TECHNICAL MANUAL

AVIATION-CREW SYSTEMS

SEAT SURVIVAL KITS

(OXYGEN HOSES AND NON-SKU-SERIES SEAT KITS)

N68936-04-D-0008

This change incorporates IRACs 10 thru 12.

This manual update includes Basic, dated 1 December 1997, thru Change 9, dated 1 August 2004.

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LIST OF EFFECTIVE PAGES

Insert latest changed pages; dispose of superseded pages in accordance with applicable regulations.

NOTE: On a changed page, the portion of the text affected by the latest change is indicated by a vertical line, or other change symbol, in the outer margin of the page. Changes to illustrations are indicated by miniature pointing hands. Changes to wiring diagrams are indicated by shaded areas.

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(Incorp IRACs 10 and 12)
(IRAC 11 cancelled)

Total number of pages in this volume is 796 consisting of the following:

Page No.	#Change No.	Page No.	#Change No.	Page No.	#Change No.
Title	9	3-25	5	5-14 — 5-30	0
A — C	9	3-26 Blank	5	5-31 — 5-33	9
i — viii	9	3A-1 — 3A-18	7	5-34 — 5-36	0
ix	0	4-1 — 4-2	0	5-37	3
x	7	4-3	3	5-38	0
xA	7	4-4 — 4-5	9	5-39	4
xB Blank	7	4-6 — 4-7	5	5-40	5
xi — xii	0	4-8	9	5-41 — 5-43	0
xiii	6	4-9	5	5-44	6
xiv	0	4-10 — 4-12	0	5-45 — 5-46	0
xv	7	4-13	4	5-47	6
xvi	0	4-14 — 4-18	0	5-48	0
1-1 — 1-3	8	4-19 — 4-20	3	5-49	6
1-4 Blank	8	4-21	0	5-50	0
2-1 — 2-5	9	4-22	9	5-51	4
2-6 Blank	9	4-23 — 4-25	0	5-52	6
3-1	5	4-26 — 4-27	6	5-53 — 5-56	0
3-2 — 3-3	0	4-28 — 4-33	3	5-57 — 5-60	6
3-4	3	4-34	4	6-1	3
3-5	5	4-35 — 4-37	3	6-2 — 6-3	0
3-6 — 3-11	0	4-38	6	6-4	3
3-12	1	5-1	3	6-5	0
3-13 — 3-16	0	5-2 — 5-5	0	6-6	5
3-17 — 3-18	7	5-6 — 5-7	3	6-7 — 6-9	0
3-19	0	5-8 — 5-11	0	6-10	8
3-20 — 3-21	5	5-12	8	6-11 — 6-18	0
3-22 — 3-24	0	5-13	5	6-19	9

Major changes resulting from this change are as follows:

1. Miscellaneous changes.
2. Incorporation of IRAC 10 (to establish procedures for serializing lower oxygen regulator hose assemblies, and seat survival kit oxygen hose assemblies (RSSK and SKU) that have been designated critical safety items).
3. Incorporation of IRAC 12 (to clarify documentation procedures for tracking and serialization purposes on oxygen regulator hose assemblies and seat survival kit oxygen hose assemblies (RSSK and SKU) that have been designated critcal safety items, and to provide the ability to document maintenance actions/inspections and technical directive compliance requirements issued against all oxygen hoses).

Zero in this column indicates an original page.

LIST OF EFFECTIVE PAGES (CONT)

Page No.	#Change No.
6-20	0
6-21	3
6-22	5
6-23 — 6-24	0
6-25	6
6-26 — 6-29	0
6-30 — 6-32	6
7-1	3
7-2 — 7-5	0
7-6	3
7-7 — 7-9	0
7-10	5
7-11 — 7-26	0
7-27	3
7-28 — 7-29	0
7-30 — 7-31	9
7-32	5
7-33 — 7-35	0
7-36	3
7-37 — 7-38	0
7-39	4
7-40	6
7-41	0
7-42	6
7-43 — 7-44	0
7-45 — 7-46	4
7-47 — 7-49	0
7-50	5
7-51 — 7-60	0
7-61	6
7-62 Blank	6
7-63 — 7-66 Deleted	6
7-67	6
7-68 — 7-70	3
7-71	0
7-72	5
7-73	4
7-74	0
7-75 — 7-76	0
7-77 — 7-79	5
7-80	3
7-81	0
7-82 — 7-86	6
7-87	0
7-88 — 7-90	6
7-91 — 7-93	0
7-94 — 7-95	6
7-96 — 7-112	0
7-113 — 7-115	4
7-116 — 7-122	0
7-123	6
7-124 — 7-142	0
7-143 — 7-145	4
7-146 — 7-164	0
7-165	4
7-166	0
7-167	4
7-168	0
7-169	6
7-170 — 7-185	0
7-186 — 7-188	4
7-189 — 7-195	0
7-196	6
7-197 — 7-198	0
7-199	4
7-200	0
7-201	6
7-202 — 7-206	0
7-207	4
7-208	0
7-209	6
7-210	0
7-211	4
7-212 Blank	4
8-1 — 8-2	3
8-3	0
8-4	6
8-5 — 8-7	0
8-8	5
8-9 — 8-22	0
8-23	3
8-24	6
8-25	0
8-26	8
8-27	9
8-28 — 8-29	0
8-30	3
8-31	0
8-32	4
8-33 — 8-34	5
8-35 — 8-36	0
8-37	8
8-38 — 8-39	3
8-40 — 8-41	0
8-42 — 8-43	6
8-44 — 8-45	0
8-46	3
8-47	0
8-48 — 8-49	3
8-50	4
8-51	5
8-52	4
8-53	0
8-54	4
8-55	5
8-56	4
8-57 — 8-59	0
8-60 — 8-62	5
9-1	3
9-2	0
9-3	3
9-4	0
9-5	6
9-6	3
9-7 — 9-8	0
9-9	5
9-10 — 9-25	0
9-26 — 9-29	3
9-30	9
9-31 — 9-32	0
9-33	9
9-34 — 9-35	0
9-36	3
9-37	0
9-38	4
9-39	5
9-40	0
9-41	6
9-42	0
9-43	6
9-44 — 9-60	0
9-61	6
9-62	8
9-63 — 9-68 Deleted	6
9-69 — 9-70	0
9-71 — 9-72	6
9-73 — 9-74	0
9-75 — 9-76	6
9-77	0
9-78	6
9-79	9
9-80	6
9-81	9
9-82 — 9-96	0
9-97	6
9-98	9
9-99	4
9-100	0
9-101 — 9-102	4
9-103	0
9-104	4
9-105 — 9-116	0
9-117	6
9-118 — 9-130	0
9-131	6
9-132	4
9-133	9
9-134	4
9-135 — 9-140	0
9-141 — 9-142	9
9-143	6
9-144 — 9-145	0
9-146	4
9-147	6
9-148	0
9-149	6
9-150	4
10-1	3
10-2	0
10-3	3
10-4	0

Zero in this column indicates an original page.

LIST OF EFFECTIVE PAGES (CONT)

Page No.	#Change No.
10-5	6
10-6	3
10-7 — 10-8	0
10-9	5
10-10 — 10-26	0
10-27 — 10-30	3
10-31	9
10-32 — 10-33	0
10-34	9
10-35 — 10-36	0
10-37	3
10-38	0
10-39	4
10-40 — 10-42	0
10-43	6
10-44 — 10-49	0
10-50	5
10-51	0
10-52	6
10-53 — 10-60	0
10-61	6
10-62 Blank	6
10-63 — 10-66 Deleted	6
10-67	8
10-68	0
10-69	5
10-70 — 10-73	0
10-74 — 10-75	5
10-76	0
10-77 — 10-78	6
10-79 — 10-80	0
10-81	6
10-82	0
10-83	6
10-84	9
10-85 —10-87	0
10-88	9
10-89 — 10-91	0
10-92	9
10-93	5
10-94	6
10-95	5
10-96 — 10-97	4
10-98 — 10-111	0
10-112	6
10-113	0
10-114 — 10-115	4
10-116 — 10-125	0
10-126 — 10-128	9
10-129 — 10-130	0
10-131	5
10-132 Blank	5
A-1	0
A-2 Blank	0
B-1	0
B-2 Blank	0
C-1 — C-15	0
C-16 Blank	0
Glossary-1	0
Glossary-2	8
Glossary-3 — Glossary-6	0
Glossary-7	6
Glossary-8	8
Glossary-9	0
Glossary-10 Blank	0
Index-1	9
Index-2 — Index-8	7
Index-9 — Index-11	9
Index-12 — Index-18	7

Zero in this column indicates an original page.

TABLE OF CONTENTS

Chapter			Page
1	INTRODUCTION		
	1-1.	General	1-1
	1-7.	Description of NAVAIR 13-1-6.3-1	1-2
	1-20.	Allowance Listing of Seat Survival Kits	1-3
	1-22.	Levels of Maintenance	1-3
	1-24.	Supplementary Publications	1-3
2	MAINTENANCE CONCEPTS, SCHEDULING, AND DOCUMENTATION		
		(Section 2-1. Maintenance Concepts)	
	2-1.	General	2-1
		(Section 2-2. Maintenance Scheduling)	
	2-5.	General	2-1
		(Section 2-2A. Accident Evaluation)	
	2-6A.	Aircraft Accident Report Inspection	2-1
		(Section 2-3. Maintenance Documents)	
	2-7.	General	2-2
		(Section 2-4. Illustrated Parts Breakdown Information)	
	2-10.	General	2-2
	2-13.	Group Assembly Parts List	2-2
	2-22.	Numerical Index	2-3
3	SKK-9 LIFERAFT AND SURVIVAL KIT CONTAINER ASSEMBLY		
		(Section 3-1. Description)	
	3-1.	General	3-1
	3-3.	Configuration	3-1
	3-6.	Reference Numbers, Items and Supply Data	3-1
	3-8.	Application	3-1
	3-10.	Function	3-1
		(Section 3-2. Modifications)	
	3-12.	General	3-4
		(Section 3-3. Rigging and Packing)	
	3-14.	General	3-4
	3-16.	Rigging and Packing Procedures	3-4
		(Section 3-4. Turnaround/Daily/Preflight/Postflight/Transfer/ Special/Conditional Inspection)	
	3-22.	General	3-16

TABLE OF CONTENTS (Cont)

Chapter Page

(Section 3-5. Acceptance/Phased/SDLM Inspection)

3-26. General 3-16

(Section 3-6. Maintenance)

3-29. General 3-17

(Section 3-7. Fabrication)

3-35. General 3-18

(Section 3-8. Illustrated Parts Breakdown)

3-39. General 3-19

3A SRU-41/P22P-20 SURVIVAL EQUIPMENT KIT BAG ASSEMBLY

(Section 3A-1. Description)

3A-1. General 3A-1
3A-3. Configuration 3A-1
3A-6. Reference Numbers, Items and Supply Data 3A-1
3A-8. Application 3A-1
3A-10. Function 3A-1

(Section 3A-2. Modifications)

3A-12. General 3A-6

(Section 3A-3. Rigging and Packing)

3A-14. General 3A-6
3A-16. Survival Equipment Bag Rigging, Packing and Closure 3A-6

(Section 3A-4. Inspection)

3A-19. General 3A-11
3A-21. Inspection Procedures 3A-11

(Section 3A-5. Maintenance)

3A-34. General 3A-13
3A-36. Disassembly 3A-13
3A-38. Cleaning 3A-14
3A-40. Installation of Survival Equipment 3A-14
3A-41. Repair and Replacement 3A-14

(Section 3A-6. Fabrication)

3A-44. General 3A-15
3A-46. Fabrication Procedures 3A-15

(Section 3A-7. Illustrated Parts Breakdown (IPB))

3A-48. General 3A-16

TABLE OF CONTENTS (Cont)

Chapter Page

4 REGULATOR AND SEAT SURVIVAL KIT OXYGEN HOSE ASSEMBLIES

(Section 4-1. Description)

4-1. General 4-1
4-3. Configuration 4-1
4-7. Reference Numbers, Items and Supply Data 4-1
4-9. Application 4-1
4-11. Function 4-4

(Section 4-2. Modifications)

4-13. General 4-4

(Section 4-3. Rigging)

4-15. General 4-4
4-18. Rigging Procedures 4-4

(Section 4-4. Turnaround/Daily/Preflight/Postflight/Transfer/ Special/Conditional Inspection)

4-21. General 4-4

(Section 4-5. Acceptance/Phased/SDLM Inspection)

4-28. General 4-6

(Section 4-6. Maintenance)

4-33. General 4-9
4-35. Troubleshooting 4-9
4-37. Disassembly 4-9
4-39. Cleaning 4-10
4-41. Inspection of Disassembly Parts 4-10
4-43. Repair and Replacement 4-10
4-52. Assembly 4-21
4-55. (S-3A A/C Only) Installation of the 32-Inch Electrical Cable Assembly CX-13017/AR 4-23

(Section 4-7. Fabrication)

4-57. General 4-24

(Section 4-8. Illustrated Parts Breakdown)

4-59. General 4-24

5 SEAT PANS/SOFT PACK SURVIVAL KITS

(Section 5-1. Description)

5-1. General 5-1
5-4. Configuration 5-1
5-9. Reference Numbers, Items and Supply Data 5-1
5-11. Application 5-5

TABLE OF CONTENTS (Cont)

Chapter			Page
	5-13.	Function	5-5
		(Section 5-2. Modifications)	
	5-15.	General	5-6
		(Section 5-3. Rigging and Packing)	
	5-17.	General	5-6
	5-19.	Rigging and Packing Procedures	5-6
		(Section 5-4. Turnaround/Daily/Preflight/Postflight/Transfer/ Special/Conditional Inspection)	
	5-32.	General	5-30
		(Section 5-5. Acceptance/Phased/SDLM/PDM Inspection)	
	5-39.	General	5-31
		(Section 5-6. Maintenance)	
	5-46.	General	5-40
	5-48.	Troubleshooting	5-40
	5-50.	Disassembly	5-40
	5-52.	Cleaning	5-40
	5-55.	Inspection of Disassembled Parts	5-41
	5-57.	Repair and Replacement	5-43
	5-61.	Assembly	5-43
	5-65.	Adjustment	5-46
		(Section 5-7. Fabrication)	
	5-67.	General	5-47
		(Section 5-8. Illustrated Parts Breakdown)	
	5-71.	General	5-48
6	VENTILATED SEAT PAN		
		(Section 6-1. Description)	
	6-1.	General	6-1
	6-4.	Configuration	6-1
	6-7.	Reference Numbers, Items and Supply Data	6-1
	6-9.	Application	6-1
	6-11.	Function	6-1
		(Section 6-2. Modifications)	
	6-15.	General	6-4
		(Section 6-3. Rigging and Packing)	
	6-17.	General	6-4

TABLE OF CONTENTS (Cont)

Chapter			Page
	6-19.	Rigging and Packing Procedures	6-4
		(Section 6-4. Turnaround/Daily/Preflight/Postflight/Transfer/ Special/Conditional Inspection)	
	6-26.	General	6-18
		(Section 6-5. Acceptance/Phased/SDLM/PDM Inspection)	
	6-32.	General	6-19
		(Section 6-6. Maintenance)	
	6-37.	General	6-22
	6-39.	Troubleshooting	6-22
	6-41.	Disassembly	6-22
	6-43.	Cleaning	6-22
	6-46.	Inspection	6-23
	6-48.	Repair and Replacement	6-24
		(Section 6-7. Fabrication)	
	6-50	General	6-24
		(Section 6-8. Illustrated Parts Breakdown)	
	6-54.	General	6-26
7	RIGID SEAT SURVIVAL KIT-1 AND 1A		
		(Section 7-1. Description)	
	7-1.	General	7-1
	7-3.	Configuration	7-1
	7-7.	Reference Numbers, Items, and Supply Data	7-4
	7-9.	Application	7-4
	7-11.	Function	7-4
		(Section 7-2. Modifications)	
	7-13.	General	7-5
		(Section 7-3. Rigging and Packing)	
	7-15.	General	7-6
	7-17.	Rigging and Packing Procedures	7-6
		(Section 7-4. Turnaround/Daily/Preflight/Postflight/Transfer/ Special/Conditional Inspection)	
	7-28.	General	7-29
		(Section 7-5. Acceptance/Phased/SDLM/PDM Inspection)	
	7-35.	General	7-30

TABLE OF CONTENTS (Cont)

Chapter Page

(Section 7-6. Maintenance)

7-41. General 7-39
7-43. Troubleshooting 7-39
7-45. Disassembly 7-39
7-48. Cleaning 7-50
7-51. Inspection of Disassembled Parts 7-51
7-53. Repair and Replacement 7-51
7-60. Assembly 7-67
7-72. Adjustments 7-82
7-79. Electrical Check 7-87

(Section 7-7. Fabrication)

7-81. General 7-88

(Section 7-8. Illustrated Parts Breakdown)

7-90. General 7-92

8 RIGID SEAT SURVIVAL KIT-3

(Section 8-1. Description)

8-1. General 8-1
8-3. Configuration 8-1
8-8. Reference Numbers, Items, and Supply Data 8-1
8-10. Application 8-1
8-12. Function 8-3

(Section 8-2. Modifications)

8-14. General 8-4

(Section 8-3. Rigging and Packing)

8-16. General 8-4
8-18. Rigging and Packing Procedures 8-4

(Section 8-4. Turnaround/Daily/Preflight/Postflight/Transfer/ Special/Conditional Inspection)

8-29. General 8-26

(Section 8-5. Acceptance/Phased/SDLM/PDM Inspection)

8-36. General 8-27

(Section 8-6. Maintenance)

8-41. General 8-33
8-43. Troubleshooting 8-33
8-45. Disassembly 8-33
8-47. Cleaning 8-33
8-50. Inspection of Disassembled Parts 8-37
8-52. Repair and Replacement 8-37

TABLE OF CONTENTS (Cont)

Chapter			Page
	8-56.	Assembly	8-37
	8-60.	Adjustment	8-40
		(Section 8-7. Fabrication)	
	8-64.	General	8-42
		(Section 8-8. Illustrated Parts Breakdown)	
	8-71.	General	8-45
9		RIGID SEAT SURVIVAL KIT-8 SERIES (ROCKET JET AND SCOTT)	
		(Section 9-1. Description)	
	9-1.	General	9-1
	9-3.	Configuration	9-1
	9-7.	Reference Numbers, Items, and Supply Data	9-3
	9-9.	Application	9-3
	9-11.	Function	9-3
		(Section 9-2. Modifications)	
	9-13.	General	9-4
		(Section 9-3. Rigging and Packing)	
	9-15.	General	9-5
	9-17.	Rigging and Packing Procedures	9-5
		(Section 9-4. Turnaround/Daily/Preflight/Postflight/Transfer/ Special/Conditional Inspection)	
	9-29.	General	9-29
		(Section 9-5. Acceptance/Phased/SDLM/PDM Inspection)	
	9-36.	General	9-30
		(Section 9-6. Maintenance)	
	9-43.	General	9-39
	9-45.	Troubleshooting	9-39
	9-47.	Disassembly	9-39
	9-50.	Cleaning	9-39
	9-53.	Inspection	9-42
	9-57.	Repair and Replacement	9-48
	9-66.	Assembly	9-62
	9-69.	Adjustments	9-71
		(Section 9-7. Fabrication)	
	9-75.	General	9-75

TABLE OF CONTENTS (Cont)

Chapter Page

(Section 9-8. Illustrated Parts Breakdown)

9-85. General 9-79

10 RIGID SEAT SURVIVAL KIT-8 SERIES (EAST/WEST)

(Section 10-1. Description)

10-1. General 10-1
10-3. Configuration 10-1
10-7. Reference Numbers, Items and Supply Data 10-3
10-9. Application 10-3
10-11. Function 10-3

(Section 10-2. Modifications)

10-13. General 10-4

(Section 10-3. Rigging and Packing)

10-15. General 10-5
10-17. Rigging and Packing Procedures 10-5

(Section 10-4. Turnaround/Daily/Preflight/Postflight/Transfer/ Special/Conditional Inspection)

10-29. General 10-30

(Section 10-5. Acceptance/Phased/SDLM/PDM Inspection)

10-36. General 10-31

(Section 10-6. Maintenance)

10-43. General 10-40
10-45. Troubleshooting 10-40
10-47. Disassembly 10-40
10-50. Cleaning 10-50
10-53. Inspection 10-51
10-56. Repair and Replacement 10-51
10-63. Assembly 10-67
10-66. Adjustment 10-76

(Section 10-7. Fabrication)

10-72. General 10-80

(Section 10-8. Illustrated Parts Breakdown)

10-82. General 10-85

TABLE OF CONTENTS (Cont)

Chapter		Page
Appendix A	Reserved	A-1
Appendix B	Torquing of Flared Tube and Pipe Connections	B-1
Appendix C	The Metric System and Metric Unit Conversion Charts	C-1
Glossary		Glossary-1
Alphabetical Index		Index-1

LIST OF ILLUSTRATIONS

Figure	Title	Page
3-1.	A/P22P-11 Crew Backpack Assembly	3-2
3-2.	SKK-9 Liferaft and Survival Kit Container Assembly	3-3
3-3.	SKK-9 Subassemblies	3-3
3-4.	Binding Survival Items	3-10
3-5.	Lanyard Rigging	3-14
3-6.	Lanyard Assembly	3-18
3-7.	SKK-9 Survival Kit and Liferaft Container Assembly	3-20
3-8.	SKK-9 Container Subassembly	3-22
3A-1.	A/P22P-20 Crew Backpack Assembly	3A-2
3A-2.	SRU-41/P22P-20 Liferaft and Survival Kit Bag	3A-3
3A-3.	SRU-41/P22P-20 Survival Equipment Compartment	3A-4
3A-4.	LRU-29/P22P-20 Liferaft	3A-5
3A-5.	Liferaft Lanyard	3A-15
3A-6.	SRU-41/P22P-20 Liferaft and Survival Kit Bag Assembly	3A-17
4-1.	Oxygen Hose Assemblies Configuration (Typical)	4-2
4-2.	Oxygen Regulator Hose Assembly (Typical. Used for Liquid Oxygen Only)	4-3
4-3.	Oxygen Regulator Hose Assembly (Typical. Used for OBOGS Only)	4-3
4-4.	RSSK-3 Electrical Schematic	4-7
4-5.	RSSK-8 Series, SKU-2/A and SKU-12/A Electrical Schematic	4-7
4-6.	SKU-7/A, SKU-10/A and SKU-11/A Electrical Schematic	4-8
4-7.	SKU-3/A and SKU-6/A Electrical Schematic	4-8
4-8.	Douglas Seat Pan Electrical Schematic	4-8
4-9.	RSSK-1 and RSSK-1/A Electrical Schematic	4-8
4-10.	Oxygen Hose Assembly Insulation Sleeving Installation	4-19
4-11.	Oxygen Hose Assembly/Low Pressure Manifold Connection	4-22
4-12.	Installation of 32-inch Electrical Cable Assembly (for S-3A Aircraft Application)	4-23
4-13.	Douglas Seat Pan Oxygen Hose Assembly	4-25
4-14.	SP-1A Oxygen Hose Assembly	4-27
4-15.	RSSK-1 and RSSK-1/A Oxygen Hose Assemblies	4-28
4-16.	RSSK-3 Oxygen Hose Assembly	4-29
4-17.	RSSK-8 Series Oxygen Hose Assembly	4-30
4-18.	SKU-2/A and SKU-12/A Oxygen Hose Assemblies	4-31
4-19.	SKU-3/A Oxygen Hose Assembly	4-33
4-20.	Deleted	
4-21.	SKU-6/A Oxygen Hose Assembly	4-35
4-22.	SKU-7/A, SKU-10/A and SKU-11/A Oxygen Hose Assemblies	4-36
5-1.	Douglas Seat Pan (Top)	5-2
5-2.	Douglas Seat Pan (Bottom)	5-2
5-3.	SP-1A Seat Pan	5-3
5-4.	Standard Soft Pack	5-3
5-5.	Special Soft Pack	5-4
5-6.	High Speed Soft Pack	5-4
5-7.	(Douglas) Oxygen Schematic	5-5
5-8.	(SP-1A) Oxygen Schematic	5-5
5-9.	Binding Survival Items	5-18
5-10.	Folding Liferaft for Standard, Special and High Speed Soft Pack	5-20
5-11.	Folding Liferaft for Modified High Speed Soft Pack	5-26

LIST OF ILLUSTRATIONS (Cont)

Figure	Title	Page
5-12.	Test Stand Model 59A120	5-34
5-13.	Seat Pan Assembly Hook Repair	5-43
5-14.	Pressure Regulator	5-44
5-15.	Pressure Regulator Yokes	5-45
5-16.	Oxygen Check Valve Assembly	5-46
5-17.	Douglas Seat Pan	5-49

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LIST OF ILLUSTRATIONS (Cont)

Figure	Title	Page
5-18.	Douglas Pressure Regulator	5-53
5-19.	SP-1A Seat Pan Assembly	5-56
5-20.	SP-1A Emergency Oxygen Bottle	5-57
6-1.	Ventilated Seat Pan	6-2
6-2.	Standard Soft Pack	6-2
6-3.	Seat Cushion, Pan, and Emergency Oxygen Bottle	6-3
6-4.	Binding Survival Items	6-11
6-5.	Folding Liferaft	6-13
6-6.	Reeving Retaining Strap	6-17
6-7.	Ventilated Seat Pan and Standard Soft Pack Assembly	6-27
6-8.	Emergency Oxygen Bottle	6-30
7-1.	RSSK-1 Closed	7-2
7-2.	RSSK-1 Open	7-2
7-3.	RSSK-1A Closed	7-3
7-4.	RSSK-1A Open	7-3
7-5.	Oxygen Schematic	7-4
7-6.	Binding Survival Items	7-15
7-7.	Stowed Survival Equipment	7-16
7-8.	Stowage of Dropline	7-20
7-9.	Folding Liferaft	7-21
7-10.	Test Stand Model 59A120	7-33
7-11.	Reducer/Manifold Assembly (East/West)	7-46
7-12.	Emergency Oxygen Pressure Reducer Tool Set	7-47
7-13.	Lower Block Assembly	7-69
7-14.	(Rocket Jet, Scott Only) Reducer/Manifold Assembly Test	7-71
7-15.	Reducer/Manifold Assembly (East/West)	7-73
7-16.	Emergency Oxygen Pressure Reducer Tool Set	7-74
7-17.	Reducer/Manifold Assembly P/N 741370 Cable Routing	7-83
7-18.	Reducer/Manifold Assembly P/N 741370-1 Cable Routing	7-83
7-19.	Adjustable Relief Valve (Typical)	7-87
7-20.	Electrical Schematic (Blocks)	7-87
7-21.	Toggle Reset Tool	7-88
7-22.	Dropline	7-89
7-23.	Boot	7-90
7-24.	Rigid Seat Survival Kit-1A (Rocket Jet)	7-93
7-25.	Lower Container Assembly and Handle Assembly (Rocket Jet)	7-96
7-26.	Upper Container Assembly (Rocket Jet)	7-100
7-27.	Upper Block Assembly (Rocket Jet)	7-104
7-28.	Lower Block Assembly (Rocket Jet)	7-107
7-29.	Intermediate Block Assembly (Rocket Jet)	7-110
7-30.	Reducer/Manifold Assembly (Rocket Jet)	7-113
7-31.	Left-Hand, Center and Right-Hand Cable Assemblies (Rocket Jet)	7-116
7-32.	Cable Release Assembly (Rocket Jet)	7-118
7-33.	Lid Lock Assemblies (Rocket Jet)	7-120
7-34.	Rigid Seat Survival Kit-1A (Scott)	7-122
7-35.	Lower Container Assembly (Scott)	7-125
7-36.	Upper Container Assembly (Scott)	7-129

LIST OF ILLUSTRATIONS (Cont)

Figure	Title	Page
7-37.	Upper Block Assembly (Scott)	7-134
7-38.	Lower Block Assembly (Scott)	7-137
7-39.	Intermediate Block Assembly (Scott)	7-140
7-40.	Reducer/Manifold Assembly (Scott)	7-143
7-41.	Rigid Seat Survival Kit-1 (Scott)	7-146
7-42.	Lower Container Assembly-1 (Scott)	7-149
7-43.	Upper Container Assembly-1 (Scott)	7-152
7-44.	Upper Block Assembly-1 (Scott)	7-156
7-45.	Lower Block Assembly-1 (Scott)	7-159
7-46.	Intermediate Block Assembly-1 (Scott)	7-162
7-47.	Reducer/Manifold Assembly-1 (Scott)	7-165
7-48.	Rigid Seat Survival Kit-1A (East/West)	7-168
7-49.	Upper Block Assembly (East/West)	7-171
7-50.	Lower Block Assembly (East/West)	7-174
7-51.	Upper Container Assembly (East/West) (Sheet 1 of 2)	7-177
7-51.	Upper Container Assembly (East/West) (Sheet 2 of 2)	7-178
7-52.	Intermediate Block Assembly (East/West)	7-183
7-53.	Reducer/Manifold Assembly (East/West)	7-186
7-54.	Lower Container Assembly (East/West)	7-189
7-55.	Lid Lock Release Assembly (East/West)	7-194
8-1.	RSSK-3 Closed	8-2
8-2.	RSSK-3 Open	8-2
8-3.	Composite Disconnect	8-3
8-4.	Oxygen Schematic	8-3
8-5.	Binding Survival Items	8-12
8-6.	(Equipment Container P/N 68A77D4-1) Stowed Survival Equipment	8-14
8-7.	Attachment of Equipment Container to Dropline	8-15
8-8.	Stowage of Dropline	8-19
8-9.	Folding Liferaft	8-21
8-10.	Test Stand Model 59A120	8-29
8-11.	Resetting (Pioneer Central)	8-40
8-12.	Resetting (Firewel)	8-40
8-13.	Relief Valve	8-41
8-14.	Dropline	8-43
8-15.	Boot	8-44
8-16.	Rigid Seat Survival Kit-3	8-46
8-17.	Emergency Oxygen System, Part No. 29604-A1 and 29604-A2A	8-50
8-18.	Cam and Cable Assembly, Part No. 1607326-1	8-53
8-19.	Emergency Oxygen System P/N F1513000-1/-5/-7/-9	8-54
8-20.	Emergency Oxygen Reducer and Actuator Assembly	8-57
9-1.	RSSK-8 Closed	9-2
9-2.	RSSK-8 Open	9-2
9-3.	Emergency Oxygen Schematic	9-4
9-4.	Binding Survival Items	9-13
9-5.	Stowed Survival Equipment	9-14
9-6.	Stowage of Dropline	9-18
9-7.	Folding Liferaft	9-20

LIST OF ILLUSTRATIONS (Cont)

Figure	Title	Page
9-8.	Test Stand Model 59A120	9-34
9-9.	Reducer, Manifold and Tube Assembly Test	9-69
9-10.	Lock Slide and Lid Latch Engagement	9-71
9-11.	Lock Slide Adjustment	9-71
9-12.	Relief Valve (Typical)	9-72
9-13.	Adjustment of Actuator	9-74
9-14.	Toggle Reset Tool	9-75
9-15.	Dropline	9-76
9-16.	Boot	9-77
9-17.	Guide Bracket Gage	9-77
9-18.	Rigid Seat Survival Kit-8A (Rocket Jet P/N CL223D999-1 and CL223D999-2)	9-80
9-19.	Lower Container Assembly (Rocket Jet P/N 283100-7) and Handle Assembly (Rocket Jet P/N 347170-1) (Sheet 1 of 2)	9-82
9-19.	Lower Container Assembly (Rocket Jet P/N 283100-7) and Handle Assembly (Rocket Jet P/N 347170-1) (Sheet 2 of 2)	9-83
9-20.	Lower Container Assembly (Rocket Jet P/N 283100-17) and Handle Assembly (Rocket Jet P/N 7110015) (Sheet 1 of 2)	9-88
9-20.	Lower Container Assembly (Rocket Jet P/N 283100-17) and Handle Assembly (Rocket Jet P/N 7110015) (Sheet 2 of 2)	9-89
9-21.	Upper Container Assembly (Rocket Jet P/N 283200-7 and 283200-17) (Sheet 1 of 2)	9-93
9-21.	Upper Container Assembly (Rocket Jet P/N 283200-7 and 283200-17) (Sheet 2 of 2)	9-94
9-22.	Reducer and Tube Assembly (Rocket Jet P/N 283650-7)	9-99
9-23.	Reducer and Tube Assembly (Rocket Jet P/N 283650-9)	9-102
9-24.	Release Assembly (Rocket Jet)	9-105
9-25.	Grip and Release Assembly and Lanyard Assembly (Rocket Jet) (Sheet 1 of 2)	9-107
9-25.	Grip and Release Assembly and Lanyard Assembly (Rocket Jet) (Sheet 2 of 2)	9-108
9-26.	Multi-Release Assembly (Rocket Jet P/N 283500)	9-111
9-27.	Multi-Release Assembly (Rocket Jet P/N 365705-1)	9-112
9-28.	Lid Lock Assemblies (Rocket Jet) (For 283000-7)	9-114
9-29.	Lid Lock Assemblies (Rocket Jet) (For 283000-17)	9-115
9-30.	Rigid Seat Survival Kit -8A/8A-1 (Scott)	9-116
9-31.	Lower Container Assembly (Scott) (Sheet 1 of 2)	9-119
9-31.	Lower Container Assembly (Scott) (Sheet 2 of 2)	9-120
9-32.	Lid Lock Multi-Release Actuator Assembly (Scott)	9-124
9-33.	Upper Container Assembly (Scott) (Sheet 1 of 3)	9-126
9-33.	Upper Container Assembly (Scott) (Sheet 2 of 3)	9-127
9-33.	Upper Container Assembly (Scott) (Sheet 3 of 3)	9-128
9-34.	Emergency O_2 Actuator Assembly (Scott) (Sheet 1 of 2)	9-135
9-34.	Emergency O_2 Actuator Assembly (Scott) (Sheet 2 of 2)	9-136
9-35.	Pressure Reducer Assembly (Scott)	9-138
10-1.	RSSK-8 Closed	10-2
10-2.	RSSK-8 Open	10-2
10-3.	Emergency Oxygen System	10-4
10-4.	Binding Survival Items	10-13
10-5.	Stowed Survival Equipment	10-14

LIST OF ILLUSTRATIONS (Cont)

Figure	Title	Page
10-6.	Stowage of Dropline	10-18
10-7.	Folding Liferaft	10-20
10-8.	Test Stand Model 59A120	10-35
10-9.	Reducer Assembly (RSSK-8E)	10-41
10-10.	Emergency Oxygen Pressure Reducer Tool Set	10-46
10-11.	Reducer Assembly (RSSK-8E)	10-68
10-12.	Emergency Oxygen Pressure Tool Set	10-70
10-13.	(RSSK-8E Only) Adjustable Pressure Reducer	10-77
10-14.	Adjustable Relief Valve (Typical)	10-79
10-15.	Toggle Reset Tool	10-80
10-16.	Dropline	10-81
10-17.	Boot	10-83
10-18.	Guide Bracket Gauge	10-83
10-19.	Survival Kit Assembly (RSSK-8D)	10-86
10-20.	Upper Container Assembly (RSSK-8D) (Sheet 1 of 2)	10-89
10-20.	Upper Container Assembly (RSSK-8D) (Sheet 2 of 2)	10-90
10-21.	Oxygen Supply Assembly (RSSK-8D)	10-96
10-22.	Lower Container Assembly (RSSK-8D) (Sheet 1 of 3)	10-98
10-22.	Lower Container Assembly (RSSK-8D) (Sheet 2 of 3)	10-99
10-22.	Lower Container Assembly (RSSK-8D) (Sheet 3 of 3)	10-100
10-23.	Lid Lock Release Assembly (RSSK-8D)	10-104
10-24.	Survival Kit Assembly (RSSK-8E)	10-106
10-25.	Upper Container Assembly (RSSK-8E) (Sheet 1 of 2)	10-108
10-25.	Upper Container Assembly (RSSK-8E) (Sheet 2 of 2)	10-109
10-26.	Oxygen Supply Assembly (RSSK-8E)	10-114
10-27.	Pressure Reducer Assembly (RSSK-8E)	10-116
10-28.	Lower Container Assembly (RSSK-8E) (Sheet 1 of 3)	10-118
10-28.	Lower Container Assembly (RSSK-8E) (Sheet 2 of 3)	10-119
10-28.	Lower Container Assembly (RSSK-8E) (Sheet 3 of 3)	10-120
10-29.	Lid Lock Release Assembly (RSSK-8E)	10-124

LIST OF TABLES

Table	Title	Page
2-1.	Source, Maintenance and Recoverability (SM&R) Code Definitions	2-4
3-1.	Survival Kit Equipment	3-5
3-2.	Nylon Cord Lengths Required for Binding	3-5
3A-1.	Survival Kit Equipment	3A-8
3A-2.	Nylon Cord Lengths Required for Binding	3A-8
4-1.	Regulator Hose Assembly Part Numbers and Application	4-3
4-2.	Inspection	4-6
4-3.	Troubleshooting	4-9
5-1.	Seat Pan/Soft Pack Survival Kit Directives	5-6
5-2.	Survival Kit Items	5-13
5-3.	Nylon Cord Lengths Required for Binding	5-14
5-4.	Charging Stages	5-39
5-5.	Ambient Air Temperature Vs Charging Pressures	5-39
5-6.	Troubleshooting	5-41
5-7.	Inspection	5-42
5-8.	Soft Pack Case/Container Markings	5-42
6-1.	Ventilated Seat Pan/Standard Soft Pack Directives	6-4
6-2.	Survival Kit Items	6-6
6-3.	Nylon Cord Lengths Required for Binding	6-7
6-4.	Charging Stages	6-21
6-5.	Ambient Air Temperature Vs Charging Pressures	6-21
6-6.	Troubleshooting	6-22
6-7.	Inspection	6-23
6-8.	Soft Pack Case/Container Markings	6-24
7-1.	RSSK-1/1A Directives	7-5
7-2.	Survival Kit Items	7-10
7-3.	Nylon Cord Lengths Required for Binding	7-11
7-4.	Charging Stages	7-38
7-5.	Ambient Air Temperature Vs Charging Pressures	7-38
7-6.	Troubleshooting (Rocket Jet and Scott Only)	7-40
7-7.	Troubleshooting (East/West Only)	7-42
7-8.	Inspection	7-52
7-9.	Repair Kits	7-56
7-10.	Lubrication	7-67
8-1.	RSSK-3 Directives	8-4
8-2.	Survival Kit Items	8-8
8-3.	Nylon Cord Lengths Required for Binding	8-9
8-4.	Charging Stages	8-32
8-5.	Ambient Air Temperature Vs Charging Pressures	8-32
8-6.	Troubleshooting	8-34
8-7.	Inspection	8-38
9-1.	RSSK-8 Application	9-3
9-2.	Directives	9-4

LIST OF TABLES (Cont)

Table	Title	Page
9-3.	Repairs/Fabrications/Installations	9-5
9-4.	Survival Kit Items	9-9
9-5.	Nylon Cord Lengths Required for Binding	9-10
9-6.	Charging Stages	9-38
9-7.	Ambient Air Temperature Vs Charging Pressures	9-38
9-8.	Troubleshooting	9-40
9-9.	Inspection	9-43
9-10.	Repair Kits	9-48
10-1.	RSSK-8 Application	10-3
10-2.	Directives	10-4
10-3.	Repairs/Fabrications/Installations	10-5
10-4.	Survival Kit Items	10-9
10-5.	Nylon Cord Lengths Required for Binding	10-10
10-6.	Charging Stages	10-39
10-7.	Ambient Air Temperature Vs Charging Pressures	10-39
10-8.	Troubleshooting	10-42
10-9.	Inspection	10-52
B-1.	Torque Requirements for Flared Tube Connections	B-1
B-2.	Torque Requirements for Pipe Connections	B-1
C-1.	Symbols and Relationships of Metric Units	C-4
C-2.	International System of Units (S1)	C-5
C-3.	Fraction/Decimal/Millimeter Conversion Chart	C-6

CHAPTER 1

INTRODUCTION

1-1. GENERAL.

WARNING

Unauthorized modification to, and deviations from, prescribed life support and survival equipment by individual crewmen could create unknown safety hazards. The OPNAVINST 3710.7 Series specifies minimum requirements for such equipment and is supplemented by the individual model NATOPS.

1-2. The OPNAVINST 4790.2 Series identifies NAVAIRSYSCOM as the only authority for modification to life support and survival equipment, which is usually accomplished by the Fleet Support Team (FST) (formerly Cognizant Field Activity (CFA)) via Aircrew System Changes or a change to the equipment procurement package. This manual also permits an operating activity, with approval of the controlling custodian, to conditionally modify ONE unit of equipment in-service in order to correct or overcome unsatisfactory conditions in that equipment item. Any other type of deviation, peculiar configuration, or modification to life support and survival equipment is not allowed, and Aircrew Survival Equipmentmen have no authority or responsibility to perform them.

1-3. If an omission or conflict should occur between FST documents and NATOPS requirements, if there is a need for clarification of equipment configuration, or if equipment deficiencies are discovered, the applicable FST should be notified. The FST for Seat Survival Kits is Naval Air Warfare Center Aircraft Division (NAWCAD) Code 4.6.2.1, NAS Patuxent River, MD, 20670-1906. For parachutes and related hardware, including torso harnesses, the FST is the Naval Air Warfare Center Weapons Division, Code 463000D, China Lake, CA, 93555.

1-4. NAWCAD DET, Indianapolis, IN 46219, has cognizance over all survival radios and emergency beacons.

1-5. The Aviation-Crew Systems manual is released under the authority of the Naval Air Systems Command in compliance with the request of the Chief of Naval Operations. The instructions contained herein are mandatory. This manual consists of separately bound volumes, as listed below:

TITLE	PUBLICATION NUMBER
Inflatable Survival Equipment (Liferafts)	NAVAIR 13-1-6.1-1
Inflatable Survival Equipment (Life Preservers)	NAVAIR 13-1-6.1-2
Parachutes	NAVAIR 13-1-6.2
Seat Survival Kits (Oxygen Hoses and Non-SKU Seat Kits)	NAVAIR 13-1-6.3-1
Seat Survival Kits (SKU Series Seat Kits)	NAVAIR 13-1-6.3-2
Oxygen Equipment (Aircraft Equipment, Masks, and Other Systems)	NAVAIR 13-1-6.4-1
Oxygen Equipment (Regulators)	NAVAIR 13-1-6.4-2
Oxygen Equipment (Concentrators)	NAVAIR 13-1-6.4-3
Oxygen Equipment (Converters)	NAVAIR 13-1-6.4-4
Rescue and Survival Equipment	NAVAIR 13-1-6.5
Aircrew Personal Protective Equipment (Aircrew/Passenger Equipment)	NAVAIR 13-1-6.7-1
Aircrew Personal Protective Equipment (Clothing)	NAVAIR 13-1-6.7-2
Aircrew Personal Protective Equipment (Helmets and Masks)	NAVAIR 13-1-6.7-3
Aircrew Personal Protective Equipment (Protective Assembly, Aircrew Survival - Armor)	NAVAIR 13-1-6.7-4
Special Missions Aircrew Equipment	NAVAIR 13-1-6.10

1-6. The purpose of this volume is to provide technical information related to the configuration, application, function, inspection, and maintenance of a particular category of aircrew safety and survival equipment. The information contained in each volume is intended for Organizational, Intermediate, and Depot Levels of maintenance as established within the Naval Aviation Maintenance Program (OPNAVINST 4790.2 Series).

1-7. DESCRIPTION OF NAVAIR 13-1-6.3-1.

1-8. CONTENTS. This volume contains all information on configuration, function, application, modifications, rigging and packing, inspection and maintenance, local fabrication of tools and equipment, and Illustrated Parts Breakdown of seat survival kits (Oxygen Hoses and Non-SKU-Series Seat Kits).

1-9. CONFLICTS AND SUPERSEDURES. These volumes shall take precedence over all other documents except for effective related Aircrew System Bulletins and Changes, and Interim Aircrew System Bulletins and Changes. These documents are effective until officially rescinded, canceled, or superseded.

1-10. The modifications section of each chapter lists all effective changes which affect seat survival kits and have been issued on or before the date of latest change or revision to this volume. When applicable, the subject matter of these documents has been incorporated within the text of the appropriate chapters.

1-11. Effective changes and bulletins which effect seat survival kits and are issued between changes and revisions to this volume should be recorded in the modification section of the manual for the affected equipment by annotating the outer margin of the page with a vertical line and the number of the change or bulletin. A copy of the change or bulletin should be filed in a separate binder in the ALSS work center. When this volume is updated these documents will be listed in the modification sections of the applicable chapters and the text of the chapters will be updated to reflect the changes and bulletins.

1-12. Appendix A is reserved.

1-13. Appendix B lists torquing requirements for flared tube and pipe connections.

1-14. Appendix C lists all metric system and metric unit conversion charts.

1-15. UPDATING. These volumes will be updated periodically by the issuance of a revision, which is a 100 percent replacement of pages. Between revisions, changes and rapid action changes will be released, which are partial replacement of pages. All added and changed pages shall be incorporated in these volumes according to page number. Superseded and deleted pages shall be discarded in accordance with the local security procedures for data containing distribution statements. A list of effective pages is provided with each change. A summary of the major changed areas for a particular change or revision is located directly beneath the list of effective pages.

1-16. COMMENTS AND RECOMMENDATIONS. Comments and recommendations shall be submitted using established deficiency reporting systems in accordance with OPNAVINST 4790.2 Series.

1-17. ENGINEERING DRAWINGS. Government engineering drawings are available to the fleet by submitting a letter of request to Commanding Officer, Naval Air Technical Data and Engineering Service Command, Naval Air Station North Island, P.O. Box 357031, Building 90 Distribution, San Diego, CA 92135-7031. Each request should include the equipment nomenclature, part number, and CAGE code. The drawings will be provided in the form of aperture cards (Automatic Data Processing Punch Cards). Technical data may also be obtained online at the NATEC website located at http://www.natec.navy.mil. Authorized users must first establish an account prior to obtaining data. Access/account information can be obtained at the NATEC website.

1-18. TECHNICAL DIRECTIVES AND FORMS. NATEC is the central management activity for aeronautical technical publications, engineering drawings and associated technical services. Upon release, NATEC will forward to all designated activities, copies of Technical Directives and Forms. Additional copies are available utilizing the procedures shown in paragraph 1-14 as well as from the PMA-202 website at https://pma202.navair.navy.mil.

1-19. QUALITY ASSURANCE. Quality assurance steps are provided for critical operations. When a step is underlined, the Aircrew Survival Equipmentman shall perform the operation and then have performance verified by a Collateral Duty Inspection (CDI-CDQAR-QAR-QA) as established within the Naval Aviation Maintenance Program (OPNAVINST 4790.2 Series) prior to proceeding to the next operation. In no case shall an Aircrew Survival Equipmentman perform his/her own quality assurance inspection.

1-20. ALLOWANCE LISTING OF SEAT SURVIVAL KITS.

1-21. NAVAIR 00-35QH-2 establishes the allowance listing for seat survival kits as applicable. The allowance is generally determined by the number of crewmember seats (stations) aboard the aircraft and the specific duties required for the aircrewmember. A specific spare allowance is provided for extra flight crew requirements, assemblies down for rework, awaiting replacement units, and inspection cycle spares.

1-22. LEVELS OF MAINTENANCE.

1-23. Maintenance, inspection, repair, and overhaul shall be performed at the established level of maintenance in accordance with and as defined in OPNAVINST 4790.2 Series. In cases of necessity, such as at very small activities, Organizational and Intermediate Levels may be combined within local capabilities. It is recognized that, due to conditions other than those assumed here, minor deviations to procedures outlined in this manual may be unavoidable. Prior to forwarding to a depot facility, it shall be definitely determined that maintenance cannot be performed at a lower level.

1-24. SUPPLEMENTARY PUBLICATIONS.

1-25. In addition to Aircrew System Bulletins and Changes, and Interim Aircrew Systems Bulletins and Changes still in effect, the following publications supplement this volume.

1. NAVAIR 00-35QH-2, Allowance List, Aviation Life Support System and Airborne Operation Equipment for Aircraft Squadrons Navy and Marine Corps.

2. OPNAV INSTRUCTION 4790.2 Series. The Naval Aviation Maintenance Program.

3. OPNAVINST 4410.2A.

4. NATOPS MANUALS provide information on required Aircrew Personal Protective Equipment.

5. Naval Logistical Library (NAVSUP 600) lists directives and manuals available from Naval Publications and Forms Center.

6. P2300, Repairable Assemblies (lists repairable assemblies and applicability of Navy aviation materials).

7. P2310, Supporting Repair Parts (lists supporting repair parts of Navy aviation materials).

8. NAVAIR 13-1-6-8 Work Unit Code Manual lists work unit codes assigned to survival equipment.

9. NAVSUPINST 4423.29 Series Naval Material Command (NMC) Uniform Source, Maintenance and Recoverability (SM&R) Codes.

10. NAVAIR 01-1A-509 Cleaning and Corrosion Control Manual.

11. ASTM-D-6193 Standard Practices for Stitches and Seams.

12. NAVAIR 16-30URT33-1 Beacon Set, Radio AN/URT-33A, Organizational and Intermediate Maintenance Instructions.

13. NAVSUP P-719 is a Guide for the Assignment and Use of Source, Maintenance and Recoverability (SM&R) Codes.

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CHAPTER 2

MAINTENANCE CONCEPTS, SCHEDULING AND DOCUMENTATION

Section 2-1. Maintenance Concepts

2-1. GENERAL.

2-2. NAVAL AVIATION MAINTENANCE PROGRAM. All maintenance and inspection actions upon Aviation Life Support Systems (ALSS) equipment shall be made as part of the Naval Aviation Maintenance Program in accordance with OPNAVINST 4790.2 Series. If a seat survival kit has been opened for any type of unscheduled maintenance action, or if the condition of the kit contents is in question, it is required that the survival kit content's integrity be verified by an intermediate level or above QA representative prior to closing the survival kit. If the kit integrity is questionable, the survival kit must be repacked in accordance with the applicable chapter. If the kit is opened for maintenance other than scheduled repack, record actions performed in the local use block of OPNAVINST 4790/137 and retain repack information until next repack occurs.

2-3. LEVELS OF MAINTENANCE. Maintenance of ALSS equipment shall be performed at the established level of maintenance in accordance with OPNAVINST 4790.2 Series.

2-4. QUALIFIED PERSONNEL. Refer to OPNAVINST 4790.2 Series for qualifications of personnel authorized to perform maintenance actions on ALSS equipment.

Section 2-2. Maintenance Scheduling

2-5. GENERAL.

2-6. INSPECTION CYCLES. Scheduled maintenance requirements for aircraft and man-mounted equipment are published in the applicable aircraft maintenance requirement cards and this manual.

NOTE

To meet unusual situations and facilitate workload scheduling, refer to OPNAVINST 4790.2 Series for authorized deviations to scheduled phase inspection intervals.

Section 2-2A. Accident Evaluation

2-6A. AIRCRAFT ACCIDENT REPORT INSPECTION.

2-6B. Any Aviation Life Support System Equipment along with related subassemblies or equipment which have been recovered following use in an emergency ditching/bailout or ejection (refer to NAVAIR 13-1-6.2 for personnel and drogue parachutes) will be returned to the nearest Naval Supply Activity for shipment via traceable means to: Code 4.6.3.3, Naval Air Warfare Center Aircraft Division, Bldg 2187, 48110 Shaw Rd., Unit 5, Patuxent River, MD 20670-1906.

NOTE

Under no circumstances will any piece of Aviation Life Support System equipment which has been subjected to ditching/bailout or ejection be returned to service.

2-6C. Stencil outside of container in 1-in. letters as follows: THIS EQUIPMENT HAS BEEN USED IN AN EMERGENCY. These items of equipment are required for evaluation and determination of design deficiency and to establish requirements for product improvement.

Section 2-3. Maintenance Documents

2-7. GENERAL.

2-8. DOCUMENTING MAINTENANCE ACTIONS. Upon completion of any maintenance action (e.g., inspections, repairs, modifications), appropriate entries shall be made on applicable maintenance records, in accordance with OPNAVINST 4790.2 Series. The entries by the Aircrew Survival Equipmentman shall provide a systematic record of equipment history and the documentation of all maintenance actions performed on the equipment.

2-9. MAINTENANCE DOCUMENTS. Refer to OPNAVINST 4790.2 Series for documents used to record history or to document maintenance actions or for additional information for completion of maintenance records. These records are designed to provide continuous configuration and inspection records throughout the service life of ALSS assemblies and their components.

Section 2-4. Illustrated Parts Breakdown Information

2-10. GENERAL.

2-11. This section explains the Illustrated Parts Breakdown (IPB) for ALSS equipment. The IPB can be found at the end of each chapter where applicable. The IPB should be used during maintenance when requisitioning and identifying parts.

2-12. SYMBOLS AND ABBREVIATIONS. Symbols and abbreviations used in the Illustrated Parts Breakdown are as follows:

Symbol	Definition
---*---	Closure (end) of attaching parts
#	Selected part, only one used
x	By (used in dimensions 12 in. x 6 in.)
&	And

Abbreviation	Definition
AR or A/R	As Required
CAGE	Commercial and Government Entity
COML	Commercially available
FIG, Fig	Figure
GAPL	Group Assembly Parts List
GFE	Government Furnished Equipment
IPB	Illustrated Parts Breakdown
L.H.	Left Hand
MAINT	Maintenance
NHA	Next Higher Assembly
No.	Number
RECOVER, RECY	Recoverability
REF	Reference
R.H.	Right Hand
SM&R	Source, Maintenance and Recoverability
Spec. Cont. Dwg. or SCD	Specification Control Drawing

2-13. GROUP ASSEMBLY PARTS LIST.

2-14. The Group Assembly Parts List (GAPL) contains illustrations and parts lists for each major assembly. These illustrations and accompanying lists show how the major assemblies are disassembled into subassemblies and detail parts. Each item illustrated is indexed for identification purposes. Each illustration is accompanied by a parts list providing a part number, description, and quantity for each item. The list is arranged in disassembly order. Through the use of a system of indentation, the relationship of the detail parts to the subassemblies and the relationship of the subassemblies to the main assembly, is shown.

2-15. FIGURE AND INDEX NUMBER COLUMN. The figure and index number of each item shown on the corresponding illustration appears in the Figure and Index Number Column, with the exception of assemblies and subassemblies which are not illustrated in assembled form. In these cases, the assemblies or subassemblies are listed but not indexed. The component parts thereof are both listed and indexed.

2-16. PART NUMBER COLUMN. This column contains the contractor's drawing number, government standard number, vendor drawing number or identifies the part as being commercial hardware (COML). Government standard parts are listed using the applicable MS, AN, AF, NAF, MIL, or JAN part number. Where the part number is controlled by a military specification, this specification number is listed in the Description Column.

2-17. DESCRIPTION COLUMN. This column lists the item name plus those modifiers necessary to identify the item. The description of a vendor-supplied item includes a five-digit number which identifies the manufacturer. This is the Commercial and Government Entity (CAGE) code. To correlate this CAGE code to the manufacturer's name, refer to the cataloging handbook H4/H8. CAGE codes may be omitted for prime manufacturer's parts and for government standard parts. When applicable, contractor's control drawing numbers and reference designations of electronic parts are also listed for general reference. When a separate exploded view is used to show the detail parts of an assembly or subassembly the Description Column contains an appropriate figure cross-reference in parenthesis following the description. This cross-reference appears both in the listing where the assembly is first described, and in the listing which the assembly is broken down. In the latter case, the abbreviation REF will appear in the Units Per Assembly column. Commercial hardware items (COML) are fully described so that they may be procured from normal commercial sources. Parts stocked in kits are identified with kit component code in this column, i.e., KD.

2-18. Indentation. The indentations headed "1" through "7" in the Description Column are provided to show the relationship of assemblies and their detail parts. The detail parts are indented one space to the right and listed below the assembly to which they belong. Determine the next higher assembly (NHA) of any detail part by locating, in the next space to the left (excluding attaching parts) the first item above the detailed part.

```
1 2 3 4 5 6 7

ARTICLE (or MAIN ASSEMBLY)
. Detailed parts for ARTICLE (or MAIN ASSEMBLY)
. ASSEMBLY
    (ATTACHING PARTS)
. ATTACHING PARTS FOR ASSEMBLY
    ---*---
. . Detailed parts for ASSEMBLY
. . SUBASSEMBLY
      (ATTACHING PARTS)
. . ATTACHING PARTS FOR SUBASSEMBLY
      ---*---
. . . Detailed Parts for SUBASSEMBLY
. . . SUB-SUBASSEMBLY
        (ATTACHING PARTS)
. . . ATTACHING PARTS FOR SUB-SUBASSEMBLY
        ---*---
. . . . Detailed parts for SUB-SUBASSEMBLY
```

2-19. Attaching Parts. Attaching parts are items used to attach parts or assemblies to each other and follow immediately after the part to be attached. The attaching parts have the same indentation as the part attached. The caption "(ATTACHING PARTS)" is placed on the line immediately above the listing of attaching parts. The separation symbol ---*--- appears on the line immediately under the last attaching part. Quantities of attaching parts are listed per unit. For example, if two fittings are required for each assembly and one bolt is required to attach each fitting, the correct listing would be:

```
. FITTING ASSEMBLY, Hinge ..... 2
    (ATTACHING PARTS)
. BOLT ..... 1
    - - - * - - -
```

2-20. UNITS PER ASSEMBLY COLUMN. This column shows the quantity of an item required in the next higher assembly. The abbreviation AR indicates when the quantity is "As Required".

2-21. USABLE ON CODE COLUMN. Usable on codes are used to indicate part usage where various models and serial numbers of the equipment or similar parts within the equipment use different parts. A code is assigned to each variation of the equipment and entered into the GAPL when a part is used only in a specified variation. Where no code is entered, the part is used on all units covered by the GAPL or when no variations from the original equipment exist.

2-22. NUMERICAL INDEX.

2-23. The numerical index which follows each GAPL contains all the part numbers listed in that GAPL, arranged in alphabetical-numerical sequence.

2-24. PART NUMBER COLUMN. This column contains the part numbers of the parts and assemblies. Part number arrangement starts at the extreme left-hand position and continues left to right, one position at a time, according to the following order or precedence:

Space	(blank column)
Diagonal	(Slant)
Point	(period)
Dash	(hyphen)
Letters	A through Z
Numerals	0 through 9

NOTE

Spaces, diagonals, points, and dashes do not appear in the extreme left-hand position of the part numbers. However, they may be used in the second and succeeding positions and take precedence over letters and numbers as indicated above.

2-25. FIGURE AND INDEX NUMBER COLUMN. In this column, the digits preceding the dash refer to the figure in which the parts are illustrated. The digits following the dash are the index numbers.

2-26. SOURCE, MAINTENANCE AND RECOVERABILITY (SM&R) CODE COLUMN. The five digit SM&R codes, assigned by Naval Air Systems Command Representatives are reflected in the SM&R code column. The code format is composed of three parts consisting of a two-position Source Code, a two-position Maintenance Code and a one-position Recoverability Code. See Table 2-1 for basic information.

NOTE

For more complete information on Uniform SM&R Codes, refer to NAVSUPINST 4423.29, OPNAVINST 4410.2A, and NAVSUP P-719.

Table 2-1. Source, Maintenance, and Recoverability (SM&R) Code Definitions

SOURCE			MAINTENANCE			
1st POS	2nd POSITION		3rd POSITION		4th POSITION	
MEANS OF ACQUIRING SUPPORT			USE: LOWEST LEVEL AUTHORIZED TO REMOVE/ REPLACE THE ITEM.		REPAIR: LOWEST LEVEL WITH CAPABILITY AND RESOURCES TO PERFORM COMPLETE REPAIR ACTION.	
P	A	ITEM: STOCKED	O	ORG/UNIT	O	ORG/UNIT
	B	ITEM: STOCKED, INSURANCE				
	C	ITEM: STOCKED, DETERIORATIVE				
	D	ITEM: SUPPORT, INITIAL ISSUE OF OUTFITTING & STOCK ONLY FOR ADDITIONAL INITIAL ISSUE	2 3 4 5 6	MINESWEEPER SUBMARINES AUX/AMPHIB DESTROYER, FFG CRUISER/CARRIER	2 3 4 5 6	MINESWEEPER SUBMARINES AUX/AMPHIB DESTROYER, FFG CRUISER/CARRIER
	E	EQUIPMENT: SUPPORT, STOCKED FOR INITIAL ISSUE OR OUTFITTING OF SPECIFIED MAINTENANCE ACTIVITIES				
	F	EQUIPMENT: SUPPORT, NONSTOCKED, CENTRALLY PROCURED ON DEMAND	F	I/AFLOAT	F	I/AFLOAT
	G	ITEM: STOCKED FOR SUSTAINED SUPPORT. UNECONOMICAL TO PRODUCE AT A LATER TIME				
	H	ITEM: STOCKED, CONTAINS HAZMAT. HMIS/MSDS REPORTING REQUIRED	G	ASHORE AND AFLOAT	G	ASHORE AND AFLOAT
	R	TERMINAL OR OBSOLETE, REPLACED				
	Z	TERMINAL OR OBSOLETE, NOT REPLACED				
K	D	ITEM: DEPOT O/H & MAINTENANCE KITS	H	I/ASHORE	H	I/ASHORE
	F	ITEM: MAINTENANCE KIT, PLACE AT O, F, H, L				
	B	ITEM: IN BOTH DEPOT REPAIR AND MAINT. KITS				
M	O	MFR OR FAB AT UNIT LEVEL	K	CONTRACTOR FACILITY	K	CONTRACTOR FACILITY
	F	MFR OR FAB AT INTERMEDIATE/DS LEVEL				
	H	MFR OR FAB AT INTERMEDIATE/GS LEVEL				
	L	MFR OR FAB AT SPECIALIZED REPAIR ACTIVITY (SRA)				
	G	MFR OR FAB AT ASSEMBLED AFLOAT OR ASHORE				
	D	MFR OR FAB AT DEPOT MAINTENANCE LEVEL	L	INTERMEDIATE SRA	L	INTERMEDIATE SRA
A	O	ITEM: ASSEMBLED AT ORG/UNIT				
	F	ITEM: ASSEMBLED AT INTERMEDIATE LEVEL - AFLOAT				
	H	ITEM: ASSEMBLED AT INTERMEDIATE LEVEL - ASHORE	D	DEPOT	D	DEPOT
	L	ITEM: ASSEMBLED AT SRA				
	G	ITEM: ASSEMBLED AFLOAT OR ASHORE				
	D	ITEM: ASSEMBLED AT DEPOT MAINTENANCE LEVEL				
X	A	ITEM: REQUISITION NEXT HIGHER ASSEMBLY			Z	NON-REPAIRABLE
	B	ITEM: NOT PROCURED OR STOCKED, AVAILABLE THRU SALVAGE, REQ. BY CAGE/PART NUMBER	Z	REF ONLY		
	C	INSTALLATION DRAWING, DIAGRAM, INSTRUCTION SHEET, IDENTIFY BY CAGE/PART NUMBER			B	RECONDITION
	D	NON-STOCKED, OBTAIN VIA LOCAL PURCHASE				

RECOVERABILITY		SERVICE OPTION CODE	
5th POSITION		6th POSITION	
DISPOSITION: WHEN UNSERVICEABLE OR UNECONOMICALLY REPAIRABLE, CONDEMN OR DISPOSE.		ASSIGNED TO SUPPORT ITEMS TO CONVEY SPECIFIC INFORMATION TO THE SERVICE'S LOGISTICS COMMUNITY/OPERATING FORCES.	
O	ORG/UNIT	1	I-LEVEL 1ST DEGREE
F	I/AFLOAT	2	I-LEVEL 2ND DEGREE
G	ASHORE AND AFLOAT	3	I-LEVEL 3RD DEGREE
H	I/ASHORE	6	COMMERCIAL ITEM, ORGANICALLY MFR'D
K	DLR; CONTRACTOR FACILITY	8	NON-CONSUMABLE; 2ND DEGREE ENGINE I-LEVEL
		9	NON-CONSUMABLE; 3RD DEGREE ENGINE I-LEVEL
L	INTERMEDIATE SRA LEVEL	E	END TO END TEST
		J	INTER-SERVICE DLR REPAIRABLE BELOW D-LEVEL
D	DLR; CONDEMN OR DISPOSE AT DEPOT	P	PROGRESSIVE MAINTENANCE
Z	NON-REPAIRABLE	R	GOLD DISC REPAIR
A	NON-REPAIRABLE BUT REQUIRES SPECIAL HANDLING	T	TRAINING DEVICES

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CHAPTER 3

SKK-9 LIFERAFT AND SURVIVAL KIT CONTAINER ASSEMBLY

Section 3-1. Description

3-1. GENERAL.

3-2. The SKK-9 liferaft and survival kit container is designed for use with certain E-2C aircraft as part of the A/P22P-11 crew backpack assembly (figures 3-1 and 3-2). The A/P22P-11 crew backpack assembly functions as a back rest for the aircrewman, a container for a parachute assembly, a container for an emergency oxygen system, and a container for a liferaft and survival items. The SKK-9 container, P/N 123AB50519-3, is manufactured by Grumman/CAGE 16512.

NOTE

This chapter contains maintenance, inspection and repair procedures for the SKK-9 container only. Also included are container rigging and packing instructions, including folding and packing the LRU-18/U liferaft into the container. Refer to NAVAIR 13-1-6.2 for parachute information and to NAVAIR 13-1-6.4-1 for the E-2C Emergency Oxygen System. Refer to NAVAIR 13-1-6.1-1 for description, maintenance, inspection and test procedures for the LRU-18/U liferaft.

3-3. CONFIGURATION.

3-4. The SKK-9 liferaft and survival kit is made up of a rigid two-piece fiberglass container. The LRU-18/U one-man vee-bottom liferaft is stowed in the SKK-9 on the starboard side along with a survival kit stowed on the port side (figure 3-3).

3-5. SUBASSEMBLIES. The major subassemblies of the SKK-9 are as follows:

1. Container subassembly
2. LRU-18/U liferaft
3. Survival kit

3-6. REFERENCE NUMBERS, ITEMS AND SUPPLY DATA.

3-7. Figures 3-7 through 3-8 contain information on each assembly, subassembly and component part of the SKK-9. The figure and index number reference or part number, description, and units per assembly are provided.

3-8. APPLICATION.

3-9. The SKK-9 container is part of the survival equipment included with the A/P22P-11 crew backpack assembly which is used by aircrewmen aboard certain E-2C aircraft.

3-10. FUNCTION.

3-11. The SKK-9 is not designed to be used independently of the A/P22P-11 crew backpack assembly. Refer to NAVAIR 13-1-6.2 for function of the entire system.

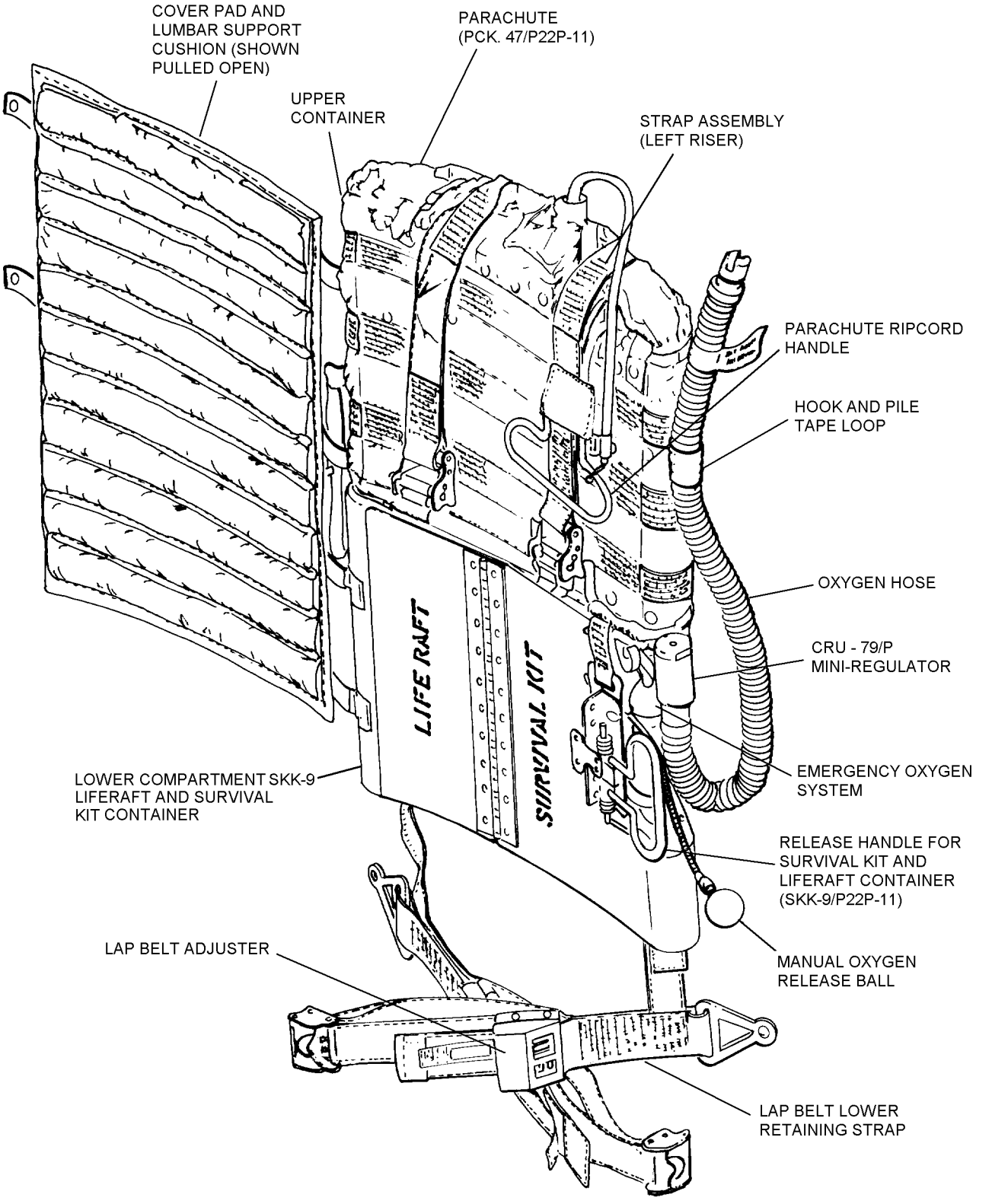
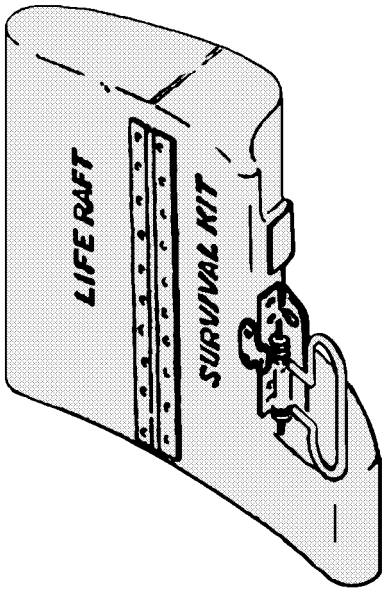
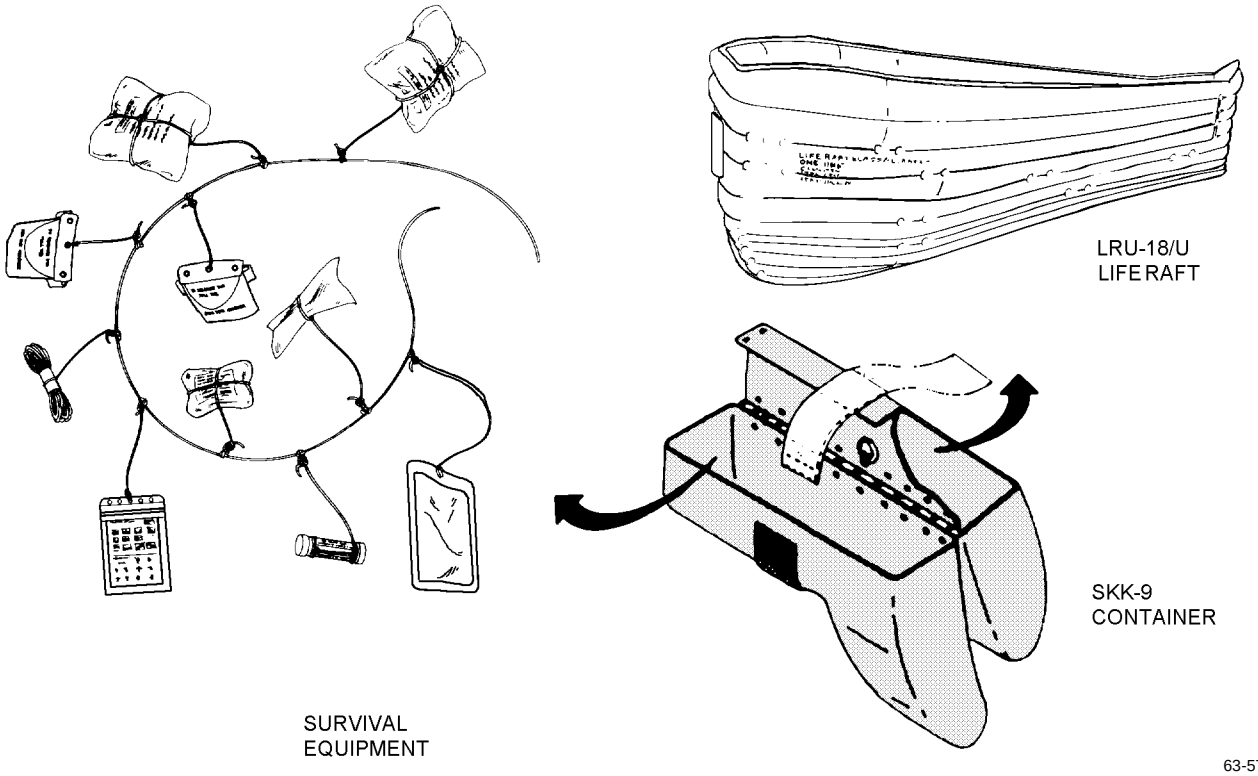


Figure 3-1. A/P22P-11 Crew Backpack Assembly



63-56

Figure 3-2. SKK-9 Liferaft and Survival Kit Container Assembly



63-57

Figure 3-3. SKK-9 Subassemblies

Section 3-2. Modifications

3-12. GENERAL.

3-13. There are no modifications to the SKK-9 required/authorized at this time.

Section 3-3. Rigging and Packing

3-14. GENERAL.

3-15. Unless operational requirements demand otherwise, rigging and packing of the SKK-9 liferaft and survival kit container shall be accomplished at Intermediate Levels of maintenance by qualified personnel.

NOTE

Quality assurance steps are provided for critical operations when a step is underlined, the Aircrew Survival Equipmentman shall perform the operation and then have performance verified by Quality Assurance (QA).

3-16. RIGGING AND PACKING PROCEDURES.

3-17. Rigging and packing of the SKK-9 liferaft and survival kit container is described in the following paragraphs:

1. Preliminary Procedures
2. Survival Equipment Binding
3. Liferaft, Folding, Rigging, Packing and Closure
4. Survival Equipment Packing, Rigging and Closure

3-18. PRELIMINARY PROCEDURES. The following preliminary procedures shall be accomplished prior to rigging and packing the SKK-9 liferaft and survival kit container.

1. Ensure that the SKK-9 container is inspected in accordance with Section 3-5.

2. Ensure liferaft has been inspected in accordance with NAVAIR 13-1-6.1-1.

3. Inspect survival items (table 3-1) in accordance with NAVAIR 13-1-6.5.

NOTE

With the exception of batteries, items reaching overage while packed in survival kits and rafts shall remain in service until the next inspection cycle of the completed assembly.

3-19. SURVIVAL EQUIPMENT BINDING. To bind survival items, proceed as follows (table 3-1).

NOTE

To prevent loss of survival items, tie items individually and then tie to 120-inch length of nylon cord (Type I). Nylon cord of prescribed lengths required for this procedure shall be seared at both ends to prevent fraying (table 3-2).

Table 3-1. Survival Kit Equipment (Note 1)

Item Name	Quantity	Reference Number
Nylon Cord, Type I	50 ft	NAVAIR 13-1-6.5
Day/Night Distress Signal, MK-13 MOD 0 or MK-124 MOD 0	1	NAVAIR 13-1-6.5
Sea Dye Marker	2	NAVAIR 13-1-6.5
Bailing Sponge, Type II, Class 2	1	NAVAIR 13-1-6.5
SRU-31/P Packet #1	1	NAVAIR 13-1-6.5
SRU-31/P Packet #2	1	NAVAIR 13-1-6.5
SRU-31A/P (Note 3)	Optional	NAVAIR 13-1-6.5
Bagged Water, Drinking	3	NAVAIR 13-1-6.5
Envelope, Packing List	1	NAVAIR 13-1-6.5
Ground/Air Emergency Code Card	1	NAVAIR 13-1-6.5
Combat Casualty Blanket (Note 2)	1	NAVAIR 13-1-6.5

Notes:
1. The items listed are typical and are considered mandatory for inclusion in the survival kit container. Deviation from the listed items may be required by certain Functional Air Wings (FUNCWINGS), Carrier Air Wings (CVW), COMFAIRS, or Marine Air Wings (MAW). Requests for deviations must be forwarded to and authorized by TYCOMS and with information to Fleet Support Team (FST) at NAVAIR-WARCENACDIV Patuxent River MD via Naval Message. When optional items are substituted, particular attention must be paid to the binding sequence so that physical sizes and binding order of substituted items remain approximately the same. That portion of an item name in parentheses is a common-use name or container size and is not intended for supply requisition purposes.
2. Optional Equipment.
3. The selection of SRU-31/P or SRU-31A/P Individual Aircrewmember's Survival Kit will be at the discretion of the TYPE COMMANDER depending on mission requirements, reference NAVAIR 13-1-6.5, Chapter 9, for detailed information.

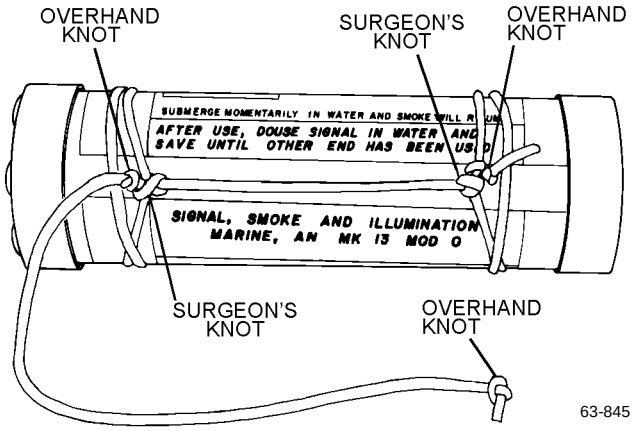
Table 3-2. Nylon Cord Lengths Required for Binding

Length (Inches)	No. Required
120	1
12	5 (Note 1)
30	2
36	1
40	3 (Note 1)

Notes:
1. The number of lengths of nylon cord may change depending on what size water bags are used. Only authorized water bags are to be used in accordance with table 3-1 and NAVAIR 13-1-6.1-1 technical manual.

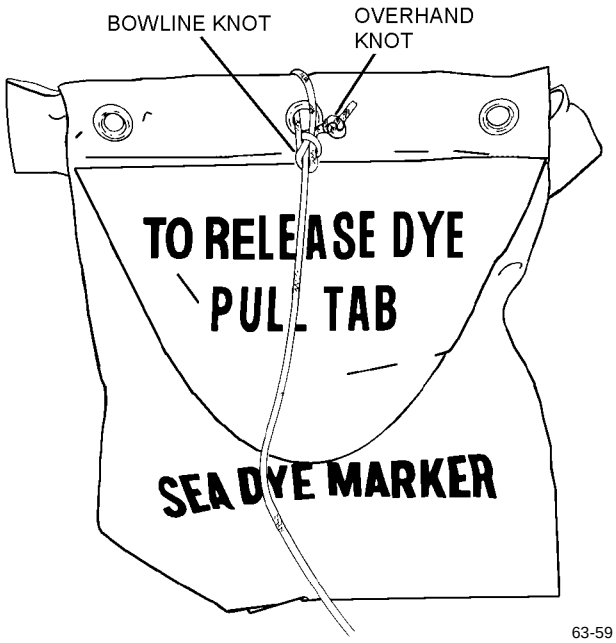
1. Using a 36-inch piece of nylon cord, tie an overhand knot in each end. Wrap end of cord two turns around one end of a MK 13 MOD 0 signal flare and tie with a surgeon's knot. Turns of cord shall overlap and all knots shall be positioned snugly against each other.

2. Route cord to opposite end of signal flare and tie in the same manner as step one. The cord between ties shall be drawn tightly.



Step 2 - Para 3-19

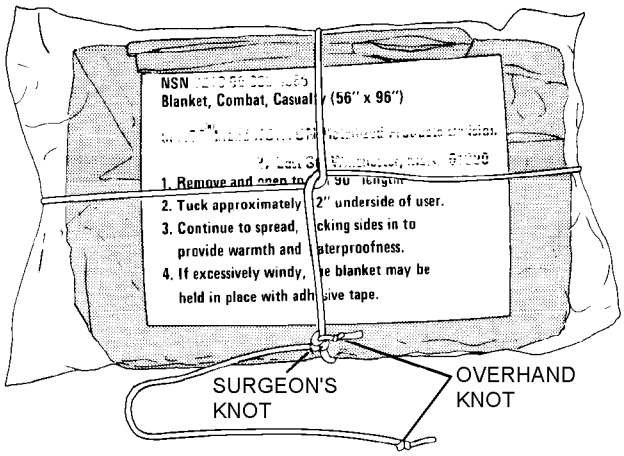
3. Using a 12-inch piece of nylon cord, tie an overhand knot near each end. Pass overhand knot through center grommet in dye marker and tie a bowline knot, allowing approximately a 1-inch loop. Bowline knot shall lie snugly against overhand knot.



Step 3 - Para 3-19

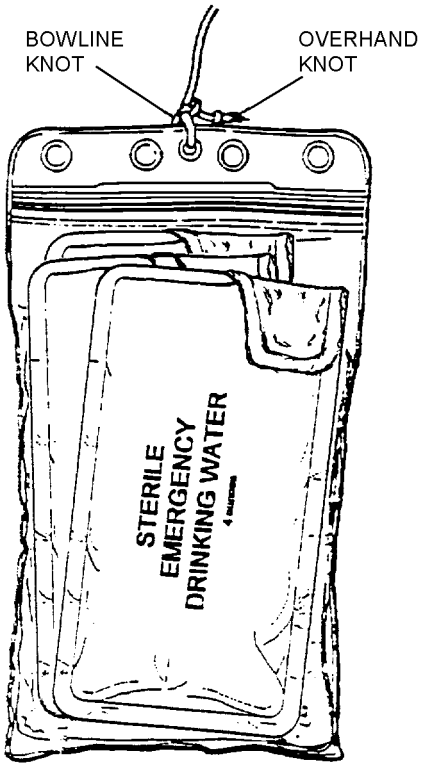
4. Tie second dye marker in the same manner as step 3.

5. To secure the combat casualty blanket, tie an overhand knot near each end of a 30-inch piece of nylon cord. Wrap cord around blanket until cord ends meet, then rotate cords 1/4 turn and wrap cords around opposite sides of blanket. Tie with a surgeon's knot. Knots shall lie snugly against each other.



Step 5 - Para 3-19

6. To secure bagged emergency water, place bagged emergency drinking water flat inside a clear vinyl envelope (MIL-B-117) with pour spout folded down. Bagged water must be able to fit into an envelope without disrupting the closure of the sealing slide fastener. Using a 12-inch length of cord, tie an overhand knot on each end and pass knot through center hole in envelope. Secure with bowline knot, allowing an approximate 1-inch loop. Position an overhand knot snugly against the bowline knot.



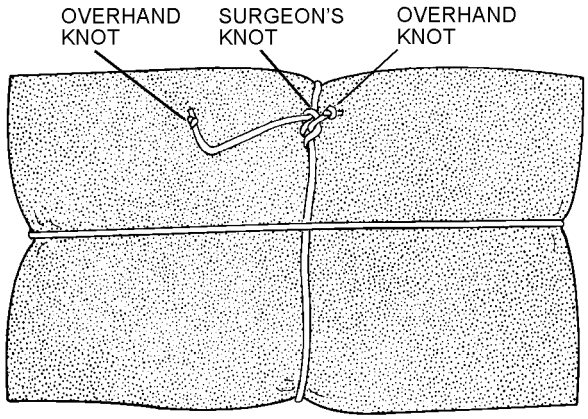
63-61

Step 6 - Para 3-19

NOTE

The bailing sponge should be compressed to a minimum thickness while damp and then allowed to dry in the compressed state before tying.

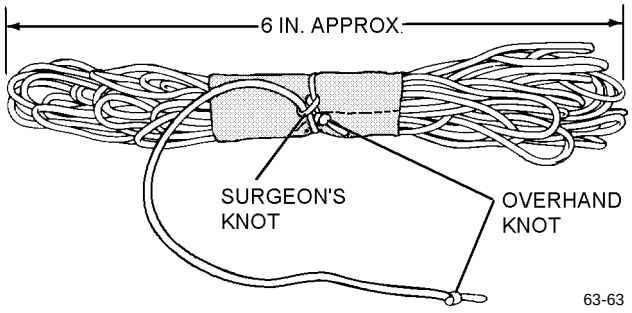
7. Using a 30-inch length of nylon cord, tie an overhand knot near ends. Wrap cord around sponge until cord ends meet, then rotate cords 1/4 turn and wrap cords around opposite sides of sponge. Tie with a surgeon's knot. Knots shall lie snugly against each other.



63-62

Step 7 - Para 3-19

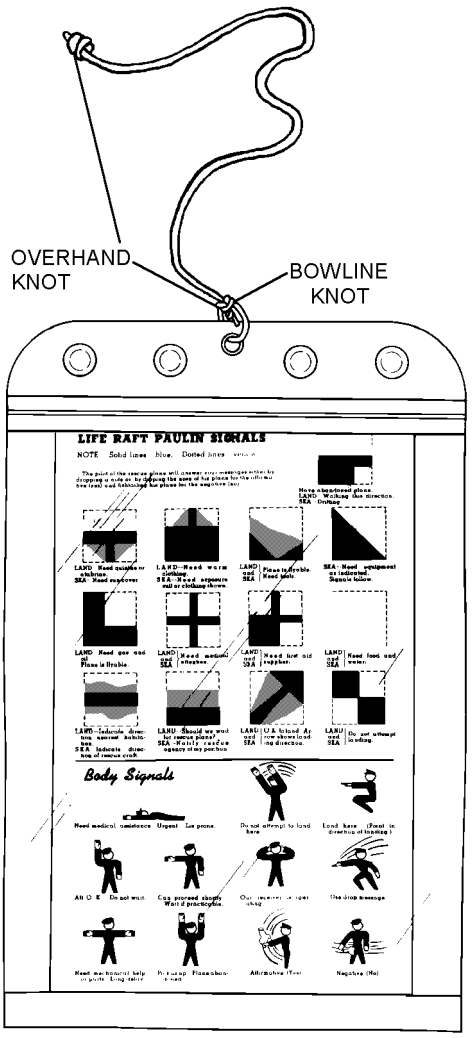
8. Cut one 2 x 3-inch piece of nylon duck material. Accordion-fold 50-foot length of nylon cord in 6 inch bights, and wrap material around center of folded cord. Using a 12-inch piece of nylon cord, tie an overhand knot near each end and secure one end of cord to center of material with a surgeon's knot. Position all knots snugly against each other.



63-63

Step 8 - Para 3-19

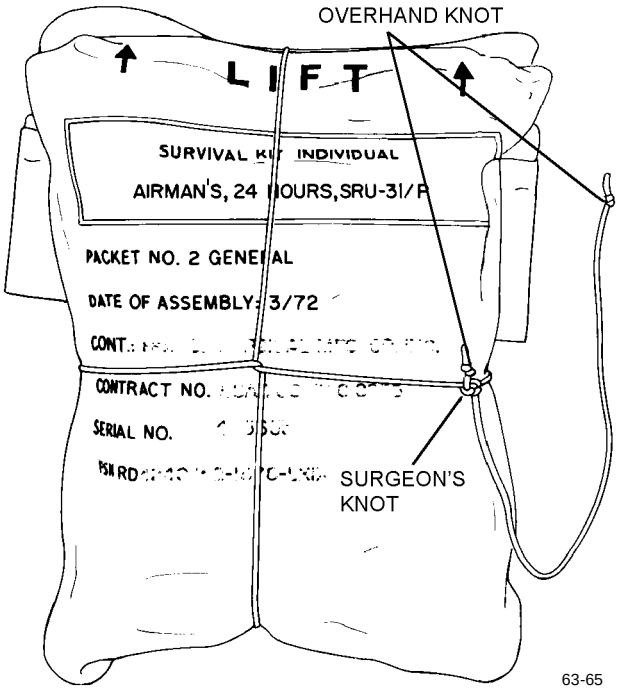
9. Place ground/air emergency code card into clear vinyl plastic envelope (MIL-B-117) and close sealing zipper. Using a 12-inch length of nylon cord, tie an overhand knot near each end and pass knot through center hole in envelope. Secure with bowline knot, allowing a 1-inch loop. Position overhand knot snugly against bowline knot.



63-64

Step 9 - Para 3-19

10. Using a 40-inch length of nylon cord, tie an overhand knot in both ends. Wrap cord around one packet of SRU-31/P survival kit until cord ends meet, then rotate cords 1/4 turn and wrap cords around opposite sides of packet. Tie with a surgeon's knot. Knots shall be positioned snugly against each other.



63-65

Step 10 - Para 3-19

11. Secure second SRU-31/P packet in the same manner as step 10.

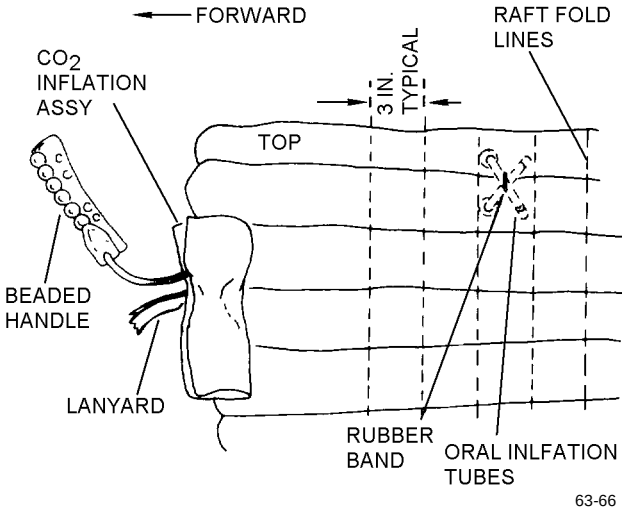
12. Using a 120-inch piece of nylon cord, form an overhand loop approximately 12 inches from one end. Continue making these loops every 5 inches until enough loops are formed to accommodate all survival items.

13. Ensure that remaining end of cord on each individual survival item has an overhand knot near the end.

14. Tie each item to a loop with a surgeon's knot. All knots shall be positioned snugly against one another (figure 3-4).

3-20. LIFERAFT FOLDING, RIGGING, PACKING AND CLOSURE. To fold, rig, pack and close the LRU-18/U liferaft in the SKK-9 survival kit, proceed as follows:

1. Cross oral inflation tubes (3") and hold with rubber band. This will enable the tubes to more easily fall into a 3-inch fold when the raft is being inserted into the container, thus minimizing the chance of damage to the tubes.



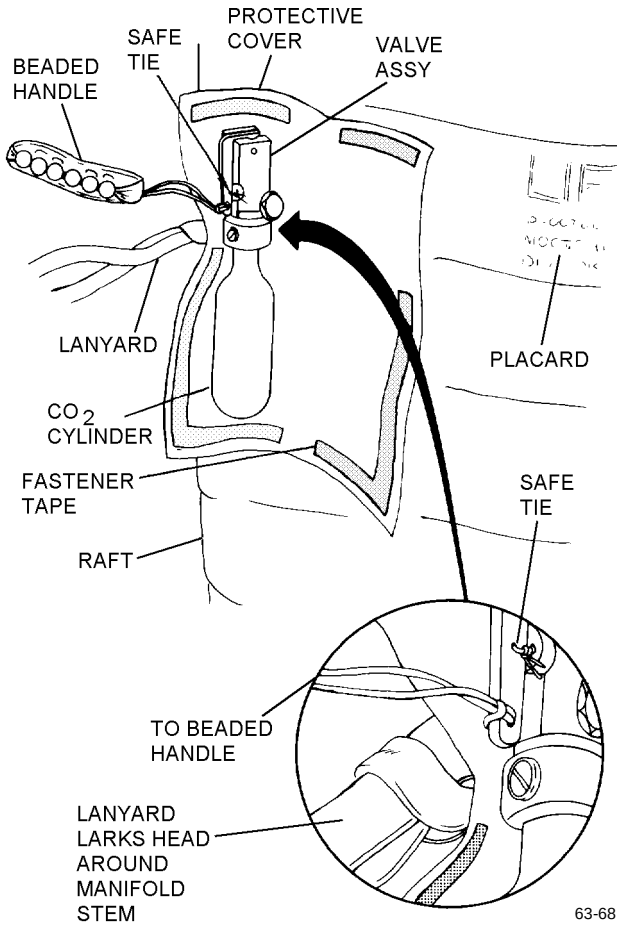
Step 1 - Para 3-20

NOTE

In order to pack the liferaft into the SKK-9 container the raft must be completely evacuated. Use care when deflating. Close the oral inflation valve while the vacuum pump is still running to assure that no air re-enters the raft. Refer to NAVAIR 13-1-6.1-1.

2. Ensure that the CO_2 cylinder is properly installed. Refer to NAVAIR 13-1-6.1-1. Safety tie the inflation valve actuation handle with one turn of size E nylon thread. Use a surgeon's knot followed by a square knot.

3. Attach lanyard to liferaft as follows. Form a lark's head knot with the webbing loop large enough to pass over the entire CO_2 inflation assembly. Tighten the knot around the manifold stem. The knot will lie between the surface of the raft and the CO_2 inflation assembly. Tack the knot with two turns of waxed, size 6 cord, single. Tie the ends of the threads with a surgeons knot, followed by a square knot.



Step 3 - Para 3-20

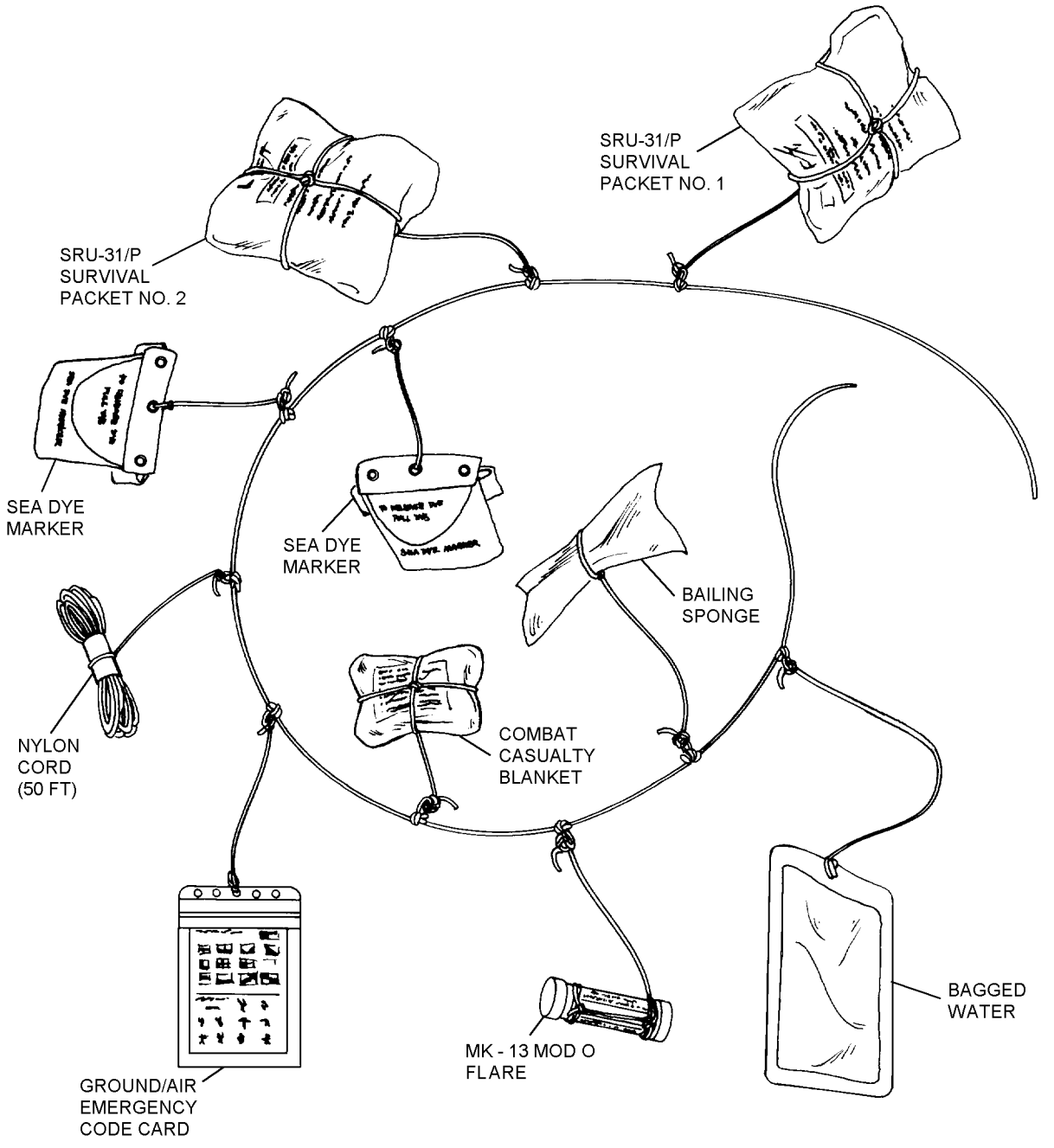
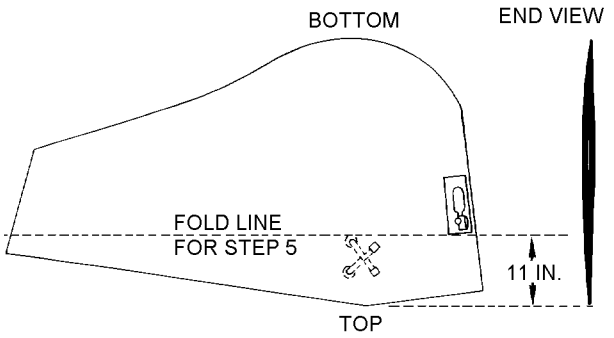


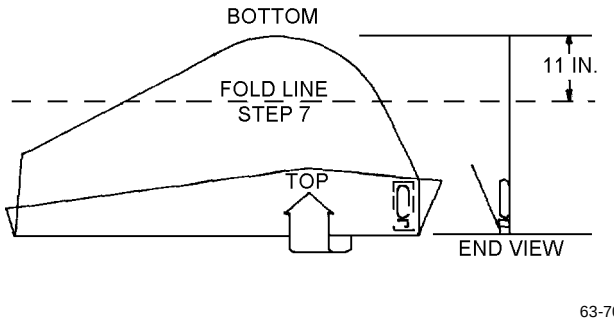
Figure 3-4. Binding Survival Items

4. Lay liferaft on the packing table as shown and lightly dust entire raft with talc (MIL-T-50036A). Note fold line for step 5.



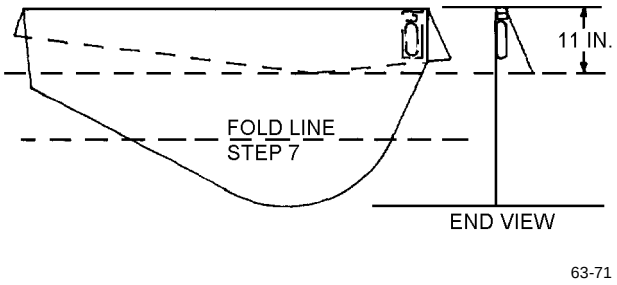
Step 4 - Para 3-20

5. Fold top of raft up and over at point in line with inflation valve of CO_2 cylinder. Note fold line for step 7.



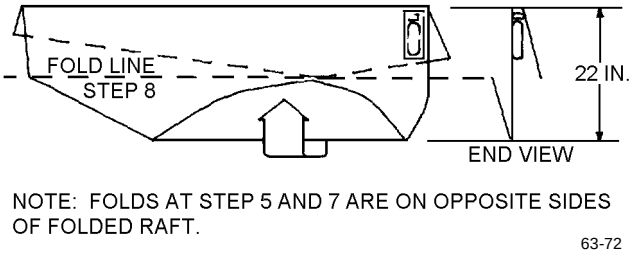
Step 5 - Para 3-20

6. Turn raft over with top fold under and at top. Bottom of raft should now be nearest person folding raft.



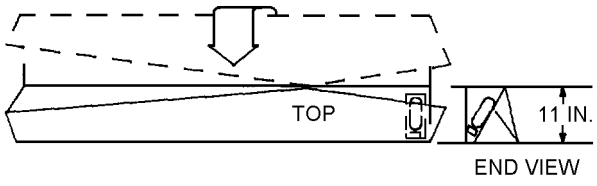
Step 6 - Para 3-20

7. Fold bottom of raft up at fold line. Note fold line for step 8.



Step 7 - Para 3-20

8. Fold top half of folded raft forward and down at fold line eight. The original fold at step 5 should now be on top to provide immediate access to CO_2 cylinder.

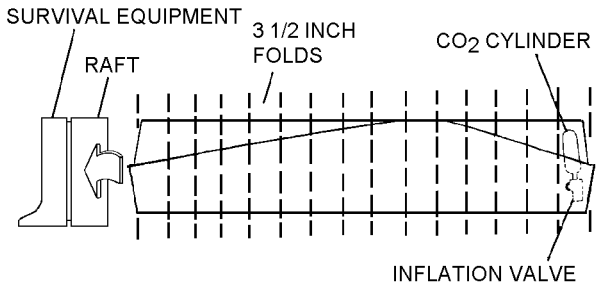


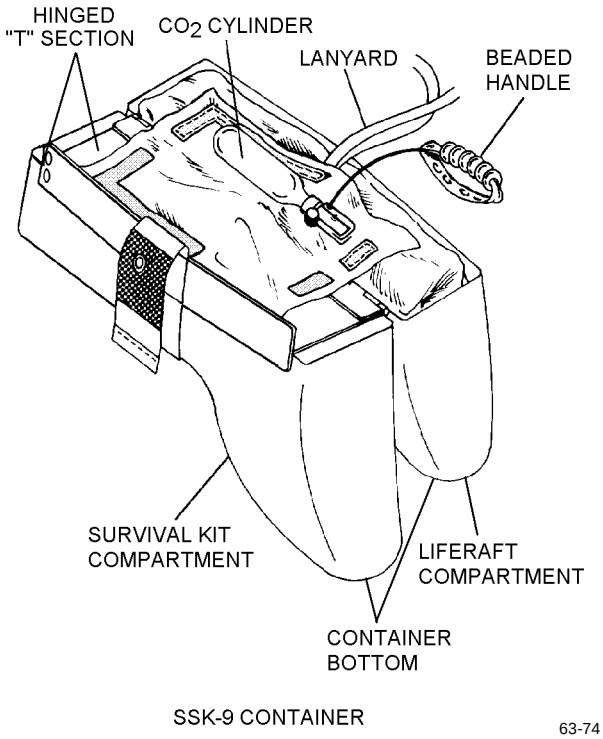
Step 8 - Para 3-20

9. Place the SKK-9 liferaft and survival equipment container on table with raft compartment open and facing packer. Starting at raft end opposite CO_2 cylinder, accordion-fold liferaft in folds of approximately 3 1/2 inches directly into the container. Continue folding raft into the container working towards the CO_2 cylinder.

NOTE

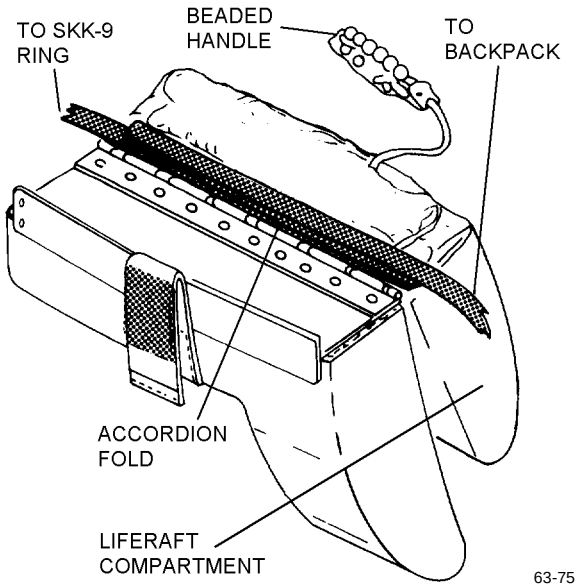
Liferaft should be packed in raft compartment so that CO_2 cylinder is at the top (opening) and inflation valve faces bottom side of container. (Side with larger "L" survival equipment area).





Step 9 - Para 3-20

10. Accordion-fold the webbing as shown. Fold most of the webbing until a short portion is left to hook up to the ring in the equipment container (figure 3-5).



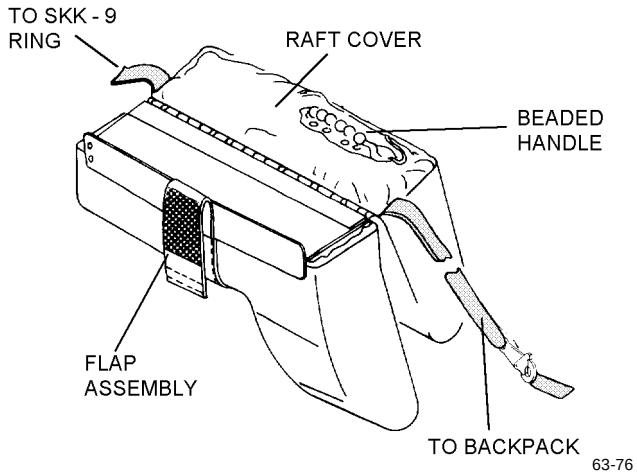
Step 10 - Para 3-20

WARNING

Ensure that lanyard line is not entangled with beaded inflation handle, which may cause interference when being extracted from the container. A rubber band may be used to secure the webbing as desired.

10A. Ensure webbing stop on raft lanyard is butted against the inside of SKK-9 container. There shall be a minimum of 45 inches of lanyard extending from container to end of snaphook, which is stowed in the A/P22P-11 backpack cushion.

11. Install raft cover. Allow lanyards and beaded handle to exit locations shown.

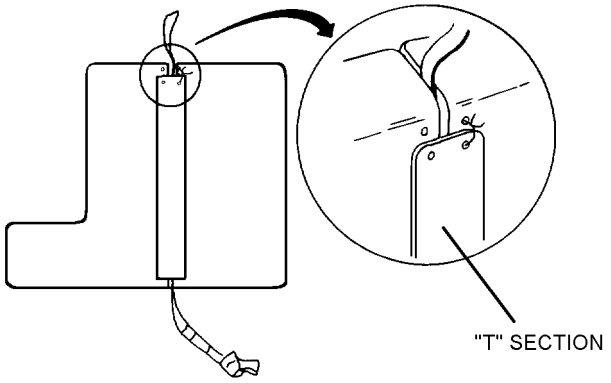


Step 11 - Para 3-20

NOTE

Notch in raft cover to be located at end where bottle manifold and beaded handle are located.

12. Close the hinged “T” section over the raft cover and secure by closing the flap assembly.



Step 12 - Para 3-20

NOTE

Raft is properly secured when the holes for the safety-tie are aligned.

13. Assure that safety-tie holes at end of “T” section are lined up and safety-tie liferaft compartment with one turn of size E nylon thread. Tie ends with surgeon’s knot followed by a square knot.

3-21. SURVIVAL EQUIPMENT PACKING, RIGGING AND CLOSURE. To pack survival equipment in the fiberglass survival kit proceed as follows:

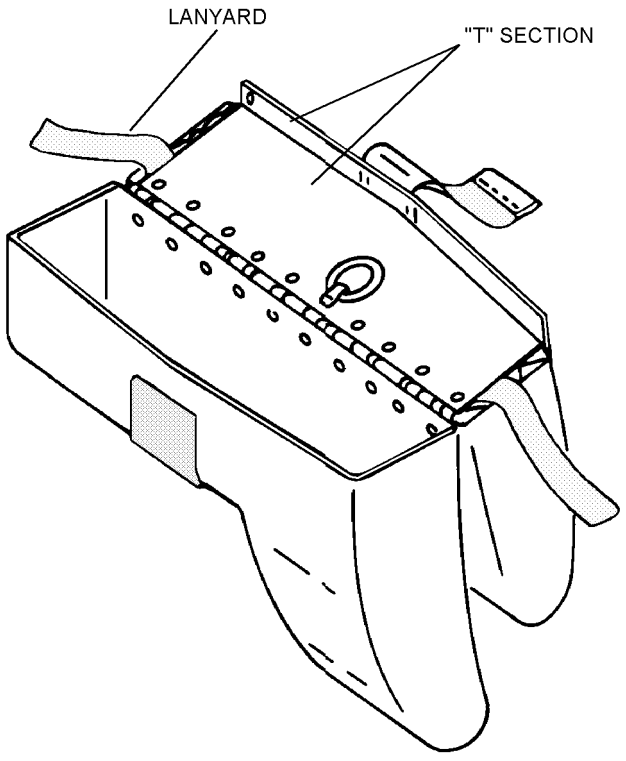
NOTE

Assure that the liferaft container is properly closed and that hinged “T” section is safetied.

1. Place equipment container on table with survival kit container open and open end facing up.

NOTE

Survival items shall be stowed in a neat and orderly fashion and the items shall be arranged to prevent a distorted pack.



Step 1 - Para 3-21

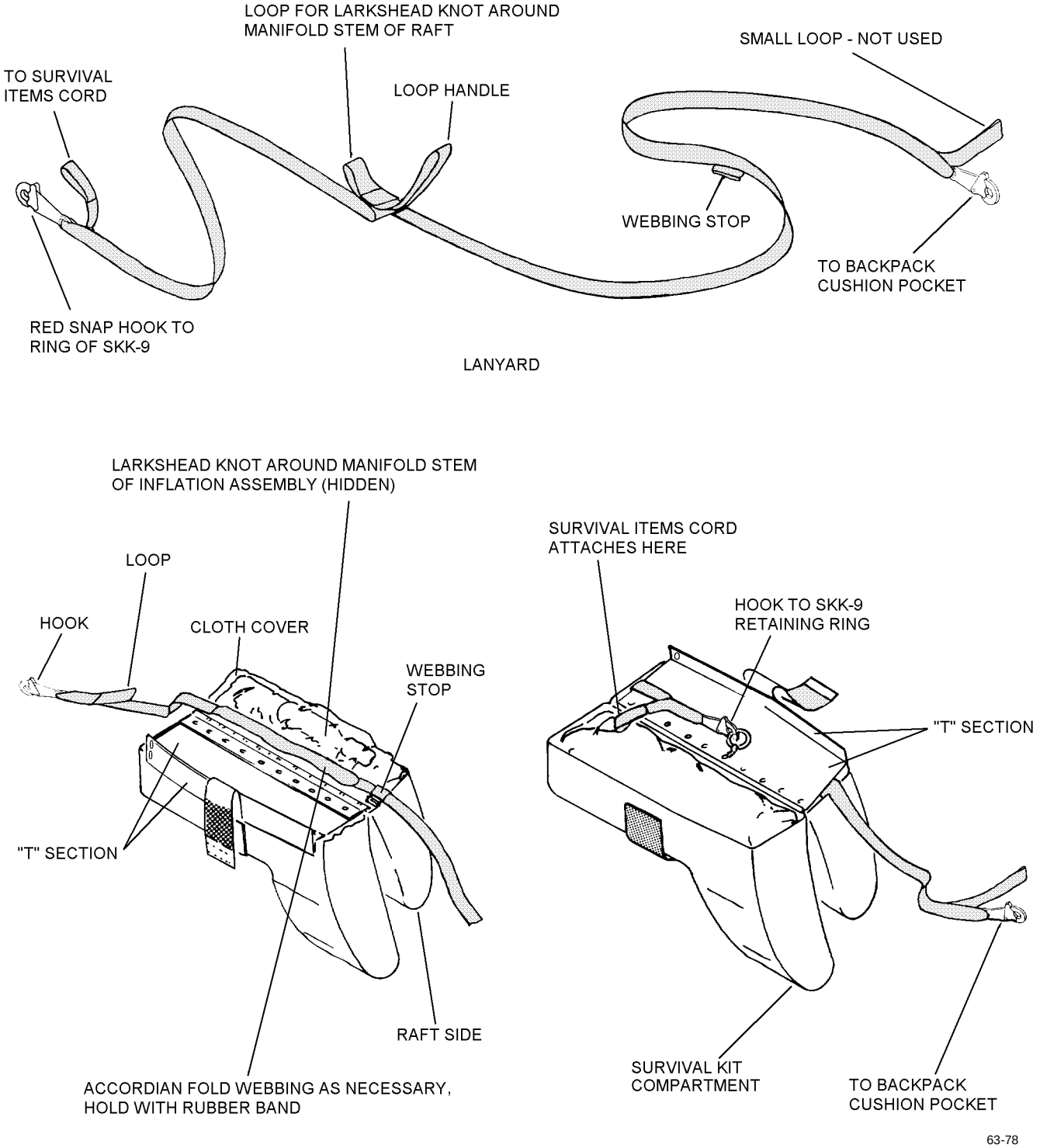
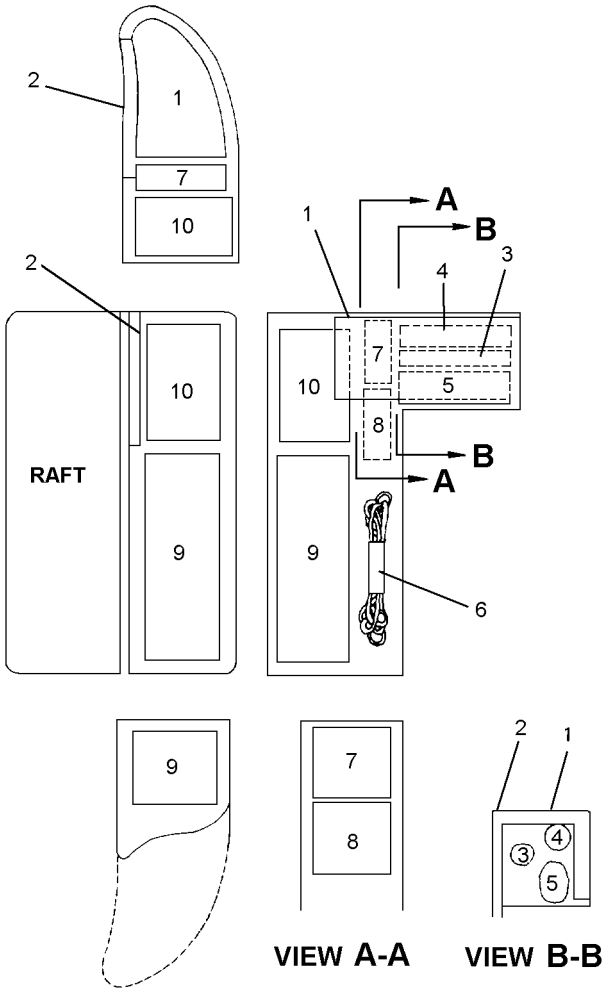


Figure 3-5. Lanyard Rigging

2. Stow survival items into the Survival Kit section of container.



1. BAGGED WATER
2. SPONGE (1/4" X 1 3/4" X 6")
3. DAY/NIGHT DISTRESS SIGNAL
4. COMBAT CASUALTY BLANKET
5. GROUND/AIR EMERGENCY CODE CARD
6. NYLON CORD, TYPE 1 (7 1/2" LONG)
7. SEA DYE MARKER
8. SEA DYE MARKER
9. SRU-31/P PACKET #2
10. SRU-31/P PACKET #1

63-80

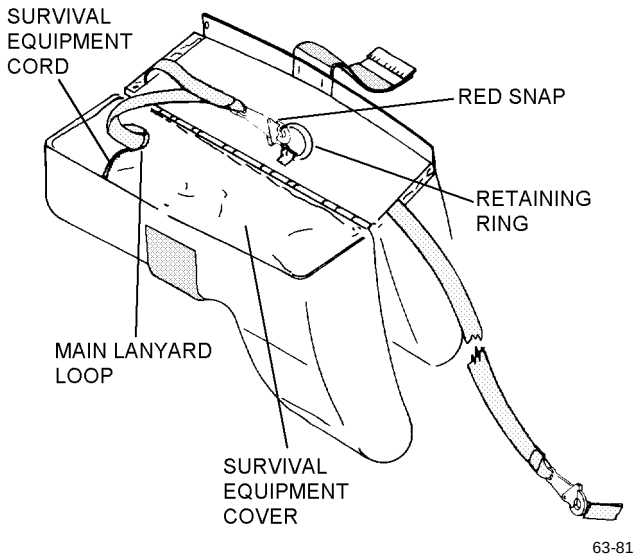
Step 2 - Para 3-21

3. Attach red snap to SKK-9 retaining ring. Attach end of survival equipment cord to end loop on main lanyard.

CAUTION

When installing the cover be careful not to puncture bagged drinking water.

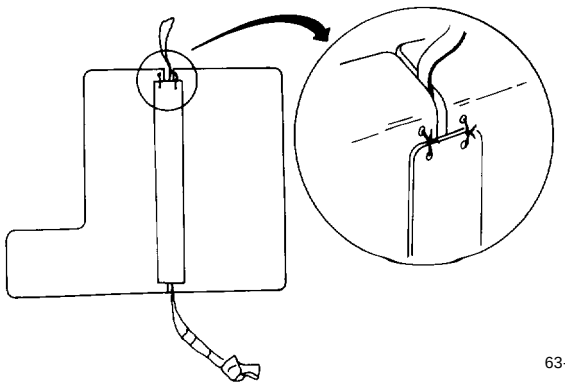
4. Install survival equipment cover down and around the equipment.



63-81

Step 4 - Para 3-21

5. Close survival equipment side. Safety-tie survival kit compartment with a single turn of size E nylon thread at end of "T" section. Tie ends with a surgeon's knot followed by a square knot.



63-82

Step 5 - Para 3-21

6. Refer to NAVAIR 13-1-6.2 for final assembly into A/P22P-11 crew backpack.

Section 3-4. Turnaround/Daily/Preflight/Postflight/Transfer/ Special/Conditional Inspection

3-22. GENERAL.

NOTE

For Turnaround/Daily/Preflight/Postflight/ Transfer/Special/Conditional Inspections, the SKK-9 liferaft and survival kit container is inspected as part of the A/P22P-11 crew backpack assembly. Refer to aircraft 01 series cards for inspection procedures.

3-23. The Turnaround/Daily/Preflight/Postflight or Transfer Inspections consist of a visual inspection performed in conjunction with the aircraft inspection requirements for aircraft in which the SKK-9 is installed, these inspections shall be performed by line personnel (plane captain) or delegated aircrewmen who have been instructed and found qualified by the Aviator's Equipment Branch.

3-24. Conditional Inspection is an unscheduled inspection required as a result of a specific situation or set of conditions, e.g., hard-landing inspections or any inspection directed by higher authority that is not ordered in a technical directive.

3-25. The Special Inspection shall be performed on inservice SKK-9's installed in E-2C aircraft and in ready room issue every 14 days. This inspection shall be performed at the Organizational Level of maintenance by personnel assigned to the Aviator's Equipment Branch. Completion and date of inspection shall be documented by making necessary entries on appropriate form in accordance with OPNAVINST 4790.2 Series.

Section 3-5. Acceptance/Phased/SDLM Inspection

3-26. GENERAL.

3-27. The Acceptance Inspection of the SKK-9 is performed at the time the A/P22P-11 crew backpack assembly is placed into service. When the crew backpack assembly is an aircraft inventory item, the Acceptance Inventory Inspection and packing shall serve as the Acceptance Inspection. In this case, the records concerning the crew backpack shall be examined. Phased/SDLM Inspection cycle of the SKK-9 shall correspond to the aircraft Phased/SDLM maintenance cycle as directed by applicable Planned Maintenance System (PMS) publications for specific intervals. In no case shall the phased interval exceed 230 days.

3-28. VISUAL INSPECTION. The visual inspection shall be performed prior to packing of liferaft and survival items.

1. Visually check the SKK-9 for the following:

a. Container for cracks, distortion, and other damage.

b. Handle for security and wear.

c. Any other parts for wear, damage and security.

d. All hardware for security of attachment, corrosion, damage, wear and ease of operation.

e. Container for stains, dirt, proper markings, and general condition.

Section 3-6. Maintenance

3-29. GENERAL.

3-30. This section contains procedures for disassembly, cleaning, inspection of disassembled parts, and repair or replacement of parts for the SKK-9 liferaft and survival kit container.

3-31. DISASSEMBLY. Disassemble the SKK-9 container using the key index numbers assigned to figures 3-7 and 3-8 as a reference.

3-32. CLEANING. To clean the SKK-9 container, proceed as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Drycleaning Solvent Type I, 1 Quart	P-D-680 NIIN 00-664-5685
As Required	Lint-free Cloth	MIL-C-85043 NIIN 00-044-9281

WARNING

Use drycleaning solvent in a well ventilated area. Avoid prolonged contact with skin and inhalation of fumes. Keep away from flame.

1. To clean the fiberglass container of dust and dirt, wipe with a damp cloth. If areas are soiled with grease or oil, moisten cloth with drycleaning compound (P-D-680) before using.

2. Immediately dry with clean, lint-free cloth.

3. Clean metallic parts with drycleaning solvent (P-D-680), following directions on container.

4. Dry metal parts with a lint-free cloth.

3-33. INSPECTION. Inspect the disassembled parts of the SKK-9 container for damage, distortion, corrosion, and other damage.

3-34. REPAIR AND REPLACEMENT. Repair or replace parts of the SKK-9 container as follows:

3-34A. Repair. Repair of individual components within any assembly is authorized only in accordance with procedures outlined in this manual. All authorized repairs performed shall be documented by making necessary entries on appropriate form in accordance with OPNAVINST 4790.2 Series.

3-34B. Replacement. All individual components that fail to pass inspection shall be replaced except where a repair procedure is indicated. Refer to source code listing (SM&R Code) in the Numerical Index of the Illustrated Parts Breakdown to aid in determining replaceable components. All adjustable components or assemblies that have failed to pass respective tests shall be readjusted to meet required specification.

3-34C. Seat Cushion. Replace seat cushion as needed. For fabrication procedures, see paragraph 3-38A.

Section 3-7. Fabrication

3-35. GENERAL.

3-36. This section contains instructions for fabrication of tools and components that can be manufactured by local maintenance activities.

3-37. FABRICATION OF RETAINING LANYARD. Fabricate a retaining lanyard if part cannot be obtained through supply.

3-38. To fabricate a retention lanyard for the SKK-9 liferaft and survival kit container assembly, proceed as follows:

Materials Required

Quantity	Description	Reference Number
2	Snap Hook	MS27756
208″	Webbing, Nylon, Type II, 1-inch Yellow	MIL-W-4088 NIIN 00-262-1643
As Required	Thread, Nylon Type II, Size E	V-T-295 NIIN 00-204-3884

1. Fold webbing to dimensions shown in Figure 3-6 and stitch as shown using size E nylon thread (V-T-295, Type II), 8 to 10 stitches per inch. Backstitch a minimum of 1/2 inch.

NOTE

When fabricating lanyard, the snap hooks must be inserted on lanyard prior to doing any boxstitching. Otherwise, lanyard will not go through holes in the hook.

3-38A. FABRICATION OF REPLACEMENT SEAT CUSHION FOAM. To fabricate a replacement cushion foam for the seat, proceed as follows:

Materials Required

Quantity	Description	Reference Number
1	Blade, Safety Razor	NIIN 00-162-5629

Materials Required (Cont)

Quantity	Description	Reference Number
As Required	CONFOR Foam, CF45100, Blue, 1 Inch Thick	NIIN 01-449-1789
As Required	CONFOR Foam, CF47100, Green, 1 Inch Thick	NIIN 01-370-6116

1. Remove old foam from seat cushion cover.

2. Use the old foam as a template, place old foam on top of CONFOR foam.

NOTE

Ensure bulk CONFOR foam is large enough to make the new foam cushion one piece.

3. Trace around the old foam onto the CONFOR foam.

4. Cut CONFOR foam along the traced line.

5. Install new foam cushion into seat cushion cover. Ensure seat cushion cover fits the cushion foam snugly, but does not cause bowing or excessively loose conditions.

6. Mark the date of installation on an easily visible location on CONFOR foam using permanent ink marker; replace CONFOR foam every two years.

7. Document maintenance action in accordance with OPNAVINST 4790.2 Series.

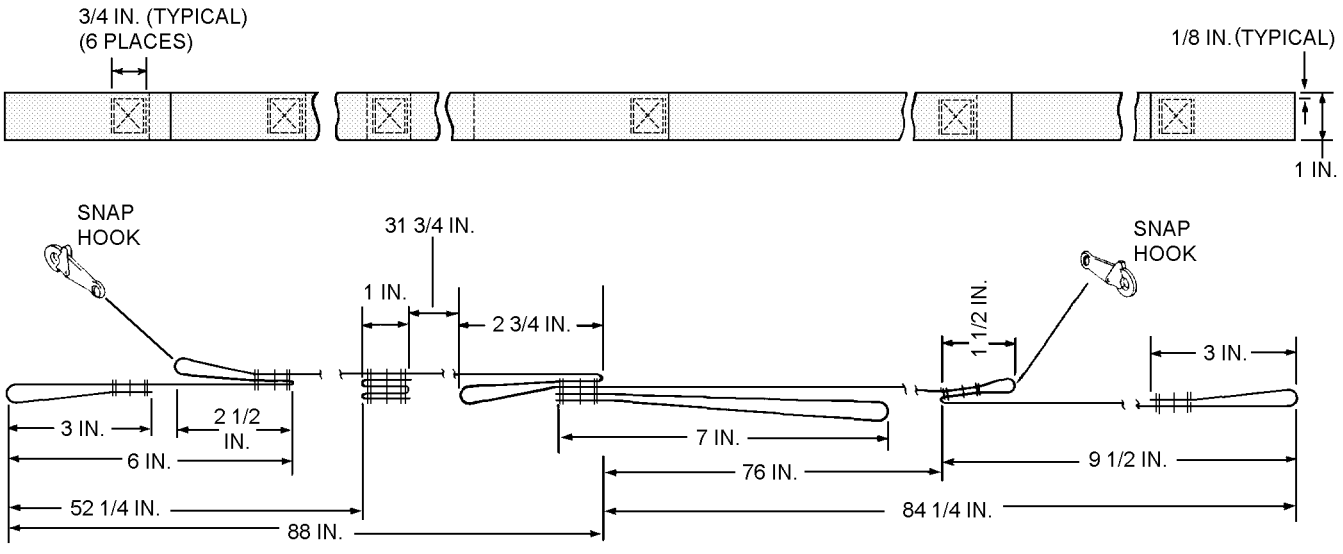


Figure 3-6. Lanyard Assembly

Section 3-8. Illustrated Parts Breakdown (IPB)

3-39. GENERAL.

3-40. This section lists and illustrates the assemblies and detail parts of the SKK-9 Survival Kit Container Assembly.

3-41. The Illustrated Parts Breakdown should be used during maintenance when requisitioning and identifying parts.

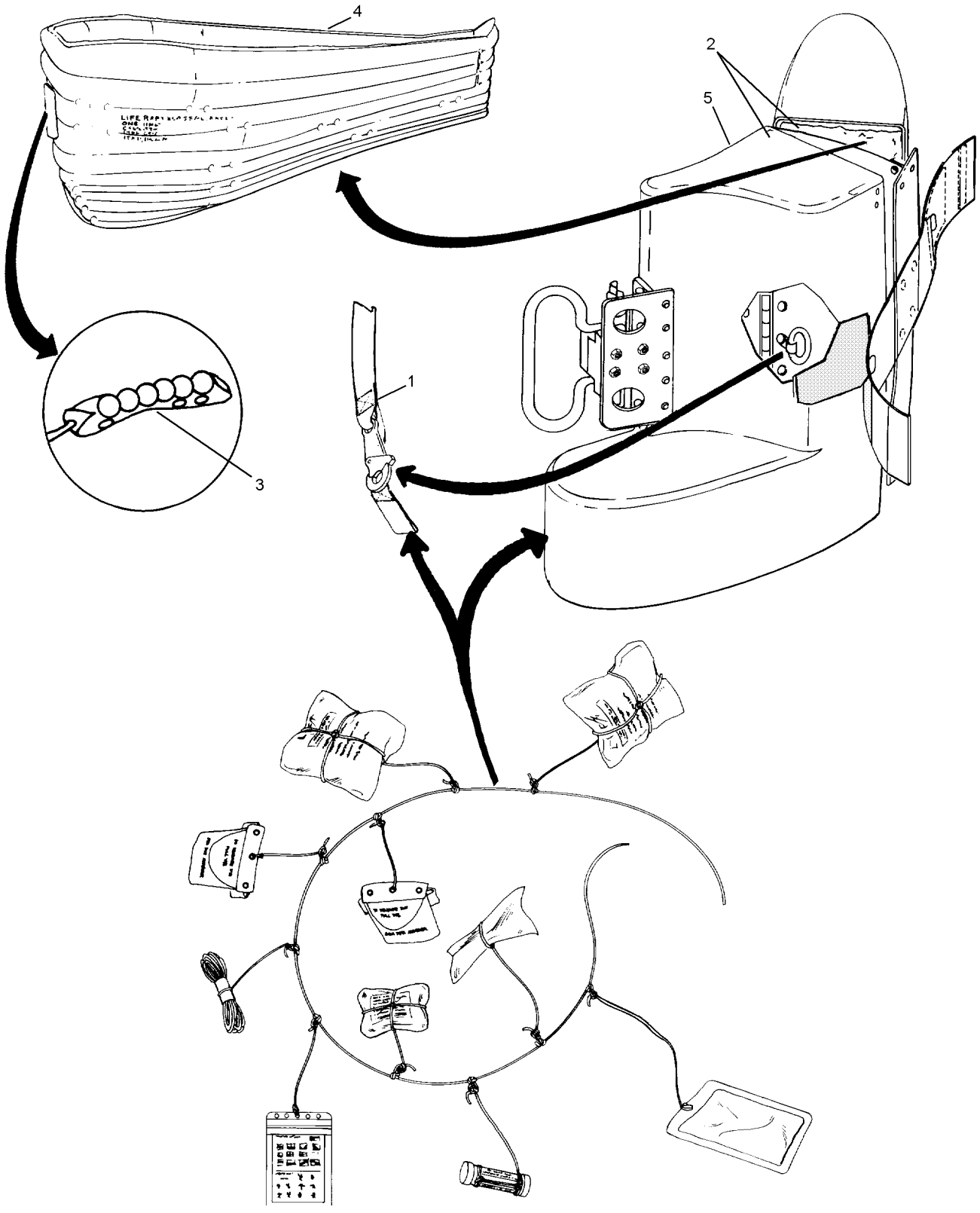


Figure 3-7. SKK-9 Survival Kit and Liferaft Container Assembly

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
3-7	123AB50512-3	CONTAINER ASSEMBLY, Survival Kit . . . . . (SKK-9/P22P-11)	REF	
-1	123AB50525-3	. LANYARD ASSEMBLY	1	
-2	123AB50538-1	. COVER ASSEMBLY	2	
-3	975AS121-12	. HANDLE ASSEMBLY	1	
-4	1521AS102-1	. LRU-18/U LIFERAFT, (GFE) . . . . . (See NAVAIR 13-1-6.1-1 for Raft Subassemblies) (NIIN 01-272-8004)	1	
-5	123AB50519-3	. CONTAINER SUBASSEMBLY . . . . . (See Figure 3-8 for detail BKDN)	1	
-6	DELETED			
-7	DELETED			
-8	DELETED			
-9	DELETED			
-10	DELETED			
-11	DELETED			
-12	DELETED			
	DELETED			
-13	DELETED			
-14	DELETED			

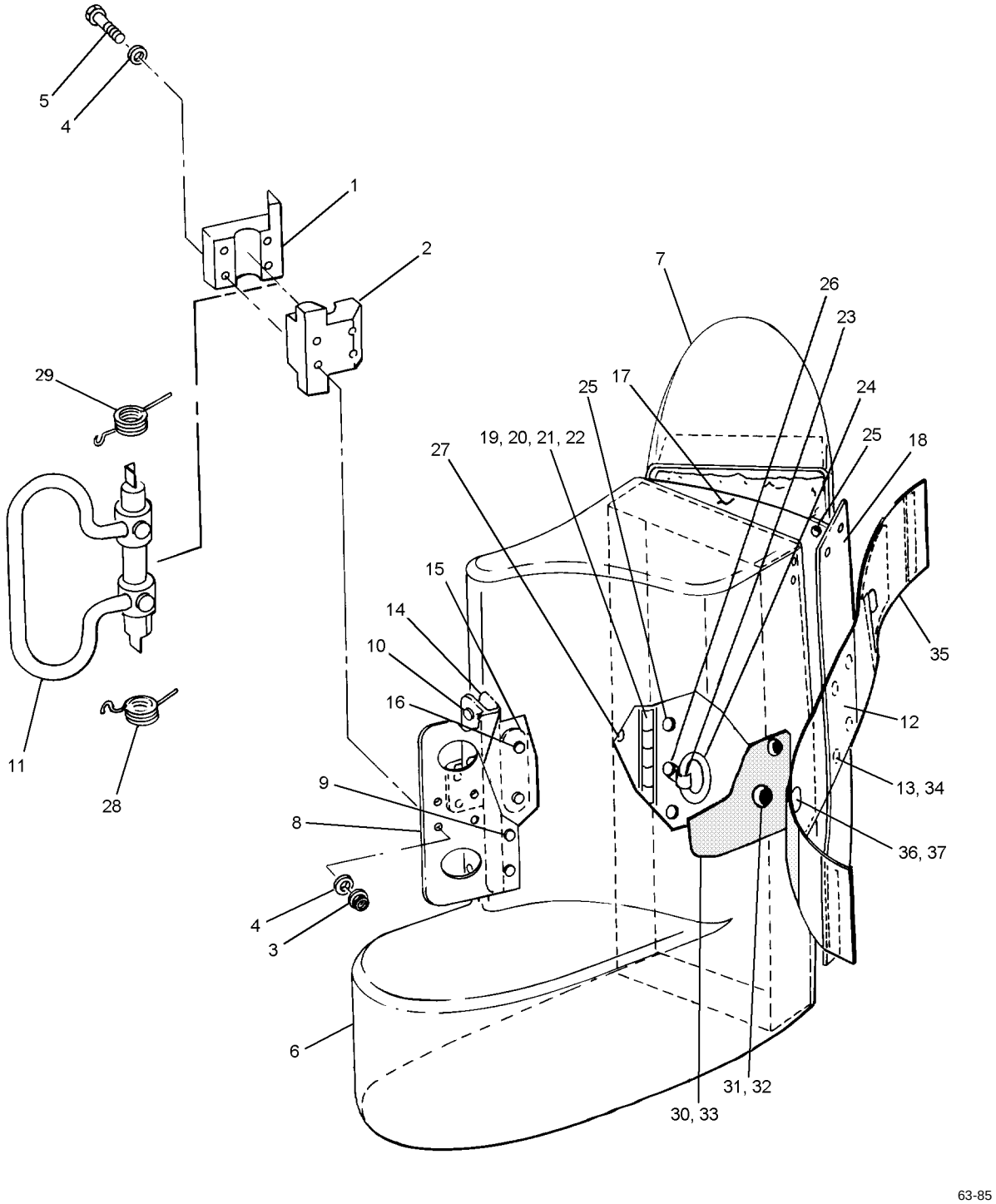


Figure 3-8. SKK-9 Container Subassembly

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
3-8	123AB50519-3	CONTAINER SUBASSEMBLY, Survival Kit ..... (See figure 3-7 for NHA) (NIIN 01-297-3949)	REF	
	123ABM50503-1	. MATCHED SET (NIIN 01-291-9179) ..... (Note 1)	1	
-1	123ABM50503-11	. . BAR MOUNT	1	
-2	123ABM50503-13	. . BAR MOUNT ..... (ATTACHING PARTS)	1	
-3	MS21042L06	. . NUT, Hex, RDC (NIIN 00-807-1472)	4	
-4	AN960D06L	. . WASHER, Flat Plain	8	
-5	GB511DU06-12	. . BOLT, Pan Head ..... ---*---	4	
-6	123ABP50501-11	. CONTAINER (Survival kit side)	1	
-7	123ABP50501-13	. CONTAINER (Liferaft side)	1	
-8	123AB50522-13	. PLATE	1	
-9	MS20470AD5	. RIVET, Universal Head ..... (ATTACHING PARTS)	9	
-10	MS20426AD5	. RIVET, Sol, Flat Head (NIIN 00-117-6888) ..... ---*---	A/R	
-11	123AB50544-1	. HANDLE ASSEMBLY (NIIN 01-318-1393) ..... (Note 2)	1	
-12	123AB50530-19	. PLATE ..... (ATTACHING PARTS)	1	
-13	MS20426AD4	. RIVET, Sol, Flat Head (NIIN 00-117-6952) ..... ---*---	4	
-14	123AB50531-19	. RADIUS BLOCK	1	
-15	123AB50531-21	. SUPPORT ..... (ATTACHING PARTS)	1	
-16	MS20470AD5	. RIVET, Universal Head (Note 3) ..... ---*---	2	
-17	123AB50527-1	. HINGE ASSEMBLY	1	
-18	123AB50527-11	. . WEB (T SECTION)	1	
-19	123AB50527-13	. . STIFFENER	1	
-20	123ABM50504-1	. . HINGE ASSEMBLY	1	
	123ABM50504-11	. . . HINGE HALF	1	
	123ABM50504-13	. . . HINGE HALF	1	
-21	123ABM50504-15	. . . HINGE HALF	1	
-22	MS20253P2-1095	. . PIN, Hinge (NIIN 01-292-6410)	1	
-23	AN742-4	. . CLAMP, Loop (NIIN 00-298-9475)	1	
-24	MS51925-4	. . RING, Dee (NIIN 00-127-7449) ..... (ATTACHING PARTS)	1	
-25	MS20470AD4	. . RIVET, Universal Head ..... (NIIN 01-205-0848)	A/R	
-26	MS20470AD6	. . RIVET, Universal Head ..... (NIIN 00-117-6851)	A/R	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
3-8-27	MS20470AD5	. . RIVET, Universal Head	18	
		---*---		
-28	GS581D011	. SPRING, Torsion	1	
-29	GS581D012	. SPRING, Torsion (NIIN 01-291-4630)	1	
-30	GT100AS2G4	. TAPE (Note 4)	A/R	
-31	MS27981-4B	. FASTENER, Snap (NIIN 00-901-9660)	2	
-32	MS27981-7B	. FASTENER, Eyelet (NIIN 01-293-1079)	2	
-33	A100AJ1	. ADHESIVE (NIIN 00-165-8614) (Note 4)	A/R	
-34	GM41071B0	. SEALING COMPOUND	A/R	
-35	123AB50543-1	. FLAP ASSEMBLY	1	
-36	MS27981-1B	. FASTENER, Snap (NIIN 00-276-4954)	2	
-37	MS27981-3B	. FASTENER, Snap (NIIN 00-276-4966)	2	
	Notes: 1. 123ABM50503-1 must be banked against leg of 123AB50522-13 before drilling holes. 2. Coordinate location with 123AB0526-3. 3. Use GM31071B0 to fill voids after riveting. 4. Bond GT100AS2G4 to 123ABP50501-11 and -13 using GA100AJ1.			

NUMERICAL INDEX

Part Number	Figure and Index Number	SM&R Code
AN742-4	3-8-23	
AN960D06L	3-8-4	
GA100AJ1	3-8-33	
GB511DU06-12	3-8-5	
GM41071B0	3-8-34	
BS581D011	3-8-28	
GS581D012	3-8-29	
GT100AS2G4	3-8-30	
MS20253P2-1095	3-8-22	
MS20426AD4	3-8-13	
MS20426AD5	3-8-10	
MS20470AD4	3-8-25	
MS20470AD5	3-8-27	
	3-8-9	
	3-8-16	
MS20470AD6	3-8-26	
MS21042L06	3-8-3	
MS27981-1B	3-8-36	
MS27981-3B	3-8-37	
MS27981-4B	3-8-31	
MS27981-7B	3-8-32	
MS51925-4	3-8-24	
123AB50519-3	3-7-5	
123AB50521-21	3-8-15	
123AB50522-13	3-8-8	
123AB50525-3	3-7-1	
123AB50527-11	3-8-17	
123AB50527-13	3-8-18	
123AB50530-19	3-8-12	
123AB50531-19	3-8-14	
123AB50538-1	3-7-2	
123AB50543-1	3-8-35	
123AB50544-1	3-8-11	
123ABM50503-11	3-8-1	
123ABM50503-12	3-8-2	
123ABM50504-11	3-8-19	
123ABM50504-13	3-8-20	
123ABM50504-15	3-8-21	
123ABP50501-11	3-8-6	
123ABP50501-13	3-8-7	
1521AS102-1	3-7-4	
975AS121-12	3-7-3	

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CHAPTER 3A

SRU-41/P22P-20 SURVIVAL EQUIPMENT KIT BAG ASSEMBLY

Section 3A-1. Description

3A-1. GENERAL.

3A-2. The SRU-41/P22P-20 Liferaft and Survival Kit Bag is designed for use with E-2C aircraft as part of the A/P22P-20 Crew Backpack Assembly (figure 3A-1). The A/P22P-20 crew backpack assembly functions as a backrest for the aircrewmember, a container for the parachute assembly, a container for the emergency oxygen system, and a container for the liferaft and survival items. The SRU-41/P22P-20 Survival Kit Bag, P/N 351AS4000-1, is manufactured by Simula Safety Systems Inc, SEI Division/CAGE 05DK2.

NOTE

This chapter contains maintenance, inspection, and repair procedures for the SRU-41/P22P-20 only. Also included are Survival Kit Bag rigging and packing instructions, including installing the LRU-29/P22P-20 liferaft into the container. Refer to NAVAIR 13-1-6.2 for parachute information and to NAVAIR 13-1-6.4 for the E-2C emergency oxygen system. Refer to NAVAIR 13-1-6.1-1 for description and maintenance procedures for the LRU-29/P22P-20 liferaft.

3A-3. CONFIGURATION.

3A-4. The SRU-41/P22P-20 Liferaft and Survival Kit Bag (figure 3A-2) consists of a vacuum-sealed LRU-29/P22P-20 One-Man Liferaft Assembly, made up of an LRU-16 Liferaft, an FLU-10 Zero Leak Inflator, and a Survival Kit Bag Assembly. The survival kit contains the components listed in table 3A-1.

3A-5. SUBASSEMBLIES. The major subassemblies of SRU-41/P22P-20 are:

1. Survival kit bag assembly.
2. LRU-29 liferaft.

3A-6. REFERENCE NUMBERS, ITEMS AND SUPPLY DATA.

3A-7. Figures 3A-3 and 3A-4 contain information on each assembly, subassembly and component part for each SRU-41/P22P-20. The figure and index number, reference or part number, description and units per assembly are provided.

3A-8. APPLICATION.

3A-9. The SRU-41/P22P-20 Survival Kit Bag is part of the survival equipment included with the A/P22P-20 Crew Backpack Assembly used by aircrewmembers aboard E-2C aircraft.

3A-10. FUNCTION.

3A-11. The SRU-41/P22P-20 is not designed to be used independently of the A/P22P-20 crew backpack assembly. Refer to NAVAIR 13-1-6.2 for function of the entire system.

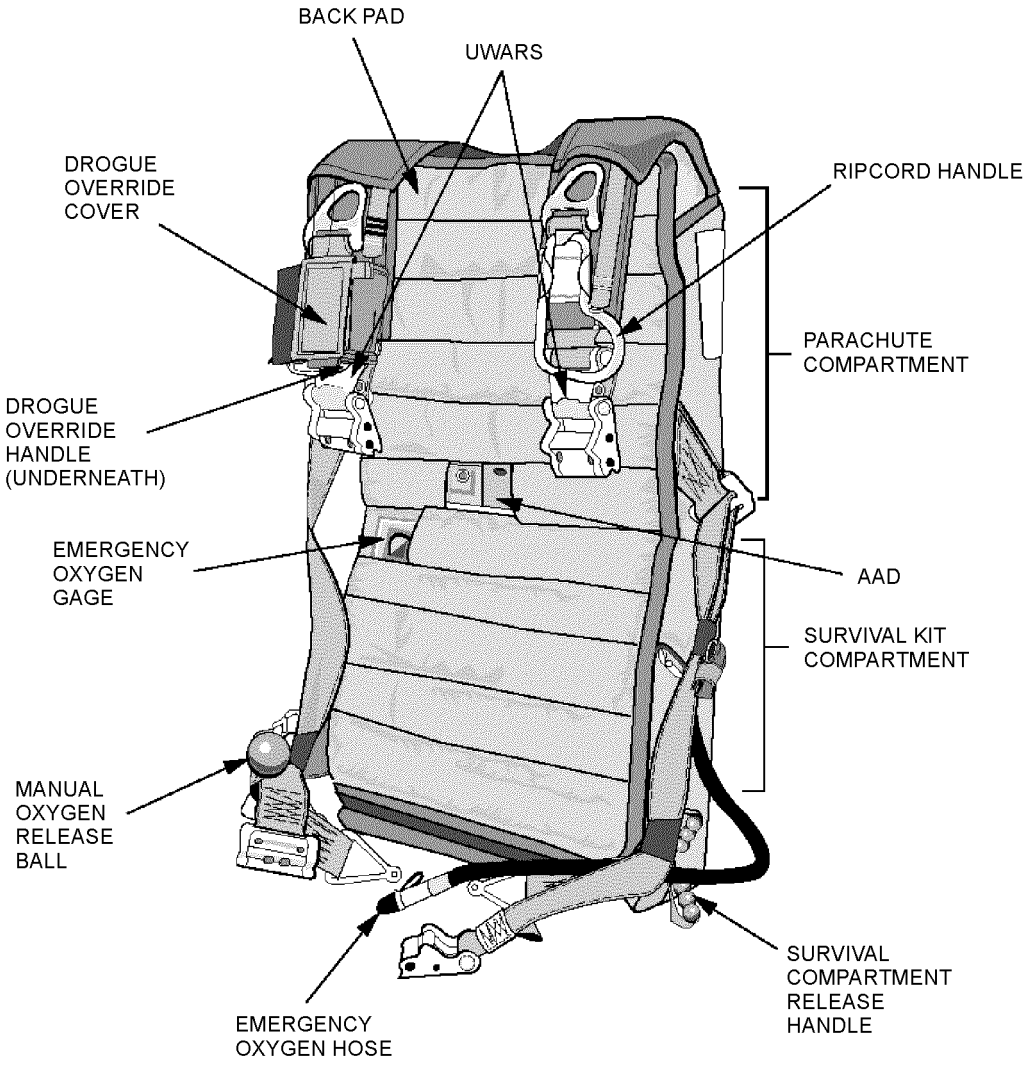

Figure 3A-1. A/P22P-20 Crew Backpack Assembly

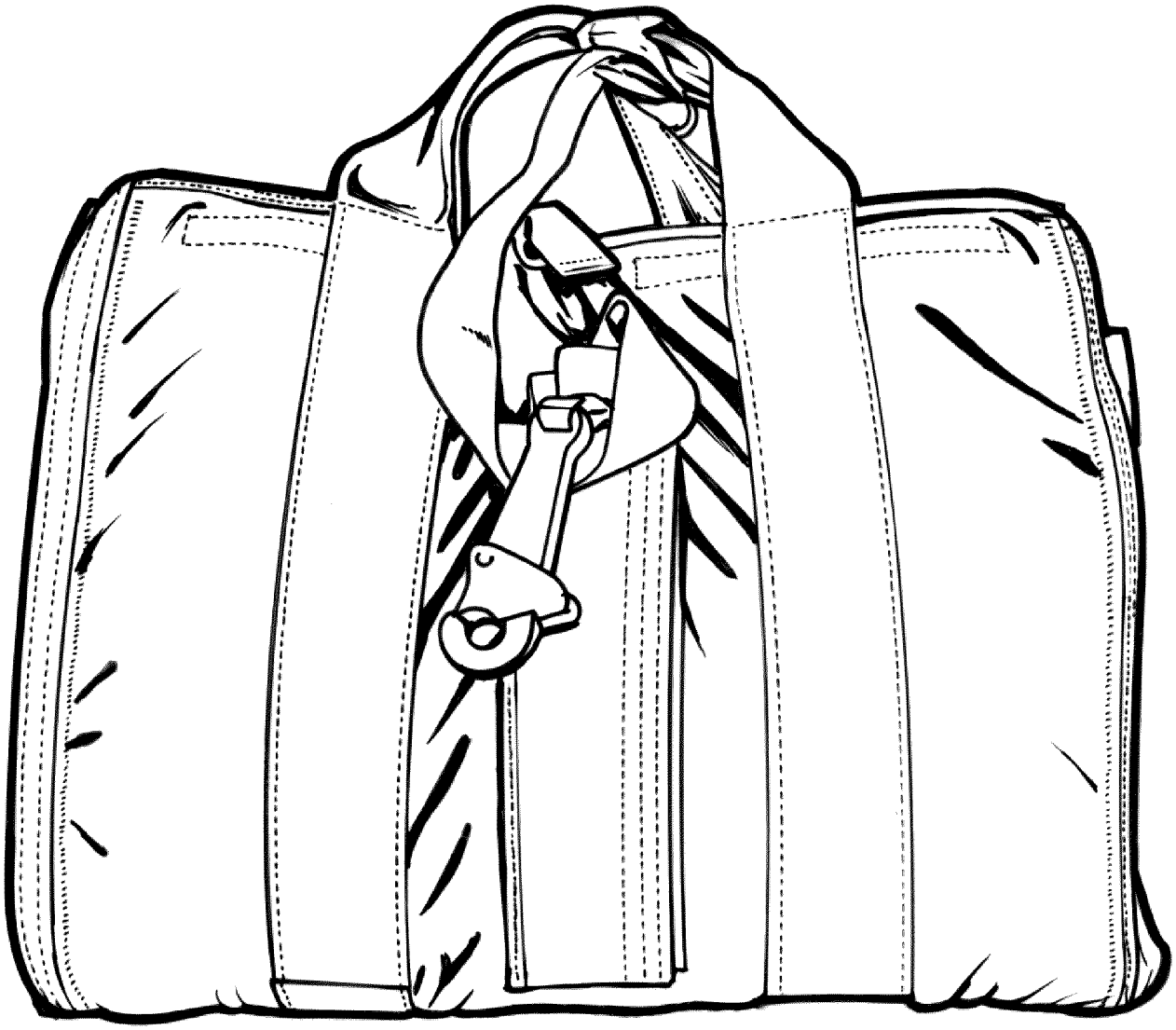

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Figure 3A-2. SRU-41/P22P-20 Liferaft and Survival Kit Bag

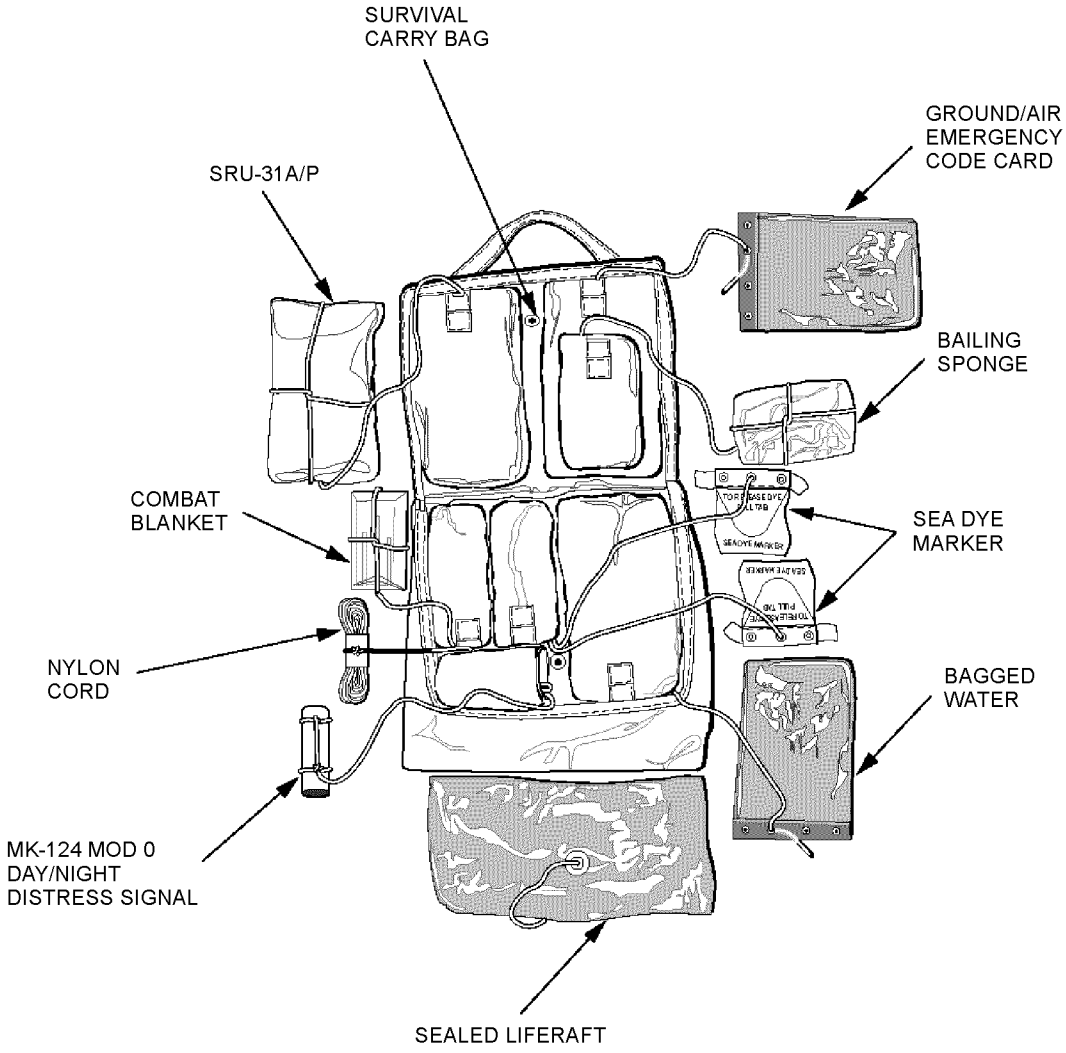

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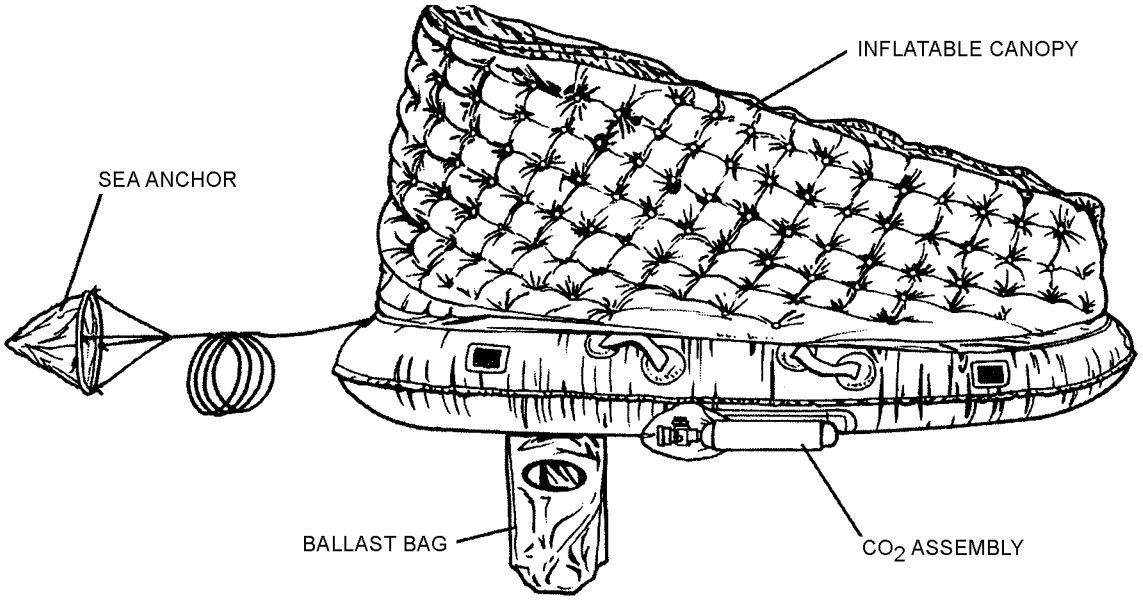
Figure 3A-3. SRU-41/P22P-20 Survival Equipment Compartment



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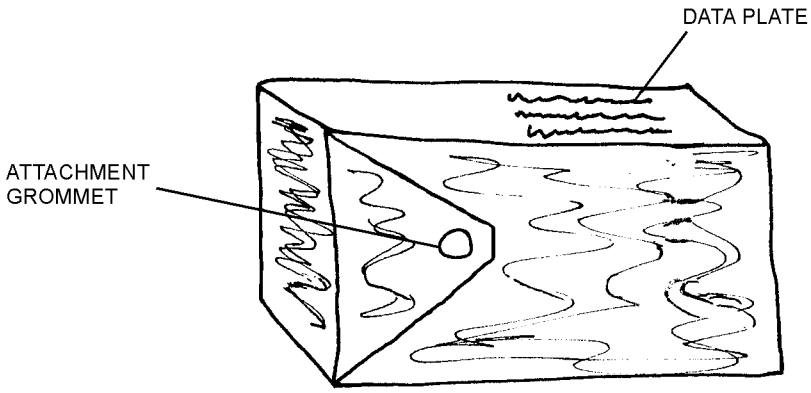

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Figure 3A-4. LRU-29/P22P-20 Liferaft

Section 3A-2. Modifications

3A-12. GENERAL.

3A-13. There are no modifications to the SRU-41/P22P-20 required/authorized at this time.

Section 3A-3. Rigging and Packing

3A-14. GENERAL.

3A-15. Unless operational requirements demand otherwise, rigging and packing of the SRU-41/P22P-20 survival equipment kit bag shall be accomplished at Intermediate Levels of maintenance by qualified personnel.

NOTE

Quality assurance steps are provided for critical operations when a step is underlined, the Aircrew Survival Equipmentman shall perform the operation and then have performance verified by Quality Assurance (QA).

3A-16. SURVIVAL EQUIPMENT BAG RIGGING, PACKING AND CLOSURE.

3A-17. To install the LRU-29 liferaft in the SRU-41 survival kit and close the survival kit bag, proceed as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Cord, Nylon, Type III	MIL-C-5040

1. Position survival kit bag in the open position.

2. Route the free end of the bridle cord through the loop, and pull cord tight forming a lark's head knot.

3. Position sealed liferaft so grommet and external bridle cord are up and CO_2 bottle side of sealed liferaft assembly faces outboard. Install sealed liferaft assembly into raft pocket, bottle end last.

4. Fold the survival kit side of the kit bag over so that it is on top of the liferaft.

5. Locate loops and pass lanyard loop through bridle loop.

6. Route the loop end of the liferaft lanyard through the liferaft bridle cord and survival equipment handle.

7. Pass the hook end of the liferaft external lanyard through the lanyard loop, and pull lanyard all the way through and tighten to form a lark's head knot.

8. Stow excess liferaft bridle cord inside liferaft pocket by S-folding and placing on top of raft. Close liferaft flap and mate hook and pile tape. Liferaft bridle cord shall exit to the right of center hook and pile tape attachment.

9. Cut a 36-inch length of nylon cord and remove inner strands to make a pull up cord.

10. Unzip survival compartment to the corners. Place a pull-up cord through the closing loop of the liferaft pocket side, and pull free ends of pull-up cord through both grommets of the survival equipment side of the kit bag.

11. Using the pull-up cord, pull the closing loop through both grommets, slide the curved pin on the liferaft external lanyard through the locking loop, toward equipment bag handles and remove pull-up cord. Zip compartment closed.

12. S-fold the liferaft lanyard in 6-inch bights, with first bight located at the bottom of the lanyard flap and stow inside of the lanyard flap on the outside of the kit bag until the end of the hook is even with the lanyard flap.

13. Tack lanyard flap to bag in upper corner of velcro with one turn E thread, tie off with surgeon's and square knot.

3A-18. SURVIVAL EQUIPMENT BINDING. To bind survival items, proceed as follows (table 3A-1):

NOTE

To prevent loss of survival items, tie items individually and then tie to SRU-41/P22P-20 survival equipment compartment. Nylon cord of prescribed lengths required for this procedure shall be seared at both ends to prevent fraying (table 3A-2). Secure all S-folded retaining cord using a rubber band.

Survival items shall be stowed in a neat and orderly fashion and the items shall be arranged to prevent a distorted pack.

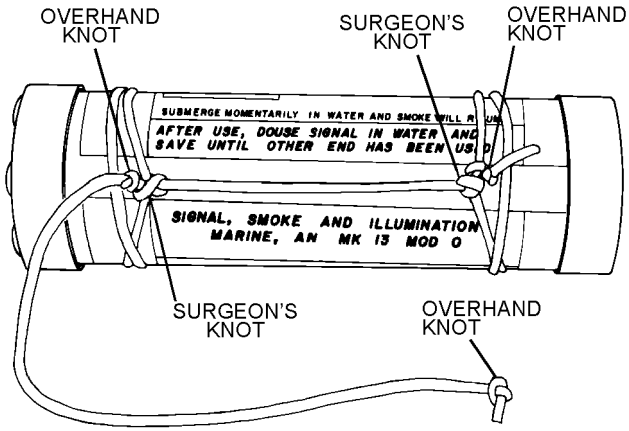
Materials Required

Quantity	Description	Reference Number
As Required	Rubber Bands	NSN 7510-00-285-1787
As Required	Vinyl Envelope	NSN 8105-00-334-4120
As Required	Cord, Type 1A	MIL-C-5040
As Required	Thread, Nylon, Type I/II, Class A, Size E	V-T-295

1. Using a 30-inch piece of nylon cord, tie an overhand knot in each end. Wrap end of cord two turns around one end of a MK 124 MOD 0 signal flare and tie with a surgeon's knot. Turns of cord shall overlap and all knots shall be positioned snugly against each other.

2. Route cord to opposite end of signal flare and tie in the same manner as step one. The cord between ties shall be drawn tightly.

3. Attach the other end of the nylon cord to the secure loop of the pocket identified flare in figure 3A-3 using a bowline knot allowing for a 1-inch loop. Store MK124 in pocket. S-fold excess cord and store in pocket with item Secure hook and pile fastener.



Step 3 - Para 3A-18

4. Using a 30-inch piece of nylon cord, tie an overhand knot near each end. Pass overhand knot through center grommet in dye marker and tie a bowline knot, allowing approximately a 1-inch loop. Bowline knot shall lie snugly against overhand knot.

Step 4 - Para 3A-18

5. Attach the other end of the nylon cord to the secure loop of the pocket identified sea dye marker in figure 3A-3 using a bowline knot allowing for a 1-inch loop.

Table 3A-1. Survival Kit Equipment (Note 1)

Item Name	Quantity	Reference Number
Nylon Cord, Type I	50 ft	NAVAIR 13-1-6.5
Day/Night Distress Signal, MK-13 MOD 0 or MK-124 MOD 0	1	NAVAIR 13-1-6.5
Sea Dye Marker	2	NAVAIR 13-1-6.5
Bailing Sponge, Type II, Class 2	1	NAVAIR 13-1-6.5
SRU-31A/P (Note 2)	1	NAVAIR 13-1-6.5
Bagged Water, Drinking	3	NAVAIR 13-1-6.5
Envelope, Packing List	1	NAVAIR 13-1-6.5
Ground/Air Emergency Code Card	1	NAVAIR 13-1-6.5
Combat Casualty Blanket	1	NAVAIR 13-1-6.5
Tourniquet	1	NAVAIR 13-1-6.5

Notes:
1. The items listed are typical and are considered mandatory for inclusion in the survival kit container. Deviation from the listed items may be required by certain Functional Air Wings (FUNCWINGS), Carrier Air Wings (CVW), COMFAIRS, or Marine Air Wings (MAW). Requests for deviations must be forwarded to and authorized by TYCOMS and with information to Fleet Support Team (FST) at NAVAIRWARCENACDIV Patuxent River MD via Naval Message. When optional items are substituted, particular attention must be paid to the binding sequence so that physical sizes and binding order of substituted items remain approximately the same. That portion of an item name in parentheses is a common-use name or container size and is not intended for supply requisition purposes.
2. For contents of the SRU-31A/P Individual Aircrewmember's Survival Kit reference NAVAIR 13-1-6.5, for detailed information.

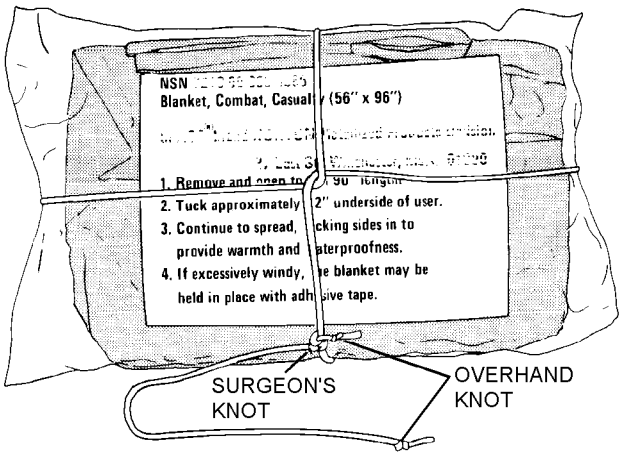
Table 3A-2. Nylon Cord Lengths Required for Binding

Length (Inches)	No. Required
12	2
24	1
30	4
36	1

Notes:
1. Only authorized water bags are to be used in accordance with table 3-1 and NAVAIR 13-1-6.5 technical manual.
2. All items shall be tethered using a bowline knot followed by an overhand knot.

6. Tie second dye marker in the same manner as steps 3 and 4. Store sea dye markers in the pocket identified sea dye marker in figure 3A-3. S-fold excess cord and store in pocket with item. Secure hook and pile fastener.

7. To secure the combat casualty blanket, tie an overhand knot near each end of a 24-inch piece of nylon cord. Wrap cord around blanket until cord ends meet, then rotate cords 1/4 turn and wrap cords around opposite sides of blanket. Tie with a surgeon's knot. Attach the other end of the nylon cord to the secure loop of the pocket identified blanket in figure 3A-3 using a bowline knot allowing for a 1-inch loop. S-fold excess cord and store in pocket with item. Secure hook and pile fastener.



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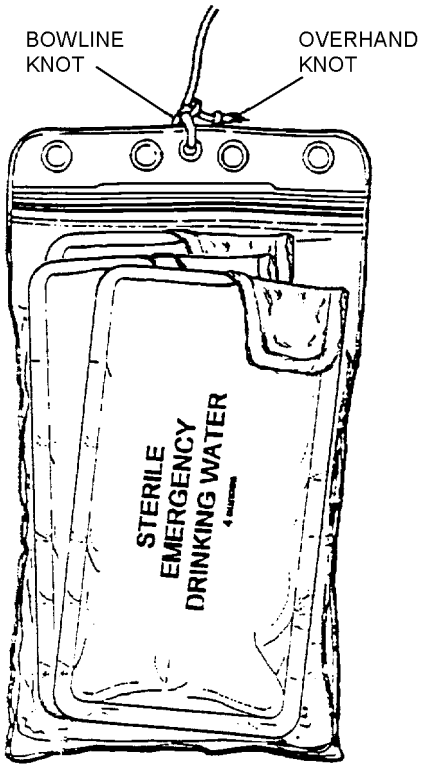
Step 7 - Para 3A-18

8. To secure bagged emergency water, place 3 bagged emergency drinking water flat inside a clear vinyl envelope (MIL-B-117) with pour spout folded down. Bagged water must be able to fit into an envelope without disrupting the closure of the sealing slide fastener. Using a 30-inch length of cord, tie an overhand knot on each end and pass knot through center hole in envelope. Secure with bowline knot, allowing an approximate 1-inch loop. Attach the other end of the nylon cord to the secure loop of the pocket identified water in figure 3A-3 using a bowline knot allowing for a 1-inch loop. S-fold excess cord and store in pocket with item. Secure hook and pile fastener.



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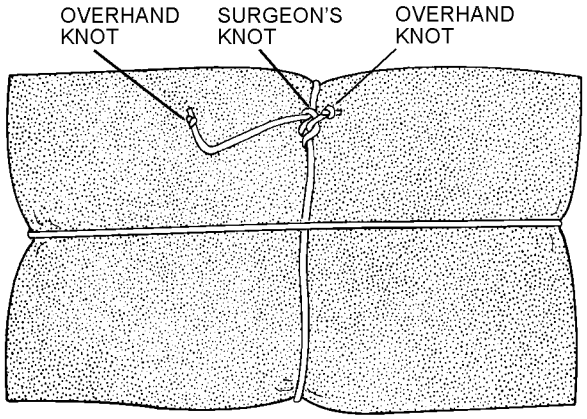
Step 8 - Para 3A-18

NOTE

The bailing sponge should be compressed to a minimum thickness while damp and then allowed to dry in the compressed state before tying.

9. Using a 30-inch length of nylon cord, tie an overhand knot near ends. Wrap cord around sponge until cord ends meet, then rotate cords 1/4 turn and wrap cords around opposite sides of sponge. Tie with a surgeon's knot. Attach the other end of the nylon cord to the secure loop of the pocket identified bailing sponge in figure 3A-3 using a bowline knot allowing for a 1-inch loop. S-fold excess cord and store in pocket with item. Secure hook and pile fastener.



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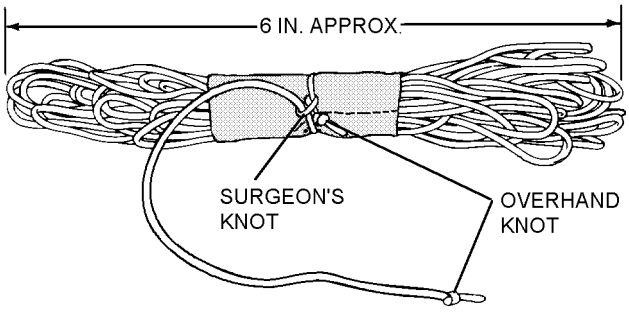
Step 9 - Para 3A-18

10. Cut one 2 x 3-inch piece of nylon duck material. Accordion-fold 50-foot length of Type I or IA nylon cord in 6 inch bights, and wrap material around center of folded cord. Using a 12-inch piece of nylon cord, tie an overhand knot near each end and secure one end of cord to center of material with a surgeon's knot. Attach the other end of the nylon cord to the secure loop of the pocket identified nylon cord in figure 3A-3 using a bowline knot allowing for a 1-inch loop. S-fold excess cord and store in pocket with item. Secure hook and pile fastener.



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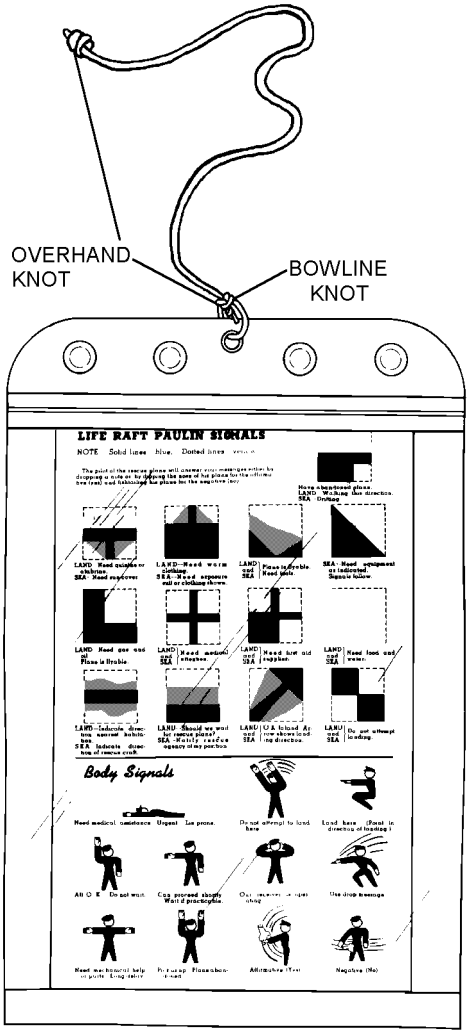
Step 10 - Para 3A-18

11. Place ground/air emergency code card into clear vinyl plastic envelope (MIL-B-117) and close sealing zipper. Using a 24-inch length of nylon cord, tie an overhand knot near each end and pass knot through center hole in envelope. Secure with bowline knot, allowing a 1-inch loop. Attach the other end of the nylon cord to the secure loop of the pocket identified ground/air emergency code card in figure 3A-3 using a bowline knot allowing for a 1-inch loop. S-fold excess cord and store in pocket with item. Secure hook and pile fastener.



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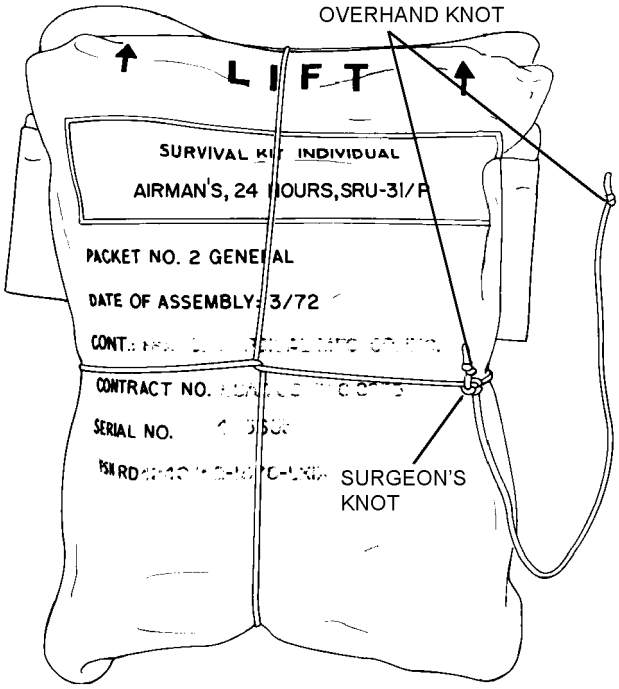
Step 11 - Para 3A-18

12. Using a 36-inch length of nylon cord, tie an overhand knot in both ends. Wrap cord around SRU-31A/P survival kit until cord ends meet, then rotate cords 1/4 turn and wrap cords around opposite sides of packet. Tie with a surgeon's knot. Attach the other end of the nylon cord to the secure loop of the packet identified SRU-31A/P survival kit in figure 3A-3 using a bowline knot allowing for a 1-inch loop. S-fold excess cord and store in pocket with item. Secure hook and pile fastener.



Step 12 - Para 3A-18

13. Zip survival equipment compartment closed.

Section 3A-4. Inspection

3A-19. GENERAL.

3A-20. The SRU-41/P22P-20 Survival Equipment Kit Bag Assembly shall be subjected to the following inspections: Acceptance, Place-In-Service, Daily/Turn-around, Special 14-Day, Special 448-Day, and Special 1792-Day (Repack/Overhaul).

NOTE

Quality assurance steps are provided for critical operations when a step is underlined, the Aircrew Survival Equipmentman shall perform the operation and then have performance verified by Quality Assurance (QA).

3A-21. INSPECTION PROCEDURES.

3A-22. The Place-In-Service inspection shall be performed on all new assemblies, or assemblies returned from vendor repair or overhaul. The AIMD performs this inspection.

3A-23. The Daily/Turnaround inspection is performed on aircraft installed assemblies, in accordance with aircraft MRC requirements.

3A-24. The 14-Day Special Inspection shall be accomplished at the organizational level.

3A-25. The 448-Day Special Inspection shall be accomplished at the AIMD.

3A-26. The 1792-Day Special Inspection (Repack/Overhaul) will be accomplished by AIMD and the vendor designated to perform the repack/overhaul. AIMD will forward the LRU-29A/P22P-20 to the designated vendor. AIMD may install a spare raft to RFI the backpack assembly and place the overhauled liferaft in the ALSS Pool upon its return from the vendor.

3A-27. All liferafts shall be subjected to Phase/Isochronal/Special Inspections prior to placing in service or, if an aircraft inventory item, at the time of the aircraft Acceptance Inspection. Thereafter the inspection interval shall coincide with the aircraft inspection cycle in which the equipment is installed. See the applicable aircraft maintenance instruction manuals or MRCs.

3A-28. ACCEPTANCE INSPECTION. Acceptance Inspection shall be accomplished during the aircraft inventory and include inspection of the SRU-41 at the time the A/P22P-20 Crew Backpack Assembly is received by an activity. In this case, the records concerning the crew backpack shall be examined.

3A-29. VISUAL INSPECTION. The visual inspection shall be performed prior to packing of liferaft and survival items, for rips, cuts, wear, contamination, damage, moving parts for ease of operation, handles and hardware for security of attachment and general condition.

3A-30. PLACE-IN-SERVICE INSPECTION. To perform the Place-In-Service Inspection, proceed as follows:

1. The A/P22P-20 Crew Backpack Assembly is received from the manufacturer assembled and ready to be placed in the aircraft. The Place-In-Service Inspection consists of a visual inspection of the assembly and a records check to ensure all data is entered on the history records. If there are no discrepancies discovered during the visual or records inspection the A/P22P-20 can be placed in service. If discrepancies exist that require the opening of the Survival Kit, refer to paragraph 3A-33 of this manual and OPNAVINST 4790.2 Series.

CAUTION

Do not use sharp objects in the vicinity of the SRU-41/P22P-20 to prevent damage to the survival equipment and/or LRU-29/P22P-20 liferaft. Ensure the surface where you place the liferaft is smooth and free of splinters. Liferafts that have lost vacuum must be returned to the vendor for rework.

3A-31. 14-DAY AND 448-DAY SPECIAL INSPECTION. To perform a 14-Day or 448-Day Special Inspection, proceed as follows:

CAUTION

Do not open the assembly for this inspection, break any seals or safety ties. This is a visual inspection only.

1. Inspect the A/P22P-21 assembly for obvious defects, torn stitching, corrosion, stains, cuts, tears, deterioration and abrasion.

2. Inspect liferaft retaining lanyard for proper stowage, corrosion, contamination, wear or other damage.

3A-32. 1792-DAY SPECIAL INSPECTION (REPACK/OVERHAUL). To perform the 1792-Day Special Inspection, proceed as follows:

1. Inspect liferaft in accordance with NAVAIR 13-1-6.1-1.

2. Inspect survival equipment container and equipment in accordance with paragraph 3A-33.

3A-33. INSPECTION OF SURVIVAL EQUIPMENT KIT BAG ASSEMBLY AND LANYARD ASSEMBLY.

1. Remove survival equipment items and inspect in accordance with NAVAIR 13-1-6.5.

NOTE

Survival items reaching overage while packed in survival kits and raft shall remain in service until the next inspection cycle of the completed assembly.

Survival items shall remain tied to the container unless a replacement of an item or a retaining cord is required.

Length of retaining cords shall be measured with items tied to container. For length of retaining cord, refer to table 3A-2.

2. Inspect retaining cord for damage. Replace in accordance with table 3A-2 and paragraph 3A-18.

3. Inspect the survival kit bag and side shoulder carrying strap hardware, webbing, hook and pile fasteners for contamination, cuts, tears, corrosion, zipper for proper operation or damaged zipper chain and/or other damage and then restow shoulder carrying strap.

4. Inspect outer nameplate to contain the following:

a. SRU-41/P22P-20

b. Survival Equipment Kit Bag Assembly

c. PN: 3516AS4000-1

d. DA CAGE: 30003

e. MFG CODE: 05DK2

f. CONTRACT: NXXXXX-XX-X-XXXXX (Example: N68936-98-D-0077)

g. DOM: Mon/Yr (Example: 12/99)

5. Inspect inner name plate to contain the following:

a. SURVIVAL CARRY BAG

b. PN: 3516AS4100-1

c. MFG CODE: 05DK2

d. CONTRACT: NXXXXX-XX-X-XXXX (Example: N68936-98-D-0077)

e. DOM: Mon/Yr (Example: 12/99)

Section 3A-5. Maintenance

3A-34. GENERAL.

3A-35. This section contains procedures for disassembly, cleaning, and inspection of disassembled parts, and repair or replacement of parts for the SRU-41/P22P-20 liferaft and survival kit container.

3A-36. DISASSEMBLY.

3A-37. To disassemble the SRU-41/P22P-20 container, proceed as follows:

CAUTION

When opening the SRU-41/P22P-20 survival kit container, be careful not to inadvertently actuate LRU-29/P22P-20 liferaft by pulling on the bridle cord.

1. Remove curved pin and slowly unfold SRU-41/P22P-20 survival bag assembly.

2. Remove yellow liferaft retaining lanyard from SRU-41/P22P-20 survival kit container.

3. Remove white liferaft bridle cord from liferaft lanyard.

CAUTION

Do not use sharp objects in the vicinity of the SRU-41/P22P-20 to prevent damage to the survival equipment and/or LRU-29/P22P-20 liferaft. Ensure the surface where you place the liferaft is smooth and free of splinters. Liferafts that have lost vacuum must be returned to the vendor for rework.

4. Remove liferaft and inspect liferaft in accordance with NAVAIR 13-1-6.1-1.

CAUTION

Do not use sharp objects in the vicinity of the vacuum-sealed LRU-29/P22P-20 liferaft. Ensure the surface where you place the liferaft is smooth and free of splinters. Do not lift the liferaft by the grommet or tear strip as it may open tear the vacuum seal at the initiator cuts. Liferafts that have lost vacuum must be returned to the vendor for rework.

5. Inspect Survival Equipment Kit Bag and Lanyard Assembly in accordance with paragraph 3A-33.

6. Inspect Survival Equipment in accordance with NAVAIR 13-1-6.5 and table 3A-2.

3A-38. CLEANING.

3A-39. To clean the SRU-41 container, proceed as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Cleaning Compound	MIL-L-25769
As Required	Detergent, General Purpose	MIL-D-16791
As Required	Lint-free Cloth	MIL-C-85043 NIIN 00-044-9281

1. To clean the survival kit bag of dust and dirt, wipe with a damp cloth. If areas are soiled with grease or oil, moisten cloth with general-purpose detergent (MIL-D-16791) before using.

2. Immediately dry with clean, lint-free cloth.

3A-40. INSTALLATION OF SURVIVAL EQUIPMENT.

1. Install survival items in accordance with paragraph 3A-18, excess retaining cord shall be S-folded and held in place using a rubber band.

2. Close survival equipment side of container and center sliders.

3A-41. REPAIR AND REPLACEMENT.

3A-42. REPAIR. Repair of individual components within any assembly is authorized only in accordance with procedures outlined in this manual. All authorized repairs performed shall be documented by making necessary entries on appropriate form in accordance with OPNAVINST 4790.2 Series.

3A-43. REPLACEMENT. All individual components that fail to pass inspection shall be replaced except where a repair procedure is indicated. Refer to source code listing (SM&R Code) in the Numerical Index of the Illustrated Parts Breakdown to aid in determining replaceable components. All adjustable components or assemblies that have failed to pass respective tests shall be readjusted to meet required specification.

Section 3A-6. Fabrication

3A-44. GENERAL.

3A-45. This section contains instructions for fabrication of tools and components that can be manufactured by local maintenance activities.

3A-46. FABRICATION PROCEDURES.

3A-47. LIFERAFT LANYARD. To fabricate a lanyard, proceed as follows:

Materials Required

Quantity	Description	Reference Number
1	Snap Hook	MS27756
118″	Webbing, Nylon Type II, 1-inch Yellow	MIL-W-4088 NIIN 00-262-1642
As Required	Thread, Nylon, Type II, Size E	V-T-295 NIIN 00-204-3884

1. Lay out webbing and position identification yarn on top before proceeding.

2. Construct a drop line in accordance with figure 3A-5.

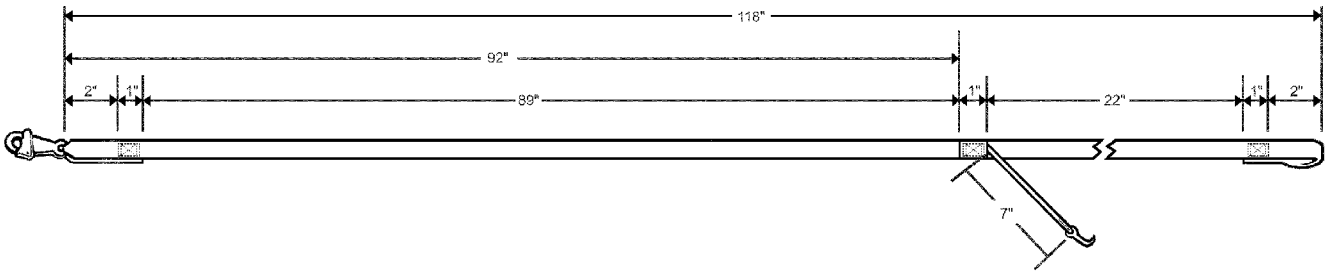
3. Sear exposed ends of webbing.

4. All stitching shall be Type 301, ASTM-D-6193, 8 to 10 stitches per inch, and backstitch 1/2 inch minimum.

5. Use Box X stitch 1/2 inch by 2 inch.

NOTE

When fabricating lanyard, the snap hooks must be inserted on lanyard prior to doing any box stitching. Otherwise, lanyard will not go through holes in the hook.



003a005

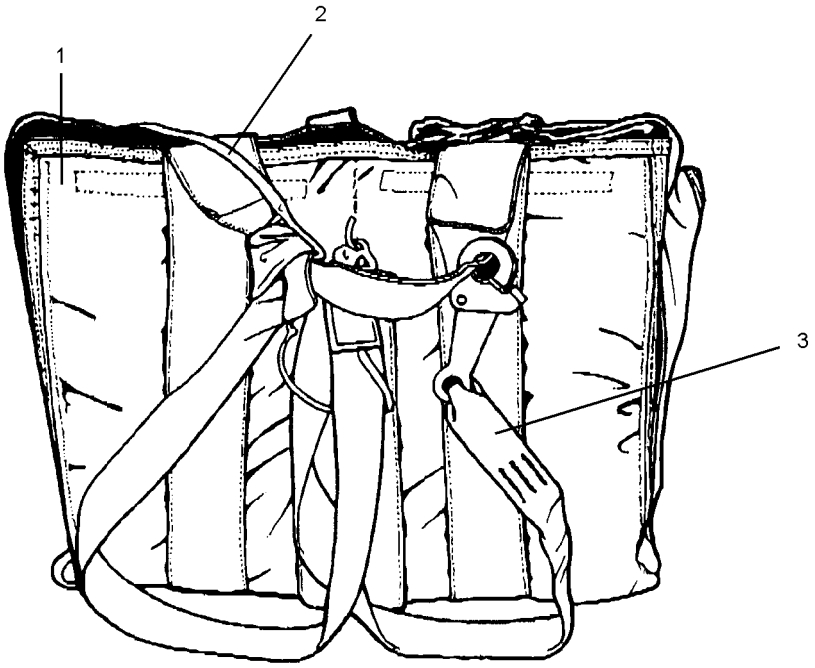
Figure 3A-5. Liferaft Lanyard

Section 3A-7. Illustrated Parts Breakdown (IPB)

3A-48. GENERAL.

3A-49. This section lists and illustrates the assemblies and detail parts of the SRU-41 Survival Kit Container Assembly (figure 3A-6).

3A-50. The Illustrated Parts Breakdown should be used during maintenance when requisitioning and identifying parts.



003a006

Figure 3A-6. SRU-41/P22P-20 Liferaft and Survival Kit Bag Assembly

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
3A-6-	3516AS4000	LIFERAFT AND SURVIVAL KIT BAG . . . . . ASSEMBLY SRU-41/P22P-20 (30003)	REF	
-1	3516AS4100-1	. SURVIVAL KIT ASSEMBLY SRU-41 . . . . . (30003)	1	
-2	3516AS4300-1	. LIFERAFT BRIDLE CORD ASSEMBLY	1	
-3	3516AS4400-1	. LIFERAFT LANYARD ASSEMBLY	1	

NUMERICAL INDEX

Part Number	Figure and Index Number	SM&R Code
3516AS4000	3A-6	
3516AS4100-1	3A-6-1	
3516AS4300-1	3A-6-2	
3516AS4400-1	3A-6-3	

CHAPTER 4

REGULATOR AND SEAT SURVIVAL KIT OXYGEN HOSE ASSEMBLIES

Section 4-1. Description

4-1. GENERAL.

4-2. The oxygen hose assemblies are designed for use in conjunction with the seat survival kit and oxygen mask assemblies providing the aircrew with oxygen, either liquid oxygen (LOX) or Onboard Oxygen Generating System (OBOGS) and communication capabilities (figure 4-1).

4-3. CONFIGURATION.

4-4. The oxygen hose assemblies are fabricated of either a nomex weave or rubberized material covering a flexible rubber hose that is wire wound for stability. At the upper end of the seat kit to regulator hose and seat kit to console and the lower end of the regulator hose assemblies are quick disconnect fittings. The communication cord is either internal or external depending on aircraft platform (figures 4-2 and 4-3).

4-5. If failure occurs in the aircraft oxygen supply, or in case of high altitude or over water ejection, an emergency supply of oxygen will be provided by either manual or automatic actuation from the emergency oxygen cylinder located in the seat survival kit.

4-6. SUBASSEMBLIES. The major subassemblies of the OBOGS oxygen regulator hose assembly and seat kit hose assembly are:

1. Oxygen Hose Assemblies Seat Survival Kit.
   a. Cable/Keeper Assembly
   b. Oxygen Hose, Subassembly, Short
   c. Oxygen Hose Subassembly, Long
2. Oxygen Hose Assemblies Regulator.
   a. Cable/Keeper Assembly.
   b. Oxygen Hose, Subassembly

NOTE

LOX regulator and Seat Survival Kits Hose Assemblies using LOX do not have subassemblies.

4-7. REFERENCE NUMBERS, ITEMS AND SUPPLY DATA.

4-8. Figures 4-13 through 4-22 contain information on each assembly, subassembly and component part of the oxygen hose assemblies. The figure and index number references or part number, description, and units per assembly are provided in their respective figures.

4-9. APPLICATION.

4-10. The oxygen hose assemblies that are part of the survival equipment used by aircrew aboard aircraft are listed in table 4-1.

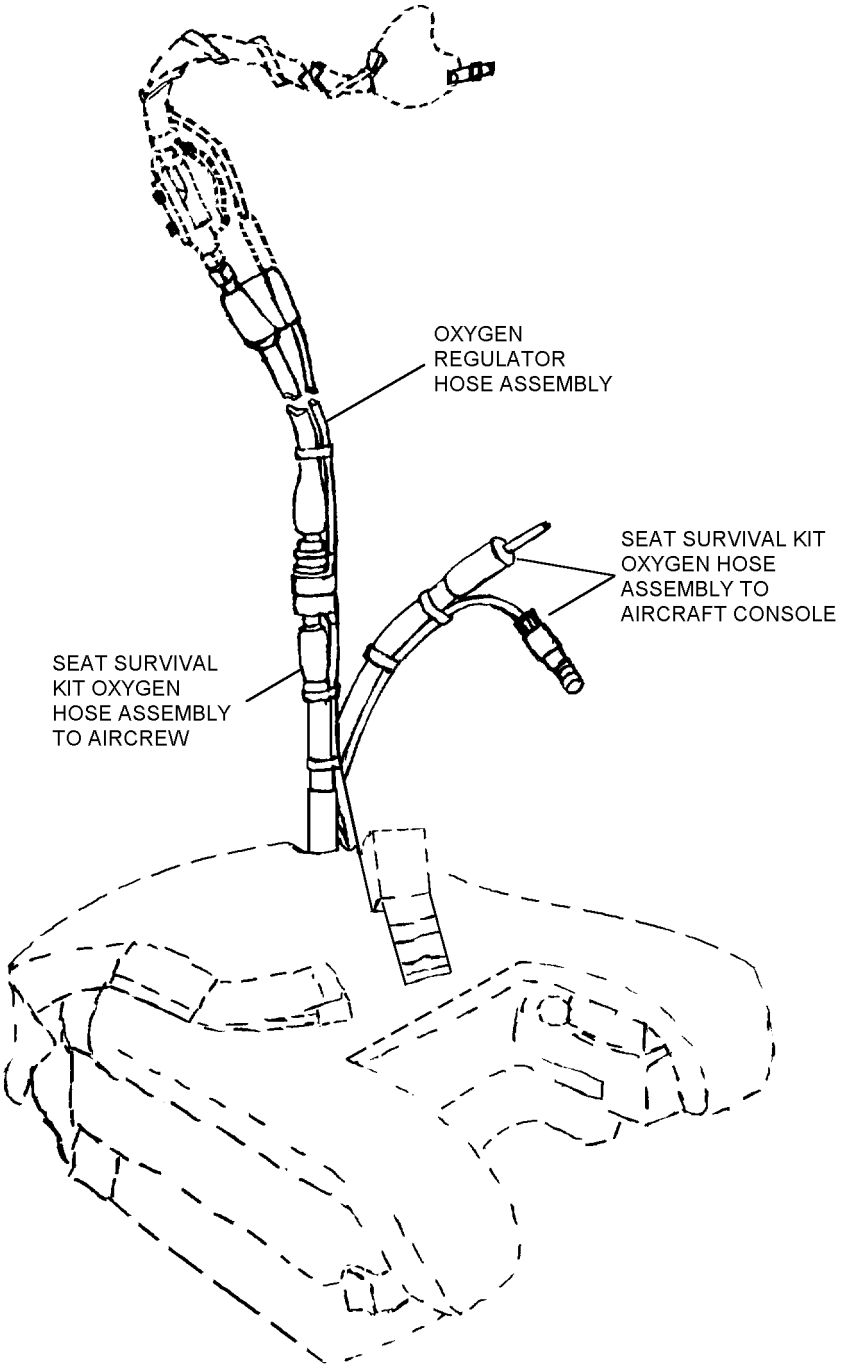


Figure 4-1. Oxygen Hose Assemblies Configuration (Typical)

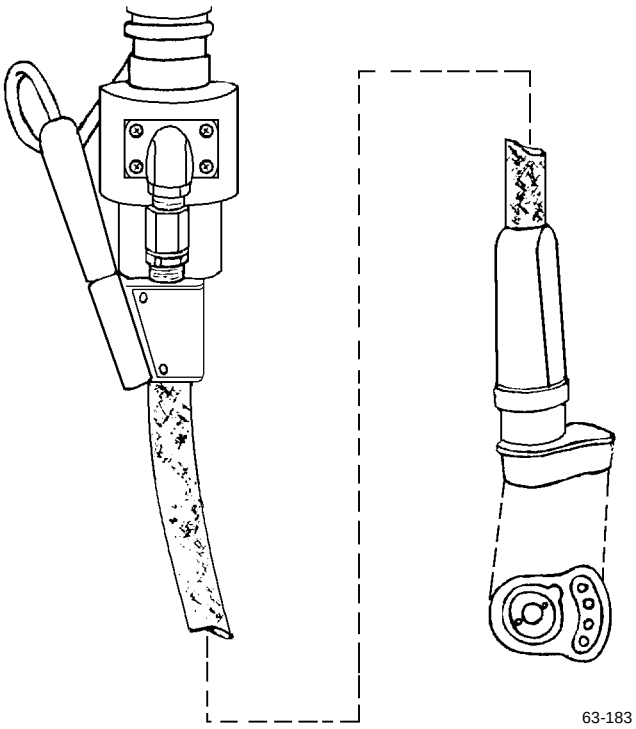


Figure 4-2. Oxygen Regulator Hose Assembly (Typical. Used for Liquid Oxygen Only)

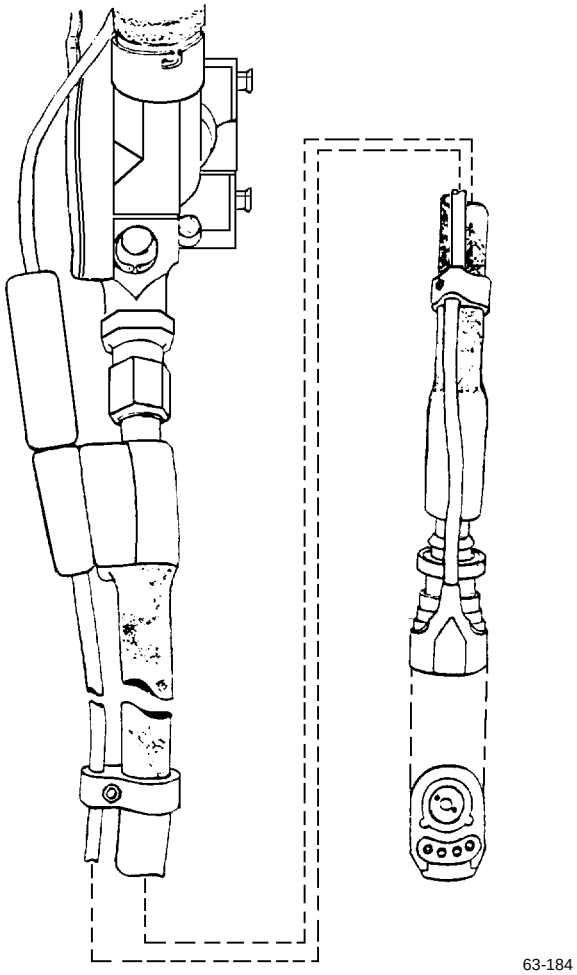


Figure 4-3. Oxygen Regulator Hose Assembly (Typical. Used for OBOGS Only)

Table 4-1. Regulator Hose Assembly Part Numbers and Application

Part Number	Aircraft Platform	OBOGS/LOX	External or Internal Communication Cord
REDAR-A10116-2	EA-6B, F-4, F-14A/B, F-18A/B/C/D, S-3A, T-2	LOX	Internal communication cord
57012-3 MBEU147722-1	F-14D, F-18C/D, T-45/A (NACES equipped)	OBOGS	External communication cord
REDAR-A11206-2	AV-8B	OBOGS	Internal communication cord

4-11. FUNCTION.

4-12. During normal flight conditions, the hose assembly supplies the aircrew with aviators breathing oxygen and a means of communication to ground crew and other aircraft/aircrewman. Oxygen flows through the hose assembly from the aircraft through the seat survival kit hose assembly i.e.; aircraft oxygen supply source to the seat survival kit hose, seat survival kit oxygen manifold, seat survival kit to regulator hose, regulator hose, regulator, mask hose, mask, reaching its final destination the aircrew. When an aircrewman ejects from the aircraft the following series of events occur: As the ejection seat travels up the rails, the seat survival kit to console hose is disconnected and the emergency oxygen lanyard actuates the emergency oxygen in the seat survival kit. During the ejection and descent, while in the seat or after separation from the ejection seat, the aircrewman is provided with emergency oxygen until the supply is exhausted. Also, in the event of an in-flight emergency the aircrew has the capability of actuating the emergency oxygen system in the seat survival kit by pulling the actuation lanyard manually.

Section 4-2. Modifications

4-13. GENERAL.

4-14. There are no modifications to the Regulator and Seat Survival Kit Oxygen Hose Assemblies required/authorized at this time.

Section 4-3. Rigging

4-15. GENERAL.

4-16. Unless operational requirements demand otherwise, rigging of the regulator hose assemblies shall be accomplished at the Organizational Level of maintenance. All rigging shall be performed only by qualified personnel every 30 and 90 day inspection cycle.

4-17. The rigging of the seat survival kit hose assemblies shall be accomplished at the Intermediate Level of maintenance coinciding with the seat survival kit inspection cycle and shall be performed only by qualified personnel.

NOTE

Quality assurance steps are provided for critical operations. When a step is underlined, the Aircrew Survival Equipmentmen shall perform the operation and then have performance verified by Quality Assurance (QA).

4-18. RIGGING PROCEDURES.

4-19. Refer to NAVAIR 13-1-6.7-3 for procedures on rigging the regulator hose assembly to the regulator.

4-20. Refer to paragraph 4-54 for rigging the seat survival kit oxygen hose assemblies to seat survival kits.

Section 4-4. Turnaround Daily/Preflight/Postflight/Transfer/ Special/Conditional Inspection

4-21. GENERAL.

4-22. The Turnaround/Daily/Preflight/Postflight/ Transfer Inspections on the regulator hose assemblies consist of a visual type inspection performed in conjunction with the personal issue gear. This inspection shall be performed by the aircrewmember to whom the regulator hose assemblies have been issued. The seat survival kit hose assemblies also have a visual type inspection and shall be inspected in conjunction with the aircraft in which the survival kit is installed. The seat survival kit hose assemblies shall be inspected by line personnel (plane captain) or delegated aircrewmember who have been instructed and found qualified by the Aviator's Equipment Branch.

4-23. The Conditional Inspection is an unscheduled inspection required as the result of a specific situation or set of conditions: e.g., hard-landing inspection or any inspection directed by higher authority that is not ordered in technical directives.

4-24. The Special (7/14 day) Inspection shall be performed on in-service seat survival kit oxygen hose assemblies installed in aircraft and in readyroom issue. The Special (30/90 day) Inspection that is performed on the aircrew personal issued flight equipment includes the regulator hose assembly. These inspections shall be performed at the Organizational Level of maintenance by personnel assigned to the Aviator's Equipment Branch. Make necessary entries on appropriate form in accordance with the OPNAVINST 4790.2 Series.

4-25. DAILY/PREFLIGHT/POSTFLIGHT AND SPECIAL INSPECTION PROCEDURES. These inspections consists of a visual inspection of the following:

1. Deterioration such as wear, thin spots, holes, or cracks in or near the lower portion of the molded hose adjoining the attached flare nuts.

2. Deterioration, corrosion, cracks, holes, or excessive wear in any portion of the hose or its connecting hardware.

3. Hoses for obvious damage, wear, splits, cuts, frayed fabric.

4. Quick disconnects for damage, corrosion, bent or missing pins, cleanliness and presents of foreign materials.

5. Housing for damage, cuts, nicks, discoloration, wear.

6. Fittings for damage threads, rounded hexagon flats, corrosion.

7. Electrical condition of hose assemblies when performing a Transfer and Special (30/90 day) Inspection in accordance with paragraph 4-31.

8. Condition of oxygen hose and security of attachment to kit. If repair procedures have been performed on oxygen hose assembly, check external wiring for security of attachment and check electrical condition in accordance with paragraph 4-31.

NOTE

All oxygen regulator hose assemblies and seat survival kit oxygen hose assemblies have been designated as critical safety items and must be serialized. It is suggested that a logbook be maintained for serial numbers that have been assigned to prevent duplication of serial numbers.

Oxygen regulator hose assembly and/or seat survival kit oxygen hose assembly data and compliance previously recorded on Aircrew Personal Equipment Record (OPNAV Form 4790/159) or Seat Survival Kit Record (OPNAV Form 4790/137) shall be considered RFI until the next Phased/SDLM inspection. During acceptance inspection or at next Phased/SDLM inspection, oxygen regulator hose assembly and/or seat survival kit oxygen hose assembly data records shall be updated in accordance with paragraph 9, steps a. and b.

9. Presence and legibility of serial number on quick disconnects. If not present or if illegible, proceed as follows:

a. Carefully etch a serial number using the squadron organization code and sequential number on the quick disconnect of the oxygen regulator hose that mates with the quick disconnect of the seat survival kit hose. Example serial number: S/N P9N-001. Initiate an Aircrew Systems Record OPNAV Form 4790/138 and record compliance and oxygen regulator hose assembly data on form.

b. Carefully etch a serial number using the squadron organization code and sequential number on the quick disconnect the of seat survival kit hose that mates with the quick disconnect of the lower oxygen regulator hose. Example serial number: S/N P9N-002. Initiate an Aircrew Systems Record OPNAV Form 4790/138 and record compliance and seat survival kit oxygen hose assembly data on form.

4-26. If discrepancies are found or suspected, Maintenance Control shall be notified.

4-27. Oxygen hose assemblies which do not pass inspection and cannot be repaired in the aircraft Aviator's Equipment Shop shall be removed in accordance with this chapter and applicable aircraft manual and replaced with a Ready For Issue (RFI) hose assembly. Non-RFI hose assemblies shall be discarded in accordance with local directives.

Section 4-5. Acceptance/Phased/SDLM Inspection

4-28. GENERAL.

4-29. An Acceptance Inspection shall be performed on Seat Survival Kit Hose assembly when it is placed into service or received already installed in an aircraft from another organization or SDLM. Phased/SDLM Inspection cycle of the Seat Survival Kit Hose Assembly will coincide with the seat survival kit in which the hose assembly is attached.

4-30. VISUAL INSPECTION. This inspection shall be performed prior to the functional check. Refer to table 4-2.

4-31. FUNCTIONAL CHECK. This check shall be performed on all hose assemblies at each Acceptance/Special/Phased/SDLM Inspection to determine condition of hose assembly and after any replacement procedures. Perform functional check using test kit TTU-489/E, in accordance with the 17-15BC-22 Technical Manual.

NOTE

If test kit TTU-489/E is not available refer to paragraph 4-32 for the electrical continuity portion of the functional test.

Materials Required

Quantity	Description	Reference Number
1	Aviator's Breathing Oxygen, Type I	MIL-O-27210

Support Equipment Required

Quantity	Description	Reference Number
1	Test Stand	TTU-489/E

NOTE

Performance of test stand is dependent upon skill of operator. It is imperative that operator be thoroughly familiar with instruments, controls, and connections that comprise systems incorporated in test stand.

When performing the electrical continuity test portion of the functional inspection refer to figures 4-4 through 4-9 for the appropriate oxygen hose assembly.

Table 4-2. Inspection

Component	Task
Oxygen Regulator and Seat Kit Hose Assemblies (Figures 4-13 thru 4-22)	
Oxygen Hose Assemblies	Check hose for obvious damage, wear, splits cuts, frayed fabric (Note 1). Check quick-disconnects for damage, corrosion, bent or missing pins, cleanliness and presence of foreign material. Check housing for damage, cuts, nicks, discoloration and wear. Check fittings for damaged threads, rounded hexagon flats and corrosion. For externally mounted communication cable assemblies, check for security of attachment and other obvious damage. Check electrical condition of hose assembly using test kit TTU-489/E (Note 2).

Notes: 1. Refer to Table 4-3, Troubleshooting for allowable limits.
2. Ensure visual inspection is performed prior to electrical check.

4-32. To perform insulation breakdown and electrical continuity check when Test Kit TTU-489/E is not available, see figures 4-4 through 4-9 and proceed as follows:

Support Equipment Required

Quantity	Description	Reference Number
1	500 VDC Megger	—
1	Ohmmeter or equivalent	—

NOTE

If oxygen hose assembly fails either step 1 or 2 and exhibits problems due to breakdown in integrated communications wiring, refer to paragraph 4-42 which will provide appropriate repair procedures.

1. Using a 500 VDC megger, perform insulation breakdown test. Insulation resistance shall be measured at test potential of 500 ±50 volts dc applied for not less than 0.1 second. Check resistance between any two conductors and hose. Indication shall be 100 megaohms or greater.

NOTE

Ensure Rx1 scale is used in performance of electrical continuity check.

2. Using an ohmmeter or its equivalent, perform electrical continuity test by checking continuity of each wire at its respective termination point according to the appropriate Seat Survival Kits figures 4-4 through 4-9.

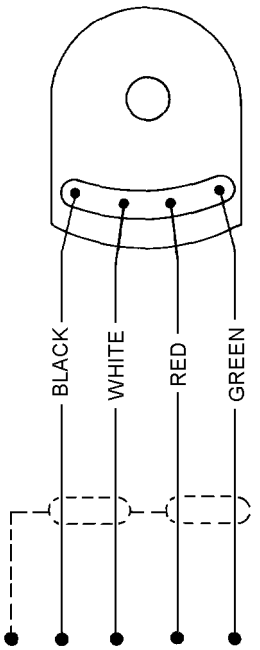


Figure 4-4. RSSK-3 Electrical Schematic

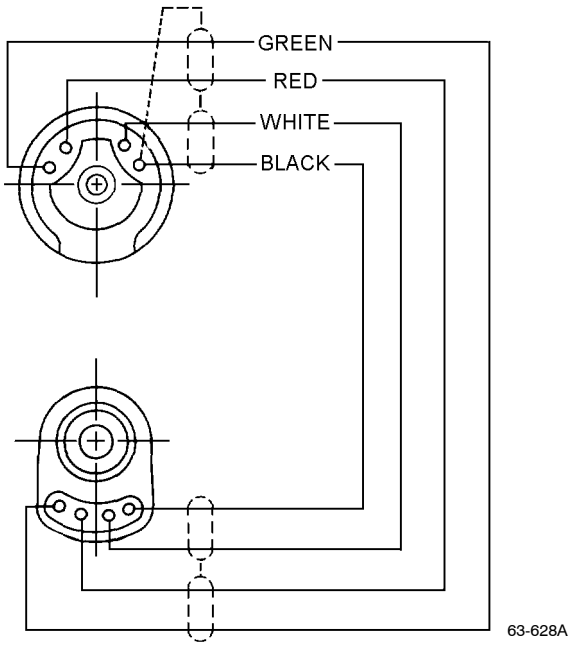


Figure 4-5. RSSK-8 Series, SKU-2/A and SKU-12/A Electrical Schematic

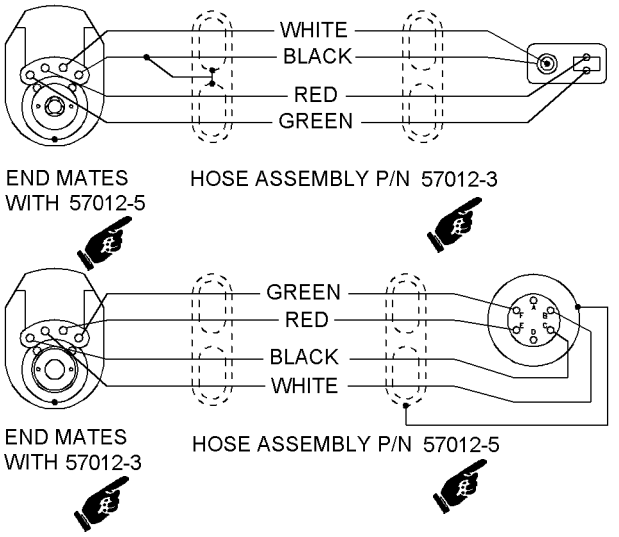


Figure 4-6. SKU-7/A, SKU-10/A and SKU-11/A Electrical Schematic

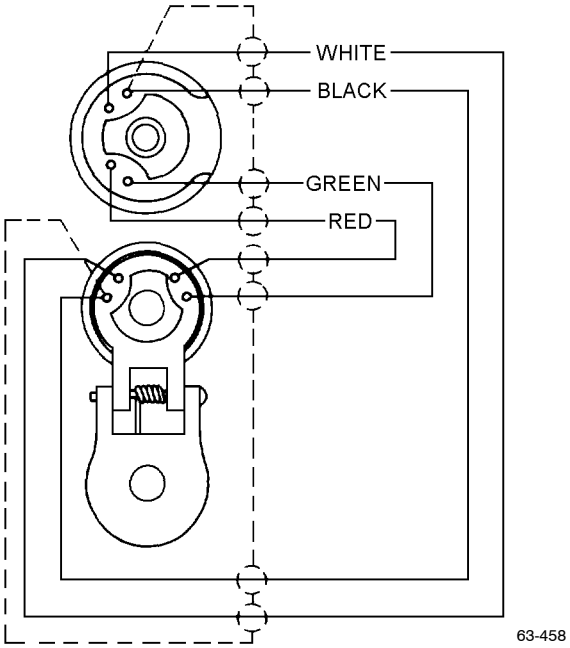


Figure 4-8. Douglas Seat Pan Electrical Schematic

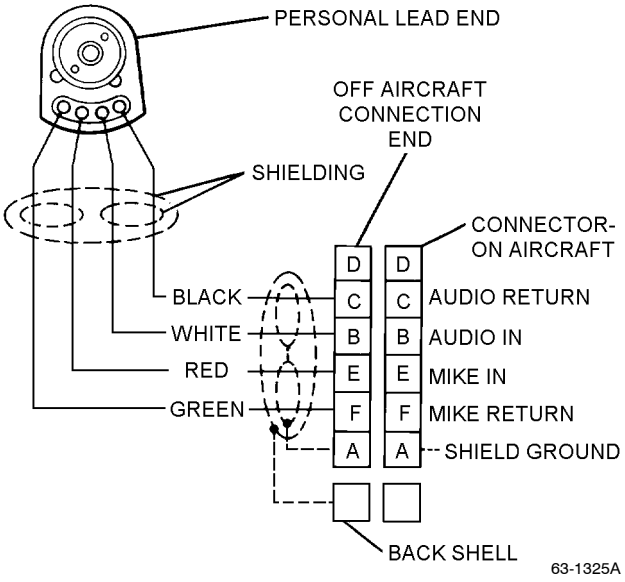


Figure 4-7. SKU-3/A and SKU-6/A Electrical Schematic

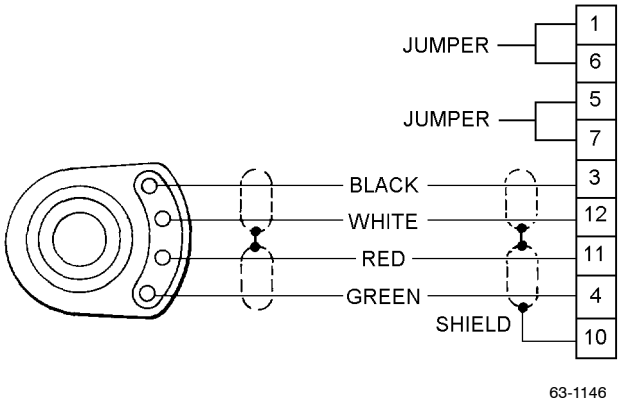


Figure 4-9. RSSK-1 and RSSK-1A Electrical Schematic

Section 4-6. Maintenance

4-33. GENERAL.

4-34. This section contains procedures for troubleshooting, disassembly, cleaning, inspection of disassembled parts, repair or replacement of parts, assembly, and adjustment. Disassemble only to extent required to perform task. Work shall be performed in a clean, dust and grease-free area.

4-35. TROUBLESHOOTING.

4-36. Where troubles or operating malfunctions are encountered, locate probable cause and remedy using table 4-3.

4-37. DISASSEMBLY.

4-38. Disassembly shall be only to extent necessary to perform required task and shall be inspected in accordance with paragraph 4-41. Disassembly of any oxygen hose assembly will be limited to removing and replacing from Seat Survival Kit, Oxygen Regulator and procedures set forth in paragraphs 4-43 through 4-47.

WARNING

Keep working area clean and free of oil, grease, dirt, and dust which may cause fire or explosion when in contact with oxygen.

Do not disassemble any part of emergency oxygen system while system is pressurized.

NOTE

Discard all Teflon sealing tape removed during disassembly of oxygen hose assemblies.

Table 4-3. Troubleshooting

Trouble	Probable Cause	Remedy
Loss or broken communications.	Broken or misaligned pins.	Replace communications cord according to applicable hose assembly or replace hose assembly (Note 1).
	Open short circuit in hose wiring.	Replace communications cord according to applicable hose assembly.
	Corrosion on pins.	Remove corrosion in accordance with NAVAIR 16-1-540.
Torn or split oxygen hose block.	Overstressing of hose.	Maximum allowable limits of cracks less than one inch in length. Cracks should not compromise the reliability of hose.
Torn or split rubberized or material hose.	Overstressing of hose assembly.	Replace hose assembly.

Notes: 1. Depending on type hose assembly if replacement of communication cord is allowed. Refer to paragraph 4-42.

4-39. CLEANING.

4-40. To clean exterior covering of the oxygen hose assembly, proceed as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Cleaning Compound	MIL-C-25769
As Required	Detergent, General Purpose	MIL-D-16791
As Required	Lint-free Cloth	MIL-C-85043 NIIN 00-044-9281

CAUTION

Ensure hose ends are capped. Do not submerge hose assembly in any type of fluids. Submerging hose ends could cause contamination and promote corrosion in the electronic components.

NOTE

When using cleaning compound (MIL-C-25769) combine one part compound to three parts water. If using general purpose detergent, follow directions on container.

1. Prepare detergent or cleaning compound (MIL-C-25769) solution.

2. Using a lint-free cloth, dampen with prepared detergent or cleaning solution and apply to soiled area.

3. Allow solution to remain on surface for few a minutes, then scrub with soft brush or damp lint-free cloth.

4. Using a fresh, clean lint-free cloth, dampen cloth with fresh clean water and wipe surface thoroughly.

NOTE

Repeat steps 1 and 4 until material is clean.

5. Repeat step 4 until materials are free from all solution.

6. Allow materials to dry thoroughly.

7. If metallic hose ends are in need of cleaning, uncap hose ends.

8. Using a lint-free cloth, dampen with prepared detergent or cleaning solution and wipe clean the metallic hose ends.

9. Allow to dry thoroughly prior to recapping.

4-41. INSPECTION OF DISASSEMBLED PARTS.

4-42. Inspect disassembled hose assemblies for distortion, corrosion, or other damage in accordance with table 4-2.

4-43. REPAIR AND REPLACEMENT.

4-44. REPAIR. Repair of individual components within any assembly is authorized only in accordance with procedures outlined in this manual. For all repairs, make necessary entries on appropriate form in accordance with OPNAVINST 4790.2 Series.

WARNING

Keep working area clean and free of oil, grease, dirt, and dust which may cause fire or explosion when in contact with oxygen.

Do not disassemble any part of emergency oxygen system while system is pressurized.

NOTE

Discard all Teflon sealing tape removed during disassembly of oxygen hose assemblies.

Disassembly shall be only to extent necessary to perform required task.

4-45. Repair of Seat Survival Kit Oxygen Hose Assembly for RSSK-3. To repair the oxygen hose assembly, proceed as follows:

Materials Required

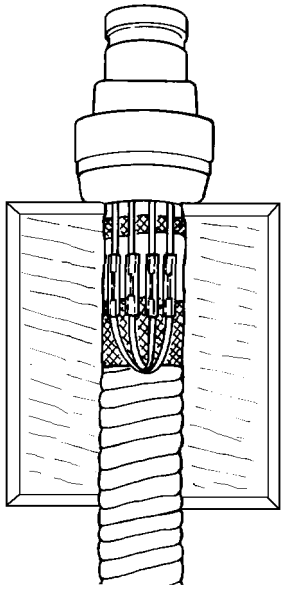
Quantity	Description	Reference Number
As Required	Terminal, Lug, Crimp Style, Type II, Class II	MS25036-144/145
As Required	Insulated Wire #22, Two-conductor, Twisted and Shielded	NIIN 00-184-4325
As Required	Insulated #22 Single Conductor	NIIN 00-635-3566
As Required	Strap, Tie-down	—
As Required	Electrical Tape, Vinyl Plastic	—
As Required	Electrical Insulating Sleeving	—

NOTE

Normal operating materials used in support of avionics are acceptable.

It is recommended that avionics personnel assist in the following repair actions.

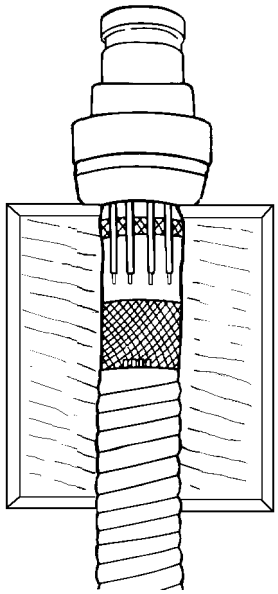
1. Expose internal communication leads located at personal lead end fitting by making single longitudinal slice in molded rubber directly below communication pins. Carefully peel back molded rubber to gain access to leads.



63-926

Step 1 - Para 4-45

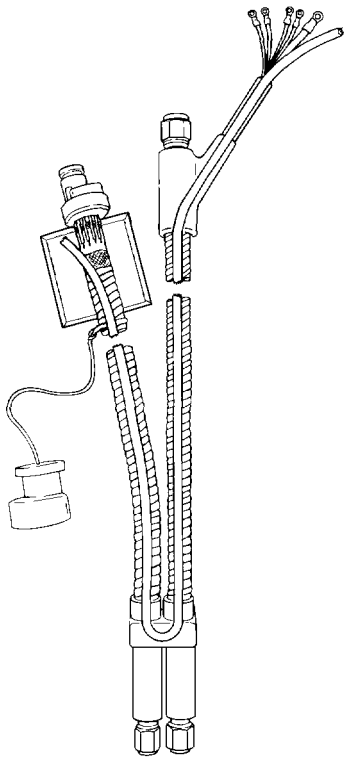
2. Clip the exposed leads at the points where they enter the hose body and at the existing splice.



63-927

Step 2 - Para 4-45

3. Cut two lengths of No. 22 two-conductor shielded wire or its electrical equivalent long enough so that it can be routed from one end of the oxygen hose assembly along the hose to the opposite end. Ensure a minimum of slack exists.



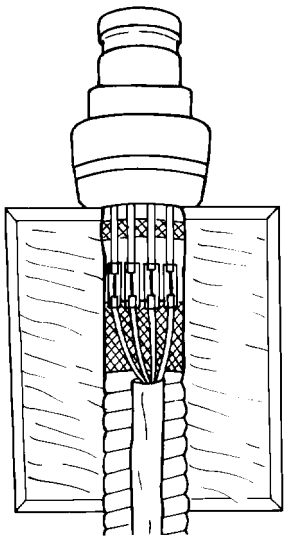
63-928

Step 3 - Para 4-45

NOTE

The wire pairs should be red and green for microphone, white for audio and black for ground. See figure 4-4 to maintain electrical continuity for soldering.

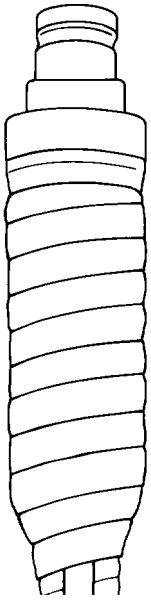
4. Solder the replacement leads at the old splice locations and slide the insulation sleeving over the splice.



63-929

Step 4 - Para 4-45

5. Fold molded rubber end back in place and secure with electrical tape.

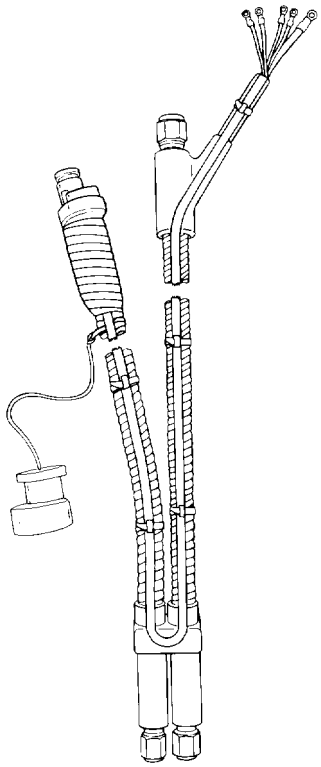


63-930

Step 5 - Para 4-45

6. Clip exposed leads at aircraft connection end where they enter hose body. Strip wire and crimp terminals on new leads.

7. Using electrical tape or wire ties, secure newly installed communication leads in place along hose body. Ensure leads are free of loops.



Step 7 - Para 4-45

8. Perform electrical continuity test in accordance with paragraph 4-31.

4-46. Repair of Seat Survival Kit Oxygen Hose Assembly for Soft Pack/Seat Pans, RSSK-8, SKU-2/A, and SKU-12/A. To repair the oxygen hose assembly, proceed as follows:

Materials Required

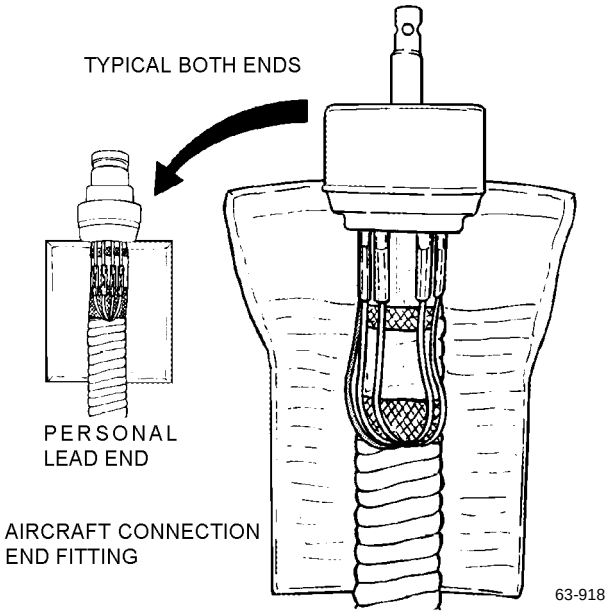
Quantity	Description	Reference Number
As Required	Insulated Wire #22 Two-conductor Twisted and Shielded	NIIN 00-184-4325
As Required	Insulated Wire #22 Single Conductor	NIIN 00-635-3566
4	Strap, Tie-down	—
As Required	Electrical Tape, Vinyl Plastic	—
As Required	Electrical Insulating Sleeving	—

NOTE

Normal operating material used in support of avionics is acceptable.

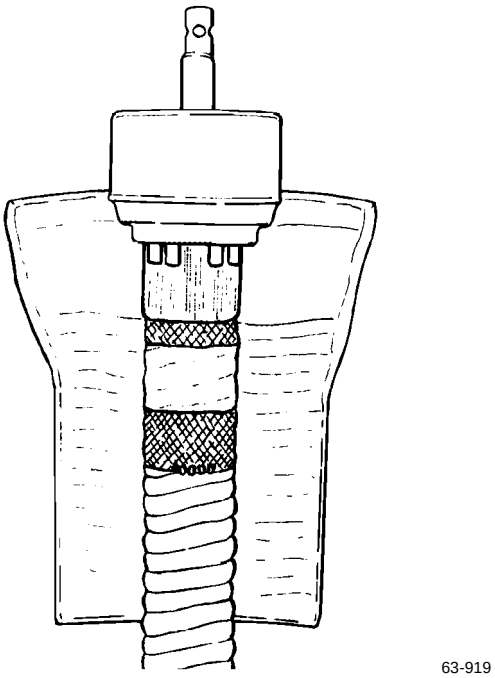
It is recommended avionics personnel assist in the following repair actions.

1. Expose internal communication leads located at the aircraft connection end fitting by making a single longitudinal slice in the molded rubber directly below the communication pins. Carefully peel back the molded rubber to gain access to the leads.



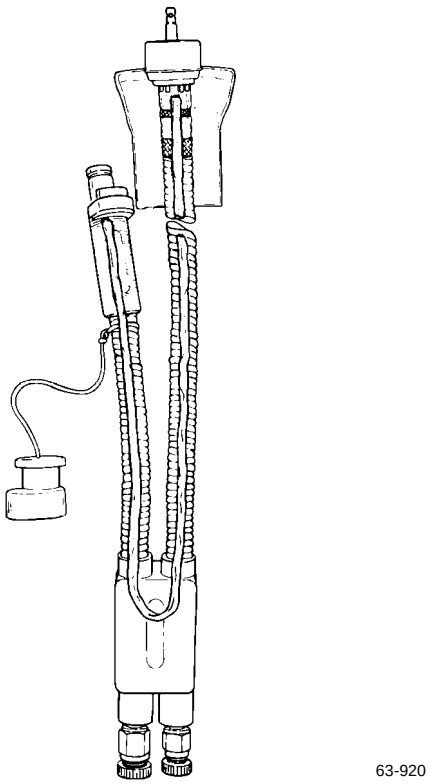
Step 1 - Para 4-46

2. Clip the exposed leads at the points where they enter the hose body and at the existing splice.



Step 2 - Para 4-46

3. Cut two lengths of No. 22 two-conductor shielded wire or its electrical equivalent long enough so that it can be routed from one end of the oxygen hose assembly along the hose to the opposite end. Ensure a minimum of slack exists.

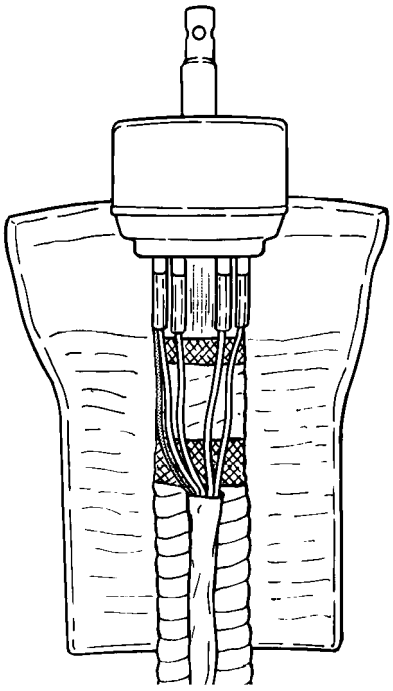


Step 3 - Para 4-46

NOTE

The wire pairs should be red and green for microphone, white for audio and black for ground. See figure 4-5 to maintain electrical continuity for soldering.

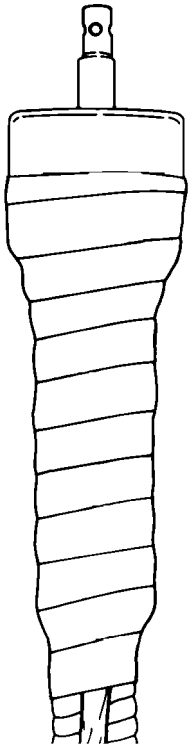
4. Solder the replacement leads at the old splice locations and slide the insulation sleeving over the splice.



63-921

Step 4 - Para 4-46

5. Fold the molded rubber end back in place and secure with electrical tape.

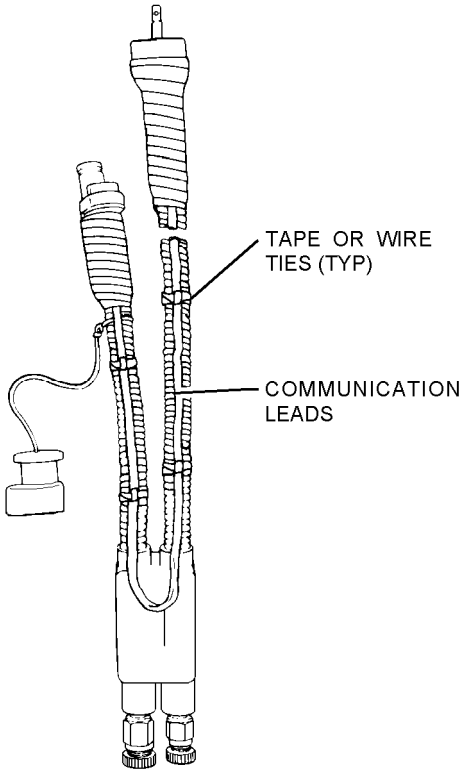


63-922

Step 5 - Para 4-46

6. Perform the above procedure for the personal lead end of the oxygen hose assembly.

7. Using electrical tape or wire ties, secure the newly installed communication leads in place along the hose body. Ensure leads are free of loops.



63-923

Step 7 - Para 4-46

8. Perform electrical continuity test in accordance with paragraph 4-31.

4-47. Repair Seat Survival Oxygen Hose Assembly for SKU-3/A and SKU-6/A. To repair the oxygen hose assembly, proceed as follows:

Materials Required

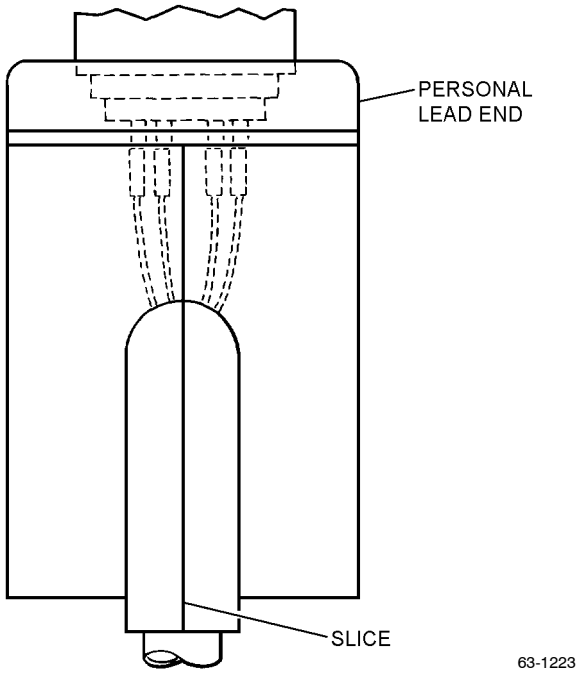
Quantity	Description	Reference Number
As Required	Insulated Wire #22, Two-conductor, Twisted and Shielded	NIIN 00-907-1128
As Required	Insulated Wire #22, Single Conductor	NIIN 00-635-3566
8	Strap, Tie-down	NIIN 00-027-4595
As Required	Electrical Tape, Vinyl	MIL-T-7798
As Required	Electrical Insulating Sleeving, Type B, Class 5 Plastic	MIL-I-23053 NIIN 00-284-8859 NIIN 00-567-2726

NOTE

Normal operating material used in support of avionics is acceptable.

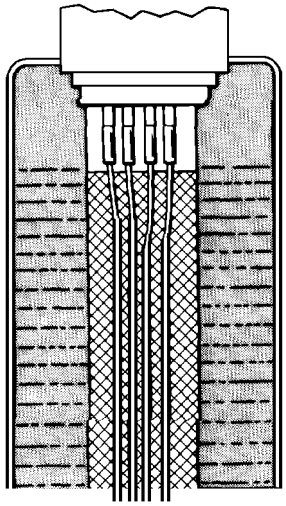
It is recommended avionics personnel assist in the following repair actions.

1. Expose internal communication leads located at personal lead end connection fitting by making a single longitudinal slice in molded rubber directly below communication pins.



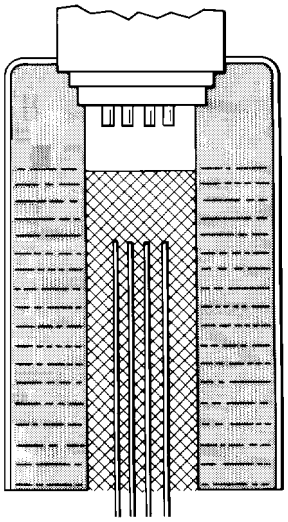
Step 1 - Para 4-47

2. Carefully peel back molded rubber to gain access to leads.



Step 2 - Para 4-47

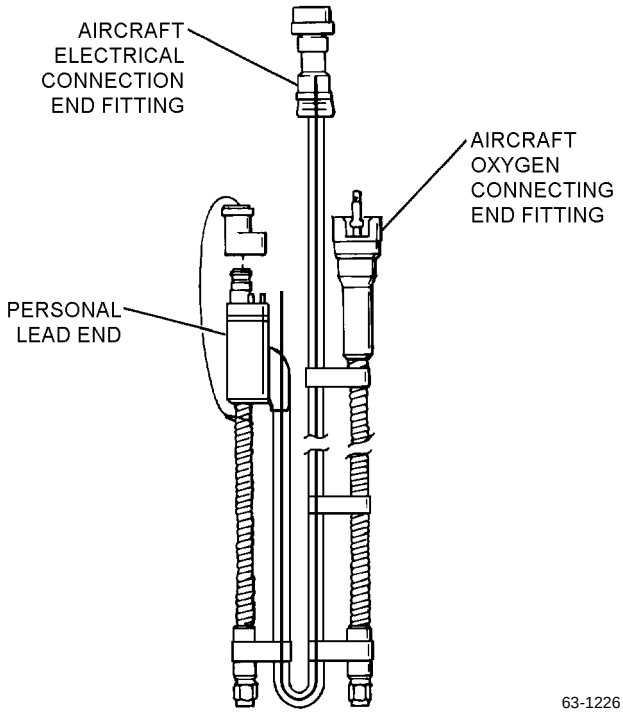
3. Clip exposed leads at points where they enter hose body and at existing splice.



63-1225

Step 3 - Para 4-47

4. Cut two lengths of No. 22 two-conductor shielded wire or its electrical equivalent long enough so that it can be routed from one end of air breathing hose assembly along hose to opposite end. Be sure a minimum of slack exists in wire.



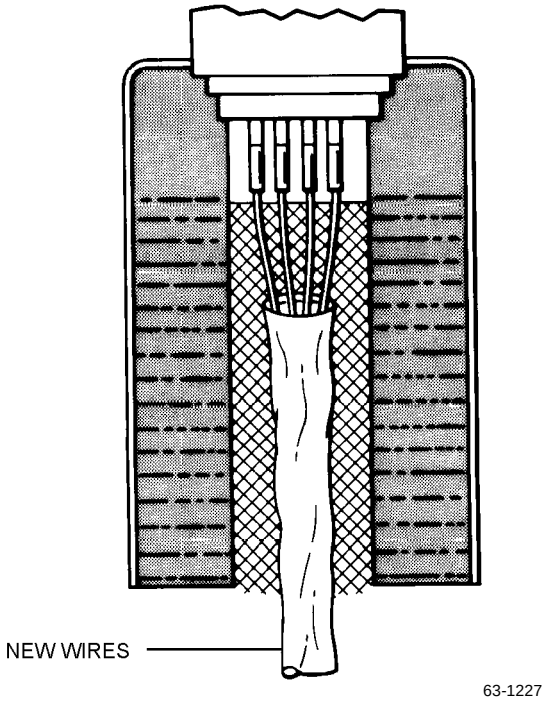
63-1226

Step 4 - Para 4-47

NOTE

The wire pairs shall be red and green for microphone, white for audio, and black for ground. Refer to figure 4-7 for electrical check and NAVAIR 01-1A-23 for soldering.

5. Add insulation sleeving, solder replacement leads at old splice locations and slide insulation sleeving over splice.



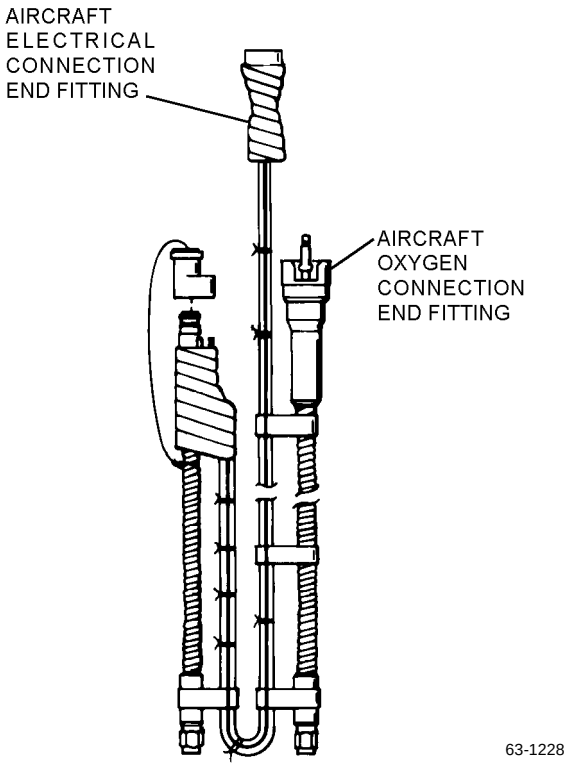
63-1227

Step 5 - Para 4-47

6. Fold molded rubber end back in place and secure with electrical tape.

7. Perform a splice procedure for aircraft electrical connection end fitting.

8. Using electrical tape or tie-down straps, secure newly installed communication leads in place along hose body. Be sure leads are free of loops.



Step 8 - Para 4-47

9. Perform electrical continuity test in accordance with paragraph 4-31.

4-48. Repair (Reinforcement) of Oxygen/Communication Hose Assembly. To reinforce the oxygen hose assembly proceed as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Sleeving, Insulation	NT-778BLK (CAGE 06090) NIIN 00-917-9823
1	Strap, Tie-down	MS3367-1-9 (CAGE 96906) NIIN 00-074-2072

Support Equipment Required

Quantity	Description	Reference Number
1	Heat Gun, Size 1	MIL-H-45193 (CAGE 81349) NIIN 00-357-1369

1. Remove lower molded rubber communication wire keeper from personal lead side of oxygen hose assembly.

2. Install approximately seven-inch length of insulation sleeving over personal lead side of oxygen hose assembly by slipping sleeving over the flare nut end and up over hose to butt against molded rubber communication lead section at top of hose (figure 4-10). Trim lower end of insulation sleeve to butt against upper edge of flare nut.

3. Shrink insulation sleeving over hose assembly using heat gun.

4. Install a second layer of sleeve insulation over the first layer by repeating steps 2 and 3.

5. Install tie-down strap to replace molded rubber wire keeper removed in step 1.

6. Reinstall oxygen/communication hose assembly in survival kit.

7. Document completion and date by making necessary entries on appropriate form in accordance with OPNAVINST 4790.2 Series.

4-49. REPLACEMENT. All individual parts that fail to pass inspection shall be replaced except where repair procedure is indicated. Refer to source code listing (SM&R Code) in Numerical Index of the Illustrated Parts Breakdown to aid in determining replaceable components. All adjustable components or assemblies that failed to pass respective tests shall be adjusted to meet required specifications.

4-50. Replacement of Regulator Hose Cable/Keeper Assembly (SKU-7/A, SKU-10/A and SKU-11/A). To replace the regulator hose cable/keeper assembly, proceed as follows:

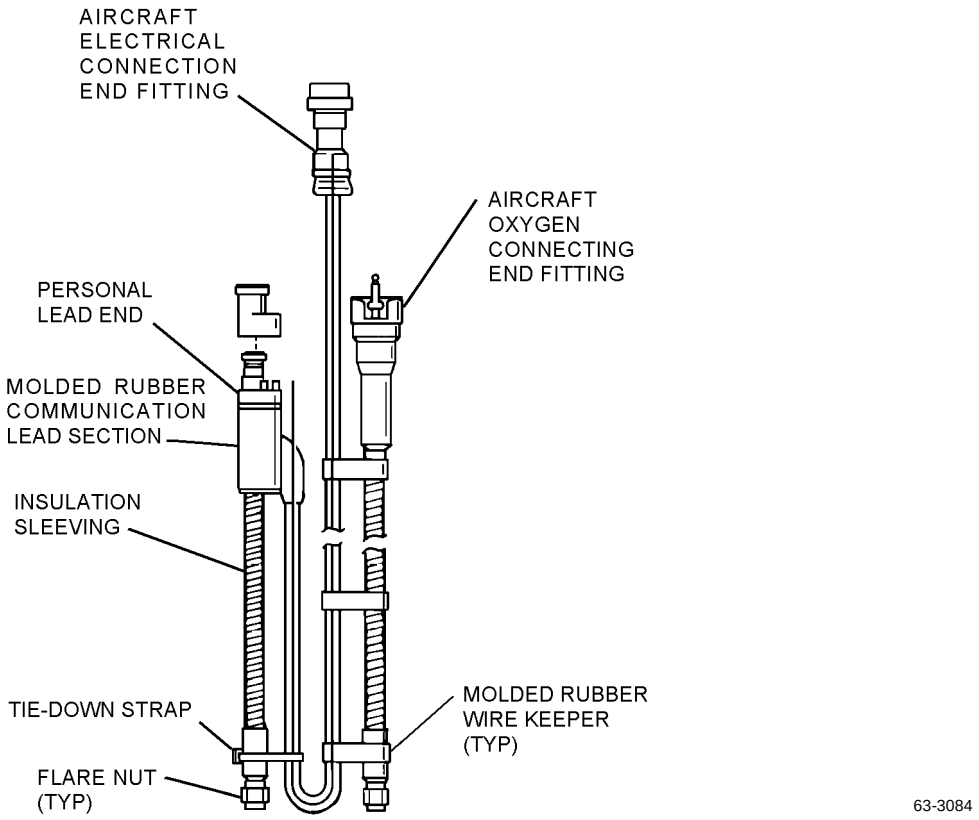


Figure 4-10. Oxygen Hose Assembly Insulation Sleeving Installation

Materials Required

Quantity	Description	Reference Number
1	Cable/Keeper Assembly	MBEU148019 57012-3-1
As Required	Adhesive, Epoxy	EA 907 NIIN 00-144-9729
As Required	Sealing, Locking, and Retaining Compound, Grade A	MIL-S-22473 NIIN 00-953-2205

Support Equipment Required

Quantity	Description	Reference Number
1	Heat Gun or Soldering Iron	—
1	Scribe	—
1	5/64-inch Allen Wrench	—

1. Remove the regulator hose cable/keeper assembly as follows:

NOTE

The cable/keeper assembly screw heads may be filled with hardened sealant. If necessary, use a heat gun and/or soldering iron and scribe to loosen the sealant enough to access the screw heads.

Retain all disconnected items and hardware unless otherwise instructed to discard.

a. If necessary, remove any hardened sealant covering screw heads.

b. At one end of the oxygen hose assembly, remove the three screws and washers that secure the cable/keeper assembly to the hose assembly.

c. At the opposite end of the hose assembly, remove the two screws from the cover.

d. Using a 5/64-inch allen wrench, remove the screws from the cable keepers. Remove cable keepers from communication cable.

e. Remove and discard old communication cable.

2. Install the regulator hose cable/keeper assembly as follows:

NOTE

Sealing compound shall be added to the threads of all screws before reinstallation.

a. Install new communication cable.

b. Install cable keepers on cable. Using a 5/64-inch allen wrench, secure cable keepers with screws.

c. Secure hose assembly to cover using two screws.

d. At the opposite end of the oxygen hose assembly, secure the cable/keeper assembly to the hose assembly using three screws and washers.

WARNING

Uncured adhesive contains epoxy resins which can cause eye and skin irritations. Use adequate ventilation and avoid contact with eyes or skin. Wash hands thoroughly with soap and water after handling.

e. Excluding the cable/keeper screws, apply epoxy adhesive on the heads of all screws being installed as follows:

(1) Using isopropyl alcohol, clean the area where the epoxy adhesive is to be applied and allow to dry for 2 - 5 minutes.

(2) On a clean and dry mixing surface, squeeze a length of Part A resin using uniform pressure to form an even bead.

(3) Squeeze an equal length and size bead of Part B hardener parallel to the bead of Part A resin.

WARNING

Heat buildup during or after mixing is normal. Do not mix quantities greater than 250 grams as dangerous heat buildup can occur resulting in toxic fumes.

(4) Thoroughly mix Part A resin and Part B hardener until a uniform color is obtained.

(5) Using a spatula or the wooden end of a cotton swab, apply epoxy adhesive to the head of the screws making sure to fill in to the rim of the fastener inset and that no air bubbles are present under the adhesive.

(6) Allow epoxy adhesive to cure for 6 - 8 hours at room temperature.

4-51. Replacement of the Seat Kit Hose Cable/Keeper Assembly (SKU-7/A, SKU-10/A and SKU-11/A). To replace the seat kit hose cable/keeper assembly, proceed as follows:

Materials Required

Quantity	Description	Reference Number
1	Cable/Keeper Assembly, SKU-7/A	MBEU148024 57013-5-1
1	Cable/Keeper Assembly, SKU-10/A and SKU-11/A	MBEU148021 57012-5-1
As Required	Adhesive, Epoxy	EA 907 NIIN 00-144-9729
As Required	Sealing, Locking, and Retaining Compound, Grade A	MIL-S-22473 NIIN 00-953-2205

Support Equipment Required

Quantity	Description	Reference Number
1	Heat Gun or Soldering Iron	—
1	Scribe	—
1	5/64-inch Allen Wrench	—

WARNING

Uncured adhesive contains epoxy resins which can cause eye and skin irritations. Use adequate ventilation and avoid contact with eyes or skin. Wash hands thoroughly with soap and water after handling.

1. Remove the seat kit hose cable/keeper assembly as follows:

NOTE

The cable/keeper assembly screw heads may be filled with hardened sealant. If necessary, use a heat gun and/or soldering iron and scribe loosen the sealant enough to access the screw heads.

Retain all disconnected items and hardware unless otherwise instructed to discard.

a. If necessary, remove any hardened sealant covering screw heads.

b. At the top of the seat kit hose assembly, remove the two screws from the cover.

c. Using a 5/64-inch allen wrench, remove the screws from the cable keepers. Remove cable keepers from communication cable.

d. Remove and discard old communication cable.

2. Install the regulator hose cable/keeper assembly as follows:

NOTE

Sealing compound shall be added to the threads of all screws before reinstallation.

a. Install new communication cable.

b. Install cable keepers on cable. Using a 5/64-inch allen wrench, secure cable keepers with screws.

c. Secure the top of the seat kit hose assembly to the cover with two screws.

d. Excluding the cable/keeper screws, apply epoxy adhesive on the heads of all screws being installed as follows:

1. Using isopropyl alcohol, clean the area where the epoxy adhesive is to be applied and allow to dry for 2 - 5 minutes.

2. On a clean and dry mixing surface, squeeze a length of Part A resin using uniform pressure to form an even bead.

3. Squeeze an equal length and size bead of Part B hardener parallel to the bead of Part A resin.

WARNING

Heat buildup during or after mixing is normal. Do not mix quantities greater than 250 grams as dangerous heat buildup can occur resulting in toxic fumes.

4. Thoroughly mix Part A resin and Part B hardener until a uniform color is obtained.

5. Using a spatula or the wooden end of a cotton swab, apply epoxy adhesive to the head of the screws making sure to fill in to the rim of the fastener inset and that no air bubbles are present under the adhesive.

6. Allow epoxy adhesive to cure for 6 - 8 hours at room temperature.

4-52. ASSEMBLY.

4-53. Assemble Seat Survival Kit Oxygen Hose Assemblies using index numbers of figures 4-13 through 4-22 as a reference.

WARNING

Do not use oil or any material containing oil in conjunction with oxygen equipment. Oil, even in a minute quantity, coming in contact with oxygen can cause explosion or fire. Dust, lint, and fine metal particles are also dangerous.

NOTE

The tamper dot on the Oxygen Hose Assembly shall be applied to the fitting in a manner which provides easy identification for inspection purposes when the seat kit is installed in the seat.

Maintenance personnel are advised to read and thoroughly familiarized themselves with each step prior to the accomplishment of the operations set forth in this procedure.

All complete assemblies not immediately being returned to service shall be sealed in plastic bags with all external fittings properly capped.

4-54. ASSEMBLY OF THE SEAT SURVIVAL KIT OXYGEN HOSE ASSEMBLIES TO SEAT SURVIVAL KITS. To assemble the seat survival kit hose assembly to seat survival kit, see figure 4-11 and proceed as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Sealing, Locking, and Retaining Compound, Grade B, Type B	MIL-S-22473 NIIN 01-163-3483
As Required	Lint-free Cloth	MIL-C-85043 NIIN 00-044-8291

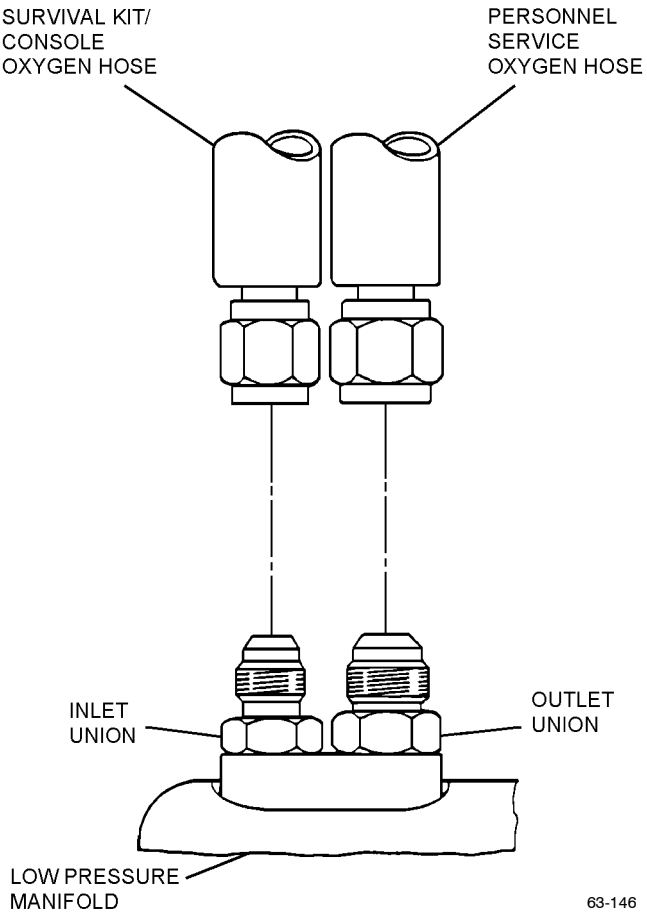


Figure 4-11. Oxygen Hose Assembly/Low Pressure Manifold Connection

1. Torque inlet tubing connector on oxygen hose assembly to 80-100 inch-pounds.

2. Rotate inboard personnel-service hose so that the communications connection is aligned at the 10 o'clock position and torque outlet tubing connector on oxygen hose assembly to 100-125 inch-pounds.

3. Apply tamper dot using sealant, MIL-S-22473 Grade B, Type B. Use any contrasting color when applying tamper dots to oxygen fittings. Ensure tamper dots are visible for inspection.

4-55. (S-3A A/C ONLY) INSTALLATION OF THE 32-INCH ELECTRICAL CABLE ASSEMBLY CX-13017/AR.

4-56. To install the 32-inch cable assembly, see figure 4-12 and proceed as follows:

Materials Required

Quantity	Description	Reference Number
1	Cable Assembly CX-13017/AR 32-inch	MIL-C-81866 P/N 1099AS101 (CAGE 30003)
6	Strap, Tiedown, Electrical	MS3367-1-9
1	Strap, Tiedown, Electrical	MS3367-6-9

1. Position the 32-inch electrical cable assembly on the RSSK-8 oxygen hose assembly P/N 33D1341-2 so that the female communication jack of the electrical cable assembly is flush with the quick disconnect fitting of the pilot's supply hose.

2. The male communication jack of the 32-inch electrical cable assembly should terminate 3 inches beyond the quick disconnect fitting of the aircraft's supply hose.

3. Secure the 32-inch electrical cable assembly to the RSSK-8 oxygen hose assembly with seven tiedown straps. Ensure straps are tight.

4. Cut off excess length of the tiedown straps.

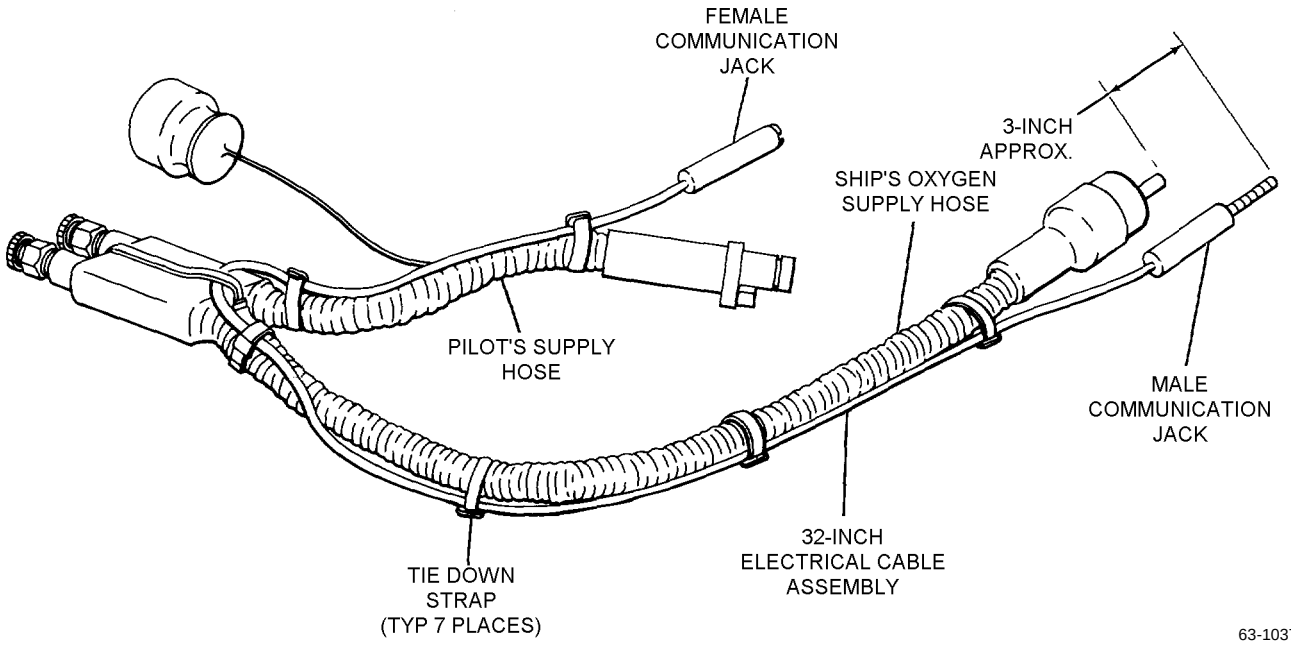


Figure 4-12. Installation of 32-inch Electrical Cable Assembly (for S-3A Aircraft Application)

Section 4-7. Fabrication

4-57. GENERAL.

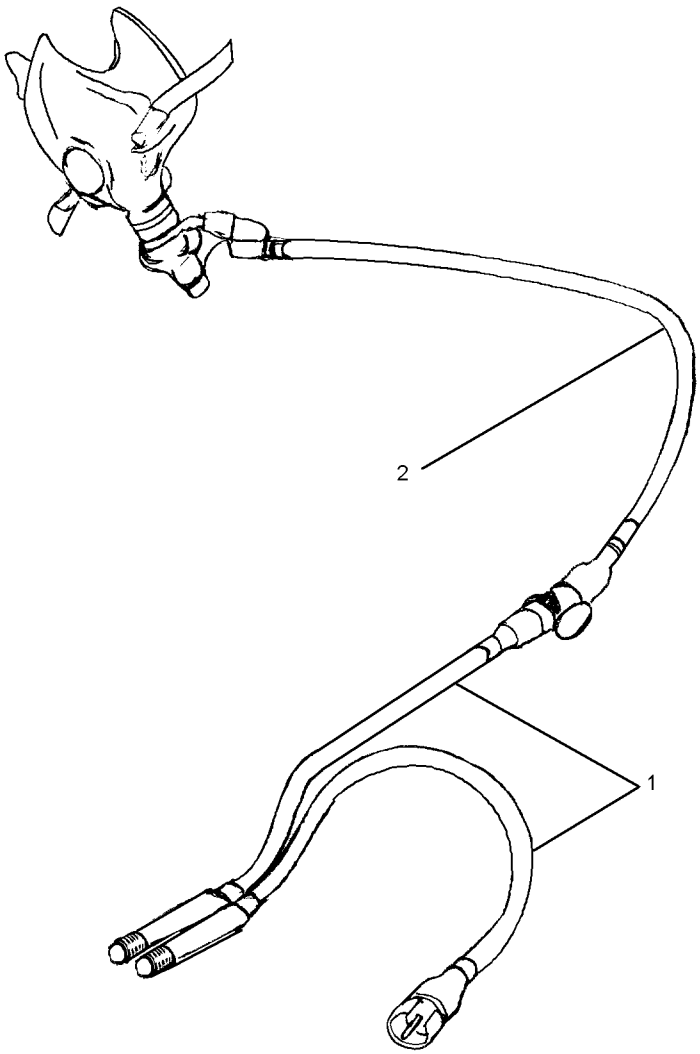
4-58. This section contains instruction for fabrication of tools and components that can be manufactured by local maintenance activities. There are no fabrications required or authorized at this time.

Section 4-8. Illustrated Parts Breakdown

4-59. GENERAL.

4-60. This section lists and illustrates the assemblies and details of all regulator hose and seat survival kit hose assemblies.

4-61. The Illustrated Parts Breakdown should be used during maintenance when requisitioning and identifying parts.



63-185

Figure 4-13. Douglas Seat Pan Oxygen Hose Assembly

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
4-13-1	12081-2	. HOSE ASSEMBLY, Emergency oxygen . . . . . supply (01547) (Alternate REDAR-A10566-1 (28445)) (Note 1)	1	
	REDAR-A10566-1	. HOSE ASSEMBLY, Emergency oxygen . . . . . supply (28445)	1	
-2	REDAR-A10067-2	. HOSE ASSEMBLY, Pilot oxygen supply . . . . . (Per Douglas spec cont dwg 7445438-503) (28445)	1	
	Notes: 1. Aircraft incorporating ACC 82.			

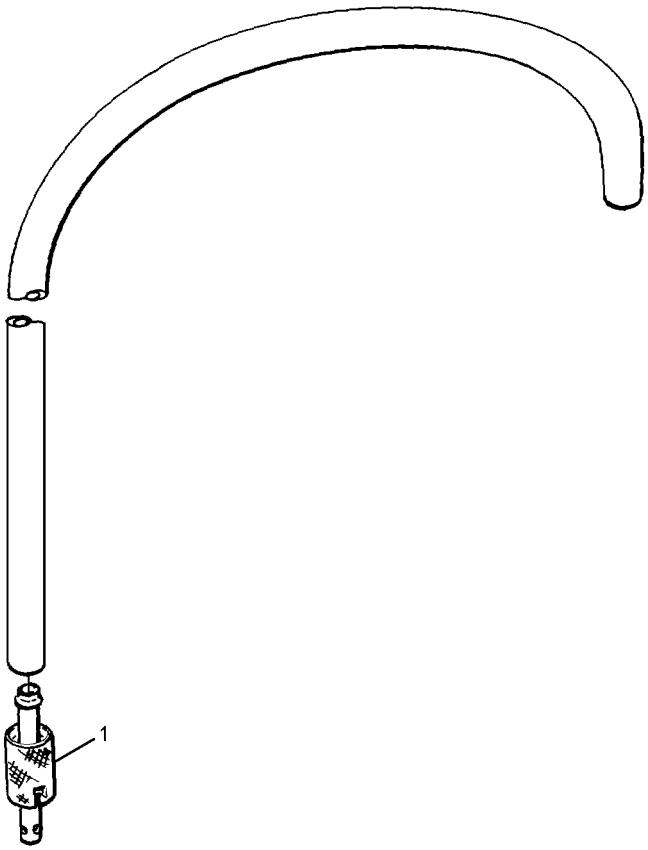


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Figure 4-14. SP-1A Oxygen Hose Assembly

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
4-14	MS21964-18	HOSE AND FITTING ASSEMBLY, 28-inch	1	
-1	MS21964-20	. FITTING ASSEMBLY	1	

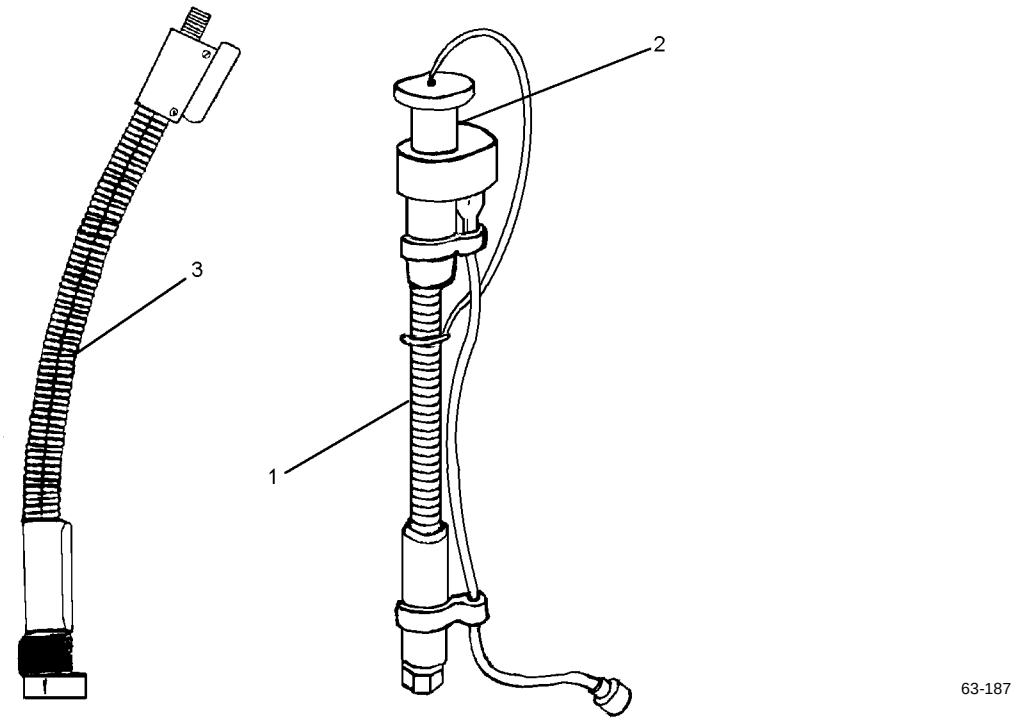


Figure 4-15. RSSK-1 and RSSK-1A Oxygen Hose Assemblies

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
4-15-1	33D1349-1	. HOSE ASSEMBLY (80206)	1	
-2	12031	. CAP AND LANYARD (31441)	1	
	REDAR-C10830	. CAP AND LANYARD (28445)	1	
-3	REDAR-A10116-2	. HOSE ASSEMBLY, Air Breathing (28445)	1	

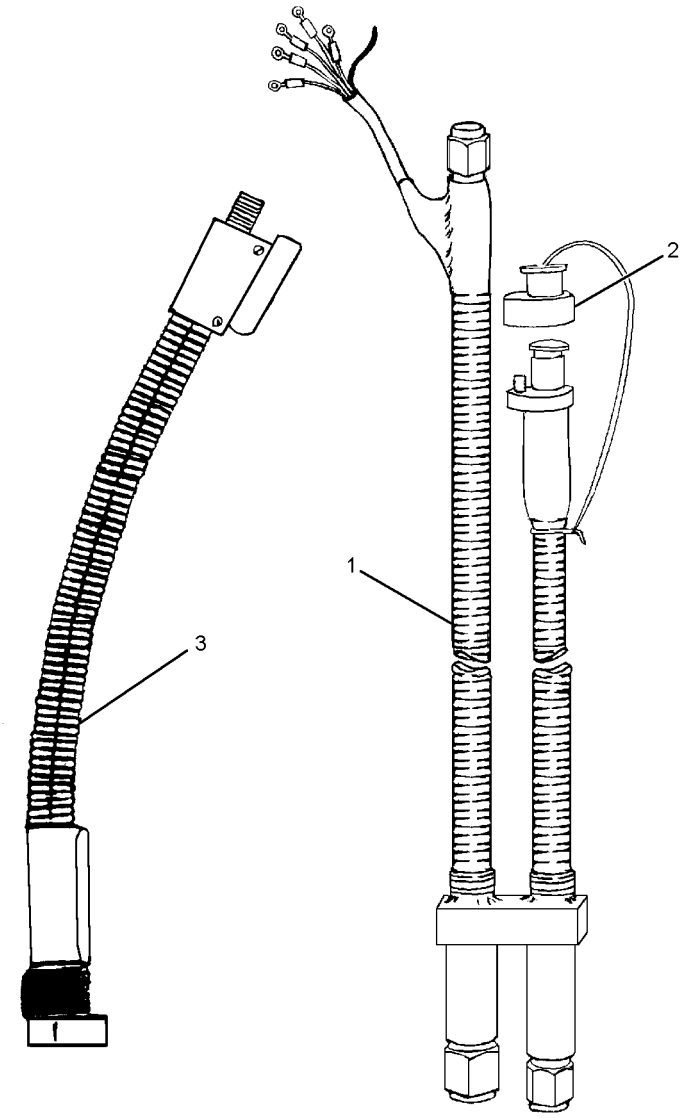


Figure 4-16. RSSK-3 Oxygen Hose Assembly

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
4-16-1	REDAR-A10577-1	. HOSE ASSEMBLY (28445)	1	
	33D1350-1	. HOSE ASSEMBLY (80206)	1	
-2	12031	. CAP AND LANYARD (31441)	1	
	REDAR-C10830	. CAP AND LANYARD (28445)	1	
-3	REDAR-A10116-2	. HOSE ASSEMBLY, Air Breathing (28445)	1	

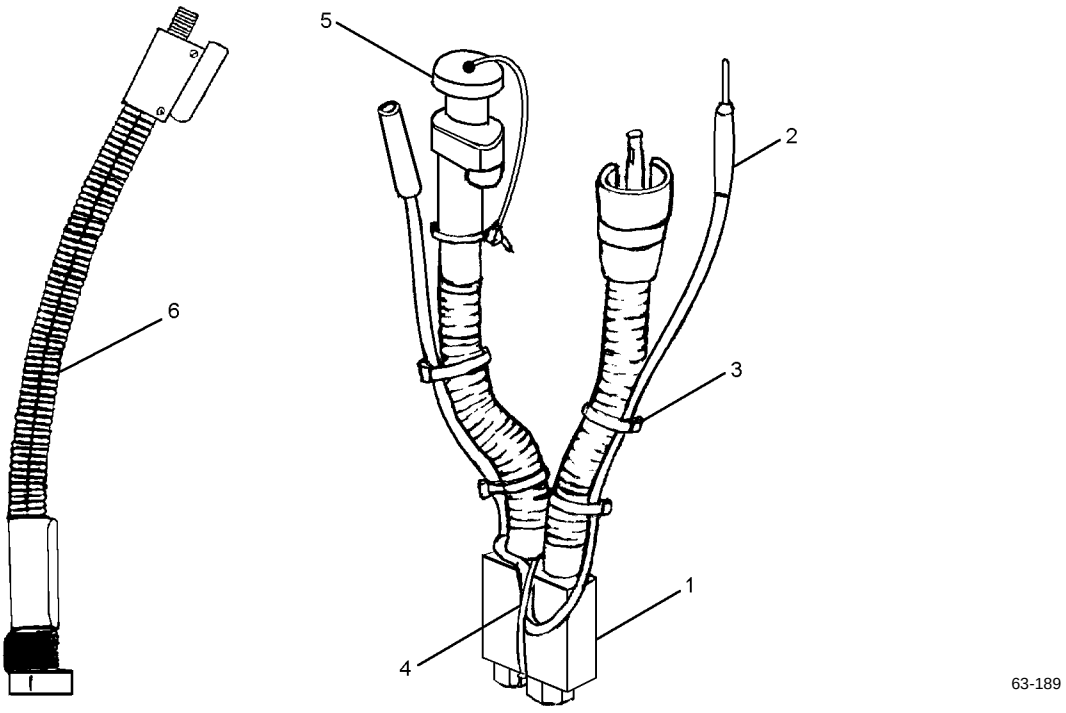
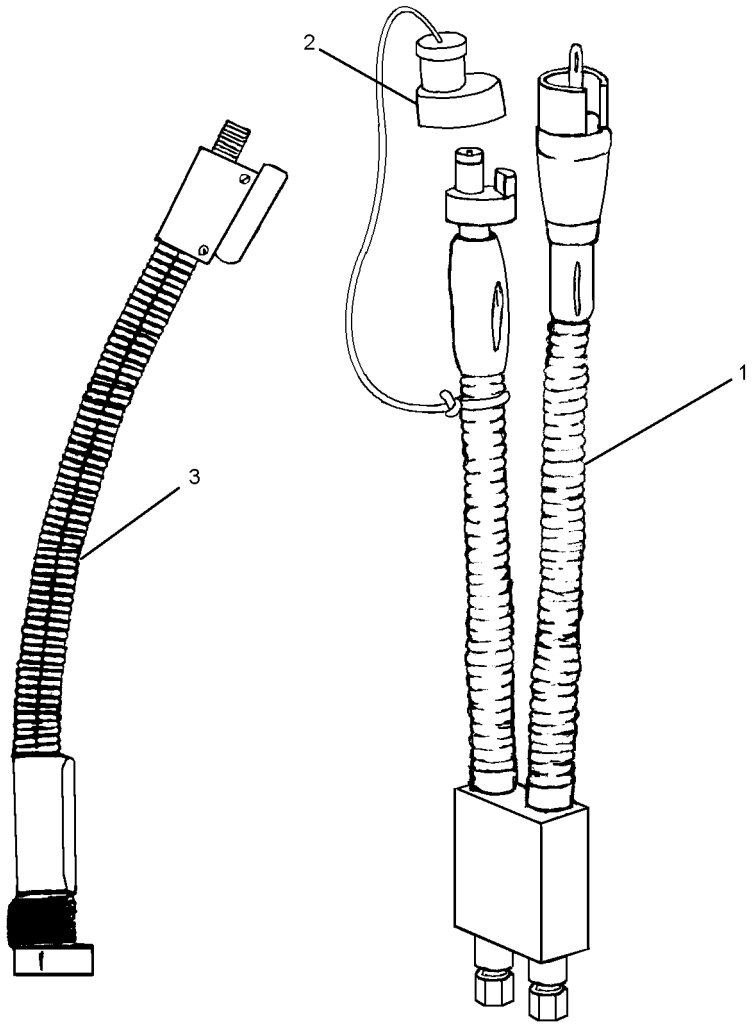


Figure 4-17. RSSK-8 Series Oxygen Hose Assembly

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
4-17-1	33D1341-2	. HOSE ASSEMBLY, Oxygen (80206)	1	
	58520-00	. HOSE ASSEMBLY, Oxygen (53655)	1	
-2	1099AS101	. CABLE ASSEMBLY, 32-inch (30003) . . . . . (Note 1)	1	
-3	MS3367-1-9	. STRAP, Tiedown, electrical (Note 1)	6	
-4	MS3367-6-9	. STRAP, Tiedown, electrical (Note 1)	1	
-5	12031	. CAP AND LANYARD (31441)	1	
	REDAR-C10830	. CAP AND LANYARD (28445)	1	
-6	REDAR-A10116-2	. HOSE ASSEMBLY, Air Breathing (28445)	1	
	Notes: 1. For S-3A A/C only.			



63-190

Figure 4-18. SKU-2/A and SKU-12/A Oxygen Hose Assemblies

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
4-18-1	33D1341-5	. HOSE ASSEMBLY, Oxygen	1	
-2	12031	. CAP AND LANYARD (31441)	1	
	REDAR-C10830	. CAP AND LANYARD (28445)	1	
-3	REDAR-A10116-2	. HOSE ASSEMBLY, Air Breathing (28445)	1	

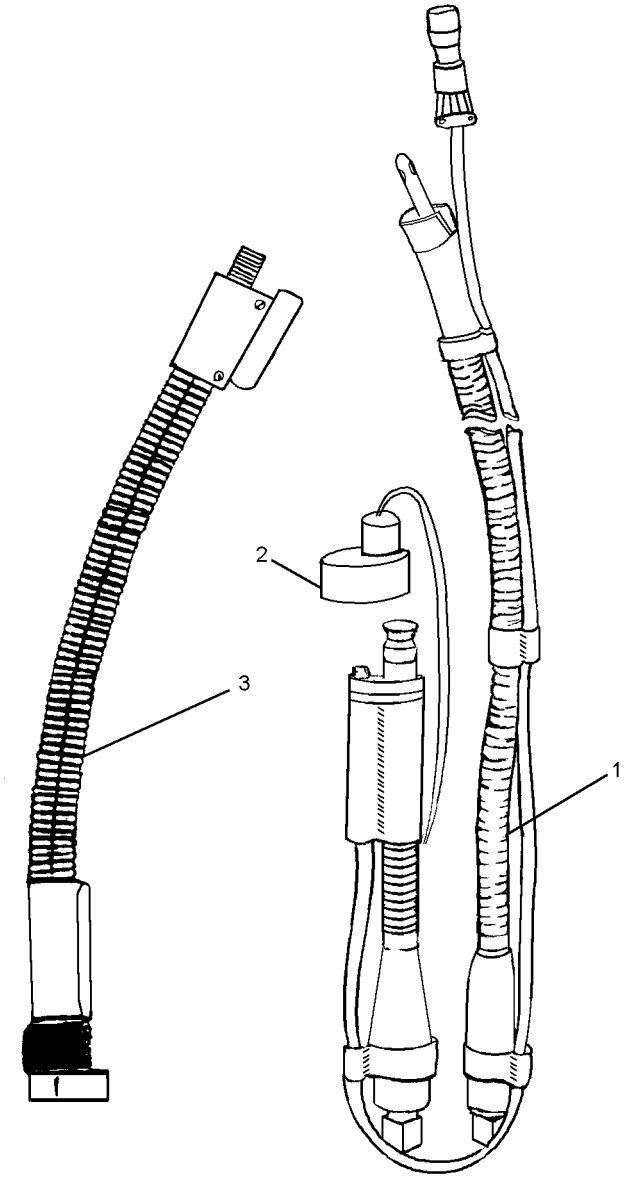


Figure 4-19. SKU-3/A Oxygen Hose Assembly

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
4-19-1	REDAR-A11259-1	. HOSE ASSEMBLY, Airduct, air breathing . . . . . (28445) (Note 1)	1	
-2	12031	. CAP AND LANYARD (31441)	1	
	REDAR-C10830	. CAP AND LANYARD (28445)	1	
-3	REDAR-A10116-2	. HOSE ASSEMBLY, Air Breathing (28445)	1	
	Notes: 1. To prevent receipt of incorrect hose assembly from supply, include Advice Code 2B (do not substitute) on requisition.			

Figure 4-20. Deleted

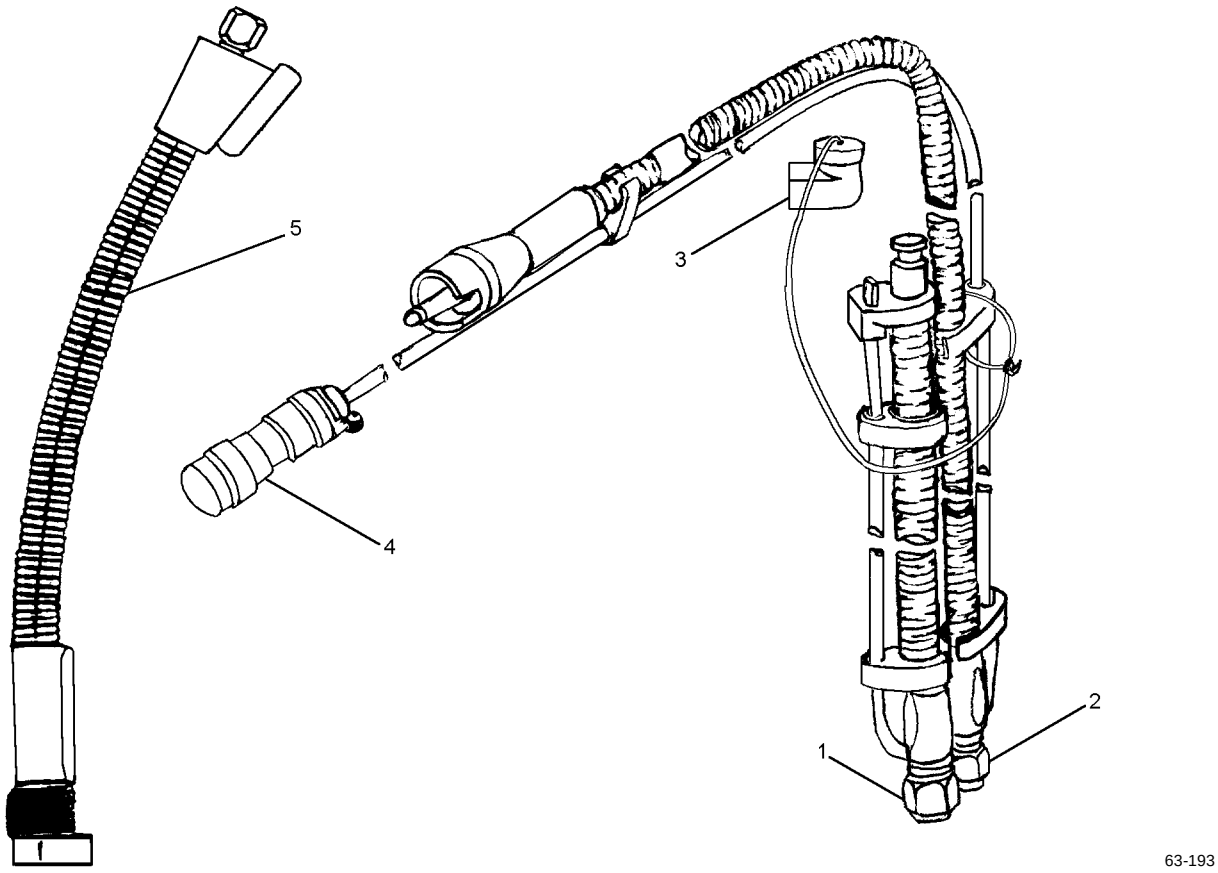
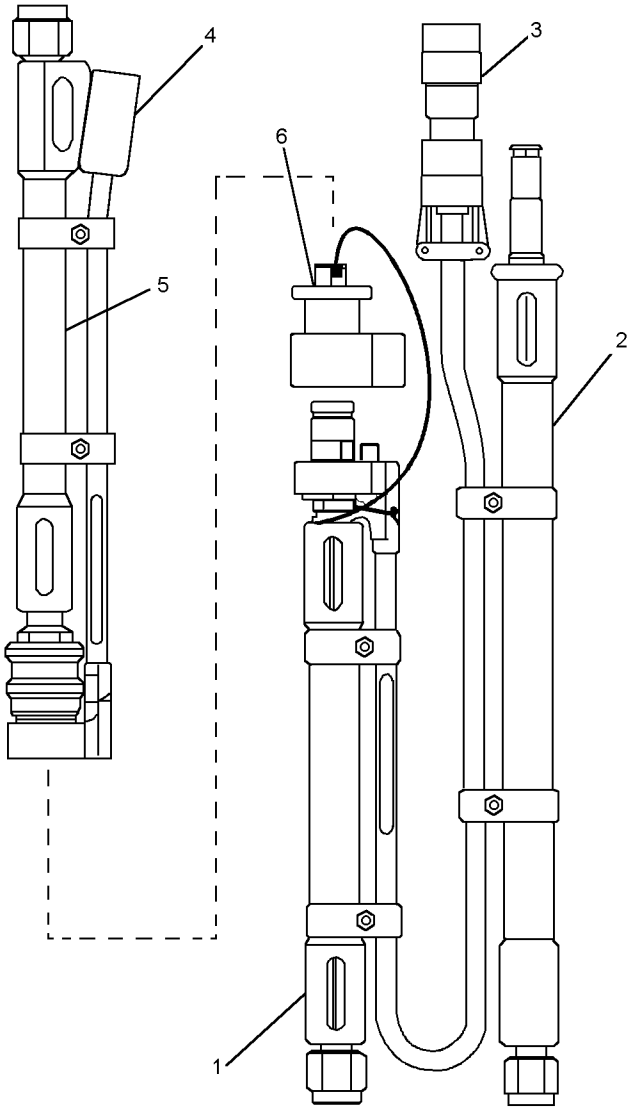


Figure 4-21. SKU-6/A Oxygen Hose Assembly

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
4-21	REDAR-A11226-1	HOSE ASSEMBLY (After ACC 489) (28445)	1	
	14073-19	HOSE ASSEMBLY (24632)	1	
-1	REDAR-A11227-1	. HOSE ASSEMBLY, Quick disconnect (28445) . . .	1	
	14073-21	. HOSE ASSEMBLY, Quick disconnect (24632) . . .	1	
-2	REDAR-A11228-1	. HOSE ASSEMBLY, Breakaway (28445)	1	
	14073-23	. HOSE ASSEMBLY, Breakaway (24632)	1	
-3	12031	. CAP AND LANYARD (31441)	1	
	REDAR-C10830	. CAP AND LANYARD (28445)	1	
-4	14073-15	. ELECTRICAL CONNECTOR	1	
-5	REDAR-A11206-2	. HOSE ASSEMBLY, Oxygen Generator (28445) . .	1	



63-194

Figure 4-22. SKU-7/A, SKU-10/A, and SKU-11/A Oxygen Hose Assemblies

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
4-22	MBEU147723-1	HOSE ASSEMBLY, Oxygen seat kit, SKU-7/A ..... (U1604)	1	
	57013-5	HOSE ASSEMBLY, Oxygen seat kit, SKU-7/A ..... (24984) (Note 1)	1	
	MBEU147724-1	HOSE ASSEMBLY, Oxygen seat kit, SKU-10/A, ... SKU-11/A (U1604)	1	
	57012-5	HOSE ASSEMBLY, Oxygen seat kit, SKU-10/A, ... SKU-11/A (24984) (Note 1)	1	
-1	MBEU148025	. OXYGEN HOSE SUBASSEMBLY, Seat kit ..... to regulator hose, SKU-7/A	1	
	57013-5-2	. OXYGEN HOSE SUBASSEMBLY, Seat kit ..... to regulator hose, SKU-7/A	1	
	MBEU148022	. OXYGEN HOSE SUBASSEMBLY, Seat kit ..... to regulator hose, SKU-10/A, SKU-11/A	1	
	57012-5-2	. OXYGEN HOSE SUBASSEMBLY, Seat kit ..... to regulator hose, SKU-10/A, SKU-11/A	1	
-2	MBEU148026	. OXYGEN HOSE SUBASSEMBLY, A/C ..... console to seat kit, SKU-7/A	1	
	57013-5-3	. OXYGEN HOSE SUBASSEMBLY, A/C ..... console to seat kit, SKU-7/A	1	
	MBEU148023	. OXYGEN HOSE SUBASSEMBLY, A/C ..... console to seat kit, SKU-10/A, SKU-11/A	1	
	57012-5-3	. OXYGEN HOSE SUBASSEMBLY, A/C ..... console to seat kit, SKU-10/A, SKU-11/A	1	
-3	MBEU148024	. CABLE/KEEPER ASSEMBLY, SKU-7/A	1	
	57013-5-1	. CABLE/KEEPER ASSEMBLY, SKU-7/A	1	
	MBEU148021	. CABLE/KEEPER ASSEMBLY, SKU-10/A, ... SKU-11/A	1	
	57012-5-1	. CABLE/KEEPER ASSEMBLY, SKU-10/A, ... SKU-11/A	1	
	MBEU147722-1	HOSE ASSEMBLY, Regulator, SKU-7/A, ... SKU-10/A, SKU-11/A (U1604)	1	
	57012-3	HOSE ASSEMBLY, Regulator, SKU-7/A, ... SKU-10/A, SKU-11/A (24984) (Note 1)	1	
-4	MBEU148019	. CABLE/KEEPER ASSEMBLY	1	
	57012-3-1	. CABLE/KEEPER ASSEMBLY	1	
-5	MBEU148020	. OXYGEN HOSE, SUBASSEMBLY, ... Regulator	1	
	57012-3-2	. OXYGEN HOSE, SUBASSEMBLY, ... Regulator	1	
-6	TBD	. CAP AND LANYARD ASSEMBLY ..... (Note 2)	1	

Notes:
1. Hose assembly ordered separately.
2. Must open purchase cap and lanyard assembly using drawing number ML251 from Hydroflow Inc., 13259 East 166th Street, Cerritos, CA 90701.

NUMERICAL INDEX

Part Number	Figure and Index Number	SM&R Code
MBEU147722-1	4-22	PAOOO
MBEU147723-1	4-22	PAOOO
MBEU147724-1	4-22	PAOOO
MBEU148019	4-22-4	PAOZZ
MBEU148020	4-22-5	PAOZZ
MBEU148021	4-22-3	PAOZZ
MBEU148022	4-22-1	PAOZZ
MBEU148023	4-22-2	PAOZZ
MBEU148024	4-22-3	PAOZZ
MBEU148025	4-22-1	PAOZZ
MBEU148026	4-22-2	PAOZZ
MS21964-18	4-14	
MS21964-20	4-14-1	
MS3367-1-9	4-17-3	
MS3367-6-9	4-17-4	
REDAR-A10067-2	4-13-2	
REDAR-A10116-2	4-15-3	
	4-16-3	
	4-17-6	
	4-18-3	
	4-19-3	
	4-20-3	
REDAR-A10566-1	4-13-1	
REDAR-A10577-1	4-16-1	
REDAR-A11206-2	4-21-5	
REDAR-A11226-1	4-21	AOOOG
REDAR-A11227-1	4-21-1	
REDAR-A11228-1	4-21-2	
REDAR-A11259-1	4-19-1	PAOGG
REDAR-C10830	4-15-2	
	4-16-2	
	4-17-5	
	4-18-3	
	4-19-2	
	4-20-2	
	4-21-3	
TBD	4-22-6	
1099AS101	4-17-2	
12ES10002-17	4-18-2	
12ES10002-19	4-18-2	
12031	4-15-2	PAOZZ
	4-16-2	PAOZZ
	4-17-5	PAOZZ
	4-18-3	PAOZZ
	4-19-2	PAOZZ
	4-20-2	PAOZZ
	4-21-3	PAOZZ
12081-2	4-13-1	PAOGG
14073-15	4-21-4	
14073-19	4-21	
14073-21	4-21-1	
14073-23	4-21-2	
33D1341-2	4-17-1	PAOGG
	4-20-1	PAOGG
33D1341-5	4-18-1	PAOGG
33D1349-1	4-15-1	
33D1350-1	4-16-1	
57012-3	4-22	PAOOO
57012-3-1	4-22-4	PAOZZ
57012-3-2	4-22-5	PAGZZ
57012-5	4-22	PAOOO
57012-5-1	4-22-3	PAOOO
57012-5-2	4-22-1	PAOZZ
57013-5-1	4-22-3	PAOZZ
57012-5-3	4-22-2	PAOZZ
57013-5	4-22	PAOOO
57013-5-2	4-22-1	PAOZZ
57013-5-3	4-22-2	PAOZZ
58520-00	4-17-1	XBGZZ

CHAPTER 5

SEAT PANS/SOFT PACK SURVIVAL KITS

Section 5-1. Description

5-1. GENERAL.

5-2. The Seat Pans (Douglas, P/N 5811863-503, and the SP-1A, P/N 68A74E1-1) are designed for use with both ejection and non-ejection seats and function as a seat for the aircrewman as well as a container for an emergency oxygen system (figures 5-1 through 5-3).

5-3. The Soft Pack Survival Kits (Standard Soft Pack, Special Soft Pack, High Speed Soft Pack and Modified High Speed Soft Pack) may be used with the seat pans and function as a container for a liferaft and survival items (figures 5-4 through 5-6).

5-4. CONFIGURATION.

5-5. The Douglas Seat Pan is constructed of fabric and a rigid structural member with foam shock and comfort cushion. The seat pan is attached to the High Speed Soft Pack, which houses the liferaft and survival items. Adjustable retaining straps on the soft pack provide for attachment to the seat pan and parachute. Flexible oxygen hoses on the seat pan provide connection between aircrewman and aircraft. The seat pan houses a 22 cu in., 1800 psi, emergency oxygen cylinder and hose assembly capable of supplying just over 10 minutes of breathing oxygen for high altitude bailout. Or, in the event of a failure of the aircraft oxygen system, emergency oxygen is available by pulling the manual oxygen release on the seat pan. Oxygen from the seat pan then flows to the aircrewman through the regulator in the seat pan. A check valve in the manifold prevents emergency oxygen from flowing into the aircraft system or overboard from the seat pan. The regulator is automatically actuated at ejection by a cable attached to the cockpit deck.

5-6. The SP-1A is constructed of a fabric cover and rigid structural member with a foam rubber filler. It is attached to the Standard Soft Pack and parachute harness by reeving the adjustable retaining strap on the soft pack through the keepers on the bottom of the seat pan, and the parachute leg straps through the leg strap slot in the seat pan. A flexible oxygen hose provides connection between aircrewman and oxygen bottle, a 22 cu in., 1800 psi, emergency oxygen cylinder capable of supplying just over 10 minutes of breathing oxygen for high altitude bailout. When the manual oxygen release is pulled, oxygen flows to the aircrewman through a metering orifice. Oxygen is actuated only by the manual oxygen release as no automatic feature is incorporated.

5-7. When seated aboard the aircraft, the aircrewman engages the ejector snaps with the V-rings on his parachute harness. The personal service leads are connected via quick-disconnect fittings.

5-8. SUBASSEMBLIES. The major subassemblies of the seat pans are:

1. Emergency Oxygen Bottle
2. Pressure Regulator (Douglas only)
3. Check Valve (Douglas only)

5-9. REFERENCE NUMBERS, ITEMS AND SUPPLY DATA.

5-10. Figures 5-17 through 5-20 contain information on each assembly, subassembly and component part of the seat pans. The figure and index number, reference or part number, description and units per assembly are provided.

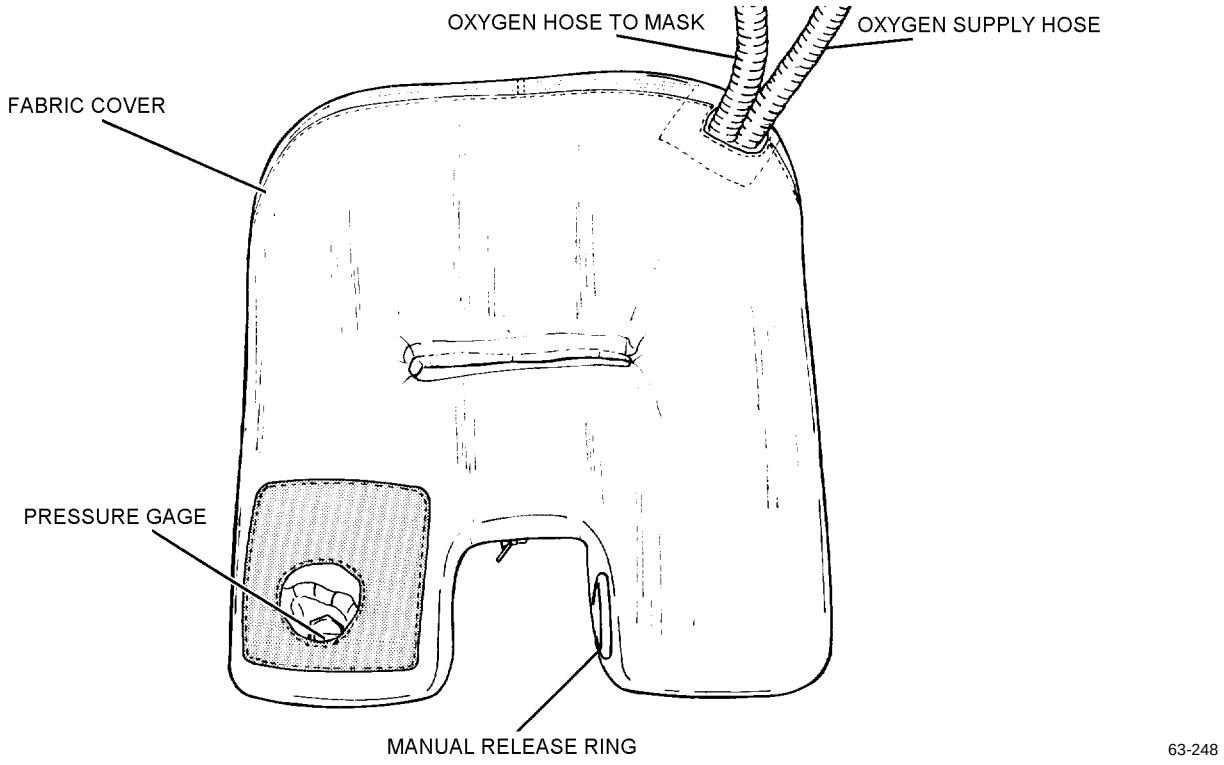


Figure 5-1. Douglas Seat Pan (Top)

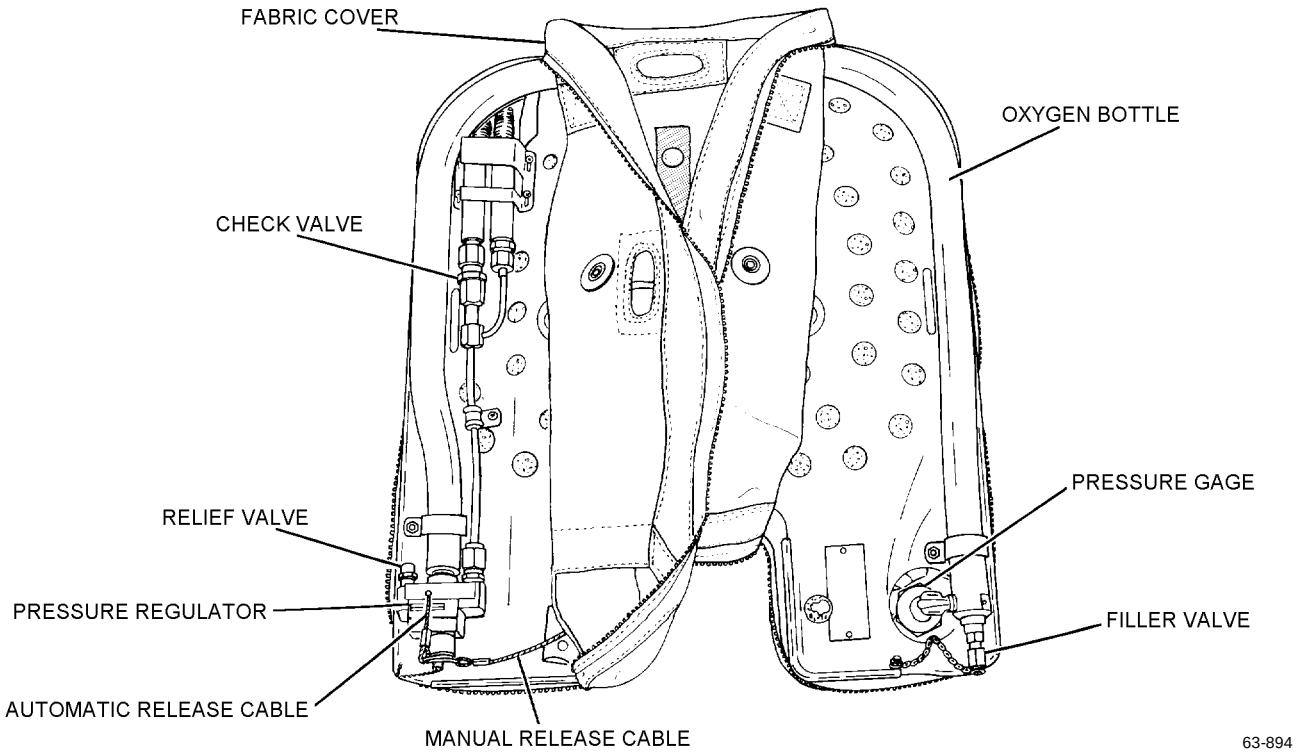


Figure 5-2. Douglas Seat Pan (Bottom)

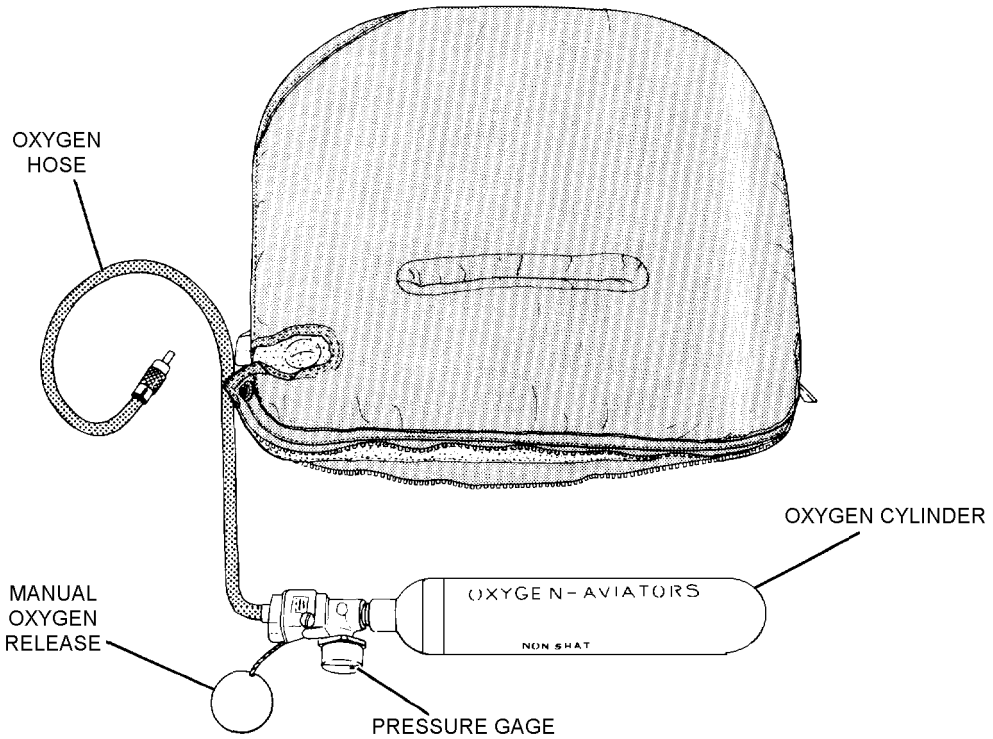


Figure 5-3. SP-1A Seat Pan

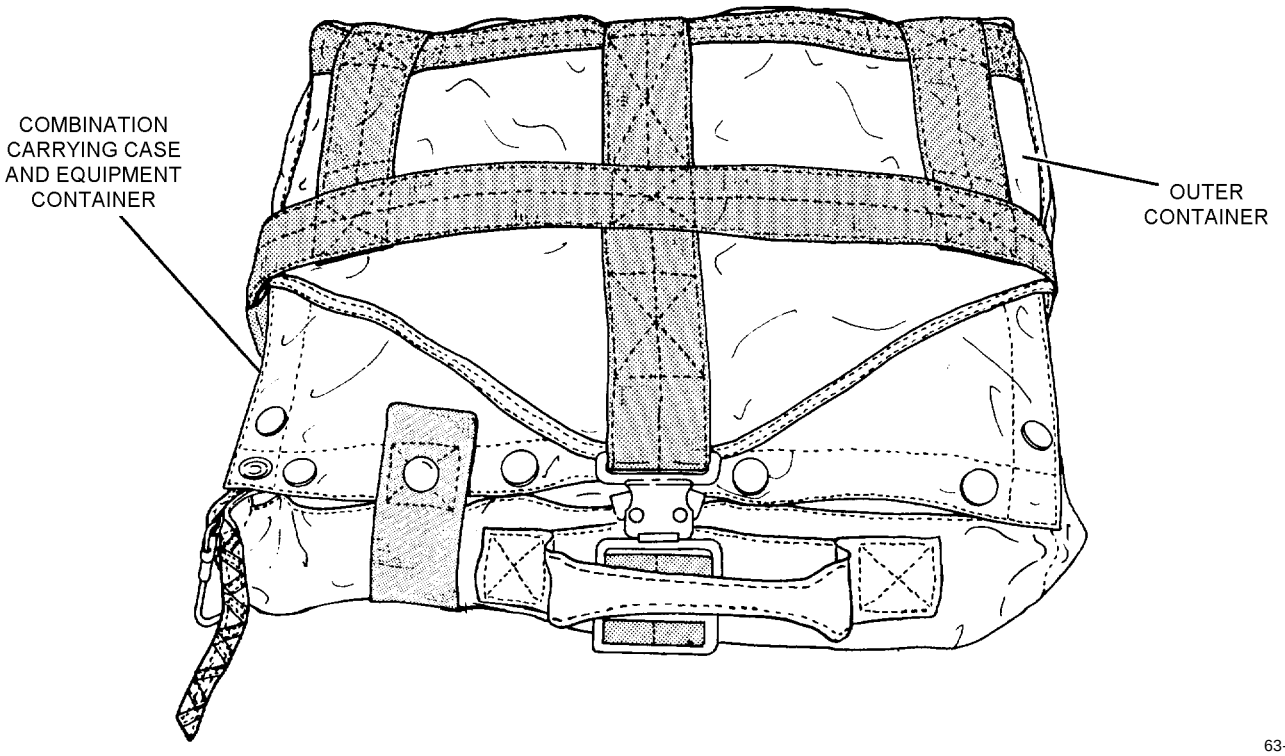


Figure 5-4. Standard Soft Pack

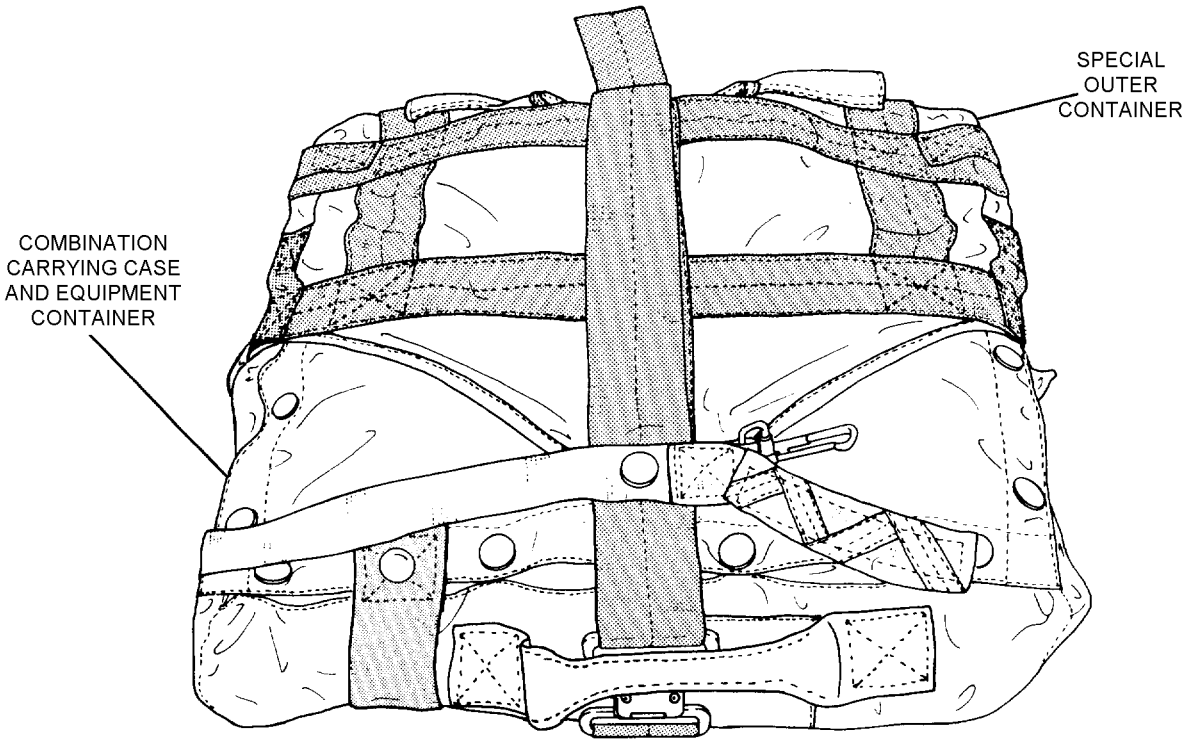


Figure 5-5. Special Soft Pack

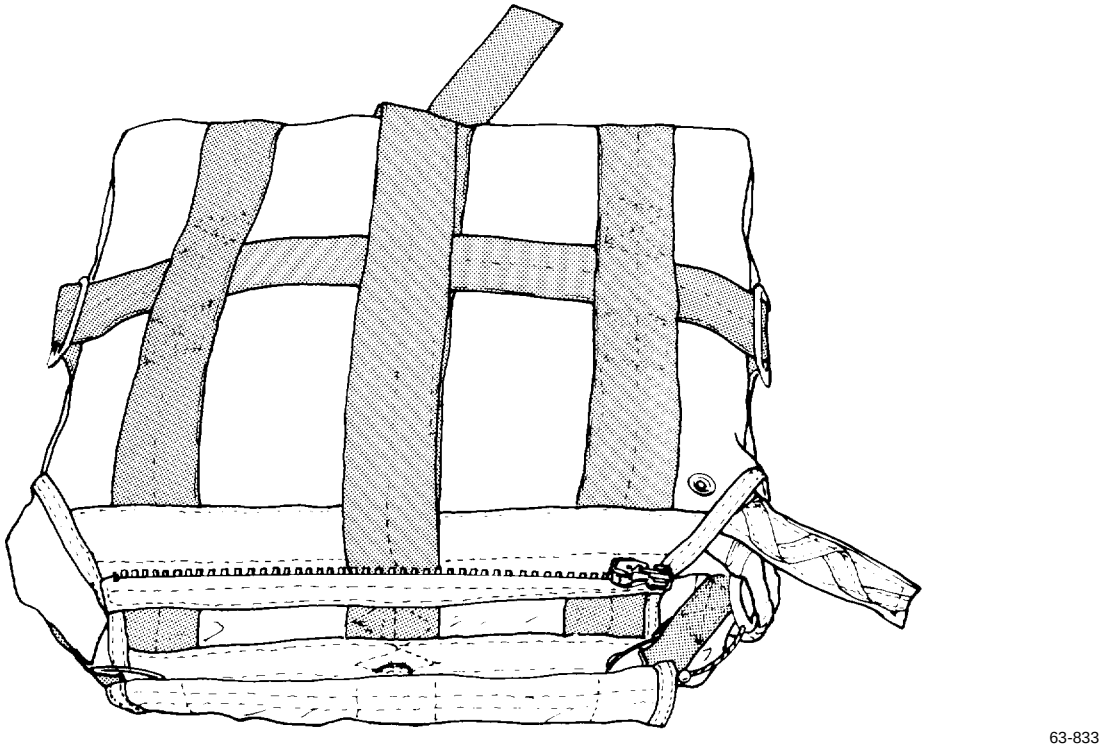


Figure 5-6. High Speed Soft Pack

5-11. APPLICATION.

5-12. The Douglas Seat Pan and High Speed Soft Pack are part of the survival equipment used by aircrewmen aboard A-4B, C, E and L aircraft. The SP-1A and Standard Soft Pack are part of the survival equipment used aboard aircraft using NC-3, NB-6, NB-8 and NS-3 parachute assemblies. The Special Soft Pack is part of the survival equipment used aboard A-6 series aircraft incorporating the MK-GRU5 Escape System. The Modified High Speed Soft Pack is part of the survival equipment used with the NB-8 parachute assembly aboard T-39 aircraft. Refer to NAVAIR 13-1-6.2.

5-13. FUNCTION.

5-14. When the aircrewman exits the aircraft, the following functions occur:

1. (Douglas Seat Pan) At seat ejection, the automatic actuation lanyard for the emergency oxygen system actuates the regulator assembly and supplies the aircrewman with emergency oxygen for descent. If automatic actuation of the emergency oxygen system fails, the emergency oxygen system may be actuated by means of the manual oxygen release. The liferaft, stowed with survival items in the High Speed Soft Pack, is inflated manually by pulling the inflation assembly pull toggle. The radio beacon is actuated by means of an automatic actuation lanyard at seat ejection. The beacon will provide a continuous signal during descent (figure 5-7).

2. (SP-1A Seat Pan) The aircrewman must manually actuate the emergency oxygen system by means of the manual oxygen release. There is no automatic actuation lanyard on this seat pan assembly. The liferaft, stowed with survival items in the Standard Soft Pack, is inflated manually by pulling the inflation assembly pull toggle (figure 5-8).

3. The Special Soft Pack, used in conjunction with a ventilated seat pad in A-6 series aircraft, houses the liferaft and survival items. The liferaft is inflated manually by pulling the inflation assembly pull toggle. The radio beacon is actuated by means of an automatic actuation lanyard at man/seat separation. The beacon will provide a continuous signal during descent.

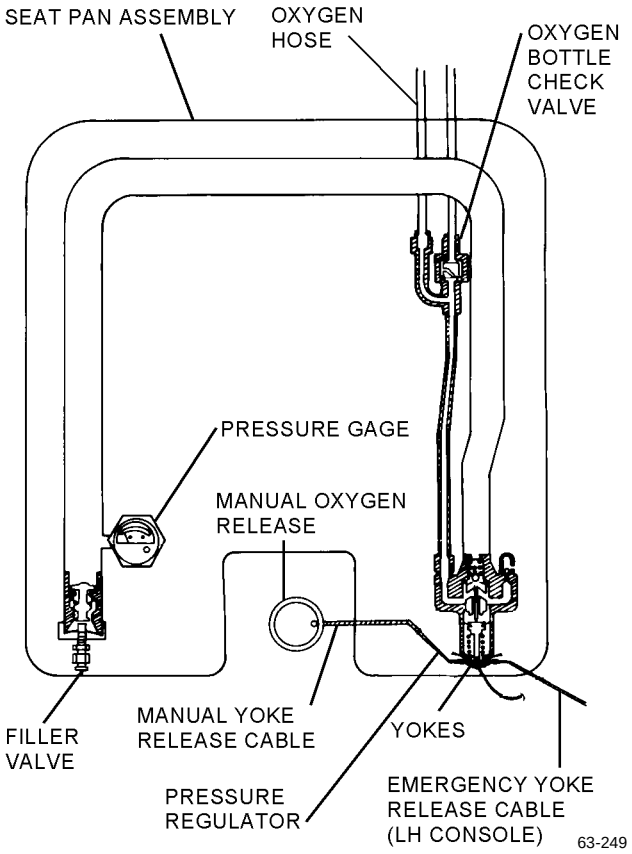


Figure 5-7. (Douglas) Oxygen Schematic

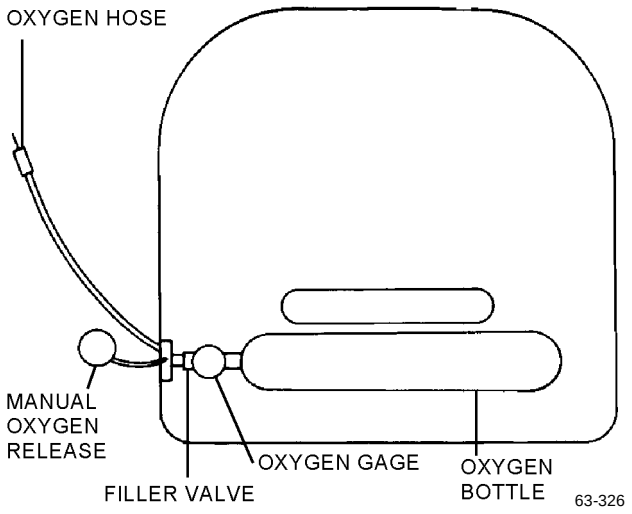


Figure 5-8. (SP-1A) Oxygen Schematic

Section 5-2. Modifications

5-15. GENERAL.

5-16. The seat pan/soft pack survival kit shall be updated by comparing the configuration of the assembly with the directives listed in table 5-1.

Table 5-1. Seat Pan/Soft Pack Survival Kit Directives

Description Of Modification	Application	Modification Code
Installation of AN/URT-33A Emergency Radio Beacon in Douglas Seat Pan	All Douglas Seat Pans installed in A-4 series aircraft	66-161, Part IV, Amend. 1
Installation of AN/URT-33A Emergency Radio Beacon in the LR-1 (Special) Survival Kit	All LR-1 (Special) Survival Kits installed in A-6 series aircraft	66-161, Part VI
Addition of Slide Fastener to SP-1A Seat Pan	All SP-1A Seat Pans used with LRU-7/P Liferaft System in QT-33A aircraft	66-181
Addition of Pile Tape to High speed Soft Pack	All High speed Soft Packs installed in T-39 aircraft	60-19
Removal of AN/URT-33A Radio Beacon	All LR-1 Standard Soft Packs installed in E-2 aircraft	66-473 Amend. 1

Section 5-3. Rigging and Packing

5-17. GENERAL.

5-18. Unless operational requirements demand otherwise, rigging and packing of the seat pans and soft pack survival kits shall be accomplished at the Intermediate Level of maintenance by qualified personnel every 448 days.

NOTE

Quality assurance steps are provided for critical operations. When a step is underlined, the Aircrew Survival Equipmentman shall perform the operation and then have performance verified by Quality Assurance (QA).

5-19. RIGGING AND PACKING PROCEDURES.

5-20. Rigging and packing of the seat pans and soft pack survival kits is accomplished in twelve separate operations as follows:

1. Preliminary Procedures

2. Radio Beacon Rigging and Installation (Douglas Seat Pan)

3. Radio Beacon Rigging and Installation (Special Soft Pack)

4. Radio Beacon Rigging and Installation (Standard Soft Pack)

5. Survival Equipment Binding

6. Survival Equipment Packing (High Speed Soft Pack)

7. Survival Equipment Packing (Standard and Special Soft Packs)

8. Liferaft Preparation, Folding, Rigging and Packing (Standard, Special and High Speed Soft Packs)

9. Liferaft Preparation, Folding, Rigging and Packing (Modified High Speed Soft Pack)

10. Attachment of Seat Pan and Soft Pack to Parachute (Refer to NAVAIR 13-1-6.2)

11. Cockpit Routing and Installation of the Emergency Radio Beacon Lanyard (Douglas Seat Pan)

12. Cockpit Routing and Installation of the Emergency Radio Beacon Lanyard (Special Soft Pack)

5-21. PRELIMINARY PROCEDURES. The following preliminary procedures shall be accomplished prior to rigging and packing the seat pans and soft pack survival kits.

1. Ensure that the seat pan and soft pack survival kit and components have been inspected in accordance with Section 5-5.

2. Inspect oxygen hose assemblies in accordance with Chapter 4.

3. Disassemble seat pan and soft pack by removing combination carrying case and equipment container from special outer container.

4. Inspect special outer covering for damage, fabric for loose, broken or frayed stitching, and hardware for security of attachment, corrosion, damage, wear, and ease of operation.

WARNING

CO_2 bottle is under pressure. Use caution when disconnecting CO_2 bottle from liferaft. Do not loosen or attempt to remove inflation valve assembly from CO_2 cylinder.

CAUTION

Ensure actuating line is disconnected from CO_2 cylinder inflation valve before removal of CO_2 cylinder from liferaft.

5. Disconnect CO_2 cylinder from liferaft as follows:

a. Carefully remove liferaft from container.

b. Disconnect actuation line from CO_2 cylinder.

c. Disconnect CO_2 cylinder from liferaft.

d. Remove liferaft retaining line from CO_2 cylinders neck.

e. Ensure anti-chafing disc is installed. Reconnect CO_2 cylinder to liferaft finger tight. If functional test is required torque valve 80 to 90 in-lbs.

6. Ensure liferaft and CO_2 cylinder have been inspected in accordance with NAVAIR 13-1-6.1-1.

7. Ensure survival items have been inspected in accordance with NAVAIR 13-1-6.5.

NOTE

Ensure battery service life does not expire prior to the next scheduled inspection cycle of the assembly in which the radio set is installed. Refer to NAVAIR 16-30URT33-1 for battery service life.

8. Remove radio beacon set from kit and ensure that the battery and radio beacon have been inspected in accordance with NAVAIR 16-30URT33-1.

9. Check soft pack assembly for cuts, tears and abrasions and hardware for security of attachment, corrosion, damage, wear, and if applicable, ease of operation.

5-22. RADIO BEACON RIGGING AND INSTALLATION (DOUGLAS SEAT PAN). To rig and install the AN/URT-33 Emergency Radio Beacon in the Douglas Seat Pan, proceed as follows:

Materials Required

Quantity	Description	Reference Number
1	Beacon Set, Radio AN/URT-33A	MIL-B-38401A
1	Actuator Indicator Assembly	CL204D3-11 (CAGE 80206) NIIN 00-127-5597
1	Lanyard, Actuation	CL204C4-4 (CAGE 80206)
As Required	Thread, Nylon, Type II, Class A, Size E	V-T-295 NIIN 00-244-0609

Support Equipment Required

Quantity	Description	Reference Number
As Required	T-wrench	Fabricate IAW paragraph 5-69

NOTE

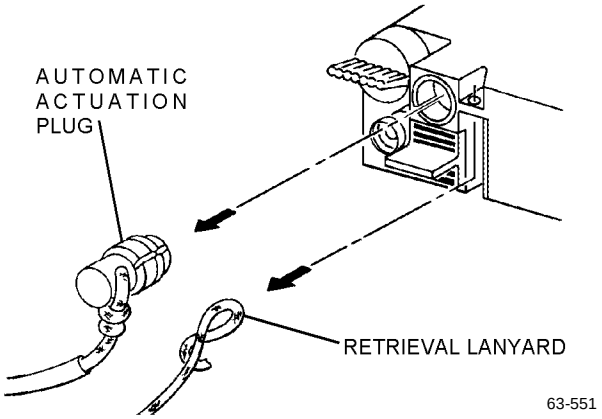
Ensure slider switch on radio beacon is OFF. Slider switch is in OFF position when word ON is not visible on radio beacon housing.

Determine if beacon has been modified in accordance with steps 1 through 8 before proceeding to step 9.

Retain automatic actuation plug, lanyard, and metal insert in shop area for possible future use.

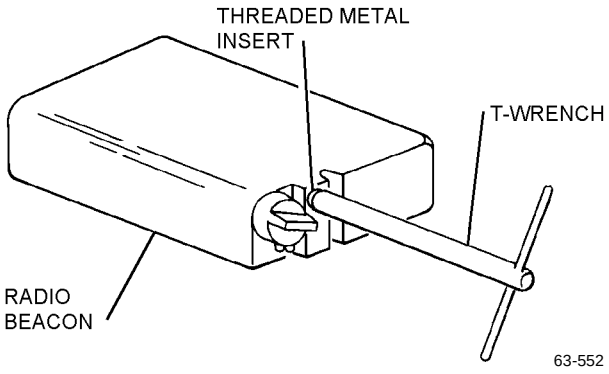
1. Open seat pan slide fastener and pull back cover from cushion.

2. Remove automatic actuation plug and lanyard from radio beacon and retain. Remove and discard retrieval lanyard.



Step 2 - Para 5-22

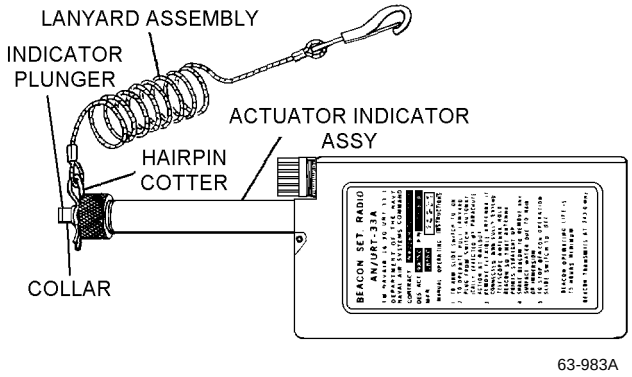
3. Remove threaded metal insert from beacon using T-wrench. (Fabricate T-wrench in accordance with paragraph 5-69.)



Step 3 - Para 5-22

4. Install actuator indicator assembly into position in beacon from which threaded metal insert was removed.

5. Depress indicator plunger, align holes in collar and plunger, and insert hairpin cotter attached to actuation lanyard. Ensure hairpin cotter loop is facing down to aid in guiding pin through hole in bottom of cushion support.



Step 5 - Para 5-22

6. Ensure hairpin cotter and collar are free to rotate 360° without binding. If hairpin cotter and collar are free proceed to step 7. If hairpin cotter and collar do not rotate, refer to NAVAIR 16-30URT33-1.

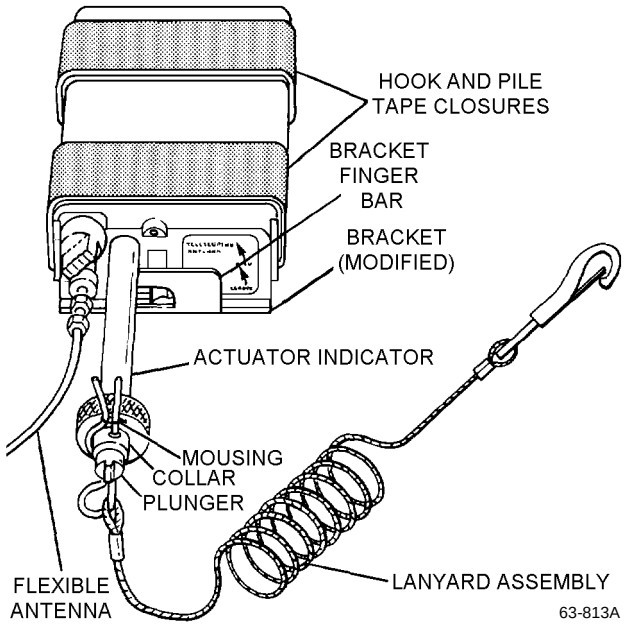
7. Safety-tie open end of actuation lanyard hairpin cotter by applying single-loop mousing. Use size E nylon thread and secure mousing loop with square knot. Cut off excess length approximately 1/8 inch from knot.

8. Connect flexible antenna to radio beacon. Push bayonet-type fitting in and turn to right.

NOTE

To prevent accidental transmission of inaudible emergency distress signal, ensure indicator plunger is secure in depressed position before beacon ON/OFF slider switch is placed in ON (armed) position.

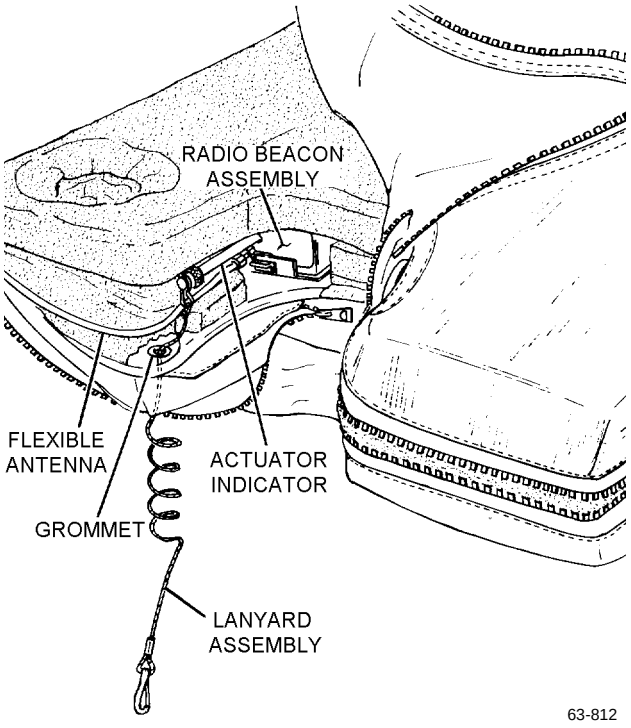
9. Place slider switch in the ON (armed) position and install beacon in bracket. Ensure slider switch is secure in the ON position under bracket finger bar then secure beacon in bracket with hook and pile tape fasteners.



Step 9 - Para 5-22

10. Insert beacon into cut-out portion of seat pan. Pass actuation lanyard through hole in seat pan and grommet.

11. Route antenna around outer edge of seat pan.



Step 11 - Para 5-22

12. Reinstall cover on cushion and close slide fastener.

5-23. RADIO BEACON RIGGING AND INSTALLATION (SPECIAL SOFT PACK). To rig and install the AN/URT-33 Emergency Radio Beacon in the Special Soft Pack, proceed as follows:

Materials Required

Quantity	Description	Reference Number
1	Beacon Set, Radio AN/URT-33A	MIL-B-38401A
1	Snaphook	NIIN 01-034-6798

Support Equipment Required

Quantity	Description	Reference Number
1	T-wrench	Fabricate IAW paragraph 5-69

NOTE

Ensure slider switch on radio beacon is OFF. Slider switch is in OFF position when word ON is not visible on radio beacon housing.

Determine if beacon has been modified in accordance with steps 1 through 4 before proceeding to step 5.

1. Remove Combination Carrying Case and Equipment Container from Special Outer Container.

2. Remove raft and survival items from Combination Carrying Case and Equipment Container.

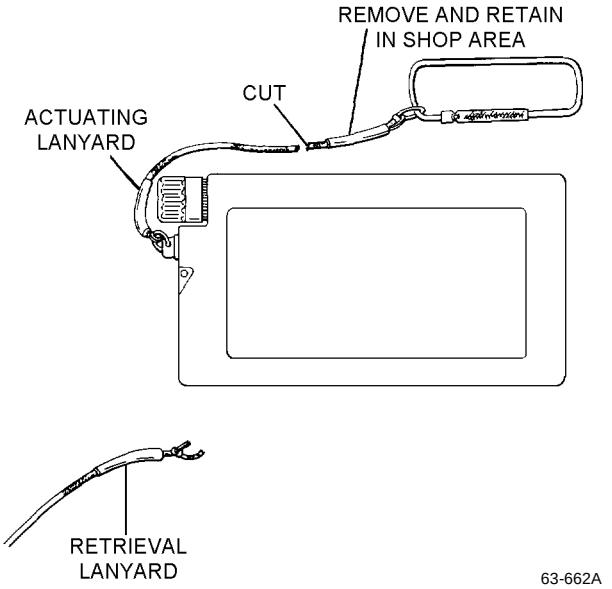
NOTE

Care must be taken to avoid unnecessary emergency signal transmission when handling and working with radio beacon. Do not remove actuating plug at any time except for test of transmission.

Verify identity of lanyard before removal. Do not mistake actuating lanyard for retrieval lanyard.

3. Remove retrieval lanyard from radio beacon and discard lanyard.

4. Replace outer end-fitting of actuating lanyard with snaphook.



Step 4 - Para 5-23

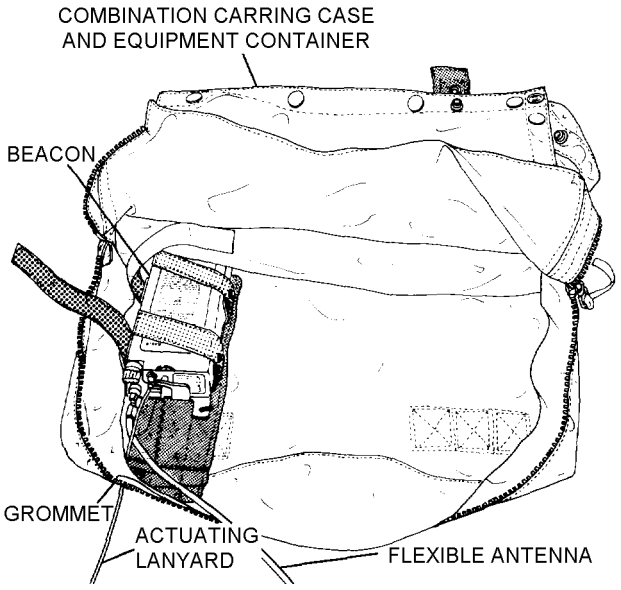
a. Cut and sear actuating lanyard at a point near fitting at outer end.

b. Tie overhand knot at seared end of actuating lanyard.

c. Tie snaphook to seared end of actuating lanyard using bowline knot. Position cord-end overhand knot snugly against bowline knot.

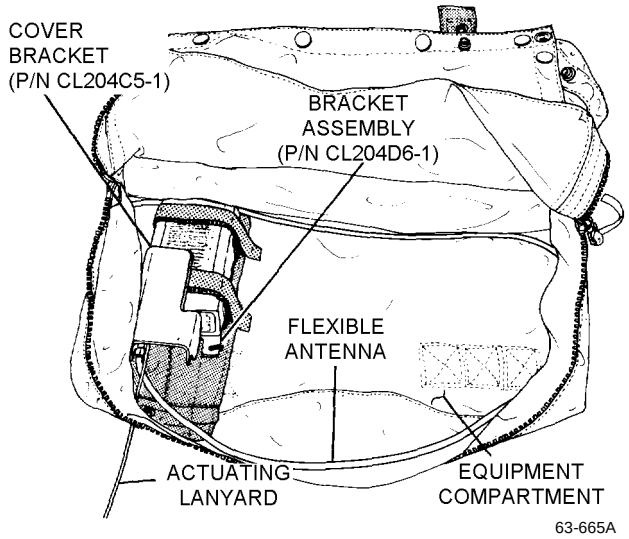
d. Retain end-fitting removed from actuating lanyard for possible future use.

5. Connect flexible antenna to beacon. Pass snaphook on end of actuating lanyard through grommet in Combination Carrying Case and Equipment Container. Push slider switch on beacon to ON, and fit beacon into bracket. When correctly installed, arm on bracket will prevent movement of beacon slider switch and keep it in ON position.



Step 5 - Para 5-23

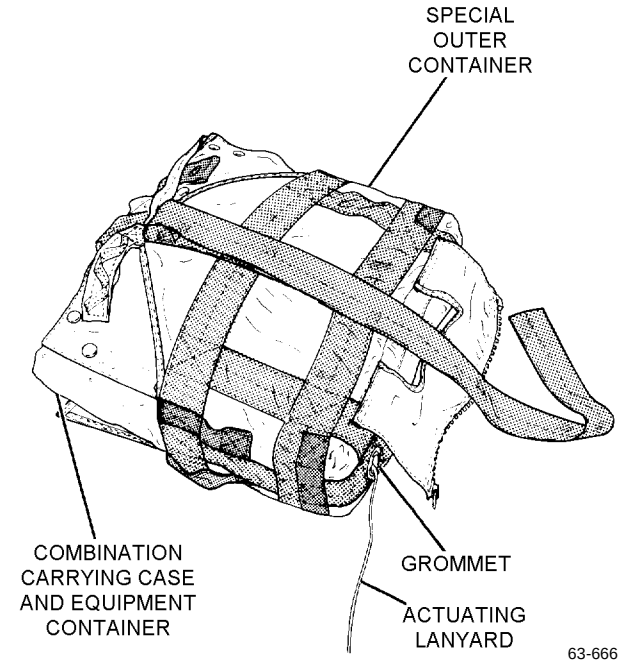
6. Position cover bracket over beacon as shown, and secure hook and pile tape closure straps. Route antenna through clearance at corner of cover bracket around edge of equipment compartment.



Step 6 - Para 5-23

7. Repack Combination Carrying Case and Equipment Container in accordance with paragraphs 5-27 and 5-28.

8. Route actuating lanyard through grommet in Special Outer Container and install Combination Carrying Case and Equipment Container in Special Outer Container. Leave no slack in actuating lanyard, either inside Combination Carrying Case and Equipment Container or in Special Outer Container.



Step 8 - Para 5-23

5-24. RADIO BEACON RIGGING AND INSTALLATION (STANDARD SOFT PACK ONLY). To rig and install the AN/URT-33 Emergency Radio Beacon in the Standard Soft Pack, proceed as follows:

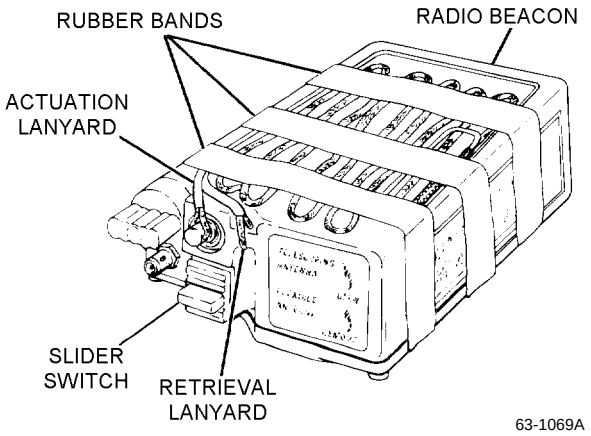
Materials Required

Quantity	Description	Reference Number
1	Beacon Set, Radio AN/URT-33A	MIL-B-38401A
3	Rubber bands, Type 1	MIL-R-1832 NIIN 00-568-0323

NOTE

Ensure slider switch on radio beacon is OFF. Slider switch is in OFF position when word ON is not visible on radio beacon housing. Do not pull actuation plug with beacon slider switch in ON position. Beacon will transmit inaudible emergency distress signal.

1. Ensure the retrieval lanyard is attached at both ends with a bowline knot with an overhand knot tied at the tag end. Accordion-fold retrieval and actuation lanyards on top of the beacon and attach with three rubber bands.



Step 2 - Para 5-24

5-25. SURVIVAL EQUIPMENT BINDING. Ensure all survival items have been inspected in accordance with NAVAIR 13-1-6.5 Technical Manual before binding. To bind survival items, proceed as follows (table 5-2).

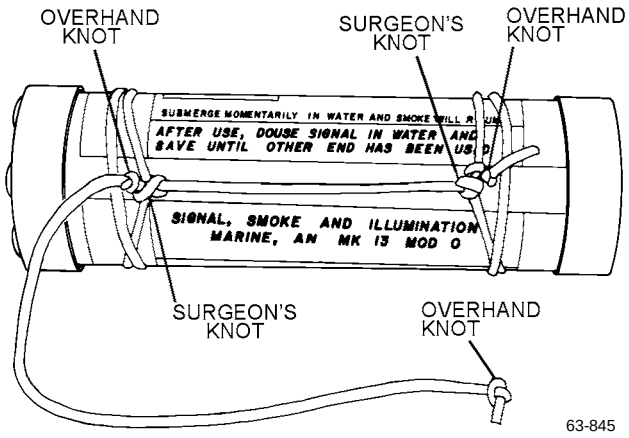
NOTE

To prevent loss of survival items, tie items individually and then tie to 140-inch length of nylon cord. Nylon cord of prescribed lengths required for this procedure shall be seared at both ends to prevent fraying (table 5-3).

All cord used shall be Type I nylon (MIL-C-5040).

1. Using a 36-inch piece of nylon cord, tie an overhand knot in each end. Wrap one end of cord two overlapping turns around one end of signal flare (MK-13 MOD 0 or MK-124) and tie with surgeon's knot. Position cord-end overhand knot snugly against surgeon's knot.

2. Route cord to opposite end of signal flare. Wrap cord two overlapping turns around end of flare and tie with surgeon's knot followed by an overhand knot positioned snugly against surgeon's knot. Cord between end-ties shall be drawn tight.



Step 2 - Para 5-25

Table 5-2. Survival Kit Items (Note 1)

Item Name	Quantity	Reference Number
Cord, (Nylon), Fibrous Type I	50 ft	NAVAIR 13-1-6.5
Signal, (Flare), Smoke and Illumination, MK-13 MOD 0 or MK-124 MOD 0 (Note 2)	2	NAVAIR 13-1-6.5
Sea (Dye) Marker, Fluorescein	2	NAVAIR 13-1-6.5
Sponge, (Bailing), Cellulose Type II, Class 2	1	NAVAIR 13-1-6.5
SRU-31/P Survival Kit, Packet #1 (Medical) (Note 3)	1	NAVAIR 13-1-6.5
SRU-31/P Survival Kit, Packet #2 (General) (Note 3)	1	NAVAIR 13-1-6.5
SRU-31A/P (Note 7)	Optional	NAVAIR 13-1-6.5
Water, Drinking, Canned (Note 4)	1	NAVAIR 13-1-6.5
Water, Drinking, Emergency (Note 6)	3	NAVAIR 13-1-6.5
Opener, Can, Hand	1	NAVAIR 13-1-6.5
Ground/Air Emergency Code Card	1	NAVAIR 13-1-6.5
Blanket, (Combat) Casualty, (3 oz) (Note 5)	1	NAVAIR 13-1-6.5
Envelope, Packing List	2	NAVAIR 13-1-6.5
Beacon Set, Radio	1	NAVAIR 13-1-6.5
Liferaft, Inflatable	1	NAVAIR 13-1-6.1-1

Notes:

1. The items listed are typical and are considered mandatory for inclusion in the survival kit container. Deviation from the listed items may be required by certain Functional Air Wings (FUNCWINGS), Carrier Air Wings (CVW), COMFAIRS, or Marine Air Wings (MAW). Requests for deviations must be forwarded to and authorized by TYCOMS and with information to Fleet Support Team (FST) at NAVAIR-WARCENACDIV Patuxent River MD via Naval Message. When optional items are substituted, particular attention must be paid to the binding sequence so that physical sizes and binding order of substituted items remain approximately the same. That portion of an item name in parentheses is a common-use name or container size and is not intended for supply requisition purposes.
2. MK-13 MOD 0 shall be used until stocks are depleted. MK-124 MOD 0 will replace MK-13 MOD 0 as stocks become available.
3. SRU-31/P complete kits including Medical Packet (#1) and General Packet (#2) may be ordered; instructions for packing and ordering these kits are found in NAVAIR 13-1-6.5.
4. One additional canned water may be added as optional equipment.
5. Optional equipment.
6. When the supply for emergency canned water has been exhausted, order emergency bagged water in accordance with NAVAIR 13-1-6.5.
7. The selection of SRU-31/P or SRU-31A/P Individual Aircrewmember's Survival Kit will be at the discretion of the TYPE COMMANDER depending on mission requirements, reference NAVAIR 13-1-6.5, Chapter 9, for detailed information.

Table 5-3. Nylon Cord Lengths Required for Binding

Length (Inches)	No. Required
140	1
12 (Note 1)	4
30	2
36	3
40	2
50 (Note 1)	2

Notes: 1. When using bagged water in place of canned emergency water, the number of required 12 inch lengths will be a total of 5 and the required 50 inch lengths will be a total of 1.

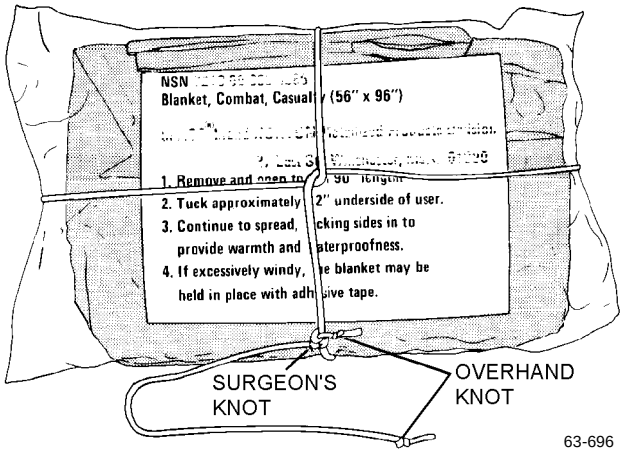
3. Tie the other signal flare in the same manner as steps 1 and 2.

4. Using a 12-inch piece of nylon cord, tie an overhand knot near each end. Pass overhand knot through center grommet in dye marker and tie a bowline knot, allowing approximately a 1-inch loop. Bowline knot shall lie snugly against overhand knot.

Step 4 - Para 5-25

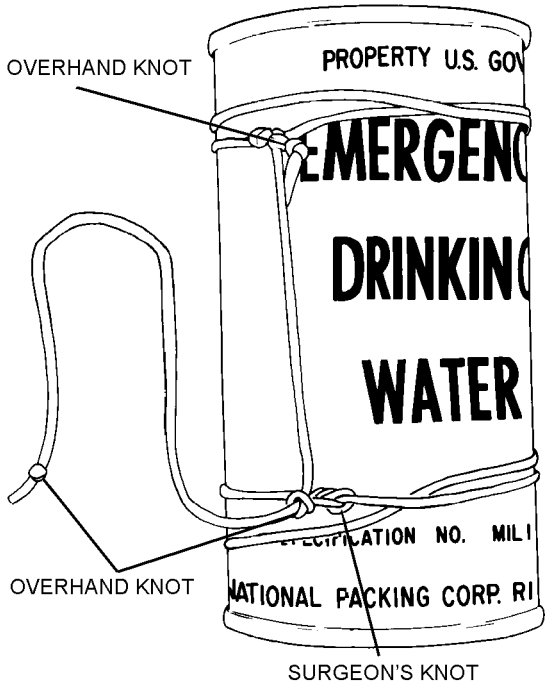
5. Tie the second dye marker in the same manner as step 4.

6. If casualty blanket is used, tie an overhand knot near each end of a 30-inch piece of nylon cord. Wrap cord around blanket until cord ends meet, then rotate cords 1/4 turn and wrap cords around opposite sides of blanket. Tie with a surgeon's knot. The cord-end overhand knot shall be positioned snugly against surgeon's knot.



Step 6 - Para 5-25

7. Using a 50-inch piece of nylon cord, tie an overhand knot near both ends. Wrap one end of cord two overlapping turns around end of canned water and tie with surgeon's knot. Position cord-end overhand knot snugly against surgeon's knot. Route cord to opposite end of can. Wrap cord two overlapping turns around can and tie with surgeon's knot followed with an overhand knot positioned snugly against surgeon's knot. Cord between end-ties shall be drawn tight.



63-697

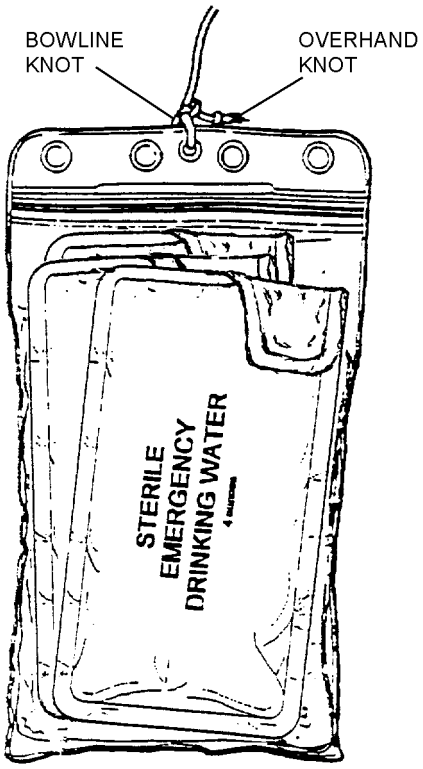
Step 7 - Para 5-25

8. If a second canned water will be used, secure in the same manner as step 7.

NOTE

Replacement rate of exhausted canned water shall be in accordance with the NAVAIR 13-1-6.5 manual. Bagged emergency drinking water shall be stowed in the same order and location as canned emergency water. The bags of water shall be stowed in a flat configuration.

9. Bagged water. Place a maximum of three 4-ounce bagged emergency drinking water flat inside a clear vinyl envelope (MIL-B-117) with pour spout folded down. Bagged water must be able to fit into envelope without disrupting the closure of the sealing slide fastener. Close the sealing slide fastener. Using a 12-inch length of nylon cord, tie an overhand knot in each end and pass knot through center hole in envelope. Secure with bowline knot, allowing an approximate 1-inch loop. Position an overhand knot snugly against the bowline knot. Ensure overhand knot is snug against surgeon's knot.



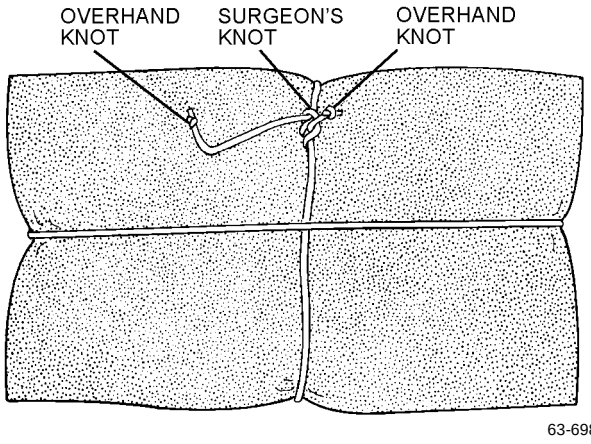
63-22

Step 9 - Para 5-25

NOTE

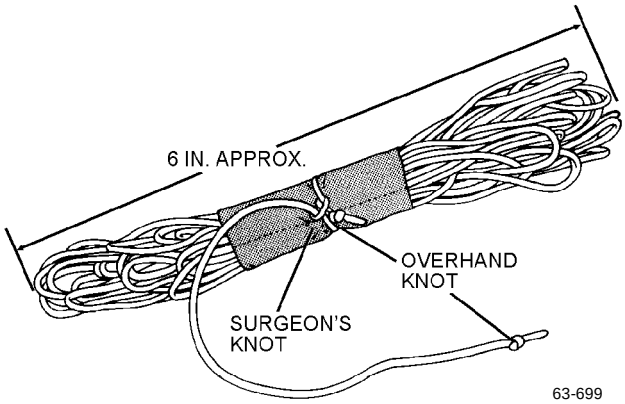
The bailing sponge should be compressed to a minimum thickness by compressing while damp and then allowing to dry in the compressed state before tying.

10. Using a 30-inch length of nylon cord, tie an overhand knot near the ends. Wrap cord around sponge until cord ends meet, then rotate cords 1/4 turn and wrap cords around opposite sides of sponge. Tie with a surgeon's knot with cord-end overhand knot positioned snugly against surgeon's knot.



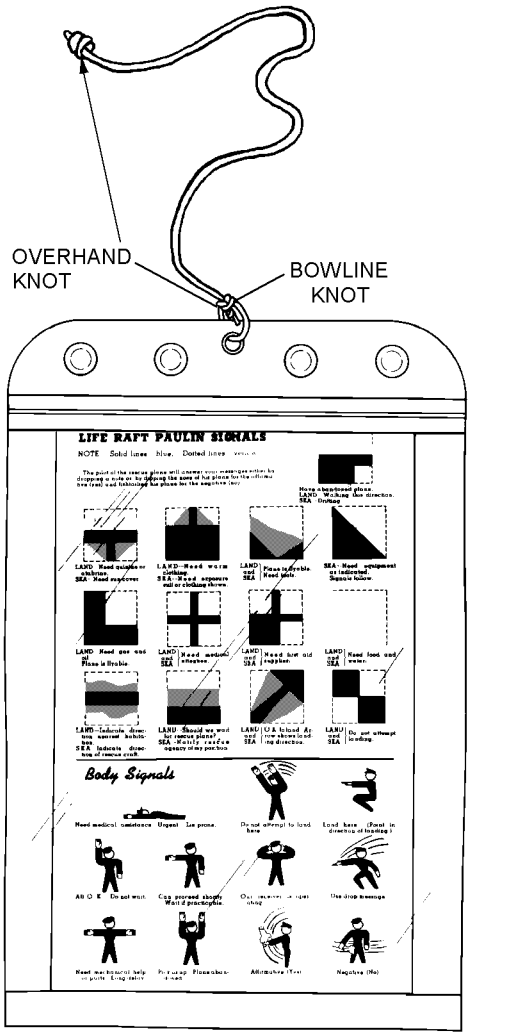
Step 10 - Para 5-25

11. Cut one 2 x 3-inch piece of nylon duck material. Accordion fold the 50-foot length of nylon cord in 6-inch bights, and wrap material around center of folded cord. Using a 12-inch piece of nylon cord, tie an overhand knot near each end and secure one end of cord to center of material with a surgeon's knot. Cord-end overhand knot shall be positioned snugly against surgeon's knot.



Step 11 - Para 5-25

12. Place Ground/Air Emergency Code Card into clear vinyl plastic envelope (MIL-B-117) and close the sealing zipper. Using a 12-inch piece of cord, tie an overhand knot in each end and pass knot through center hole in envelope. Secure with a bowline knot, allowing 1-inch loop. Position bowline knot and cord-end overhand knot snugly together.

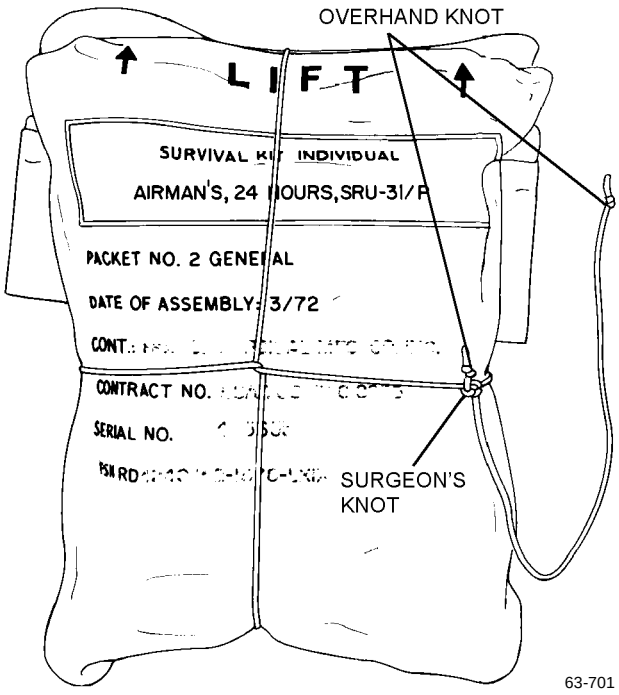


Step 12 - Para 5-25

NOTE

SRU-31/P Packet #1 (Medical) shall be folded approximately in half prior to tying.

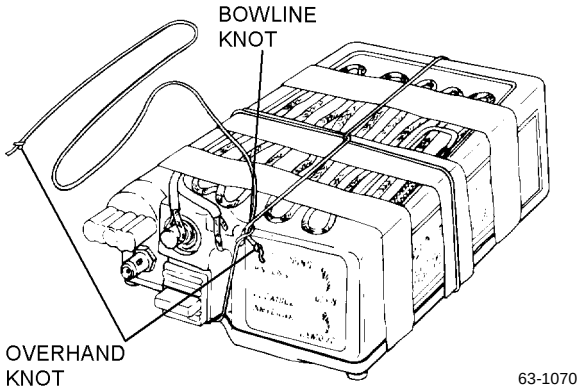
13. Using a 40-inch length of nylon cord, tie an overhand knot in both ends. Wrap cord around one packet of SRU-31/P Survival Kit until cord ends meet, then rotate cords 1/4 turn and wrap cords around opposite sides of packet. Tie with a surgeon's knot. Position cord-end overhand knot snugly against surgeon's knot.



Step 13 - Para 5-25

14. Secure the second SRU-31/P packet in the same manner as step 13.

15. (Standard Soft Pack Only) Using a 36-inch length of nylon cord, tie an overhand knot at both ends. Wrap cord around side of AN/URT-33 radio beacon until cord ends meet, then rotate cords 1/4 turn and wrap cords around opposite sides of radio beacon. Tie with a surgeon's knot positioned snugly against cord-end overhand knot.



Step 15 - Para 5-25

16. Ensure survival items are properly tied.

17. Using the 140-inch length of Type I nylon cord, form a 3/4 to 1-inch overhand loop approximately 12 inches from one end. Continue forming these loops every five inches until enough loops are formed to accommodate all survival items. Ensure a minimum of 25 ±1 inches of cord remains after last overhand loop is formed.

18. Tie each item to a loop on the 140-inch nylon cord using a surgeon's knot. Ensure each item's cord-end overhand knot is snugly against surgeon's knot.

CAUTION

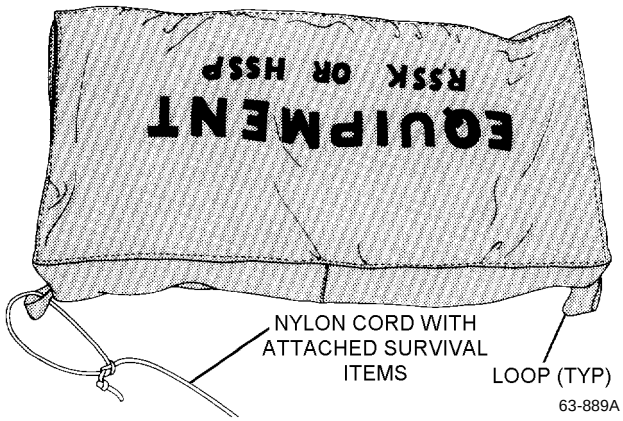
Ensure pointed end of can opener has adequate chafing cloth to prevent damage to other survival items.

19. Route one end of the 140-inch cord through the hole in the can opener and secure with a 1-inch loop bowline knot, followed by an overhand knot positioned snugly against bowline knot. Wrap can opener with chafing cloth secured by a rubber band (figure 5-9).

5-26. SURVIVAL EQUIPMENT PACKING (HIGH SPEED SOFT PACK). To pack survival equipment in the High Speed Soft Pack, proceed as follows:

1. Place equipment container on table with attaching loops facing packer and the word EQUIPMENT facing up.

2. Attach bitter end of 140-inch nylon cord (with attached survival items) to the left loop on equipment container with a bowline knot (approximately 2-inch loop) and an overhand knot. Knots shall be positioned snugly against each other.



Step 2 - Para 5-26

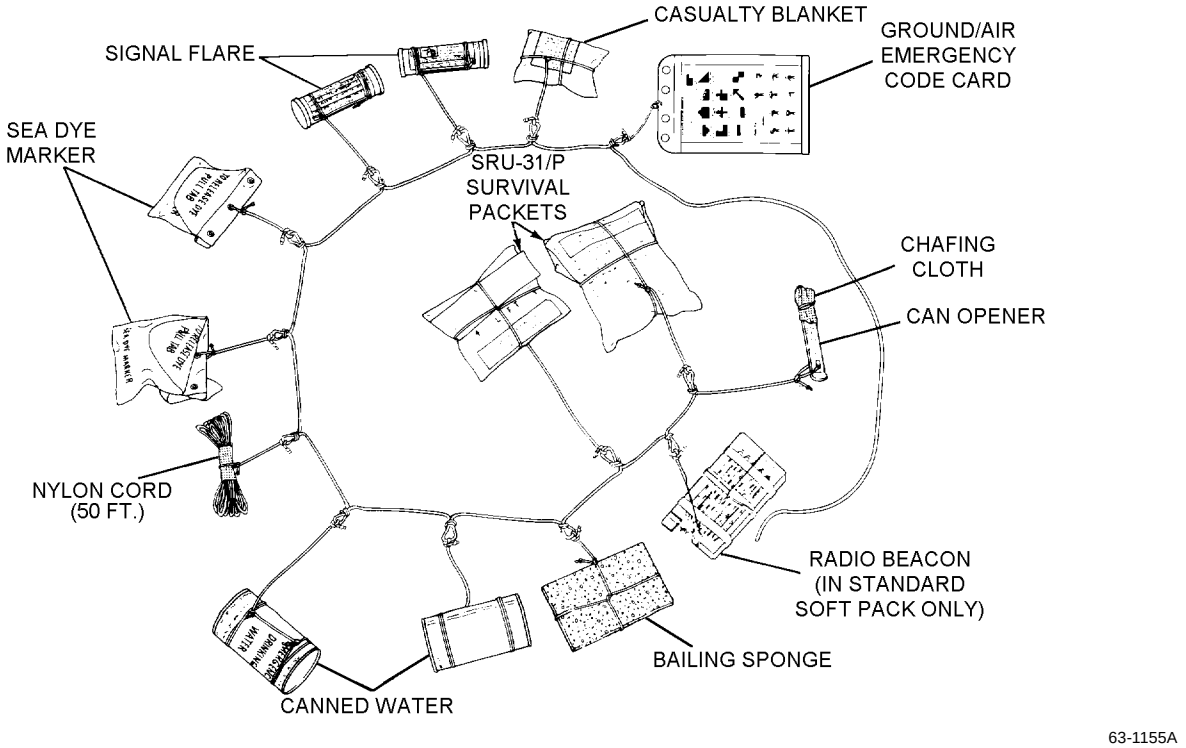


Figure 5-9. Binding Survival Items

3. Open equipment container by pulling left slide fastener to the right.

NOTE

Survival items shall be stowed in a neat and orderly fashion and the items shall be arranged to obtain the flattest possible pack. The can opener shall be positioned in such a way as to ensure that it cannot damage other survival items.

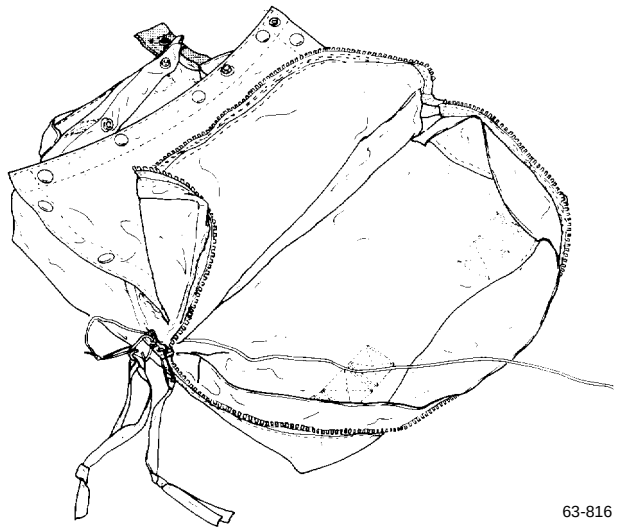
4. Stow survival items within the height, length and width of the equipment container.

5. Close equipment container.

5-27. SURVIVAL EQUIPMENT PACKING (STANDARD AND SPECIAL SOFT PACKS). To pack survival equipment in the Standard or Special Soft Pack, proceed as follows:

1. Place Combination Carrying Case and Equipment Container on table with slide fastener facing packer and the word EQUIPMENT facing up.

2. Open equipment section of container by opening right slide fastener to the left. Route bitter end of 140-inch nylon cord (with attached survival items) through opening at end of slide fastener chain, and secure to left slide fastener tab with a bowline knot (approximately 2-inch loop) and an overhand knot. Knots shall be positioned snugly against each other.



Step 2 - Para 5-27

NOTE

Survival items shall be stowed in a neat and orderly fashion and the items shall be arranged to obtain the flattest possible pack. The can opener shall be positioned in such a way as to ensure that it cannot damage other survival items.

3. Stow survival items within the height, length and width of the equipment section of the Combination Carrying Case and Equipment Container.

4. Close equipment section slide fastener.

5-28. LIFERAFT PREPARATION, FOLDING, RIGGING, AND PACKING (STANDARD, SPECIAL AND HIGH SPEED SOFT PACKS). To prepare, fold, rig, and pack the LR-1 liferaft in the Standard, Special or High Speed Soft Pack, proceed as follows:

1. Lay liferaft assembly flat with inside facing upward (step A, figure 5-10).

2. Ensure all trapped air is expelled from liferaft, and oral inflation valve is locked and stowed in pocket prior to folding.

3. Lightly dust entire liferaft assembly with talc (MIL-T-50036A).

4. Secure sea anchor line in 3-inch bights, fold and stow in pocket (step B, figure 5-10).

5. Roll and secure weathershield (step C, figure 5-10.

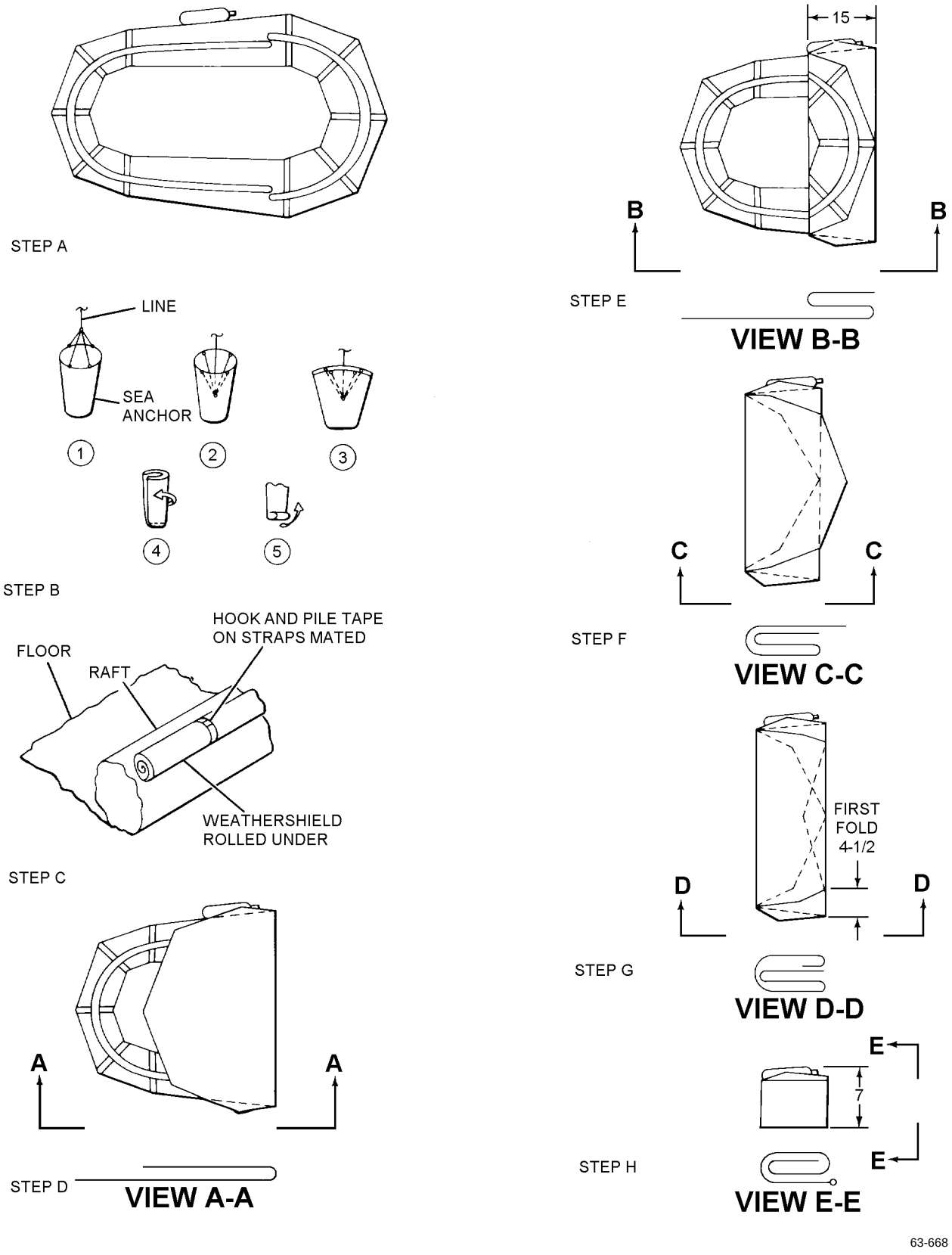
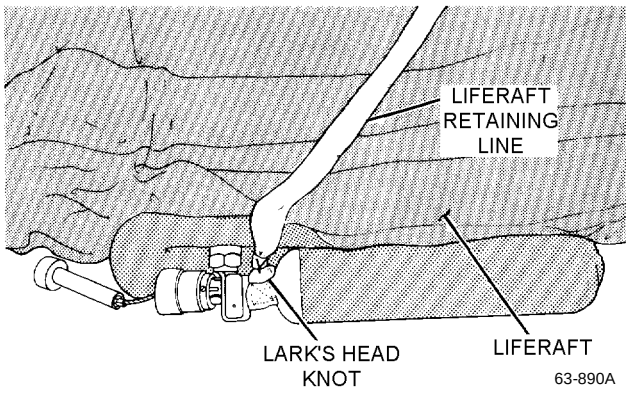


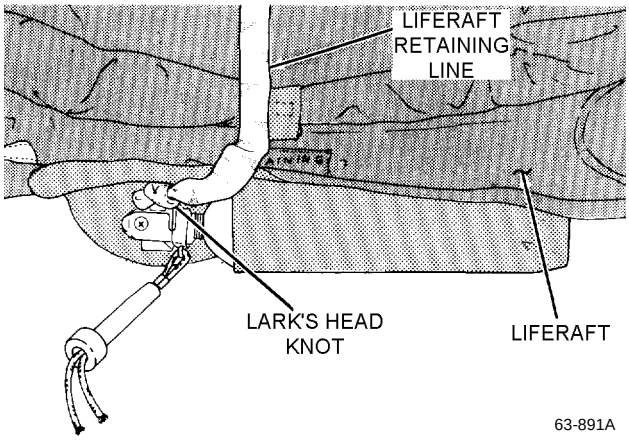
Figure 5-10. Folding Liferaft for Standard, Special and High Speed Soft Pack

6. (LR-1 with MIL-V-81722, FLU-6/P Inflation Valve) Pass loop end of liferaft retaining line around inflation valve at cylinder neck. Pass end of line with snaphook through loop and pull line tight, forming a lark's head knot. Tack lark's head knot with two turns of waxed nylon 6-cord, single. Tie ends with surgeon's knot followed by square knot.



Step 6 - Para 5-28

7. (LR-1 with MIL-V-25492, Type 2, Design II Inflation Valve) Pass loop end of liferaft retaining line around coupling nut between liferaft and inflation assembly. Pass end of line with snaphook through loop and pull line tight, forming a lark's head knot. Tack lark's head knot with two turns of waxed nylon 6-cord, single. Tie ends with surgeon's knot followed by square knot.



Step 7 - Para 5-28

8. Fold liferaft.

a. Fold bow of liferaft over at a point in line with inflation valve of CO_2 cylinder (step D, figure 5-10).

b. Fold bow portion of liferaft back, forming an accordion fold approximately 15 inches in width (step E, figure 5-10).

c. Fold stern of liferaft over on top of previous folds (step F, figure 5-10).

d. Tuck stern of liferaft under in line with first fold (step G, figure 5-10).

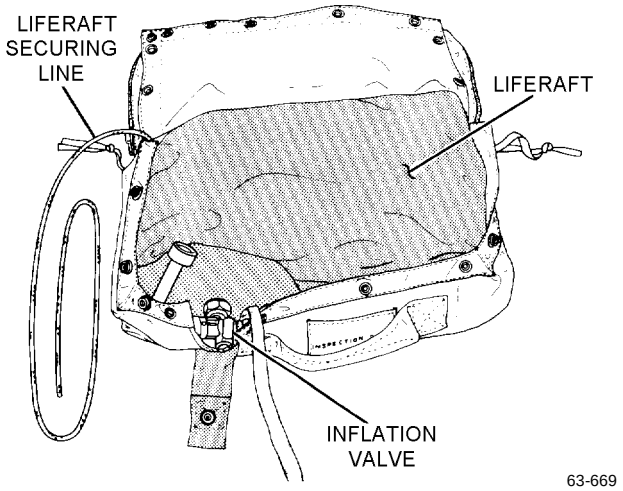
e. Starting at end opposite CO_2 cylinder, form a fold approximately 4 1/2 inches wide, and continue folding liferaft towards CO_2 cylinder (steps G and H, figure 5-10).

NOTE

Steps 9 through 16 apply to Standard Soft Pack and Special Soft Pack. Steps 17 through 29 apply to High Speed Soft Pack.

9. Place Combination Carrying Case and Equipment Container on table with liferaft compartment open and facing packer.

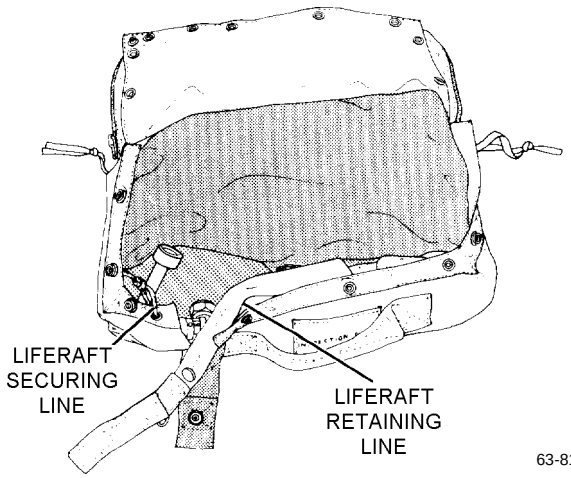
10. Place liferaft into raft compartment so that CO_2 cylinder is forward and inflation valve faces left side of container.



Step 10 - Para 5-28

11. Accordion fold liferaft retaining line across top of cylinder. Snaphook shall exit at inflation valve side of container.

12. Tie liferaft securing line to eyelet on lower flap of Combination Carrying Case and Equipment Container. Secure with a bowline knot followed by an overhand knot.



Step 12 - Para 5-28

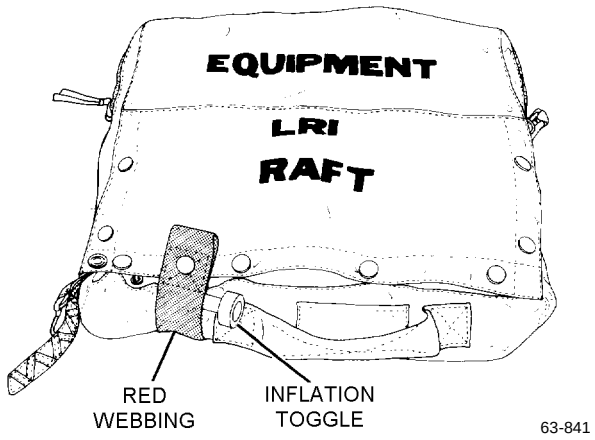
WARNING

Ensure that liferaft retaining line is not wrapped around or entangled with liferaft inflation pull toggle.

When routing the liferaft retaining line, ensure that it will not entangle with liferaft inflation pull toggle when being extracted from the soft pack.

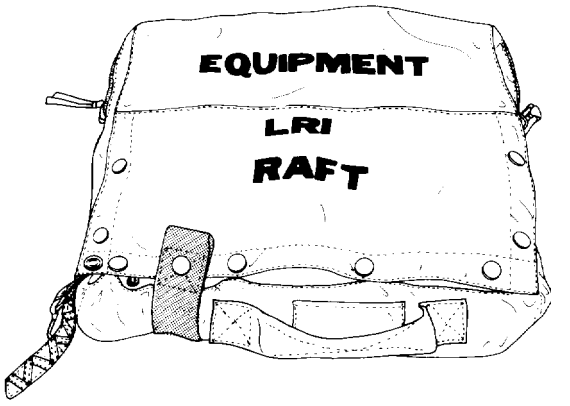
(LR-1 with MIL-V-81722, FLU-6/P Inflation Valve) Ensure liferaft inflation toggle is in container under CO_2 cylinder.

13. (LR-1 with MIL-V-25492, Type 2, Design II Inflation Valve) Snap liferaft compartment of Combination Carrying Case and Equipment Container closed. Inflation toggle shall protrude through opening in case at red webbing. Secure snap fastener on liferaft retaining line to mating fastener on container.



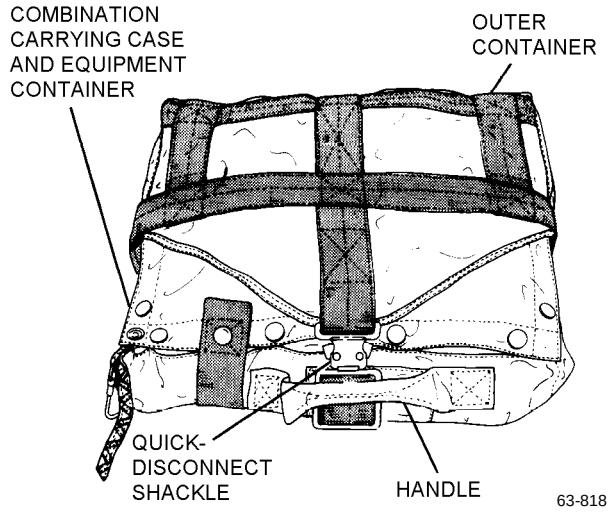
Step 13 - Para 5-28

14. (LR-1 with MIL-V-81722, FLU-6/P Inflation Valve) Stow liferaft inflation toggle in container under CO_2 cylinder. Snap liferaft compartment of Combination Carrying and Equipment Container closed. Secure snap fastener on liferaft retaining line to mating fastener on container.



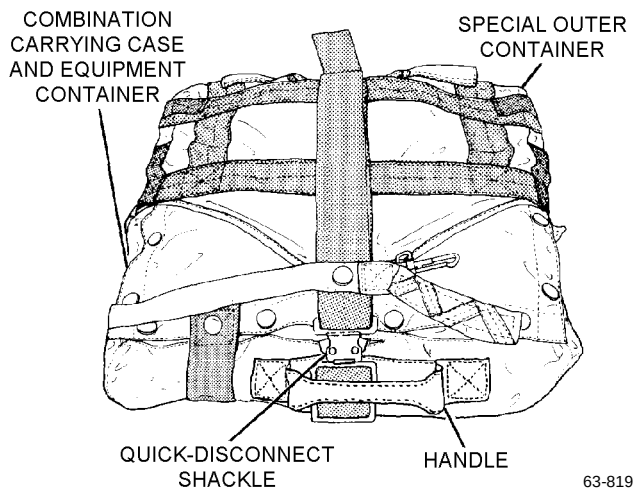
Step 14 - Para 5-28

15. (Standard Soft Pack) If Standard Soft Pack Outer Container is required, insert Combination Carrying Case and Equipment Container into outer container and secure quick-disconnect shackle. Shackle shall be under handle.



Step 15 - Para 5-28

16. (Special Soft Pack) Insert Combination Carrying Case and Equipment Container into Special Outer Container, routing beacon actuating lanyard through grommet in Special Outer Container. Leave no slack in actuating lanyard. Secure quick-disconnect shackle. Shackle shall be under handle.

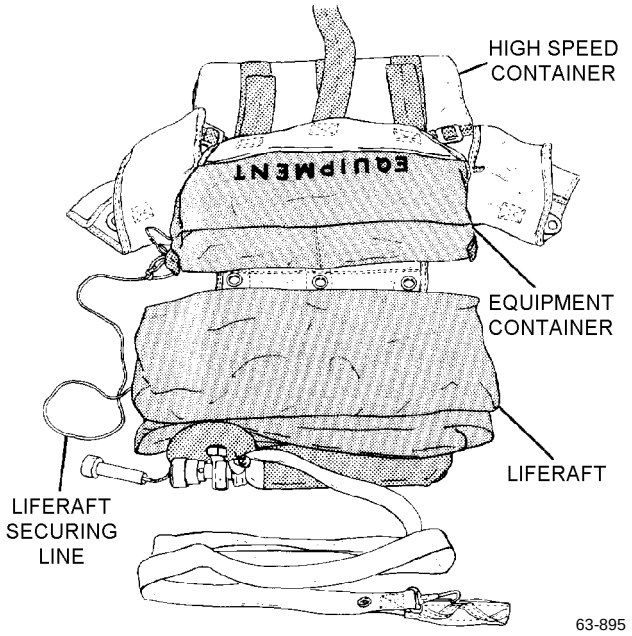


Step 16 - Para 5-28

NOTE

Refer to NAVAIR 13-1-6.2 for incorporation of Standard Soft Pack with specific parachute assemblies.

17. (High Speed Soft Pack) Tie 5-foot liferaft securing line to loop on equipment container using bowline knot.



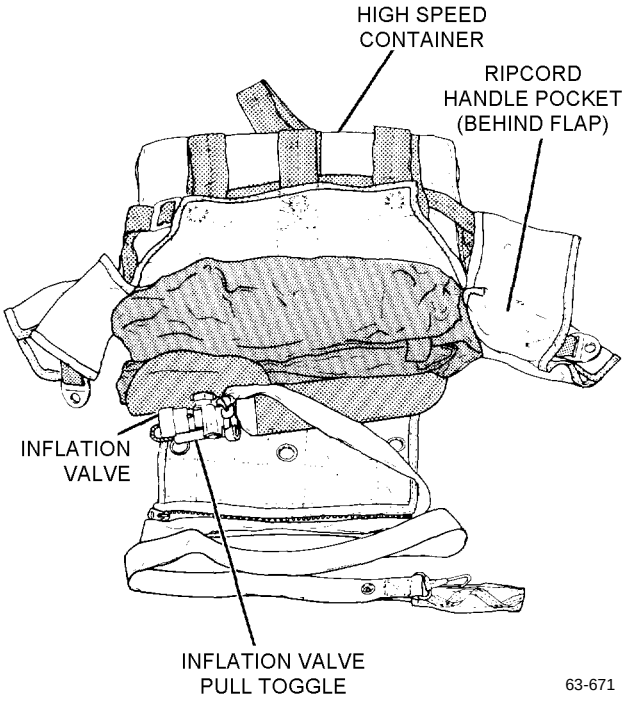
Step 17 - Para 5-28

18. Place equipment container into High Speed Container with slide fastener facing away from raft stowage area.

CAUTION

Correctly position inflation valve pull toggle under carbon dioxide cylinder to avoid inadvertent actuation during packing operation.

19. Position inflation valve pull toggle under carbon dioxide cylinder and place raft into High Speed Container so that carbon dioxide cylinder is toward opening and inflation valve is at end opposite ripcord handle pocket.



Step 19 - Para 5-28

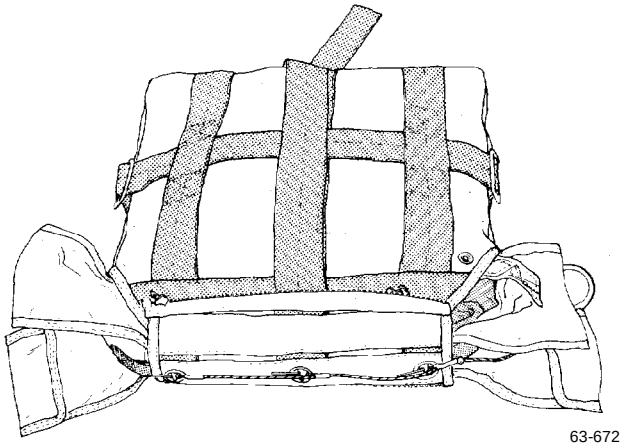
20. Accordion-fold liferaft retaining line across top of cylinder. Attach snap fastener to mating fastener on flap at ripcord end of outer container.

21. Pull locking cone side flap over raft. Pull grommet side flap over locking cone flap.

22. Place tab on end flap with ripcord handle pocket between two side flaps and over locking cone. Place grommet over cone and insert ripcord pin (P/N 60A116C6-1) nearest handle.

23. Insert center ripcord pin in center locking cone.

24. Secure last locking cone in same manner as step 22.



Step 24 - Para 5-28

CAUTION

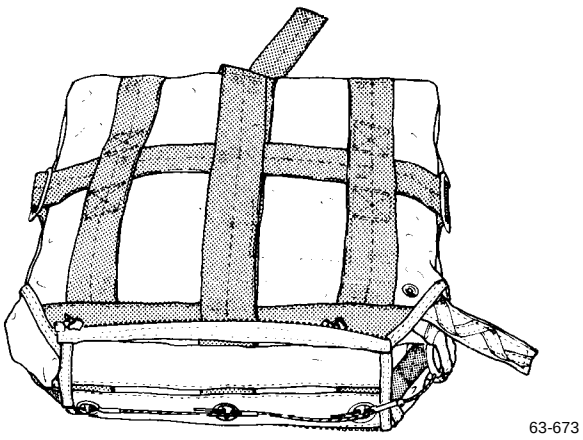
Ensure fid does not catch pull toggle or pull toggle cable when tucking end flaps into container. Inadvertent actuation may occur.

25. Using a fid, tuck end flaps into container.

CAUTION

Do not kink ripcord cable.

26. Insert ripcord handle into pocket and press any excess cable into pocket.

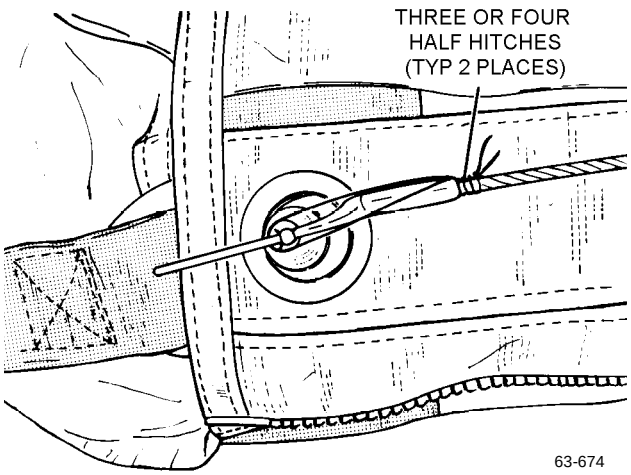


Step 26 - Para 5-28

NOTE

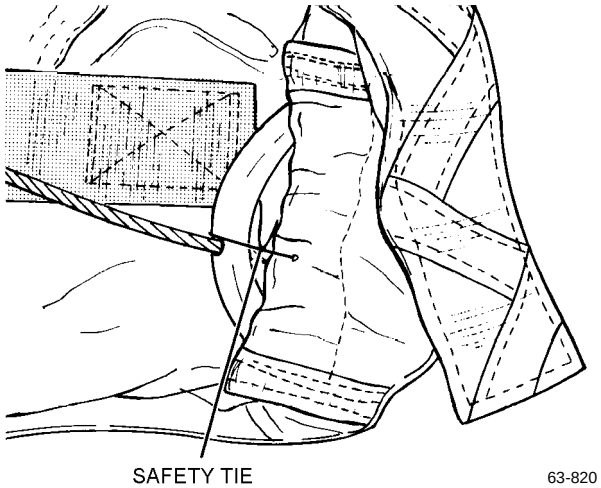
Tab on liferaft retaining line shall be only portion of line visible.

27. Safety-tie first and third ripcord pins using one turn of unwaxed size E nylon thread (V-T-295), single. Tie with three or four half hitches.



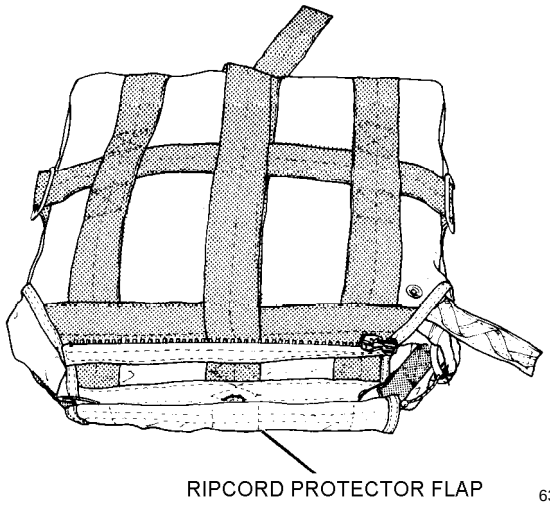
Step 27 - Para 5-28

28. Safety-tie ripcord handle in pocket using one turn of unwaxed size E nylon thread (V-T-295), single. Apply tacking around ripcord handle at cable and secure at top of ripcord pocket with surgeon's knot followed by square knot.



Step 28 - Para 5-28

29. Close ripcord protector flap.



Step 29 - Para 5-28

30. Make necessary entries on appropriate form in accordance with OPNAVINST 4790.2 Series.

5-29. LIFERAFT PREPARATION, FOLDING, RIGGING AND PACKING (MODIFIED HIGH SPEED SOFT PACK). To prepare, fold, rig, and pack the LR-1 liferaft in the Modified High Speed Soft Pack, proceed as follows:

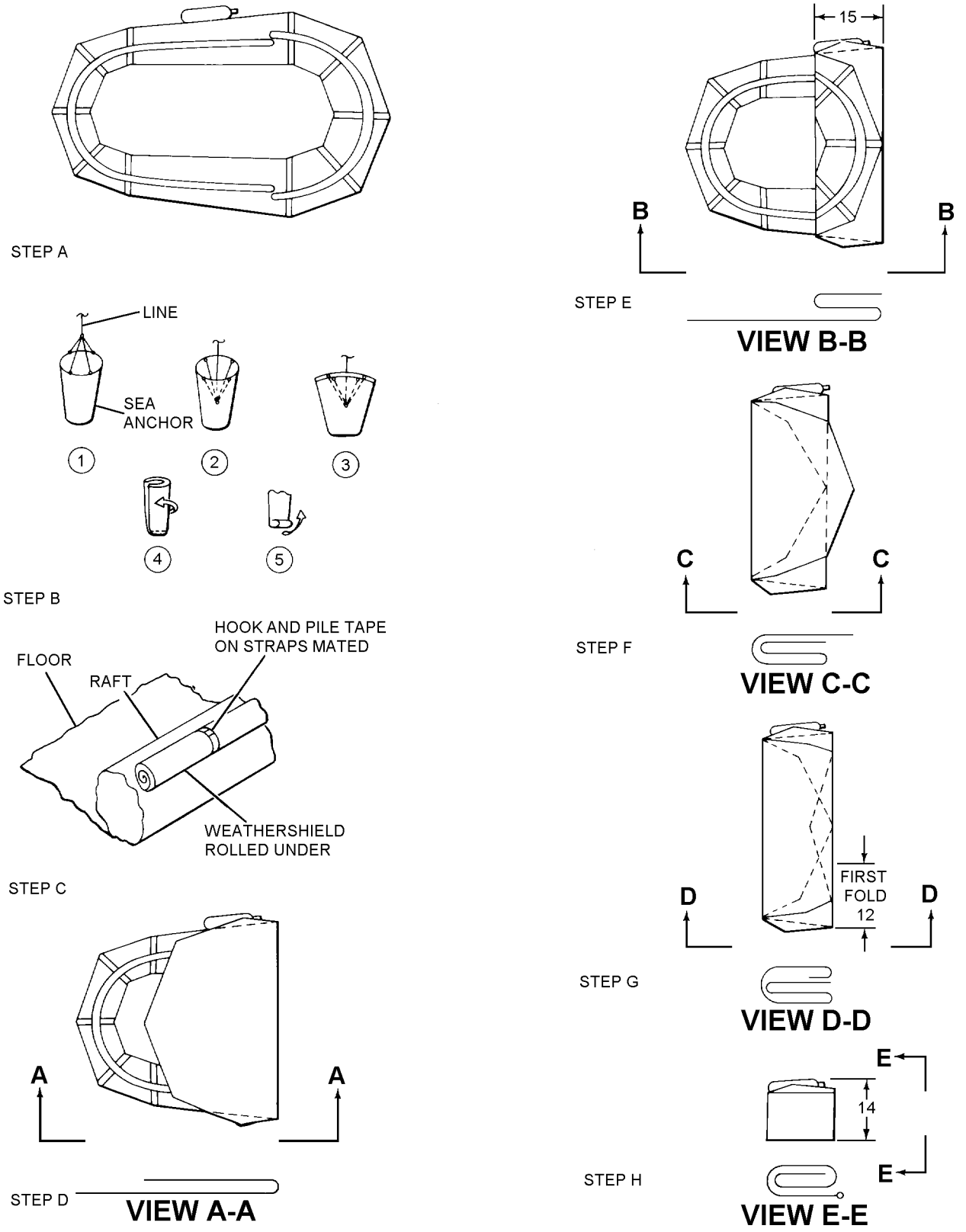
1. Lay liferaft assembly flat with inside facing upward (step A, figure 5-11).

2. Ensure all trapped air is expelled from liferaft and oral inflation valve is locked and stowed in pocket prior to folding.

3. Lightly dust entire liferaft assembly with talc (MIL-T-50036A).

4. Secure sea anchor line in 3-inch bights, fold and stow in pocket (step B figure 5-11).

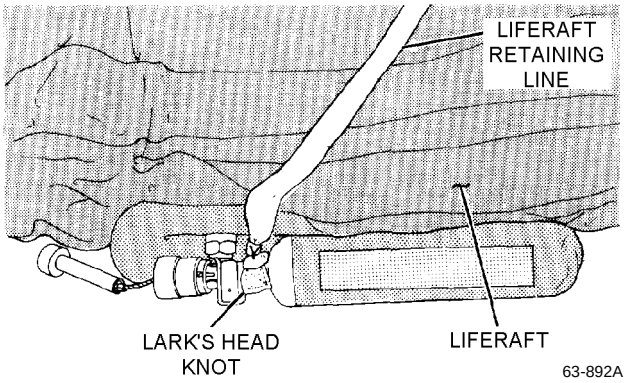
5. Roll and secure weathershield (step C, figure 5-11).



63-675

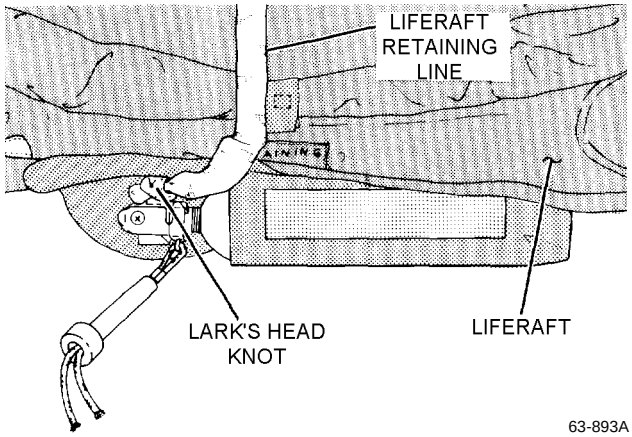
Figure 5-11. Folding Liferaft for Modified High Speed Soft Pack

6. (LR-1 with MIL-V-81722, FLU-6/P Inflation Valve) Pass loop end of liferaft retaining line around inflation valve at cylinder neck. Pass end of line with snaphook through loop and pull line tight, forming a lark's head knot. Tack lark's head knot with two turns of waxed nylon 6-cord, single. Tie ends with a surgeon's knot followed by a square knot.



Step 6 - Para 5-29

7. (LR-1 with MIL-V-25492, Type II, Design II Inflation Valve) Pass loop end of liferaft retaining line around coupling nut between raft and inflation assembly. Pass end of line with snaphook through loop and pull line tight, forming lark's head knot. Tack lark's head knot with two turns of waxed nylon 6- cord single. Tie ends with surgeon's knot followed by square knot.



Step 7 - Para 5-29

8. Fold liferaft.

a. Fold bow of raft over at point in line with inflation valve of carbon dioxide cylinder (step D, figure 5-11).

b. Fold bow portion of raft back, forming accordion fold approximately 15 inches in width (step E, figure 5-11).

c. Fold stern of raft over on top of previous folds (step F, figure 5-11).

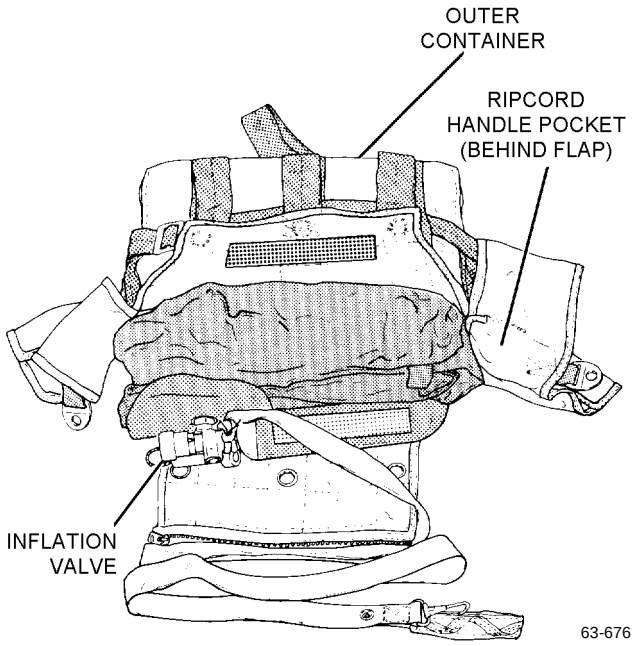
d. Tuck stern of raft under in line with first fold (step G, figure 5-11).

e. Starting at end opposite carbon dioxide cylinder, form fold approximately 12 inches wide, and continue folding raft towards carbon dioxide cylinder (steps G and H, figure 5-11).

CAUTION

Correctly position inflation valve pull toggle under carbon dioxide cylinder to avoid inadvertent actuation during packing operation.

9. Position inflation valve pull toggle under carbon dioxide cylinder and place raft into outer container so that carbon dioxide cylinder is toward opening and inflation valve is at end opposite ripcord handle pocket.



Step 9 - Para 5-29

10. Accordion-fold liferaft retaining line across top of cylinder. Attach snap fastener to mating fastener on flap at ripcord end of outer container.

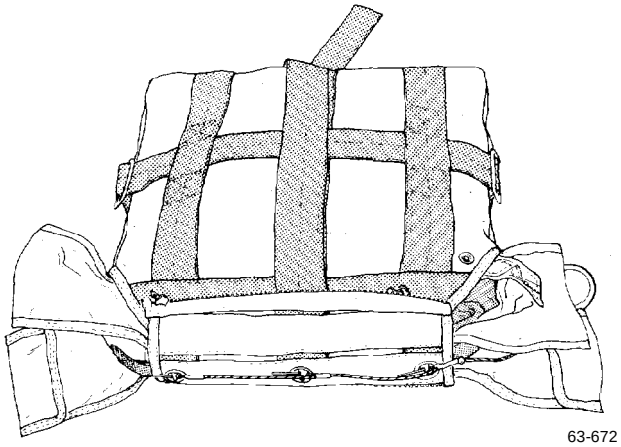
11. Mate hook tape on cylinder sling with pile tape on locking cone flap.

12. Pull grommet side flap over locking cone flap.

13. Place tab on end flap with ripcord handle pocket between two side flaps and over locking cone. Place grommet over cone and insert ripcord pin (P/N 60A116C6-1) nearest handle.

14. Insert center ripcord pin in center locking cone.

15. Secure last locking cone in same manner as step 13.



Step 15 - Para 5-29

CAUTION

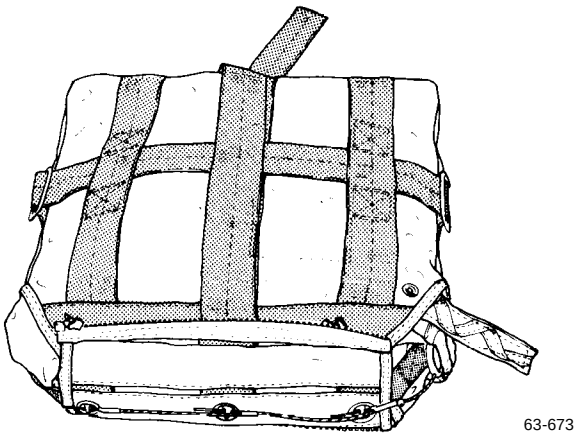
Ensure fid does not catch pull toggle or pull toggle cable when tucking end flaps into container. Inadvertent actuation may occur.

16. Using fid, tuck end flaps into container.

CAUTION

Do not kink ripcord cable.

17. Insert ripcord handle into pocket and press any excess cable into pocket.

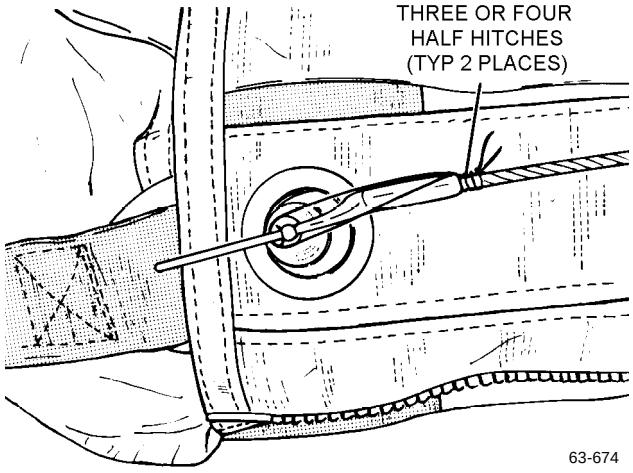


Step 17 - Para 5-29

NOTE

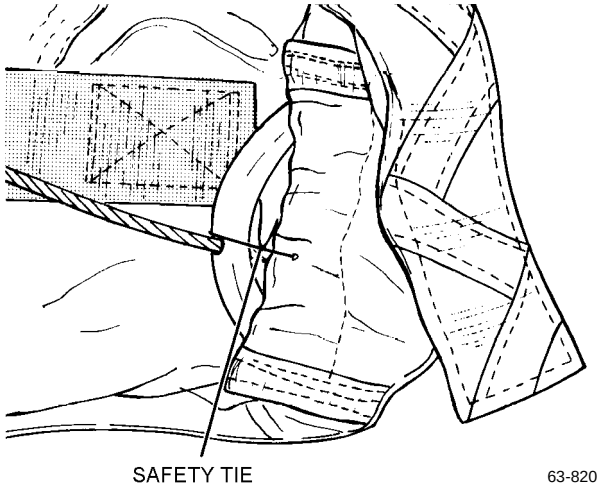
Tab on liferaft retaining line shall be only portion of line visible.

18. Safety-tie first and third ripcord pins using one turn of unwaxed size E nylon thread (V-T-295), single. Tie with three or four half hitches.



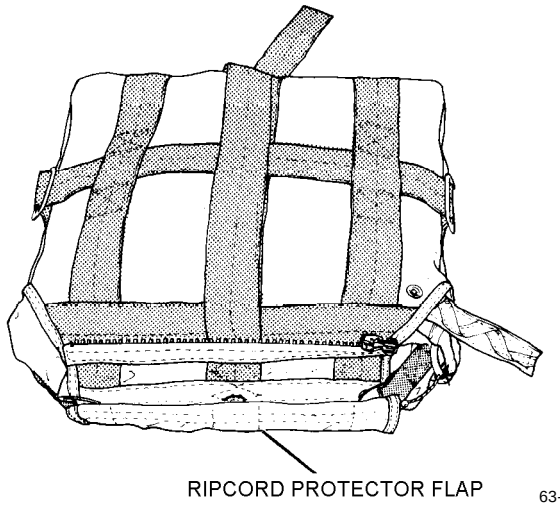
Step 18 - Para 5-29

19. Safety-tie ripcord handle in pocket using one turn of unwaxed size E nylon thread (V-T-295), single. Apply tacking around ripcord handle at cable and secure at top of ripcord pocket with surgeon's knot followed by square knot.



Step 19 - Para 5-29

20. Close ripcord protector flap.



Step 20 - Para 5-29

21. Make necessary entries on appropriate form in accordance with OPNAVINST 4790.2 Series.

5-30. COCKPIT ROUTING AND INSTALLATION OF THE EMERGENCY RADIO BEACON LANYARD (DOUGLAS SEAT PAN). To rig emergency radio beacon for automatic actuation, proceed as follows:

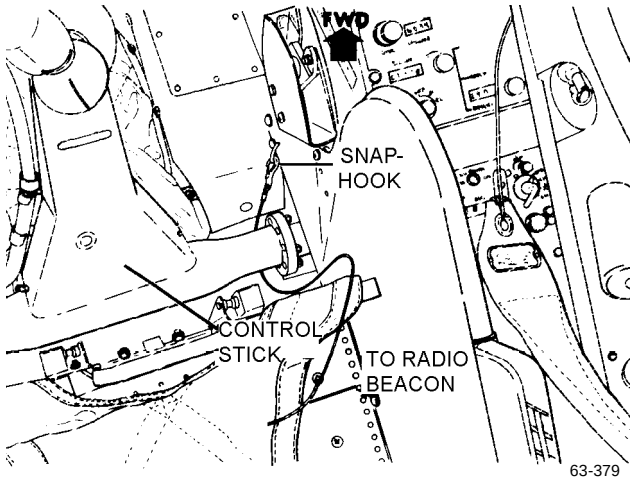
1. Remove existing screw in aircraft cockpit located on starboard side of control stick.

2. Remove D-ring plate from kit V66-5ACC-161 (ACC 161, Part 4).

3. Insert screw through hole in D-ring plate and secure to aircraft cockpit deck on starboard side of control stick.

4. Install seat pan in ejection seat.

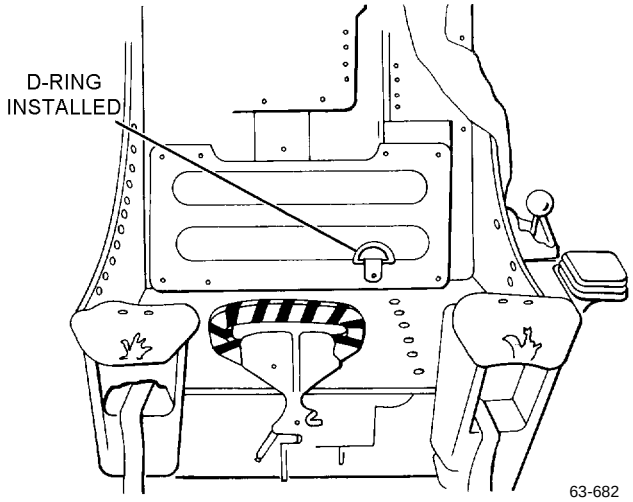
5. Pass snaphook on actuating lanyard under aircraft control stick and snap to D-ring on cockpit deck.



Step 5 - Para 5-30

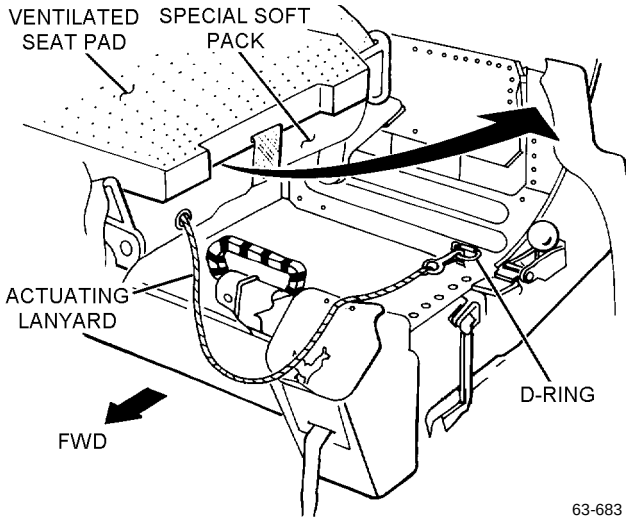
5-31. COCKPIT ROUTING AND INSTALLATION OF EMERGENCY RADIO BEACON LANYARD (SPECIAL SOFT PACK). To rig emergency radio beacon for automatic actuation, proceed as follows:

1. Remove inboard screw on port side from back of seat bucket near bottom. Enlarge hole in plate of D-ring to accommodate screw, and replace screw with D-ring attached.



Step 1 - Para 5-31

2. Attach snaphook to D-ring.



Step 2 - Para 5-31

Section 5-4. Turnaround/Daily/Preflight/Postflight/Transfer/ Special/Conditional Inspection

5-32. GENERAL.

5-33. The Turnaround/Daily/Preflight/Postflight or Transfer Inspections consist of visual inspection performed in conjunction with the aircraft inspection requirements for the aircraft in which the seat pan/soft pack is installed. These inspections shall be performed by line personnel (plane captain) or delegated aircrewmembers who have been instructed and found qualified by the Aviator's Equipment Branch.

5-34. Conditional Inspection is an unscheduled inspection required as the result of a specific situation or set of conditions, e.g., hard-landing inspections or any inspection directed by higher authority that is not ordered in a technical directive.

5-35. The Special (7/14 day, etc.) Inspection shall be performed on inservice survival kits installed in aircraft and in ready room issue. This inspection shall be performed at the Organizational Level of maintenance by personnel assigned to the Aviator's Equipment Branch. Make necessary entries on appropriate form in accordance with OPNAVINST 4790.2 Series.

5-36. TURNAROUND/DAILY/PREFLIGHT/POSTFLIGHT/TRANSFER AND SPECIAL INSPECTION PROCEDURES. To perform subject inspections, visually inspect the following:

1. Cushion for secure attachment, rips, tears, and loose or frayed stitching.

2. Oxygen gage for FULL indication.

3. Manual oxygen release for secure attachment.

4. Quick-disconnect for secure attachment.

5. Tag assembly, installed by manufacturer for shipping purposes, has been removed and discarded prior to placing emergency oxygen cylinder assembly in service.

6. Condition of oxygen hose. If repair procedure has been performed on oxygen hose assembly, check external wiring for secure attachment.

7. Beacon actuator indicator for bent shaft, hairpin cotter for elongation, corrosion, and proper mousing.

8. Secure attachment of beacon automatic actuation lanyard.

9. Soft pack for attachment to seat pan.

10. Harness assemblies for loose or frayed stitching, webbing, and cracked or broken hardware.

11. Soft pack fabric for cuts, tears, deterioration, and, abrasion.

12. Soft pack seams for proper adhesion or stitching.

13. Soft pack straps and handles for security and wear.

14. Any other parts for wear, damage, and security.

15. Container and/or case for stains, dirt, and general condition.

5-37. If discrepancies are found or suspected, Maintenance Control shall be notified.

5-38. Seat pans/soft pack assemblies which do not pass inspection and cannot be repaired in the aircraft shall be removed in accordance with applicable aircraft manual and replaced with Ready For Issue (RFI) seat pan/soft pack assemblies. Non-RFI seat pan/soft pack assemblies shall be forwarded to the nearest maintenance activity having repair capability.

Section 5-5. Acceptance/Phased/SDLM/PDM Inspection

5-39. GENERAL.

5-40. An acceptance inspection shall be performed on a survival kit when it is placed into service or at the time a reporting custodian accepts a newly assigned airfcraft from any source and on return of an aircraft from SDLM/PDM or other major D-level rework. The Phased/SDLM/PDM inspection cycle of the survival kit shall be 448 days. In no case, however, shall the phased interval exceed 448 days. The battery test inspection cycle for the AN/URT-33A radio beacon is dependent on the type of battery installed. Refer to NAVAIR 16-30URT33-1 for battery test inspection cycles and requirements. For acceptance inspection purposes, verification of pyrotechnics and configuration is accomplished by visual record examination only. Disassembly beyond the daily inspection requirements of applicable publications is not required. Activities may elect to increase the depth of the inspection if equipment condition, visual external inspection, or record examination indicates such action is warranted.

5-41. VISUAL INSPECTION. This inspection shall be performed prior to the leak check of the seat pan/soft pack.

1. Visually check seat pan for the following:

a. Cushion for rips and tears.

b. Slide fastener for ease of operation and corrosion.

c. Manual oxygen release for operation and corrosion.

d. Tag assembly, installed by manufacturer for shipping purposes, has been removed and discarded prior to placing emergency oxygen cylinder assembly in service.

e. Quick-disconnect for security of attachment to cable, and cable for frayed or broken strands.

f. Snap fasteners for security and corrosion.

g. Swaged balls on cable assemblies for security of attachment.

2. Visually check soft pack survival kit for the following:

a. Fabric for cuts, tears, deterioration, and abrasion.

b. Seams for proper adhesion or stitching.

c. Straps and handles for security and wear.

d. Any other parts for wear, damage, and security.

e. All hardware for security of attachment, corrosion, damage, wear and, if applicable, ease of operation.

f. Container/Case for stains, dirt, proper markings, and general condition.

g. Inspect oxygen hose for cracks or deterioration per Chapter 4 of this manual and replace as required.

h. Inspect oxygen gage for full indication.

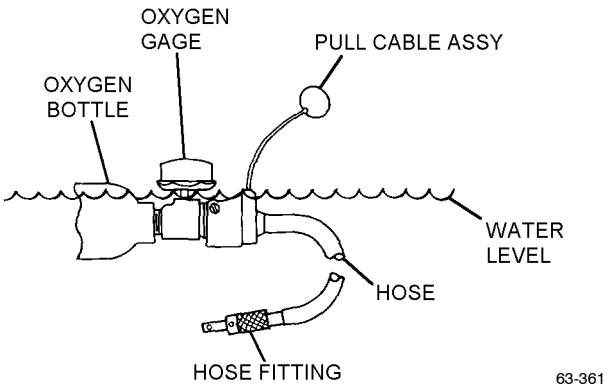
5-42. (SP-1A) LEAK CHECK. This check shall be performed anytime a kit is placed in service, after any adjustment procedures, or when equipment condition, visual external inspection, or record examination indicates such action is warranted to determine the condition of the kit. To perform a leak check proceed as follows:

CAUTION

Do not submerge oxygen gage or pull cable assembly.

Discontinue leak test if seat pan fails to pass any steps of test procedures. Repair malfunction before continuing procedures or damage to seat pan may result. After repair, the entire test procedure shall be performed.

1. Charge oxygen cylinder to 1800 to 2000 psi and submerge in water for at least 5 minutes to ensure no leakage. Any release of bubbles from hose or valve after 1 minute is cause for corrective maintenance.



Step 1 - Para 5-42

2. Dry assembly with dry, clean compressed air.

5-43. (DOUGLAS SEAT PAN) FUNCTIONAL CHECK. The functional check shall be performed anytime a kit is placed in service, after any adjustment procedures, or when equipment condition, visual external inspection, or record examination indicates such action is warranted to determine the condition of the kit. To perform a functional check, proceed as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Leak Detection Compound, Type I	MIL-L-25567
As Required	Wire, Safety or Lock, Type S	QQ-W-343
As Required	Wire, Safety or Lock	MS20995N32

Support Equipment Required

Quantity	Description	Reference Number
1	Test Stand	59A120 (CAGE 02551) -or- 31TB1995-1 (CAGE 99251)
1	Dial Push/Pull Gage, 0 to 50 Pounds	DPP-50 (CAGE 11710)

WARNING

Before use, inspect leak detection compound. Compound which is not clear and free from suspended material/sediment is considered contaminated and shall be disposed of. Compound exhibiting peculiar odors, such as acetone or alcohol, is considered contaminated and shall be disposed of.

CAUTION

Discontinue functional test if seat pan fails to pass any steps of test procedures. Repair malfunction before continuing procedures or damage to seat pan may result. After repair, the entire test procedure shall be performed.

NOTE

Performance of test stand is dependent upon skill of operator. It is imperative that operator be thoroughly familiar with instruments, controls, and connections that comprise systems incorporated in test stand. See NAVAIR 17-15BC-20 and NAVAIR 13-1-6.4-4 to familiarize yourself with 59A120 or 31TB1995 series liquid oxygen converter test stands.

Original equipment relief valves used on earlier models of Douglas Seat Pan Assembly were designed to operate in 100 to 130 psi range and reseat with no leakage at 95 psi minimum. Operation of relief valves in this pressure range is not considered unsafe for flight and is acceptable. Future procurement of relief valves for Seat Pan Assemblies will be in accordance with MIL-V-9050, Type V with operating range of 120 to 140 psi and will replace 100 to 130 psi relief valves on attrition basis.

Emergency oxygen cylinder pressures used in this functional check are derived under ideal shop conditions of 70°F (21°C). Variances in ambient air temperatures directly affect charging pressures. Refer to table 5-5 for details.

Ensure that emergency oxygen cylinder is filled to 1800 to 2000 psi with oxygen.

1. Remove bell jar and connect oxygen outlet hose of seat pan to fitting (C-1) and ensure that valve (V-2) is open and all other test stand valves are closed (figure 5-12).

2. Attach push/pull gage to automatic emergency oxygen release lanyard.

3. Measure force required to disengage automatic oxygen release. Force required shall be 10 to 30 pounds, and emergency oxygen system shall actuate and indicate 45 to 80 psi on gage (PG-1) on test stand.

WARNING

Ensure yoke bottoms against spacer and not plunger stem.

4. Reinstall yoke between screw assembly collar and spacer. Safety-wire in accordance with paragraph 5-63.

5. Bleed system by opening valve (V-5). All pressure is bled when gages (PG-1) and (PG-4) indicate zero pressure.

6. Close valve (V-5).

7. Attach push/pull gage to manual oxygen release handle.

8. Measure force required to disengage manual oxygen release. Force required shall be 10 to 30 pounds, and emergency oxygen system shall actuate and indicate 45 to 80 psi on gage (PG-1) on test stand.

WARNING

Ensure yoke bottoms against spacer and not plunger stem.

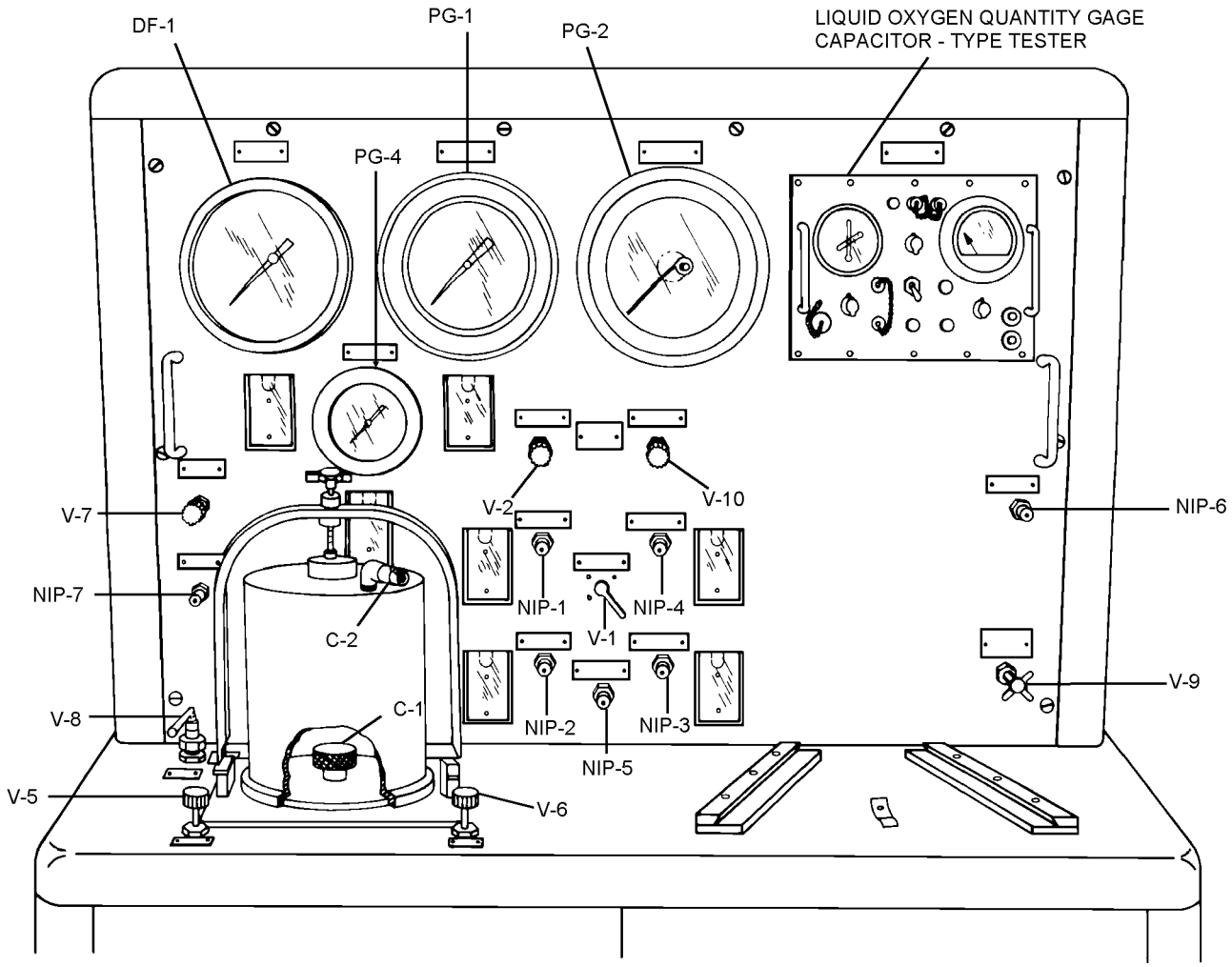
9. Reinstall yoke between screw assembly collar and spacer. Safety-wire in accordance with paragraph 5-63.

10. Bleed system by opening valve (V-5). All pressure is bled when gages (PG-1) and (PG-4) indicate zero pressure.

11. Close valve (V-5).

12. Turn on oxygen supply cylinder to test stand.

13. Slowly open valve (V-6) on test stand and adjust pressure on gage (PG-1) to 90 psi.



C-1	BELL JAR BOTTOM COUPLING	PG-2	FLOWMETER INDICATOR GAGE
C-2	BELL JAR TOP COUPLING	PG-4	0 – 15 PSIG LOW PRESSURE TEST GAGE
DF-1	0 – 100" H_2O DIFFERENTIAL PRESSURE GAGE	V-1	FLOWMETER SELECTOR GAGE
NIP-1	0 – 0.25 LPM FLOWMETER CONNECTION	V-2	TEST PRESSURE GAGE TO BELL JAR VALVE
NIP-2	0 – 1 LPM FLOWMETER CONNECTION	V-5	SYSTEM BLEED VALVE
NIP-3	0 – 50 LPM FLOWMETER CONNECTION	V-6	OXYGEN SUPPLY VALVE
NIP-4	0 – 150 LPM FLOWMETER CONNECTION	V-7	DIFFERENTIAL PRESSURE BLEED VALVE
NIP-5	CONVERTER SUPPLY OUTLET CONNECTION	V-8	DIFFERENTIAL PRESSURE SHUT-OFF VALVE
NIP-6	SUPPLY TO CONVERTER CONNECTION	V-9	CONVERTER SUPPLY FLOW CONTROL VALVE
NIP-7	DIFFERENTIAL PRESSURE GAGE CONNECTION	V-10	TEST PRESSURE GAGE BUILD-UP AND FLOW VALVE
PG-1	0 – 160 PSIG TEST PRESSURE GAGE		

63-578

Figure 5-12. Test Stand Model 59A120

14. Attach pull scale to oxygen system automatic release fitting.

15. Measure force required to extract the release fitting. Force required shall be 10 to 30 pounds.

NOTE

Any degree of leakage in the oxygen system is not acceptable.

16. Using leak detection compound, check all pressure lines and fittings on seat pan to ensure no leakage.

WARNING

Ensure yoke bottoms against spacer and not plunger stem.

17. Reinstall yoke between screw assembly collar and spacer. Safety-wire in accordance with paragraph 5-63.

CAUTION

Do not increase pressure above 150 psi.

18. Using valve (V-6), increase pressure until relief valve unseats.

NOTE

Unseating can be determined by listening and observing gage (PG-1) on test stand.

19. Repeat step 18 several times to establish a correct pressure. Relief valve shall unseat at 120 to 140 psi when pressure is increased, and reseat at 110 psi minimum when pressure is decreased. Once reset, relief valve shall be leak tight.

20. Check relief valve with leak detection compound to ensure no leakage.

NOTE

Pressure may be reduced below opening pressure of the relief valve by closing valve (V-6) and opening valve (V-5).

21. Close valve (V-6) and bleed oxygen pressure from system by opening valve (V-5). All pressure is bled when gages (PG-1) and (PG-4) indicate zero pressure.

22. Open valve (V-8).

23. Slowly close valve (V-5), while observing gage (DF-1).

NOTE

Observe gage (DF-1) for two minutes to ensure no leakage. Any pressure rise indicates leakage in the regulator valve seat and requires corrective maintenance.

24. Close valve (V-8), open valve (V-5), and disconnect seat pan from fitting (C-1).

25. Ensure all valves on the test stand are secured.

26. Connect oxygen outlet hose to fitting (NIP-6). Ensure that valve (V-10) is open and all other test stand valves are closed.

27. Connect test stand hose to fitting (NIP-5) and (NIP-4).

28. Move valve (V-1) to the (NIP-4) position.

29. Ensure that 1800 to 2000 psi is in the oxygen cylinder of the seat pan.

30. Pull manual oxygen release. Slowly open valve (V-9) to indicate 90 LPM on gage (PG-2). Oxygen pressure shall indicate 45 to 80 psi on gage (PG-1).

NOTE

When needle of cylinder pressure gage is between the E and F of REFILL, pressure is approximately 250 psi.

31. Observe emergency oxygen cylinder pressure gage and allow the system to decrease to 250 psi while maintaining 90 LPM and 45 to 80 psi pressure.

32. Close valve (V-9).

33. With zero flow indicated on gage (PG-2), pressure indicated on gage (PG-1) shall be 45 to 80 psi.

WARNING

Ensure yoke bottoms against spacer and not plunger stem.

34. Reinstall yoke between screw assembly collar and spacer. Safety-wire in accordance with paragraph 5-63.

35. Bleed oxygen pressure from system by opening valves (V-5) and (V-2). All pressure is bled when gages (PG-1) and (PG-4) indicate zero pressure.

36. Disconnect seat pan from test stand.

37. Secure test stand.

38. All areas, where leak detection compound was applied, shall be thoroughly cleaned using clean water. Dry with lint-free cloth, filtered low pressure compressed air or low pressure nitrogen.

39. Recharge emergency oxygen cylinder to 1800 to 2000 psi. Refer to paragraph 5-45 for charging procedures.

5-44. (SP-1A SEAT PAN) PURGING AND CHARGING EMERGENCY OXYGEN SYSTEM. To purge and charge the emergency oxygen cylinder proceed as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Aviator's Breathing Oxygen, Type I	MIL-O-27210
1	Break-off Nipple	MS21965-1
1	O-ring	186A102 (CAGE 20846)

WARNING

Servicing the emergency oxygen system is accomplished only after removal of the personnel parachute and seat pan from the aircraft.

NOTE

Index numbers in the following steps will pertain to figure 5-20 unless otherwise noted.

1. If the seat pan assembly has not been removed from the aircraft, remove the personnel parachute and seat pan in accordance with the applicable maintenance manual.

2. Remove the four screws (4) holding the pull cable assembly housing (2 or 3) in place. Slide the pull cable assembly along the hose so that it is well out of the way.

3. Unscrew the bushing (6) from the valve assembly (9) and withdraw hose, break-off nipple (7) and bushing from the valve body.

4. Remove the fractured break-off nipple from the hose, ensuring that both pieces are removed if the nipple has been separated at the fracture.

5. Push a new break-off nipple into the end of the hose until the hose end contacts the flanged face of the break-off nipple.

6. Grasp the hose just above the bushing and work the bushing down around the hose until the end of the bushing contacts the flanged face of the break-off nipple.

7. Invert the assembly and remove the oxygen flow controller (8).

8. Examine the interior of the valve assembly (9). If cleaning is necessary, blow out with aviator's breathing oxygen from supply cylinder.

9. Reinstall oxygen flow controller in valve assembly.

10. Reinstall the assembly of bushing, hose, and break-off nipple in valve assembly. Screw down until all parts are snugged together. Do not overtighten.

11. Connect emergency oxygen cylinder bushing assembly (12) to a supply cylinder of aviator's breathing oxygen by using a suitable charging adapter. Turn bushing (6) one-quarter turn counterclockwise.

12. Open oxygen supply cylinder valve slightly, allowing oxygen to flow into emergency oxygen cylinder until pressure gage (index 10) shows low pressure as indicated by pointer movement of not more than 1/8 inch. Close supply cylinder valve.

13. Loosen nut at inlet end of charging adapter, permitting oxygen to escape. Tighten nut.

14. Repeat steps 12 and 13 twice.

WARNING

Observe filling stages as rapid application of oxygen pressure creates heat which may result in fire or explosion.

Allow no less than 3 minutes for each filling stage, and 2-minute intervals for cooling between stages.

NOTE

If kit is to be stored, the emergency oxygen bottle shall be depleted or filled to 200 PSI (when needle on gage bisects E on refill). For shipping, fill or deplete to 25 PSI using the gage on the oxygen refill cylinder.

15. Charge emergency oxygen system in stages in accordance with table 5-4 until pressure gage indicates correct pressure for existing ambient temperature (table 5-5).

16. When charging is completed, tighten bushing (6) to 15 pound-feet.

17. Remove charging adapter from bushing assembly (12) and replace cap and seal assembly (11).

18. Perform leak check in accordance with paragraph 5-42.

19. If personnel parachute and seat pan assembly were removed in step 1, reinstall using applicable maintenance manual.

5-45. (DOUGLAS SEAT PAN) PURGING AND CHARGING EMERGENCY OXYGEN SYSTEM. To purge and charge the emergency oxygen system, proceed as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Leak Detection Compound, Type I	MIL-L-25567
As Required	Nitrogen, Type I, Class 1, Grade B	BB-N-411
As Required	Aviator's Breathing Oxygen, Type I	MIL-O-27210

Support Equipment Required

Quantity	Description	Reference Number
1	Oxygen Purging Electric Heater	C5378 (CAGE 96787) or equivalent
1	Shut-off Valve	—
1	Pressure Regulator	—
1	Adapter, Filling	21000T130-1 (CAGE 53655)

WARNING

Servicing of emergency oxygen system is accomplished only after removal of personnel parachute and survival kit from aircraft.

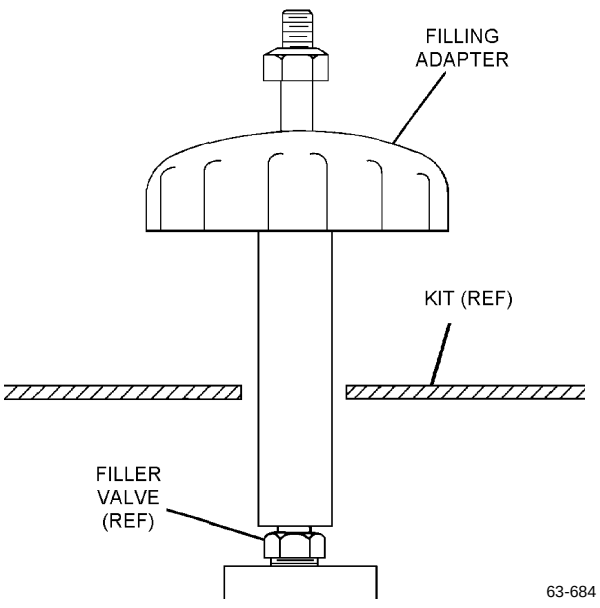
Before use, inspect leak detection compound. Compound which is not clear and free from suspended material/sediment is considered contaminated and shall be disposed of. Compound exhibiting peculiar odors, such as acetone or alcohol, is considered contaminated and shall be disposed of.

1. If seat pan assembly has not been removed from aircraft, remove personnel parachute and seat pan in accordance with applicable maintenance manual.

WARNING

If necessary to release pressure in oxygen bottle before purging/filling, pull emergency oxygen lanyard. This releases pressure through pressure regulator. DO NOT release pressure through filler valve or adapter. Releasing high-pressure oxygen through restriction of filler valve causes heat. Fire or explosion may result.

2. Remove oxygen filler valve cap and connect filling adapter to filler valve.



Step 2 - Para 5-45

NOTE

If the emergency oxygen system is contaminated or the cylinder has remained empty for more than 2 hours, purging is required. If an emergency oxygen cylinder does not warrant the purging process, proceed to step 10 for charging sequence.

3. Deplete emergency oxygen cylinder if necessary.

4. Connect nitrogen source to filling adapter, and close pressure regulator.

NOTE

If relief valve on Oxygen Purging Electric Heater will not allow 100 psi, raise pressure only to allowable limit.

5. Slowly pressurize to 100 psi with nitrogen at temperature of 110 to 130 degrees C (230 to 266 degrees F) using electric heater.

6. Turn off nitrogen source and deplete oxygen cylinder.

7. Repeat steps 5 and 6, two times.

8. With pressure regulator open, turn on nitrogen source and purge for 10 minutes at temperature of 110 to 130 degrees C (230 to 266 degrees F).

9. Turn off nitrogen source and disconnect.

10. Connect oxygen source to filling adapter with suitable pressure regulator and shut-off valve. Reset pressure regulator.

11. Slowly pressurize to 100 psi.

12. Deplete cylinder to 50 psi.

13. Ensure that minimum slack exists in actuating cables of pressure regulator, yet enough to ensure yokes do not become unseated from spacer.

WARNING

Observe filling stages as rapid application of oxygen pressure creates heat which may result in fire or explosion.

Allow no less than 3 minutes for each filling stage and 2 minute intervals for cooling between stages.

NOTE

If kit is to be stored, the emergency oxygen bottle shall be depleted or filled to 200 PSI (when needle on gage bisects E on refill). For shipping, fill or deplete to 25 PSI using the gage on the oxygen refill cylinder.

14. Charge emergency oxygen system in stages in accordance with table 5-4 until pressure gage indicates correct pressure for existing ambient temperature (table 5-5).

WARNING

Visually ensure that filler valve does not turn as filling adapter is removed. Serious injury could result.

15. Loosen filling adapter until all pressure is bled from high-pressure line. Remove filling adapter.

NOTE

Alternate Fill Valve P/N 9120097-27 is coreless and has a maximum leakage rate of 1 cc/hr. This will be evident by very tiny bubbles passing though the top of the valve when leak detection compound is applied level to the top rim. No leaks around the threads are acceptable. If large bubbles are evident, contact survival kit FST for disposition.

16. Apply leak detection compound around filler valve, gage and pressure regulator and check for leaks. Then thoroughly clean all connections using clean water and dry with lint-free cloth, filtered low pressure compressed air, or low pressure nitrogen.

17. Reinstall oxygen filler valve cap on filler valve.

18. If the personnel parachute and seat pan assembly were removed in step 1, reinstall using the applicable maintenance manual.

Table 5-4. Charging Stages

Stage	PSI
1	500
2	1000
3	1500
4	1800
5	2000

Table 5-5. Ambient Air Temperature Vs Charging Pressures

Ambient Air Temperature		Charging Pressure
°F	°C	PSI
0	-18	1550-1750
10	-12	1600-1775
20	-7	1625-1800
30	-1	1675-1850
40	5	1700-1875
50	10	1725-1925
60	16	1775-1975
70	21	1800-2000
80	27	1825-2050
90	32	1875-2075
100	38	1900-2125
110	43	1925-2150
120	49	1975-2200
130	54	2000-2225

Section 5-6. Maintenance

5-46. GENERAL.

WARNING

Keep working area clean and free of oil, grease and dirt. Do not attempt to perform any component removal with the oxygen system pressurized.

5-47. This section contains procedures for troubleshooting, disassembly, cleaning, inspection of disassembled parts, repair or replacement of parts, assembly and adjustment. Disassemble only to extent required to perform task. Work shall be performed in a clean, dust and grease-free area.

5-48. TROUBLESHOOTING.

5-49. Where troubles or operating malfunctions are encountered, locate probable cause and remedy using table 5-6.

5-50. DISASSEMBLY.

5-51. Disassemble the seat pans using the key index numbers assigned to figures 5-17 through 5-20 as a reference.

NOTE

Discard all O-rings, seals, cotter pins, and Teflon sealing tape removed from oxygen connections during disassembly. Discard any threaded inserts, rivets, rubber pads, seals, molding, or hook and pile fastener tape removed during disassembly of the seat pans.

5-52. CLEANING.

5-53. To clean the disassembled oxygen and non-oxygen components of the kit (except for cushions and fabric components) refer to NAVAIR 13-1-6.4-1.

5-54. CLEANING CUSHIONS AND FABRIC COMPONENTS. Clean cushions and all fabric components as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Cleaning Compound	MIL-C-25769
As Required	Detergent, General Purpose	MIL-D-16791
As Required	Lint-free Cloth	MIL-C-85043 NIIN 00-044-9281
As Required	Talc, Technical	MIL-T-50036A

NOTE

If using cleaning compound (MIL-C-25769), combine one part compound to three parts water. If using general purpose detergent, follow directions on container.

1. Prepare detergent or cleaning compound (MIL-C-25769) solution.

2. Apply solution to soiled area with spray or sponge.

3. Allow solution to remain on surface for few minutes, then scrub with soft brush or cloth.

4. Rinse surface thoroughly with water; wipe with cloth or sponge.

NOTE

Repeat steps 1 through 4 until material is clean.

5. Repeat step 4 until material is free from all solution.

Table 5-6. Troubleshooting

Trouble	Probable Cause	Remedy
Pressure regulator leaking during test.	Faulty pressure regulator.	Replace or adjust pressure regulator in accordance with paragraph 5-63 or 5-66.
Emergency oxygen does not actuate when manual oxygen release or emergency release is pulled.	Cable broken.	Replace cable.
	Cable not connected to yoke.	Connect cable to yoke.
	Cable improperly routed.	Reroute cable in accordance with paragraph 5-63.
	Pressure regulator not properly adjusted.	Adjust pressure regulator in accordance with paragraph 5-66.
Low or zero indicator on pressure gage.	Oxygen bottle empty.	Charge bottle.
	Defective gage.	Replace gage.
	Leaking components.	Tighten connections or replace.
Emergency oxygen pressure not within 45 to 80 psi.	Pressure regulator not properly adjusted.	Adjust in accordance with paragraph 5-66.
	Defective pressure regulator.	Replace pressure regulator.
Emergency oxygen relief valve does not operate within 120 to 140 psi.	Defective relief valve.	Replace relief valve.
Loss of aircraft communications.	Broken or misaligned pins and sockets in hose connectors. Open or short circuit in oxygen hose wiring.	Perform electrical check in accordance with chapter 4.

6. Allow material to dry thoroughly.

7. (Soft Pack Survival Kits) Dust interior surfaces with light coating of talc.

5-55. INSPECTION OF DISASSEMBLED PARTS.

5-56. Inspect the disassembled parts of the seat pan for damage, distortion, corrosion, and other damage in accordance with table 5-7. Inspect soft pack container markings as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Ink, Waterproof, Black	TT-I-542

1. Compare markings on container with markings listed in table 5-8.

2. Paint over incorrect markings using waterproof black ink.

3. Add correct marking as close as possible to specified location using black, waterproof ink.

Table 5-7. Inspection

Component	Task
Fabric Cover	Check for rips, tears, and loose or frayed stitching.
	Check slide fastener for security of attachment and trouble-free operation.
	Check for security of snap fasteners.
Oxygen Bottle	Inspect end fitting for thread damage.
	Check bottle for bulges, cracks, dents, nicks, gouges, and scratches which penetrate metal. Carefully inspect areas adjacent to welds.
Manual Oxygen Release	Check ball for security of attachment.
	Check cable for broken or frayed strands.
	Check for proper routing of cable.
Oxygen Gage	Check for cracked or missing glass, bent or broken needle and stop, or jammed needle.
Pressure Regulator	Check yokes for distortion, hole wear, and screw damage.
	Check adjusting nut threads and holes for damage and wear.
	Check housing assembly for breaks, gouges, and other obvious damage.
	Check parts, threads, and diaphragm seating area for damage.
Survival Equipment	Inspect in accordance with NAVAIR 13-1-6.5.

Table 5-8. Soft Pack Case/Container Markings

Case/Container	Marking (Note 1)	Location	Letter Height
Standard Soft Pack Outer Container	STANDARD OUTER SOFT PACK CONTAINER	Main panel on either side of adjustable strap.	7/8 inch
High Speed Soft Pack Outer Container	[NONE]		
Special Outer Container	[NONE]		
Combination Carrying Case and Equipment Container	EQUIPMENT	Upper side of equipment compartment	1 inch
	LIFERAFT	Cover flap of raft compartment	1 inch
Equipment Container	EQUIPMENT	Main panel	1 inch
	RSSK OR HSSP	Main panel	1/2 inch

Notes: 1. All markings shall be stamped or stenciled with waterproof black ink. All words enclosed by brackets, in the column headed Marking, shall not be stenciled on the equipment; they are to be regarded as instructions only.

5-57. REPAIR AND REPLACEMENT.

5-58. Repair of individual components within any assembly is authorized only in accordance with procedures outlined in this manual. Make necessary entries on appropriate form in accordance with OPNAVINST 4790.2 Series. All individual components that fail to pass inspection shall be replaced except where a repair procedure is indicated. Refer to source code listing (SM&R Code) in the Numerical Index of the Illustrated Parts Breakdown to aid in determining replaceable components. All adjustable components or assemblies that have failed to pass respective tests shall be readjusted to meet required specification.

5-59. REPAIR OF SEAT PAN TABS. To repair broken tabs on the seat pan assembly (index 24, figure 5-17 of the Douglas Seat Pan, manufacture and install new tabs in accordance with figure 5-13.

5-60. REPAIR OF CUSHION ASSEMBLY. Repair of the cushion assembly, cover assembly, and seat comfort pad is limited to sewing of loose or open seams, broken stitches, and small rips and tears.

5-61. ASSEMBLY.

NOTE

The tamper dot on the Oxygen Hose Assembly shall be applied to the fitting in a manner which provides easy identification for inspection purposes when the seat kit is installed in the seat.

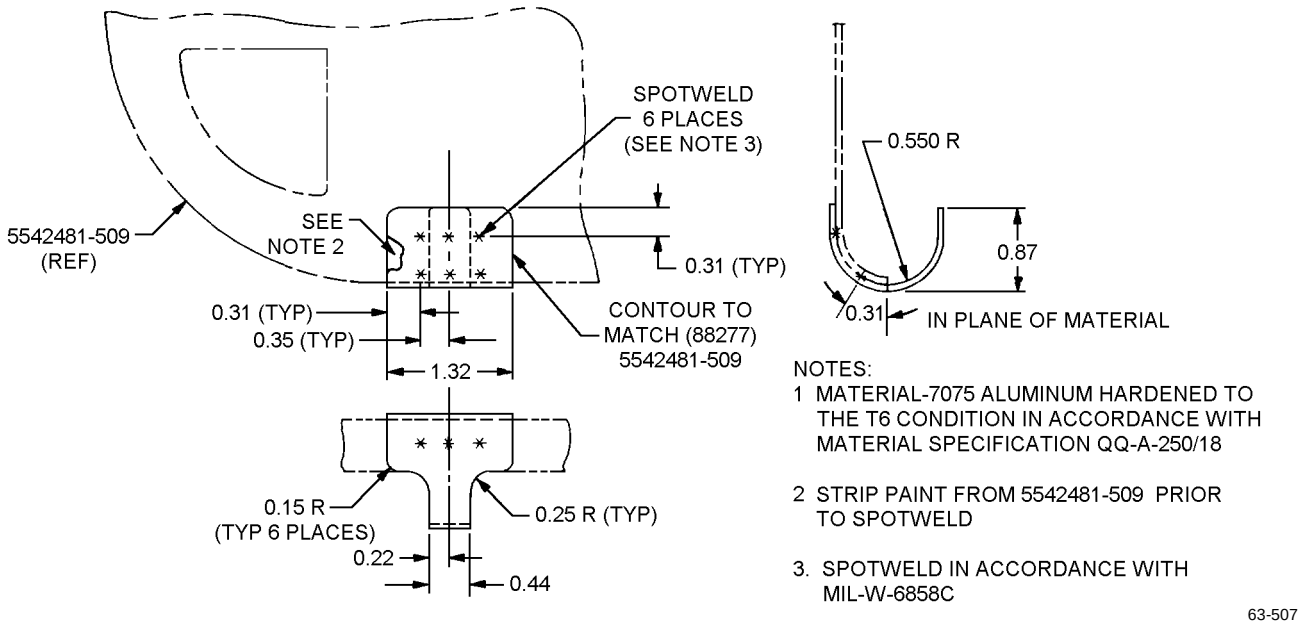


Figure 5-13. Seat Pan Assembly Hook Repair

5-62. After nuts and fittings are properly torqued (refer to Appendix B), apply tamper dots to all oxygen fittings shown in figures 5-17 and 5-18. Use lacquer, specification MIL-L-7178, Fed. Std. 595. Use any contrasting color when applying tamper dots to oxygen fittings. Assemble remainder of seat pan using the index numbers of figures 5-17 and 5-18 as a reference and noting the following instructions:

Materials Required

Quantity	Description	Reference Number
As Required	Wire, Safety or Lock, Copper, Type S, 26 AWG (0.0159 Dia.)	QQ-W-343
As Required	Wire, Safety or Lock	MS20995N32

Materials Required (Cont)

Quantity	Description	Reference Number
As Required	Krytox, 240 AC, Type III	MIL-G-27617 NIIN 00-961-8995
As Required	Lacquer	MIL-L-7178

5-63. (DOUGLAS SEAT PAN) PRESSURE REGULATOR. Special instructions are as follows (figure 5-14):

1. Place plunger locking washer on plunger stem with washer tabs positioned in indents.

2. Place spacer on plunger stem.

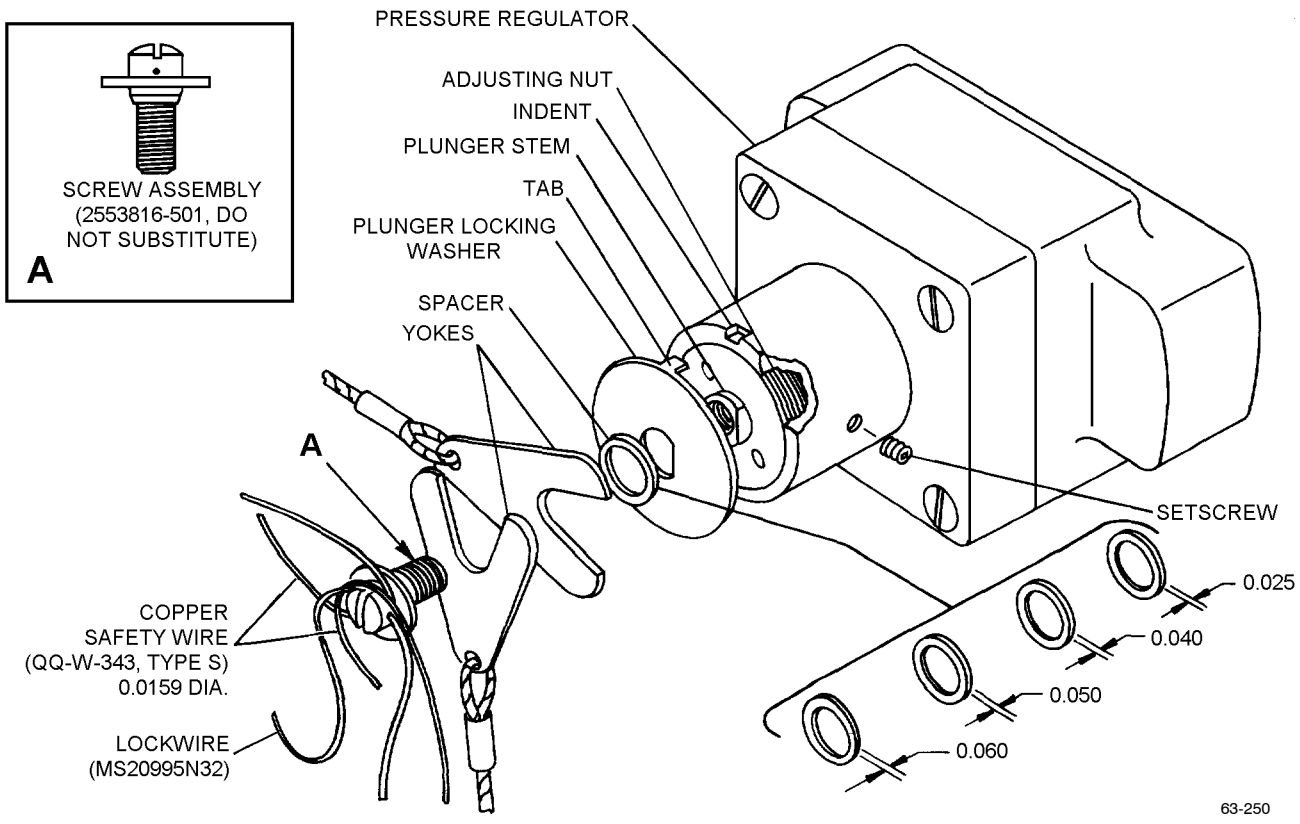
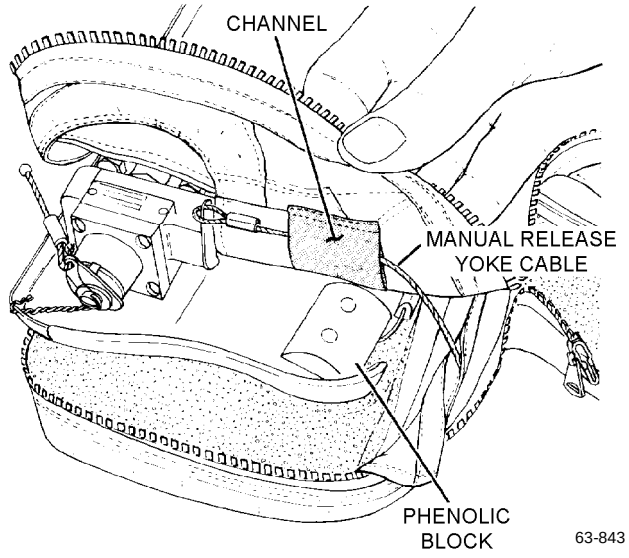


Figure 5-14. Pressure Regulator

3. Thread screw assembly into plunger stem a sufficient distance to allow both yokes to fit between screw and spacer.

4. Route manual oxygen release yoke cable through channel in underside of seat pan cover and over phenolic block.



Step 4 - Para 5-63

5. Install both yokes between screw assembly collar and spacer and snugly tighten screw assembly.

WARNING

Ensure yoke bottoms against spacer and not plunger stem.

6. Rotate yokes to ensure they are not bottomed against plunger stem. If bottoming occurs, install larger size spacer as required.

WARNING

No substitute shall be used for QQ-W-343, Type S, 0.0159 Dia. wire.

7. Secure each yoke to head of screw assembly using QQ-W-343, Type S, 0.0159 Dia. safety wire. Pass safety wire through cable eye of yokes and around screw assembly head. Pull safety wire tight and secure by twisting at eye. Separate safety wire shall be used for each yoke (figure 5-15).

8. Secure screw assembly to seat pan using MS20995N32 lockwire. Pass lockwire through hole in screw, above yoke safety wire, and through hole in seat pan. Pull lockwire tight and secure by twisting at seat pan hole (figure 5-15).

5-64. (DOUGLAS SEAT PAN) CHECK VALVE ASSEMBLY. Special instructions are as follows (figure 5-16):

WARNING

Ensure all parts are free of foreign material.

1. Lubricate threads of check valve, emergency oxygen check valve coupling, and oxygen hose coupling nuts with MIL-T-5542 antiseize compound.

2. (P/N 3275 Check Valve) Assemble new gasket (MS28778-4) on to check valve outlet. Insert check valve (P/N 3275) into oxygen coupling assembly with O-ring facing oxygen hose connection. Loosely thread check valve outlet into coupling assembly and hose assembly onto check valve outlet.

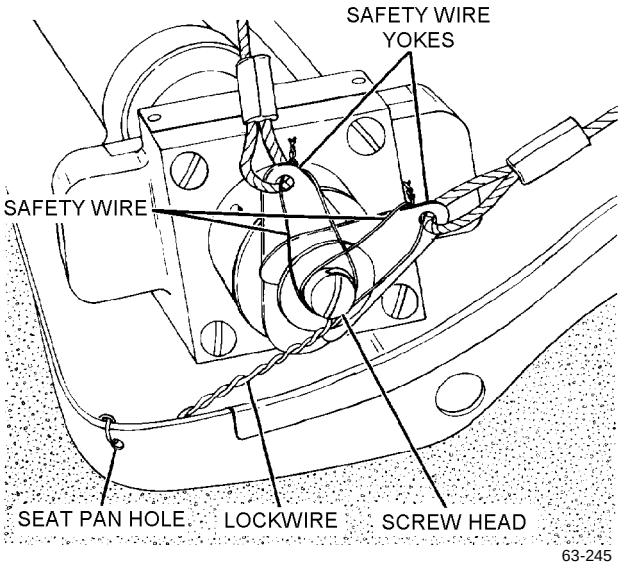


Figure 5-15. Pressure Regulator Yokes

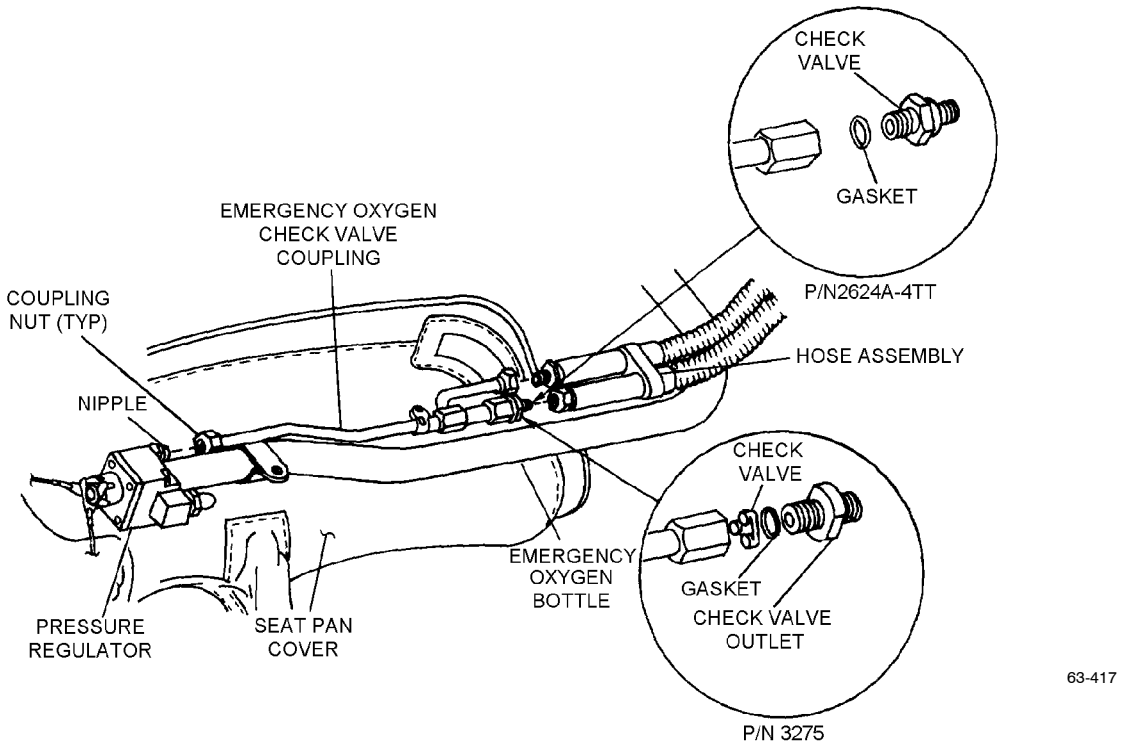


Figure 5-16. Oxygen Check Valve Assembly

3. (P/N 2624A-4TT Check Valve) Assemble new gasket (MS28778-4) on to check valve outlet. Place check valve in position between oxygen coupling assembly and hose assembly. Loosely thread coupling nuts hand tight.

4. Tighten all coupling nuts to correct torque values. Refer to Appendix B.

5. Leak test check valve assembly in accordance with paragraph 5-43.

5-65. ADJUSTMENT.

5-66. (DOUGLAS SEAT PAN) ADJUSTMENT OF PRESSURE REGULATOR. If delivery pressure is not within tolerance, adjust pressure regulator as follows (figure 5-14):

Materials Required

Quantity	Description	Reference Number
As Required	Wire, Safety or Lock, Copper, Type S, 26 AWG (0.0159 Dia.)	QQ-W-343

Support Equipment Required

Quantity	Description	Reference Number
1	Wrench, Adjusting	F2164

1. Remove yokes and screw assembly from pressure regulator.

2. Remove spacer and plunger locking washer, and loosen setscrew.

3. While holding plunger stem stationary, rotate adjusting nut clockwise to increase pressure or counterclockwise to decrease pressure.

4. Tighten setscrew and install plunger locking washer, spacer and screw assembly. Secure with copper safety wire in accordance with paragraph 5-63.

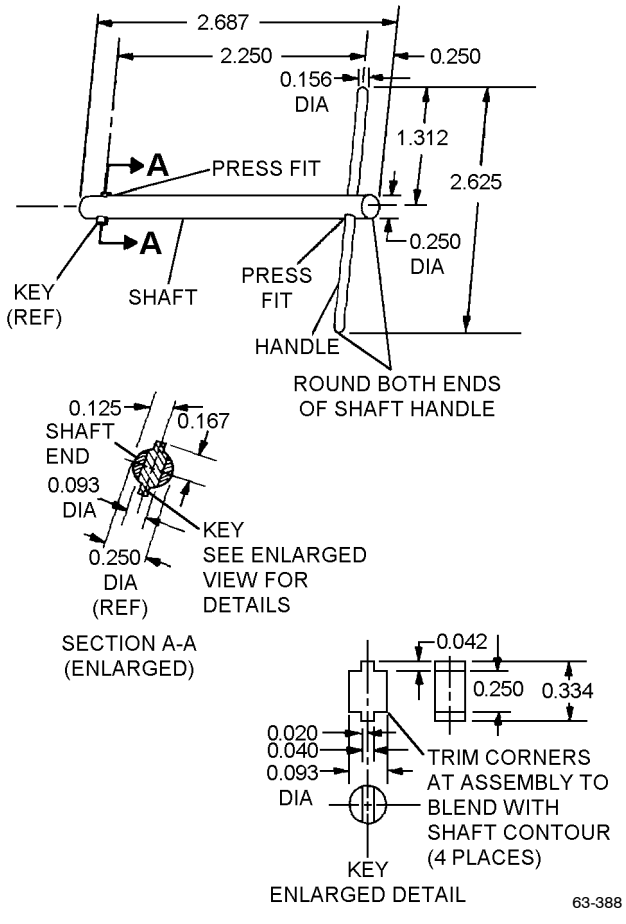
Section 5-7. Fabrication

5-67. GENERAL.

5-68. This section contains instructions for fabrication of tools and components that can be manufactured by local activities.

5-69. T-WRENCH. To fabricate a T-wrench, proceed as follows:

1. Fabricate wrench from steel as shown.



Step 1 - Para 5-69

5-70. BRAKE RIDER'S STRAP. To fabricate a brake rider's strap, proceed as follows:

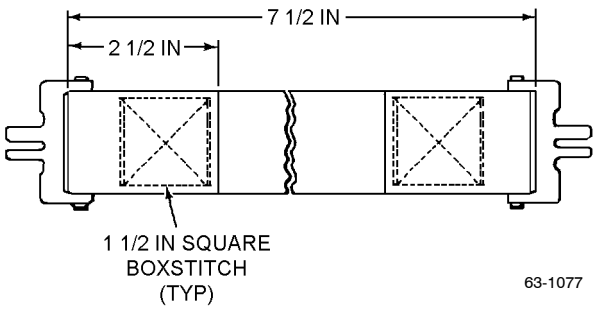
Materials Required

Quantity	Description	Reference Number
2	Release Assembly Lapbelt Fitting	015-11366-1 (CAGE 99449)
24 Inches	Webbing, Nylon, Type XXVII, 1 23/32 in. wide	MIL-W-4088 NIIN 00-530-1489
As Required	Thread, Nylon, Type II, Class A, Size 6	V-T-295 NIIN 00-559-5211

1. Cut a piece of nylon webbing 24 inches in length.

2. Sear exposed ends of webbing.

3. Secure fittings with 1 1/2 inch square box-stitch. All Stitching shall be ASTM-D-6193, Type 301, 4 to 6 stitches per inch, and backstitch 1/2 inch minimum.



Step 3 - Para 5-70

Section 5-8. Illustrated Parts Breakdown

5-71. GENERAL.

5-72. This section lists and illustrates the assemblies and detail parts of the Seat Pan Assemblies as manufactured by Douglas Aircraft Co. (Douglas Seat Pan) and Erie Manufacturing Co. (SP-1A Emergency Oxygen Bottle).

5-73. The Illustrated Parts Breakdown should be used during maintenance when requisitioning and identifying parts.

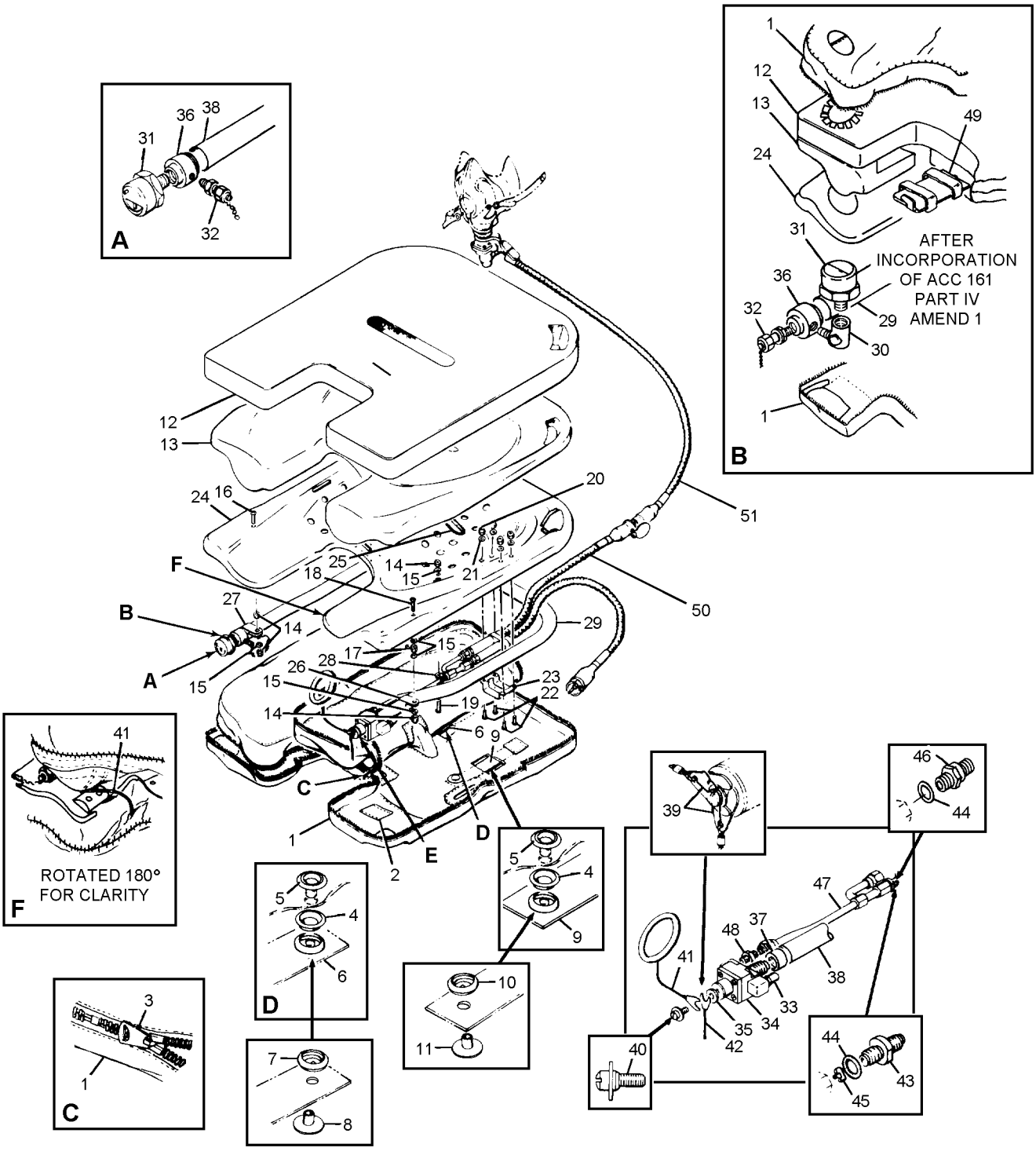


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Figure 5-17. Douglas Seat Pan

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
5-17	5811863	PAN ASSEMBLY, Emergency oxygen and comfort (See Dwg 7442584 for NHA)	1	
	5811863-503	PAN ASSEMBLY, Emergency oxygen and comfort (See Dwg 7442584 for NHA) (Note 1)	1	
	5811863-47	. PAN ASSEMBLY, Emergency oxygen and comfort	1	
-1	5811863-37	. . COVER ASSEMBLY, Emergency oxygen and seat pan	1	
-2	5811863-35	. . . GUIDE, Channel	1	
-3	AN229-2BL2841	. . . FASTENER, Slide	1	
-4	AN227-64B	. . . FASTENER	3	
-5	AN227-9B	. . . FASTENER	3	
-6	5811863-27	. . . KEEPER ASSEMBLY, Emergency oxygen and comfort pan	1	
-7	AN227-63B	. . . . FASTENER	1	
-8	AN227-62B	. . . . FASTENER	1	
-9	5811863-29	. . . KEEPER ASSEMBLY, Emergency oxygen and comfort pan	2	
-10	AN227-63B	. . . . FASTENER	1	
-11	AN227-62B	. . . . FASTENER	1	
-12	5543382-503	. . PAD, Ejection seat comfort	1	
-13	5542483-503	. . PAD, Ejection seat shock	1	
-14	MS21083D08	. . NUT, (Equivalent to NAS1022D08)	4	
-15	AN960D8L	. . WASHER	5	
-16	MS51957-47	. . SCREW, (Equivalent to AN515C8-12)	1	
-17	MS21044D08	. . NUT, (Equivalent to NAS1021D08)	1	
-18	MS51957-48	. . SCREW, (Equivalent to AN515C8-14)	1	
-19	MS51957-44	. . SCREW, (Equivalent to AN515C8-7)	1	
-20	MS21083D06	. . NUT, (Equivalent to NAS1022D06)	4	
-21	AN960D6	. . WASHER	4	
-22	MS35206-228	. . SCREW, (Equivalent to AN515-6R6)	4	
-23	5811863-31	. . BRACKET, Emergency oxygen and seat pan	1	
-24	5542481-509	. . PAN ASSEMBLY, Seat	1	
-25	S177469N7-1516	. . CHANNEL, Extruded elastic	1	
-26	AN742D16	. . CLAMP	1	
-27	AN742D19	. . CLAMP	1	
-28	MS21919DG4	. . CLAMP	1	
-29	5811270	. . BOTTLE ASSEMBLY, Emergency oxygen	1	
	5811270-3	. . . BOTTLE ASSEMBLY, Emergency oxygen	1	
-30	AN914-1D	. . . . ELBOW	1	
-31	AW1-14A	. . . . GAGE, Emergency oxygen (61349)	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
5-17-32	F1263-1	. . . . VALVE ASSEMBLY, Emergency . . . . . oxygen bottle charging (97413) (Per Douglas Spec. Cont. Dwg. 7545553)	1	
	9120097-27	. . . . FILL VALVE (Note 4)	1	
-33	F46400-14	. . . . VALVE ASSEMBLY, Pressure relief . . . . . (97413) (Per Douglas Spec. Cont. Dwg. 7544874-505)	1	
-34	F17302-5	. . . . REGULATOR ASSEMBLY, Oxygen . . . . . bottle pressure (97413) (Per Douglas Spec. Cont. Dwg. 7544874-503) (See figure 5-19 for BKDN)	1	
	F17302-9	. . . . REGULATOR ASSEMBLY, Oxygen . . . . . bottle pressure (97413) (Per Douglas Spec. Cont. Dwg.7544874-503) (See figure 5-19 for BKDN)	1	
-35	F2511-1	. . . . . WASHER, Pressure regulator . . . . . (97413) (Note 2)	AR	
	F2511-2	. . . . . WASHER, Pressure regulator . . . . . (97413) (Note 2)	AR	
	F2511-3	. . . . . WASHER, Pressure regulator . . . . . (97413) (Note 2)	AR	
	F2511-4	. . . . . WASHER, Pressure regulator . . . . . (97413) (Note 2)	AR	
	5811270-7	. . . . BOTTLE ASSEMBLY, Emergency . . . . . oxygen	1	
-36	F17311	. . . . . FITTING, Emergency oxygen . . . . . bottle (97413)	1	
-37	F1871-1	. . . . . PLUG, Emergency oxygen . . . . . bottle (97413)	1	
-38	5811270-5	. . . . . BOTTLE, Emergency oxygen	1	
-39	QQ-W-343	. . . LOCKWIRE, Copper, type S . . . . . (0.0159 Dia.) (Do not substitute)	AR	
-40	2553816-501	. . . SCREW ASSEMBLY, Emergency . . . . . oxygen bottle	1	
-41	2668896-501	. . . CABLE ASSEMBLY, Emergency . . . . . oxygen bottle ring	1	
-42	2668895	. . . CABLE ASSEMBLY, Emergency . . . . . oxygen bottle	1	
	3559557	. . . COUPLING ASSEMBLY, Emergency . . . . . oxygen check valve	1	
-43	2556507	. . . . OUTLET, Four way oxygen check . . . . . valve (Use until exhausted then use 2624A-4TT)	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
5-17-44	MS28778-4	. . . . PACKING, (Equivalent to AN6290-4)	1	
-45	3275	. . . . VALVE, High Pressure oxygen check . . . . (86831) (Use until exhausted then use 2624A-4TT)	1	
-46	3104AS100-1	. . . . VALVE, High Pressure oxygen check . . . . (Replaces 2556507 and 3275)	1 1	
-47	3559557-7	. . . . COUPLING ASSEMBLY, Emergency . . . . oxygen check valve (Welded)	1	
-48	AN816-4D	. . . NIPPLE	1	
-49	CL204D2-1	. BRACKET ASSEMBLY, Radio beacon (KF) . . . . . (Note 3)	1	
	V66-1ACC-161	. PARTS KIT (F)	1	
-50	12081-2	. HOSE ASSEMBLY, Emergency oxygen . . . . . . (Alternate REDAR-A-10566-1) (Note 1)	1	
-51	REDAR-A-10067-2	. HOSE ASSEMBLY, Pilot oxygen supply	1	
	Notes: 1. Aircraft incorporating ACC 82. 2. Correct washer thickness to be selected at assembly. 3. After incorporation of ACC 161, Part IV, Amend. 1 4. Fill Valve can be used as an alternate to replace Emergency Valve Assembly P/N F1263-1.			

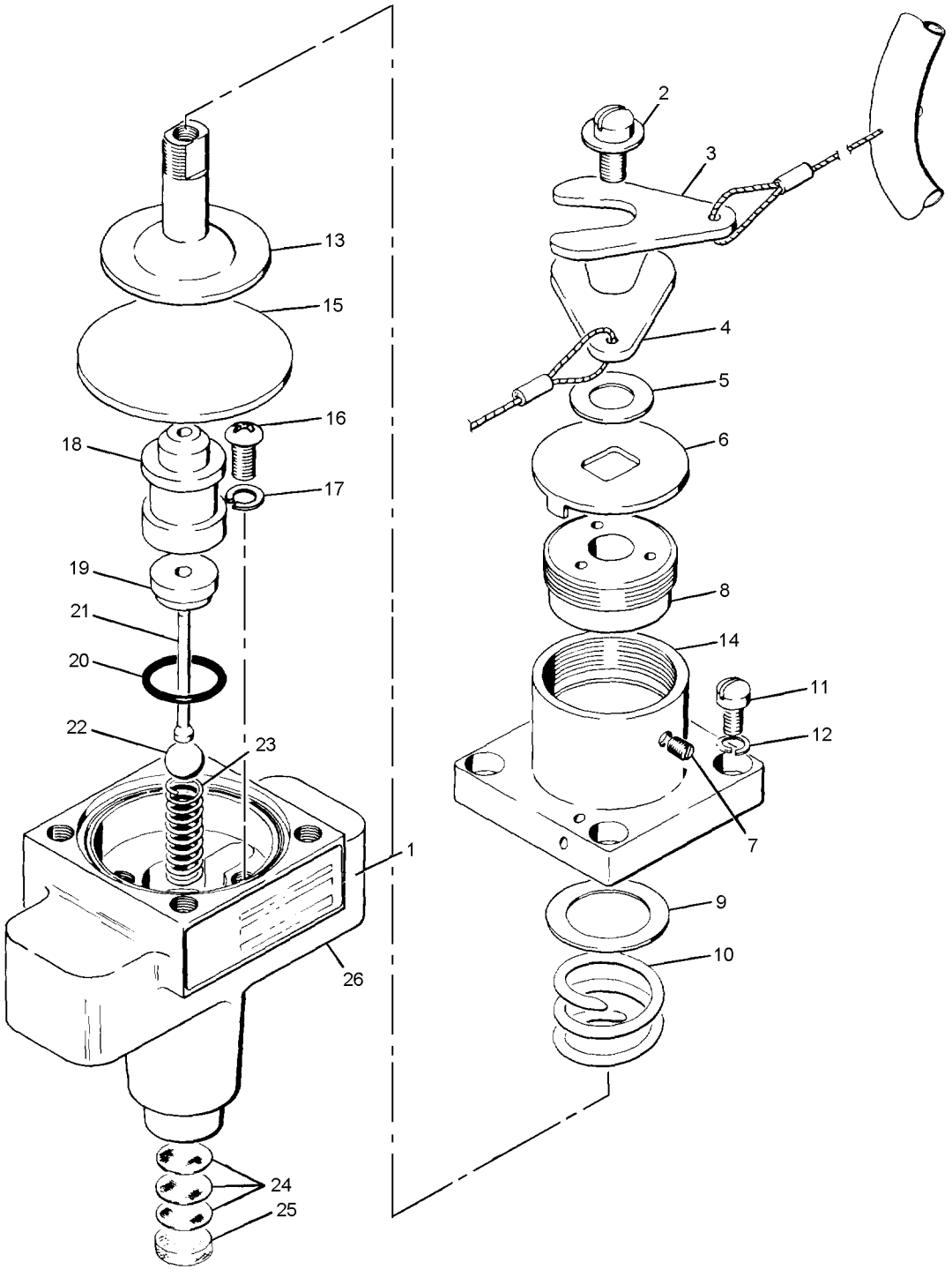


Figure 5-18. Douglas Pressure Regulator

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
5-18	F17302-5	REGULATOR ASSEMBLY, Oxygen bottle pressure (97413) (Per Douglas Spec Dwg 7544874-503) (See figure 5-18 for NHA)	REF	
	F17302-9	REGULATOR ASSEMBLY, Oxygen bottle pressure (97413) (Per Douglas Spec Dwg 7544874-503) (See figure 5-18 for NHA)	REF	
	F17303-5	. REGULATOR ASSEMBLY, Oxygen bottle pressure (97413) (Used on F17302-5 (97413))	1	
	F17303-9	. REGULATOR ASSEMBLY, Oxygen bottle pressure (97413) (Used on F17302-9 (97413))	1	
-1	F17306-1	. . NAMEPLATE, Identification (97413)	1	
-2	2553816-501	. . SCREW ASSEMBLY , Emergency oxygen bottle (See Dwg 5811270 for NHA)	1	
-3	2668896-501	. . YOKE ASSEMBLY , Emergency oxygen bottle ring (See Dwg 5811270 for NHA)	1	
-4	2668895	. . YOKE ASSEMBLY , Emergency oxygen bottle (See Dwg 5811270 for NHA)	1	
-5	F2511-1	. . SPACER, Oxygen bottle pressure regulator (97413) (Note 1)	AR	
	F2511-2	. . SPACER, Oxygen bottle pressure regulator (97413) (Note 1)	AR	
	F2511-3	. . SPACER, Oxygen bottle pressure regulator (97413) (Note 1)	AR	
	F2511-4	. . SPACER, Oxygen bottle pressure regulator (97413) (Note 1)	AR	
-6	F17313-1	. . WASHER, Stem (97413)	1	
-7	AN565D4H2	. . SCREW	1	
-8	F2169-3	. . NUT, Adjusting (97413)	1	
-9	F1542-1	. . WASHER, Regulator spring (97413)	1	
-10	F1569	. . SPRING, Adjusting (97413)	1	
-11	AN500-6-6	. . SCREW	4	
-12	AN935-6	. . WASHER	4	
-13	F17312-1	. . STEM, Spring (97413)	1	
-14	F2098-1	. . HOUSING, Regulator spring (97413)	1	
-15	F2602-3	. . DIAPHRAGM, Regulator (97413)	1	
-16	AN515C8-4	. . SCREW, (Used on F17303-5)	4	
	AN515C8-5	. . SCREW, (Used on F17303-9)	4	
-17	AN935-8	. . WASHER, (Used on F17303-9)	4	
-18	F1721-1	. . GUIDE, Regulator (97413)	1	
-19	F1517-3	. . SEAT, Regulator (97413)	1	
-20	FS5701-012	. . O-RING, Regulator (97413)	1	
-21	F1647-1	. . STEM, Regulator (97413)	1	
-22	216C1-16	. . BALL, Regulator (97413)	1	
-23	F1632	. . SPRING, Regulator (97413)	1	
-24	F1985	. . SCREEN, Filter (97413)	3	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
5-18-25	F2118-1	. . FILTER, Regulator (97413)	1	
-26	F2058-1	. . BODY, Regulator (97413)	1	
	Notes: 1. Correct spacer thickness to be selected at assembly.			

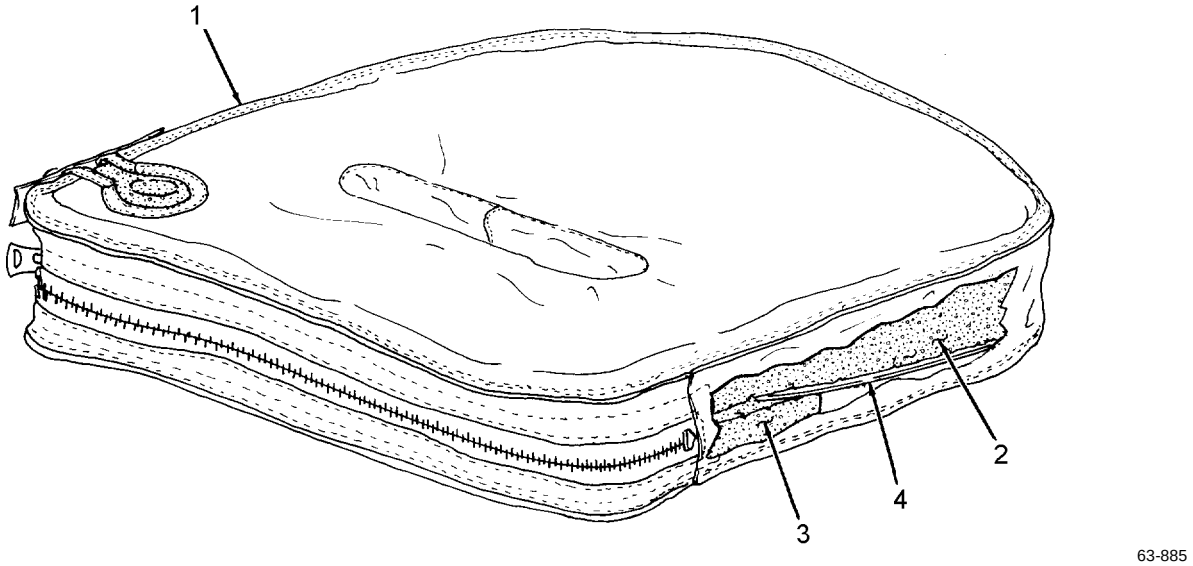
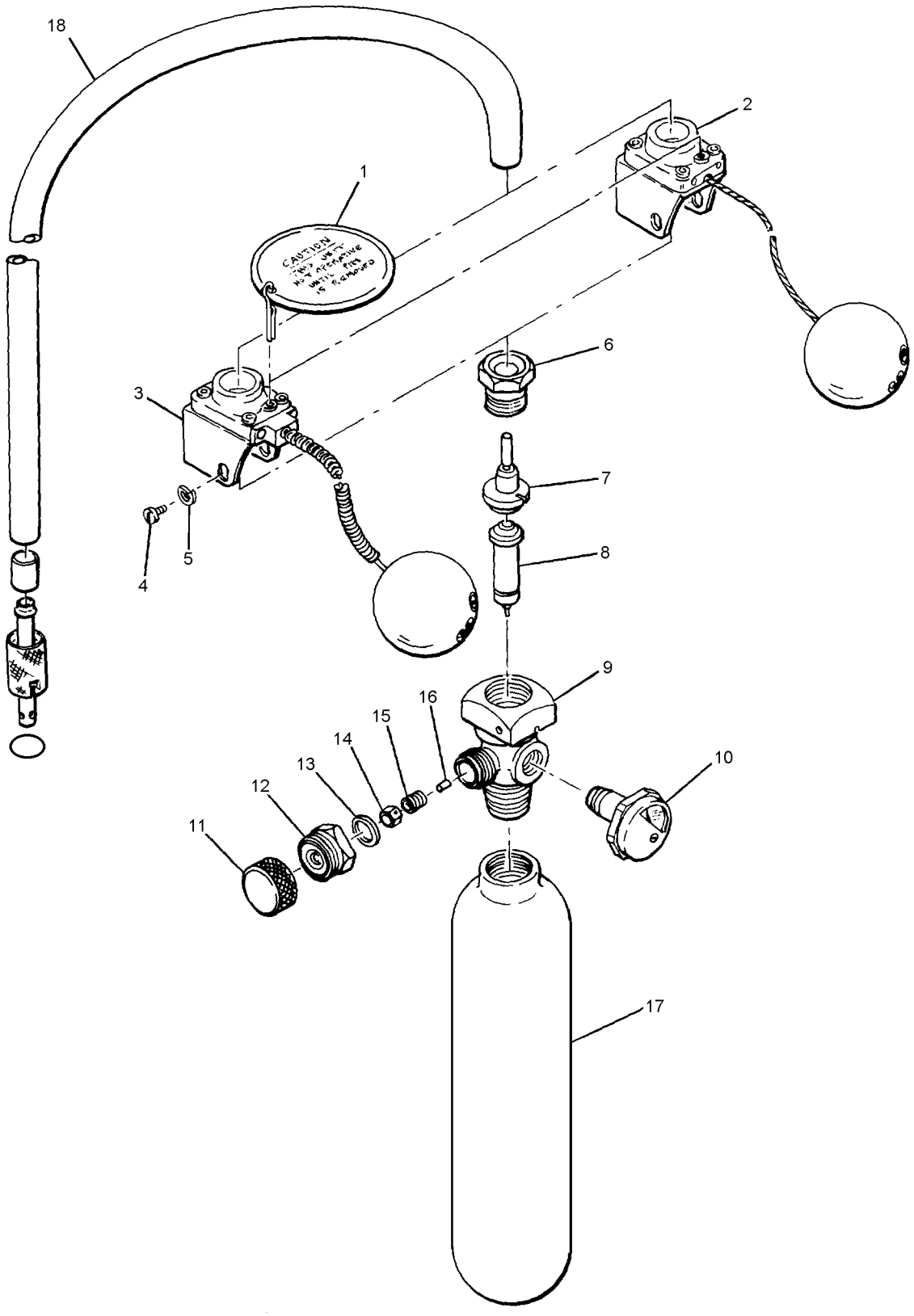


Figure 5-19. SP-1A Seat Pan Assembly

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
5-19	68A74E1-1	SEAT PAN ASSEMBLY , Pilot, SP-1A	1	
-1	68A74E2-1	. COVER ASSEMBLY	1	
	68A74E4	. CUSHION AND SLAB ASSEMBLY	1	
-2	68A74E4-1	. . CUSHION	1	
-3	68A74E4-2	. . SLAB	1	
-4	68A74E3-1	. PLATE ASSEMBLY	1	



005020

Figure 5-20. SP-1A Emergency Oxygen Bottle

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
5-20		CYLINDER ASSEMBLY, Emergency oxygen . . . . . (Note 1)	REF	
-1	MS21964-17	. TAG ASSEMBLY (Note 2)	1	
-2	MS21964-13	. HOUSING, Pull cable assembly open type . . . . . (6 inches)	1	
	MS21964-14	. HOUSING, Pull cable assembly open type . . . . . (16.25 inches)	1	
-3	MS21964-15	. HOUSING, Pull cable assembly housed type . . . . . (ATTACHING PARTS)	1	
-4	MS35214-38	. SCREW	4	
-5	AN936A8	. WASHER, Lock . . . . . ---*---	4	
-6	MS21964-16	. BUSHING, Nipple	1	
-7	MS21965-1	. NIPPLE, Break off	1	
-8	MS29597-1	. CONTROLLER, Oxygen flow	1	
-9	MS21964	. VALVE ASSEMBLY	1	
-10	MIL-G-7601	. GAGE, Type L-2	1	
-11	MS21964-9	. CAP AND SEAL ASSEMBLY, Side check	1	
-12	MS21964-8	. BUSHING ASSEMBLY, Side check	1	
-13	MS21964-10	. BUSHING GASKET, Side check	1	
-14	MS21964-7	. RETAINER ASSEMBLY, Side check	1	
-15	MS21964-6	. SPRING, Side check	1	
-16	214A21	. FILTER ASSEMBLY (20846)	1	
-17	MS26545	. CYLINDER, Emergency oxygen (Note 3)	1	
-18	MS21964-18	. HOSE AND FITTING ASSEMBLY, 28 inch	1	

Notes:
1. The top assembly cannot carry a P/N because the oxygen cylinder MS26545 may be followed by many different dash numbers depending on bottle capacity and application.
2. Tag assembly is for shipping purposes only and should be removed and discarded when placing emergency oxygen cylinder assembly in service.
3. When ordering, the P/N will BKDN as follows:

MS26545	A	2	X	0025
MS NUMBER	Type thread	Class	Usage Code	Nominal Capacity

NUMERICAL INDEX (DOUGLAS SEAT PAN)

Part Number	Figure and Index Number	SM&R Code
AN227-62B	5-17-8	
	5-17-11	
AN227-63B	5-17-7	
	5-17-10	
AN227-64B	5-17-4	
AN227-9B	5-17-5	
AN229-2BL2841	5-17-3	
AN500-6-6	5-18-11	
AN515C8-4	5-18-16	
AN515C8-5	5-18-16	
AN565D4H2	5-18-7	
AN742D16	5-17-26	
AN742D19	5-17-27	
AN816-4D	5-17-48	
AN914-1D	5-17-30	
AN935-6	5-18-12	
AN935-8	5-18-17	
AN960D6	5-17-21	
AN960D8L	5-17-15	
AW1-14A	5-17-31	
CL204D2-1	5-17-51	MO
FS5701-012	5-18-20	
F1263-1	5-17-32	PAGZZ
F1517-3	5-18-19	
F1542-1	5-18-9	
F1569	5-18-10	PAOZZ
F1632	5-18-22	
F1647-1	5-18-21	PAOZZ
F1721-1	5-18-18	PAOZZ
F17302-5	5-17-34	PAOGG
	5-18	
F17302-9	5-17-34	PAOGG
	5-18	
F17303-5	5-18	
F17303-9	5-18	
F17306-1	5-18-1	
F17311	5-17-36	
F17312-1	5-18-13	
F17313-1	5-18-6	
F1871-1	5-17-37	
F1985	5-18-24	
F2058-1	5-18-26	
F2098-1	5-18-14	
F2118-1	5-18-25	
F2169-3	5-18-8	
F2511-l	5-17-35	
	5-18-5	
F2511-2	5-17-35	
F2511-2	5-18-5	

Part Number	Figure and Index Number	SM&R Code
F2511-3	5-17-35	
	5-18-5	
F2511-4	5-17-35	
	5-18-5	
F2602-3	5-18-15	PAOZZ
F46400-14	5-17-33	PAOZZ
MS21044D08	5-17-17	
MS21083D06	5-17-20	
MS21083D08	5-17-14	
MS21919DG4	5-17-28	
MS28778-4	5-17-44	
MS35206-228	5-17-22	
MS51957-44	5-17-19	
MS51957-47	5-17-16	
MS51957-48	5-17-18	
QQ-W-343	5-17-39	
REDAR-A-10067-2	5-17-51	
S177469N7-1516	5-17-25	
V66-1ACC-161	5-17	
12081-2	5-17-50	
216C1-16	5-18-22	
2553816-501	5-17-40	
	5-18-2	
2556507	5-17-43	PAOZZ
2668895	5-17-42	PAOZZ
	5-18-4	
2668896-501	5-17-41	PAOZZ
	5-18-3	
3104AS100-1	5-17-46	PAOZZ
3275	5-17-45	
33C1142	5-17-49	PAOGG
3559557	5-17	PAOZZ
3559557-7	5-17-47	
5542481-509	5-17-24	
5542483-503	5-17-13	PAOZO
5543382-503	5-17-12	PAOZO
5811270	5-17-29	PAOGG
5811270-3	5-17	
5811270-5	5-17-38	
5811270-7	5-17	PAOGG
5811863	5-17	
5811863-27	5-17-6	
5811863-29	5-17-9	
5811863-31	5-17-23	
5811863-35	5-17-2	
5811863-37	5-17-1	PAOZZ
5811863-47	5-17	
5811863-503	5-17	

NUMERICAL INDEX (SP-1A)

Part Number	Figure and Index Number	SM&R Code
AN936A8	5-20-5	
MIL-G-7601	5-20-10	
MS21964	5-20-9	
MS21964-10	5-20-13	
MS21964-13	5-20-2	
MS21964-14	5-20-2	
MS21964-15	5-20-3	
MS21964-16	5-20-6	
MS21964-17	5-20-1	
MS21964-18	5-20-18	
MS21964-6	5-20-15	
MS21964-7	5-20-14	
MS21964-8	5-20-12	
MS21964-9	5-20-11	
MS21965-1	5-20-7	
MS26545	5-20-17	
MS29597-1	5-20-8	
MS35214-38	5-20-4	
214A21	5-20-16	PAOZZ
68A74E1-1	5-19	PAOZZ
68A74E2-1	5-19-1	
68A74E3-1	5-19-4	
68A74E4	5-19	
68A74E4-1	5-19-2	
68A74E4-2	5-19-3	
9120097-27	5-17-32	PAGZZ

CHAPTER 6

VENTILATED SEAT PAN

Section 6-1. Description

6-1. GENERAL.

6-2. The ventilated seat pan is designed for use with non-ejection seats. The ventilated seat pan functions as a seat for the aircrewmember as well as a container for an emergency oxygen system (figure 6-1).

6-3. The ventilated seat pan is attached to a standard soft pack survival kit. The standard soft pack contains a liferaft and survival equipment (figure 6-2).

6-4. CONFIGURATION.

6-5. The ventilated seat pan is constructed of a rigid base covered with a foam cushion and fabric cover. The foam cushion and fabric cover are attached to the base of the seat pan with hook and pile tape. The seat pan houses a 22 cu in., 1800 psi, emergency oxygen cylinder and hose assembly, capable of supplying just over 10 minutes of breathing oxygen for high altitude bailout or in the event of a failure of the aircraft oxygen system. The seat pan is attached to the standard soft pack by adjustable retaining straps on the soft pack container.

6-6. SUBASSEMBLIES. (figure 6-3.) Major subassemblies of the ventilated seat pan are as follows:

a. Emergency oxygen bottle and hose assembly

b. Seat pan base

c. Cushion and fabric cover

6-7. REFERENCE NUMBERS, ITEMS AND SUPPLY DATA.

6-8. Section 6-8, Illustrated Parts Breakdown, (figures 6-7 and 6-8) contains information on each assembly, subassembly, and component part of the seat pan. The figure and index number, reference or part number, description, and units per assembly are provided.

6-9. APPLICATION.

6-10. Ventilated seat pan P/N 123AB11592-1 (26512) and standard soft pack are used on the E-2 series and C-2A aircraft.

6-11. FUNCTION.

6-12. During normal flight operations, the seat pan functions as a ventilated seat for the aircrewmember. The seat pan is provided with a hose and bladder stitched under the seat cushion. When hooked up to the blower on the seat, this assembly provides forced ventilation of the seat.

6-13. When an emergency oxygen supply is required, the aircrewmember pulls the strap on the front of the right-hand side of the seat cushion. This strap pulls the seat flap open. The oxygen hose is attached to this strap. The aircrewmember shall then manually actuate the emergency oxygen supply by pulling the green ball under the seat flap.

6-14. The standard soft pack contains a liferaft and survival items. The liferaft shall be inflated manually by pulling the inflation assembly pull toggle. The radio beacon shall also be manually actuated by pulling out the automatic actuation plug and moving the switch to the on position.

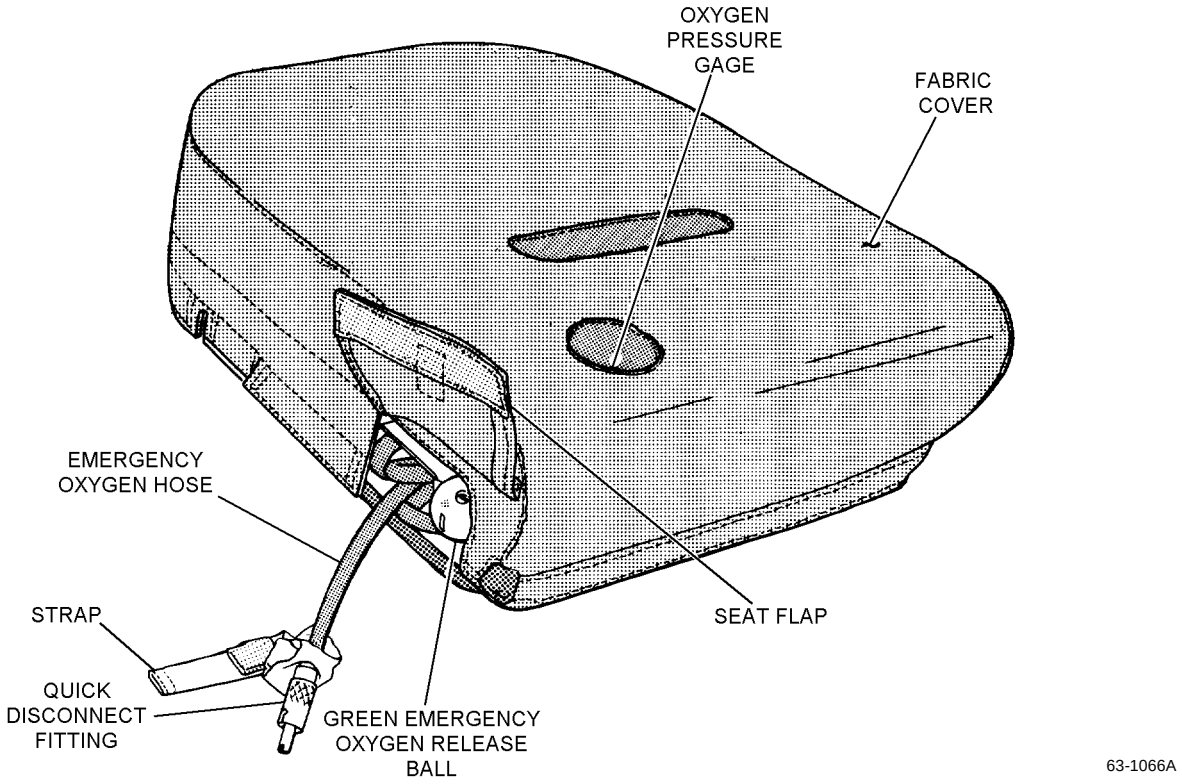


Figure 6-1. Ventilated Seat Pan

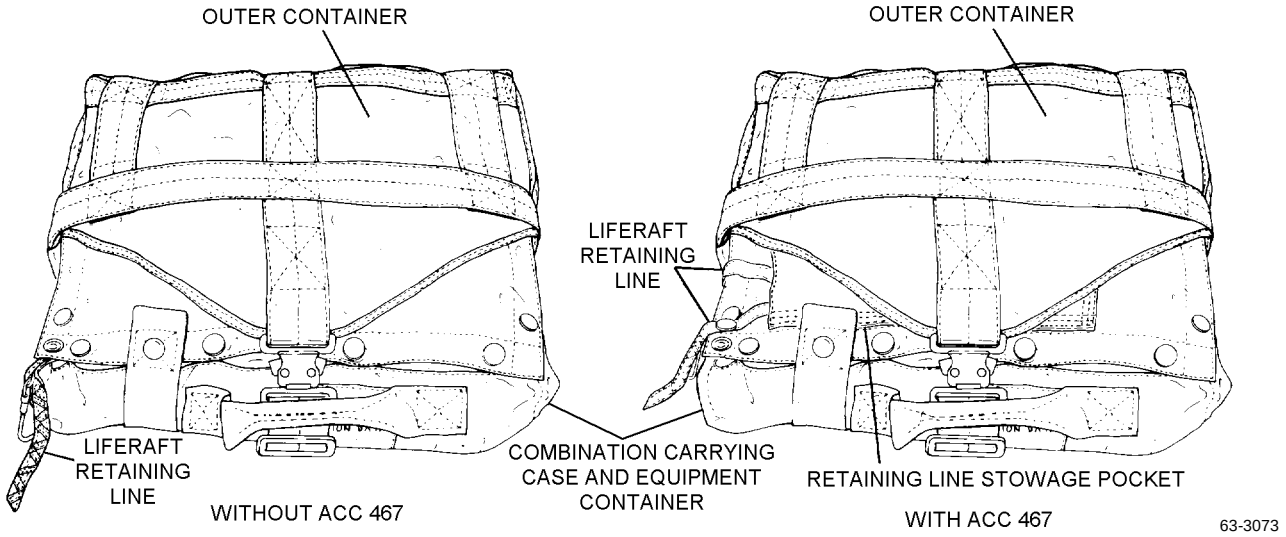


Figure 6-2. Standard Soft Pack

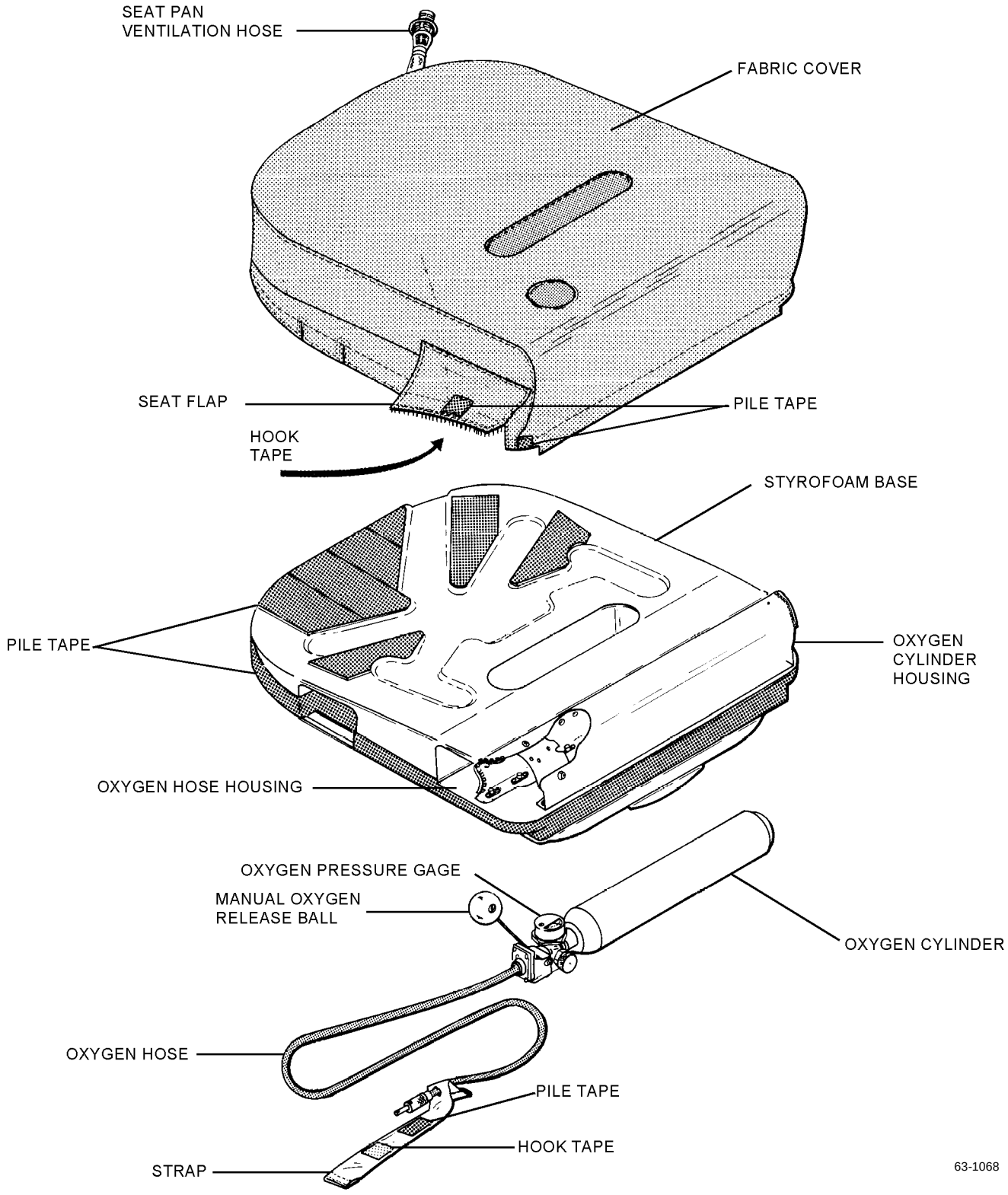


Figure 6-3. Seat Cushion, Pan, and Emergency Oxygen Bottle

Section 6-2. Modifications

6-15. GENERAL.

6-16. Standard Soft Packs, P/N 68A77H3-1, used on E-2 aircraft, shall be updated by comparing the configuration of the pack with the directives listed in table 6-1.

NOTE

There are no modifications to the standard soft pack used for C-2A aircraft required/ authorized at this time.

Table 6-1. Ventilated Seat Pan/Standard Soft Pack Directives

Description of Modification	Application	Modification Code
Modification of Standard Soft Pack, P/N 68A77H3-1, used by E-2 aircrew.	All LR-1 Standard Soft Packs used on E-2 Series Aircraft	66-467
Removal of AN/URT-33A Radio Beacon.	All LR-1 Standard Soft Packs installed in E-2 aircraft	66-473 Amend. 1

Section 6-3. Rigging and Packing

6-17. GENERAL.

6-18. Unless operational requirements demand otherwise, rigging and packing of the seat pans and soft pack survival kits shall be accomplished at Intermediate Levels of maintenance by qualified personnel every 448 days.

NOTE

Quality assurance steps are provided for critical operations. When a step is underlined, the Aircrew Survival Equipmentman shall perform the operation and then have performance verified by Quality Assurance (QA).

6-19. RIGGING AND PACKING PROCEDURES.

6-20. Rigging and packing of the seat pans and soft pack survival kits are accomplished in six operations as follows:

1. Preliminary Procedures
2. Survival Equipment Binding
3. Survival Equipment Packing
4. Liferaft Preparation, Folding, Rigging, and Packing
5. Attachment of Seat Pan to Soft Pack
6. Attachment of Seat Pan and Soft Pack to NB-7 and NB-8 Parachute. (Refer to NAVAIR 13-1-6.2.)

6-21. PRELIMINARY PROCEDURES. The following preliminary procedures shall be accomplished prior to rigging and packing the seat pans and soft pack survival kits.

1. Ensure that the seat pan and soft pack survival kit and components have been inspected in accordance with Section 6-5.

2. Inspect oxygen hose assemblies in accordance with Chapter 4.

3. Disassemble seat pan and soft pack by removing combination carrying case and equipment container from special outer container.

4. Inspect special outer covering for damage, fabric for loose, broken or frayed stitching, and hardware for security of attachment, corrosion, damage, wear, and ease of operation.

WARNING

CO_2 bottle is under pressure. Use caution when disconnecting CO_2 bottle from liferaft. Do not loosen or attempt to remove inflation valve assembly from CO_2 cylinder.

CAUTION

Ensure actuating line is disconnected from CO_2 cylinder inflation valve before removal of CO_2 cylinder from liferaft.

5. Disconnect CO_2 cylinder from liferaft as follows:

a. Carefully remove liferaft from container.

b. Disconnect actuation line from CO_2 cylinder.

c. Disconnect CO_2 cylinder from liferaft.

d. Remove liferaft retaining line from CO_2 cylinders neck.

e. Ensure anti-chafing disc is installed. Reconnect CO_2 cylinder to liferaft finger tight. If functional test is required torque valve 80 to 90 in-lbs.

6. Ensure liferaft and CO_2 cylinder have been inspected in accordance with NAVAIR 13-1-6.1-1.

7. Ensure survival items have been inspected in accordance with NAVAIR 13-1-6.5.

NOTE

Ensure battery service life does not expire prior to the next scheduled inspection cycle of the assembly in which the radio set is installed. Refer to NAVAIR 16-30URT33-1 for battery service life.

8. Remove radio beacon set from kit and ensure that the battery and radio beacon have been inspected in accordance with NAVAIR 16-30URT33-1.

9. Check soft pack assembly for cuts, tears and abrasions and hardware for security of attachment, corrosion, damage, wear, and if applicable, ease of operation.

6-22. SURVIVAL EQUIPMENT BINDING. Ensure all survival items have been inspected in accordance with NAVAIR 13-1-6.5 before binding. To bind survival items, proceed as follows (table 6-2).

NOTE

To prevent loss of survival items tie items individually and then tie to 140-inch length of nylon cord. Nylon cord of prescribed lengths required for this procedure shall be seared at both ends to prevent fraying. Refer to table 6-3.

All cord used shall be nylon (MIL-C-5040, Type I).

1. Using a 36-inch piece of nylon cord, tie an overhand knot in each end. Wrap one end of cord two overlapping turns around one end of signal flare (MK-13 MOD 0 or MK-124 MOD 0) and tie with surgeon's knot. Position cord-end overhand knot snugly against surgeon's knot.

Table 6-2. Survival Kit Items (Note 1)

Item Name	Quantity	Reference Number
Cord, (Nylon), Fibrous Type I	50 ft	NAVAIR 13-1-6.5
Signal, (Flare), Smoke and Illumination, MK-13 MOD 0 or MK-124 MOD 0 (Note 2)	2	NAVAIR 13-1-6.5
Sea (Dye) Marker, Fluorescein	2	NAVAIR 13-1-6.5
Sponge, (Bailing), Cellulose Type II, Class 2	1	NAVAIR 13-1-6.5
SRU-31/P Survival Kit, Packet #1 (Medical) (Note 3)	1	NAVAIR 13-1-6.5
SRU-31/P Survival Kit, Packet #2 (General) (Note 3)	1	NAVAIR 13-1-6.5
SRU-31A/P (Note 7)	Optional	NAVAIR 13-1-6.5
Water, Drinking, Canned (Note 4)	1	NAVAIR 13-1-6.5
Water, Drinking, Emergency (Note 6)	3	NAVAIR 13-1-6.5
Opener, Can, Hand	1	NAVAIR 13-1-6.5
Blanket, (Combat) Casualty, (3 oz) (Note 5)	1	NAVAIR 13-1-6.5
Ground/Air Emergency Code Card	1	NAVAIR 13-1-6.5
Envelope, Packing List	2	NAVAIR 13-1-6.5
Beacon Set, Radio	1	NAVAIR 13-1-6.5
Liferaft, Inflatable	1	NAVAIR 13-1-6.1-1

Notes:

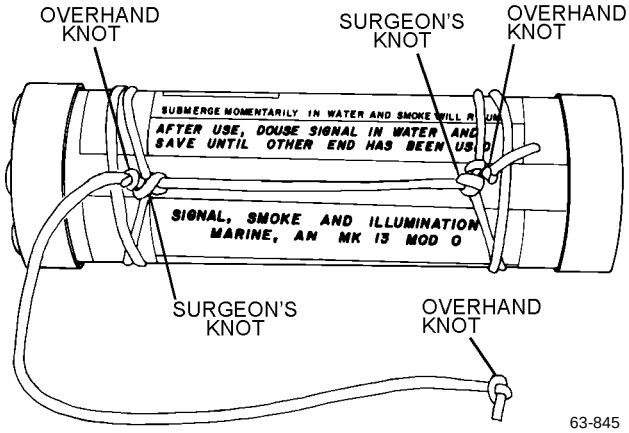
1. The items listed are typical and are considered mandatory for inclusion in the survival kit container. Deviation from the listed items may be required by certain Functional Air Wings (FUNCWINGS), Carrier Air Wings (CVW), COMFAIRS, or Marine Air Wings (MAW). Requests for deviations must be forwarded to and authorized by TYCOMS and with information to Fleet Support Team (FST) at NAVAIR-WARCENACDIV Patuxent River MD via Naval Message. When optional items are substituted, particular attention must be paid to the binding sequence so that physical sizes and binding order of substituted items remain approximately the same. That portion of an item name in parentheses is a common-use name or container size and is not intended for supply requisition purposes.
2. MK-13 MOD 0 shall be used until stocks are depleted. MK-124 MOD 0 will replace MK-13 MOD 0 as stocks become available.
3. SRU-31/P complete kits including Medical Packet (#1) and General Packet (#2) may be ordered; instructions for packing and ordering these kits are found in NAVAIR 13-1-6.5.
4. One additional canned water may be added as optional item.
5. Casualty blanket may be added as optional item.
6. When the supply for emergency canned water has been exhausted, order emergency bagged water in accordance with NAVAIR 13-1-6.5.
7. The selection of SRU-31/P or SRU-31A/P Individual Aircrewmember's Survival Kit will be at the discretion of the TYPE COMMANDER depending on mission requirements, reference NAVAIR 13-1-6.5, Chapter 9, for detailed information.

Table 6-3. Nylon Cord Lengths Required for Binding

Length (Inches)	No. Required
140	1
12 (Note 1)	4
30	2
36	3
40	2
50 (Note 1)	2

Notes: 1. When using bagged water in place of canned emergency water, the number of required 12 inch lengths will be a total of 5 and the required 50 inch lengths will be a total of 1.

2. Route cord to opposite end of flare. Wrap cord two overlapping turns around end of flare and tie with surgeon's knot followed by an overhand knot positioned snugly against surgeon's knot. Cord between end-ties shall be drawn tight.



Step 2 - Para 6-22

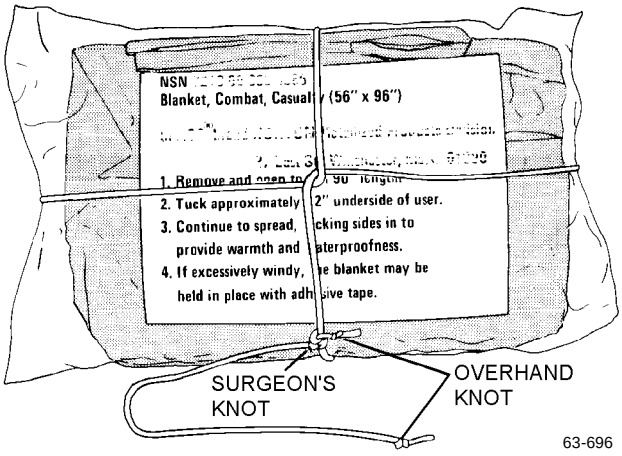
3. Tie other signal flare in the same manner as steps 1 and 2.

4. Using a 12-inch piece of nylon cord, tie an overhand knot near each end. Pass overhand knot through center grommet in dye marker and tie a bowline knot, allowing approximately a 1-inch loop. Bowline knot shall lie snugly against overhand knot.

Step 4 - Para 6-22

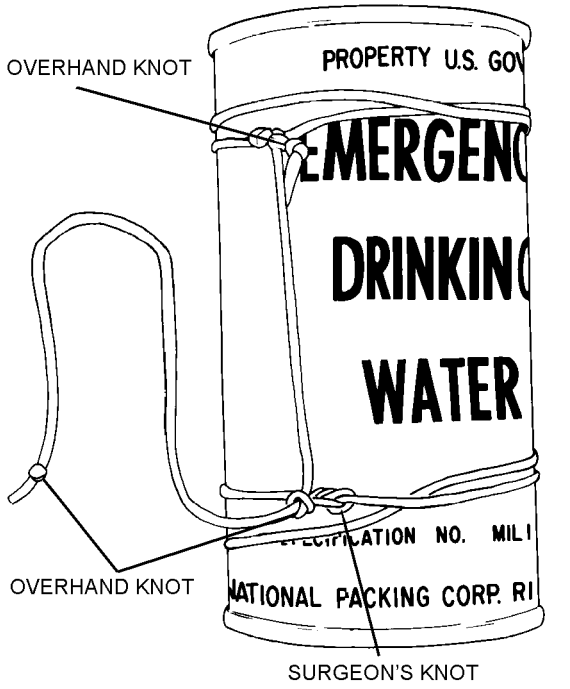
5. Tie second dye marker in the same manner as step 4.

6. If casualty blanket is used, tie an overhand knot near each end of a 30-inch piece of nylon cord. Wrap cord around blanket until cord ends meet, then rotate cords 1/4 turn and wrap cords around opposite sides of blanket. Tie with a surgeon's knot with overhand knot positioned snugly against surgeon's knot.



Step 6 - Para 6-22

7. Using a 50-inch piece of nylon cord, tie an overhand knot near both ends. Wrap one end of cord two overlapping turns around end of canned water and tie with a surgeon's knot. Position cord-end overhand knot snugly against surgeon's knot. Route cord to opposite end of can. Wrap cord two overlapping turns around can and tie with surgeon's knot followed with an overhand knot positioned snugly against surgeon's knot. Cord between end-ties shall be drawn tight.



63-697

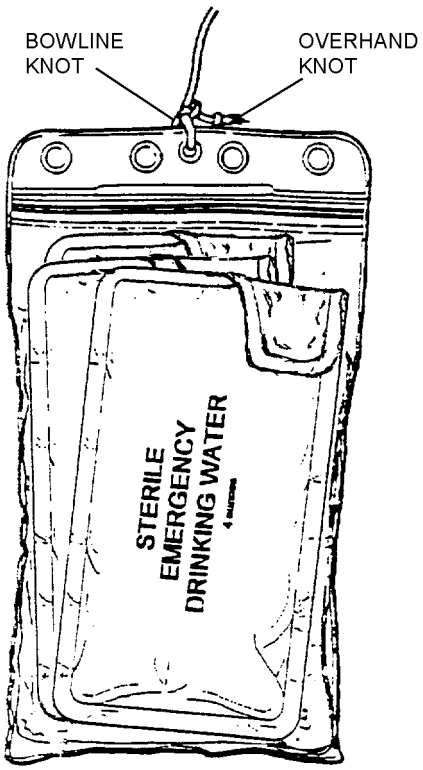
Step 7 - Para 6-22

8. If a second canned water is required, secure in the same manner as step 7.

NOTE

Replacement rate of exhausted canned water shall be in accordance with the NAVAIR 13-1-6.5 manual. Bagged emergency drinking water shall be stowed in the same order as canned emergency water. The bags of water shall be stowed in a flat configuration.

9. Bagged water. Place a maximum of three 4-ounce bagged emergency drinking water flat inside a clear vinyl envelope (MIL-B-117) with pour spout folded down. Bagged water must be able to fit into envelope without disrupting the closure of the sealing slide fastener. Using a 12-inch length of cord, tie an overhand knot on each end and pass knot through center hole in envelope. Secure with bowline knot, allowing an approximate 1-inch loop. Position an overhand knot snugly against the bowline knot. Ensure overhand knot is snug against surgeon's knot.



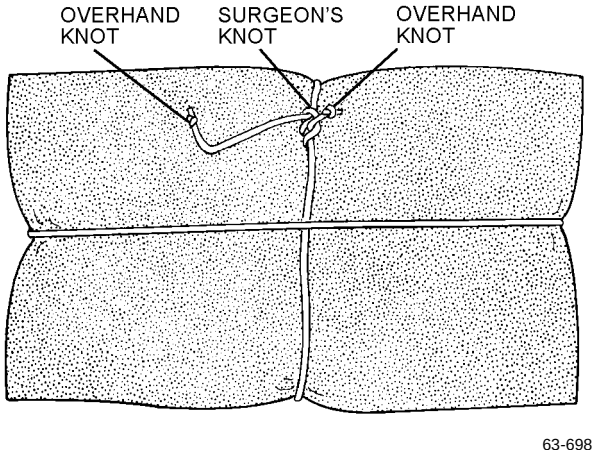
63-22

Step 9 - Para 6-22

NOTE

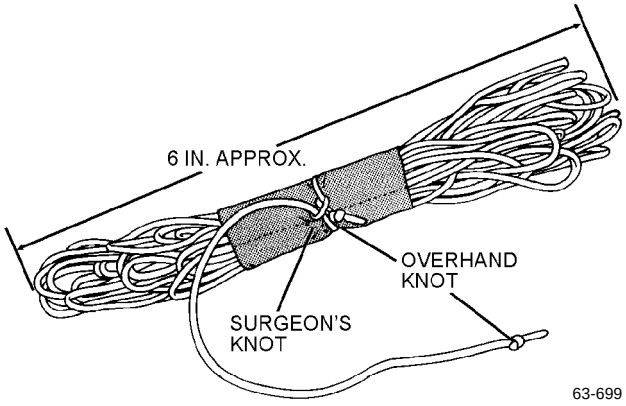
The bailing sponge should be compressed to a minimum thickness by compressing while damp and then allowing to dry in the compressed state before tying.

10. Using a 30-inch length of nylon cord, tie an overhand knot near ends. Wrap cord around sponge until cord ends meet, then rotate cords 1/4 turn and wrap cords around opposite sides of sponge. Tie with a surgeon's knot with cord-end overhand knot positioned snugly against surgeon's knot.



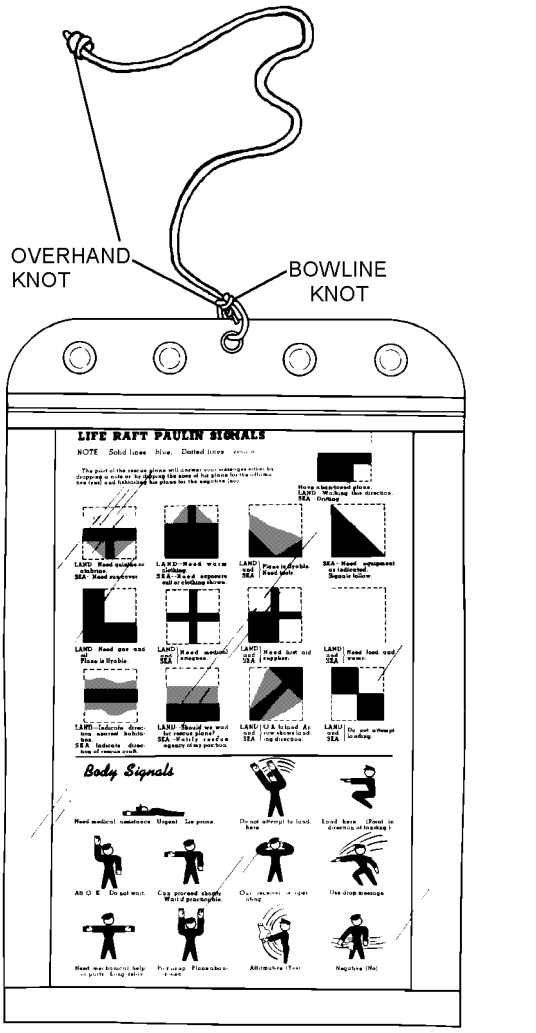
Step 10 - Para 6-22

11. Cut one 2 x 3-inch piece of nylon duck material. Accordion-fold 50-foot length of nylon cord in 6-inch bights, and wrap material around center of folded cord. Using a 12-inch piece of nylon cord, tie an overhand knot near each end and secure one end of cord to center of material with a surgeon's knot. Position cord-end overhand knot snugly against surgeon's knot.



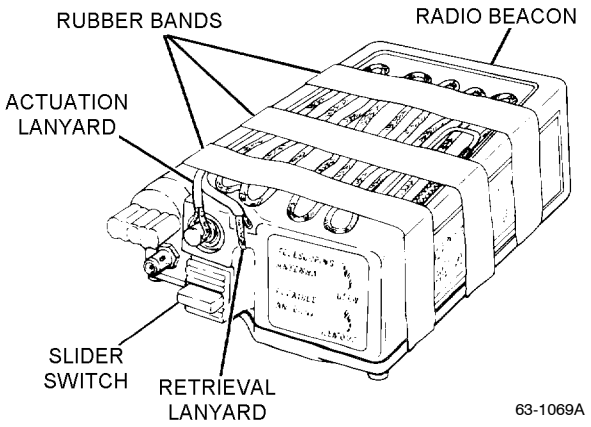
Step 11 - Para 6-22

12. Place Ground/Air Emergency Code Card into clear vinyl plastic envelope (MIL-B-117) and close sealing zipper. Using a 12-inch piece of cord, tie an overhand knot in each end and pass knot through center hole in envelope. Secure with a bowline knot, allowing a 1-inch loop. Position bowline knot and cord-end overhand knot snugly together.



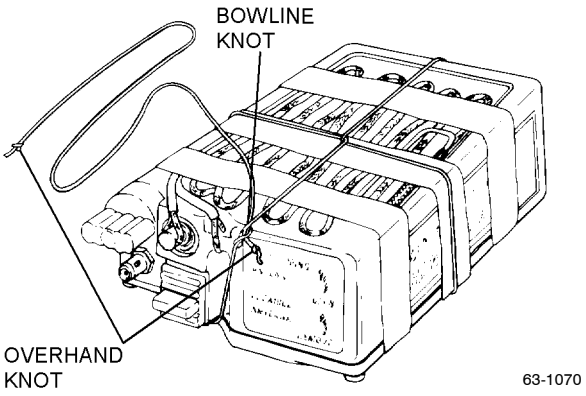
Step 12 - Para 6-22

13. Ensure the retrieval lanyard is attached at both ends with a bowline knot with an overhand knot tied at the tag end. Accordion-fold retrieval and actuation lanyards on top of the beacon and attach with three rubber bands.



Step 13 - Para 6-22

14. Using a 36-inch length of nylon cord, tie an overhand knot at both ends. Wrap cord around side of AN/URT-33 radio beacon until cord ends meet, then rotate cords 1/4 turn and wrap cords around opposite sides of radio beacon. Tie with a surgeon's knot with cord-end overhand knot positioned snugly against surgeon's knot.

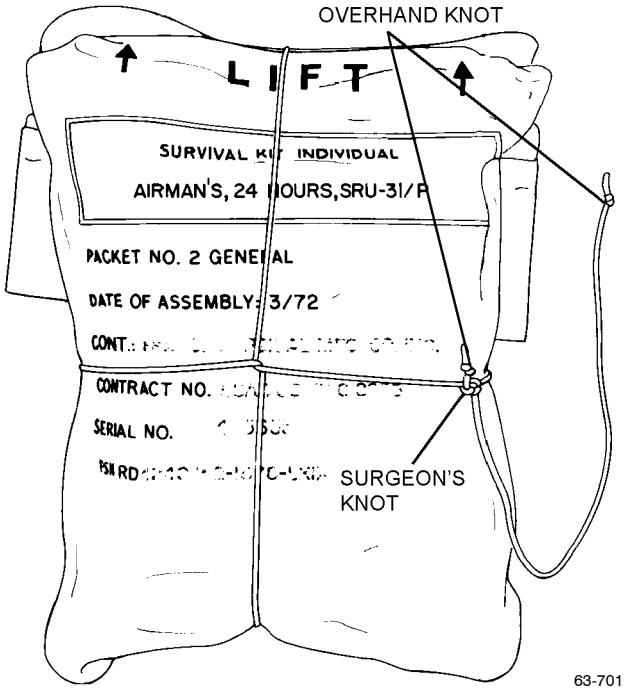


Step 14 - Para 6-22

NOTE

SRU-31/P Packet #1 (Medical) shall be folded approximately in half prior to tying.

15. Using a 40-inch length of nylon cord, tie an overhand knot in both ends. Wrap cord around one packet of SRU-31/P Survival Kit until cord ends meet, then rotate cords 1/4 turn and wrap cords around opposite sides of packet. Tie with a surgeon's knot. The cord-end overhand knot shall be positioned snugly against surgeon's knot.



Step 15 - Para 6-22

16. Secure second SRU-31/P packet in the same manner as step 14, except do not fold packet #2.

17. Ensure survival items are properly tied.

18. Using the 140-inch piece of Type I nylon cord, form a 3/4 to 1-inch overhand loop approximately 12 inches from one end. Continue forming loops every 5 inches until there are enough to accommodate all required survival items. Ensure a minimum of 25 ±1 inches of cord remain after forming the last overhand loop.

19. Tie each item to a loop on the 140-inch nylon cord using a surgeon's knot. Ensure each item's cord-end overhand knot is snugly against surgeon's knot (figure 6-4).

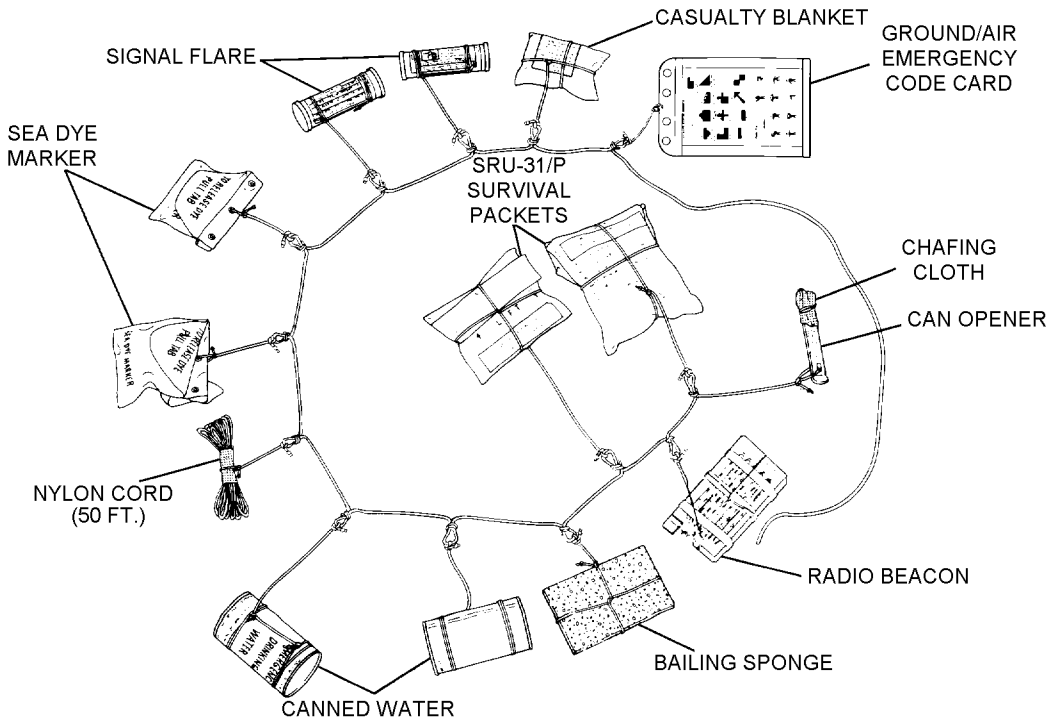


Figure 6-4. Binding Survival Items

CAUTION

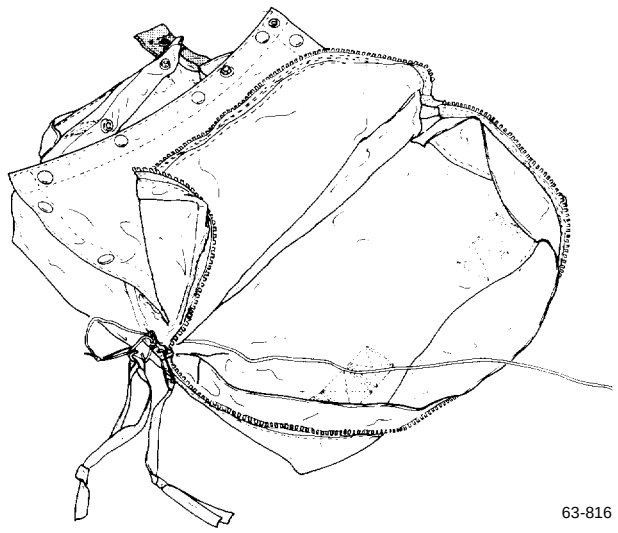
Ensure that pointed end of can opener has adequate chafing cloth to prevent damage to other survival items.

19. Route 12-inch end of 140-inch nylon cord through hole in can opener and secure with 1-inch loop bowline knot followed by an overhand knot positioned snugly against bowline knot. Wrap can opener with chafing cloth secured by a rubber band.

6-23. SURVIVAL EQUIPMENT PACKING. To pack survival equipment in the standard soft pack, proceed as follows:

1. Place combination carrying case and equipment container on table with slide fastener facing packer and the word EQUIPMENT facing up.

2. Open equipment section of container by opening right slide fastener to the left. Route bitter end of 140-inch nylon cord (with attached survival items) through opening at end of slide fastener chain, and secure to left slide fastener tab with a bowline knot (approximately 2-inch loop) and an overhand knot. Knots shall be positioned snugly against each other.



Step 2 - Para 6-23

NOTE

Survival items shall be stowed in a neat and orderly fashion and the items shall be arranged to obtain the flattest possible pack.

The can opener shall be positioned in such a way as to ensure that it cannot damage other survival items.

3. Stow survival items within height and width of equipment section of Combination Carrying Case and Equipment Container.

4. Close equipment section slide fastener.

6-24. LIFERAFT PREPARATION, FOLDING, RIGGING, AND PACKING. To prepare, fold, rig, and pack the LR-1 liferaft in the standard soft pack, proceed as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Thread, Nylon, Type II, Class A, Size 6	V-T-295 NIIN 00-559-5211
As Required	Talc, Technical	MIL-T-50036A

NOTE

All standard soft packs modified by ACC 467 are for use in E-2 series aircraft only.

Unless otherwise indicated, procedures before and after incorporation of ACC 467 are the same for standard soft packs used in E-2 series and C-2A aircraft.

1. Lay raft assembly flat with inside facing upward (step A, figure 6-5).

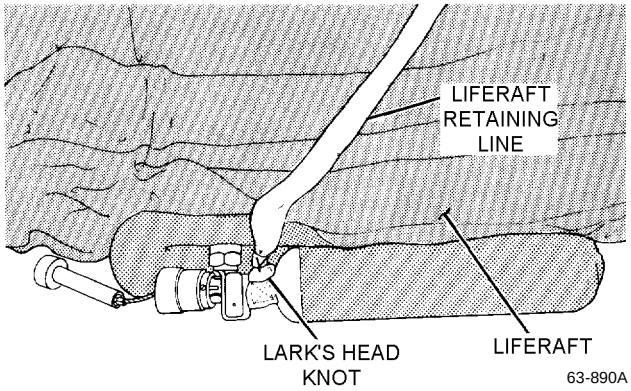
2. Ensure that all trapped air is expelled from raft and oral inflation valve is locked and stowed in pocket prior to folding.

3. Lightly dust entire raft assembly with talc (MIL-T-50036A).

4. Secure sea anchor line in 3-inch bights; fold and stow in pocket (step B, figure 6-5).

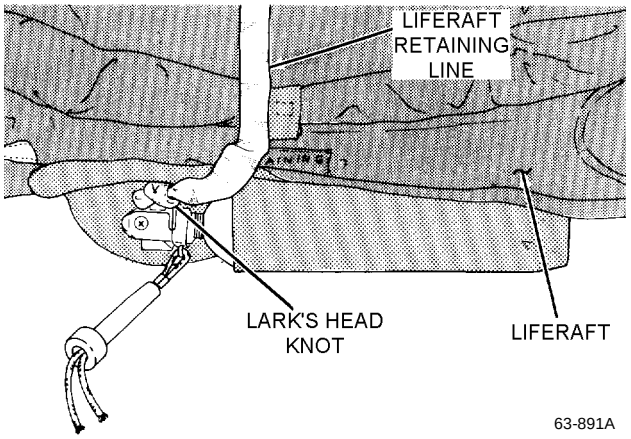
5. Roll and secure weathershield (step C, figure 6-5).

6. (LR-1 with MIL-V-81722, FLU-6/P Inflation Valve) Pass loop end of liferaft retaining line around inflation valve at cylinder neck. Pass end of line with snaphook through loop and pull line tightly, forming a lark's head knot. Tack lark's head knot with two turns of waxed nylon thread, size 6, single. Tie ends with surgeon's knot followed by square knot positioned snugly together.



Step 6 - Para 6-24

7. (LR-1 with MIL-V-25492, Type 2, Design II Inflation Valve) Pass loop end of liferaft retaining line around coupling nut between raft and inflation assembly. Pass end of line with snaphook through loop and pull line tightly, forming a lark's head knot. Tack lark's head knot with two turns of waxed nylon thread, size 6, single. Tie ends with surgeon's knot followed by square knot positioned snugly together.



Step 7 - Para 6-24

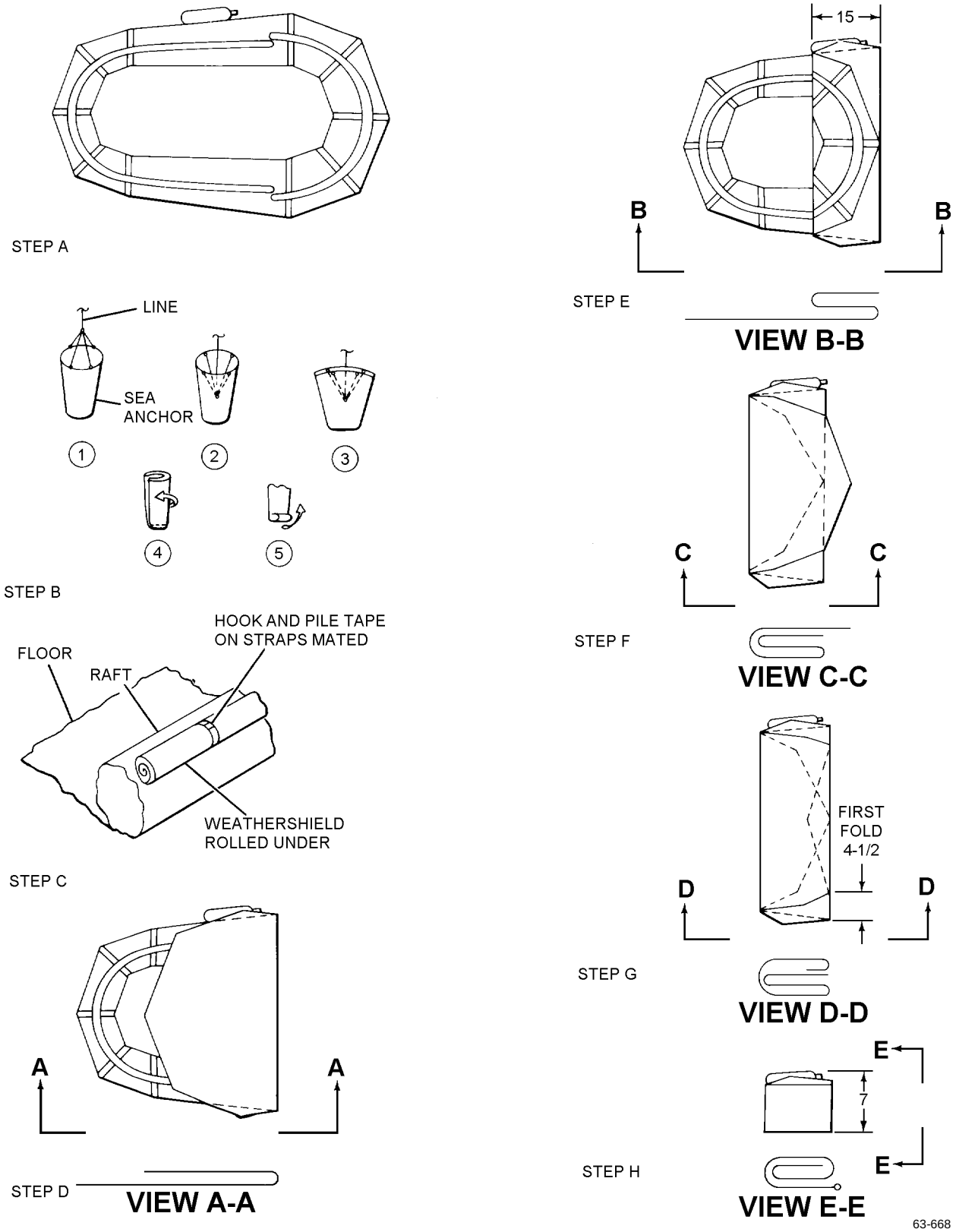


Figure 6-5. Folding Liferaft

8. Fold liferaft.

a. Fold bow of raft over at a point in line with inflation valve of CO_2 cylinder (step D, figure 6-5).

b. Fold bow portion of raft back, forming an accordion fold approximately 15 inches in width (step E, figure 6-5).

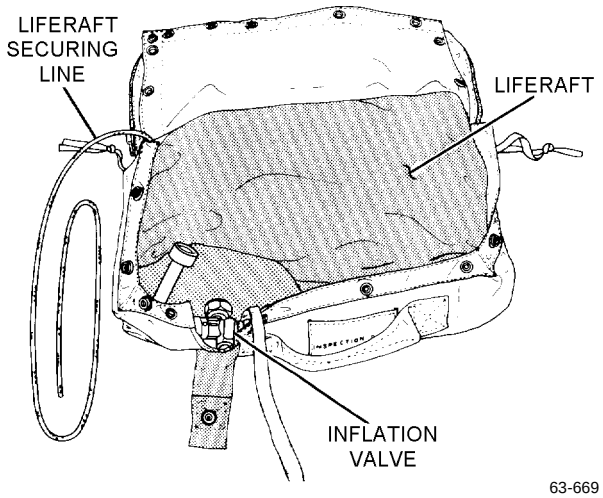
c. Fold stern of raft over on top of previous folds (step F, figure 6-5).

d. Tuck stern of raft under in line with first fold (step G, figure 6-5).

e. Starting at end opposite CO_2 cylinder, form a fold approximately 4 1/2 inches wide, and continue folding raft towards CO_2 cylinder (steps G and H, figure 6-5).

9. Place Combination Carrying Case and Equipment Container on table with raft compartment open and facing packer.

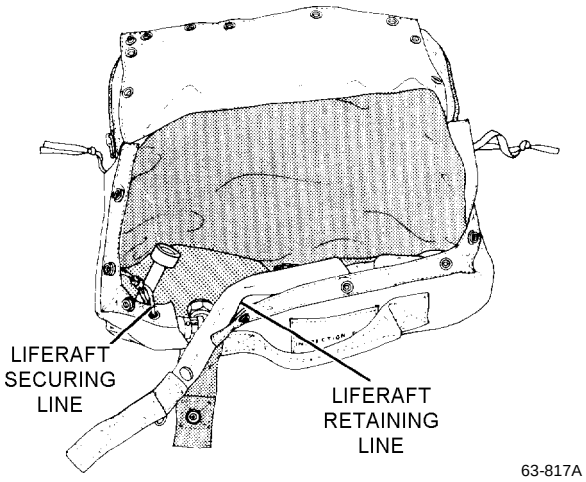
10. Place liferaft into raft compartment so that carbon dioxide cylinder is forward and inflation valve faces left side of container.



Step 10 - Para 6-24

11. (Without ACC 467) Accordion-fold liferaft retaining line across top of cylinder. Snaphook shall exit at inflation valve side of container.

12. Tie liferaft securing line to eyelet on lower flap of combination carrying case and equipment container. Secure with a bowline knot followed by an overhand knot.



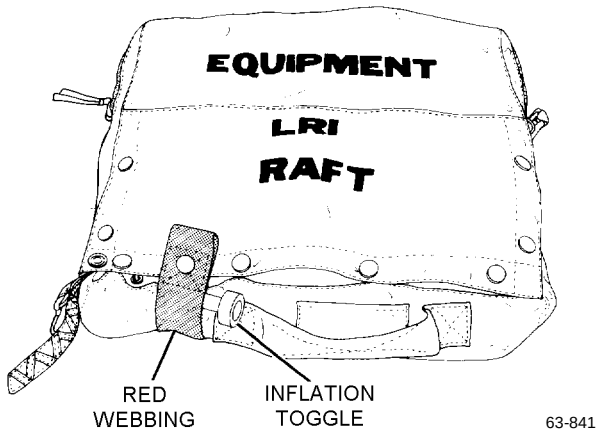
Step 12 - Para 6-24

WARNING

Ensure that liferaft retaining line is not wrapped around or entangled with liferaft inflation pull toggle.

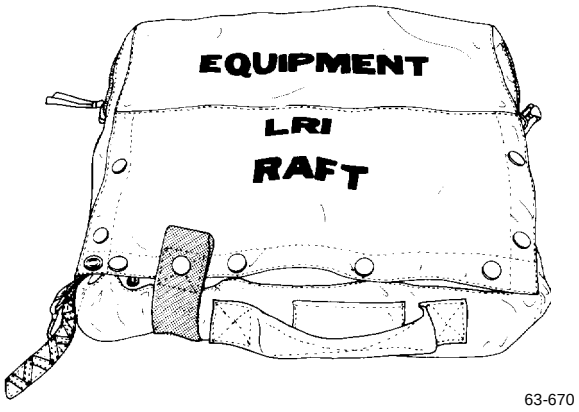
When routing the liferaft retaining line ensure that it will not entangle with liferaft inflation pull toggle when being extracted from the soft pack.

13. (Without ACC 467) (LR-1 with MIL-V-25492, Type 2, Design II Inflation Valve) Snap closed raft compartment of combination carrying case and equipment container. Inflation toggle shall protrude through opening in case at red webbing. Secure snap fastener on liferaft retaining line to mating fastener on container.



Step 13 - Para 6-24

14. (Without ACC 467) (LR-1 with MIL-V-81722, FLU-6/P Inflation Valve) Stow liferaft inflation toggle in container under carbon dioxide cylinder. Snap closed raft compartment of combination carrying case and equipment container. Secure snap fastener on liferaft retaining line to mating fastener on container.

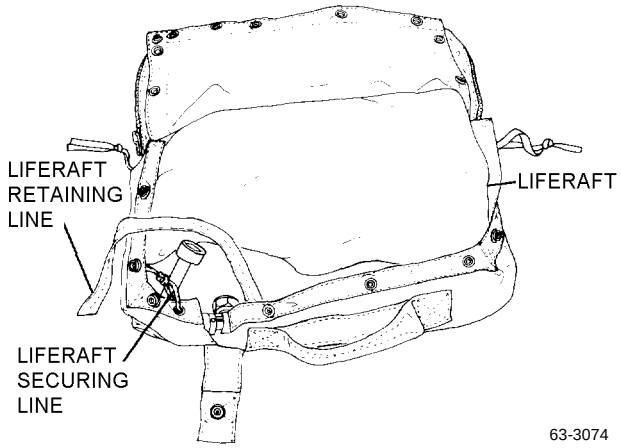


Step 14 - Para 6-24

WARNING

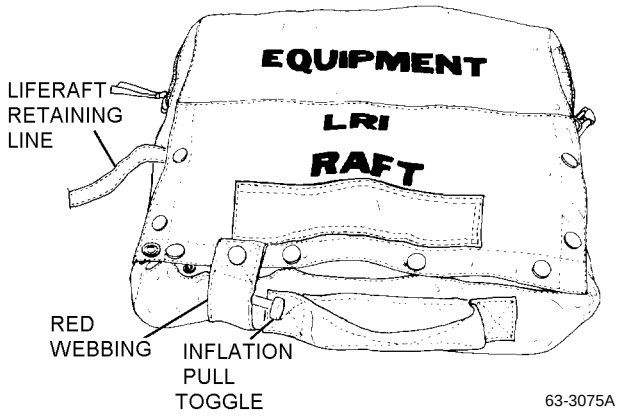
Ensure liferaft retaining line is not wrapped around or entangled with inflation valve pull toggle.

15. (Standard soft pack after ACC 467) Route liferaft retaining line from point of raft attachment over left corner of folded raft and exit carrying case between two closure snap fasteners on left side of carrying case.



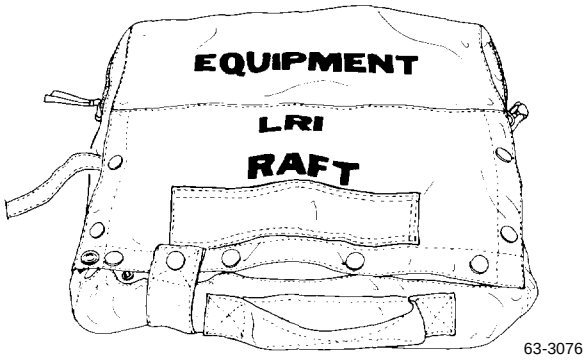
Step 15 - Para 6-24

16. (Standard soft pack after ACC 467) Close cover on LR-1 liferaft compartment. Secure closure snap fasteners ensuring that liferaft retaining line exits carrying case between two closure snap fasteners on left side of carrying case. If LR-1 liferaft is equipped with inflation valve MIL-V-25492, Type 2, Design II, the inflation valve pull toggle shall protrude through opening in carrying case at red webbing. Secure red webbing snap fastener to mating fastener on carrying case cover.



Step 16 - Para 6-24

17. (Standard soft pack after ACC 467) If LR-1 liferaft is equipped with MIL- V-81722, FLU-6/P inflation valve, stow liferaft inflation valve pull toggle inside carrying case under carbon dioxide cylinder. Close cover on LR-1 liferaft compartment. Secure closure snap fasteners ensuring that liferaft retaining line exits carrying case between two snap fasteners on left side of carrying case. Secure red webbing snap fastener to mating fastener on carrying case cover.

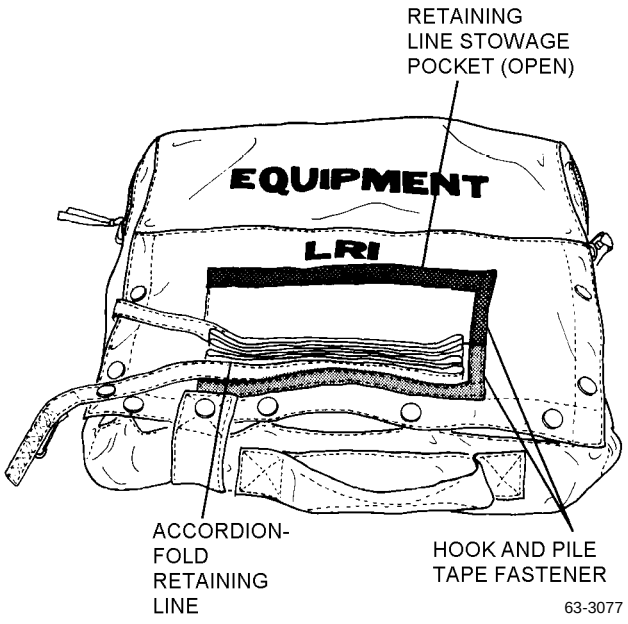


Step 17 - Para 6-24

WARNING

Ensure that there is no slack in liferaft retaining line between point where line is attached to raft and retaining line stowage pocket on carrying case cover.

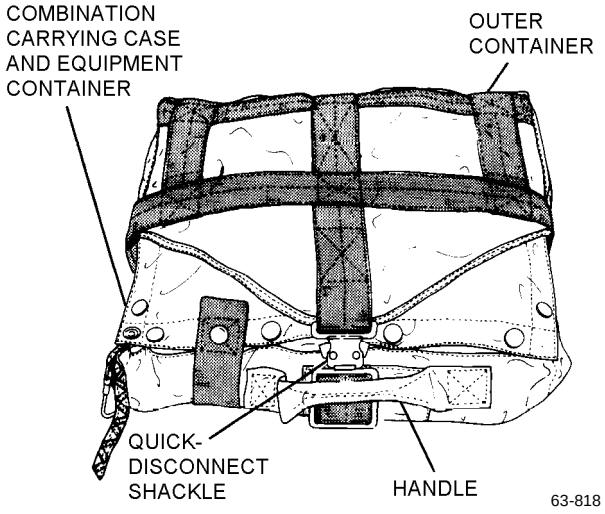
18. (Standard soft pack after ACC 467) Disengage hook and pile tape fastener and open locally fabricated retaining line stowage pocket (see paragraph 6-53 for fabrication instructions). Accordion-fold retaining line from back to front within the confines of the stowage pocket. Leave only enough of snap-hook end of line free so snap fastener on retaining line will mate with fastener on left edge of carrying case cover.



Step 18 - Para 6-24

19. (Standard soft pack after ACC 467) Close retaining line stowage pocket using hook and pile tape fastener. Secure retaining line snap fastener to mating fastener on carrying case cover.

20. (All standard soft pack) Insert combination carrying case and equipment container into outer container and secure quick-disconnect shackle. Shackle shall be under handle.

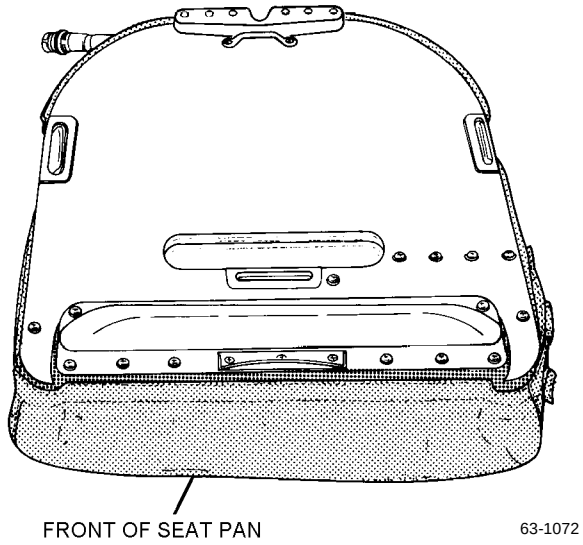


Step 20 - Para 6-24
(Before ACC467 Shown)

21. Make necessary entries on appropriate form in accordance with OPNAVINST 4790.2 Series.

6-25. ATTACHMENT OF SEAT PAN TO SOFT PACK. To attach seat pan to the soft pack container, proceed as follows:

1. Place seat pan upside down on table.



Step 1 - Para 6-25

2. Place soft pack and container top side up with front of soft pack facing front of seat (figure 6-6).

3. Reeve retaining strap from front of soft pack through front slot in seat pan, then through footman bracket on rear of seat pan (figure 6-6).

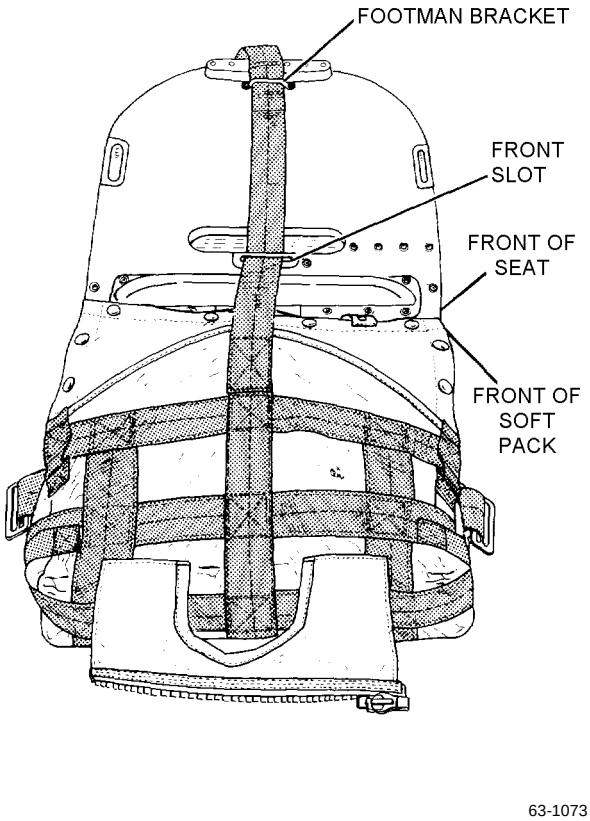
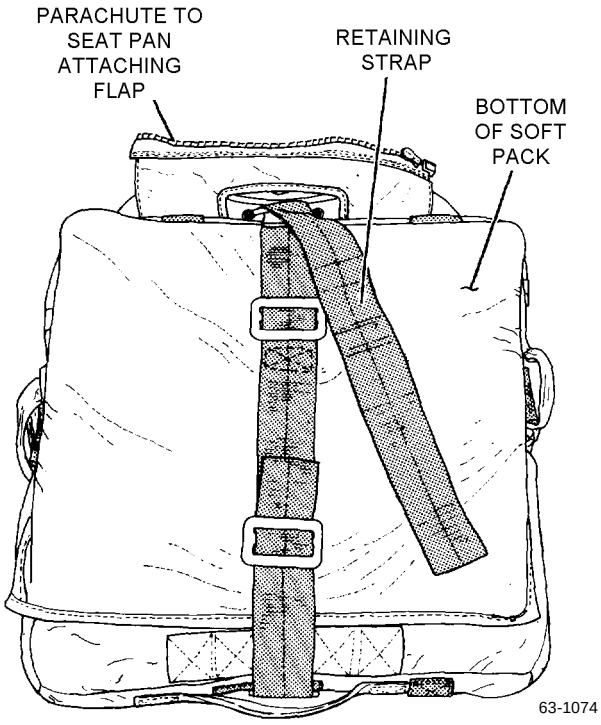


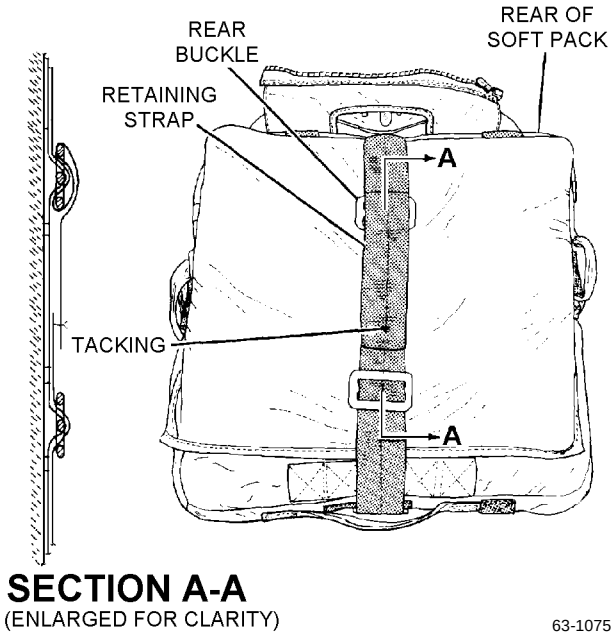
Figure 6-6. Reeving Retaining Strap

4. Rotate soft pack over seat pan, then run strap around to bottom of soft pack container going through opening in parachute to seat pan attaching flap.



Step 4 - Para 6-25

5. Reeve strap through rear buckle of soft pack container. Tack with two turns of waxed, size 6 nylon thread (V-T-295). Tie ends with a surgeon's knot followed by a square knot. Tack through strap only.



Step 5 - Para 6-25

Section 6-4. Turnaround/Daily/Preflight/Postflight/Transfer/Special/ Conditional Inspection

6-26. GENERAL.

6-27. The Turnaround, Daily, Preflight, Postflight, or Transfer Inspections consist of a visual type inspection performed in conjunction with the aircraft inspection requirements for the aircraft in which the seat pan/soft pack is installed.

6-28. Conditional Inspection is an unscheduled inspection required as the result of a specific situation or set of conditions, e.g., hard landing inspections or any inspection directed by higher authority that is not ordered in a technical directive.

6-29. The Special (7/14 day, etc.) Inspection shall be performed on inservice seat pans/soft packs installed in aircraft and in ready room issue. The Daily Inspection shall be included when performing the Special (7/14 day, etc.) Inspection. This inspection shall be performed by Organizational Level maintenance PR personnel or by aircrew/line personnel who have been found to be qualified by a PR shop supervisor. This inspection shall be conducted only under adequate lighting conditions. The seat pans/soft packs assigned to VA type aircraft shall be inspected every 7 days. Upon completion of inspections, the inspector's full name and the current date shall be recorded on the Preflight/Daily/Inflight/Postflight/Maintenance Record Card. To perform the inspection, proceed as follows:

NOTE

If any damage or discrepancy is found that cannot be corrected by Organizational Level maintenance, the survival kit assembly shall be forwarded to the Intermediate Maintenance Activity (IMA).

1. Inspect cushion for secure attachment, rips, tears, and loose or frayed stitching.

2. Inspect oxygen gage for FULL indication.

3. Inspect manual oxygen release for secure attachment.

4. Ensure that tag assembly, installed by manufacturer for shipping purposes, has been removed and discarded prior to placing emergency oxygen cylinder assembly in service.

5. Inspect quick-disconnect for secure attachment.

6. Inspect hoses for cracks and deterioration.

7. Inspect soft pack for attachment to seat pan.

8. Inspect harness assemblies for loose or frayed stitching, webbing, and cracked or broken hardware.

9. Inspect soft pack fabric for cuts, tears, deterioration, and abrasion.

10. Inspect soft pack seams for proper adhesion or stitching.

11. Inspect soft pack straps and handles for security and wear.

12. Inspect any other parts for wear, damage, and security.

13. Inspect container and/or case for stains, dirt, and general condition.

6-30. If discrepancies are found or suspected Maintenance Control shall be notified.

6-31. Seat pans/soft packs which do not pass inspection and cannot be repaired in the aircraft shall be removed in accordance with applicable aircraft manual and replaced with a Ready For Issue (RFI) seat pans/soft packs. Non-RFI seat pans/soft packs shall be forwarded to the nearest maintenance activity having repair capability for corrective action.

Section 6-5. Acceptance/Phased/SDLM/PDM Inspection

6-32. GENERAL.

6-33. An acceptance inspection shall be performed on a survival kit when it is placed into service or at the time a reporting custodian accepts a newly assigned airfcraft from any source and on return of an aircraft from SDLM/PDM or other major D-level rework. The Phased/SDLM/PDM inspection cycle of the survival kit shall be 448 days. In no case, however, shall the phased interval exceed 448 days. The battery test inspection cycle for the AN/URT-33A radio beacon is dependent on the type of battery installed. Refer to NAVAIR 16-30URT33-1 for battery test inspection cycles and requirements. For acceptance inspection purposes, verification of pyrotechnics and configuration is accomplished by visual record examination only. Disassembly beyond the daily inspection requirements of applicable publications is not required. Activities may elect to increase the depth of the inspection if equipment condition, visual external inspection, or record examination indicates such action is warranted.

6-34. VISUAL INSPECTION. This inspection shall be performed prior to the leak check of the seat pan/ soft pack.

1. Visually check seat pan for following:

a. Inspect cushion for secure attachment, rips, tears, and loose or frayed stitching.

b. Inspect manual oxygen release for condition and security of attachment.

c. Inspect oxygen gage for FULL indication.

d. Ensure that tag assembly, installed by manufacturer for shipping purposes, has been removed and discarded prior to placing emergency oxygen cylinder assembly in service.

e. Inspect snap fasteners for security and corrosion.

f. Inspect quick-disconnect for secure attachment.

g. Inspect hoses for cracks or deterioration.

2. Visually check the soft pack survival kit for following:

a. Inspect fabric for cuts, tears, deterioration, and abrasion.

b. Inspect seams for proper adhesion or stitching.

c. Inspect straps and handles for security and wear.

d. Inspect any other parts for wear, damage, and security.

e. Inspect all hardware for security of attachment, corrosion, damage, wear and, if applicable, ease of operation.

f. Inspect container case for stains, dirt, proper markings, and general condition.

g. Inspect oxygen hose for cracks or deterioration per Chapter 4 of this manual and replace as required.

h. Inspect oxygen gage for full indication.

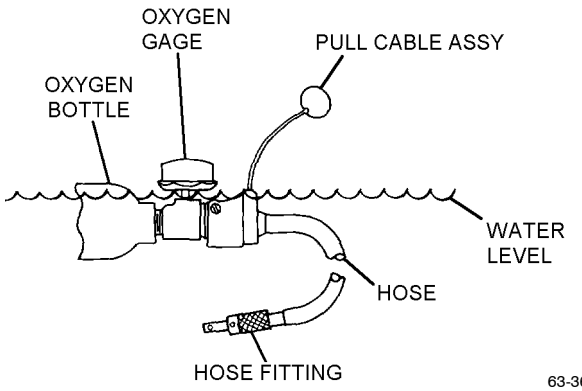
6-35. LEAK CHECK. This check shall be performed anytime a kit is placed in service, after any adjustment procedures, or when equipment condition, visual external inspection, or record examination indicates such action is warranted to determine the condition of the kit. To perform a leak check proceed as follows:

CAUTION

Do not submerge oxygen gage or pull cable assembly.

Discontinue leak test if seat pan fails to pass any steps of test procedures. Repair malfunction before continuing procedures or damage to seat pan may result. After repair, the entire test procedure shall be performed.

1. Charge oxygen cylinder to 1800 to 2000 psi and submerge in water for at least 5 minutes. A release of bubbles from hose or valve after 1 minute is not allowed.



Step 1 - Para 6-35

2. Dry assembly with dry, clean compressed air.

6-36. PURGING AND CHARGING EMERGENCY OXYGEN SYSTEM. To purge and charge the emergency oxygen cylinder proceed as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Oxygen, Aviator's Breathing, Liquid and Gas	MIL-O-27210
1	Nipple, Break Off, Emergency Oxygen Cylinder Valve	MS21965-1
1	O-ring	186A102 (CAGE 20846)

WARNING

Servicing the emergency oxygen system is accomplished only after removal of the personnel parachute and seat pan from the aircraft.

Since maintenance procedures require use and release of oxygen, ensure maintenance area is clean, dust and grease/oil-free. Use only grease/oil-free tools and equipment.

NOTE

Index numbers, which appear in parentheses in the following steps, pertain to figure 6-8 unless otherwise noted.

1. If seat pan assembly has not been removed from aircraft, remove personnel parachute and seat pan in accordance with applicable maintenance manual.

2. Remove four screws (4) holding pull cable assembly housing (2 or 3) in place. Slide pull cable assemble along hose so that it is well out of way.

3. Unscrew bushing (6) from valve assembly (9) and withdraw hose, break-off nipple (7), and bushing from valve body.

4. Remove fractured break-off nipple from hose, ensuring that both pieces are removed if nipple has been separated at fracture.

5. Push a new break-off nipple into end of hose until hose end contacts flanged face of break-off nipple.

6. Grasp hose just above bushing and work bushing down around hose until end of bushing contacts flanged face of break-off nipple.

7. Invert assembly and remove oxygen flow controller (11).

8. Examine interior of valve assembly (9). If cleaning is necessary, blow out with aviator's breathing oxygen from supply cylinder.

9. Reinstall oxygen flow controller in valve assembly.

10. Reinstall assembly of bushing, hose, and break-off nipple in valve assembly. Tighten only until all parts are snugged together. Do not overtighten.

11. Connect emergency oxygen cylinder bushing assembly (12) to a supply cylinder of aviator's breathing oxygen by using a suitable charging adapter. Turn bushing (6) 1/4 turn counterclockwise.

12. Open oxygen supply cylinder valve slightly, allowing oxygen to flow into emergency oxygen cylinder until pressure gage (10) shows a low pressure as indicated by pointer movement of not more than 1/8 inch. Close supply cylinder valve.

13. Loosen nut at inlet end of charging adapter, permitting oxygen to escape. Tighten nut.

14. Repeat steps 12 and 13 two times.

WARNING

Observe filling stages as rapid application of oxygen pressure creates heat which may result in fire or explosion.

Allow no less than 3 minutes for each filling stage and 2 minute intervals for cooling between stages.

NOTE

If kit is to be stored, the emergency oxygen bottle shall be depleted or filled to 200 PSI (when needle on gage bisects E on refill). For shipping, fill or deplete to 25 PSI using the gage on the oxygen refill cylinder.

15. Charge emergency oxygen system in stages in accordance with table 6-4 until pressure gage indicates correct pressure for existing ambient temperature (table 6-5).

16. When charging is completed, tighten bushing (6) to 15 ft-lbs.

17. Remove charging adapter from bushing assembly (12) and reinstall cap and seal assembly (11).

18. Perform leak check in accordance with paragraph 6-35.

19. If the personnel parachute and seat pan assembly were removed in step 1, reinstall using applicable maintenance manual.

Table 6-4. Charging Stages

Stage	PSI
1	500
2	1000
3	1500
4	1800
5	2000

Table 6-5. Ambient Air Temperature Vs Charging Pressures

Ambient Air Temperature		Charging Pressure
°F	°C	PSI
0	-18	1550-1750
10	-12	1600-1775
20	-7	1625-1800
30	-1	1675-1850
40	5	1700-1875
50	10	1725-1925
60	16	1775-1975
70	21	1800-2000
80	27	1825-2050
90	32	1875-2075
100	38	1900-2125
110	43	1925-2150
120	49	1975-2200
130	54	2000-2225

Section 6-6. Maintenance

6-37. GENERAL.

WARNING

Keep working area clean and free of oil, grease, and dirt. Do not attempt to perform any component removal with the oxygen system pressurized.

6-38. This section contains procedures for troubleshooting, disassembly, cleaning, inspection of disassembled parts, repair or replacement of parts, assembly, and adjustment. Disassemble only to extent required to perform task. Work shall be performed in a clean, dust and grease-free area.

6-39. TROUBLESHOOTING.

6-40. Where troubles or operating malfunctions are encountered, locate probable cause and remedy using table 6-6.

6-41. DISASSEMBLY.

6-42. Disassemble the seat pans using the key index numbers assigned to figures 6-7 and 6-8 as a reference.

NOTE

Discard all O-rings, seals, cotter pins, and Teflon sealing tape removed from oxygen connections during disassembly. Discard any threaded inserts, rivets, rubber pads, seals, molding, or hook and pile fastener tape removed during disassembly of the seat pans.

6-43. CLEANING.

6-44. To clean the disassembled oxygen and non-oxygen components of the kit (except for cushions and fabric components) refer to NAVAIR 13-1-6.4-1.

6-45. CLEANING CUSHIONS AND FABRIC COMPONENTS. Clean cushions and all fabric components as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Cleaning Compound, Aircraft Surface, Alkaline Waterbase	MIL-C-25769
As Required	Detergent, General Purpose	MIL-D-16791
As Required	Talc, Technical	MIL-T-50036A

NOTE

If using cleaning compound (MIL-C-25769), combine one part compound to three parts water. If using general purpose detergent, follow directions on container.

1. Prepare detergent or cleaning compound (MIL-C-25769) solution.

Table 6-6. Troubleshooting

Trouble	Probable Cause	Remedy
Low or zero indication on pressure gage.	Oxygen bottle empty.	Charge bottle.
	Gage defective.	Replace gage.
	Components leaking.	Tighten connections or replace.
Emergency oxygen does not actuate when manual oxygen release or emergency release is pulled.	Cable broken.	Replace cable.
	Cable not connected to yoke.	Connect cable to yoke.

2. Apply solution to soiled area with spray or sponge.

3. Allow solution to remain on surface for a few minutes, then scrub with soft brush or cloth.

4. Rinse surface thoroughly with water; wipe with cloth or sponge.

NOTE

Repeat steps 1 through 4 until material is clean.

5. Repeat step 4 until material is free from all solution.

6. Allow material to dry thoroughly.

7. (Soft pack survival kits) Dust interior surfaces with light coating of talc.

6-46. INSPECTION.

6-47. INSPECTION OF DISASSEMBLED PARTS. Inspect the disassembled parts of the seat pan for damage, distortion, corrosion, and other damage in accordance with table 6-7. Inspect soft pack container markings as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Ink, Marking, Laundry, Black	TT-I-542

1. Compare markings on container with markings listed in table 6-8.

2. Paint over incorrect markings using black ink.

3. Add correct marking as close as possible to specified location using black ink.

Table 6-7. Inspection

Component	Task
Fabric Cover	Check for rips, tears, and loose or frayed stitching.
	Check slide fastener for security of attachment and trouble-free operation.
	Check for security of snap fasteners.
Oxygen Bottle	Inspect end fitting for thread damage.
	Check bottle for bulges, cracks, dents, nicks, gouges, and scratches which penetrate metal. Carefully inspect areas adjacent to welds.
Manual Oxygen Release	Check ball for security of attachment.
	Check cable for broken or frayed strands.
	Check for proper routing of cable.
Oxygen Gage	Check for cracked or missing glass, bent or broken needle and stop, or jammed needle.
Survival Equipment	Inspect in accordance with NAVAIR 13-1-6.5.

Table 6-8. Soft Pack Case/Container Markings (Note 1)

Case/Container	Marking	Location	Letter Height (Inch)
Standard Soft Pack Outer Container	STANDARD SOFT PACK OUTER CONTAINER	Main panel on either side of adjustable strap.	7/8
Combination Carrying Case and Equipment Container	EQUIPMENT	Upper side of equipment compartment	1
	LIFERAFT	Cover flap of raft compartment	1
Container	EQUIPMENT	Main panel	1
	RSSK OR HSSP	Main panel	1/2

Notes: 1. All markings shall be stamped or stenciled with waterproof black ink. All words enclosed by brackets, in the column headed Marking, shall not be stenciled on the equipment; they are to be regarded as instructions only.

6-48. REPAIR AND REPLACEMENT.

6-49. Repair or replace parts of survival kit assembly using following guidelines:

1. Repair of seat pan shall be limited to sewing of loose or open seams, broken stitches, and small rips or tears.

2. Replace all individual components that fail to pass inspection except where a repair procedure is indicated. Refer to source code listing (SM&R Code) in the numerical index of the Illustrated Parts Breakdown to aid in determining replaceable components.

Section 6-7. Fabrication

6-50. GENERAL.

6-51. This section contains instructions for fabrication of tools and components that can be manufactured by local activities.

Materials Required

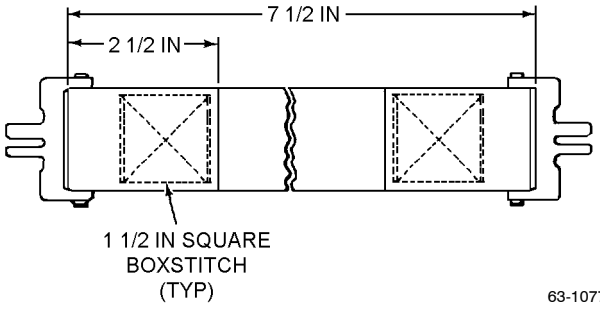
Quantity	Description	Reference Number
2	Release Assembly Lapbelt Fitting	015-11366-1 (CAGE 99449)
24 Inches	Webbing, Nylon, Type XXVII, 1-23/32 inches wide	MIL-W-4088 NIIN 00-530-1489
As Required	Thread, Nylon, Type II, Class A, Size 6	V-T-295 NIIN 00-559-5211

6-52. BRAKE RIDER'S STRAP. To fabricate a brake rider's strap proceed as follows:

1. Cut a piece of nylon webbing 24 inches in length.

2. Sear exposed ends of webbing.

3. Secure fittings with 1 1/2 inch square box-stitch. All stitching shall be ASTM-D-6193, Type 301, 4 to 6 stitches per inch, and backstitch 1/2 inch minimum.



Step 3 - Para 6-56

6-53. (E-2 SERIES AIRCRAFT ONLY) LIFERAFT RETAINING LINE STOWAGE POCKET FABRICATION AND INSTALLATION. To fabricate and install liferaft retaining line on standard soft pack, proceed as follows:

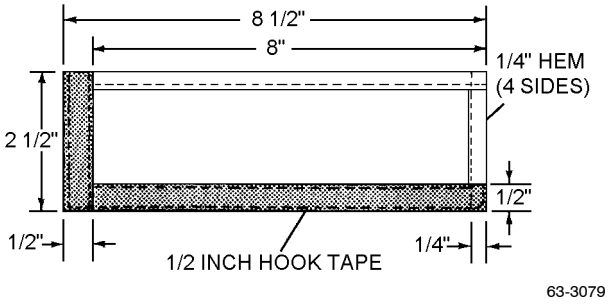
Materials Required

Quantity	Description	Reference Number
As Required	Cloth, Coated	MIL-C-19002 NIIN 00-935-1759 (CAGE 81349)
As Required	Tape, Fastener, Hook	MIL-F-21840 NIIN 00-926-4931 (CAGE 81349)
As Required	Tape, Fastener, Pile	MIL-F-21840 NIIN 00-926-4930 (CAGE 81349)
1	Eyelet, Metallic	MS27980-8B NIIN 01-023-3843 NIIN 00-276-4978 (CAGE 96906)
1	Stud, Snap	MS27980-7B NIIN 00-842-1879 NIIN 00-276-4934
As Required	Thread, Nylon Type II, Class A, Size E	V-F-295 NIIN 00-244-0609

NOTE

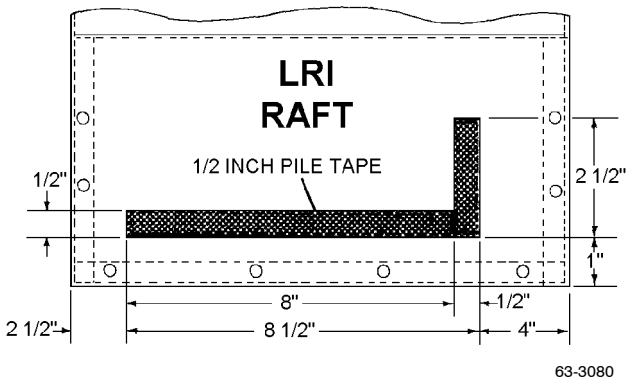
All stitching shall be ASTM-D-6193, Type 301, 8 to 10 stitches per inch, backstitched 1/2 inch minimum using size E nylon thread.

1. Measure and cut one piece of coated cloth 9 inches long by 3 inches wide. Fold edges in 1/4 inch and stitch in place on all four sides. Apply 1/2 inch wide hook tape along two adjoining sides of the underside of liferaft retaining line pocket pattern. Stitch each adjoining strip of tape along all edges.



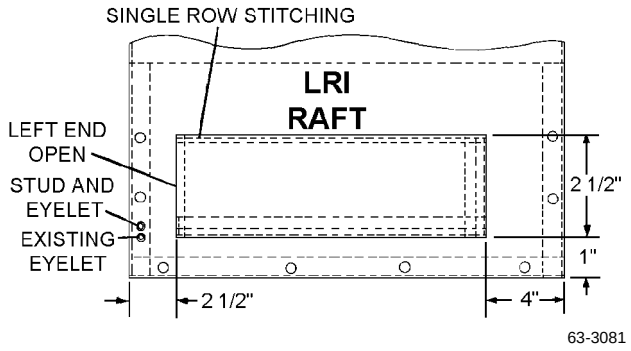
Step 1 - Para 6-57

2. Apply 1/2 inch wide pile tape to outside of carrying case raft compartment cover using dimensions indicated. Stitch each adjoining strip of tape along all edges.



Step 2 - Para 6-57

3. Carefully match hook and pile tape on pocket pattern and carrying case cover. Sew pocket to top of cover using single row of stitches along trailing edge of pocket. Leave left end of pocket open.



Step 3 - Para 6-57

4. Install stud and eyelet portion of snap fastener approximately one inch from leading edge of cover and 1/2 inch from left edge.

NOTE

Position of existing retaining line snap fastener eyelet and stud may cause slight adjustment to proposed position of new stud and eyelet.

Section 6-8. Illustrated Parts Breakdown

6-54. GENERAL.

6-55. This section lists and illustrates the assemblies and detail parts of the ventilated seat pan manufactured by the Grumman Corporation (CAGE 26512).

6-56. The Illustrated Parts Breakdown should be used during maintenance when requisitioning and identifying parts.

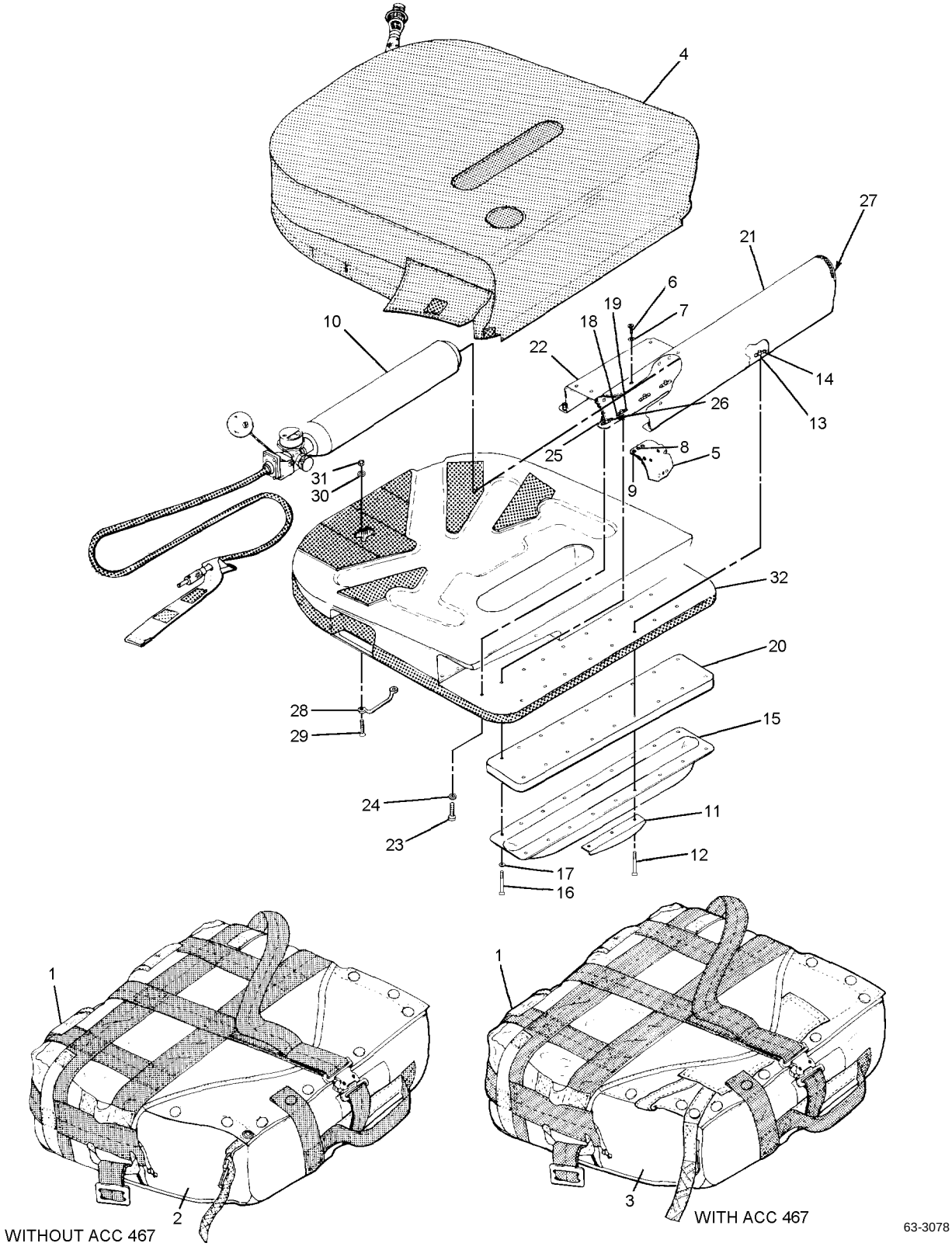
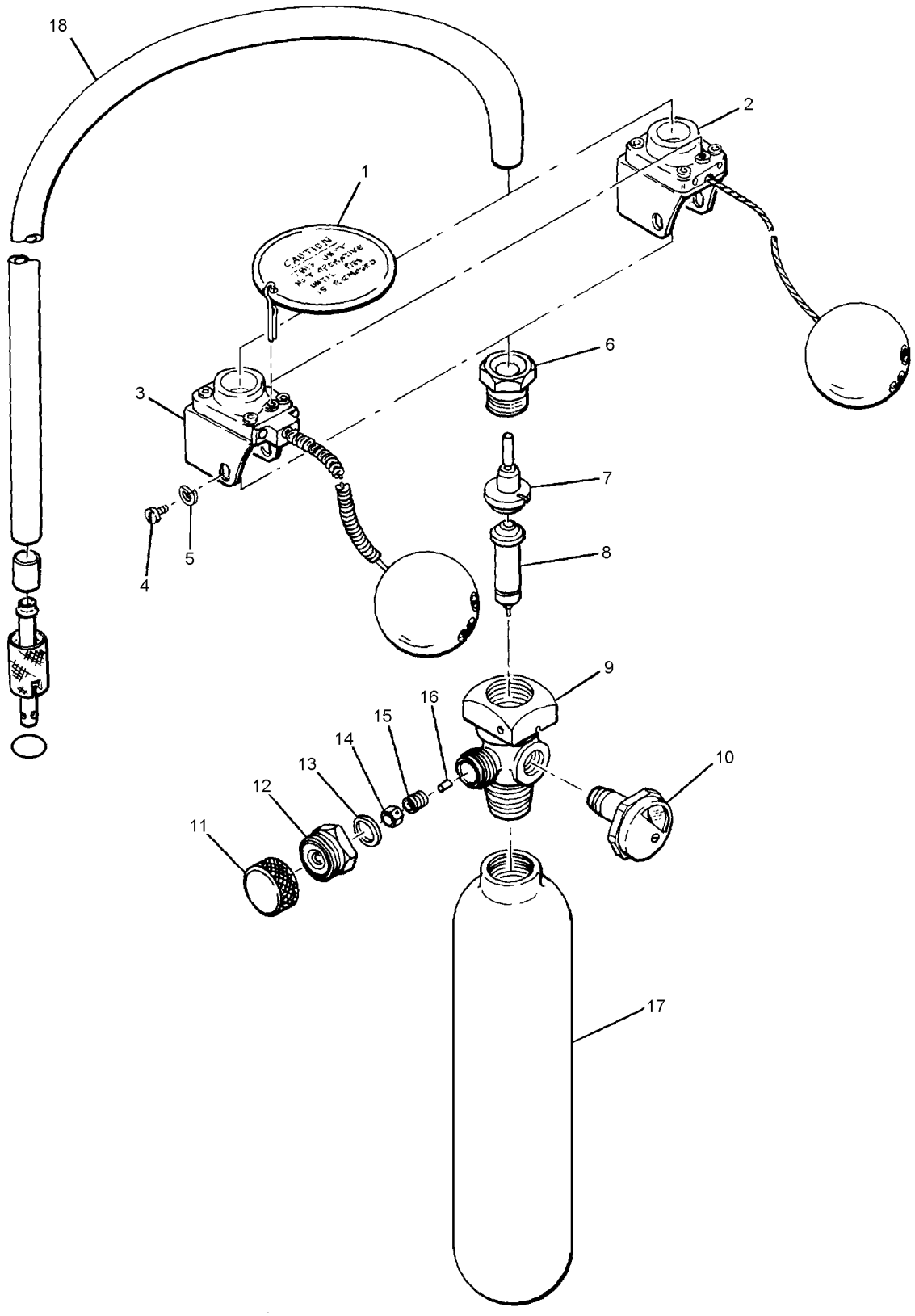


Figure 6-7. Ventilated Seat Pan and Standard Soft Pack Assembly

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
6-7	123AB11592-1	SEAT PAN ASSEMBLY, Ventilated	REF	
-1	68A77D2-1	. CONTAINER, Outer, standard soft pack, (30003)	1	
-2	68A77H3-1	. . LIFERAFT AND EQUIPMENT CONTAINER, LR-1, (30003) (Without ACC 467)	1	
-3	68A77H3-2	. . LIFERAFT AND EQUIPMENT CONTAINER, LR-1 (30003) (With ACC 467) (E-2 series aircraft only)	1	
		. . SEAT PAN BASE ASSEMBLY	1	
-4	123AB50501-1	. . CUSHION ASSEMBLY, Ventilated	1	
-5	123AB50502-3	. . COVER PLATE, Oxygen bottle housing (ATTACHING PARTS)	1	
-6	MS27039-0806	. . SCREW	2	
-7	AN960-D8	. . WASHER	2	
-8	MS21069-L08	. . NUT PLATE	2	
-9	MS20426-AD3	. . RIVET ---*---	4	
-10	214A2	. . CYLINDER ASSEMBLY, Emergency oxygen (See figure 6-8 for BKDN)	1	
-11	123AB11594-13	. . ANGLE (ATTACHING PARTS)	1	
-12	MS24694-S19	. . SCREW	3	
-13	MS21069-L08	. . NUT PLATE	3	
-14	MS20426-AD3	. . RIVET ---*---	6	
-15	123AB11595-11	. . SUPPORT (ATTACHING PARTS)	1	
-16	MS27039-0823	. . SCREW	15	
-17	AN960-D8	. . WASHER	15	
-18	MS21069-L08	. . NUT PLATE	15	
-19	MS20426-AD3	. . RIVET ---*---	30	
-20	123ABH10037-3	. . PLATE, Spacer	1	
-21	123AB50502-11	. . HOUSING, Oxygen bottle	1	
-22	123AB50502-1	. . HOUSING, Oxygen hose (ATTACHING PARTS FOR INDEX ITEMS 21 AND 22)	1	
-23	MS27039-0814	. . SCREW	8	
-24	AN960-D8	. . WASHER	8	
-25	MS21069-L08	. . NUT PLATE	8	
-26	MS20426-AD3	. . RIVET ---*---	16	
-27	MS21266-1N	. . . GROMMET, Plastic, edging	3	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
6-7-28	GL514A1	. . FOOTMAN BRACKET	1	
		(ATTACHING PARTS)		
-29	MS24694-S55	. . SCREW	2	
-30	AN960-D10	. . WASHER	2	
-31	MS21042-L3	. . NUT	2	
		---*---		
-32	123ABH10037-501	. . SEAT PAN BASE PLATE	1	



006008

Figure 6-8. Emergency Oxygen Bottle

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
6-8	214A2	CYLINDER ASSEMBLY, Emergency oxygen, ... (20846) (See figure 6-7 for NHA)	REF	
-1	MS21964-17	. TAG ASSEMBLY (Note 1)	1	
-2	MS21964-13	. HOUSING, Pull cable assembly open type ..... (6 inches)	1	
	MS21964-14	. HOUSING, Pull cable assembly open type ..... (16.25 inches)	1	
-3	MS21964-15	. HOUSING, Pull cable assembly housed type ..... (ATTACHING PARTS)	1	
-4	MS35214-38	. SCREW	4	
-5	AN936A8	. WASHER, Lock ..... ---*---	4	
-6	MS21964-16	. BUSHING, Nipple	1	
-7	MS21965-1	. NIPPLE, Break off	1	
-8	MS29597-1	. CONTROLLER, Oxygen flow	1	
-9	MS21964	. VALVE ASSEMBLY	1	
-10	MIL-G-7601	. GAGE, Type L-2	1	
-11	MS21964-9	. CAP AND SEAL ASSEMBLY, Side check	1	
-12	MS21964-8	. BUSHING ASSEMBLY, Side check	1	
-13	MS21964-10	. BUSHING GASKET, Side check	1	
-14	MS21964-7	. RETAINER ASSEMBLY, Side check	1	
-15	MS21964-6	. SPRING, Side check	1	
-16	214A21	. FILTER ASSEMBLY (20846)	1	
-17	MS26545	. CYLINDER, Emergency oxygen (Note 2)	1	
-18	MS21964-18	. HOSE AND FITTING ASSEMBLY, 28 inch	1	

Notes:
1. Tag assembly is for shipping purposes only and should be removed and discarded when placing emergency oxygen cylinder assembly in service.
2. When ordering, the P/N will break down as follows:

MS26545	A	2	X	0025
MS NUMBER	Type thread	Class	Usage Code	Nominal Capacity

NUMERICAL INDEX

Part Number	Figure and Index Number	SM&R Code
AN936A8	6-8-5	PAOZZ
AN960-D10	6-7-30	PAOZZ
AN960-D8	6-7-7	PAOZZ
	6-7-17	
	6-7-24	
GL514A1	6-7-28	PAOZZ
MIL-G-7601	6-8-10	PAOZZ
MS20426-AD3	6-7-9	
	6-7-14	
	6-7-19	
	6-7-26	
MS21042-L3	6-7-31	PAOZZ
MS21069-L08	6-7-8	
	6-7-13	
	6-7-18	
	6-7-25	
MS21266-1N	6-7-27	PAOZZ
MS21964	6-8-9	PADZZ
MS21964-10	6-8-13	
MS21964-13	6-8-2	
MS21964-14	6-8-2	
MS21964-15	6-8-3	
MS21964-16	6-8-6	
MS21964-17	6-8-1	
MS21964-18	6-8-18	
MS21964-6	6-8-15	
MS21964-7	6-8-14	
MS21964-8	6-8-12	
MS21964-9	6-8-11	
MS21965-1	6-8-7	
MS24694-S19	6-7-12	
MS24694-S55	6-7-29	PAOZZ
MS26545	6-8-17	
MS27039-0806	6-7-6	
MS27039-0814	6-7-23	
MS27039-0823	6-7-16	PAOZZ
MS29597-1	6-8-8	
MS35214-38	6-8-4	PAOZZ
MS93585-02	6-8-21	
123ABH10037-3	6-7-20	
123ABH10037-501	6-7-32	
123AB11592-1	6-7	
123AB11594-13	6-7-11	
123AB11595-11	6-7-15	
123AB50501-1	6-7-4	PAOZZ
123AB50502-1	6-7-22	
123AB50502-11	6-7-21	
123AB50502-3	6-7-5	
214A2	6-7-10	PAOGD
	6-8	
214A21	6-8-16	PAOZZ
68A77D2-1	6-7-1	
68A77H3-1	6-7-2	
68A77H3-2	6-7-3	

CHAPTER 7

RIGID SEAT SURVIVAL KIT-1 AND 1A

Section 7-1. Description

7-1. GENERAL.

7-2. The Rigid Seat Survival Kits-1/1A (RSSK-1 and RSSK-1A), are designed for use with MBEU MK-H5A and MK-H7 ejection seats and function as a seat for the aircrewman as well as a container for an emergency oxygen system, liferaft and survival equipment (figures 7-1 through 7-4). The kits are available from separate manufacturers. The RSSK-1 is manufactured by Scott Aviation Corporation (P/N 21000-9). There are three manufacturers of the RSSK-1A, Rocket Jet Corporation P/N 741000, Scott Aviation Corporation P/N 21000-11 and East/West Industries P/N 67A73J100-2.

7-3. CONFIGURATION.

7-4. The RSSK-1/1A is constructed of a bonded fiberglass body and an extruded metal lip interconnecting the upper and lower containers. The kit is opened by the yellow and black striped KIT RELEASE handle mounted on the aft right side. Two adjustable retaining straps on the upper container provide attachment of the kit to aircrewman's torso harness. Upper and lower quick disconnect blocks, interconnected by an intermediate block permanently mounted on the aft left side of upper container, provide connections for communication, suit ventilation, oxygen and anti-g functions between aircraft and aircrewman. The upper container assembly also houses a 100 cu in., 1800 psi, emergency oxygen cylinder capable of supplying over 10 minutes of breathing oxygen for high altitude bailout. Or, in the event of a failure of the aircraft oxygen system, emergency oxygen is available by pulling the manual oxygen release on the kit. Oxygen from the kit then flows to aircrewman through the emergency oxygen system reducer in the kit. A check valve in the intermediate block prevents emergency oxygen from flowing out the bottom of the intermediate block when the lower block has been separated. It also prevents system oxygen from flowing overboard if the upper block is separated and the ship's oxygen ON-OFF valve is ON. The reducer/ manifold is automatically operated by separation of lower quick-disconnect block from intermediate block during ejection. The lower container houses the liferaft and survival equipment.

7-5. When seated aboard the aircraft the aircrewman connects the kit quick-release fittings on the retaining straps to his torso harness. The personal service leads are connected via the quick-disconnect upper block. These leads can be quickly disconnected by pulling the leads one at a time or by removing the upper block.

7-6. SUBASSEMBLIES. The major subassemblies of the RSSK-1/1A are:

1. Emergency Oxygen System
2. Upper and Lower Containers
3. Upper, Lower and Intermediate Blocks
4. Release Mechanism
5. Dropline
6. Cushion

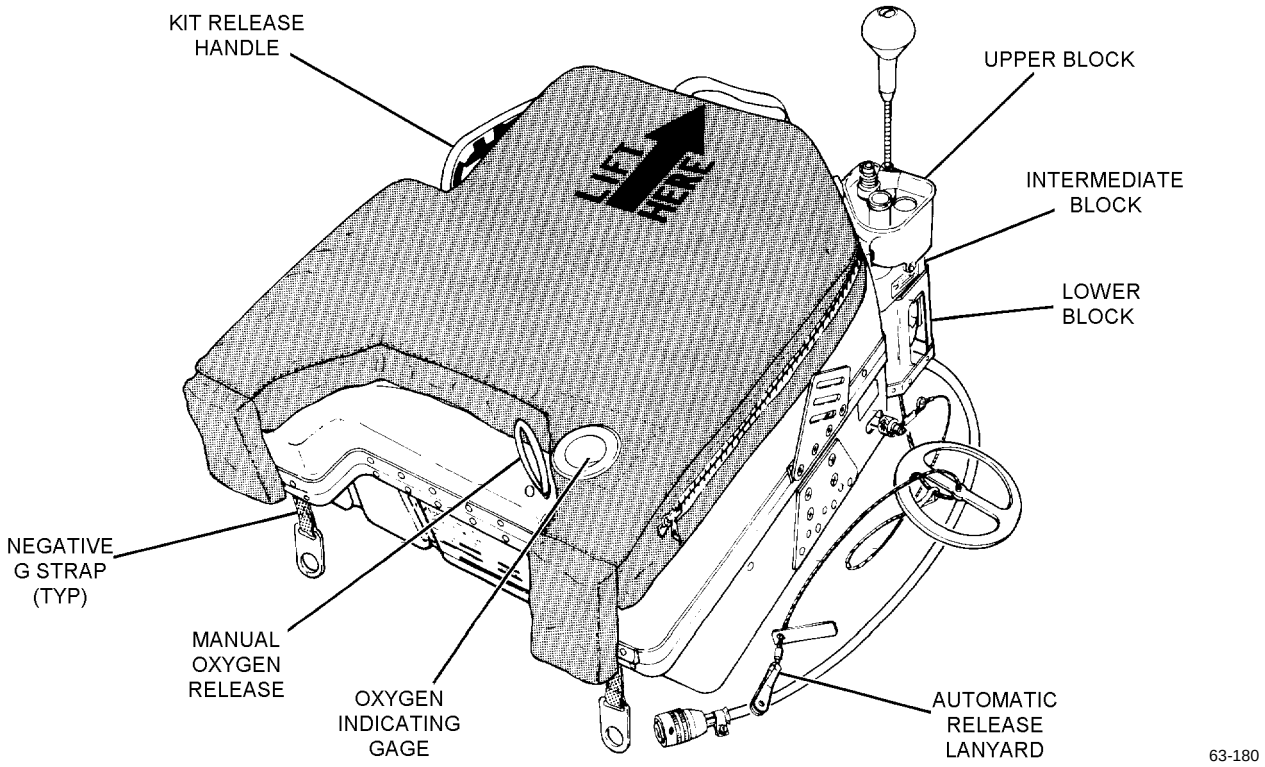


Figure 7-1. RSSK-1 Closed

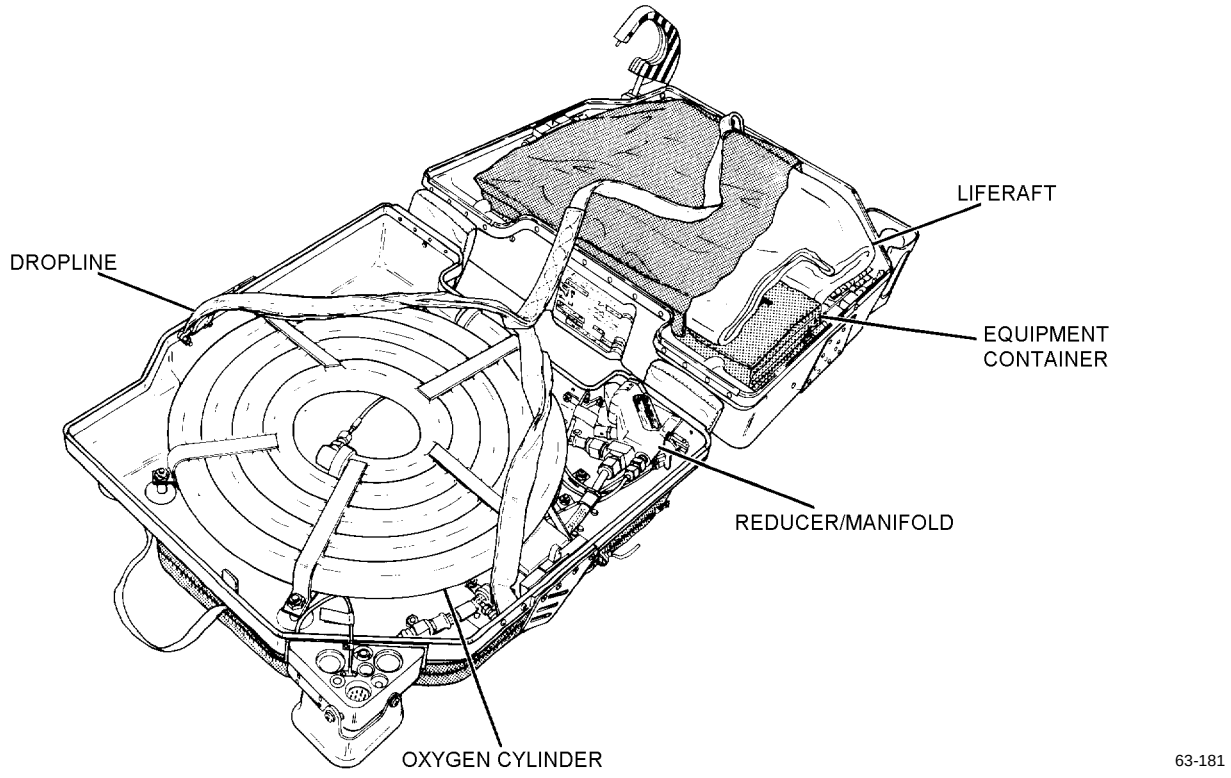


Figure 7-2. RSSK-1 Open

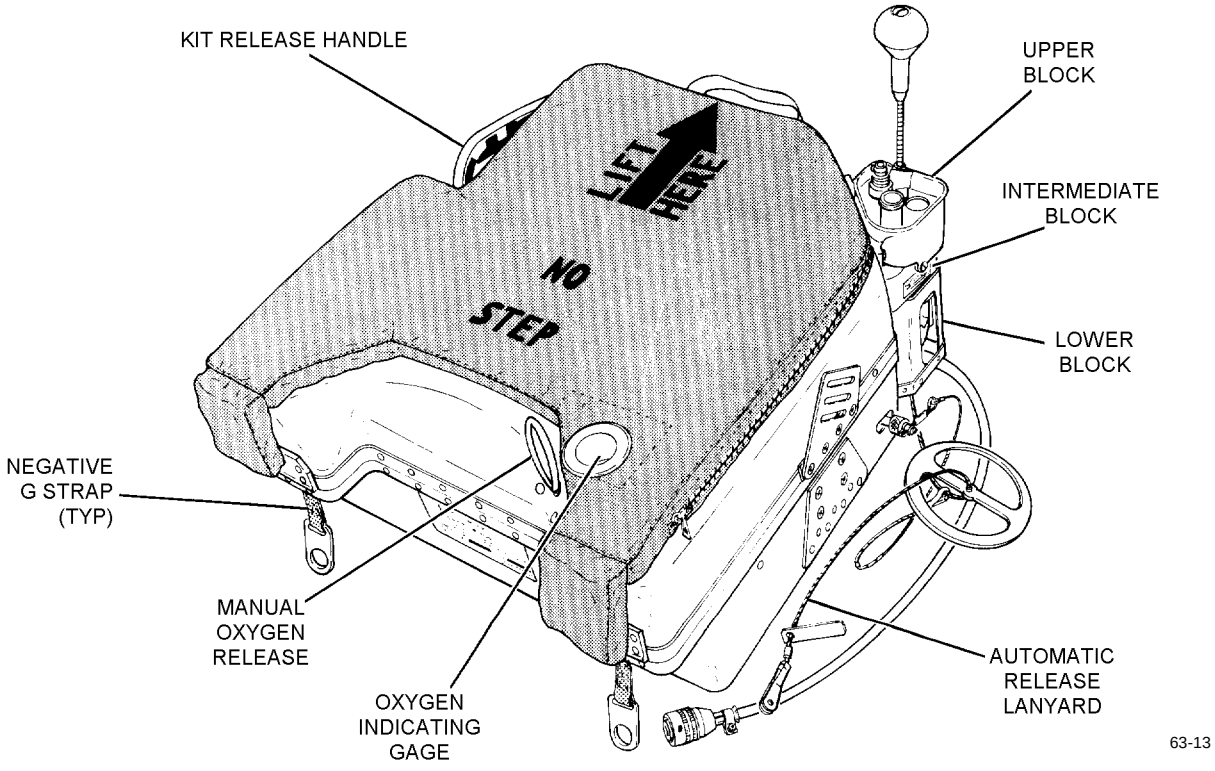


Figure 7-3. RSSK-1A Closed

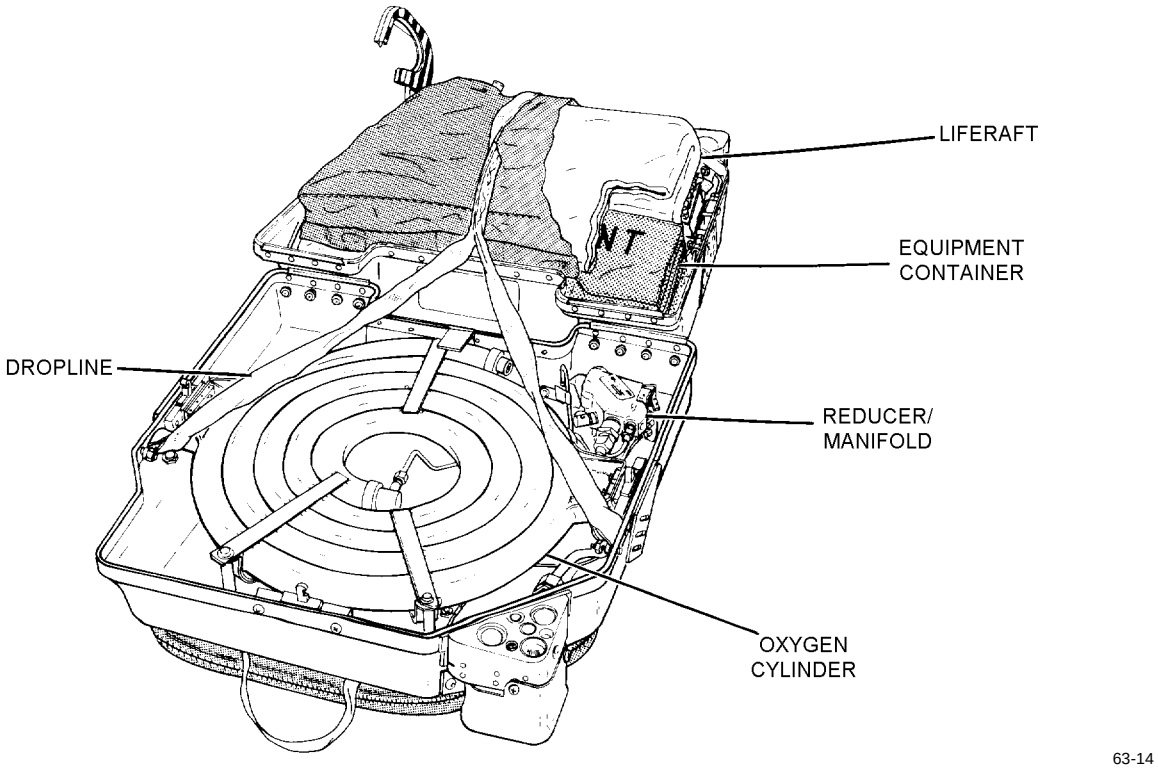


Figure 7-4. RSSK-1A Open

7-7. REFERENCE NUMBERS, ITEMS AND SUPPLY DATA.

7-8. Figures 7-24 through 7-33 are for Rocket Jet Engineering Corporation (P/N 741000); figures 7-34 through 7-47 are for Scott Aviation Corporation (P/N 21000-9 and P/N 21000-11); figures 7-48 through 7-55 are for East/West Industries P/N 67A73J100-2. These figures contain information on each assembly, subassembly and component part for each RSSK. The figure and index number, reference or part number, description and units per assembly are provided.

WARNING

Except interchangeable parts listed in the IPB, similar parts from kits made by different manufacturer's are not interchangeable. Attempts to substitute one manufacturer's part for another may cause the kit to malfunction. Make sure the parts and assembly lists are for the proper kit when servicing a kit, or ordering replacement components for it.

7-9. APPLICATION.

7-10. The RSSK-1/1A is part of the survival equipment used by aircrewmen aboard F-4 series aircraft.

7-11. FUNCTION.

7-12. When the aircrewman ejects from the aircraft, the following functions occur:

1. The lower block is separated from kit at intermediate block. As blocks separate, the automatic actuation lanyard for the emergency oxygen system actuates the reducer assembly. The aircrewman is then supplied with emergency oxygen for descent (figure 7-5).

NOTE

If automatic actuation of emergency oxygen fails, oxygen may be manually actuated by pulling the manual oxygen release.

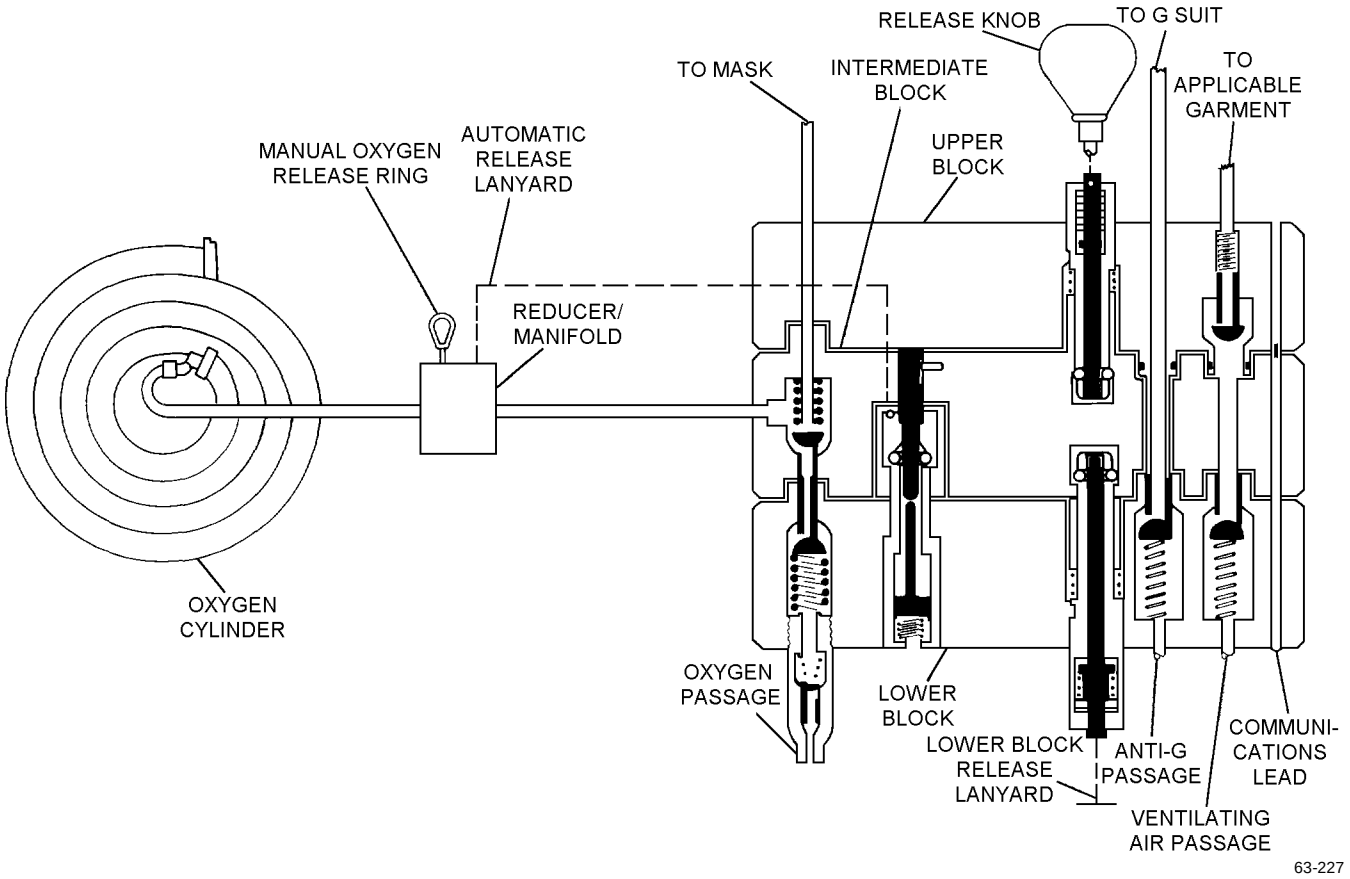


Figure 7-5. Oxygen Schematic

2. The radio beacon is also actuated by means of an automatic actuation lanyard at block separation. The beacon will provide a continuous signal during descent.

3. When the aircrewman reaches a safe altitude and wishes to deploy the survival kit, he pulls the kit release handle free of the kit. This unlocks the containers and the lower half falls away but remains attached by the dropline assembly. The liferaft, attached to the dropline, is automatically inflated as snubbing action on dropline actuates liferaft inflation assembly.

Section 7-2. Modifications

7-13. GENERAL.

7-14. The RSSK-1/1A shall be updated by comparing the configuration of the assembly with the directives listed in table 7-1.

Table 7-1. RSSK-1/1A Directives

Description of Modification	Application	Modification Code
Improved Retaining Method to Eliminate Misalignment of RSSK-1 Seat Cushion.	(Scott) RSSK-1, P/N 21000-9	66-319
Securing of RSSK-1/1A Equipment Container	All RSSK-1/1A Survival Kits	66-332 Amend. 1
Revised Reeving of RSSK-1/1A Retaining Straps	(Scott/Rocket Jet) RSSK-1/1A Survival Kits	66-324
Installation of AN/URT-33A Emergency Radio Beacon	(Scott/Rocket Jet) RSSK-1/1A Survival Kits	66-161 Part III, Amend. 1
Modification of Oxygen Manifold Toggle Arm	(Scott) RSSK-1, P/N 21000-9 P/N 21000-11	66-372
Improved Lapbelt Adjusters for RSSK-1/1A	All RSSK-1/1A Survival Kits	66-472

Section 7-3. Rigging and Packing

7-15. GENERAL.

7-16. Unless operational requirements demand otherwise, rigging and packing of the RSSK-1/1A shall be accomplished at Intermediate Levels of maintenance by qualified personnel.

NOTE

Quality assurance steps are provided for critical operations. When a step is underlined, the Aircrew Survival Equipmentman shall perform the operation and then have performance verified by Quality Assurance (QA).

7-17. RIGGING AND PACKING PROCEDURES.

7-18. Rigging and packing of the RSSK-1/1A is accomplished in eight separate operations as follows:

1. Preliminary Procedures
2. Radio Beacon Rigging and Installation
3. Survival Equipment Binding
4. Survival Equipment Packing
5. Stowing Dropline
6. Liferaft Preparation, Folding, Rigging and Packing
7. Closing Container
8. Cockpit Routing and Installation of the Emergency Radio Beacon Lanyard

7-19. PRELIMINARY PROCEDURES. The following preliminary procedures shall be accomplished prior to rigging and packing the RSSK-1/1A.

1. Ensure RSSK-1/1A and components have been inspected in accordance with Section 7-5.

2. Inspect oxygen hose assemblies in accordance with Chapter 4.

3. Remove upper container assembly from lower container assembly.

4. Remove liferaft cover. Inspect liferaft cover for damaged fabric and loose, broken, or frayed stitching.

WARNING

CO_2 bottle is under pressure. Use caution when disconnecting CO_2 bottle from liferaft. Do not loosen or attempt to remove inflation valve assembly from CO_2 cylinder.

CAUTION

Ensure actuating line is disconnected from CO_2 cylinder inflation valve before removal of CO_2 cylinder from liferaft.

5. Disconnect CO_2 cylinder from liferaft as follows:

a. Carefully remove liferaft from container.

b. Disconnect actuation line from CO_2 cylinder.

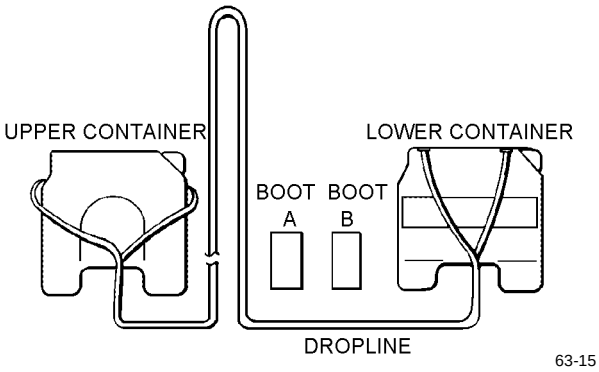
c. Disconnect CO_2 cylinder from liferaft.

d. Remove large loop of drop line from CO_2 cylinders neck.

e. Ensure anti-chafing disc is installed. Reconnect CO_2 cylinder to liferaft finger tight. If functional test is required torque valve 80 to 90 in-lbs.

6. Ensure liferaft and CO_2 cylinder have been inspected in accordance with NAVAIR 13-1-6.1-1.

7. Remove dropline from boots and align kit components on a clean flat surface as shown.



Step 7 - Para 7-19

NOTE

A newly fabricated or procured dropline assembly will have a final dimension of 26 feet, 4 inches ±2 inches. However, a dropline assembly is subjected to a certain amount of stretch during its stowing process, and shrinkage during its cleaning process, therefore a tolerance of ±12 inches is acceptable for an older dropline assembly.

8. Inspect dropline to ensure proper attachment to upper and lower containers. Also ensure dropline length is 26 feet, 4 inches ±12 inches.

9. Ensure survival items have been inspected in accordance with NAVAIR 13-1-6.5.

NOTE

Ensure battery service life does not expire prior to the next scheduled inspection cycle of the assembly in which the radio set is installed. Refer to NAVAIR 16-30URT33-1 for battery service life.

10. Remove radio beacon set from kit and ensure that the battery and radio beacon have been inspected in accordance with NAVAIR 16-30URT33-1.

11. Check seat pan and cushion assembly for cuts, tears, and abrasions, and hardware for security of attachment, corrosion, damage, wear, and ease of operation.

7-20. RADIO BEACON RIGGING AND INSTALLATION. To rig and install the AN/URT-33 Emergency Radio Beacon, proceed as follows:

Materials Required

Quantity	Description	Reference Number
1	Beacon Set, Radio AN/URT-33A	MIL-B-38401A
1	Actuator Indicator Assembly	CL204D3-11 (CAGE 80206) NIIN 00-127-5597
1	Lanyard, Actuating	CL204C4-5 (CAGE 80206) (Procure or fabricate IAW paragraph 7-89)
As Required	Thread, Nylon, Type II, Class A, Size E	V-T-295 NIIN 00-559-5211

Support Equipment Required

Quantity	Description	Reference Number
1	T-wrench	Fabricate IAW paragraph 7-86

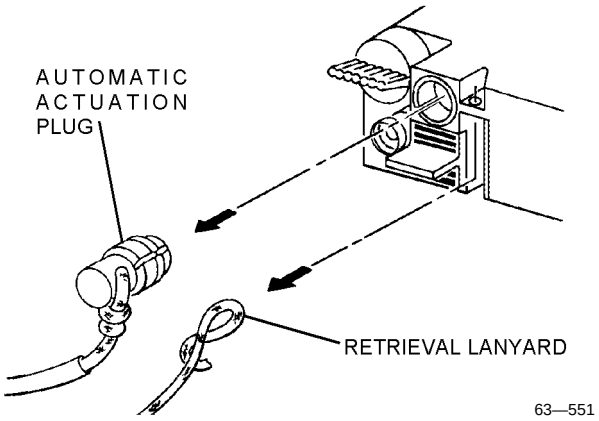
NOTE

Ensure slider switch on radio beacon is OFF. Slider switch is in OFF position when word ON is not visible on radio beacon housing.

Determine if beacon has been modified in accordance with steps 1 through 3 before proceeding to step 4.

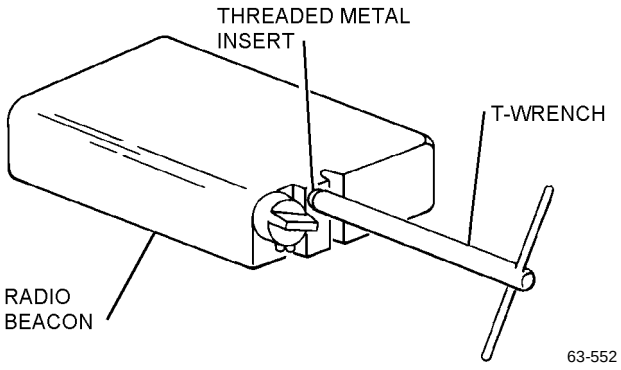
Retain automatic actuation plug, lanyard, and metal insert in shop area for possible future use.

1. Remove and retain automatic actuation plug and lanyard. Remove and discard retrieval lanyard.



Step 1 - Para 7-20

2. Remove threaded metal insert from beacon using locally manufactured T-wrench. (Refer to paragraph 7-86 for fabrication of T-wrench.)



Step 2 - Para 7-20

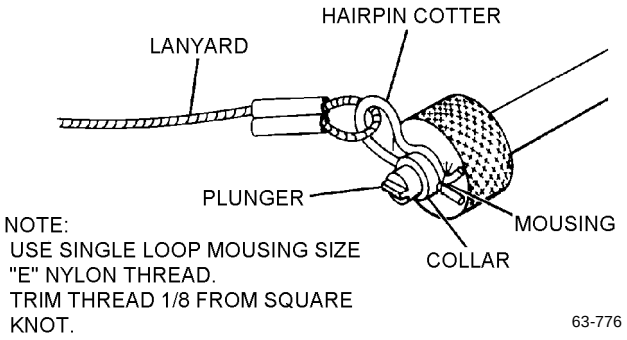
3. Connect flexible antenna to radio beacon. Push bayonet-type fitting in and turn to right.

4. Install actuator indicator assembly handtight into position in beacon from which metal insert was removed.

NOTE

Do not release pressure against plunger until hairpin cotter has been installed.

5. Depress indicator plunger, align pin holes in plunger and collar, and insert hairpin cotter attached to end of actuation lanyard. Safety-tie open end of hairpin cotter with single loop mousing secured with a square knot. Use size E nylon thread. Cut off excess length of thread 1/8 inch from square knot.



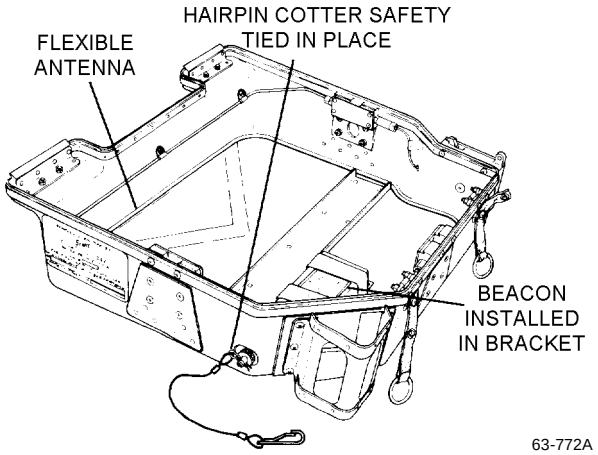
Step 5 - Para 7-20

6. Ensure hairpin cotter and collar are free to rotate 360° without binding. If hairpin cotter and collar are free proceed to step 7. If hairpin cotter and collar do not rotate, refer to NAVAIR 16-30URT33-1.

NOTE

To prevent accidental transmission of inaudible emergency distress signal, ensure indicator plunger is secure in depressed position before beacon ON/OFF slider switch is placed in ON (armed) position.

7. Place beacon ON/OFF slider switch in ON (armed) position and install beacon in radio beacon bracket in lower container. Route free end of attached actuation lanyard through opening in side of container. Position beacon in bracket so tip of actuator assembly (tip of plunger, hairpin cotter and lanyard, and collar) extends through opening in side of container. Ensure slider switch is secure in ON position under finger bar of beacon bracket assembly, then secure beacon using hook and pile fasteners.



Step 7 - Para 7-20

8. Route flexible antenna around inside periphery of lower container.

7-21. SURVIVAL EQUIPMENT BINDING. Ensure all survival items have been inspected in accordance with NAVAIR 13-1-6.5 Technical Manual before binding. To bind survival items, proceed as follows (table 7-2)

NOTE

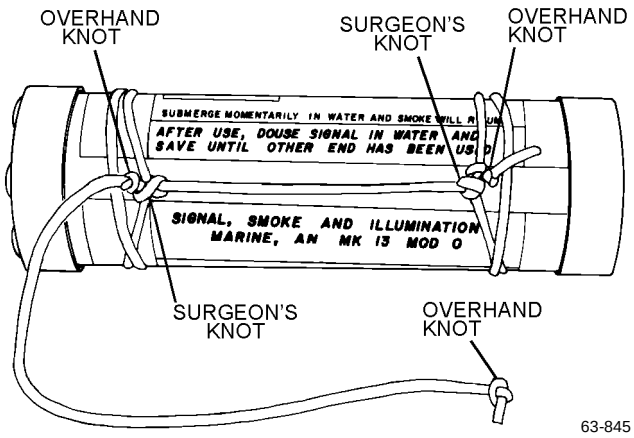
To prevent loss of survival items, tie individually and then tie to 140-inch length of nylon cord. Nylon cord of prescribed lengths required for this procedure shall be seared at both ends to prevent fraying (table 7-3).

All cord used shall be Type I nylon (MIL-C-5040).

The cord between end-ties shall be drawn tight.

1. Using a 36-inch piece of nylon cord, tie an overhand knot in each end. Wrap end of cord two overlapping turns around end of signal flare and tie with a surgeon's knot. Position cord-end overhand knot snugly against surgeon's knot.

2. Route cord to opposite end of signal flare. Wrap cord two overlapping turns around flare and tie with surgeon's knot followed by an overhand knot positioned snugly against surgeon's knot.



Step 2 - Para 7-21

3. Tie the other signal flare in the same manner as steps 1 and 2.

Table 7-2. Survival Kit Items (Note 1)

Item Name	Quantity	Reference Number
Cord, (Nylon), Fibrous, Type I	50 ft	NAVAIR 13-1-6.5
Signal, (Flare), Smoke and Illumination, MK-13 MOD 0 or MK-124 MOD 0 (Note 2)	2	NAVAIR 13-1-6.5
Sea (Dye) Marker, Fluorescein	2	NAVAIR 13-1-6.5
Sponge, (Bailing), Cellulose Type II, Class 2	1	NAVAIR 13-1-6.5
SRU-31/P Survival Kit, Packet #1 (Medical) (Note 3)	1	NAVAIR 13-1-6.5
SRU-31/P Survival Kit, Packet #2 (General) (Notes 3 and 4)	1	NAVAIR 13-1-6.5
SRU-31A/P (Note 9)	Optional	NAVAIR 13-1-6.5
Water, Drinking, Canned (Note 5)	1	NAVAIR 13-1-6.5
Water, Drinking, Emergency (Note 8)	3	NAVAIR 13-1-6.5
Opener, Can, Hand	1	NAVAIR 13-1-6.5
Ground/Air Emergency Code Card	1	NAVAIR 13-1-6.5
Blanket, (Combat) Casualty, (3 oz) (Note 6)	1	NAVAIR 13-1-6.5
Envelope, Packing List	2	NAVAIR 13-1-6.5
Beacon Set, Radio	1	NAVAIR 13-1-6.5
Liferaft, Inflatable	1	NAVAIR 13-1-6.5
Lowering Device (Note 7)	1	NAVAIR 13-1-6.1-1

Notes:
1. The items listed are typical and are considered mandatory for inclusion in the survival kit container. Deviation from the listed items may be required by certain Functional Air Wings (FUNCWINGS), Carrier Air Wings (CVW), COMFAIRS, or Marine Air Wings (MAW). Requests for deviations must be forwarded to and authorized by TYCOMS and with information to Fleet Support Team (FST) at NAVAIR-WARCENACDIV Patuxent River MD via Naval Message. When optional items are substituted, particular attention must be paid to the binding sequence so that physical sizes and binding order of substituted items remain approximately the same. That portion of an item name in parentheses is a common-use name or container size and is not intended for supply requisition purposes.
2. MK-13 MOD 0 shall be used until stocks are depleted. MK-124 MOD 0 will replace MK-13 MOD 0 as stocks become available.
3. SRU-31/P complete kits including Medical Packet (#1) and General Packet (#2) may be ordered; instructions for packing and ordering these kits are found in NAVAIR 13-1-6.5.
4. Packet #2 must be stowed on aviator if kit includes lowering device (RSSK-1A only).
5. One additional canned water may be added as optional equipment (RSSK-1A only).
6. Optional equipment (without lowering device).
7. Optional equipment (RSSK-1A only). Not feasible in RSSK-1.
8. When the supply for emergency canned water has been exhausted, order emergency bagged water in accordance with NAVAIR 13-1-6.5.
9. The selection of SRU-31/P or SRU-31A/P Individual Aircrewmember's Survival Kit will be at the discretion of the TYPE COMMANDER depending on mission requirements, reference NAVAIR 13-1-6.5, Chapter 9, for detailed information.

Table 7-3. Nylon Cord Lengths Required for Binding

Length (Inches)	No. Required
140	1
12 (Note 1)	4
30	2
36	2
40	2
50 (Note 1)	2

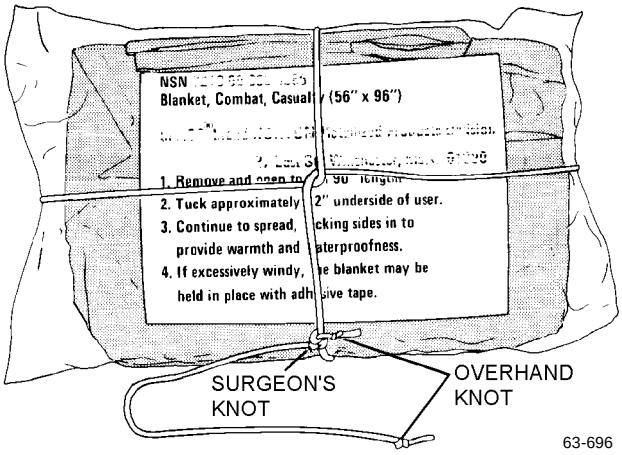
Notes: 1. When using bagged water in place of canned emergency water, the number of required 12 inch lengths will be a total of 5 and the required 50 inch lengths will be a total of 1.

4. Using a 12-inch piece of nylon cord, tie an overhand knot near each end. Pass overhand knot through center grommet in dye marker and tie a bowline knot, allowing approximately a 1-inch loop. Bowline knot shall lie snugly against overhand knot.

Step 4 - Para 7-21

5. Tie the second sea dye marker in the same manner as step 4.

6. If casualty blanket is used, tie an overhand knot near each end of a 30-inch piece of nylon cord. Wrap cord around blanket until cord ends meet, then rotate cords 1/4 turn and wrap cords around opposite sides of blanket. Tie with a surgeon's knot. Ensure cord-end overhand knot is positioned snugly against surgeon's knot.



Step 6 - Para 7-21

7. Using a 50-inch piece of nylon cord, tie an overhand knot near both ends. Wrap one end of cord two overlapping turns around end of canned water and tie with surgeon's knot. Position cord-end overhand knot snugly against surgeon's knot. Route cord to opposite end of can. Wrap cord two overlapping turns around end of can and tie with surgeon's knot followed by an overhand knot positioned snugly against surgeon's knot. Cord between end-ties shall be drawn tight.

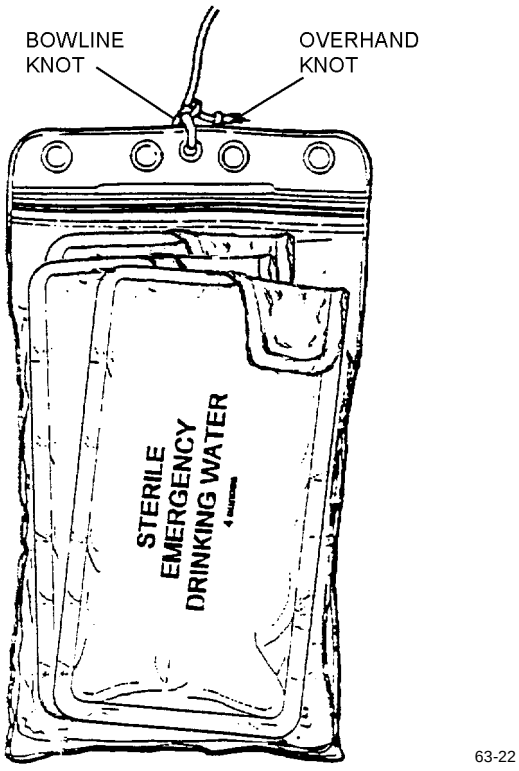
Step 7 - Para 7-21

8. If second canned water will be used secure it in same manner as step 7.

NOTE

Replacement rate of exhausted canned water shall be in accordance with the NAVAIR 13-1-6.5 manual. Bagged emergency drinking water shall be stowed in the same order as canned emergency water. The bags of water shall be stowed in a flat configuration.

9. Bagged water. Place a maximum of three 4-ounce bagged emergency drinking water flat inside a clear vinyl envelope (MIL-B-117) with pour spout folded down. Bagged water must be able to fit into envelope without disrupting the closure of the sealing slide fastener. Using a 12-inch length of cord, tie an overhand knot on each end and pass knot through center hole in envelope. Secure with bowline knot, allowing an approximate 1-inch loop. Position an overhand knot snugly against the bowline knot. Ensure overhand knot is snug against surgeon's knot.

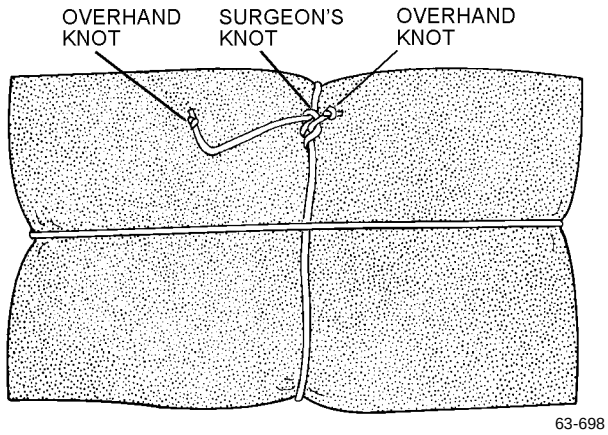


Step 9 - Para 7-21

NOTE

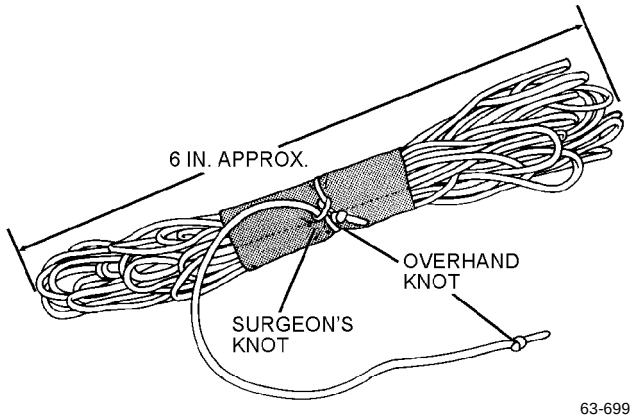
Bailing sponge should be compressed to minimum thickness by compressing while damp and then allowing to dry in compressed state before tying.

10. Using 30-inch length of nylon cord, tie overhand knot near ends. Wrap cord around sponge until cord ends meet, then rotate cords 1/4 turn and wrap cords around opposite sides of sponge. Tie with surgeon's knot. Ensure cord-end overhand knot is positioned snugly against surgeon's knot.



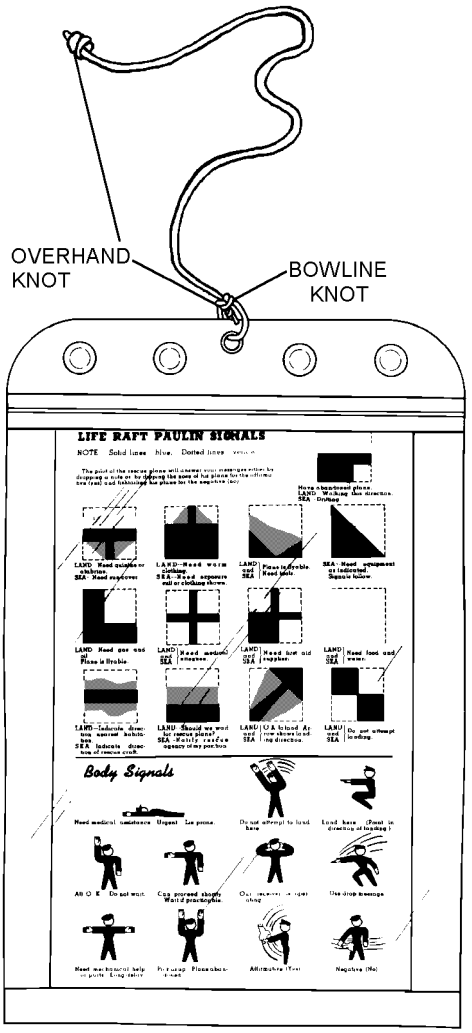
Step 10 - Para 7-21

11. Cut one 2 x 3-inch piece of nylon duck material. Accordion-fold 50-foot length of nylon cord in 6-inch bights, and wrap material around center of accordion-folded cord. Using 12-inch piece of nylon cord, tie overhand knot near each end and secure one end of cord in center of material with surgeon's knot. Ensure cord-end overhand knot is snugly against surgeon's knot



Step 11 - Para 7-21

12. Place Ground/Air Emergency Code Card into clear vinyl plastic envelope (MIL-B-117) and close sealing zipper. Using 12-inch piece of cord, tie overhand knot in each end and pass knot through center hole in envelope. Secure with bowline knot, allowing 1-inch loop. Cord-end overhand knot shall be snugly against bowline knot.



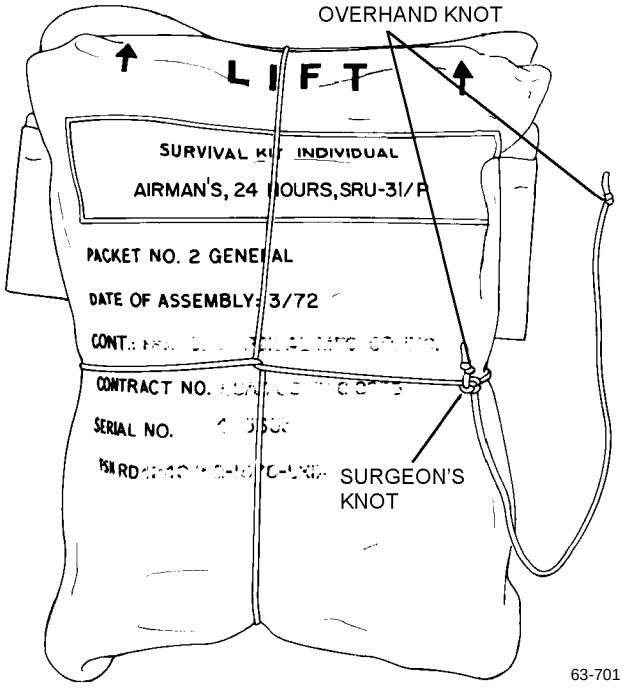
Step 12 - Para 7-21

NOTE

If Personnel Lowering Device (PLD) is to be installed (RSSK-1A only), SRU-31/P Survival Kit shall be stowed on aviator.

SRU-31/P Packet #1 (Medical) shall be folded approximately double prior to binding.

13. Using 40-inch length of nylon cord, tie overhand knot in both ends. Wrap cord around one packet of SRU-31/P Survival Kit until cord ends meet, then rotate cords 1/4 turn and wrap cords around opposite sides of packet. Tie with surgeon's knot. Cord-end overhand knot shall be snugly against surgeon's knot.



Step 13 - Para 7-21

14. Secure the second SRU-31/P packet in the same manner as step 12.

15. Ensure survival items are properly tied.

16. Using the 140-inch length of Type I nylon cord, form a 3/4 to 1-inch overhand loop approximately 12 inches from one end. Continue forming loops every 5 inches until there are enough to accommodate all required survival items. Ensure a minimum of 25 ±1 inches of cord remain after forming the last overhand loop.

17. Tie each item to a loop on the 140-inch nylon cord (figure 7-6) using a surgeon's knot. Ensure each item's cord-end overhand knot is positioned snugly against surgeon's knot.

CAUTION

Ensure pointed end of can opener has adequate chafing cloth to prevent damage to other survival items.

18. Route 12-inch end of the 140-inch cord through the hole in the can opener and secure with a 1-inch loop bowline knot, followed by an overhand knot drawn snugly against bowline knot. Wrap can opener with chafing cloth secured by a rubber band (figure 7-6).

7-22. SURVIVAL EQUIPMENT PACKING. To pack survival equipment, proceed as follows:

1. Place equipment container on table with attaching loops facing packer and word EQUIPMENT facing up.

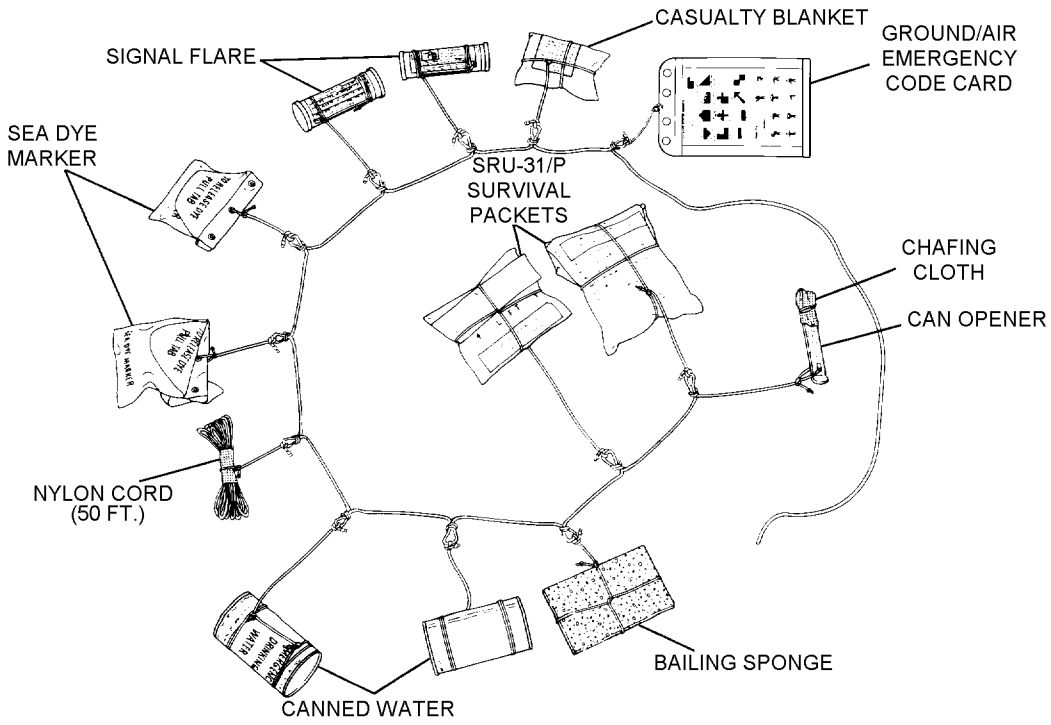
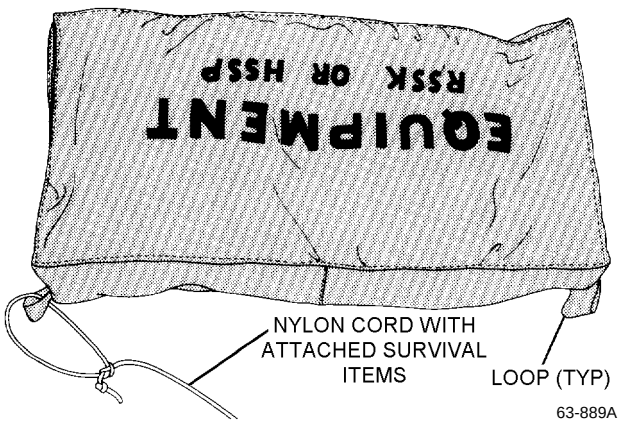


Figure 7-6. Binding Survival Items

2. Attach bitter end of 140-inch nylon cord (with attached survival items) to loop on left side of equipment container. Make the attachment using a bowline knot with an approximate 2-inch loop. Position bowline knot so cord-end overhand knot rests snugly against bowline.



Step 2 - Para 7-22

3. Open equipment container by pulling left slide fastener to right.

NOTE

Survival items shall be stowed in neat and orderly fashion and items shall be arranged to obtain flattest possible pack.

Can opener shall be positioned so that it cannot damage other survival items.

4. Stow survival items within height, length, and width of equipment container.

5. Close equipment container.

6. Place equipment container in forward part of lower container with slide fastener facing forward (figure 7-7).

NOTE

All tacking cord shall be coated with mixture of 50% beeswax and 50% paraffin. Cord may be dipped in melting pot 160° to 200°F, or drawn across solid block of mixture.

7. Cut 52 ±1-inch piece of nylon cord, Type III, MIL-C-5040, and sear ends. Secure cord to equipment container and dropline as shown in figure 7-7.

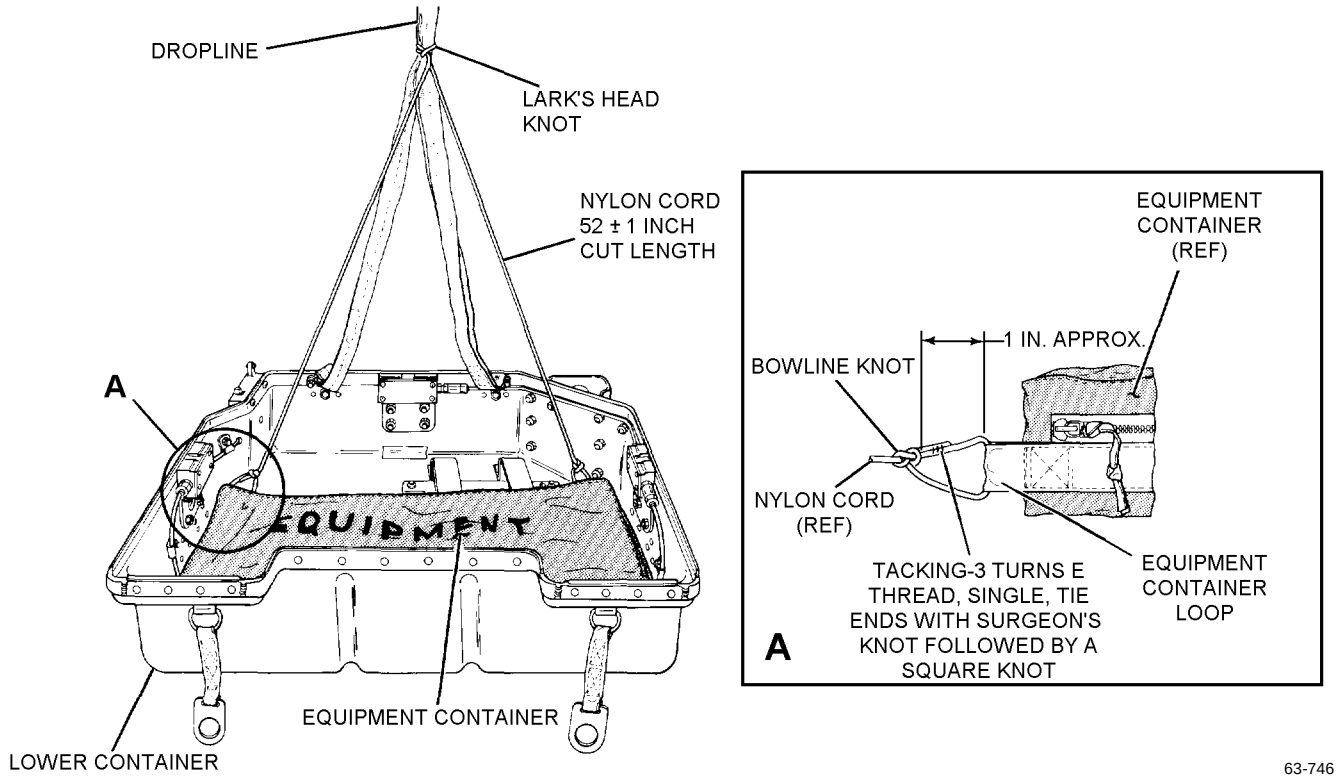


Figure 7-7. Stowed Survival Equipment

7-23. STOWING DROPLINE. To stow dropline in boots, proceed as follows:

NOTE

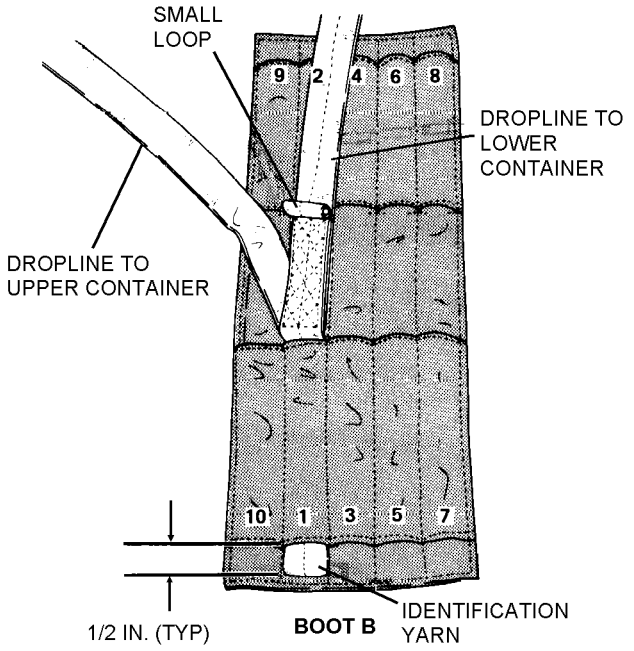
Stowage boots are referred to as boot A and boot B for identification purposes only. There are no physical differences between boots; letters A and B do not actually appear on them.

Numbers on stowage channels of boots correspond to dropline bights and order in which they are to be stowed. Numbers appear in illustrations for clarity; they do not actually appear on stowage boots.

The identification yarn on earlier fabricated dropline assemblies may be located on the underside of the webbing. However, procedural steps depicting identification yarn location will be reversed throughout the dropline stowage procedures for these assemblies. Future fabrication of the dropline for the RSSK-1/1A will be in accordance with paragraph 7-84.

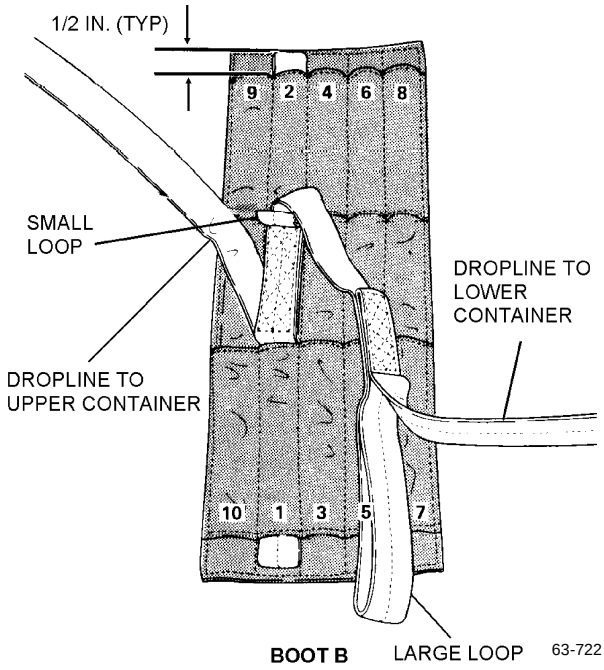
1. Lay dropline flat between container halves with dropline loops facing up. Remove all twists from dropline before beginning stowing operation.

2. Position boot B to left of lower container. Form first bight 5 ±1/2 inches from base of small loop stitching. Bight shall be in portion of dropline going to upper container, and small loop shall face up. Stow bight in channel 1 of boot B. Push bight in channel with 7-inch length of 3/8-inch hardwood dowel tapered at one end. There shall be 1/2-inch protrusion at end of channel and identification yarn shall be visible at protrusion.



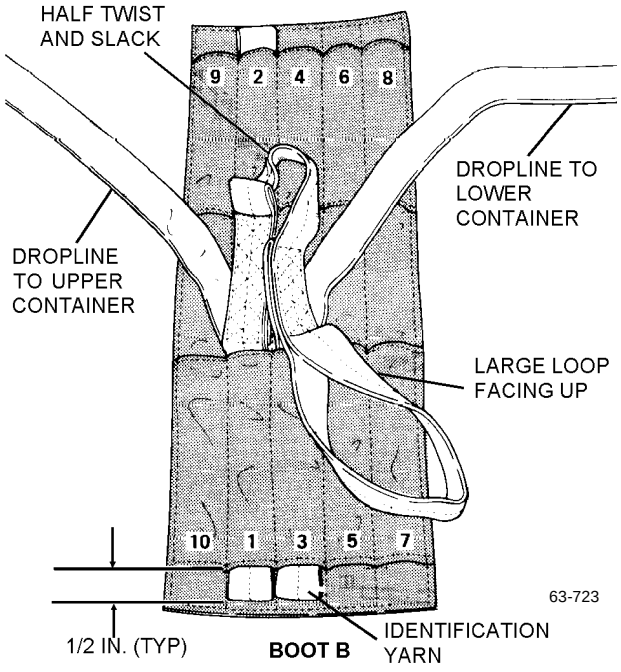
Step 2 - Para 7-23

3. Second bight shall be formed in portion of dropline going from small loop to large loop, and shall be stowed in channel 2. Identification yarn shall not show at protrusion.



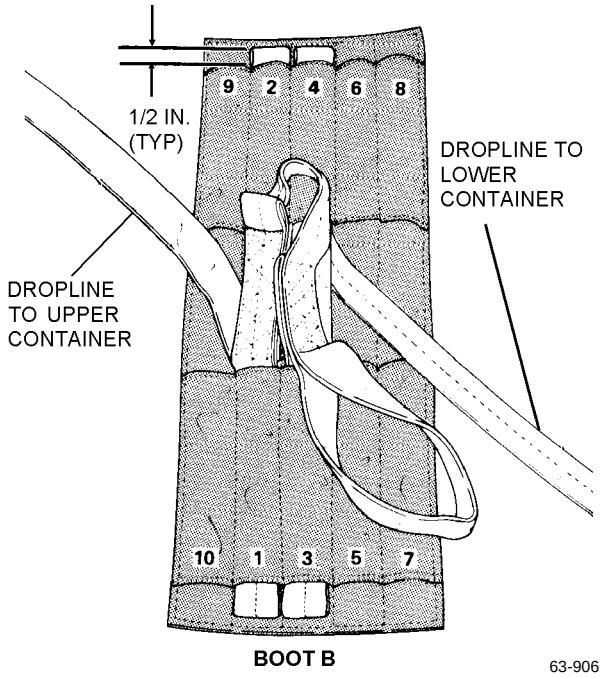
Step 3 - Para 7-23

4. Place a half-twist in dropline by rotating clockwise so that large loop faces up. Stow third bight in channel 3. A small amount of slack may exist between bights 2 and 3. Identification yarn shall be visible at protrusion.



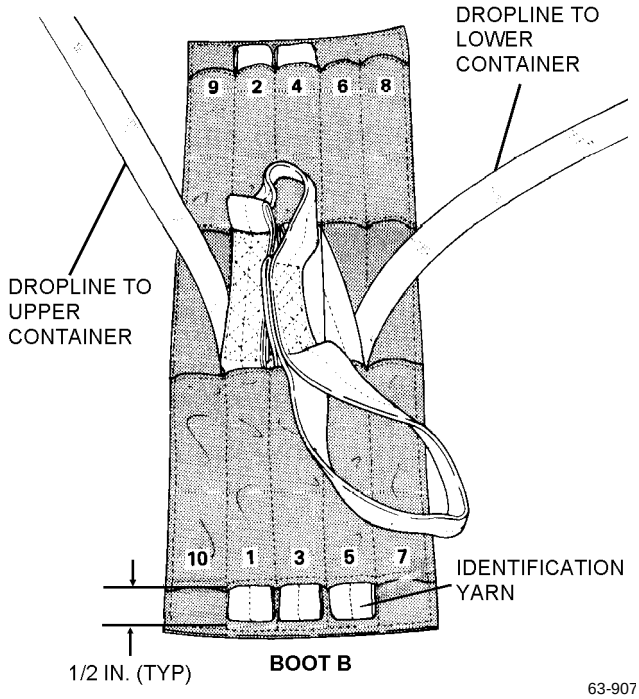
Step 4 - Para 7-23

5. Stow fourth bight in channel 4, ensuring that identification yarn does not show at protrusion.



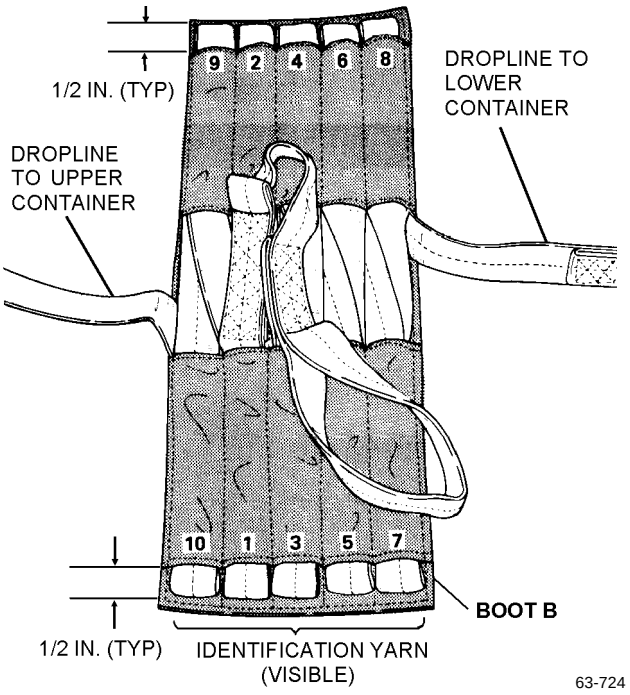
Step 5 - Para 7-23

6. Stow fifth bight in channel 5, ensuring that identification yarn is visible at protrusion.



Step 6 - Para 7-23

7. Stow remainder of dropline in boot B in accordance with numbering sequence on boot as shown, maintaining 1/2-inch protrusion. If there is insufficient line, due to allowable tolerance in length of dropline, a full stow may be impossible in channel 8.

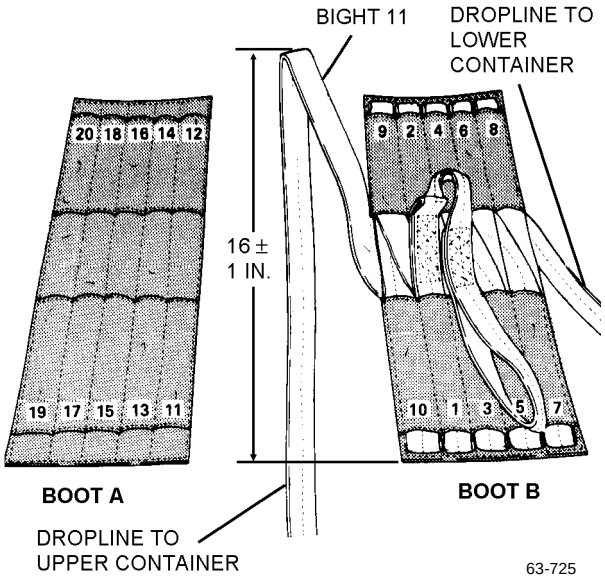


Step 7 - Para 7-23

NOTE

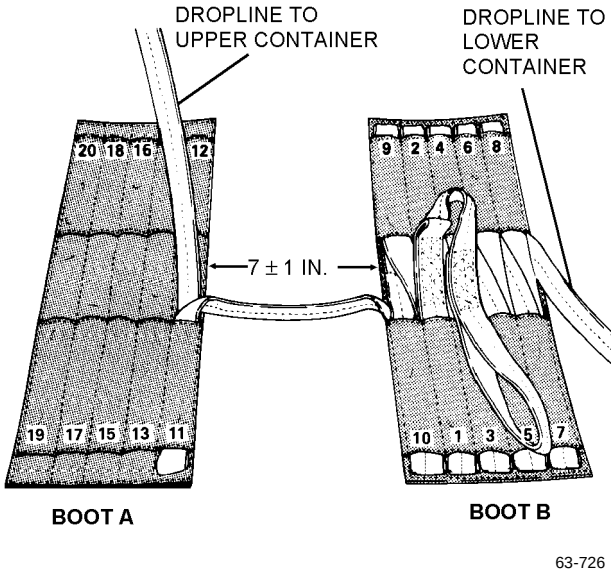
Upon the completion of step 7, identification yarn shall be visible at channels 1, 3, 5, 7 and 10, and shall not show at channels 2, 4, 6, 8 and 9.

8. Form bight 11 in dropline 16 ±1 inch from bottom of last bight (bight 10) in boot B.



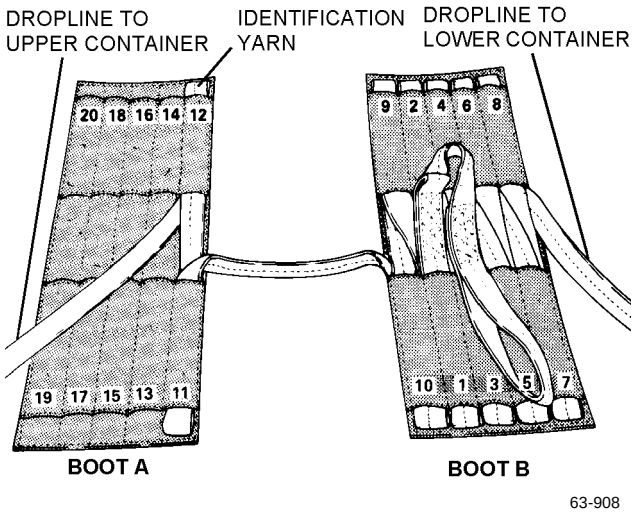
Step 8 - Para 7-23

9. Stow bight 11 (formed in step 8) in channel 11 of boot A. There shall be 7 ±1 inch of dropline between boots A and B when bight 11 is stowed. Identification yarn shall not show at protrusion.



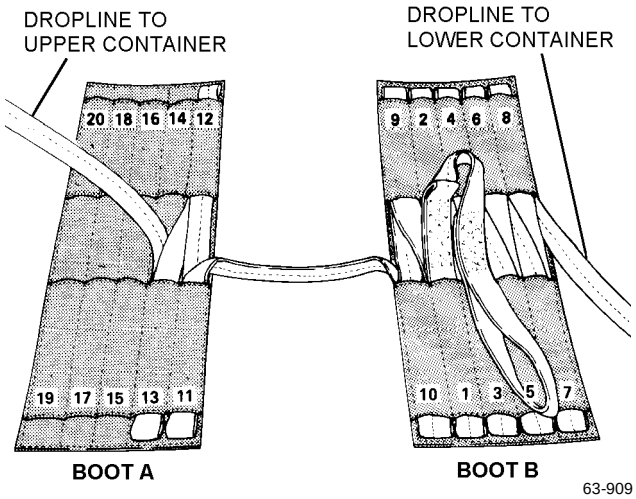
Step 9 - Para 7-23

10. Stow bight 12 in channel 12 of boot A. Identification yarn shall be visible at protrusion.



Step 10 - Para 7-23

11. Stow bight 13 in channel 13. Identification yarn shall not show at protrusion.



Step 11 - Para 7-23

12. Continue stowing bights in boot A until all line is stowed. Maintain 1/2- inch protrusion (figure 7-8).

NOTE

Upon the completion of step 12 identification yarn shall be visible at channels 12, 14, 16, 18 and 20 and shall not show at channels 11, 13, 15, 17 and 19.

13. Ensure all stows are properly formed and that there are no twists in dropline.

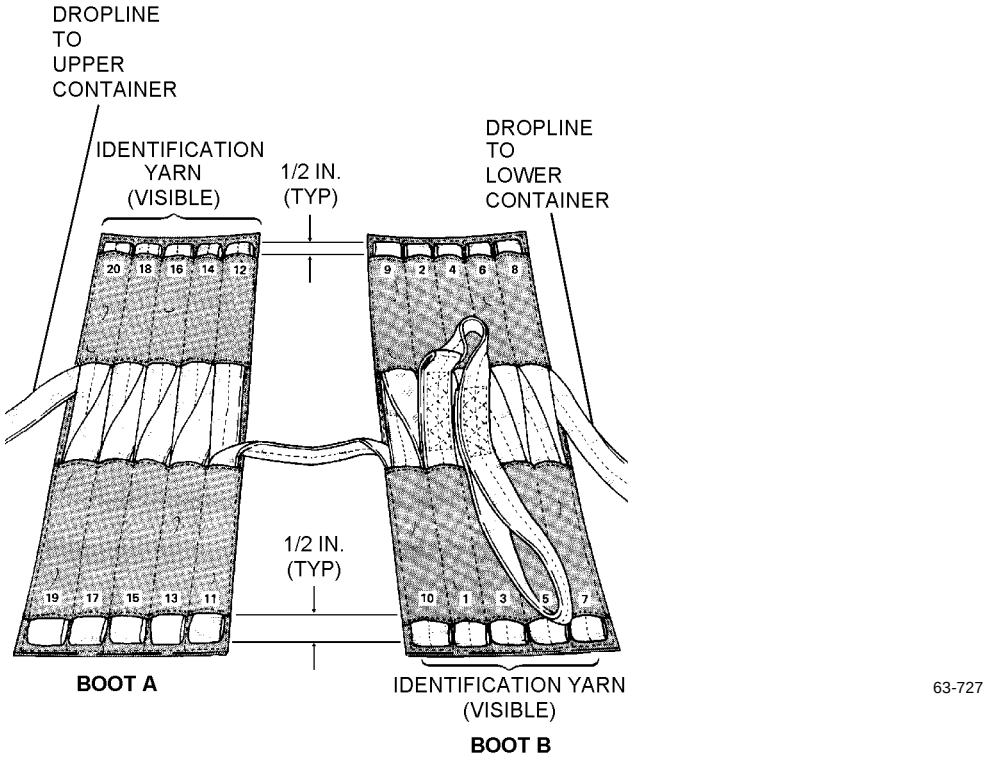


Figure 7-8. Stowage of Dropline

7-24. LIFERAFT PREPARATION, FOLDING, RIGGING AND PACKING. To prepare, fold, rig and pack the LR-1 liferaft, proceed as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Cord, Nylon, Type III 550-pound	MIL-C-5040 NIIN 00-240-2146
As Required	Talc, Technical	MIL-T-50036A
As Required	Thread, Nylon, Type II, Class A, Size E	V-T-295 NIIN 00-244-0609
As Required	Thread, Nylon, Type II, Class A, Size 6	V-T-295 NIIN 00-559-5211
1 (Optional)	Lowering Device, Personnel	CL213D2-1 (or Fabricate IAW NAVAIR 13-1-6.5)

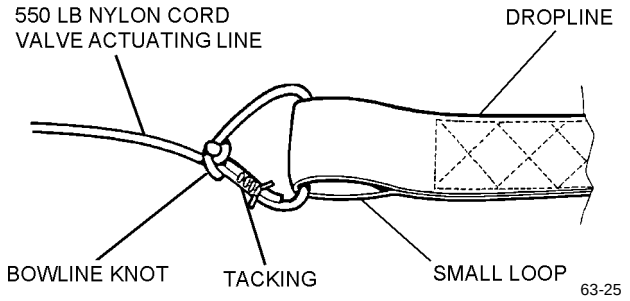
Support Equipment Required

Quantity	Description	Reference Number
1	Wrench, Torque 0-150 lb-in.	TE-6FUA (CAGE 55729)

1. If the valve actuating line is damaged, incorrectly installed or not installed, install new line in accordance with steps 2 and 3.

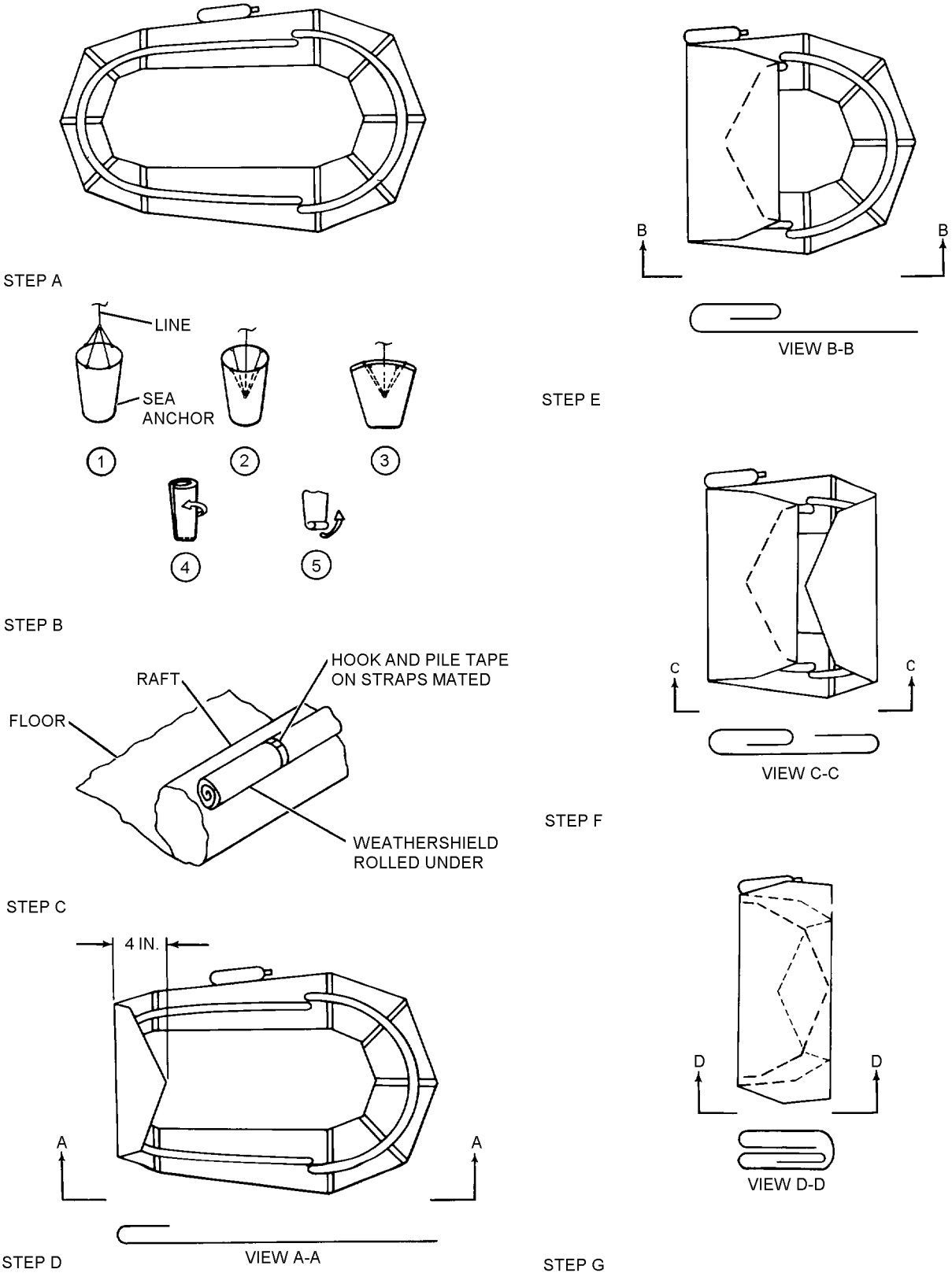
2. Cut 15-inch length of 550-pound nylon cord and sear ends.

3. Route one end through small loop on dropline and tie bowline knot. Tack with three turns of waxed, size E nylon thread, single. Tie ends with surgeon's knot followed by square knot.



Step 3 - Para 7-24

4. Lay raft assembly flat with inside facing upward (step A, figure 7-9).



63-708

Figure 7-9. Folding Liferaft

5. Ensure all trapped air is expelled from liferaft and oral inflation valve is locked and stowed in pocket prior to folding.

6. Lightly dust entire liferaft assembly with talc (MIL-T-50036A).

7. Secure sea anchor line in 3-inch bights; fold and stow in pocket (step B, figure 7-9).

8. Roll and secure weathershield (step C, figure 7-9).

9. Fold liferaft.

a. Fold stern of liferaft over approximately 4 inches (step D, figure 7-9).

b. Fold liferaft over at rear of CO_2 cylinder (step E, figure 7-9).

c. Fold bow of liferaft over to fold formed in step b (Step F, figure 7-9).

d. Fold bow portion of liferaft over on top of previous folds. Maximum width of folded liferaft shall not exceed width of RSSK-1/1A upper container. Adjust folds as necessary (step G, figure 7-9).

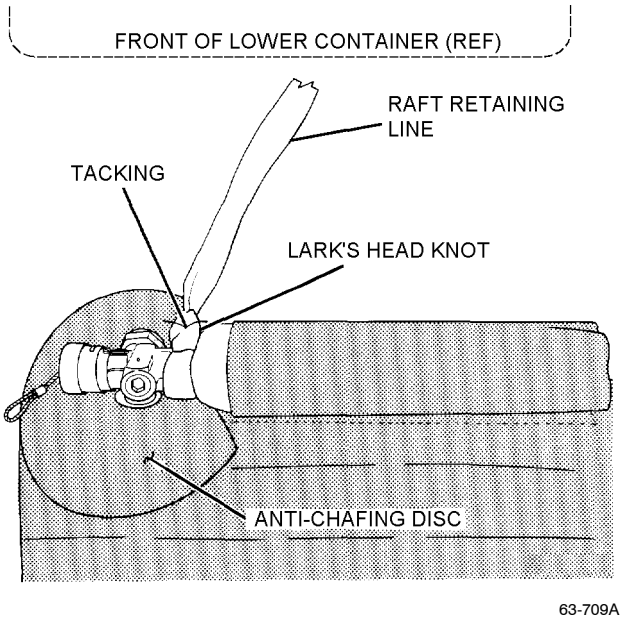
10. Turn folded liferaft over. Place liferaft assembly forward of lower container with carbon dioxide cylinder positioned toward lower container and facing up. Inflation valve assembly shall face release handle side of survival kit.

WARNING

Gas under pressure. Do not loosen or attempt to remove inflation valve assembly from carbon dioxide cylinder.

11. Disconnect inflation valve from liferaft. Do not remove cylinder from stowage pocket. Retain anti-chafing disc on inlet check valve.

12. Attach retaining line to cylinder with lark's head knot. Pull knot tight, and tack with two turns of waxed nylon thread, size 6, single. Tie ends with surgeon's knot followed by square knot.



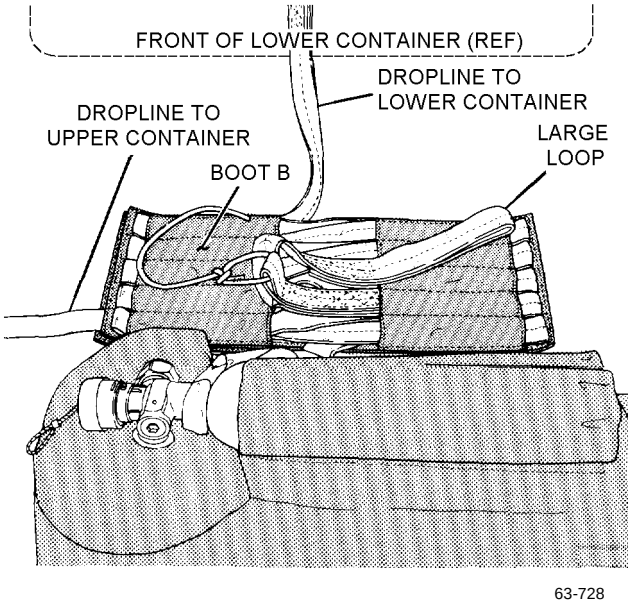
Step 12 - Para 7-24

13. Accordion-fold remainder of retaining line and stow in liferaft retaining line pocket. Close pocket closure tab, and secure with hook and pile tape.

NOTE

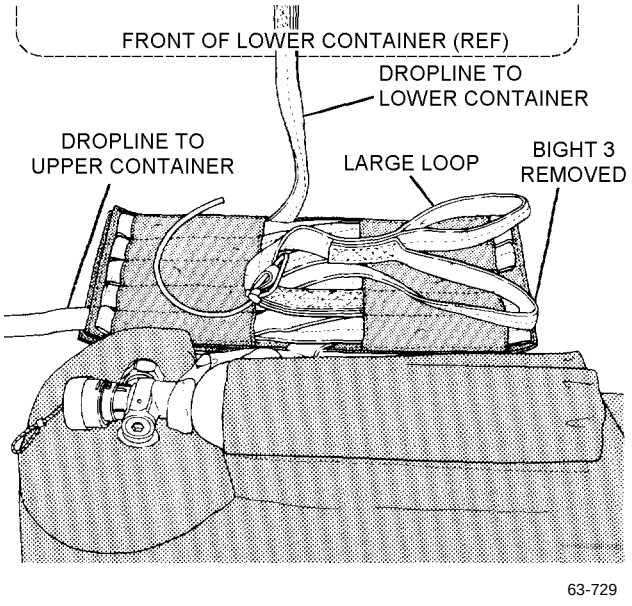
When repositioning boots, it may be necessary to move upper container. Make adjustments as necessary.

14. Position boot B on top of boot A and place boots between liferaft and lower container with large loop of dropline facing to right.



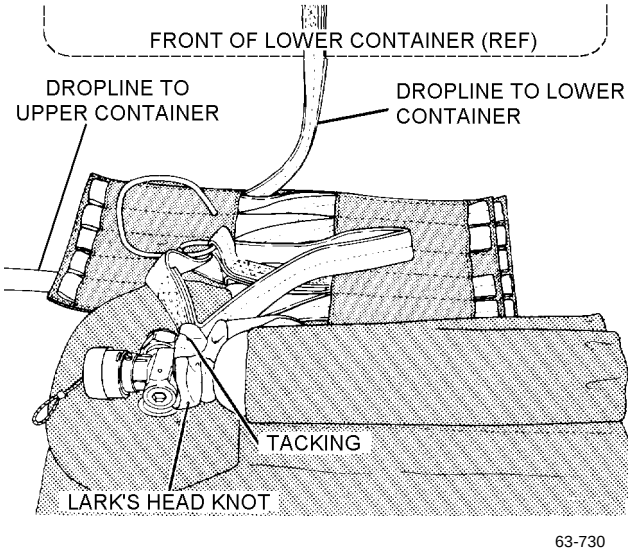
Step 14 - Para 7-24

15. Remove bight from channel 3, boot B.



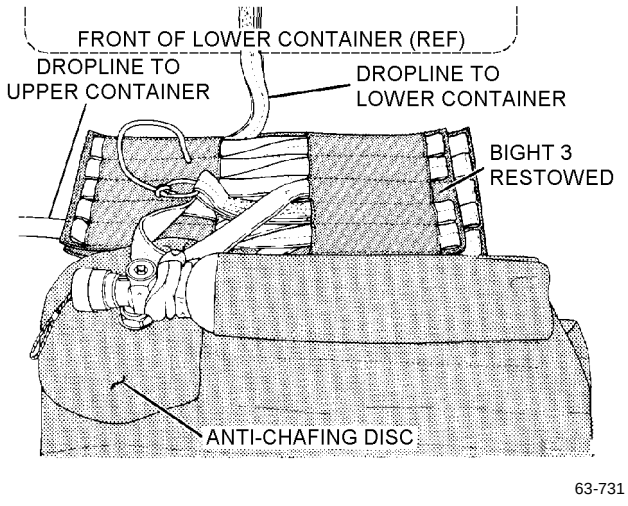
Step 15 - Para 7-24

16. Attach large loop of dropline around neck of inflation valve at cylinder with lark's head knot. Pull knot tight and tack with two turns of waxed nylon thread, size 6, single. Tie ends with a surgeon's knot followed by square knot.



Step 16 - Para 7-24

17. Ensure CO_2 cylinder anti-chafing disc is installed. Attach inflation valve to liferaft inlet valve and tighten coupling nut to a torque value of 80 to 90 in-lbs. Stow bight removed from channel 3 of boot B. Bight will not extend full length of channel.

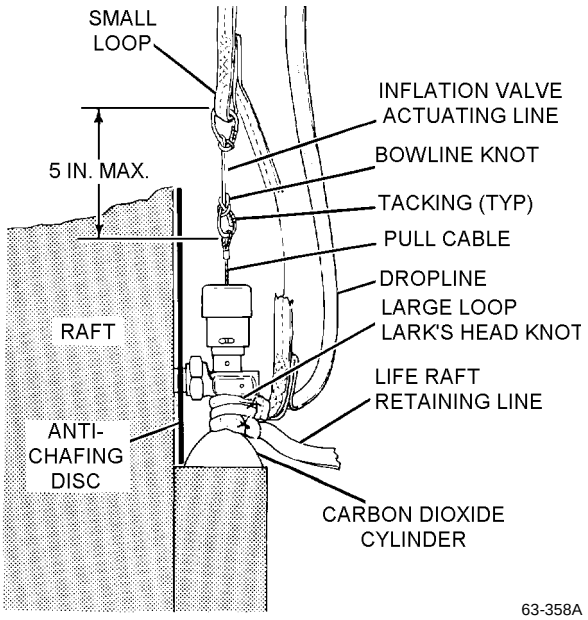


Step 17 - Para 7-24

WARNING

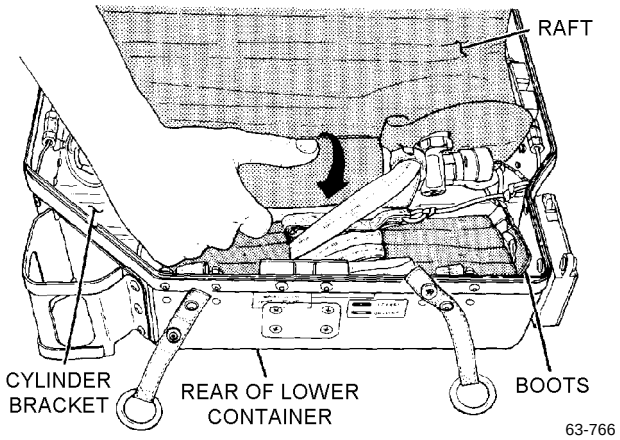
Final dimension of valve actuating line is critical. Finished length shall not exceed 5 inches.

18. Pass actuating line through loop in end of pull cable. Tie a loop using bowline knot. Tack with three turns of waxed nylon thread, size E, single. Tie ends with surgeon's knot followed by square knot. Finished length shall not exceed 5 inches.



Step 18 - Para 7-24

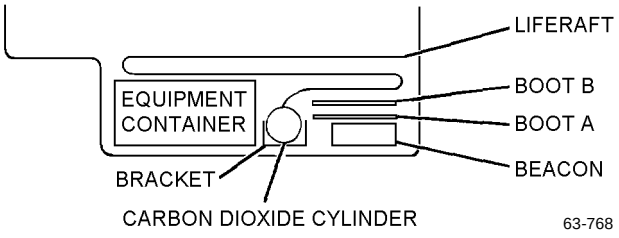
19. Rotate CO_2 cylinder and boot assemblies into rear portion of lower container. Position boot assemblies flat across rear portion on top of radio beacon and place CO_2 cylinder into bracket.



Step 19 - Para 7-24

20. Position excess dropline in such a manner as to avoid any possibility of entanglement.

21. Fold and stow raft as shown.



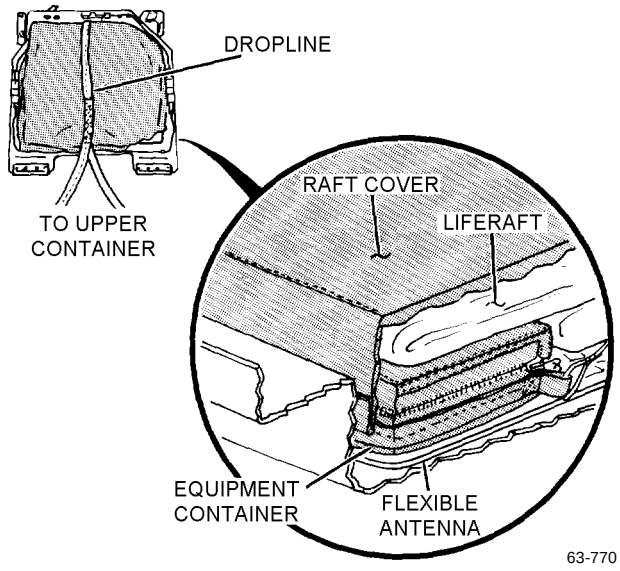
Step 21 - Para 7-24

NOTE

Stow liferaft CO_2 cylinder and boot assemblies simultaneously to avoid unnecessary removal of stowed dropline from boot B and to prevent inadvertent actuation of CO_2 cylinder.

22. Place raft cover over raft and equipment container and tuck cover around raft using a fid to push edges of cover down. Ensure that lid locks are free from obstruction and that raft cover does not protrude beyond edges of container.

23. Ensure flexible antenna is routed around periphery of lower container. Route dropline out rear and across top of lower container.



Step 23 - Para 7-24

NOTE

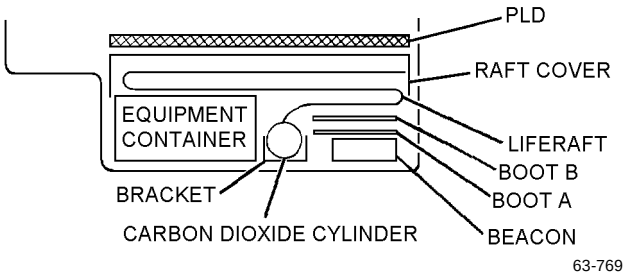
(RSSK-1A ONLY) The PLD (Personnel Lowering Device) is intended for use during survival situations in heavy foliage or jungle areas and may be installed at the discretion of the area/type commander. If the PLD is used, it will be installed as follows.

24. (RSSK-1A) Procure personnel lowering device P/N CL213D2-1 or fabricate in accordance with NAVAIR 13-1-6.5.

NOTE

If PLD is used, SRU-31/P packets must be stowed on aviator. Optional survival items may remain in equipment container as space allows (table 7-2).

25. (RSSK-1A) Place the PLD on top of the packed lower container as shown. Securely tie the PLD retrieving line to the right seat kit upper container footman bracket with a bowline knot and overhand knot. Ensure metal snaps are wrapped in chafing cloth.



Step 25 - Para 7-24

7-25. CLOSING CONTAINER. To close the container, proceed as follows:

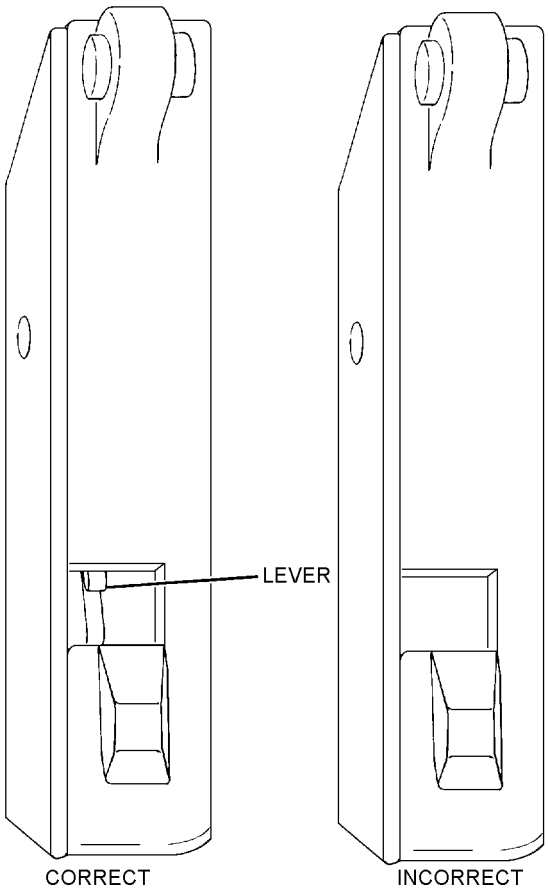
Materials Required

Quantity	Description	Reference Number
As Required	Thread, Nylon, Type II, Class A, Size 6	V-T-295 NIIN 00-559-5211

WARNING

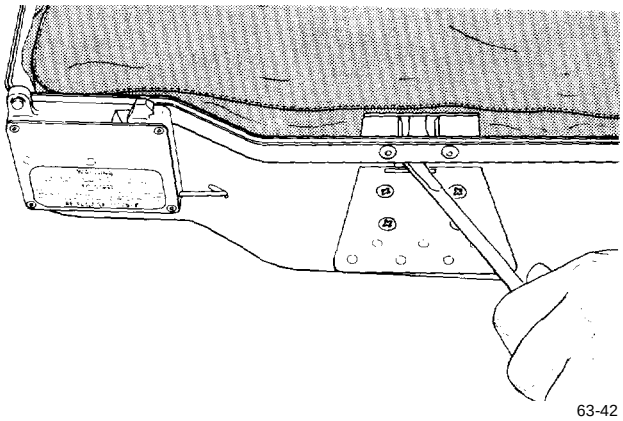
Lever in actuator assembly must be in proper position prior to closing container. Actuator will not open container if lever is not in correct position (RSSK-1A only).

1. Ensure actuating lever is easily visible at hole in top of actuator assembly.



Step 1 - Para 7-25

2. If lever is not visible, actuator assembly must be reset. Insert a screwdriver in manual release hole on starboard side of lower container and move aft. When lever is properly positioned, spring tension on screwdriver will relax. Recheck position through top hole in actuator assembly.



Step 2 - Para 7-25

3. Place upper container on top of lower container.

4. Engage hinges on front of containers.

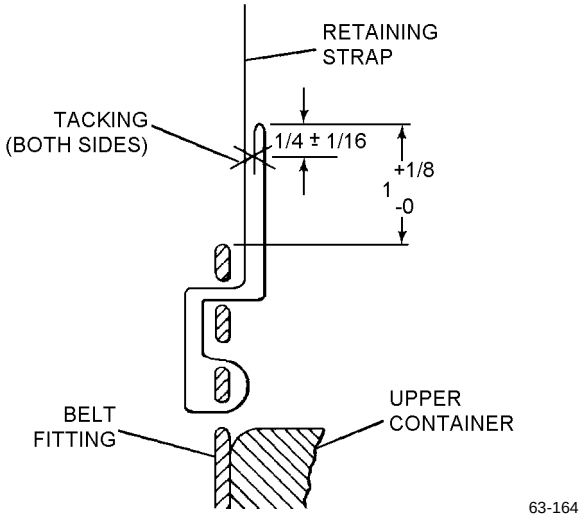
5. While closing container, check extruded metal lip for obstructions.

6. Push down on aft part of upper container.

7. When container is closed, insert kit release handle into actuator assembly and seat. Ensure handle is fully seated and locked. Check three lid lock inspection holes to ensure proper position on RSSK-1A.

8. Examine extruded metal lip around container. All lid locks shall be engaged and seam undistorted. If containers are not properly secured, release handle and repeat steps 2 through 8.

9. Attach retaining straps and tack with nylon thread, size 6, single. Ensure proper reeving of straps as shown. Pull strap through fitting until main portion of belt assembly rests approximately 1 inch from top of fitting.



Step 9 - Para 7-25

NOTE

Lower block assembly will normally be connected when survival kit is installed in aircraft. Installation and interface attachments shall be completed in accordance with applicable Maintenance Instruction Manual (MIM).

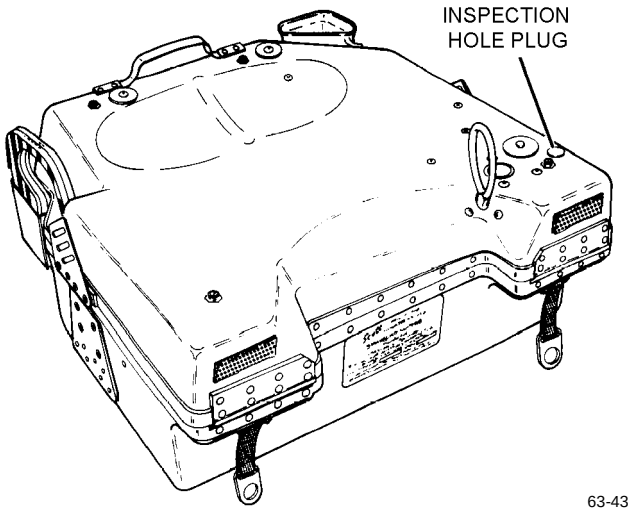
10. To install upper block, pull up on the manual release knob assembly, cocking the upper block locking mechanism. Align upper block with top portion of intermediate block and push into place. When locked, manual release indicator should be flush with top of knob.

11. (RSSK-1A) When used in MK-H7 ejection seats, RSSK-1A shall be weighed by placing a spring scale hook through the carrying handle. Total weight shall be between 40 and 49 pounds. If underweight, kit shall be ballasted by placing a weight in a durable heat-sealed plastic bag and placing bag in the center of lower container, in or under equipment container.

12. Perform release handle pull test in accordance with paragraph 7-26.

13. Examine oxygen gage for full indication. If recharging is necessary, refer to paragraph 7-40.

14. (EAST/WEST RSSK-1A) Remove inspection hole plug.



Step 14 - Para 7-25

WARNING

If reducer toggle has been twisted or forced beyond vertical (cocked) position, carefully reposition toggle. If cables/cable balls are not properly positioned open RSSK-1A and position cables so that toggle is free to move.

15. (EAST/WEST RSSK-1A) Using a flashlight, visually inspect position of reducer toggle (2, figure 7-53); ensure toggle is in the vertical (cocked) position relative to the reducer. Also check position of cable balls; ensure cables/cable balls are not wrapped around reducer toggle and jammed against the inside of kit lid.

16. Ensure inspection hole plug is in place.

17. Attach cushion to top of upper container.

18. Make necessary entries on appropriate form in accordance with OPNAVINST 4790.2 Series.

7-26. Release Handle Pull Test. To perform a release handle pull test, proceed as follows:

Support Equipment Required

Quantity	Description	Reference Number
1	Push/Pull Gage, 0 to 50 Pounds	DPP-50 or DPPH-50 (CAGE 11710)

1. Measure force required to unlatch release handle with push/pull gage. Force required shall be 10 to 30 pounds. Ensure all latches release simultaneously. If latches fail to release simultaneously, refer to paragraph 7-73.

2. Reclose container after pull test.

7-27. COCKPIT ROUTING AND INSTALLATION OF THE EMERGENCY RADIO BEACON LANYARD. Rig emergency radio beacon for automatic actuation as follows:

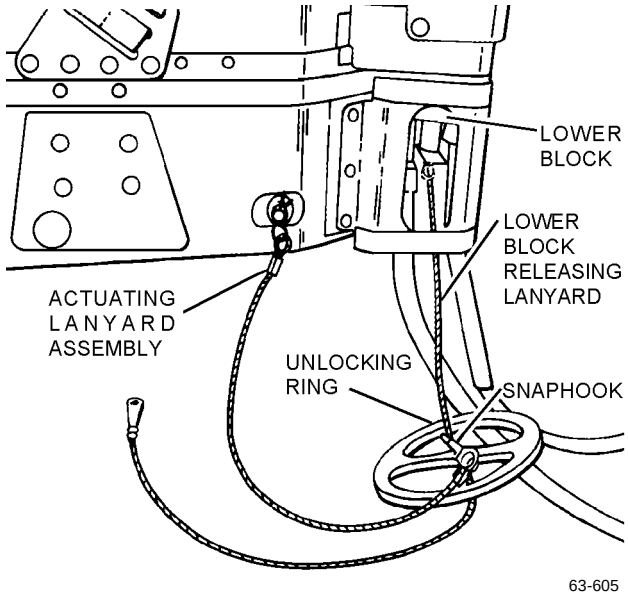
CAUTION

Use extreme care when lowering kit into seat to prevent possible damage to actuator indicator or accidental actuation of beacon.

1. Place assembled RSSK-1/-1A in ejection seat bucket.

2. Elevate rear portion of survival kit enough to gain access to opening in aft left corner of seat bucket. Route snaphook-end of installed beacon actuating lanyard through the opening, then lower kit into position.

3. Connect snaphook at end of actuating lanyard to lower block release lanyard above unlocking ring, as shown.



Step 3 - Para 7-27

4. Verify proper installation of kit into seat and correct routing and connection of automatic actuating lanyard assembly.

Section 7-4. Turnaround/Daily/Preflight/Postflight/Transfer/ Special/Conditional Inspection

7-28. GENERAL.

7-29. The Turnaround/Daily/Preflight/Postflight and Transfer Inspections consist of a visual inspection performed in conjunction with the aircraft inspection requirements for the aircraft in which the survival kit is installed. These inspections shall be performed by line personnel (plane captain) or delegated aircrewmembers who have been instructed and found qualified by the Aviator's Equipment Branch.

7-30. Conditional Inspection is an unscheduled inspection required as the result of a specific situation or set of conditions, e.g., hard-landing inspections or any inspection directed by higher authority that is not ordered in a technical directive.

7-31. The Special (7/14 day, etc.) Inspection shall be performed on inservice survival kits installed in aircraft and in ready room issue. This inspection shall be performed at the Organizational Level of maintenance by personnel assigned to the Aviator's Equipment Branch. Make necessary entries on appropriate form in accordance with OPNAVINST 4790.2 Series.

7-32. TURNAROUND/DAILY/PREFLIGHT/POSTFLIGHT/TRANSFER/SPECIAL INSPECTION PROCEDURES. These inspections consist of a visual inspection of the following:

1. Release handle for proper seating and corrosion.

2. Cushion for secure attachment, rips, tears, and loose or frayed stitching.

3. (East/West RSSK-1A) Lift left side of cushion assembly and remove reducer toggle access plug. Using a flashlight, visually inspect position of toggle; ensure toggle is in vertical (cocked) position relative to the reducer. Also check cables/cable balls for proper routing and engagement; ensure cable balls are not jammed against lid of kit.

4. Check oxygen gage for FULL indication.

5. Replace access plug and cushion assembly.

6. Lower block lanyard for secure attachment to aircraft structure and broken strands in cable.

7. Manual oxygen release for secure attachment (if separating type) and deterioration.

8. Container assembly for cracks, breaks, and other obvious damage.

9. Harness assemblies for loose or frayed webbing, stitching, and loose or broken hardware.

10. Lapbelt release assembly for loose or missing screws and corrosion.

11. Upper block for secure attachment to intermediate block, corrosion, and security of hoses.

12. Lower block for secure attachment to intermediate block, corrosion, and security of hoses.

13. Beacon actuator for bent shaft, and hairpin, cotter for elongation, corrosion, and proper mousing.

14. Secure attachment of beacon automatic actuating lanyard.

7-33. If discrepancies are found or suspected, notify Maintenance Control.

7-34. Survival kits which do not pass inspection and cannot be repaired in the aircraft shall be removed in accordance with applicable aircraft manual and replaced with a Ready For Issue (RFI) survival kit. Non-RFI survival kits shall be forwarded to the nearest maintenance activity having repair capability for corrective action.

Section 7-5. Acceptance/Phased/SDLM/PDM Inspection

7-35. GENERAL.

7-36. An acceptance inspection shall be performed on a survival kit when it is placed into service or at the time a reporting custodian accepts a newly assigned airfcraft from any source and on return of an aircraft from SDLM/PDM or other major D-level rework. The Phased/SDLM/PDM inspection cycle of the survival kit shall be 420 days. In no case, however, shall the phased interval exceed 420 days. The battery test inspection cycle for the AN/URT-33A radio beacon is dependent on the type of battery installed. Refer to NAVAIR 16-30URT33-1 for battery test inspection cycles and requirements. For acceptance inspection purposes, verification of pyrotechnics and configuration is accomplished by visual record examination only. Disassembly beyond the daily inspection requirements of applicable publications is not required. Activities may elect to increase the depth of the inspection if equipment condition, visual external inspection, or record examination indicates such action is warranted.

7-37. VISUAL INSPECTION. This inspection shall be performed prior to the functional check of the kit. Visually check kit for the following:

1. Release handle for wear and corrosion.

2. Cushion for rips, tears, cleanliness, and security of snaps.

3. Upper block for corrosion, damaged threads, cracked parts, and worn or damaged O-rings.

4. Intermediate block for corrosion and cracks, bent or broken pins in electrical connector, and condition of O-rings.

5. Lower block for corrosion and cracks, and lanyard for security of swaged balls and frayed or broken strands.

6. Upper and lower containers for cracks and corrosion.

7. Webbing for loose or frayed stitching and security of attachment.

8. Lapbelt release assembly for loose or missing screws and corrosion.

9. Swaged balls on cable assemblies for security of attachment.

7-38. SWAGED BALL PULL TEST (ACCEPTANCE INSPECTION ONLY). Ensure security of swaged ball attachments on RSSK-1 and RSSK-1A release assemblies using the following procedures. These procedures are typical and adaptable to each kit of the RSSK-1 series.

Materials Required

Quantity	Description	Reference Number
As Required	Cord, Nylon, Type III, 550-Pound	MIL-C-5040 NIIN 00-240-2146

Support Equipment Required

Quantity	Description	Reference Number
1	Gage, Push/Pull, Dial 0-100 Pounds	DPP-100 (CAGE 11710)

1. Remove four attaching screws and remove cover from assembly.

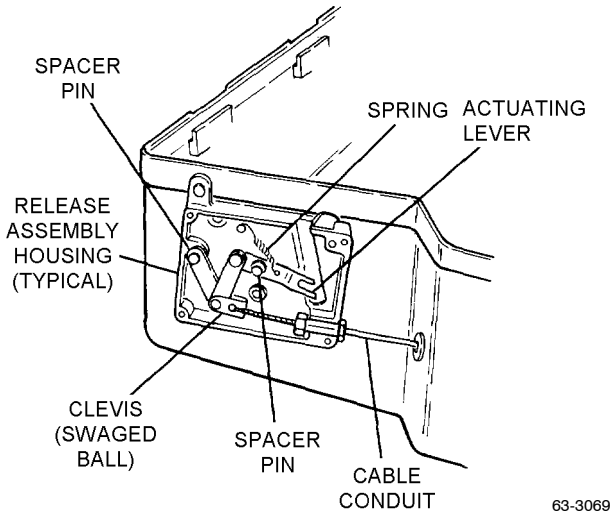
2. Press actuating lever down.

3. Remove spring attached to actuating lever and assembly housing.

4. Remove two spacer pins which mount links and actuating lever to assembly housing.

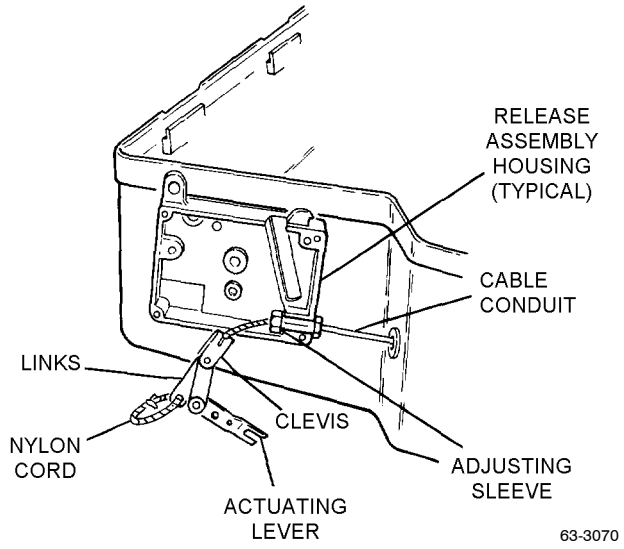
NOTE

Linkage will now be attached only by clevis and cable assembly.



Steps 2 thru 4 - Para 7-38

5. Thread approximately 5 inches of nylon cord through open end of links and tie ends together forming a loop.



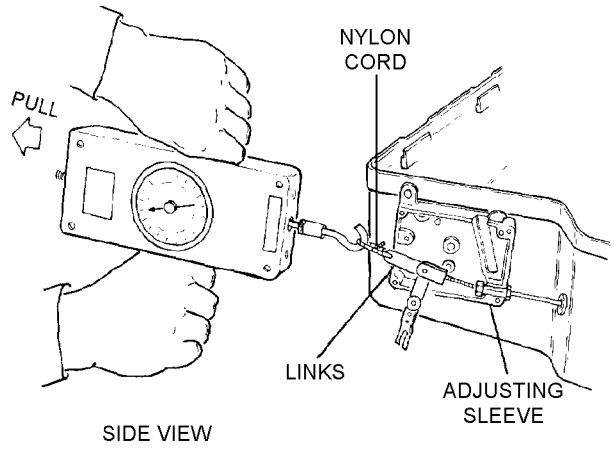
Step 5 - Para 7-38

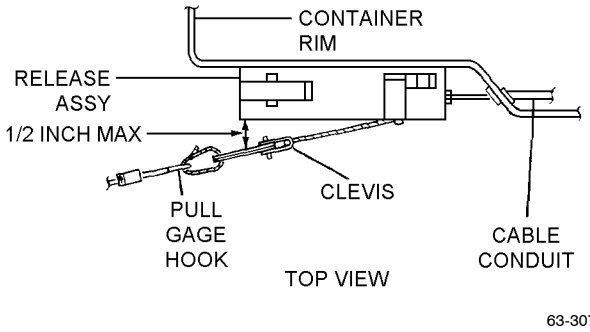
6. Insert hook of push/pull gage into cord loop.

CAUTION

Ensure adjusting sleeve does not move from housing when pull force is exerted.

7. Exert pull force on gage in direction of normal cable operation (toward aft of kit). During pull test ensure that links and clevis are not separated from housing assembly by more than 1/2 inch. Swaged ball shall withstand 100-pound pull force.





Step 7 - Para 7-38

8. If swaged ball fails to meet specified pull force, remove ball from cable and swage new ball in same location. Repeat pull test.

9. Reassemble cable release assembly and reinstall cover.

7-39. FUNCTIONAL CHECK. The functional check shall be performed anytime a kit is placed in service, after any adjustment procedures, or when equipment condition, visual external inspection, or record examination indicates such action is warranted to determine the condition of the kit. To perform a functional check proceed as follows:

CAUTION

Discontinue functional test if seat kit fails to pass any steps of test procedures. Repair malfunction before continuing procedures or damage to seat kit may result. After repair, the entire test procedure shall be performed.

NOTE

A substitute lower block assembly will be required to perform the following functional check.

Materials Required

Quantity	Description	Reference Number
As Required	Leak Detection Compound, Type I	MIL-L-25567
As Required	Lint-free Cloth	MIL-C-85043 NIIN 00-044-9281
As Required	Film, Radiographic	Industrex AA Film, Code AA-2 (CAGE 19139)

Support Equipment Required

Quantity	Description	Reference Number
1	Test Stand	59A120 (CAGE 02551) -or- 31TB1995-1 (CAGE 99251)
1	Dial Push/Pull Gage, 0 to 50 Pounds	DPP-50 -or- DPPH-50 (CAGE 11710)
1	Toggle Reset Tool	Fabricate IAW paragraph 7-83
1	X-ray Apparatus, Radiographic, Industrial, Lightweight, Portable, 150 Kvp Rating	653509 (CAGE 37676)
1	Magnifier, Pocket, 14X	(CAGE 06175)

NOTE

Performance of test stand is dependent upon skill of operator. It is imperative that operator be thoroughly familiar with instruments, controls, and connections that comprise systems incorporated in test stand. See NAVAIR 17-15BC-20 and NAVAIR 13-1-6.4-4 to familiarize yourself with 59A120 or 31TB1995 series liquid oxygen converter test stands

(Rocket Jet and Scott RSSK-1/1A) Original equipment relief valves used on earlier models of RSSK-1/1A were designed to operate in 100 to 130 psi range and reseat with no leakage at 95 psi minimum. Operation of relief valves in this pressure range is not considered unsafe for flight and is acceptable. Future procurement of relief valves for RSSK-1/1A will be in accordance with MIL-V-9050, Type V, with operating range of 120 to 140 psi and will replace 110 to 130 psi relief valves on attrition basis.

Emergency oxygen cylinder pressures used in this functional test were derived under ideal shop conditions of 70°F (21°C). Variances in ambient air temperatures directly affect charging pressures. Refer to table 7-5 for details.

Ensure that emergency oxygen cylinder is filled to 1800 to 2000 psi with oxygen.

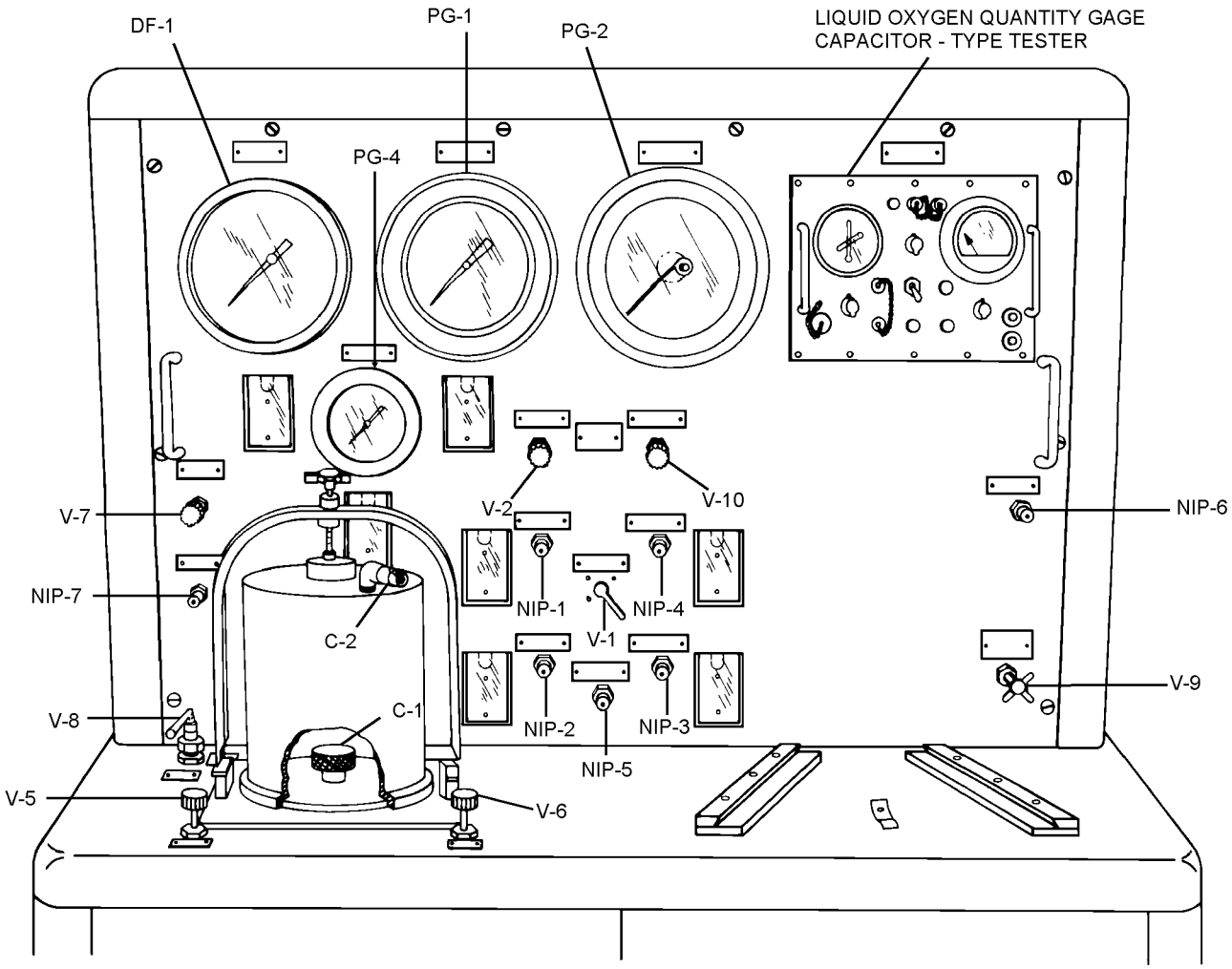
1. Install upper block to intermediate block by pulling up on manual release hand knob, cocking upper block release mechanism. Align upper block with top portion of intermediate block, and push into place. When locked, manual release indicator should be flush with top of knob.

2. Measure force required to disengage upper block from intermediate block with push/pull gage. Force required shall be 10 to 20 pounds.

3. Reinstall upper block on intermediate block.

4. Remove bell jar and connect oxygen outlet hose of kit to fitting (C-1). Ensure that valve (V-2) is open and all other test stand valves are closed (figure 7-10).

5. Attach push/pull gage to manual emergency oxygen release handle.



C-1	BELL JAR BOTTOM COUPLING	PG-2	FLOWMETER INDICATOR GAGE
C-2	BELL JAR TOP COUPLING	PG-4	0 – 15 PSIG LOW PRESSURE TEST GAGE
DF-1	0 – 100" H_2O DIFFERENTIAL PRESSURE GAGE	V-1	FLOWMETER SELECTOR GAGE
NIP-1	0 – 0.25 LPM FLOWMETER CONNECTION	V-2	TEST PRESSURE GAGE TO BELL JAR VALVE
NIP-2	0 – 1 LPM FLOWMETER CONNECTION	V-5	SYSTEM BLEED VALVE
NIP-3	0 – 50 LPM FLOWMETER CONNECTION	V-6	OXYGEN SUPPLY VALVE
NIP-4	0 – 150 LPM FLOWMETER CONNECTION	V-7	DIFFERENTIAL PRESSURE BLEED VALVE
NIP-5	CONVERTER SUPPLY OUTLET CONNECTION	V-8	DIFFERENTIAL PRESSURE SHUT-OFF VALVE
NIP-6	SUPPLY TO CONVERTER CONNECTION	V-9	CONVERTER SUPPLY FLOW CONTROL VALVE
NIP-7	DIFFERENTIAL PRESSURE GAGE CONNECTION	V-10	TEST PRESSURE GAGE BUILD-UP AND FLOW VALVE
PG-1	0 – 160 PSIG TEST PRESSURE GAGE		

63-578

Figure 7-10. Test Stand Model 59A120

6. Measure force required to disengage manual oxygen release. Force required shall be 10 to 30 pounds, and emergency oxygen system shall actuate and indicate 45 to 80 psi on gage (PG-1) on test stand.

7. Reinstall manual oxygen release (if separating type) and reset reducer/manifold.

8. Turn on oxygen supply cylinder to test stand.

9. Slowly open valve (V-6) on test stand and adjust pressure on gage (PG-1) to 90 psi.

10. Measure the force required to disengage the manual oxygen release with a scale. Force required shall be 10 to 30 pounds.

WARNING

Before use, inspect leak detection compound. Compound which is not clear and free from suspended material/sediment is considered contaminated and shall be disposed of. Compound exhibiting peculiar odors, such as acetone or alcohol, is considered contaminated and shall be disposed of.

NOTE

Any degree of leakage in the oxygen system requires corrective maintenance.

11. Using leak detection compound, check all pressure lines and fittings on kit to ensure no leakage.

12. Reinstall manual oxygen release (if separating type) and reset reducer/manifold.

CAUTION

Do not increase pressure above 150 psi.

13. Using valve (V-6), increase pressure until relief valve unseats.

NOTE

Unseating can be determined by listening and observing gage (PG-1) on test stand.

14. Repeat step 13 several times to establish a correct pressure. Relief valve shall unseat at 120 to 140 psi when pressure is increased and reset at 110 psi minimum when pressure is decreased. Once reset, relief valve shall be leak tight.

NOTE

Pressure may be reduced below opening pressure of relief valve by closing valve (V-6) and opening valve (V-5).

15. Check relief valve with leak detection compound to ensure no leakage.

16. Close valve (V-6) and bleed oxygen pressure from system by opening valve (V-5). All pressure is bled when gages (PG-1) and (PG-4) indicate zero pressure.

17. Close valve (V-5).

18. Install lower block to intermediate block by pulling down on lower block release lanyard, cocking the lower block locking mechanism. Align block with underside of intermediate block and push into place, observing locking indicator flag. When blocks are locked together, flag becomes rigid in a horizontal position.

19. Install upper block on intermediate block.

20. Ensure valve (V-2) is opened and all other test stand valves are closed.

21. Measure force required to disengage lower block from intermediate block with a scale. Force required shall be 10 to 30 pounds and emergency oxygen system shall actuate and indicate 45 to 80 psi on gage (PG-1) on test stand.

22. Reset reducer/manifold.

23. Open valve (V-5), and ensure that all other test stand valves are closed.

24. Actuate toggle on reducer to ensure positive flow through valve (V-5). Reset reducer assembly.

25. Open valve (V-8).

26. Slowly close valve (V-5), while observing gage (DF-1).

NOTE

Observe gage (DF-1) for two minutes to ensure no leakage. Any pressure rise indicates leakage in the reducer valve seat and requires corrective maintenance.

27. Close valve (V-8), open valve (V-5), and disconnect oxygen outlet hose from fitting (C-1).

28. Ensure all valves on the test stand are secured.

29. Connect oxygen outlet hose to fitting (NIP-6). Ensure that valve (V-10) is open and all other test stand valves are closed.

30. Connect test stand hose to fitting (NIP-5) and fitting (NIP-4).

31. Move valve (V-1) to the (NIP-4) position.

32. Ensure that 1800 to 2000 psi is in oxygen cylinder of kit.

33. Pull manual oxygen release. Slowly open valve (V-9) to indicate 90 LPM on gage (PG-2). Oxygen pressure shall indicate 45 to 80 psi on gage (PG-1).

NOTE

When needle of cylinder pressure gage is between E and F of REFILL, pressure is approximately 250 psi.

34. Observe emergency oxygen cylinder pressure gage and allow system pressure to decrease to 250 psi while maintaining 90 LPM and 45 to 80 psi pressure.

35. Close valve (V-9).

WARNING

(EAST/WEST KIT) Ensure toggle arm is placed upright (not canted, turned, or over cocked) and positioned such that it will trip directly towards cable guide bracket.

36. With zero flow indicated on gage (PG-2), pressure indicated on gage (PG-1) shall be 45 to 80 psi.

37. Forward oxygen release handles (Scott P/N 21833-03 and Rocket Jet P/N 283190) to x-ray nondestructive testing shop and assure handles are radiographically inspected in accordance with following procedures:

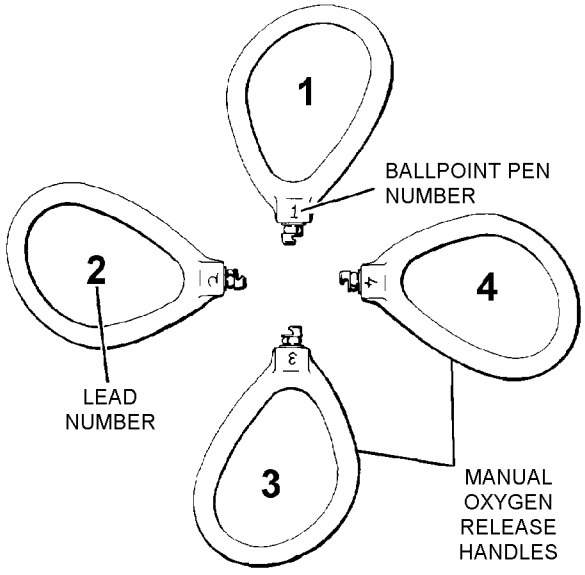
a. Place AA film on lead sheet of 0.010-inch or greater thickness.

NOTE

If connector ends do not lie flat against film, raise loop of assemblies and support with vertical strip of cardboard of sufficient height to cause connector ends to lie flat against film.

b. Place four or less release assemblies flat on film with connector ends located near each other in center of film to form a four-leaf clover pattern with no overlap of connector ends.

c. Identify each release assembly by writing a number, 1 to 100, on each release assembly with ballpoint pen. Place a corresponding lead number on x-ray film inside open area of loop.



Step 37c - Para 7-39

d. Support x-ray tube with active end 36 inches directly above center of film.

NOTE

Parameters serve as exposure guidelines and may vary with film processing conditions, film age, and differences in x-ray equipment.

e. Expose film for 30 seconds at 80 kV, 3 mA.

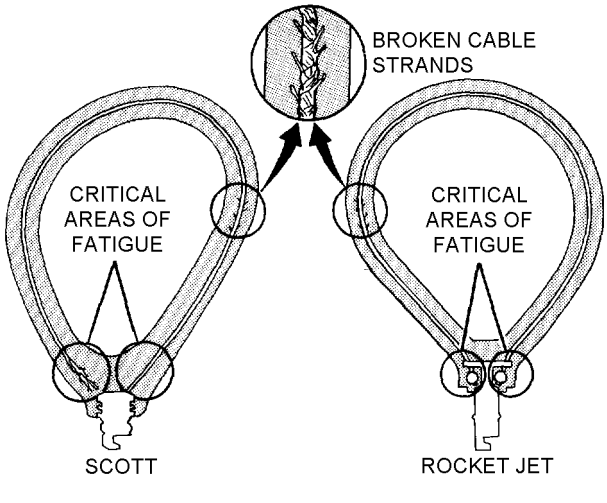
f. Obtain a film density of 1.8 to 2.2 on film image of rubber jacketing material.

g. Raise connector ends 1 inch above film and rotate loop of release assembly approximately 60 degrees, using masking tape to hold assembly in the described position for inspection. Repeat steps a through f to obtain a second radiograph to show failed cable strands which may be located on the top and bottom side of the cable.

WARNING

Any deformation, free strands, or broken cable shall be cause for rejection of the release assembly.

h. View processed films with 14X magnifier to identify failed or free strands, deformation, or broken cable. Any free strands, deformation, or broken cable shall be cause for rejection of the release assembly.



Step 37h - Para 7-39

38. Visually check rubber molding on release assembly for signs of deterioration/deformation.

39. Reinstall manual oxygen release (if separating type), and reset reducer/manifold.

40. Bleed oxygen pressure from system by opening valves (V-5) and (V-2). All pressure is bled when gages (PG-1) and (PG-4) indicate zero pressure.

41. Disconnect kit from test stand.

42. Secure test stand.

43. Thoroughly wipe clean all areas where leak detection compound was applied. Dry with lint-free cloth, filtered low pressure compressed air, or low pressure nitrogen.

44. Recharge emergency oxygen cylinder to 1800 to 2000 psi. Refer to paragraph 7-40 for charging procedures.

45. Perform release handle pull test on fully packed kit in accordance with paragraph 7-26.

7-40. PURGING AND CHARGING EMERGENCY OXYGEN SYSTEM. To purge and charge the emergency oxygen system, proceed as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Leak Detection Compound, Type I	MIL-L-25567
As Required	Nitrogen, Type I, Class 1, Grade B	BB-N-411
As Required	Aviator's Breathing Oxygen, Type I	MIL-O-27210

Support Equipment Required

Quantity	Description	Reference Number
1	Oxygen Purging Electric Heater	C5378 (CAGE 96787) or equivalent
1	Shut-off Valve	—
1	Pressure Regulator	—
1	Adapter, Filling	21000T130-1 (CAGE 53655)

WARNING

Servicing of emergency oxygen system is accomplished only after removal of personnel parachute and survival kit from aircraft.

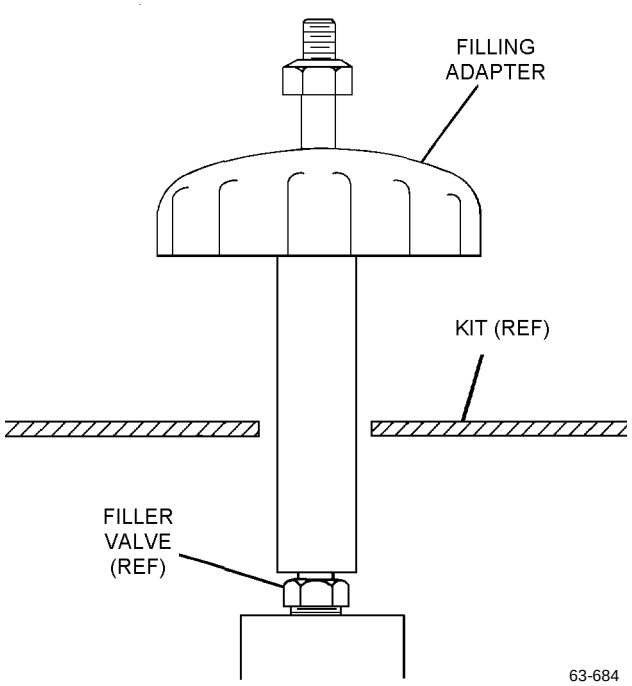
Before use, inspect leak detection compound. Compound which is not clear and free from suspended material/sediment is considered contaminated and shall be disposed of. Compound exhibiting peculiar odors, such as acetone or alcohol, is considered contaminated and shall be disposed of.

1. If survival kit assembly has not been removed from aircraft, remove personnel parachute and survival kit in accordance with applicable maintenance manual.

WARNING

If necessary to release pressure in oxygen bottle before purging/filling, pull emergency oxygen lanyard. This releases pressure through pressure reducer. DO NOT release pressure through filler valve or adapter. Releasing high-pressure oxygen through restriction of filler valve causes heat. Fire or explosion may result.

2. Remove oxygen filler valve cap and connect filling adapter to filler valve.



Step 2 - Para 40

NOTE

If the emergency oxygen system is contaminated or the cylinder has remained empty for more than 2 hours, purging is required. If an emergency oxygen cylinder does not warrant the purging process proceed to step 9 for charging sequence.

3. Deplete emergency oxygen cylinder if necessary.

4. Connect nitrogen source to filling adapter, and close pressure reducer.

NOTE

If relief valve on Oxygen Purging Electric Heater will not allow 100 psi, raise pressure only to allowable limit.

5. Slowly pressurize to 100 psi with nitrogen at temperature of 110° to 130°C (230° to 266°F) using electric heater.

6. Turn off nitrogen source and deplete oxygen cylinder.

7. Repeat steps 5 and 6, twice.

8. Turn off nitrogen source and disconnect.

9. Connect oxygen source to filling adapter with suitable pressure regulator and shut-off valve.

WARNING

When resetting reducer toggle ensure toggle is in the vertical (cocked) position and ensure cables and cable balls are not wrapped around reducer toggle and jammed against the inside of the kit lid.

10. Reset pressure reducer toggle and ensure toggle is in the vertical (cocked) position and cables and cable balls are not wrapped around reducer toggle and jammed against the inside of the kit lid.

11. Slowly pressurize to 100 psi.

12. Deplete cylinder to 50 psi.

13. Ensure that minimum slack exists in actuating cables of reducer/manifold, yet enough to ensure full engagement of toggle arm.

WARNING

Observe filling stages as rapid application of oxygen pressure creates heat which may result in fire or explosion.

Allow no less than 3 minutes for each filling stage and 2 minute intervals for cooling between stages.

NOTE

If kit is to be stored, the emergency oxygen bottle shall be depleted or filled to 200 PSI (when needle on gage bisects E on refill). For shipping, fill or deplete to 25 PSI using the gage on the oxygen refill cylinder.

14. Charge emergency oxygen system in stages in accordance with table 7-4 until pressure gage indicates correct pressure for existing ambient temperature (table 7-5).

Table 7-4. Charging Stages

Stage	PSI
1	500
2	1000
3	1500
4	1800
5	2000

Table 7-5. Ambient Air Temperature Vs Charging Pressures

Ambient Air Temperature		Charging Pressure
°F	°C	PSI
0	-18	1550-1750
10	-12	1600-1775
20	-7	1625-1800
30	-1	1675-1850
40	5	1700-1875
50	10	1725-1925
60	16	1775-1975
70	21	1800-2000
80	27	1825-2050
90	32	1875-2075
100	38	1900-2125
110	43	1925-2150
120	49	1975-2200
130	54	2000-2225

WARNING

Visually ensure that filler valve does not turn as filling adapter is removed. Serious injury could result.

15. Loosen filling adapter until all pressure is bled from high-pressure line. Remove filling adapter.

NOTE

Alternate Fill Valve P/N 9120097-27 is coreless and has a maximum leakage rate of 1 cc/hr. This will be evident by very tiny bubbles passing though the top of the valve when leak detection compound is applied level to the top rim. No leaks around the threads are acceptable. If large bubbles are evident, contact survival kit FST for disposition.

16. Apply leak detection compound around filler valve, gage and reducer and check for leaks. After check, thoroughly wipe clean all areas where leak detection compound was applied. Dry with lint-free cloth, filtered low pressure compressed air, or low pressure nitrogen.

17. Replace oxygen filler valve cap on filler valve.

18. If the personnel parachute and survival kit assembly were removed in step 1, reinstall using the applicable maintenance manual.

Section 7-6. Maintenance

7-41. GENERAL.

WARNING

Keep working area clean and free of oil, grease and dirt. Do not attempt to perform any component removal with the oxygen system pressurized.

NOTE

Unless otherwise indicated, the maintenance instructions set forth in this section shall apply to all RSSK-1/1A Kits.

7-42. This section contains procedures for troubleshooting, disassembly, cleaning, inspection of disassembled parts, repair or replacement of parts, assembly and adjustment. Disassemble only to extent required to perform task. Work shall be performed in a clean, dust and grease-free area.

7-43. TROUBLESHOOTING.

7-44. Where troubles or operating malfunctions are encountered, locate probable cause and remedy using table 7-6 for Rocket Jet and Scott assemblies and table 7-7 for East/West assemblies.

7-45. DISASSEMBLY.

7-46. Disassemble the kit using the index numbers assigned to figures 7-24 through 7-33 for Rocket Jet RSSK-1A, figures 7-34 through 7-40 for Scott RSSK-1A, figures 7-41 through 7-47 for Scott RSSK-1, and figures 7-48 through 7-55 for East/West RSSK-1A. Disassemble the kit only as far as necessary to repair or correct any malfunctions or discrepancies.

NOTE

Discard all O-rings, seals, cotter pins, and Teflon sealing tape removed from oxygen connections during disassembly. Discard any threaded inserts, rivets, rubber pads, seals, molding, or hook and pile fastener tape removed during disassembly of kit.

7-47. Disassembly of Reducer/Manifold Assembly. (East/West Only) The following procedures disassemble the reducer/manifold assembly into four major areas: removal of oxygen gage, filler valve, plug, and adapter; removal and disassembly of adjustment assembly; disassembly of high pressure assembly; and disassembly of low pressure assembly. Determine the area of malfunction using table 7-7 and disassemble only to the extent necessary to replace the defective component. See figure 7-11, and proceed as follows:

Support Equipment Required

Quantity	Description	Reference Number
1	Pressure Reducer Tool Set (figure 7-12)	T216D900-1 (CAGE 30941) NIIN 01-100-8298
1	Retaining Ring Pliers	S0100 (CAGE 79136)
1	Retaining Ring Pliers	SL0100 (CAGE 79136)
1	Toggle Reset Tool	Fabricate IAW paragraph 7-83
1	Hex Key, 5/32-Inch	—

Table 7-6. Troubleshooting (Rocket Jet and Scott Only)

Trouble	Probable Cause	Remedy
Upper, intermediate and lower blocks leaking during tests.	Faulty packings.	Replace packings as required.
Upper block fails to separate from intermediate block when release knob is pulled.	Faulty lock pin (20, figure 7-27; 18, figure 7-37; 18, figure 7-44).	Replace lock pin.
	Faulty lanyard (12 thru 19, figure 7-27; 8 thru 17, figure 7-37; 8 thru 17, figure 7-44).	Replace faulty parts.
Unable to connect upper block with intermediate block.	Faulty lock pin (20, figure 7-27; 18, figure 7-37; 18, figure 7-44).	Replace lock pin.
	Inserts (12 and 13, figure 7-39; 17 and 18, figure 7-46) not properly shimmed (Scott only).	Check shims in accordance with paragraph 7-62.
Unable to connect or separate lower block from intermediate block.	Faulty lock pin (12, figure 7-28; 16, figure 7-38; 12, figure 7-45).	Replace lock pin.
Emergency oxygen does not actuate when manual oxygen release is pulled.	Cable broken.	Replace cable.
	Release not engaged in fitting.	Install correctly or replace.
	Reducer/Manifold Cables incorrectly adjusted.	(Rocket Jet) Adjust in accordance with paragraph 7-74.
		(Scott) Adjust in accordance with paragraph 7-76.
Upper container fails to separate from lower container when release handle is pulled.	Cable within lid locks broken.	Replace cables.
	Crushed cables (11 thru 13, figure 7-25; 29, 47, 51, figure 7-35; 3 and 5, figure 7-42).	Replace cables.
	Damaged lid locks.	Replace lid locks.
	Lid locks incorrectly adjusted.	Adjust lid locks in accordance with paragraph 7-73.
	Faulty release handle.	Replace release handle.
Unable to install release handle.	Release assembly lever incorrectly positioned.	Adjust lever in accordance with decal on release.
Unable to obtain proper adjustment of lapbelt assembly.	Faulty lapbelt adjuster.	Inspect/replace lapbelt adjusters in accordance with paragraph 7-58.
	Improper routing of webbing.	

Table 7-6. Troubleshooting (Rocket Jet and Scott Only) (Cont)

Trouble	Probable Cause	Remedy
Low or zero indication on pressure gage.	Cylinder empty.	Charge cylinder.
	Defective gage.	Replace gage.
	Leaking components or leaking filler valve core.	Tighten connections or replace filler valve core in accordance with paragraph 7-57
Emergency oxygen does not actuate when lower block separates from intermediate block.	Upper block not locked with intermediate block.	Install correctly.
	Lanyard between intermediate block and toggle arm broken or incorrectly adjusted.	(Rocket Jet) Replace lanyard or adjust in accordance with paragraph 7-74.
		(Scott) Replace lanyard or adjust in accordance with paragraph 7-76.
Emergency oxygen pressure not within 45 to 80 psi.	Defective reducer/manifold.	Replace reducer/manifold.
	Reducer/manifold incorrectly adjusted.	Adjust in accordance with paragraph 7-65.
Emergency oxygen relief valve does not operate within 120 to 140 psi.	Defective relief valve.	Replace relief valve.
Loss of aircraft communications.	Broken or misaligned pins in intermediate block electrical receptacle.	Inspect in accordance with paragraph 7-79 and replace as necessary.
	Broken or misaligned pins in electrical cable of lower block.	Inspect in accordance with paragraph 7-79 and replace as necessary.
	Broken or misaligned pins in electrical cable of upper block.	Inspect in accordance with paragraph 7-79 and replace as necessary.
	Broken or misaligned pins and sockets in hose connector. Open or short circuit in oxygen hose wiring.	Inspect in accordance with chapter 4 and replace as necessary.
Pull force to actuate emergency oxygen system by emergency oxygen lanyard or emergency manual oxygen release is not within tolerance of 10 to 30 pounds.	Burrs and corrosion on terminal assembly (46, figure 7-26; 23, figure 7-36; 5, figure 7-41).	Polish off burrs and corrosion and lubricate.

Table 7-7. Troubleshooting (East/West Only)

Trouble	Probable Cause	Remedy
Upper container fails to separate from lower container when release handle is pulled.	Cable within lid locks broken.	Replace cable.
	Crushed conduit/cable assemblies (5, 6, and 11, figure 7-54).	Replace conduit/cable assemblies.
	Damaged lid locks.	Replace lid lock body assemblies.
	Lid locks incorrectly adjusted.	Adjust lid locks in accordance with paragraph 7-73.
	Faulty release handle.	Replace release handle.
Lid locks fail to release simultaneously.	Lid lock out of adjustment.	Adjust lid lock in accordance with paragraph 7-73.
Unable to install release handle.	Release actuating lever incorrectly positioned.	Remove handle, then insert screwdriver into manual release slot, and activate release in accordance with paragraph 7-25.
Low or zero indication on pressure gage.	Cylinder empty.	Charge cylinder in accordance with paragraph 7-40.
	Defective gage.	Replace gage.
	Leaking components or leaking filler valve core.	Tighten connections or replace filler valve core in accordance with paragraph 7-57.
Upper block fails to separate from intermediate block when release knob is pulled.	Faulty lock pin assembly (18, figure 7-49).	Replace lock pin assembly.
	Faulty manual release (8 thru 17, figure 7-49).	Replace faulty parts.
Unable to connect upper block with intermediate block.	Faulty lock pin assembly (18, figure 7-49).	Replace lock pin assembly.
	Inserts (12 and 13, figure 7-52) not properly shimmed.	Check shims in accordance with paragraph 7-62.
Unable to obtain proper adjustment of lapbelt assembly.	Faulty lapbelt adjuster.	Inspect/replace lapbelt adjusters in accordance with paragraph 7-58.
	Improper routing of webbing.	
Unable to connect or separate lower block from intermediate block.	Faulty lock pin assembly (16, figure 7-50).	Replace lock pin assembly.
Upper, intermediate, and lower blocks leaking during tests.	Faulty packings.	Replace packings as required.
Emergency oxygen does not actuate when lower block separates from intermediate block.	Upper block not locked with intermediate block.	Install correctly.
	Lanyard between intermediate block and toggle arm broken or incorrectly adjusted.	Replace lanyard or adjust in accordance with paragraph 7-75.

Table 7-7. Troubleshooting (East/West Only) (Cont)

Trouble	Probable Cause	Remedy
Emergency oxygen does not actuate when lower block separates from intermediate block. (Cont)	Reducer toggle arm overcocked, canted, or turned.	Inspect and adjust in accordance with paragraph 7-75.
	Cable balls may be wrapped around reducer toggle and jammed against inside of kit lid.	
Emergency oxygen does not actuate when manual release is pulled.	Crushed or broken conduit/cable assembly (22, figure 7-51).	Replace actuator assembly.
	Reducer toggle arm overcocked, canted or turned.	Reposition toggle.
	Cable balls may be wrapped around reducer toggle and jammed against inside of kit lid.	Inspect manual cable assembly and reposition.
		Inspect and adjust the automatic emergency oxygen release in accordance with paragraph 7-75.
Pull force to actuate emergency oxygen by the manual emergency oxygen release (green ring) is not within tolerance of 10 to 30 pounds.	Crushed conduit/cable assembly (22, figure 7-51).	Replace actuator assembly.
Relief valve does not relieve between 120 to 140 psi operating range and reseat at 110 psi minimum.	Relief incorrectly adjusted.	Adjust relief valve in accordance with paragraph 7-78.
	Defective relief valve.	Replace relief valve.
Relief valve leakage.	Scored seat.	Replace relief valve.
	Defective valve.	
Loss of aircraft communications.	Broken or misaligned pins in intermediate block electrical receptacle.	Inspect in accordance with paragraph 7-79 and replace as necessary.
	Broken or misaligned pins on electrical cable of lower block.	Inspect in accordance with paragraph 7-79 and replace as necessary.
	Broken or misaligned pins on electrical cable of upper block.	Inspect in accordance with paragraph 7-79 and replace as necessary.
	Broken or misaligned pins and sockets in hose connector. Open or short circuit in oxygen hose wiring.	Inspect in accordance with chapter 4 and replace as necessary.
No oxygen output pressure with pressure reducer actuated.	Weak or broken spring (7, figure 7-53) in pressure reducer.	Bleed system; disassemble in accordance with paragraph 7-47 and replace spring.
	Pressure reducer out of adjustment.	Adjust pressure reducer in accordance with paragraph 7-77.

Table 7-7. Troubleshooting (East/West Only) (Cont)

Trouble	Probable Cause	Remedy
No oxygen output pressure with pressure reducer actuated. (Cont)	Defective oxygen gage.	Bleed system; replace oxygen gage.
	Foreign matter in output flow path.	Bleed system; disassemble in accordance with paragraph 7-47 and clean.
	Poppet (17, figure 7-53) does not extend into position.	Bleed system; disassemble in accordance with paragraph 7-47 and replace poppet and seat.
Oxygen system output pressure not within 45 to 80 psig limits.	Pressure reducer out of adjustment.	Adjust pressure reducer in accordance with paragraph 7-77.
	Weak or broken poppet spring (16, figure 7-53) in pressure reducer.	Bleed system; disassemble in accordance with paragraph 7-47 and replace poppet spring.
	Defective pressure reducer.	Replace reducer.
Pulsating pressure at outlet port.	Bent plunger (8, figure 7-53).	Bleed system; disassemble in accordance with paragraph 7-47 and replace plunger.
Oxygen system leaking; low pressure side of reducer.	Defective O-ring (11, figure 7-53).	Bleed system; disassemble in accordance with paragraph 7-47 and replace O-ring.
	Weak or broken spring (16, figure 7-53) in pressure reducer.	Bleed system; disassemble in accordance with paragraph 7-47 and replace poppet spring.
Pressure reducer will not shut off.	Bent poppet (17, figure 7-53).	Bleed system; disassemble in accordance with paragraph 7-47 and replace poppet.
	Broken poppet spring (16, figure 7-53).	Bleed system; disassemble in accordance with paragraph 7-47 and replace poppet spring.
	Dirt.	Bleed system; disassemble in accordance with paragraph 7-47 and clean.
	Misaligned seat (20, figure 7-53).	Bleed system; disassemble in accordance with paragraph 7-47 and replace seat.
	Defective retaining ring (13, figure 7-53).	Bleed system; disassemble in accordance with paragraph 7-47 and replace retaining ring.
Pressure reducer does not meet required flows.	Pressure reducer out of adjustment.	Adjust pressure reducer in accordance with paragraph 7-77.
	Weak or broken poppet spring (16, figure 7-53) in pressure reducer.	Bleed system; disassemble in accordance with paragraph 7-47 and replace poppet spring.

Table 7-7. Troubleshooting (East/West Only) (Cont)

Trouble	Probable Cause	Remedy
Pressure reducer does not meet required flows. (Cont)	Improper assembly of pressure reducer.	Bleed system; disassemble in accordance with paragraph 7-47 and clean.
	Dirty filter assembly (14, figure 7-53).	Bleed system; disassemble in accordance with paragraph 7-47 and replace filter assembly.
Oxygen system leaking; high pressure side of reducer.	Misaligned seat (20, figure 7-53).	Bleed system; disassemble in accordance with paragraph 7-47 and replace seat.
	Bent poppet (17, figure 7-53).	Bleed system; disassemble in accordance with paragraph 7-47 and replace poppet.
	Broken poppet spring (16, figure 7-53).	Bleed system; disassemble in accordance with paragraph 7-47 and replace poppet spring.
	Inverted backup ring (19, figure 7-53).	Bleed system; disassemble in accordance with paragraph 7-47 and replace backup ring.

WARNING

Do not use oil or any material containing oil in conjunction with oxygen equipment. Oil, even in a minute quantity, coming in contact with oxygen can cause explosion or fire. Dust, lint, and fine metal particles are also dangerous.

CAUTION

Filter must be removed when using Fill Valve P/N 9120097-27.

NOTE

Maintenance personnel are cautioned to read and thoroughly understand the procedures of each step prior to attempting any maintenance action.

1. Remove oxygen gage, filler valve, relief valve, two flare tube nipples, and bracket, as follows:

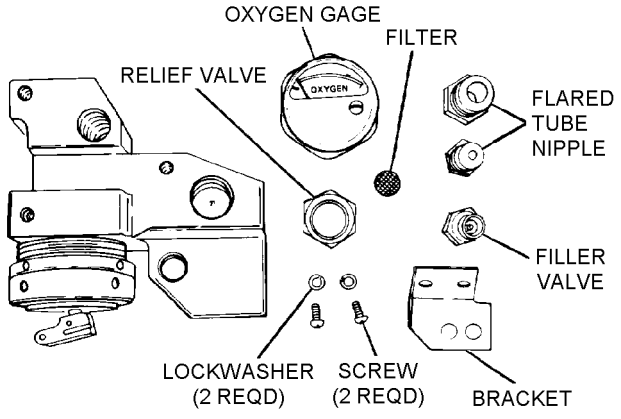
a. Remove oxygen gage.

b. Remove filler valve assembly and filter.

c. Remove relief valve assembly.

d. Remove both flare tube nipples.

e. Remove two screws, lockwashers, and bracket.



Step 1e - Para 7-47

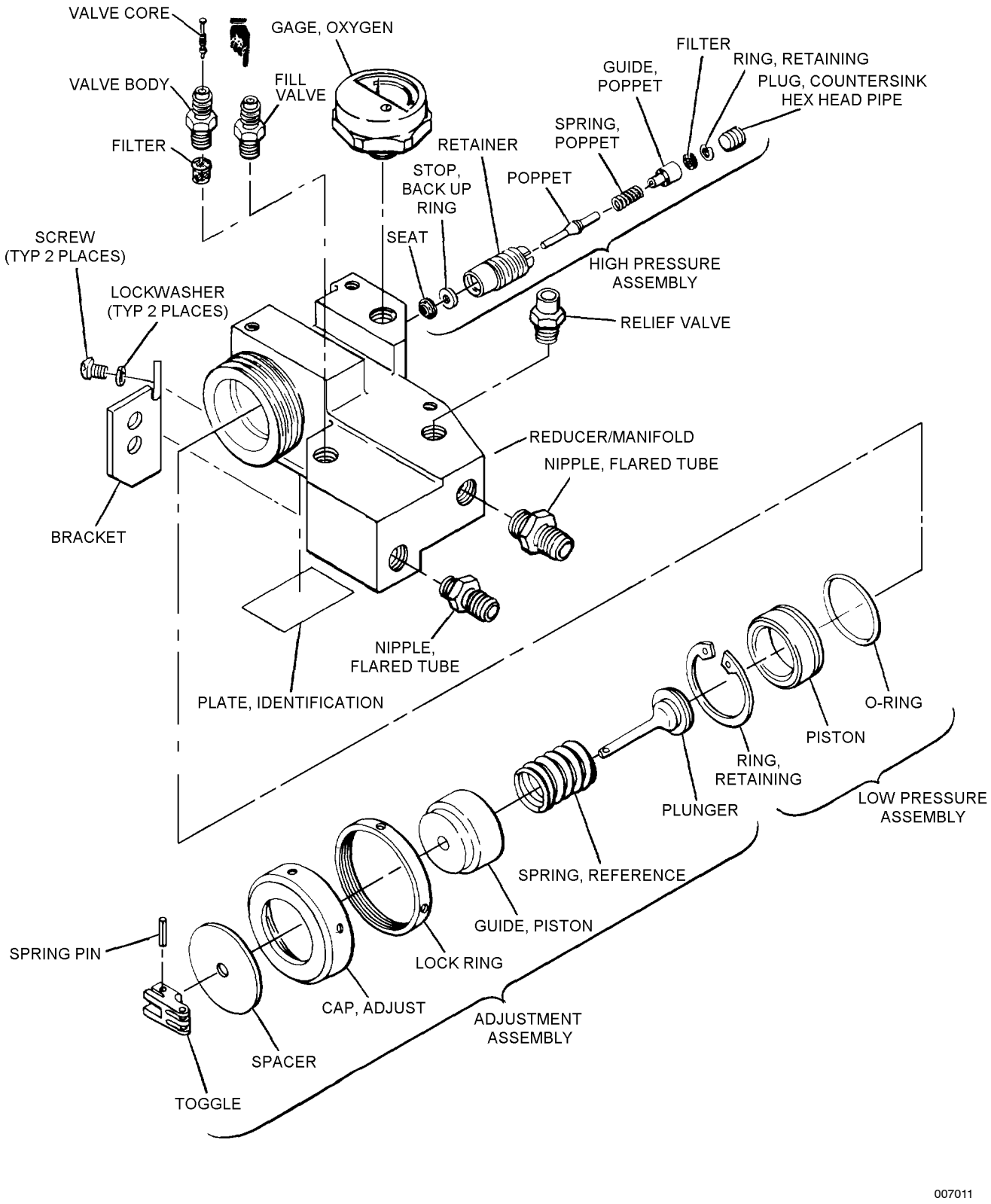


Figure 7-11. Reducer/Manifold Assembly (East/West)

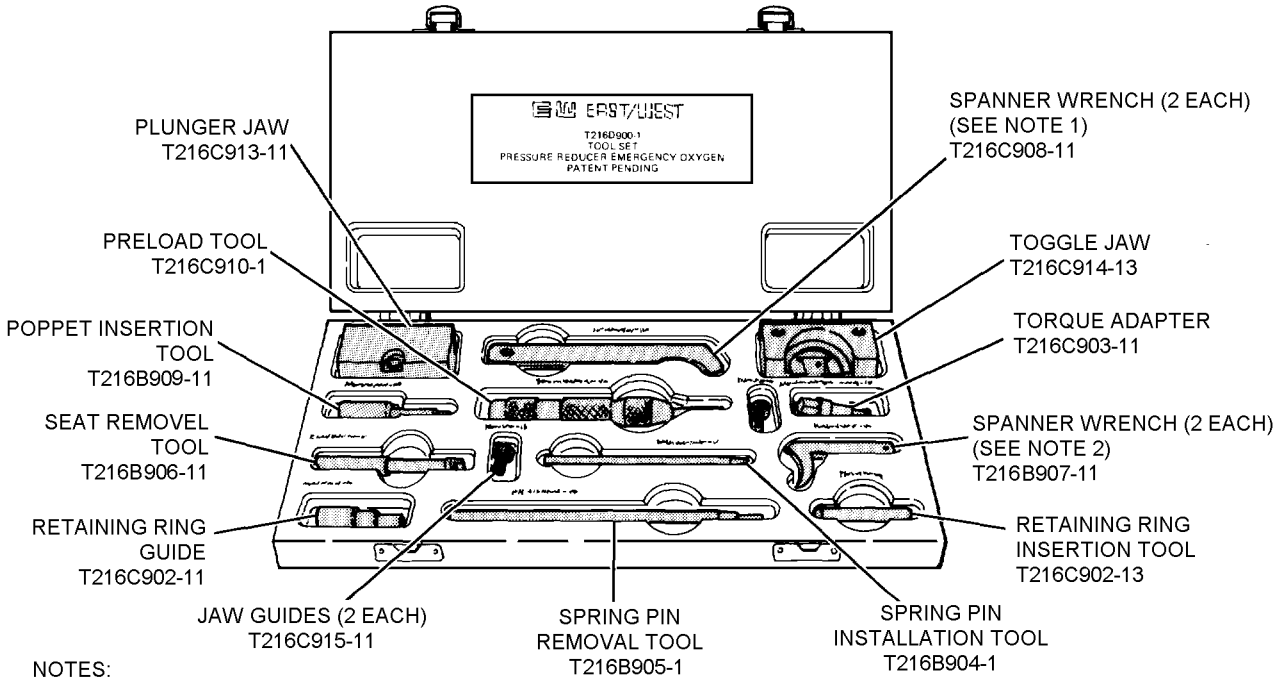
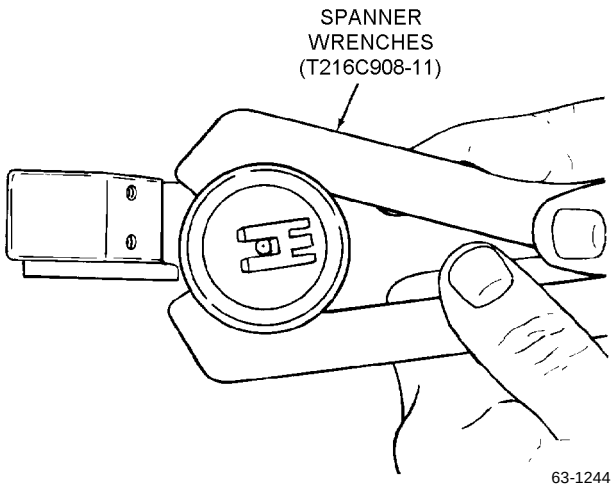


Figure 7-12. Emergency Oxygen Pressure Reducer Tool Set

f. Replace worn or defective parts as necessary.

2. Remove and disassemble adjustment assembly as follows:

a. Position oxygen pressure reducer assembly with cap adjustment side up. Loosen lock ring, using spanner wrench (T216C908-11) in a clockwise rotation while holding the adjusting cap with the second spanner wrench.



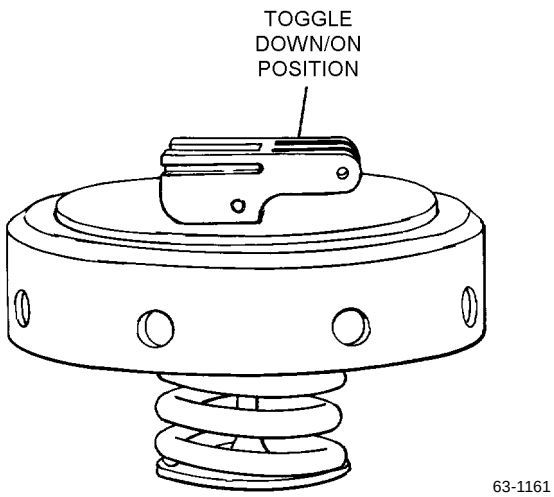
Step 2a - Para 7-47

NOTE

To permit hand removal of the adjustment assembly, ensure that toggle is in upright (OFF) position. To obtain desired position, insert toggle reset tool in slot on either side of toggle and twist.

b. Remove adjustment assembly from pressure reducer by rotating in a counterclockwise direction.

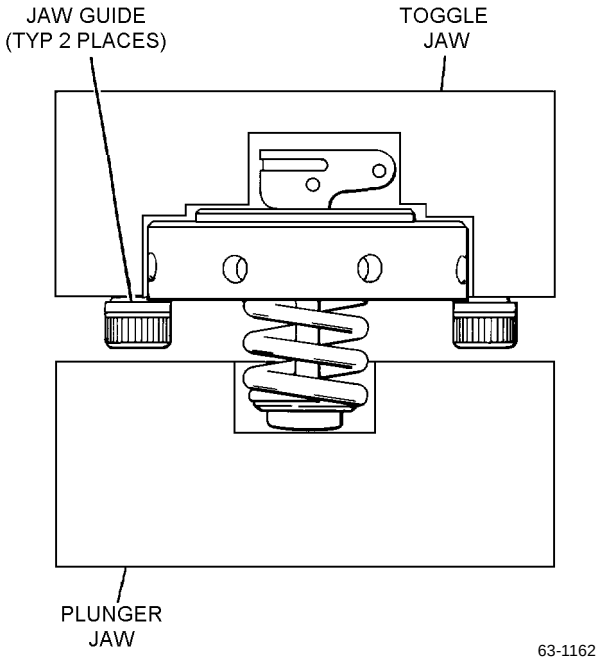
c. Using toggle reset tool, trip/rotate toggle to down (ON) position to reduce tension on toggle and plunger spring assembly.



Step 2c - Para 7-47

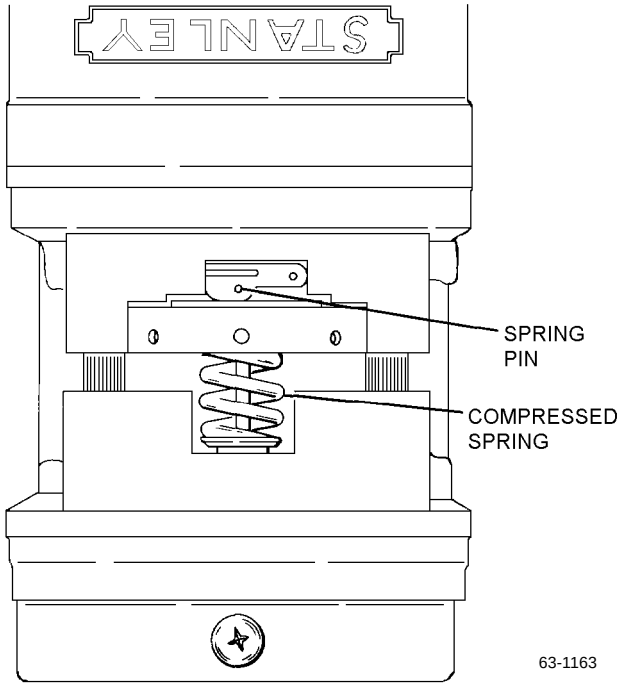
d. Using appropriate Allen key, screw jaw guides into the two threaded holes in the toggle jaw.

e. Position adjustment assembly in the toggle and plunger jaws.



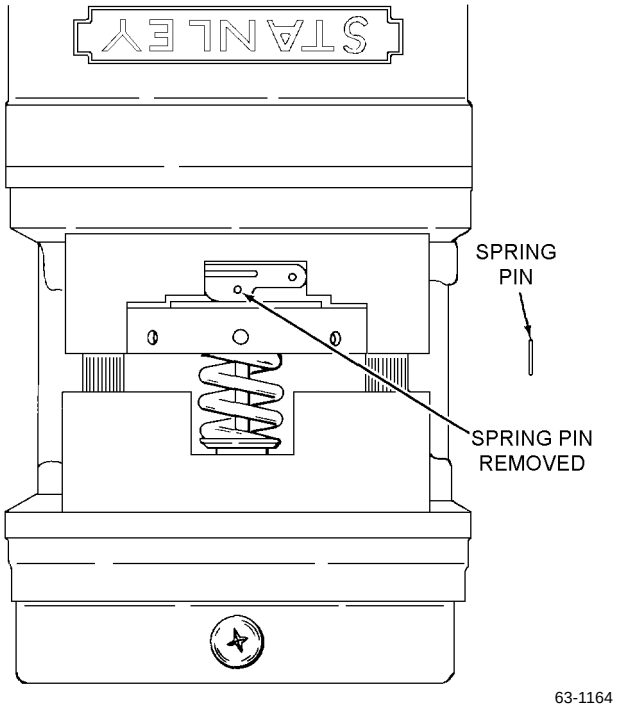
Step 2e - Para 7-47

f. Place toggle and plunger jaws in a vise. Align fixture and tighten to compress spring and relieve tension on the spring pin and toggle attachment.



Step 2f - Para 7-47

g. Using spring pin removal tool, punch out spring pin and discard.

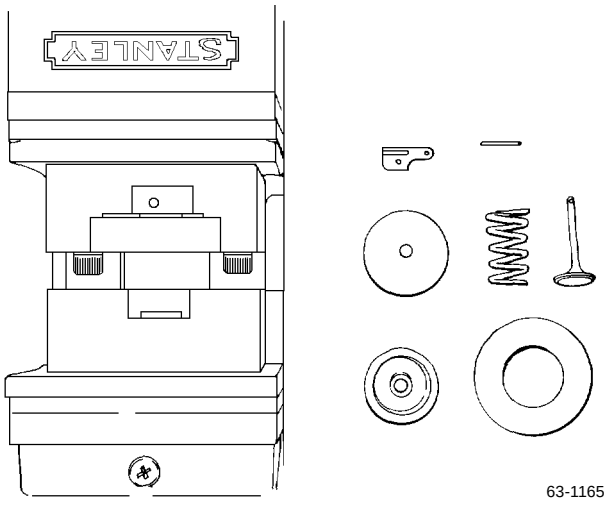


Step 2g - Para 7-47

NOTE

Spring pin is the only attachment point of components.

h. Loosen vise jaws to relieve pressure. Remove adjustment assembly from toggle and plunger jaws and disassemble. Replace worn or defective parts as necessary.



Step 2h - Para 7-47

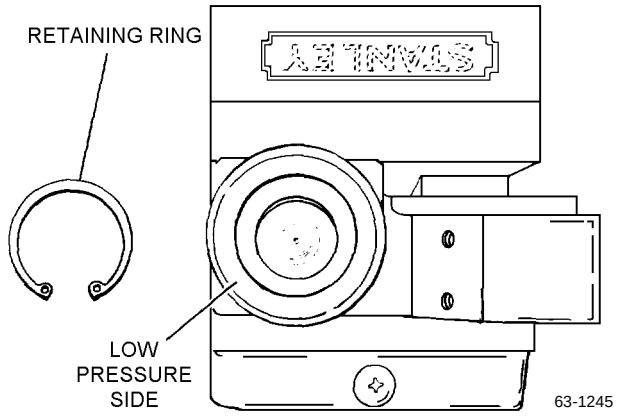
3. Disassemble low pressure assembly as follows:

a. Position oxygen pressure assembly with adjustment side or low pressure side up and secure.

NOTE

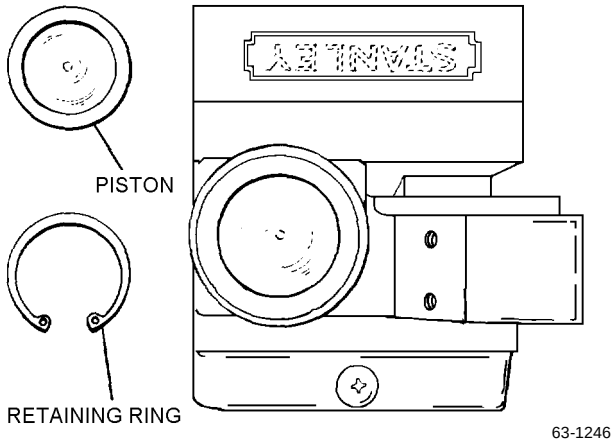
If adjustment assembly has not been removed, remove in accordance with step 2.

b. Remove retaining ring, using retaining ring pliers (SL0100) or equivalent.



Step 3b - Para 7-47

c. Remove piston from reducer body bore, using retaining ring pliers with points pressed against piston skirt.



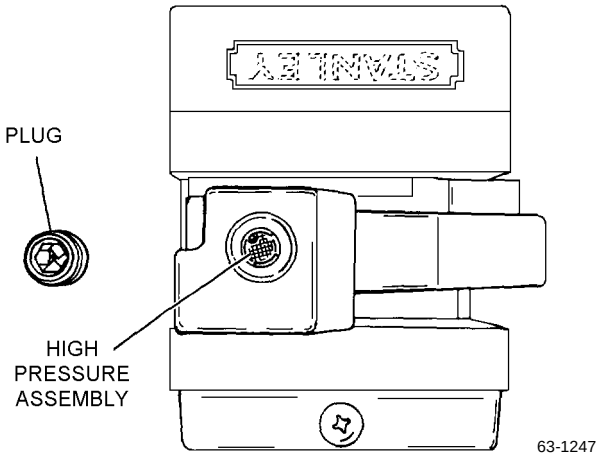
Step 3c - Para 7-47

d. Remove and discard O-ring from piston.

4. Disassemble high pressure assembly. To disassemble high pressure assembly, proceed as follows:

a. Position and secure oxygen pressure reducer with high pressure assembly facing up.

b. Remove plug with a 1/4-inch Allen wrench.

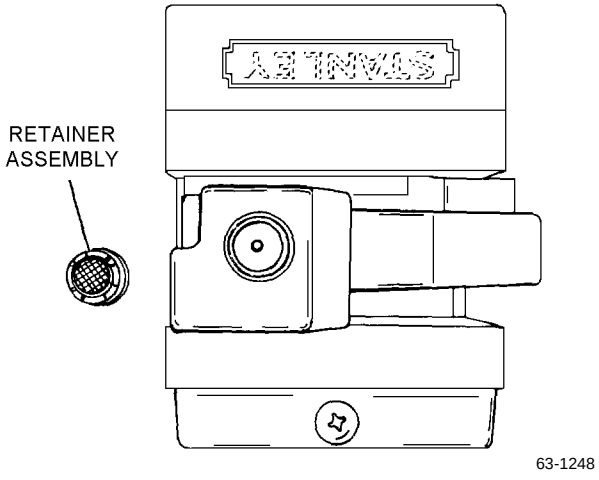


Step 4b - Para 7-47

NOTE

The retaining ring, filter, poppet guide, and spring usually withdraw from the reducer assembly housing still connected to the retainer unit.

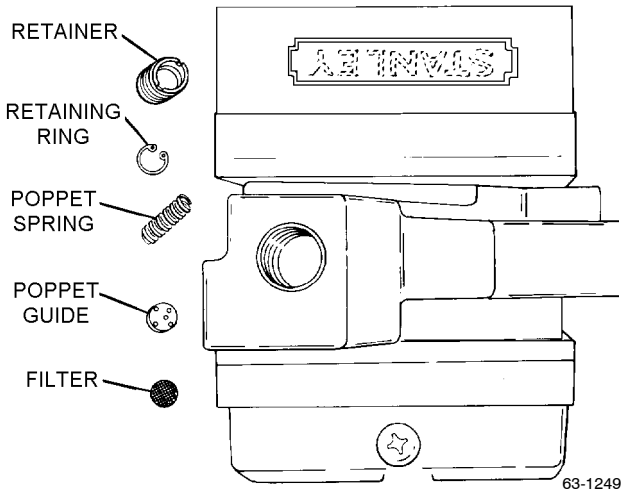
c. Using torque adapter, remove retainer from reducer body, by rotating counterclockwise.



Step 4c - Para 7-47

d. Remove retaining ring, using retaining ring pliers (S0100) or equivalent.

e. Remove filter, poppet guide, and poppet spring from retainer.



Step 4e - Para 7-47

f. Invert reducer body and remove poppet, back-up stop ring, and seat.

NOTE

If seat does not come out when backup stop ring is removed, proceed to step g for seat removal procedures which will not damage reducer body.

g. (Use only if seat must be dislodged.) Insert seat removal tool into reducer body.

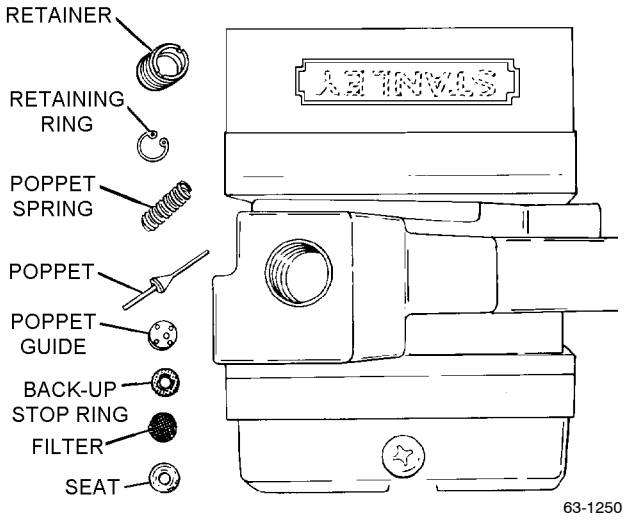
CAUTION

Do not cut into reducer body.

h. (Use only if seat must be dislodged.) Rotate seat removal tool until seat is loosened from reducer sealing groove.

i. (Use only if seat must be dislodged.) Visually inspect seat area inside reducer body to ensure seat has been dislodged and removed. Remove any remaining foreign matter.

j. Replace worn or defective parts as necessary.



Step 4j - Para 7-47

7-48. CLEANING.

7-49. To clean the disassembled oxygen and non-oxygen components of the kit (except for cushions and fabric components) refer to NAVAIR 13-1-6.4-1.

7-50. CLEANING CUSHIONS AND FABRIC COMPONENTS. Clean seat cushions and all fabric components, as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Cleaning Compound	MIL-C-25769
As Required	Detergent, General Purpose	MIL-D-16791
As Required	Lint-free Cloth	MIL-C-85043 NIIN 00-044-9281

NOTE

If using cleaning compound (MIL-C-25769), combine one part compound to three parts water. If using general purpose detergent, follow directions on container.

1. Prepare detergent or cleaning compound (MIL-C-25769) solution.

2. Apply solution to soiled area with spray or sponge.

3. Allow solution to remain on surface for few minutes, then scrub with soft brush or cloth.

4. Rinse surface thoroughly with water; wipe with cloth or sponge.

NOTE

Repeat steps 1 through 4 until material is clean.

5. Repeat step 4 until material is free from all solution.

6. Allow material to dry thoroughly.

7-51. INSPECTION OF DISASSEMBLED PARTS.

7-52. Inspect the disassembled parts using the figures and index numbers cited in table 7-8. Inspect the parts for damage, distortion, corrosion, and other damage in accordance with table 7-8. Inspect survival items in accordance with NAVAIR 13-1-6.5.

7-53. REPAIR AND REPLACEMENT.

7-54. REPAIR. Repair of individual components within any assembly is authorized only in accordance with procedures outlined in this manual. For all repairs, make necessary entries on appropriate form in accordance with OPNAVINST 4790.2 Series. Refer to table 7-9 for available repair kits.

7-55. Repair of Cushion Assembly. Repair of the cushion assembly is limited to sewing of loose or open seams, broken stitches, and small rips and tears.

7-56. REPLACEMENT. All individual components that fail to pass inspection shall be replaced except where repair procedure is indicated. Refer to source code listing (SM&R Code), in the Numerical Index of the Illustrated Parts Breakdown, to aid in determining replaceable components. All adjustable components or assemblies that failed to pass respective tests shall be adjusted to meet required specifications.

7-57. Replacement of Filler Valve Core. To replace filler valve core assembly, proceed as follows:

Materials Required

Quantity	Description	Reference Number
1	Core, High Pressure (Rocket Jet)	AN809-1
	-or-	
	Core, High Pressure (Scott)	20018 (CAGE 53655)
	-or-	
	Core, High Pressure (East/West)	EW63001 (CAGE 30941)

Support Equipment Required

Quantity	Description	Reference Number
1	Tool, Valve Core	2688 (CAGE 27783)
1	Torque Wrench (lb-in)	—

WARNING

If necessary to release pressure in oxygen bottle before replacing filler valve core, pull emergency oxygen lanyard. This releases pressure through pressure reducer. DO NOT release pressure through filler valve. Releasing high-pressure oxygen through restriction of filler valve causes heat. Fire or explosion may result.

1. Deplete emergency oxygen cylinder, if necessary, by pulling the emergency oxygen lanyard.

2. Remove oxygen filler valve cap.

3. Remove valve core, using the valve core tool.

4. Install new valve core and torque to 4 to 5 lb-in.

5. Refer to paragraph 7-40 for purging and charging procedures.

Table 7-8. Inspection

Component	Task
Survival Kit (Figures 7-24, 7-34, 7-41 and 7-48)	
Cushion Assembly	Check cover assembly for fabric damage and loose, frayed or broken stitching.
	Check cover zipper for security of attachment and trouble-free operation.
	Check for presence and security of snaps on cushion lower surface.
	Check that hook and pile tape is firmly attached to cover.
	Check that cushion filler material is securely bonded to rigid form.
Quick-release Fittings (4, figure 7-24; 7, figure 7-34; 7, figure 7-48)	Check for obvious wear, damage and releases adapt and maintain open and closed positions during operation.
LH and RH Strap Assemblies (5, figure 7-24; 8, figure 7-34; 5, figure 7-48)	Check webbing for wear and damage and for frayed, broken, or loose stitching.
	Inspect adapter and harness lugs for obvious damage, corrosion, and wear. Inspect adjuster for proper operation. Adjuster must release webbing with a maximum pull force of 8 lbs on yellow tab. Harness webbing shall move freely through adjuster in either direction.
CO_2 Bottle Valve Cord, Lanyards, Dropline, and Liferaft Cover	Check for worn or damaged webbing and material, as applicable. Check for loose, broken, or frayed stitching.
Equipment Container	Check slide fastener for security of attachment and trouble-free operation.
	Inspect container material for wear and damage and for loose, broken and frayed stitching.
Survival Equipment	Inspect in accordance with NAVAIR 13-1-6.5.
Nameplate	Check for legibility and security of attachment.
Lower Container Assembly (Figures 7-25, 7-35, 7-41 and 7-54)	
Lower Guide Assembly (37, figure 7-25; 61, figure 7-35; 12, figure 7-41; 42, figure 7-54)	Check for damage and distortion.
Negative-G Straps	Check metal fittings for damage and check webbing for wear and for loose, frayed or broken stitching.
Skid Pad	Inspect for nicks, cuts and gouges and for secure attachment on container.
Decals	Check for legibility and security of attachment.

Table 7-8. Inspection (Cont)

Component	Task
Upper Container Assembly (Figures 7-26, 7-36, 7-43 and 7-51)	
Plug and Nipple (1 and 2, figure 7-26; 1 and 11, figure 7-36; 11, figure 7-43; 7 and 17, figure 7-51)	Check for damaged threads and rounded hexagon flats, as applicable.
Oxygen Cylinder	Inspect end fittings for thread damage.
	Check tube for cracks, dents, nicks, gouges, and scratches which penetrate metal. Carefully inspect areas adjacent to welds.
Lid Lock Hooks	Check for distortion and wear or damage to hooks which engage lid locks.
Tube Assemblies (24 and 25, figure 7-26; 21 and 22, figure 7-36; 20, figure 7-43; 1 and 20, figure 7-51)	Inspect tubing for dents, cracks and gouges; check integral nuts for damaged threads or rounded corners of hexagon flats.
Upper Guide (41, figure 7-26; 39, figure 7-36; 24, figure 7-43; 40, figure 7-51)	Check for cracks, gouges and obvious damage.
	(East/West Only) Check for obvious damage and ring for security of attachment.
Manual Oxygen Release	Inspect end fitting and molded rubber ring for damage.
	(Scott P/N 21833-03 and Rocket Jet P/N 283190 manual oxygen release assemblies) Forward manual oxygen release to x-ray (non-destructive testing) shop for testing, in accordance with paragraph 7-39, step 37.
Button Plug Assembly (55, figure 7-37; 37, figure 7-44; 79, figure 7-52)	Check chain and plug for damage. Ensure that chain is securely riveted to plug.
Hook and Pile Tape	Check that tape is securely bonded to lid.
Container	Inspect for cracks and damage to fiberglass. Check all bonded and riveted parts for security of attachment. Inspect carrying strap for wear and damage.
Handle Assembly (Figures 7-25, 7-35 and 7-48)	
Link Assembly (52, figure 7-25; 8, figure 7-35; 17, figure 7-48)	Check that pin is firmly into link. Inspect carrying strap for wear and damage.
Handle Halves	Check slots in aft end of each half for wear and damage. Inspect lettering and stripes for evidence of gouges, chipping and obvious damage.
Anchor Pin (58, figure 7-25; 3, figure 7-35; 13, figure 7-48)	Inspect for cracks, wear and distortion.
Trigger Assembly (58 and 60, figure 7-25; 6, figure 7-35; 15 and 16, figure 7-48)	Check that pin is firmly pressed into trigger. Check trigger locking projection and pin for wear and damage.

Table 7-8. Inspection (Cont)

Component	Task
Upper Block Assembly (Figures 7-27, 7-37, 7-44 and 7-49)	
Fitting (1, figure 7-27; 1, figure 7-37; 1, figure 7-44; 1, figure 7-49)	Check for damaged threads and for rounded hexagon flats.
Fitting (3, figure 7-27; 22, figure 7-37; 22, figure 7-44; 22, figure 7-49) and Check Valve (7, figure 7-27; 26, figure 7-37; 26, figure 7-49)	Check for concentricity of ports and for cracks; check packing seats for distortion and damage.
Retainer (12, figure 7-27; 14, figure 7-37; 14, figure 7-44; 14, figure 7-49) and Hollow Screw (18, figure 7-27; 12, figure 7-37; 12, figure 7-44; 12, figure 7-49)	Inspect for distortion and damaged threads.
Knob Assembly (14, figure 7-27; 15, figure 7-37; 15, figure 7-44; 15, figure 7-49)	Check for cracks and distortion.
Upper Block	Inspect integral tube, holes, and threads for damage. Check for cuts and gouges in block.
Lower Block Assembly (Figures 7-24, 7-28, 7-38, 7-45 and 7-50)	
Cable Assembly	Check for security of terminals and sleeve on cable.
	Inspect cable for broken strands and fraying.
	Check clevis and yoke for wear and damage; check ring for distortion and damage.
	Check electrical condition of cable assembly in accordance with paragraph 7-79.
Lock Pin Assembly (15, figure 7-24; 12, figure 7-28; 16, figure 7-38; 12, figure 7-45; 16, figure 7-50)	Inspect for damaged components, jammed parts, and other obvious damage.
All Fittings and Check Valves	Check for concentricity of ports, cracks, and breaks; check packing seats for distortion and damage.
Fittings (29, figure 7-28; 22, figure 7-38; 18, figure 7-45; 22, figure 7-50)	Check for damaged threads and rounded flats.
Block Assembly	Inspect brazed fittings, holes and threads for damage; check packing seats for distortion and breaks. Check block for cuts and gouges.
Intermediate Block Assembly (Figures 7-29, 7-39, 7-46 and 7-52)	
Connector (1, figure 7-29; 1, figure 7-39; 24, figure 7-46; 1, figure 7-52) and Plug (24, figure 7-29; 18, figure 7-39; 31, figure 7-46; 18, figure 7-52)	Check for cracks, distortion and thread damage. Inspect packing seats for damage.

Table 7-8. Inspection (Cont)

Component	Task
Intermediate Block Assembly (Figures 7-29, 7-39, 7-46 and 7-52) (Cont)	
Inserts (18 and 19, figure 7-29; 12 and 13, figure 7-39; 20 and 21, figure 7-46; 12 and 13, figure 7-52)	Check for cracks and obvious damage.
Pin (14, figure 7-29, 8, figure 7-39; 6, figure 7-46; 8, figure 7-52)	Check for damaged flats and bent shaft.
Sleeves (15 and 20, figure 7-29; 9 and 23, figure 7-39; 7 and 23, figure 7-46; 9 and 23, figure 7-52)	Inspect for obvious wear and concentricity; check slot in sleeve for wear and damage.
Electrical Receptacle (16, figure 7-29; 10, figure 7-39; 19, figure 7-46; 10, figure 7-52)	Check for bent or broken pins and signs of arcing; inspect setscrew hole for damage.
	Check electrical condition in accordance with paragraph 7-79.
Check Valve (29, figure 7-29; 21, figure 7-39; 34, figure 7-46; 21, figure 7-52)	Inspect for concentricity of ports and for cracks; check packing seat for distortion and damage.
Inserts (30, figure 7-29; 26, figure 7-39; 26, figure 7-52)	Check that inserts are between 3/4 to 1 1/2 turns below housing surface and tightly installed.
Housing	Check for wear, cracks and distortion; inspect ports, seats, and threads for damage.
Reducer Manifold Assembly (Figures 7-30, 7-40, 7-47 and 7-53)	
Nipples (1 and 2, figure 7-30; 1 and 2, figure 7-40; 37 and 38, figure 7-47; 25 and 26, figure 7-53)	Inspect for thread damage and rounded hexagon flats.
Button Plug Assembly (3, figure 7-30)	Check chain and plug for damage. Ensure that chain is securely riveted to plug.
Gage (10, figure 7-30; 5, figure 7-40; 30, figure 7-47; 27, figure 7-53)	Check for cracked or missing glass, bent or broken needle and stop, or jammed needle.
	Inspect for security of gage cover and for damaged attachment threads.
	Check for presence and security of integral filter in attachment shaft.
Relief valve (11, figure 7-30; 4, figure 7-40; 31, figure 7-47; 24, figure 7-53)	Inspect for damaged threads and packing seat.
Toggle Arm (26, figure 7-30; 15, figure 7-40; 4, figure 7-47; 2, figure 7-53)	Check for distortion, slot damage, hole wear and screw thread damage.
	Check that toggle arm is placed upright (not canted, turned, or overcocked) and positioned such that it will trip directly towards cable guide bracket.

Table 7-8. Inspection (Cont)

Component	Task
Reducer Manifold Assembly (Figures 7-30, 7-40, 7-47 and 7-53) (Cont)	
Retainer (32, figure 7-30; 28, figure 7-40; 16, figure 7-47)	Check adjustment holes, threads and spring seats for damage.
Adjust Cap (4, figure 7-53) and lock ring (5, figure 7-53)	Check spanner wrench holes and threads for damage.
Piston (34, figure 7-30; 31, figure 7-40; 19, figure 7-47; 8 thru 10, figure 7-53)	Check for bent shaft, damage to seat flange and hole wear.
Nameplate	Check for legibility and secure attachment.
Housing	Inspect for breaks, gouges and other obvious damage. Check ports, threads, and diaphragm seating area for damage.

Table 7-9. Repair Kits

Kit	Component	Repair Kit P/N		
		Scott	Rocket Jet	East/West
RSSK-1	Upper Block	25517	—	—
RSSK-1	Lower Block	25518	—	—
RSSK-1	Reducer/Manifold	26488	—	—
		26490	—	—
RSSK-1A	Upper Block	26936	741353	—
RSSK-1A	Lower Block	26937	741354	—
RSSK-1A	Intermediate Block	26939	741355	EW204K-7
RSSK-1A	Reducer/Manifold	—	741356	—

7-58. (East/West) Replacement of Lapbelt Adjuster. To replace missing or damaged lapbelt adjuster on the restraint harness, proceed as follows:

Materials Required

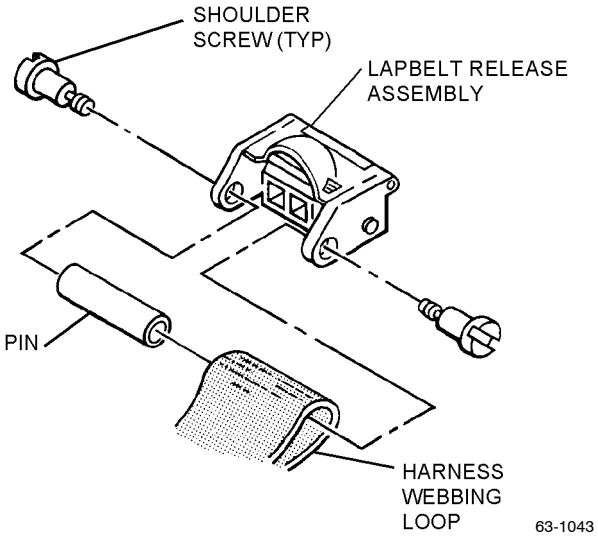
Quantity	Description	Reference Number
As Required	Adjuster, Lapbelt	184C100-1 (CAGE 30941)
As Required	Sealing, Locking, and Retaining Compound, Grade A	MIL-S-22473 NIIN 00-952-2205

NOTE

Replacement procedures can be used on both right and left side restraint harness assemblies.

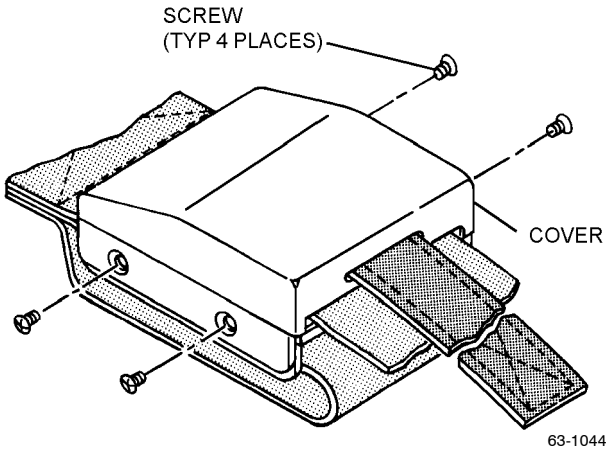
1. Remove existing lapbelt adjuster from the restraint harness as follows:

a. Remove lapbelt release assembly by removing two shoulder screws. Pull release assembly away from webbing, and slide pin out of harness webbing loop. Retain all parts.



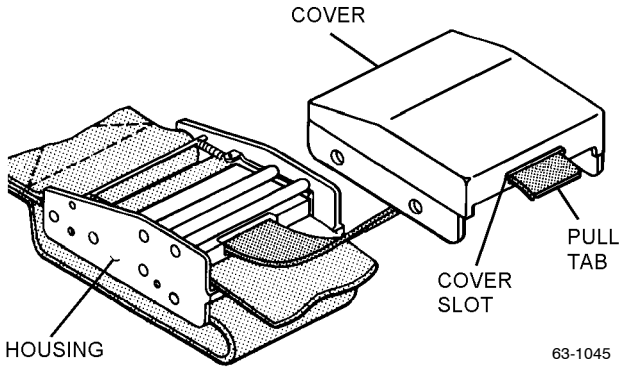
Step 1a - Para 7-58

b. Remove four screws (two on each side) from cover of lapbelt adjuster assembly.



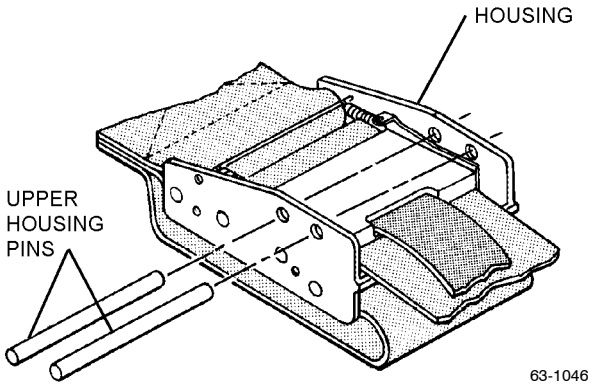
Step 1b - Para 7-58

c. Remove cover from lapbelt adjuster housing, and slide pull tab through cover slot.



Step 1c - Para 7-58

d. Slide upper housing pins out of housing.

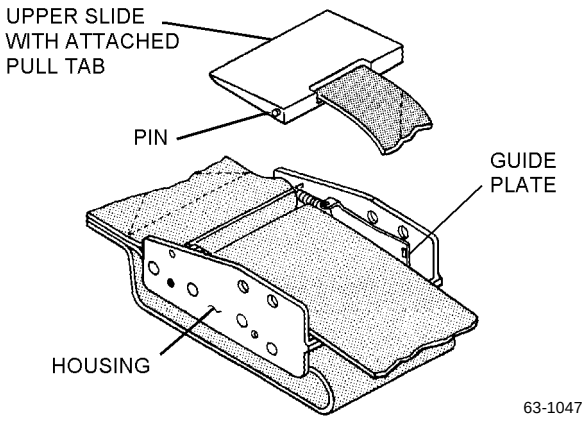


Step 1d - Para 7-58

NOTE

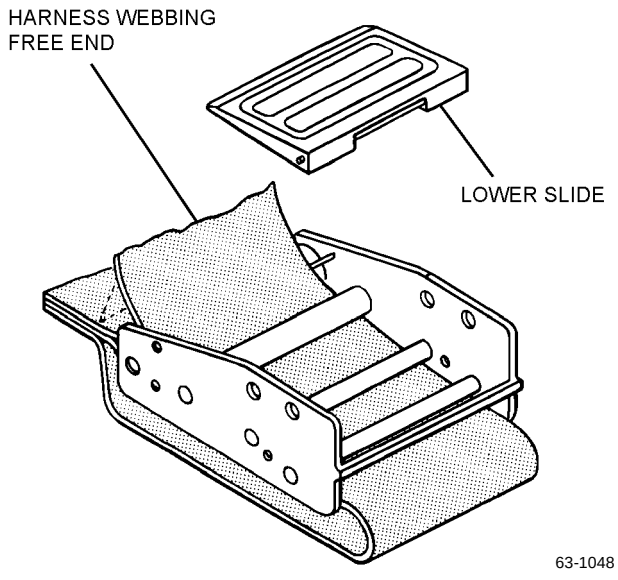
Slides are held to guide plates by pins. Pull slide up so guide plates are above edge of housing, and rotate slide out of guide plates.

e. Remove upper slide with attached pull tab.



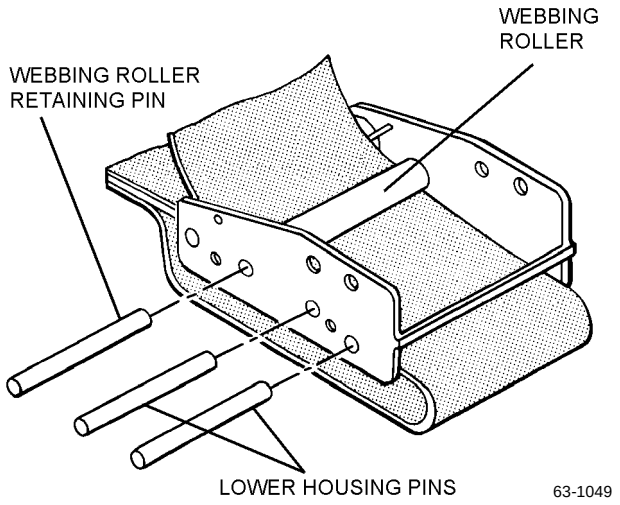
Step 1e - Para 7-58

f. Lift free end of harness webbing, and remove lower slide.



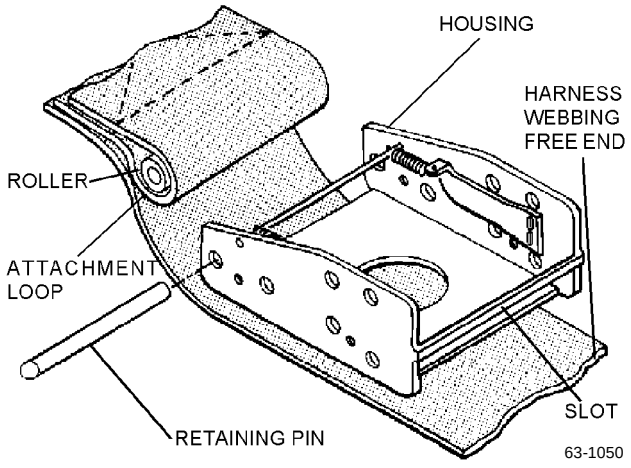
Step 1f - Para 7-58

g. Position guide plates up and out of way. Remove two lower housing pins and webbing roller retaining pin. Webbing roller will fall away.



Step 1g - Para 7-58

h. Pull free end of harness webbing through slot in housing. Remove pin retaining harness webbing attachment loop roller. Housing will fall away.



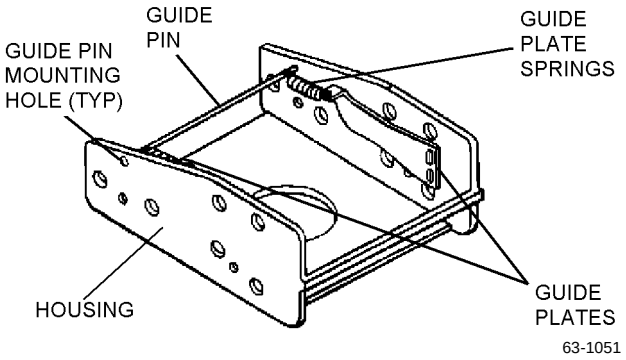
Step 1h - Para 7-58

2. Install new lapbelt adjuster as follows:

NOTE

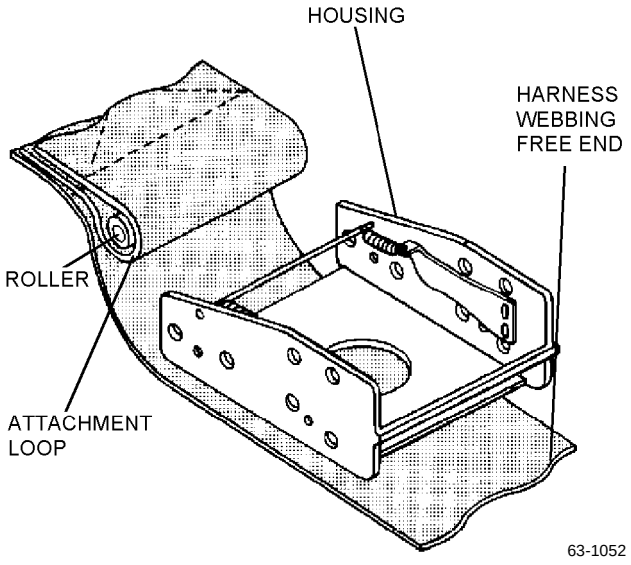
The six pins (two retaining and four housing) are interchangeable. The two rollers are interchangeable.

a. If required, slide guide plate springs onto guide pin; ensure guide plates are positioned correctly. Install assembly into adjuster housing guide pin mounting holes.



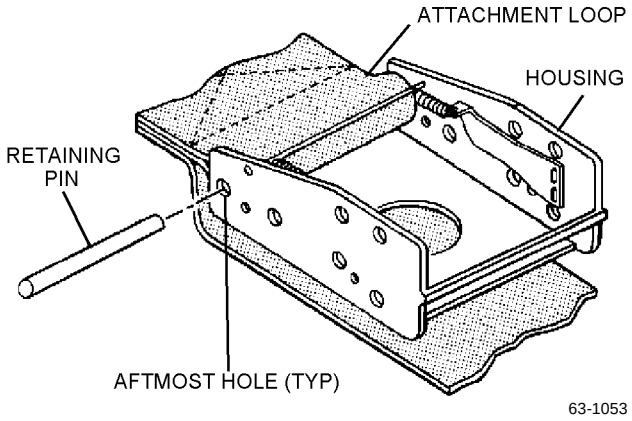
Step 2a - Para 7-58

b. Insert roller into attachment loop of harness webbing. Place adjuster housing on top of free end of harness webbing so that aft end of housing faces attachment loop.



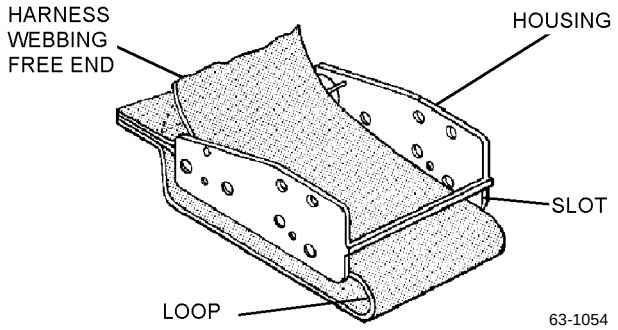
Step 2b - Para 7-58

c. Position housing onto attachment loop and roller. Align hole through roller with aftmost holes in housing, and install retaining pin.



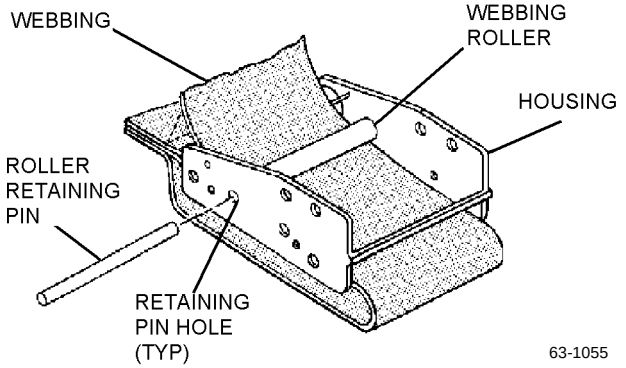
Step 2c - Para 7-58

d. Fold free end of webbing back towards housing. Insert end through slot in housing to form loop in webbing forward of adjuster. Guide plates may be positioned up and back to avoid any interference.



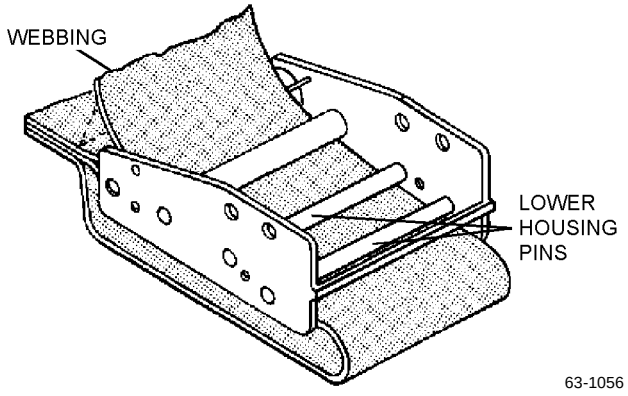
Step 2d - Para 7-58

e. Install webbing roller into housing on top of webbing. Position roller to align with proper holes in housing, and insert roller retaining pin.



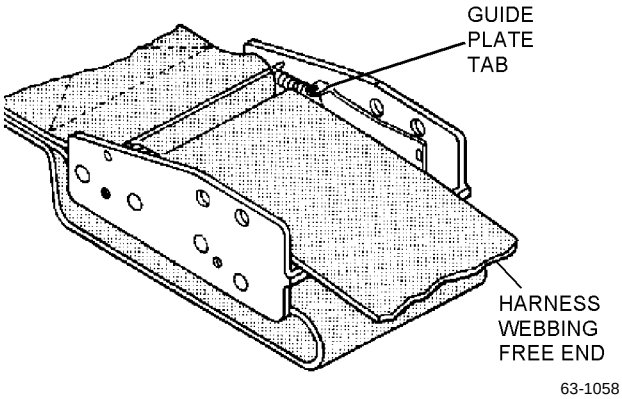
Step 2e - Para 7-58

f. Insert lower housing pins; ensure pins are resting on top of webbing.



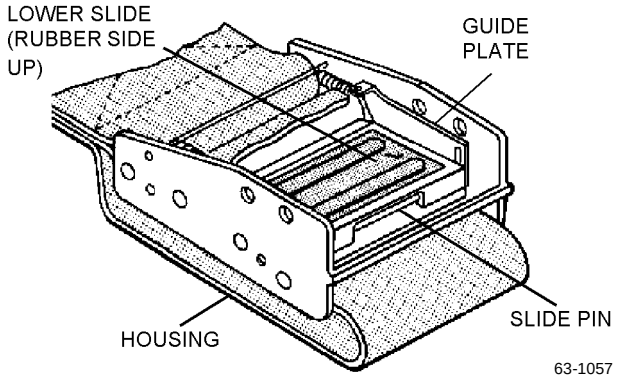
Step 2f - Para 7-58

h. Position harness webbing free end under tabs of guide plates, and lay webbing down over lower slide.



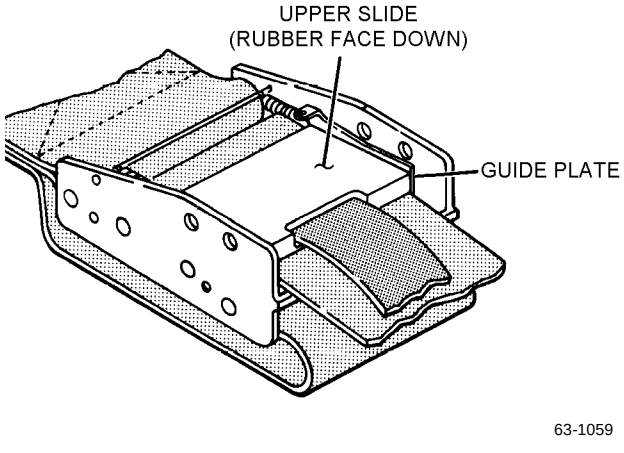
Step 2h - Para 7-58

g. Position guide plates into housing on top of lower housing pins, and install lower slide rubber side up. Ensure slide pin is correctly positioned into lower slots of guide plates.



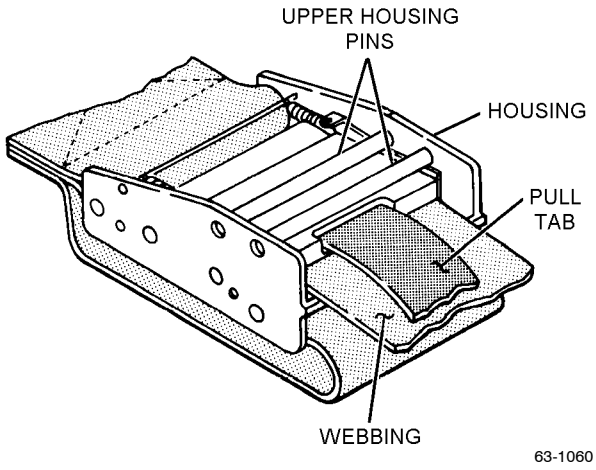
Step 2g - Para 7-58

i. Install upper slide rubber face down, ensuring lower slide does not come out of place. Ensure slide pins sit securely in slots of guide plates.



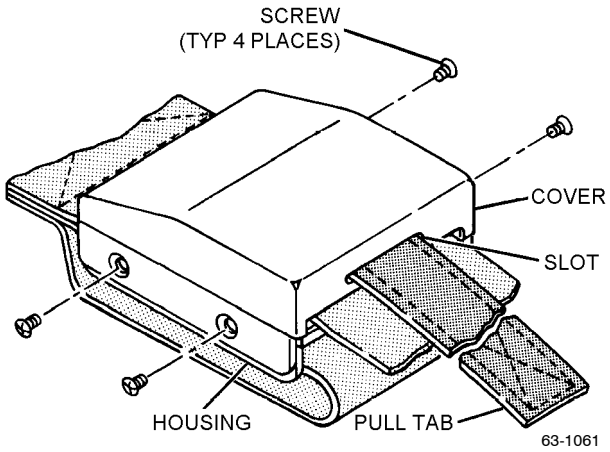
Step 2i - Para 7-58

j. Install upper housing pins. Ensure slides operate correctly; pull on pull tab to check simultaneous movement of slides. Webbing shall slide with ease, through adjuster in either direction.



Step 2j - Para 7-58

k. Insert pull tab from inside out through slot in cover. Place cover on housing, and align four screw holes. Apply sealing compound to threads of four screws, and secure cover to housing.



Step 2k - Para 7-58

3. Apply sealing compound to threads of two shoulder screws, and install lapbelt release assembly removed in step 1a.

4. Make necessary entries on appropriate form in accordance with OPNAVINST 4790.2 Series.

7-59. Deleted.

Pages 7-63 thru 7-66 - Deleted.

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7-60. ASSEMBLY.

7-61. Assemble using index numbers of figures 7-24 through 7-55 as reference and following instructions appearing in parentheses in the description column. Lubricate in accordance with table 7-10. Apply sealing compound to 50% of the threads of parts indicated in Illustrated Parts Breakdown. Before applying sealing compound, clean threads of any contaminants using clean cloth moistened with water. Refer to Appendix B and ensure all nuts and fittings are properly torqued. After proper torque has been completed, apply tamper dot to all oxygen fittings shown in figures 7-24 through 7-55. Use lacquer, MIL-L-7178, Fed. Std. 595. Use any contrasting color when applying tamper dots to oxygen fittings.

NOTE

The tamper dot on the Oxygen Hose Assembly shall be applied to the fitting in a manner which provides easy identification for inspection purposes when the seat kit is installed in the seat.

Table 7-10. Lubrication

Component	Lubrication
Handle Assembly	Molykote X106
Reducer/Manifold Slip Ring	Krytox 240AC (CAGE 73925)
Packing on Blocks	
Manual Oxygen Release	
East/West Reducer/Manifold	Krytox 240AZ (CAGE 73925)

CAUTION

Exercise care when handling P/N 21015-1 figure 7-43, index 19 or P/N 204D275-1 figure 7-51, index 30. Rough handling can affect correct length.

7-62. ASSEMBLY OF INTERMEDIATE BLOCK ASSEMBLY. To assemble the intermediate block assembly proceed as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Krytox 240AC, Type III	MIL-G-27617 NIIN 00-961-8995
As Required	Leak Detection Compound, Type I	MIL-L-25567

Support Equipment Required

Quantity	Description	Reference Number
1	Checking Gage	21006T76-1 (CAGE 53655)
1	Checking Gage	21006T76-3 (CAGE 53655)
1	Wrench	21006T91-1 (CAGE 53655)

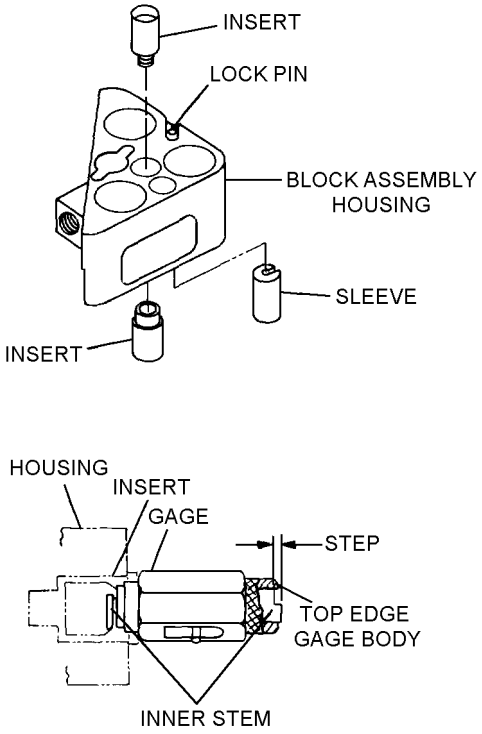
1. Lubricate O-rings lightly with Krytox 240AC.

2. Install inserts, and tighten with wrench P/N 21006T91-1.

NOTE

(Scott and East/West Only) If limits are not complied with, remove inserts and add shims as required.

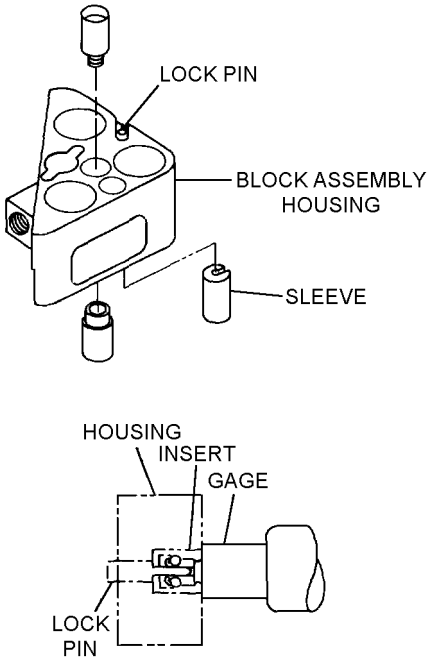
3. Check relation of undercut in inserts to housing using checking gage P/N 21006T76-1. Hold body of gage firmly against housing face, and check relation of inner stem of gage and top of gage body. Acceptable installations (falling within limits defined by step on inner stem) are indicated by top of gage body.



63-200

Step 3 - Para 7-62

4. Check function of sleeve using checking gage P/N 21006T76-3 by inserting gage in sleeve until it bottoms on housing face. Depress lock pin to full bottom position. Gage shall lock in sleeve.



Step 4 - Para 7-62

5. Leak test intermediate block assembly in accordance with paragraph 7-70.

7-63. ASSEMBLY OF LOWER BLOCK ASSEMBLY. To assemble the lower block assembly, see figure 7-13, and proceed as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Krytox 240AC, Type III	MIL-G-27617 NIIN 00-961-8995
As Required	Lacquer Mixture	L1-P
As Required	Leak Detection Compound, Type I	MIL-L-25567

Support Equipment Required

Quantity	Description	Reference Number
1	Checking Gage	21005T76-1 (CAGE 53655)
1	Checking Gage	21007T76-1 (CAGE 53655)

1. Lubricate O-rings lightly with Krytox 240AC.

2. Use same dash number lock pin (1) as removed in disassembly. Dash number is identified by number of punch marks in assembly housing.

3. After installing lock pin (1), place checking gage P/N 21005T76-1 over lock pin and hold outer sleeve of gage firmly against face of body. Inner sleeve shall fall within limits defined by control step.

4. Pull cable assembly to remove gage.

5. After installing lock pin (2), place checking gage P/N 21007T76-1 over lock pin until gage bottoms on body.

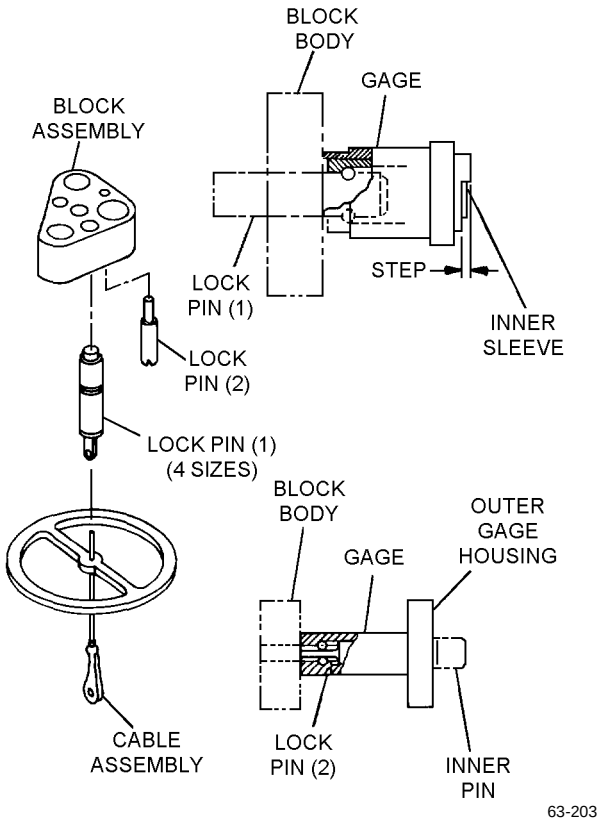


Figure 7-13. Lower Block Assembly

6. Depress inner pin to full bottom position.

7. While maintaining pressure on inner pin, attempt to pull outer gage housing off lock pin. Gage housing shall remain locked on.

8. Release pressure on inner pin, and pull back on housing to remove gage.

9. After assembly, fill all open screw holes with Torque Lacquer, Mixture No. L1-P or equivalent.

10. Leak test lower block assembly in accordance with paragraph 7-70.

7-64. ASSEMBLY OF UPPER BLOCK ASSEMBLY. To assemble the upper block assembly, proceed as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Krytox 240AC, Type III	MIL-G-27617 NIIN 00-961-8995
As Required	Lacquer Mixture	L1-P
As Required	Leak Detection Compound, Type I	MIL-L-25567

Support Equipment Required

Quantity	Description	Reference Number
1	Wrench	26338-T52-1 (CAGE 53655)

1. Lubricate O-rings lightly with Krytox 240AC.

2. Use same dash number lock pin as removed in disassembly. Dash number is identified by number of punch marks in assembly housing.

3. Use wrench P/N 26338-T52-1 to tighten manual release indicator in top of knob assembly.

4. After assembly, fill all open screw holes with Torque Lacquer, Mixture No. L1-P or equivalent.

5. Leak test upper block assembly in accordance with paragraph 7-71.

7-65. (ROCKET JET, SCOTT ONLY) ASSEMBLY OF REDUCER/MANIFOLD. To assemble the reducer/manifold, proceed as follows:

1. Do not assemble items 19 through 28, figure 7-30; items 13 through 26, figure 7-40; and items 1 through 12, figure 7-47, until partial testing is complete.

2. Connect reducer/manifold to test setup (figure 7-14).

WARNING

To prevent possibility of injury, always conduct test while protected by shatterproof shield of transparent material.

3. Adjust regulated nitrogen or oxygen source for 1000 psi as indicated on gage A. With flow control valve closed, adjust retainer until gage B indicates 50 psi. (Screw retainer in to increase pressure, out to decrease pressure.)

4. Reduce inlet pressure to 250 psi as indicated on gage A. With flow control valve closed, record pressure on gage B.

5. Open flow control valve, and adjust flowmeter for flow rates of 20 to 90 LPM in increments of 20 LPM. At each flow rate, record pressure on gage B.

6. Increase inlet pressure to 2000 psi as indicated on gage A. With flow control valve closed, record pressure on gage B. Repeat step 3.

7. All pressures recorded in steps 2 through 4 shall remain within limits of 45 to 80 psi.

8. Close flow control valve, and allow pressure to stabilize for 1 minute. The pressure shall not increase more than 2 psi during next 5 minutes, and not at all during succeeding 5 minutes.

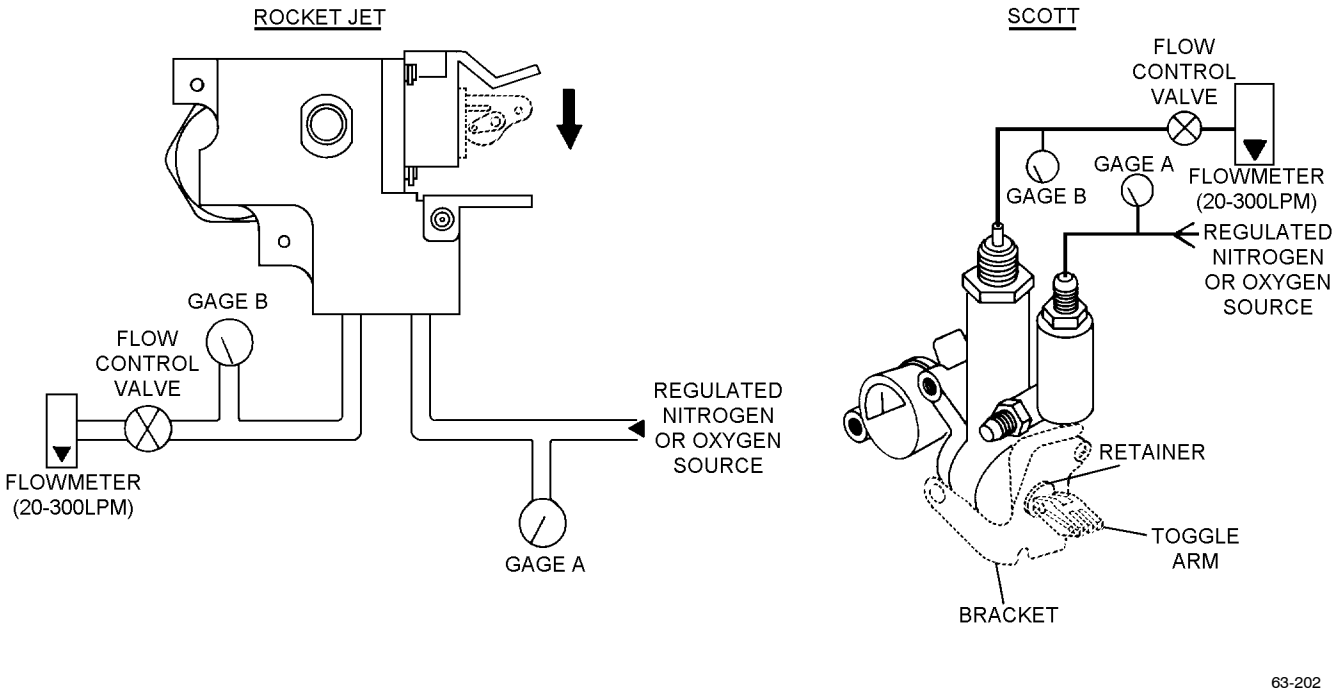


Figure 7-14. (Rocket Jet, Scott Only) Reducer/Manifold Assembly Test

9. Complete assembly of reducer by assembling toggle arm assembly.

10. Use spacers, as required, to ensure that bracket is squarely seated against outside face of retainer.

11. Use spacer as required to ensure complete closing of reducer when toggle arm is cocked.

12. Position toggle arm in closed position, and apply 2000 psi as indicated on gage A. Ensure that no leakage exists.

13. Repeat step 12 with 250 psi.

7-66. (EAST/WEST ONLY) ASSEMBLY OF REDUCER/MANIFOLD ASSEMBLY. The following procedures assemble the reducer/manifold assembly in four major operations: assembly of the high pressure assembly; assembly of low pressure assembly; assembly and preadjustment of the adjustment assembly; and assembly of oxygen gage, filler valve, adapter, and plug. It is imperative that the following assembly sequence be followed if the entire reducer/manifold assembly has been disassembled. See figure 7-15 and proceed as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Krytox 240AZ Type I	MIL-G-27617 NIIN 01-007-4384
As Required	Tape, Antiseize	MIL-T-27730
As Required	Thread Locking Compound	VC-3 (CAGE 04866)
As Required	Plastic Bag	MIL-B-117
1	Spring Pin	MS171435
1	O-ring	MS28775-117
1	Filter	204B419-11

Support Equipment Required

Quantity	Description	Reference Number
1	Vise	—
1	Pressure Reducer Tool Set (figure 7-16)	T216D900-1 (CAGE 30941) NIIN 01-100-8928
1	Retaining Ring Pliers	S0100 (CAGE 79136)
1	Retaining Ring Pliers	SL0100 (CAGE 79136)
1	Torque Wrench 0-150 lb-in	TE-6FUA (CAGE 55729) or Equivalent
1	Toggle Reset Tool	Fabricate IAW paragraph 7-89

WARNING

Do not use oil or any material containing oil in conjunction with oxygen equipment. Oil, even in a minute quantity, coming in contact with oxygen can cause explosion or fire. Dust, lint, and fine metal particles are also dangerous.

NOTE

Maintenance personnel are advised to read and thoroughly familiarize themselves with each step prior to the accomplishment of the operations set forth in this procedure.

Discard and replace all packings, seals, cotter pins, and Teflon sealing tape removed during disassembly of emergency oxygen system.

All complete assemblies not immediately being returned to service shall be sealed in plastic bags with all external fittings properly capped.

1. Assemble high pressure assembly as follows:

NOTE

If the entire reducer/manifold assembly has not been disassembled, it is necessary to remove the adjustment assembly and low pressure assembly to correctly perform the following assembly procedures.

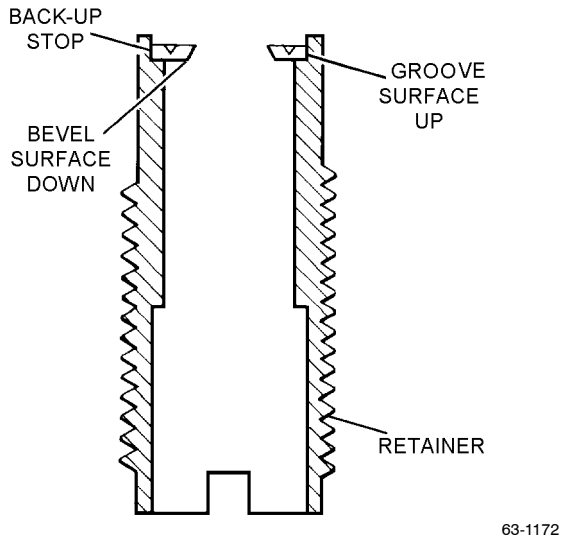
a. Ensure that the adjustment assembly has been removed in accordance with paragraph 7-47.

b. Ensure that the low pressure assembly has been removed in accordance with paragraph 7-47.

c. Ensure that all oxygen components to be assembled have been properly cleaned in accordance with NAVAIR 13-1-6.4-1.

d. Position retainer with threaded side down.

e. Install backup stop in upper groove of retainer, positioning bevel surface down and groove surface up.



Step 1e - Para 7-66

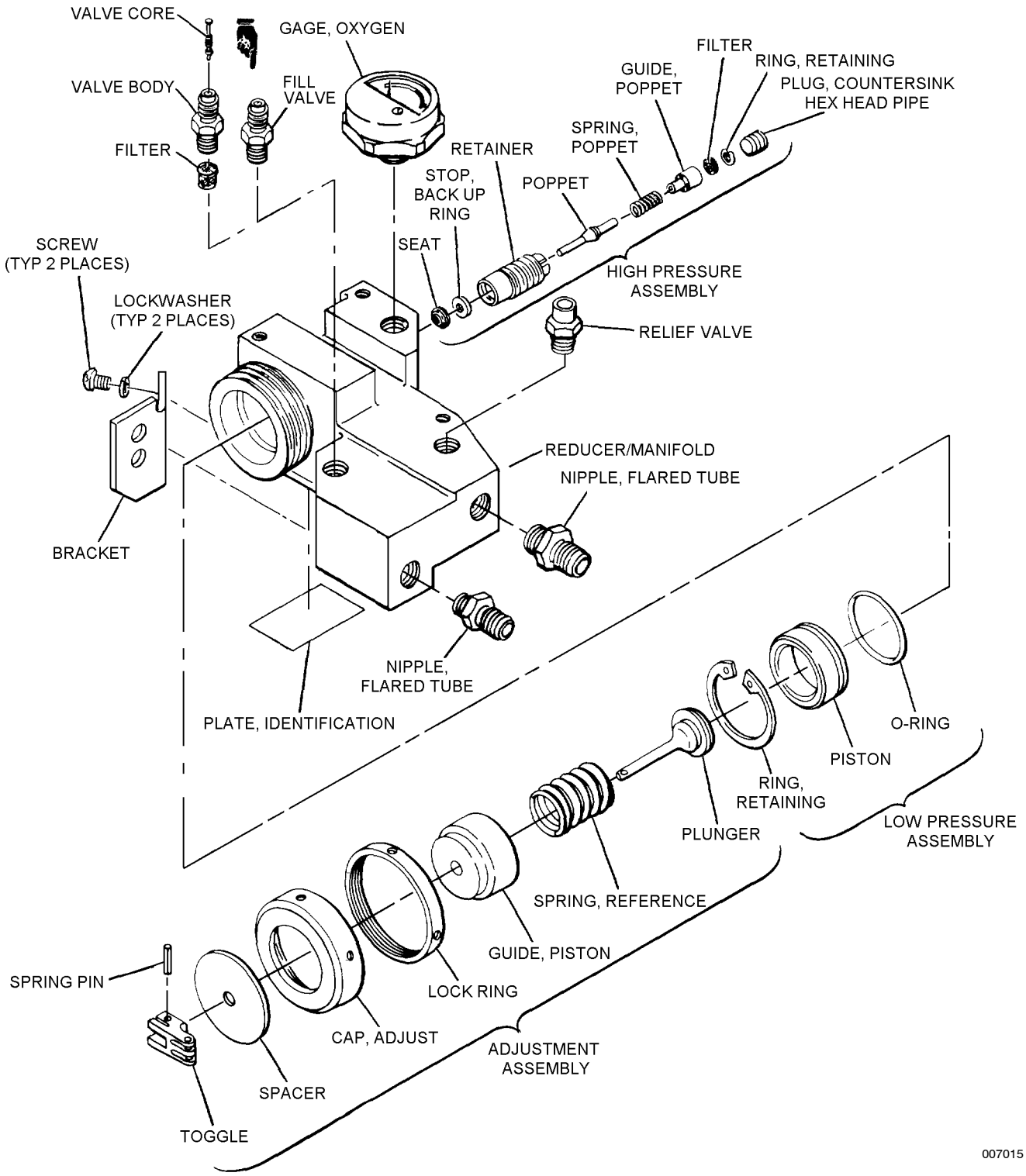


Figure 7-15. Reducer/Manifold Assembly (East/West)

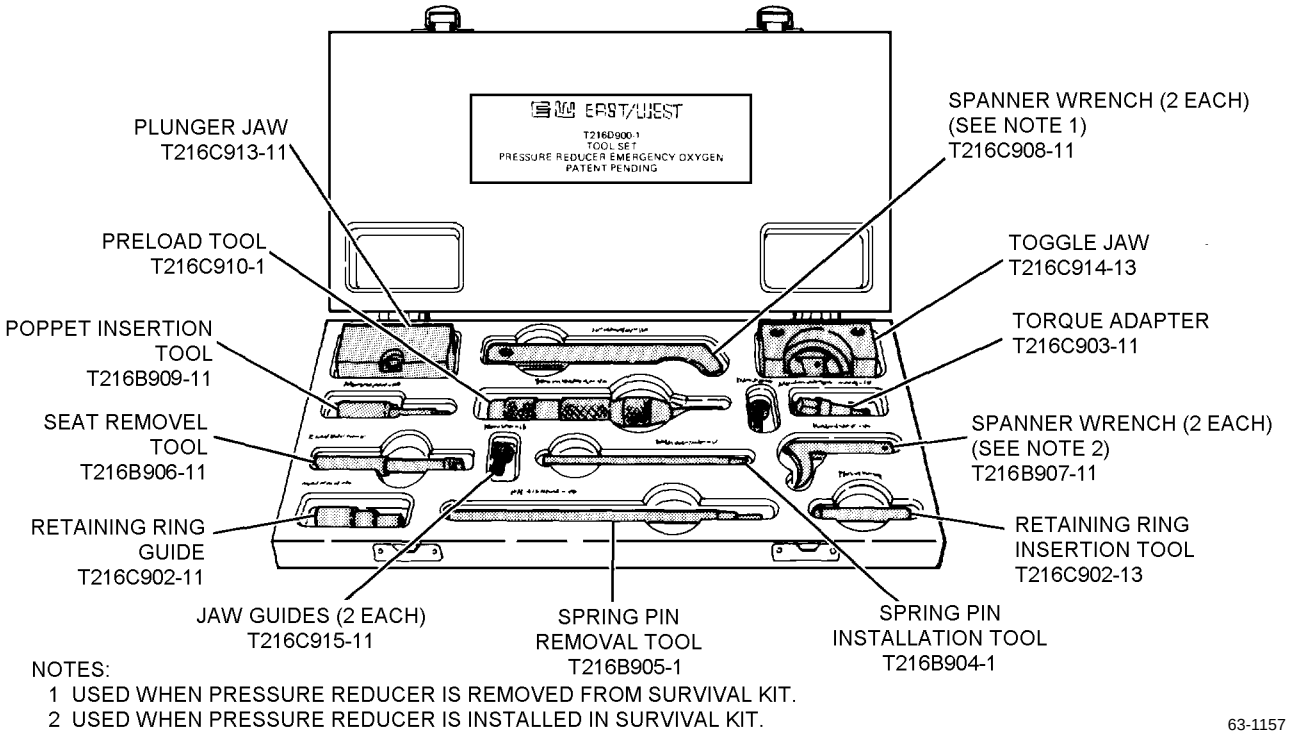
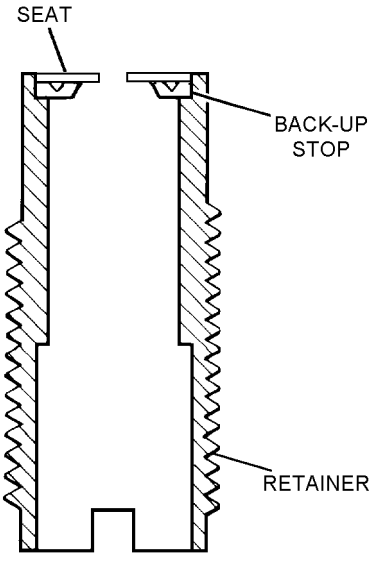


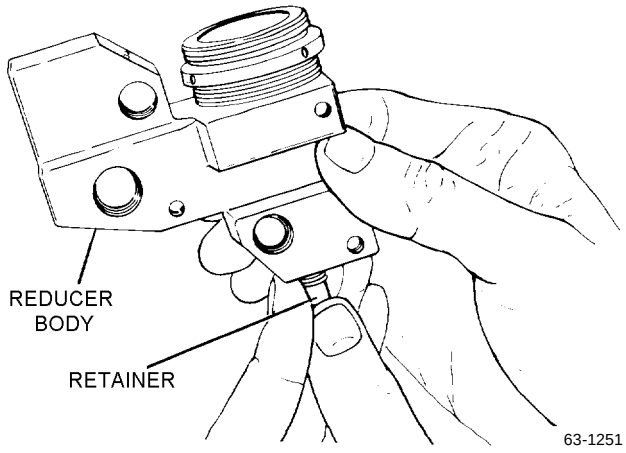
Figure 7-16. Emergency Oxygen Pressure Reducer Tool Set

f. Place seat on top backup stop ensuring proper alignment within retainer groove. Push firmly on seat with finger so that seat is retained in place.



Step 1f - Para 7-66

g. While holding retainer in an upright position with backup stop and seat positioned on top, lower reducer body onto retainer and slowly screw retainer into high pressure inlet port of reducer body.

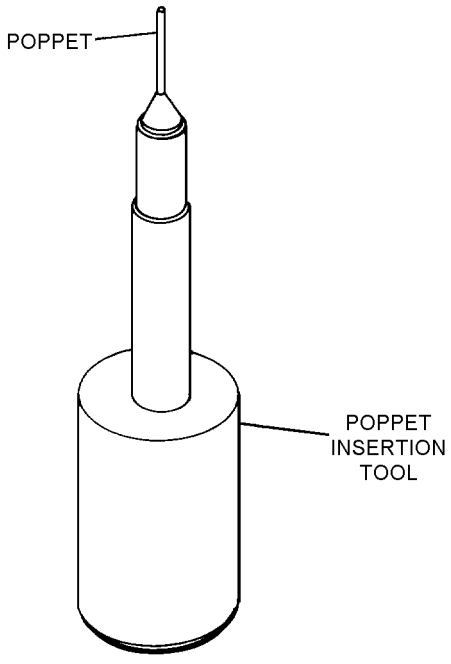


Step 1g - Para 7-66

h. Using torque adapter mounted on a 3/8-inch nut driver, continue screwing retainer into high pressure port until snug. Visually inspect for proper alignment of backup stop and seat into reducer body.

i. Torque retainer into reducer body to 32 to 35 lb-in, using retainer torque adapter and torque wrench.

j. Using poppet insertion tool, place poppet into tool so that cone-shaped part of poppet faces away from heavy end of tool

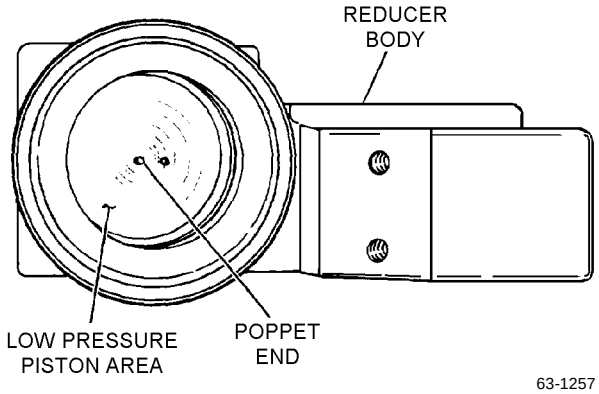


Step 1j - Para 7-66

CAUTION

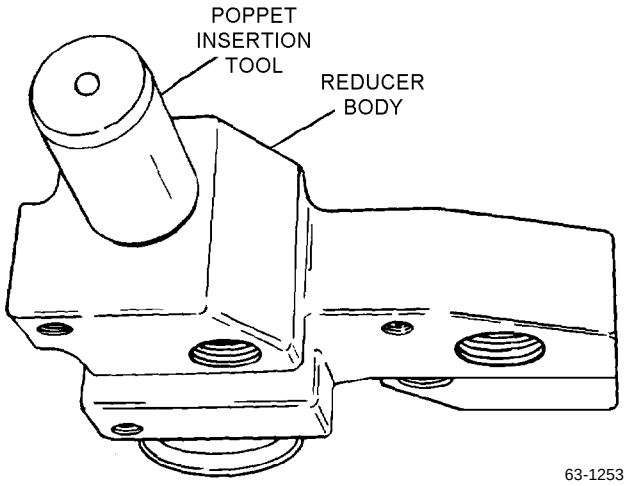
Be careful when inserting poppet that no pressure is applied which could bend poppet shaft. Be certain end of poppet extends into low pressure piston area.

k. Hold reducer body/housing with high pressure retainer side down. Slowly lower reducer housing onto poppet. Carefully rock and turn poppet insertion tool until poppet end is seen to extend into lower pressure piston area.



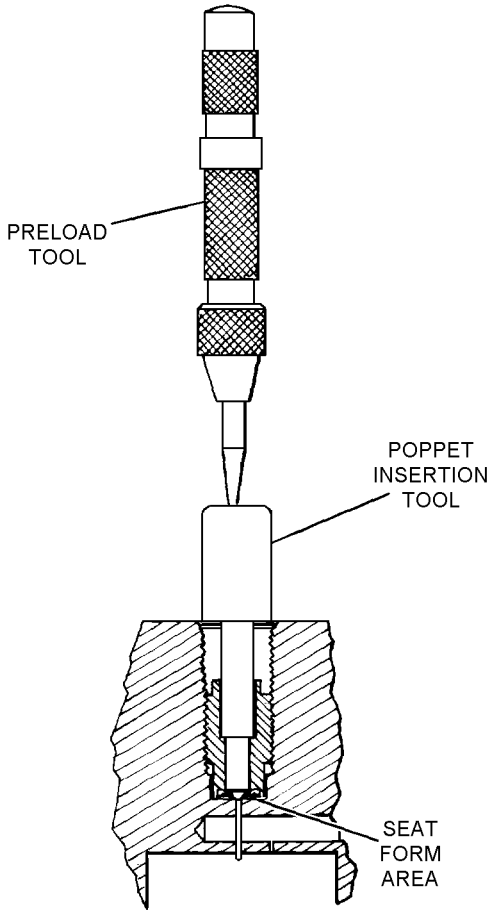
Step 1k - Para 7-66

l. Leaving poppet insertion tool inserted, turn entire assembly over so that high pressure or retainer assembly and poppet insertion tool are now facing up.



Step 1l - Para 7-66

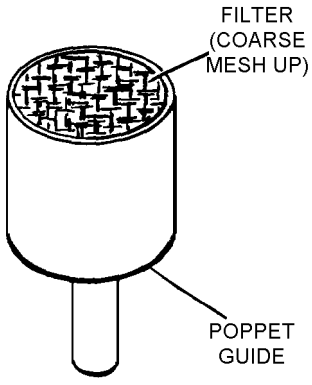
m. Place preload tool into dimple on top of poppet insertion tool. Press down once on preload tool until it unloads with a snap. This forms seat into its correct angle.



Step 1m - Para 7-66

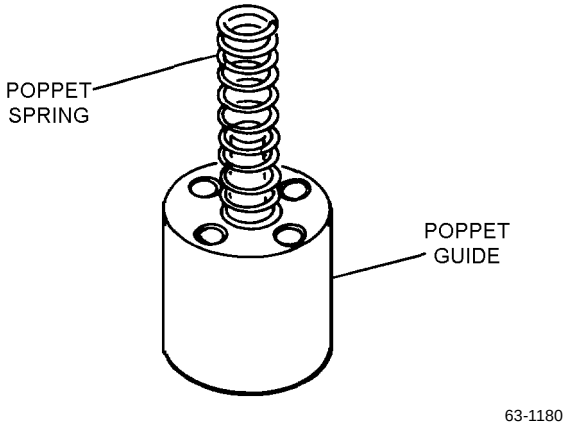
n. Remove poppet insertion tool so that poppet remains positioned inside reducer body.

o. Press filter with coarse mesh up into wide end of poppet guide.



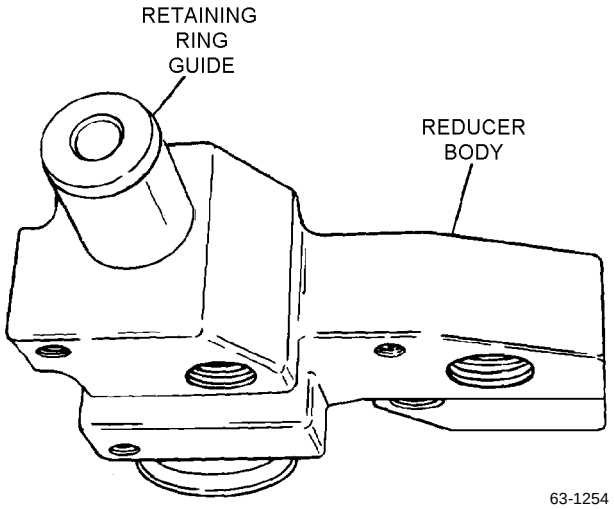
Step 1o - Para 7-66

p. Secure poppet spring to poppet guide by pressing spring onto shaft end of guide.



Step 1p - Para 7-66

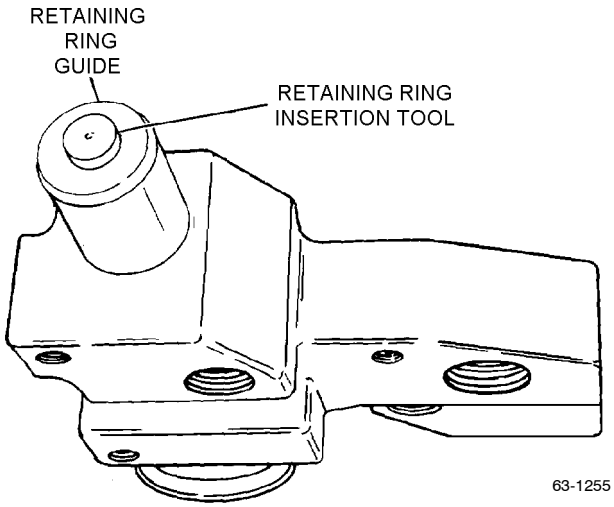
q. Position retaining ring guide into retainer so that the tool engages tangs of retainer.



Step 1q - Para 7-66

r. Insert poppet guide and spring with spring end down into opening in retaining ring guide.

s. Using retaining ring insertion tool, ensure that poppet guide and spring are properly positioned inside retainer.

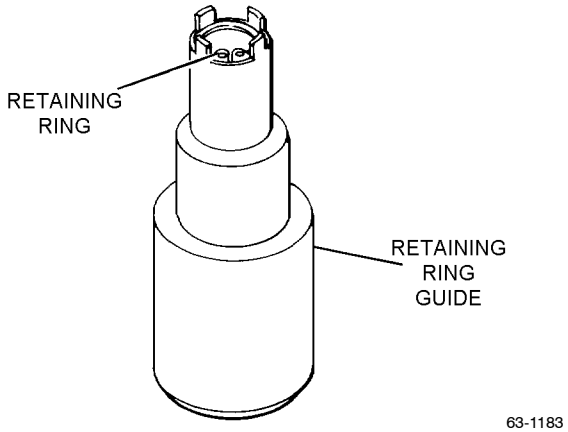


Step 1s - Para 7-66

t. Remove retaining ring insertion tool and retaining ring guide from reducer housing.

u. Visually check that filter end of poppet guide is slightly higher than ends of retainer.

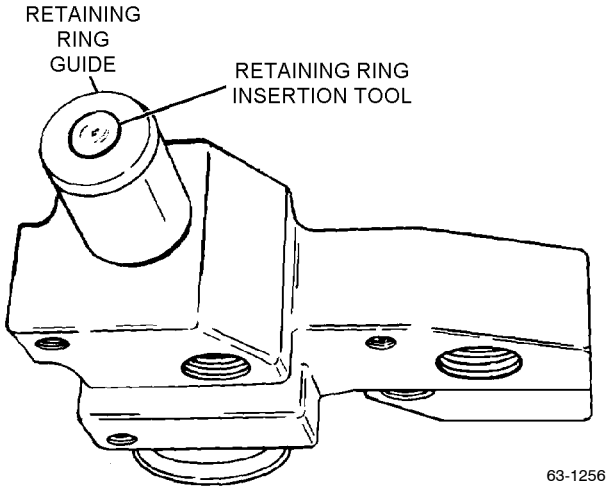
v. Using retaining ring pliers, install retaining ring inside tangs of retaining ring guide.



Step 1v - Para 7-66

w. Insert retaining ring guide into tangs of retainer. Insert retaining ring insertion tool into retaining ring guide.

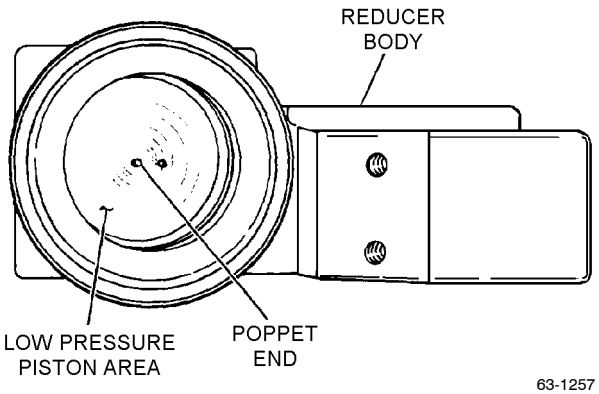
x. Compress poppet spring and seat retaining ring by pressing down on retaining ring insertion tool until flush with top of retaining ring guide.



Step 1x - Para 7-66

y. Remove retaining ring guide and insertion tool. Ensure retaining ring is properly seated in groove.

z. Verify that tip of poppet extends into lower pressure piston area.



Step 1z - Para 7-66

2. Assemble low pressure assembly as follows:

a. Ensure that high pressure assembly is properly assembled in accordance with step 1.

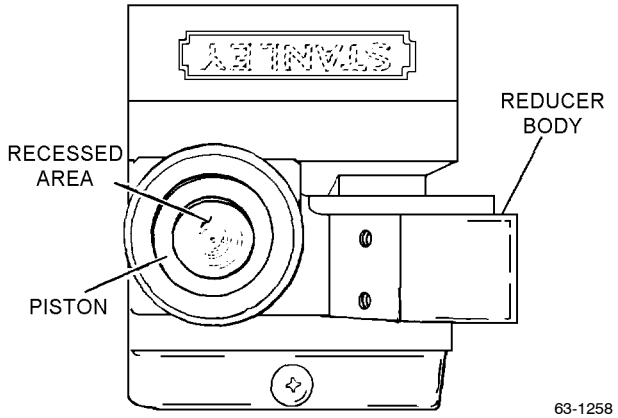
b. Ensure that all oxygen components to be assembled have been properly cleaned in accordance with NAVAIR 13-1-6.4-1.

c. Position oxygen pressure reducer assembly with adjustment side or low pressure side up and secure.

d. Lubricate new O-ring and mating surfaces with Krytox 240AZ. Install O-ring on piston.

e. Lubricate bore of reducer body with Krytox 240AZ.

f. Install piston, recessed end out, in bore of reducer body.



Step 2f - Para 7-66

g. Install retaining ring, using retaining ring pliers.

3. Assemble and preadjust adjustment assembly as follows:

a. Ensure that high pressure and low pressure assemblies have been properly assembled in accordance with steps 1 and 2.

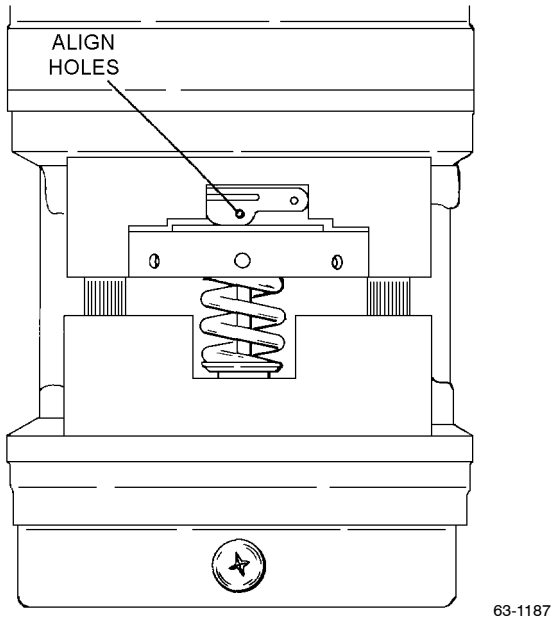
b. Ensure that all oxygen components to be assembled have been properly cleaned in accordance with NAVAIR 13-1-6.4-1.

c. Using appropriate Allen key, screw jaw guides into two threaded holes in toggle jaw.

d. Place toggle and plunger jaws in vise.

e. Assemble adjustment assembly components in proper sequence (figure 7-15). Position components in toggle and plunger jaws.

f. Apply vise pressure to compress spring. Align hole in toggle with hole in plunger end.



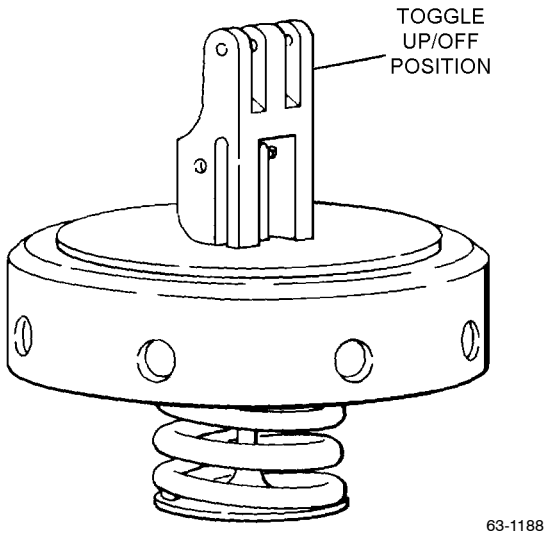
Step 3f - Para 7-66

g. With hole in toggle and hole in plunger aligned, insert new spring pin using spring pin installation tool. Insert spring pin into toggle hole as far as tool will permit. Remove tool and gently drive remainder of spring pin into toggle, using drift pin.

h. Slowly open vise jaws and ensure that assembly is properly secured.

i. Remove adjustment assembly from toggle and plunger jaws.

j. Using toggle reset tool, rotate toggle to upright (OFF) position.



Step 3j - Para 7-66

k. Position reducer assembly with cap adjustment side up.

l. Install lock ring onto reducer body.

NOTE

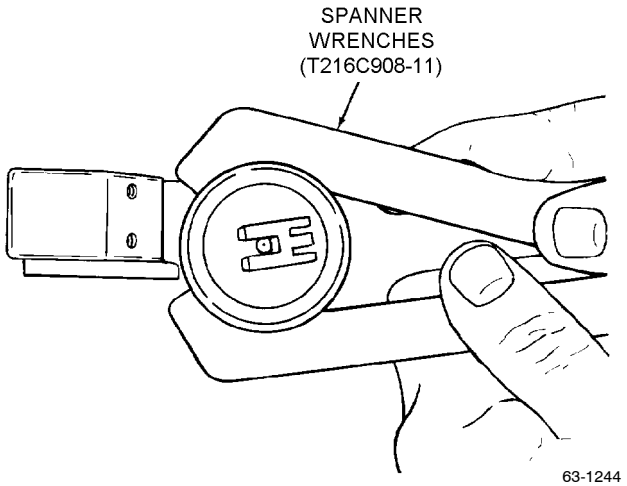
Ensure lock ring does not contact adjustment assembly during installation.

m. Install adjustment assembly onto reducer body by engaging screw threads and rotating clockwise to its lowest position.

n. Back off adjusting cap two complete turns for preadjustment.

o. Turn lock ring counterclockwise until snug with adjusting cap.

p. Place one spanner wrench (T216C908-11) in lock ring and second spanner wrench on adjusting cap and secure.



Step 3p - Para 7-66

4. Assemble oxygen gage, filler valve, two flare tube nipples and plug (figure 7-15) as follows:

a. Ensure that all oxygen components to be assembled have been properly cleaned in accordance with NAVAIR 13-1-6.4-1.

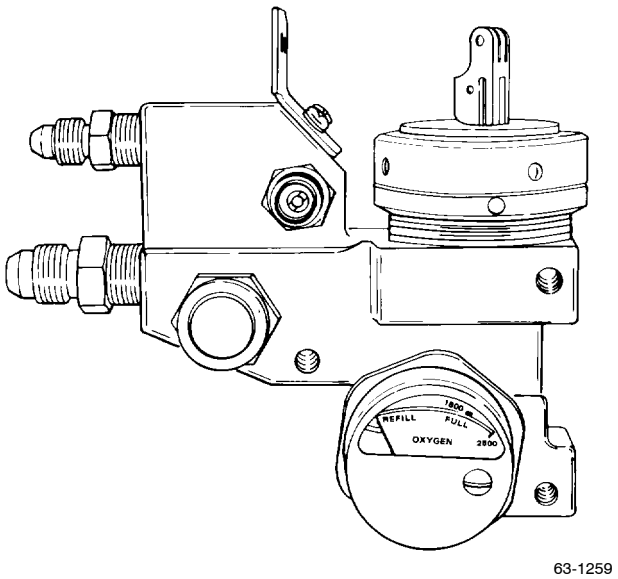
b. Apply antiseize tape to threads of oxygen gage. Install gage.

c. Install new filter in filler valve port.

d. Apply antiseize tape to threads of filler valve assembly. Install filler valve assembly.

e. Apply antiseize tape to threads of plug and install.

f. Install bracket with two screws and two lockwashers.



Step 4f - Para 7-66

7-67. (EAST/WEST ONLY) ADJUSTMENT OF REDUCER/MANIFOLD ASSEMBLY. To adjust flow rates and outlet pressures on the reducer/manifold assembly, proceed as follows:

Support Equipment Required

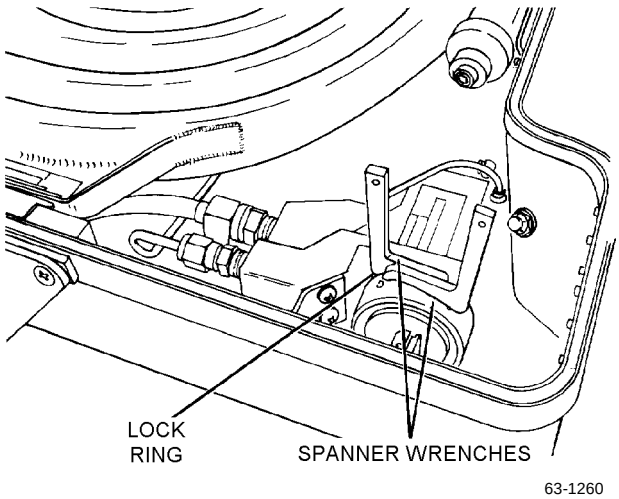
Quantity	Description	Reference Number
2	Spanner Wrenches (Note 1)	T216B907-11 (Note 3)
	-or-	
2	Spanner Wrenches (Note 2)	T216C908-11 (Note 3)

Notes:
1. Used when reducer/manifold assembly is installed in survival kit.
2. Used when reducer/manifold assembly is removed from survival kit.
3. The spanner wrenches are part of Pressure Reducer Tool Set P/N T216D900-1 (CAGE 30941).

NOTE

Although the following illustrations depict adjustment of the pressure reducer installed on the upper lid assembly, procedures for a disconnected reducer are the same with the exception of the spanner wrenches used in the adjustment procedures. See Support Equipment Required for correct spanner wrenches.

1. Using spanner wrenches, loosen pressure reducer lock ring.



Step 1 - Para 7-67

2. Turn adjusting cap counterclockwise to decrease pressure or clockwise to increase pressure.

3. Tighten pressure reducer lock ring.

4. Perform functional check on kit in accordance with paragraph 7-39.

7-68. (POST ASSEMBLY) LEAK TEST OF BLOCK ASSEMBLIES. Any disassembly of the intermediate, lower, or upper block will necessitate performing a leak test to ensure proper assembly and no leakage.

Materials Required

Quantity	Description	Reference Number
As Required	Leak Detection Compound, Type I	MIL-L-25567

7-69. Leak Test of Intermediate Block Assembly. To leak test the intermediate block assembly, proceed as follows:

WARNING

Before use, inspect leak detection compound. Compound which is not clear and free from suspended material/sediment is considered contaminated and shall be disposed of. Compound exhibiting peculiar odors, such as acetone or alcohol, is considered contaminated and shall be disposed of.

NOTE

A spare upper block assembly and lower block assembly are required for this test.

1. Mate upper block assembly and intermediate block assembly being tested. Seal outlet of connector.

2. Connect regulated nitrogen pressure source to oxygen fitting of upper block assembly, and pressurize to 90 psi.

3. Submerge blocks in clean water, or apply leak detection compound to all pressure lines and fittings to ensure no leakage. (If leak detection compound is used, clean all areas thoroughly after test.)

4. Relieve nitrogen pressure, and mate lower block assembly to intermediate block assembly.

5. Seal oxygen, vent air, and anti-g fittings of lower block assembly.

6. Apply 90 psi nitrogen to oxygen fitting, 4.0 psi to vent air fitting, and 15 psi to anti-g fitting of upper block assembly.

7. Submerge blocks in clean water, or apply leak detection compound to all pressure lines and fittings to ensure no leakage. (If leak detection compound is used, clean all areas thoroughly after test.)

8. After test, relieve nitrogen pressure, disconnect blocks, remove seals, and dry block assemblies thoroughly.

7-70. Leak Test of Lower Block Assembly. To leak test the lower block assembly, proceed as follows:

WARNING

Before use, inspect leak detection compound. Compound which is not clear and free from suspended material/sediment is considered contaminated and shall be disposed of. Compound exhibiting peculiar odors, such as acetone or alcohol, is considered contaminated and shall be disposed of.

NOTE

A spare upper block assembly and intermediate block assembly are required for this test.

1. Connect regulated nitrogen pressure source to vent air, oxygen, and anti-g fittings of lower block assembly.

2. Open valve of nitrogen source and apply 80 psi of nitrogen pressure to lower block oxygen line, 15 psi to the anti-g line, and 4.0 psi to vent air line.

3. Submerge blocks in clean water, or apply leak detection compound to all pressure lines and fittings to ensure no leakage. (If leak detection compound is used, clean all areas thoroughly after test.)

4. Relieve nitrogen pressure, and mate intermediate and upper blocks to lower block. Seal outlet ports of the upper block and connector of intermediate block.

5. Open valve of nitrogen source and apply 80 psi of nitrogen pressure to lower block oxygen line, 15 psi to the anti-g line, and 4.0 psi to vent air line.

6. Submerge blocks in clean water, or apply leak detection compound to all pressure lines and fittings to ensure no leakage. (If leak detection compound is used, clean all areas thoroughly after test.)

7. Relieve and remove nitrogen pressure. Disconnect block assemblies, remove all seals, and thoroughly dry block assemblies.

7-71. Leak Test of Upper Block Assembly. To leak test the upper block assembly, proceed as follows:

WARNING

Before use, inspect leak detection compound. Compound which is not clear and free from suspended material/sediment is considered contaminated and shall be disposed of. Compound exhibiting peculiar odors, such as acetone or alcohol, is considered contaminated and shall be disposed of.

NOTE

A spare intermediate block assembly is required for this test.

1. Connect regulated nitrogen pressure source to oxygen and vent air fittings of upper block.

2. Mate upper block with intermediate block assembly, and seal connector of intermediate block.

3. Open valve of nitrogen source and pressurize upper block oxygen fitting to 80 psi and vent air fitting to 4.0 psi.

4. Submerge blocks in clean water, or apply leak detection compound to all pressure lines and fittings to ensure no leakage. (If leak detection compound is used, clean all areas thoroughly after test.)

5. After test, relieve nitrogen pressure. Disconnect upper block from intermediate block, remove seal, and thoroughly dry block assemblies.

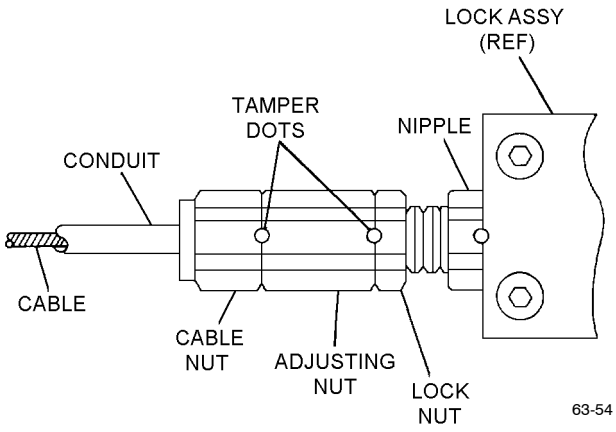
7-72. ADJUSTMENTS.

7-73. ADJUSTMENT OF LOCK ASSEMBLIES. If locks fail to release simultaneously, adjust (advance or retard) as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Lacquer, Fed. Std. 595	MIL-L-7178

1. To advance the release operation, loosen lock nut and back off adjusting nut, away from assembly to desired amount.



Step 1 - Para 7-73

2. When desired timing is achieved, tighten lock nut against adjusting nut.

3. To retard the release operation, proceed in accordance with steps 1 and 2, except rotate adjusting nut toward assembly.

4. Apply tamper dots on nuts with lacquer. Use any contrasting color when applying tamper dots to nuts.

7-74. (ROCKET JET) ADJUSTMENT OF EMERGENCY OXYGEN, REDUCER/MANIFOLD, ACTUATING CABLES. To adjust the cables on the reducer/manifold assemblies P/N 741370 and P/N 741370-1, proceed as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Lacquer, Fed. Std. 595	MIL-L-7178

NOTE

There are two possible reducer/manifold assemblies that may be found on Rocket Jet RSSK-1/1A Survival Kits. Although the basic adjustment procedures are the same, differences in cable routing make it mandatory to first establish which reducer is being adjusted. When reducer configuration is established, proceed to step 1 or step 2, whichever step is applicable.

1. Reducer/Manifold Assembly (P/N 741370). To adjust the cables on reducer/manifold assembly (P/N 741370), proceed as follows:

NOTE

Because of known problems in cable installation, it is important at this point to establish the correct intermediate block and cable assembly to be used in conjunction with reducer/manifold assembly (P/N 741370). Reducer/manifold assembly (P/N 741370) utilizes a P/N 741290 intermediate block and a P/N 741275 cable assembly only.

Cable (2) from intermediate block shall be routed over top of toggle arm (7). Cable (3) to manual oxygen release shall be routed straight through toggle arm with one ball on each side of pin (8) (figure 7-17).

a. Remove E-ring (4), loosen nut (5), and turn adjusting terminal (6) to provide result (refer to paragraph 7-39). To slacken cable, back off adjusting terminal away from toggle arm (7); to tighten cable, turn adjusting terminal toward toggle arm (figure 7-17).

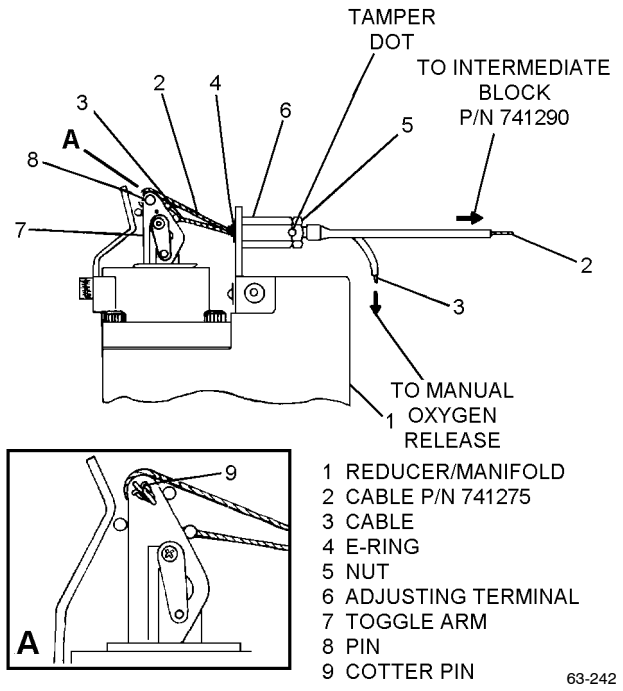


Figure 7-17. Reducer/Manifold Assembly P/N 741370 Cable Routing

b. After adjustment of cable, reinstall E-ring (4), tighten nut (5) against adjusting terminal (6), and apply tamper dot to nut (5) and adjusting terminal (6).

2. Reducer/Manifold Assembly (P/N 741370-1). To adjust the cables on reducer/manifold assembly (P/N 741370-1), proceed as follows:

NOTE

Because of known problems in cable installation, it is important at this point to install the correct intermediate block and cable assembly to be used in conjunction with reducer/manifold assembly (P/N 741370-1). Reducer/manifold assembly P/N 741370-1 uses a P/N 741290-1 intermediate block and a P/N 741275-1 cable assembly only.

Cable (2) from intermediate block shall be routed through the top of toggle arm (7). Proper position of cable (2) is one swaged ball on side of toggle arm (7), farthest from intermediate block, and two swaged balls between toggle arm and adjusting terminal (6). Cable (3) from manual oxygen release shall be routed through toggle arm (7) with one swaged ball on each side of toggle arm (figure 7-18).

a. Remove E-ring (4), loosen nut (5), and turn adjusting terminal (6) to provide desired result (refer to paragraph 7-39). To slacken cable, back off adjusting terminal away from toggle arm (7); to tighten cable, turn adjusting terminal toward toggle arm (figure 7-18).

b. After adjustment of cable, reinstall E-ring (4), tighten nut (5) against adjusting terminal (6), and apply tamper dot to nut (5) and adjusting terminal (6). Use any contrasting color when applying tamper dots to nut and adjusting terminal.

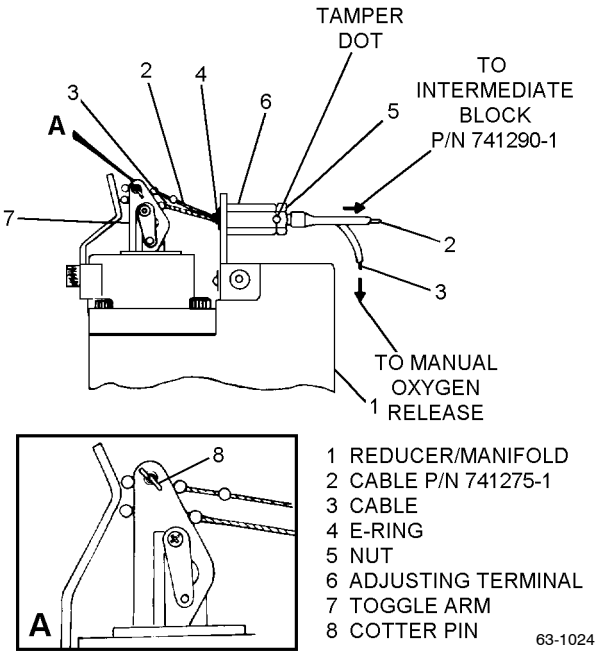


Figure 7-18. Reducer/Manifold Assembly P/N 741370-1 Cable Routing

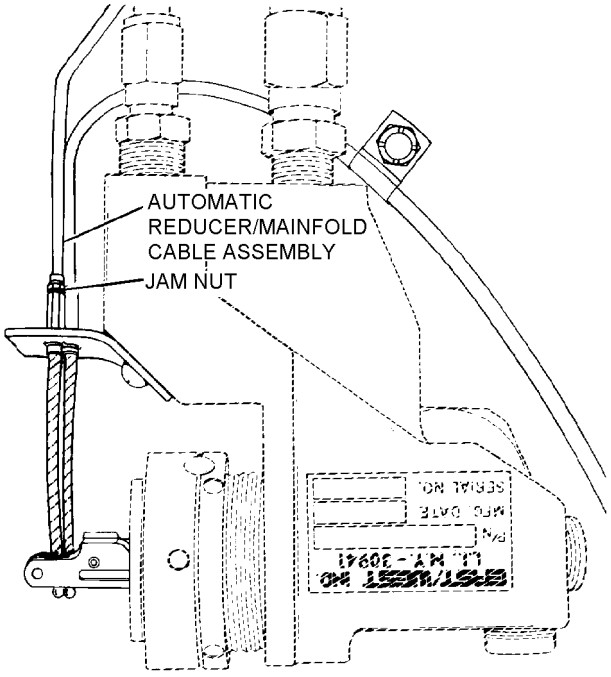
7-75. (EAST/WEST) ADJUSTMENT OF AUTOMATIC REDUCER/MANIFOLD CABLE. To adjust the automatic reducer/manifold, proceed as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Lacquer, Fed. Std. 595	MIL-L-7178

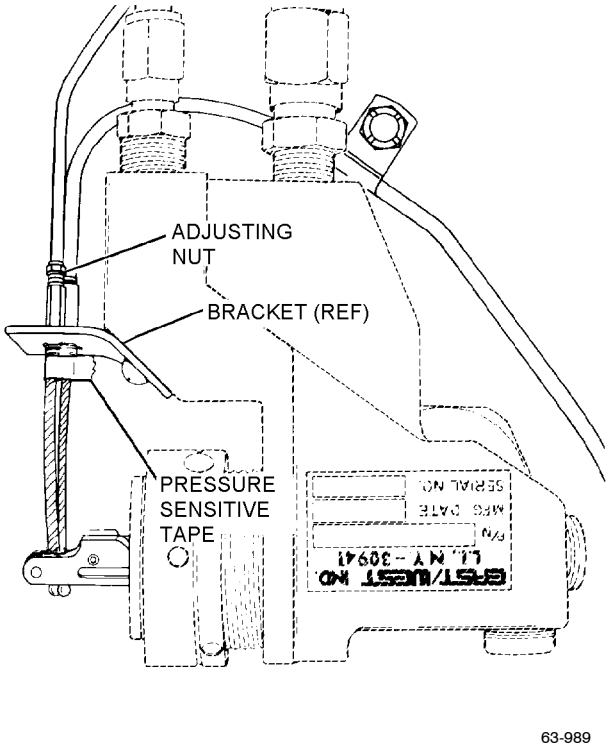
1. Ensure that the toggle arm is in the cocked position.

2. Loosen the jam nut on the nipple of the automatic reducer/manifold cable assembly.



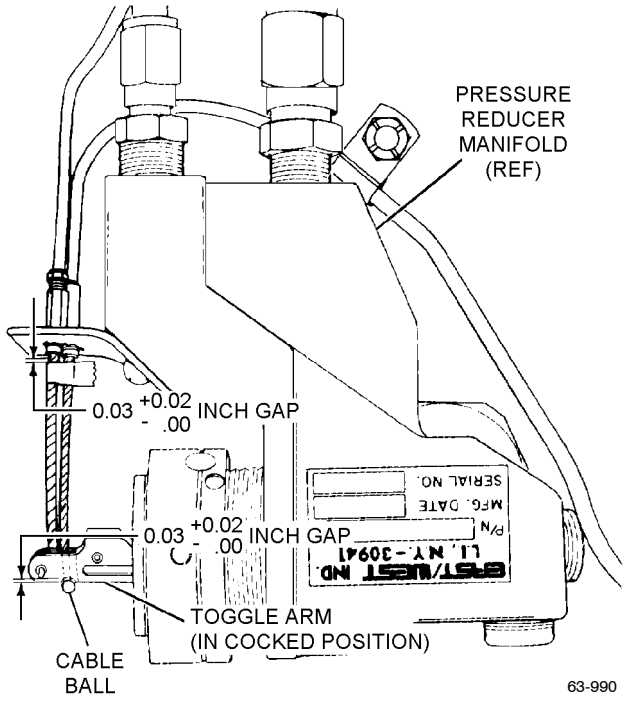
Step 2 - Para 7-75

3. Turn the adjusting nut in the direction necessary to provide a gap of 0.03 +0.02, -0.00 inch between the cable ball and toggle arm. To check clearance, push cable into conduit assembly until cable ball is seated in slot of toggle arm. Place a piece of pressure sensitive tape around cable with edge of tape flush against end of adjustment point.



Step 3 - Para 7-75

4. With tape in place, pull cable forward and measure the distance between edge of tape and end of adjusting nut. Make adjustment as necessary to obtain desired measurement.



Step 4 - Para 7-75

5. Tighten jam nut and remove tape.

WARNING

Ensure that toggle arm is placed upright (not canted, turned, or overcocked) and positioned such that it will trip directly towards cable guide bracket.

Ensure cables and cable balls are not wrapped around reducer toggle and jammed against the inside of the kit lid.

6. Perform functional test in accordance with paragraph 7-39.

7. Apply tamper dot to jam nut and adjusting nut on automatic reducer/manifold cable. Use any contrasting color when applying tamper dots to jam nut and adjusting nut.

7-76. (SCOTT) ADJUSTMENT OF REDUCER/MANIFOLD CABLES. To adjust the reducer/manifold cables, proceed as follows:

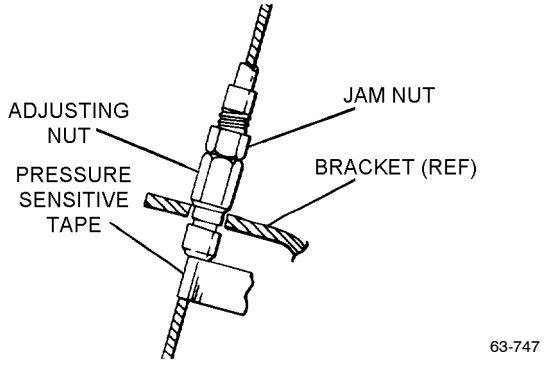
Materials Required

Quantity	Description	Reference Number
As Required	Lacquer, Fed. Std. 595	MIL-L-7178

1. Ensure that the toggle arm is in the cocked position.

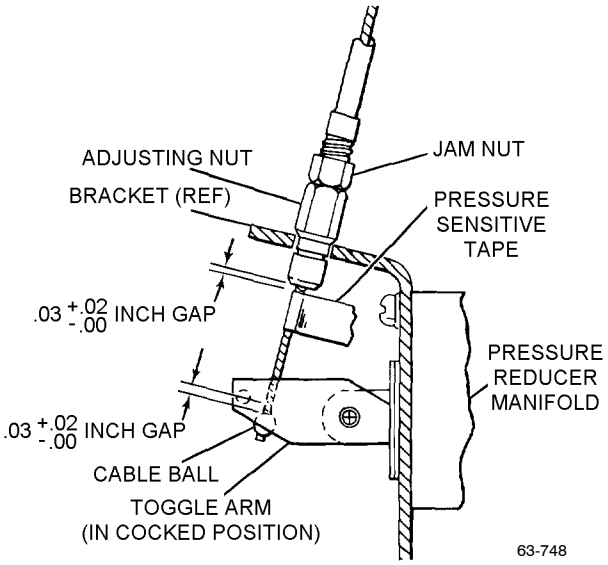
2. Loosen the jam nut on the nipple at the forward end of the intermediate actuated cable housing.

3. Turn adjusting nut in direction necessary to provide gap of 0.03 +0.02, -0.00-inch between cable ball and toggle arm. To check clearance, push cable toward intermediate block until cable ball seats in toggle arm. Then place piece of pressure-sensitive tape around cable, with edge of tape flush against end of adjusting nut.



Step 3 - Para 7-76

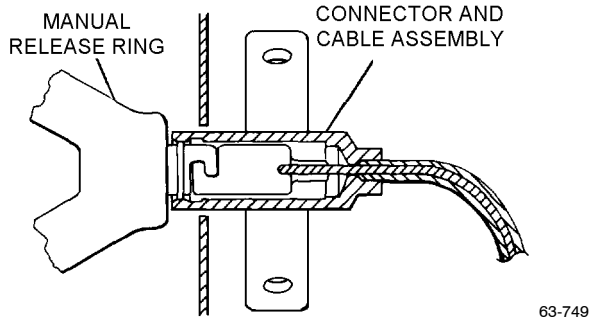
4. With tape in place, pull cable forward, and measure distance between edge of tape and end of adjusting nut. Make adjustment as necessary to obtain desired measurements.



Step 4 - Para 7-76

5. Tighten jam nut, remove tape, and apply tamper dot to jam nut and adjusting nut. Use any contrasting color when applying tamper dots to jam nut and adjusting nut.

6. Ensure manual release ring is in stowed position.



Step 6 - Para 7-76

7. Loosen jam nut on nipple at reducer/manifold end of manual release ring actuated cable housing.

8. To adjust manual release ring cable, repeat steps 3 through 5.

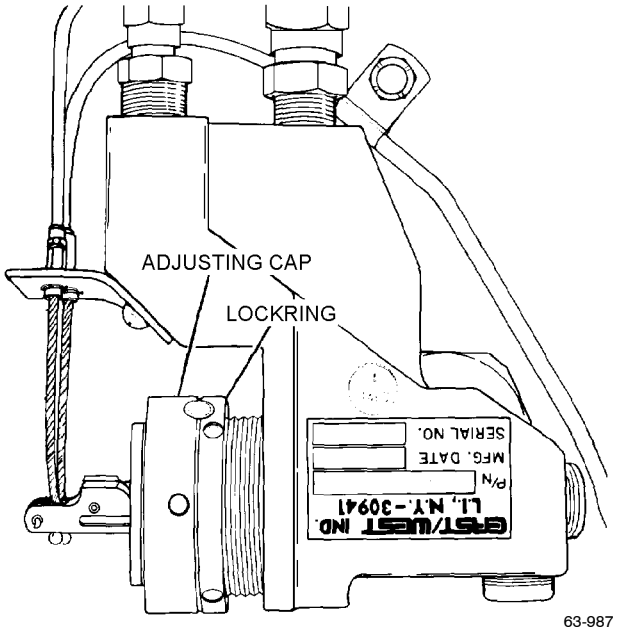
9. Perform functional test in accordance with paragraph 7-39.

7-77. (EAST/WEST) ADJUSTMENT OF THE PRESSURE REDUCER ASSEMBLY. To adjust flow rates and outlet pressures on the reducer assembly, proceed as follows:

1. Loosen lockring.

2. Turn adjusting cap counterclockwise to decrease pressure, clockwise to increase pressure.

3. Tighten lockring.



Step 3 - Para 7-77

4. Perform functional check on kit in accordance with paragraph 7-39.

7-78. ADJUSTMENT OF RELIEF VALVE. If the relief valve fails to unseat within the 120 to 140 psi tolerance, adjust relief valve as follows:

1. Remove relief valve from reducer/manifold.

2. Loosen hex locknut (figure 7-19) using the relief valve adjustment tool, (paragraph 7-88).

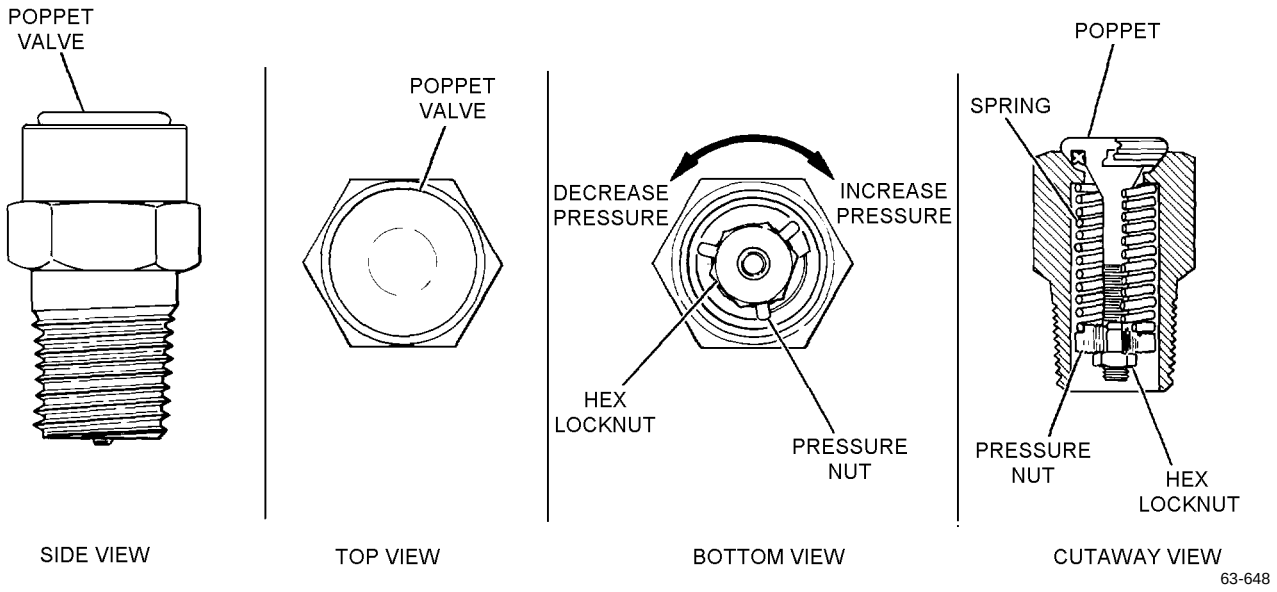


Figure 7-19. Adjustable Relief Valve (Typical)

3. Adjust the valve unseating pressure by turning three prong pressure nut clockwise to increase relief valve pressure and counterclockwise to decrease relief pressure (figure 7-19).

NOTE

The adjustment of the three prong pressure nut is performed in incremental rotations of 1/2 plus or minus 1/4 turns.

4. Tighten hex locknut.

5. Install relief valve, and perform functional check in accordance with paragraph 7-39.

7-79. ELECTRICAL CHECK.

7-80. ELECTRICAL CHECK (BLOCKS). To perform an insulation breakdown and electrical continuity check on the block assemblies, proceed as follows (figure 7-20).

Support Equipment Required

Quantity	Description	Reference Number
1	500 VDC Megger	—
1	Ohmmeter or equivalent	—

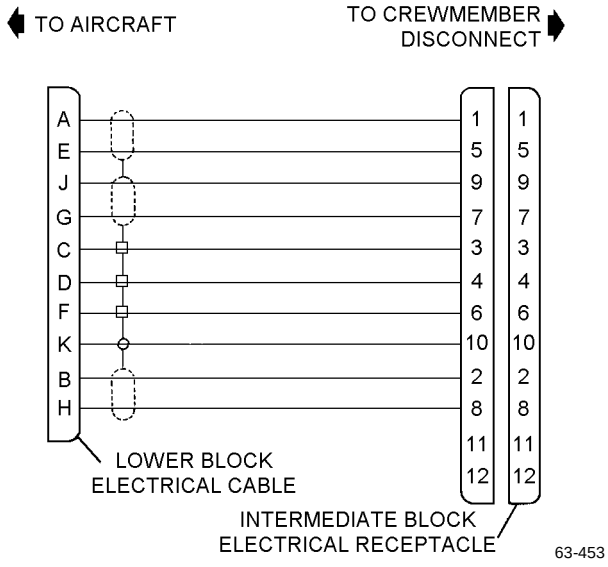


Figure 7-20. Electrical Schematic (Blocks)

1. Using a 500 VDC Megger, perform an insulation breakdown test. The insulation resistance shall be measured at a test potential of 500 ±50 volts dc applied for not less than 0.1 second. Check the resistance between any two conductors. Indication shall be 100 megohms or greater.

NOTE

Ensure the Rx1 scale is used in the performance of the electrical continuity check.

2. Using an ohmmeter or its equivalent, perform an electrical continuity check by checking the continuity of each wire at its respective termination point.

Section 7-7. Fabrication

7-81. GENERAL.

7-82. This section contains instructions for fabrication of tools and components that can be manufactured by local maintenance activities.

7-83. TOGGLE RESET TOOL. To fabricate a toggle reset tool, proceed as follows:

1. Modify a standard slot screwdriver in accordance with figure 7-21.

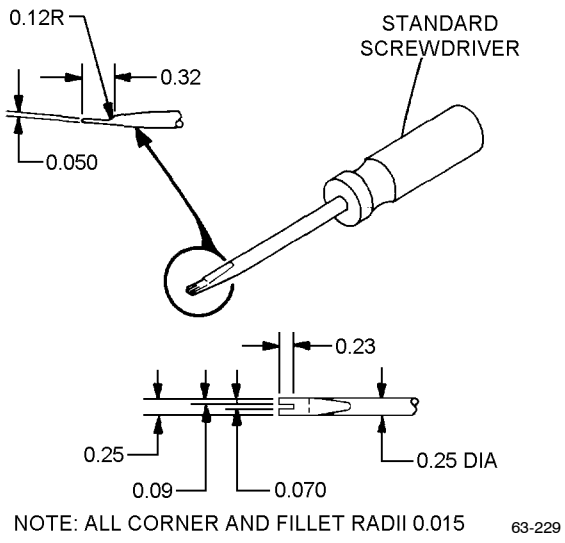


Figure 7-21. Toggle Reset Tool

7-84. DROPLINE. To fabricate a dropline, proceed as follows:

Materials Required

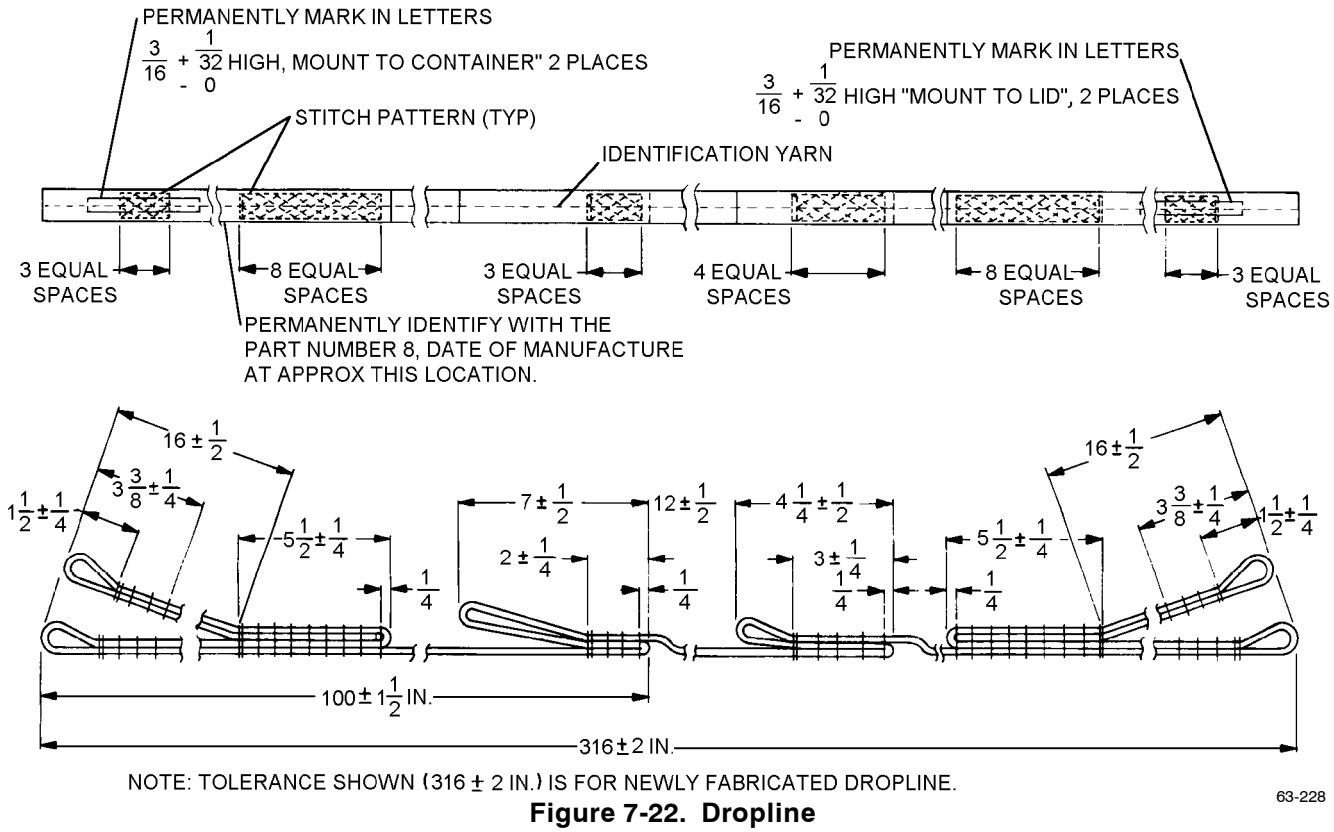
Quantity	Description	Reference Number
As Required	Webbing, 3/4-Inch Wide, Tubular, Yellow	MIL-W-5625 NIIN 00-753-6531
As Required	Thread, Nylon, Type I, Class A, Size FF, Color: White	V-T-295 NIIN 00-267-3024

1. Lay out webbing and position identification yarn on top before proceeding.

2. Construct a dropline in accordance with figure 7-22.

3. Sear exposed ends of webbing.

4. All stitching shall be Type 301, ASTM-D-6193, 8 to 10 stitches per inch, and backstitched 1/2 inch minimum.



NOTE: TOLERANCE SHOWN (316 ± 2 IN.) IS FOR NEWLY FABRICATED DROPLINE.

63-228

Figure 7-22. Dropline

7-85. BOOT. To fabricate a boot, proceed as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Nylon	MIL-C-8135 -or- MIL-C-81395
As Required	Thread, Nylon, Type I, Class A, Size FF, Color: White	V-T-295 NIIN 00-267-3024

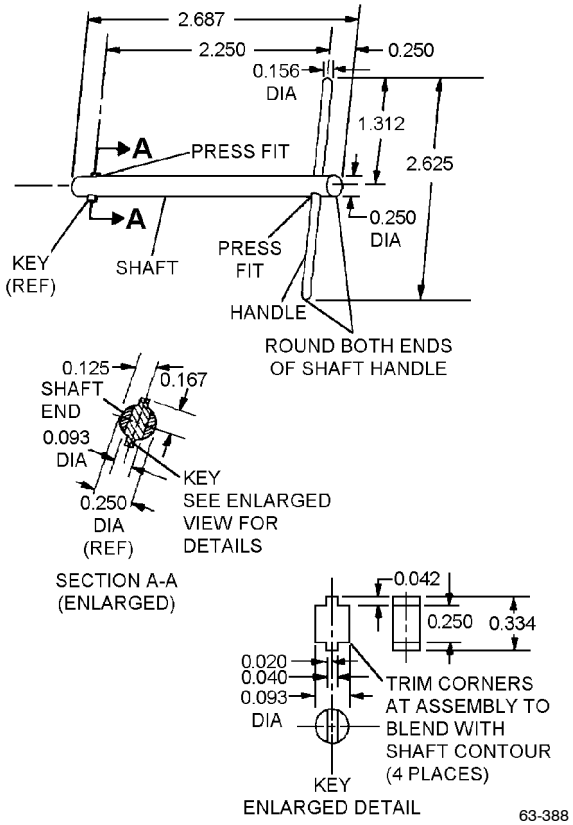
1. Construct a boot in accordance with figure 7-23.

2. Sear exposed ends of webbing and avoid sharp edges.

3. All stitching shall be Type 301, ASTM-D-6193, 8 to 10 stitches per inch, and backstitched 1/2 inch minimum.

7-86. T-WRENCH. To fabricate a T-wrench, proceed as follows:

1. Fabricate wrench from steel as shown.



63-388

Step 1 - Para 7-86

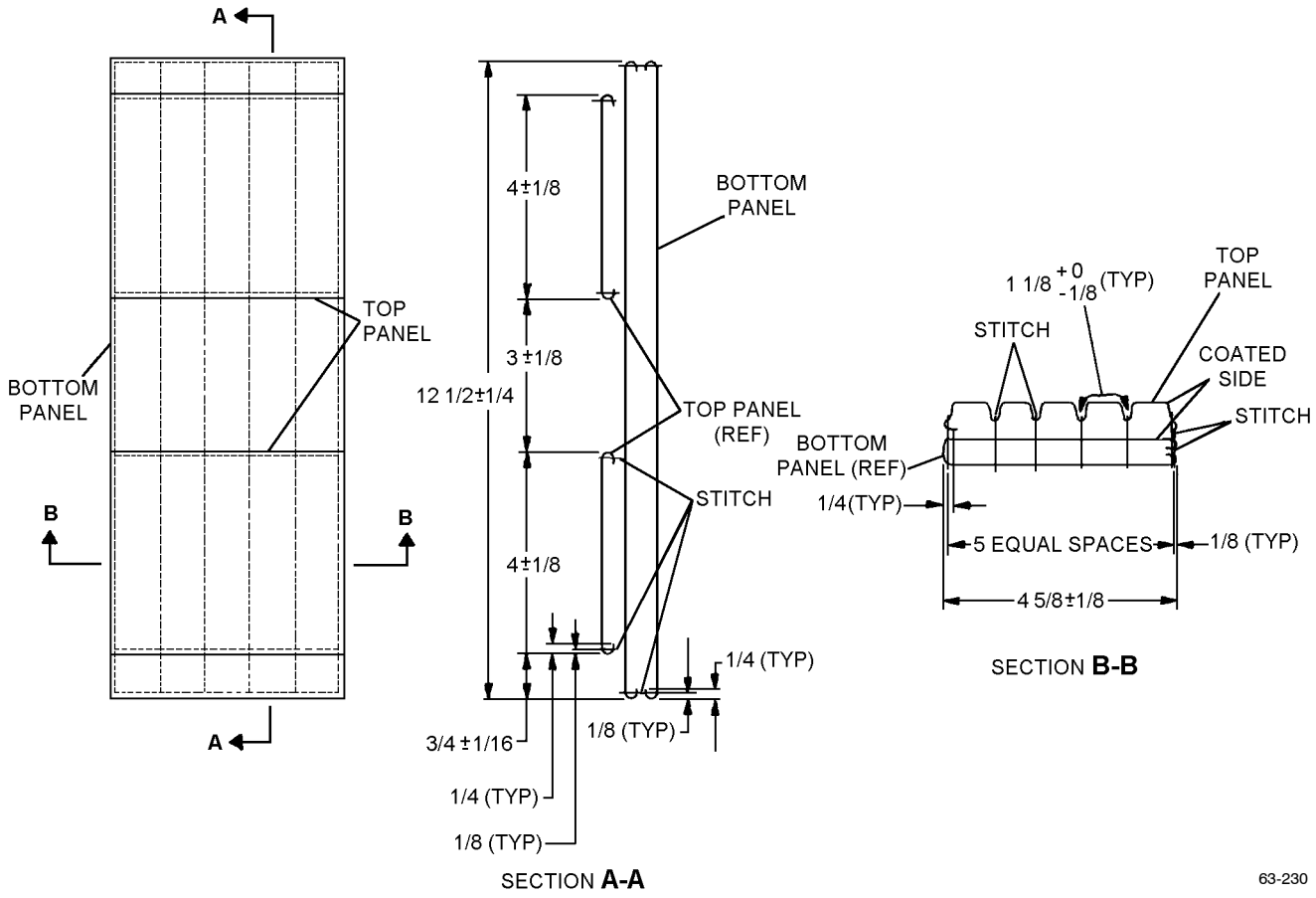


Figure 7-23. Boot

7-87. BRAKE RIDER'S STRAP. To fabricate a brake rider's strap, proceed as follows:

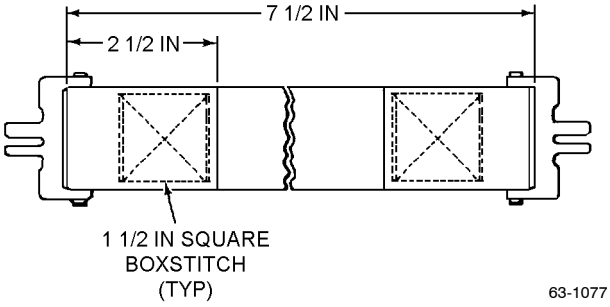
Materials Required

Quantity	Description	Reference Number
2	Release Assembly Lapbelt Fitting	015-11366-1 (CAGE 99449)
24 Inches	Webbing, Nylon Type XXVII, 1 23/32 Inches Wide	MIL-W-4088 NIIN 00-530-1489
As Required	Thread, Nylon Type II, Class A, Size 6	V-T-295 NIIN 00-559-5211

1 Cut a piece of nylon webbing 24 inches in length.

2. Sear exposed ends of webbing.

3. Secure fittings with 1 1/2-inch square boxstitch. All stitching shall be Type 301, ASTM-D-6193, 4 to 6 stitches per inch, and backstitch 1/2-inch minimum.



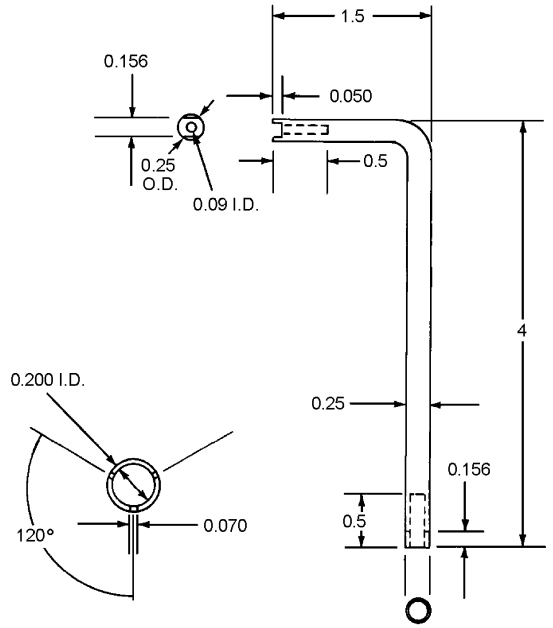
Step 3 - Para 7-87

7-88. RELIEF VALVE ADJUSTMENT TOOL. To fabricate a relief valve adjustment tool proceed as follows:

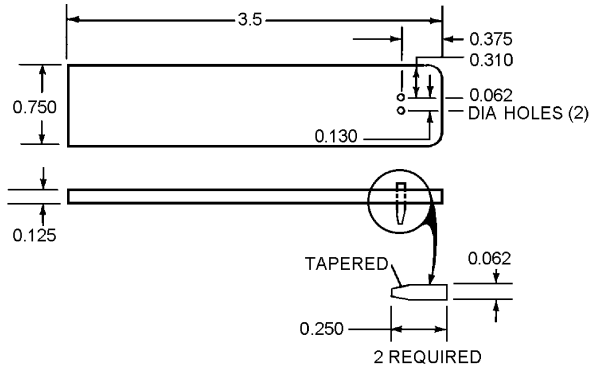
Materials Required

Quantity	Description	Reference Number
As Required	Mild Steel or Brass	—

1. Fabricate relief valve adjustment tool from mild steel or brass as shown.



THREE PRONG PRESSURE NUT ADJUSTABLE TYPE



CAP ADJUSTABLE TYPE

63-3053

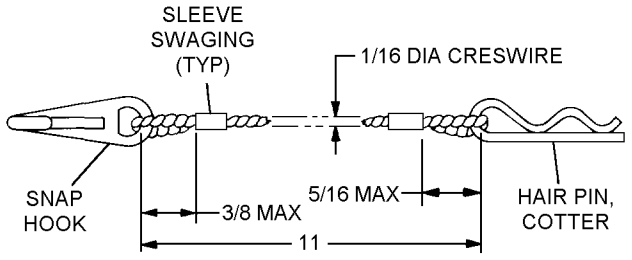
Step 1 - Para 7-88

7-89. ACTUATION LANYARD (AN/URT-33 RADIO BEACON). To fabricate actuation lanyard (P/N CL204C4-5), proceed as follows:

Materials Required

Quantity	Description	Reference Number
As Required	1/16 Cable Creswire	MIL-C-5424-1-16
1	Hairpin Cotter	LHCOTC (CAGE 96652)
2	Sleeve, Swaging	MS51844-1
1	Snaphook (Brass)	M43770-12A-MEIZI

1. Fabricate actuation lanyard from 1/16 Cable Creswire as shown.



63-463

Step 1 - Para 7-89

Section 7-8. Illustrated Parts Breakdown

7-90. GENERAL.

7-91. This section lists and illustrates the assemblies and detail parts of the RSSK-1/-1A Rigid Seat Survival Kit Assemblies as manufactured by Scott Aviation Corporation, Rocket Jet Corporation, and East/West Industries.

7-92. The Illustrated Parts Breakdown should be used during maintenance when requisitioning and identifying parts.

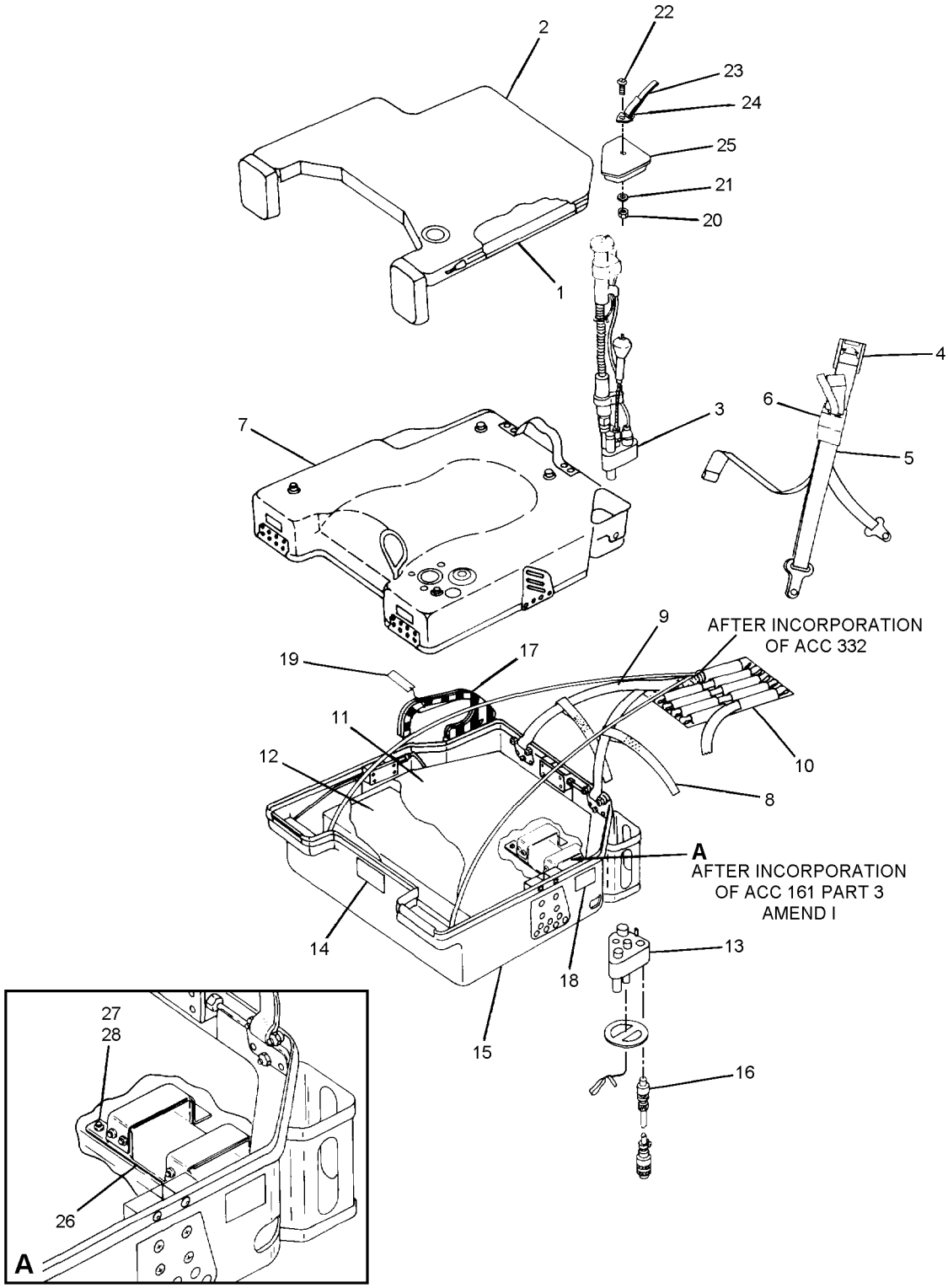


Figure 7-24. Rigid Seat Survival Kit-1A (Rocket Jet)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-24	741000	SURVIVAL KIT ASSEMBLY	Ref	A
	741000-1	SURVIVAL KIT ASSEMBLY	Ref	B
	741300	. CUSHION ASSEMBLY	1	
-1	741303	. . CUSHION AND FORMER	1	
-2	741304	. . COVER	1	
-3	242200-13	. BLOCK ASSEMBLY, Upper (See figure 7-27 for BKDN)	1	
-4	015-11365-1	. RELEASE ASSEMBLY, Lapbelt (99449) (Note 1)	2	
-5	67A73E6-11	. STRAP ASSEMBLY, Left hand	1	
	64A73E6-12	. STRAP ASSEMBLY, Right hand	1	
-6	1195AS114-1	. . ADJUSTER, Restraint harness (Note 3)	2	
	184C100-1	. . ADJUSTER, Restraint harness (30941) (Interchangeable with 1195AS114-1 in pairs only)	2	
-7	741200	. UPPER CONTAINER ASSEMBLY (See figure 7-26 for BKDN)	1	A
	741200-1	. UPPER CONTAINER ASSEMBLY (See figure 7-26 for BKDN)	1	B
-8	741131	. LANYARD, Equipment container	2	
-9	36H1323-31	. DROPLINE ASSEMBLY (80206)	1	
	741490	. DROPLINE ASSEMBLY (31441)	1	
-10	LOCAL MFG	. BOOT ASSEMBLY (See figure 7-23)	1	
-11	36D1321	. COVER, Raft (80206)	1	
	741600	. COVER, Raft (31441)	1	
-12	68A77D4-1	. CONTAINER, Equipment (80206)	1	
	741500	. CONTAINER, Equipment (31441)	1	
-13	242400-7	. BLOCK ASSEMBLY, Lower (See figure 7-28 for BKDN)	1	
-14	7099000	. NAMEPLATE	1	
-15	741100	. LOWER CONTAINER ASSEMBLY (See figure 7-25 for BKDN)	1	
-16	741240	. CABLE ASSEMBLY, Electrical	1	
-17	741216	. HANDLE ASSEMBLY (See figure 7-25 for BKDN)	1	
-18	99133	. DECAL	3	
-19	741128	. TAG, Warning	1	
	741220	. COVER ASSEMBLY, Dust	1	
-20	MS20365-832	. NUT	1	
-21	AN960C8L	. WASHER	1	
-22	AN525-832-8	. SCREW, Washer	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-24	741223	. STRAP, Dust Cover (Sewn)	1	
-23	COML	. . WEBBING (MIL-W-4088D), Sage Green, No. 531	AR	
-24	741222	. . BRACKET	1	
-25	741221	. COVER, Dust	1	
-26	CL204D2-1	. BRACKET ASSEMBLY, Radio (KF) beacon (Note 2) (ATTACHING PARTS)	1	
-27	MS20470A4-7	. RIVET (KF)	4	
-28	AN960PD-4	. WASHER (KF)	4	
		---*---		
	V66-1ACC-161	. PARTS KIT (F)	1	
	Notes: 1. When replacing lapbelt assembly, apply sealing, locking, and retaining compound, MIL-S-22473, to shoulder screws. 2. After incorporation of ACC 161, Part III, Amend. 1 3. After incorporation of ACC 472.			

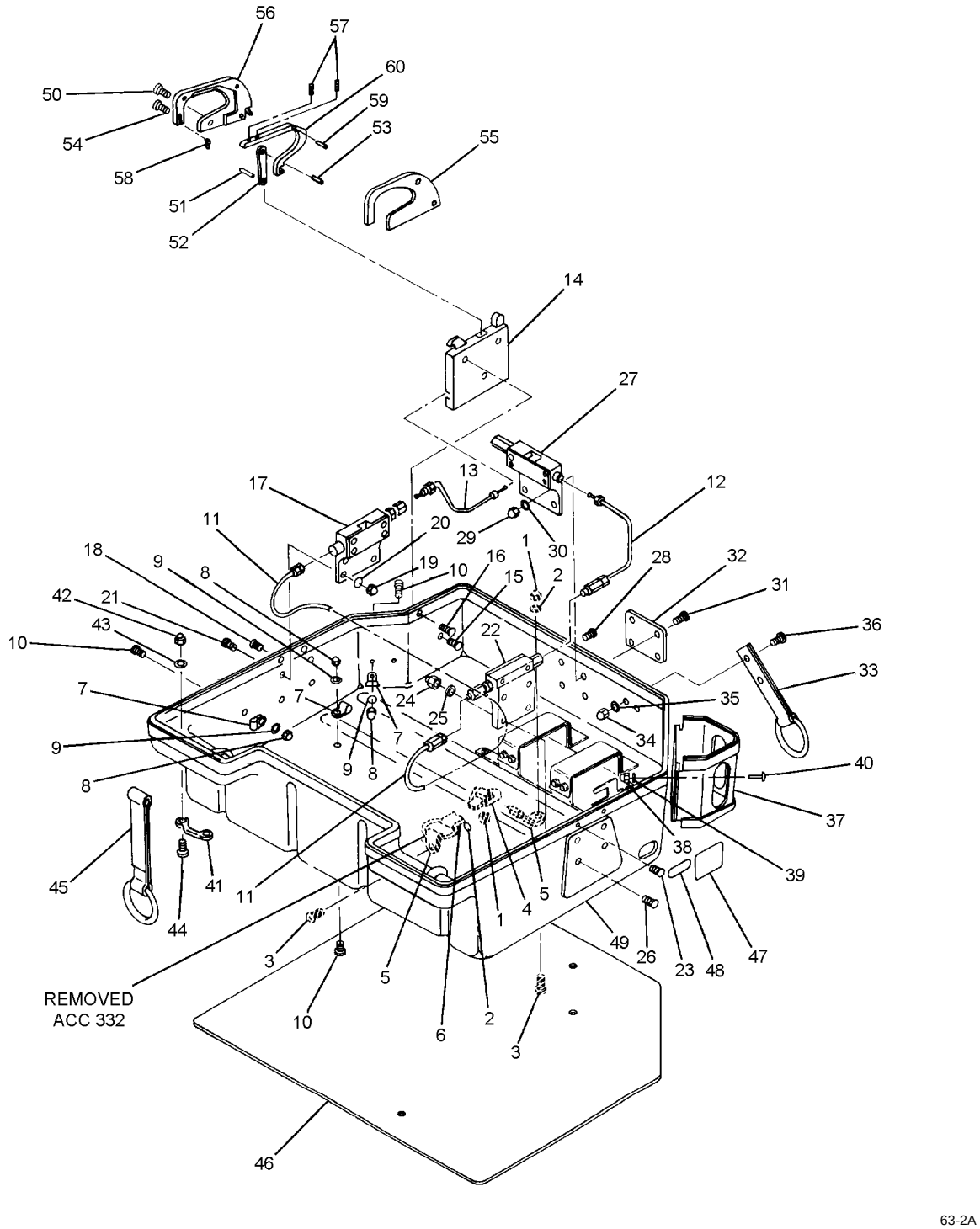


Figure 7-25. Lower Container Assembly and Handle Assembly (Rocket Jet)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-25	741100	LOWER CONTAINER ASSEMBLY ..... (See figure 7-24 for NHA)	REF	
	741130	. STRAP ASSEMBLY, Tie down (Note 1) ..... (ATTACHING PARTS)	2	
-1	22K2-62	. NUT (72962) (Note 1)	2	
-2	AN960C6L	. WASHER (Note 1)	2	
-3	COML	. SCREW, Button, socket head ..... (6-32NC-3A x 0.38 inch long) (Note 1) ---*---	2	
-4	10075	. . BUCKLE (00851)	1	
-5	1954-5/8	. . CLIP AND D-RING (76786)	2	
-6	MIL-T-8363	. . WEBBING (Type IV), Sage Green ..... Number 1511	AR	
-7	MS25281-R2	. CLAMP ..... (ATTACHING PARTS)	7	
-8	22K2-62	. NUT (72962)	7	
-9	AN960C6L	. WASHER	7	
-10	COML	. SCREW, Button, socket head ..... (6-32NC-3A x 0.50 inch long) ---*---	7	
-11	741112	. CABLE ASSEMBLY ..... (See figure 7-31 for BKDN)	1	
-12	741113	. CABLE ASSEMBLY ..... (See figure 7-31 for BKDN)	1	
-13	741114	. CABLE ASSEMBLY ..... (See figure 7-31 for BKDN)	1	
-14	365705	. RELEASE ASSEMBLY, Cable ..... (See figure 7-32 for BKDN) (ATTACHING PARTS)	1	
-15	COML	. SCREW, Button, socket head ..... (10-32NF-3A x 0.37 inch long)	1	
-16	COML	. SCREW, Button, socket head ..... (10-32NF-3A x 0.50 inch long) ---*---	2	
-17	741108	. LOCK ASSEMBLY, Lid, right hand ..... (See figure 7-33 for BKDN) (ATTACHING PARTS)	1	
-18	COML	. SCREW, Button, socket head ..... (10-32NF-3A x 0.50 inch long)	2	
-19	22K2-02	. NUT (72962)	4	
-20	AN960PD10L	. WASHER	4	
-21	AN510C10R8	. SCREW ..... ---*---	4	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-25-22	741109	. LOCK ASSEMBLY, Lid, left hand (See figure 7-33 for BKDN) (ATTACHING PARTS)	1	
-23	COML	. SCREW, Button, socket head (10-32NF-3A x 0.50 inch long)	2	
-24	22K2-02	. NUT (72962)	4	
-25	AN960PD10L	. WASHER	4	
-26	AN510C10R8	. SCREW ---*---	4	
-27	741110	. LOCK ASSEMBLY, Lid, aft (See figure 7-33 for BKDN) (ATTACHING PARTS)	1	
-28	COML	. SCREW, Button, socket head (10-32NF-3A x 0.50 inch long)	2	
-29	22K2-02	. NUT (72962)	4	
-30	AN960PD10L	. WASHER	4	
-31	AN510C10R8	. SCREW ---*---	4	
-32	741105	. REINFORCEMENT, Aft lid lock	1	
-33	634498	. STRAP ASSEMBLY, Rear (ATTACHING PARTS)	2	
-34	22K2-82	. NUT	1	
-35	AN960C8L	. WASHER	2	
-36	COML	. SCREW, Button, socket head (10-32NF-3A x 0.50 inch long) ---*---	1	
-37	741115	. GUIDE ASSEMBLY, Lower (ATTACHING PARTS)	1	
-38	22K2-82	. NUT (72962)	6	
-39	AN960C8L	. WASHER	6	
-40	COML	. SCREW, Button, socket head (8-32NC-3A x 0.50 inch long) ---*---	6	
-41	365700-1	. BRACKET (ATTACHING PARTS)	4	
-42	22K2-62	. NUT (72962)	2	
-43	AN960C6L	. WASHER	2	
-44	COML	. SCREW, Button, socket head (6-32NC-3A x 0.50 inch long) ---*---	2	
-45	634497	. STRAP ASSEMBLY, Forward	2	
-46	741121	. PAD, Skid	1	
-47	283472	. DECAL, Visual lock	3	
-48	99112	. DECAL, Manual lid unlock	3	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-25-49	741101	. CONTAINER	1	
	741216	HANDLE ASSEMBLY (Note 2)	1	
	7110015	HANDLE ASSEMBLY	1	
-50	RJS200-632-562	. SCREW, Hex socket, flat head (Apply sealing compound, grade E) (Note 3)	1	
	255455-5	. LINK ASSEMBLY	1	
-51	255464-1	. PIN (Apply Molykote No. X106)	1	
-52	255456	. LINK (Apply Molykote No. X106)	1	
-53	255418	. BUSHING	1	
-54	MS24667-9	. SCREW	4	
-55	255466-3	. HANDLE HALF, Left hand (Note 4)	1	
-56	255466-1	. HANDLE HALF, Right Hand (Note 5)	1	
-57	741209	. SPRING	2	
-58	741463	. PIN, Anchor	1	
	741217	. TRIGGER ASSEMBLY	1	
-59	99002-7	. . PIN	1	
-60	741218	. . TRIGGER	1	
	Notes: 1. Removed by ASC #332 2. Completely interchangeable with 7110015 3. Completely interchangeable with 7110016 4. Completely interchangeable with 7110017-1 5. Completely interchangeable with 7110017-2.			

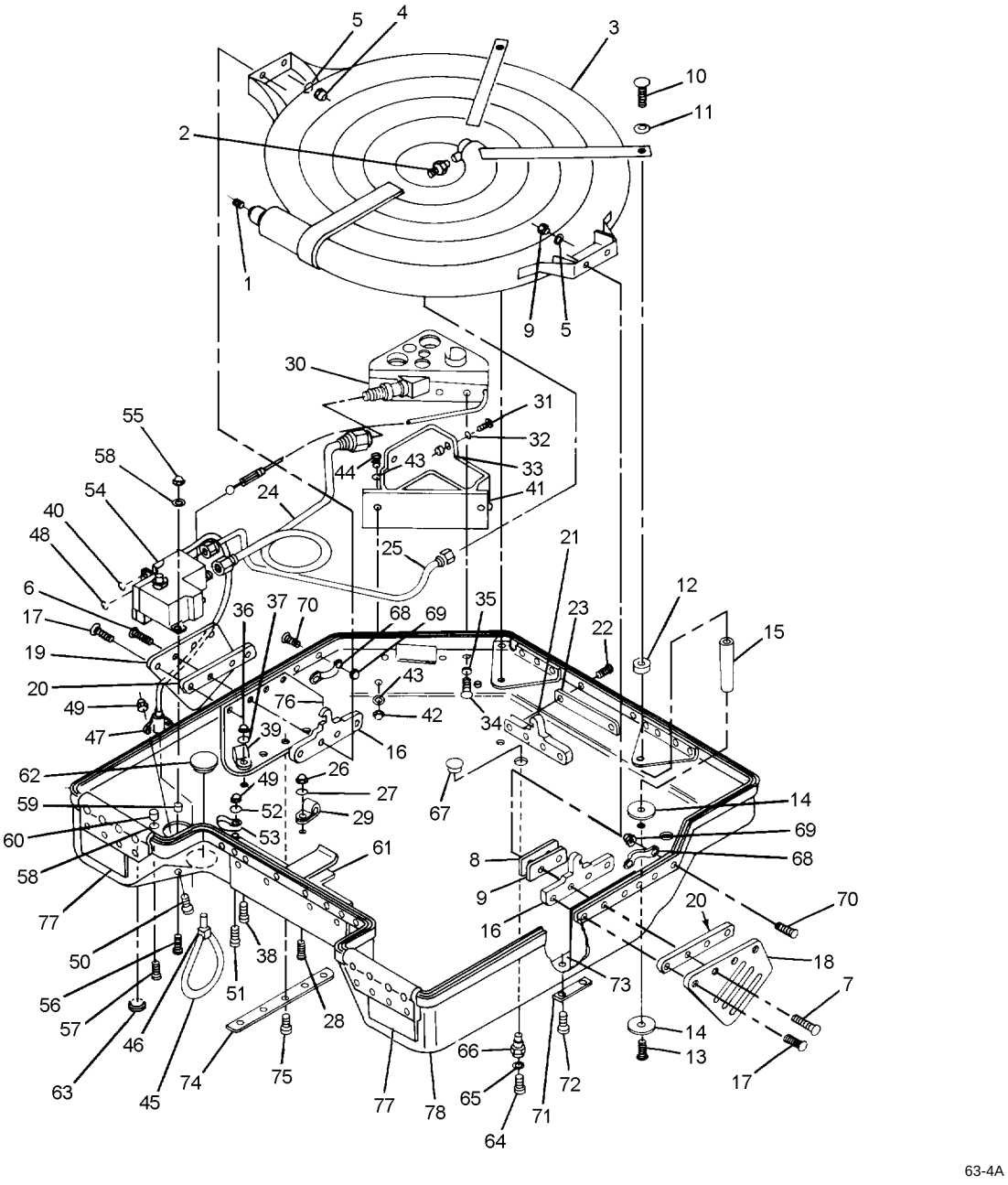


Figure 7-26. Upper Container Assembly (Rocket Jet)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-26	741200	UPPER CONTAINER ASSEMBLY ..... (See figure 7-24 for NHA)	REF	A
	741200-1	UPPER CONTAINER ASSEMBLY ..... (See figure 7-24 for NHA)	REF	B
-1	AN932-S2	. PLUG	1	
-2	AN816-3J	. NIPPLE	1	
-3	741250	. CYLINDER, Oxygen ..... (ATTACHING PARTS)	1	
-4	22K2-02	. NUT (72962)	4	
-5	AN960C10	. WASHER	4	
-6	MS51960-71	. SCREW	2	
-7	MS51960-70	. SCREW	2	
-8	741255-1	. SHIM	AR	
-9	741255-2	. SHIM	AR	
-10	COML	. SCREW, Button, socket head ..... (0.250-28UNF-2A x 0.50)	2	
-11	AN960C416L	. WASHER	AR	
-12	741239	. SPACER	2	
-13	COML	. SCREW, Button, socket head ..... (0.250-28UNF x 0.625)	2	
-14	AN970-4	. WASHER	4	
-15	741256	. SPACER ..... ---*---	2	
-16	741365	. HOOK, Lid lock	2	
-17	MS51960-68	. SCREW	4	
-18	255706	. PLATE, Right hand	1	
-19	255705	. PLATE, Left hand	1	
-20	23204	. SPACER	2	
-21	741365	. HOOK, Lid lock ..... (ATTACHING PARTS)	1	
-22	COML	. SCREW, Button, socket head ..... (10-32UNF-3A x 0.625) (Apply sealing compound, grade C)	2	
-23	741213	. PLATE ..... ---*---	1	
-24	741280	. TUBE ASSEMBLY	1	
-25	741270	. TUBE ASSEMBLY ..... (ATTACHING PARTS)	1	
-26	22K2-62	. NUT (72962)	1	
-27	AN960C6L	. WASHER	1	
-28	COML	. SCREW, Button, socket head ..... (6-32NC-3A x 0.50)	1	
-29	MS25281-R3	. CLAMP ..... ---*---	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-26-30	741290	. BLOCK ASSEMBLY, Intermediate ..... (See figure 7-29 for BKDN)	1	A
	741290-1	. BLOCK ASSEMBLY, Intermediate ..... (See figure 7-29 for BKDN) (ATTACHING PARTS)	1	B
-31	COML	. SCREW, Button, socket head ..... (8-32NC-3A x 0.375)	2	
-32	AN960C8L	. WASHER	2	
-33	255212-1	. SPACER	2	
-34	COML	. SCREW, Button, Socket Head ..... (10-32UNF-3A x 0.50)	3	
-35	AN960PD10L	. WASHER	3	
-36	22K2-62	. NUT (72962)	1	
-37	AN960C6L	. WASHER	1	
-38	COML	. SCREW, Button, socket head ..... (6-32NC-3A x 0.50)	1	
-39	MS25281-R2	. CLAMP	1	
-40	5144-18	. E-RING (79136) ..... ---*---	1	
-41	242137	. GUIDE, Upper ..... (ATTACHING PARTS)	1	
-42	22K2-82	. NUT (72962)	2	
-43	AN960C8L	. WASHER	4	
-44	COML	. SCREW, Button, socket head ..... (8-32NC-3A x 0.4375) ---*---	2	
	283190	. GRIP ASSEMBLY (Green ring)	1	
-45	365693	. . RING, Retaining	1	
-46	283191	. . TERMINAL ASSEMBLY	1	
-47	741265	. CABLE ASSEMBLY, Release ..... (ATTACHING PARTS)	1	
-48	5144-18	. E-RING (79136)	1	
-49	22K2-62	. NUT (72962)	3	
-50	COML	. SCREW, Button, socket head ..... (6-32NC-3A x 0.375)	2	
-51	COML	. SCREW, Button, socket head ..... (6-32NC-3A x 0.50)	1	
-52	AN960C6L	. WASHER	1	
-53	MS25281-R2	. CLAMP ..... ---*---	1	
-54	741370	. REDUCER/MANIFOLD ASSEMBLY ..... (See figure 7-30 for BKDN)	1	A

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-26	741370-1	. REDUCER/MANIFOLD ASSEMBLY (See figure 7-30 for BKDN) (ATTACHING PARTS)	1	B
-55	22K2-02	. Nut (72962)	2	
-56	COML	. SCREW, Button, socket head (10-32UNF-3A x 1.250)	2	
-57	COML	. SCREW, Button, socket head (10-32UNF-3A x 0.875)	1	
-58	AN960C10	. WASHER	3	
-59	741211-2	. SPACER	2	
-60	741211-1	. SPACER ---*---	1	
-61	741233	. PAD	1	
-62	308411	. WINDOW, Oxygen gage (Apply bonding agent R-313)	1	
-63	SS-48152	. PLUG	1	
-64	COML	. SCREW, Bind-head slot (3-56NF-2A x 0.3125)	4	
-65	AN960C3L	. WASHER	4	
-66	AN227-68	. STUD	4	
-67	AN227-61	. SNAP	4	
-68	365700-1	. BRACKET (ATTACHING PARTS)	2	
-69	22K2-62	. NUT (72962)	2	
-70	COML	. SCREW, Button, socket head (6-32NC-3A x 0.50) ---*---	2	
-71	741206	. REINFORCEMENT, Right hand (ATTACHING PARTS)	1	
-72	MS20426-AD4-6	. RIVET ---*---	2	
-73	741204	. BRACKET, Right hand	1	
-74	255206	. PLATE, Reinforcement (ATTACHING PARTS)	1	
-75	MS20426-AD4-6	. RIVET ---*---	5	
-76	741205	. BRACKET, Left hand	1	
-77	V660-2(80-200)	. TAPE, Number 80, pile (Apply Cement, EC-870)	AR	
-78	741201	. LID	1	

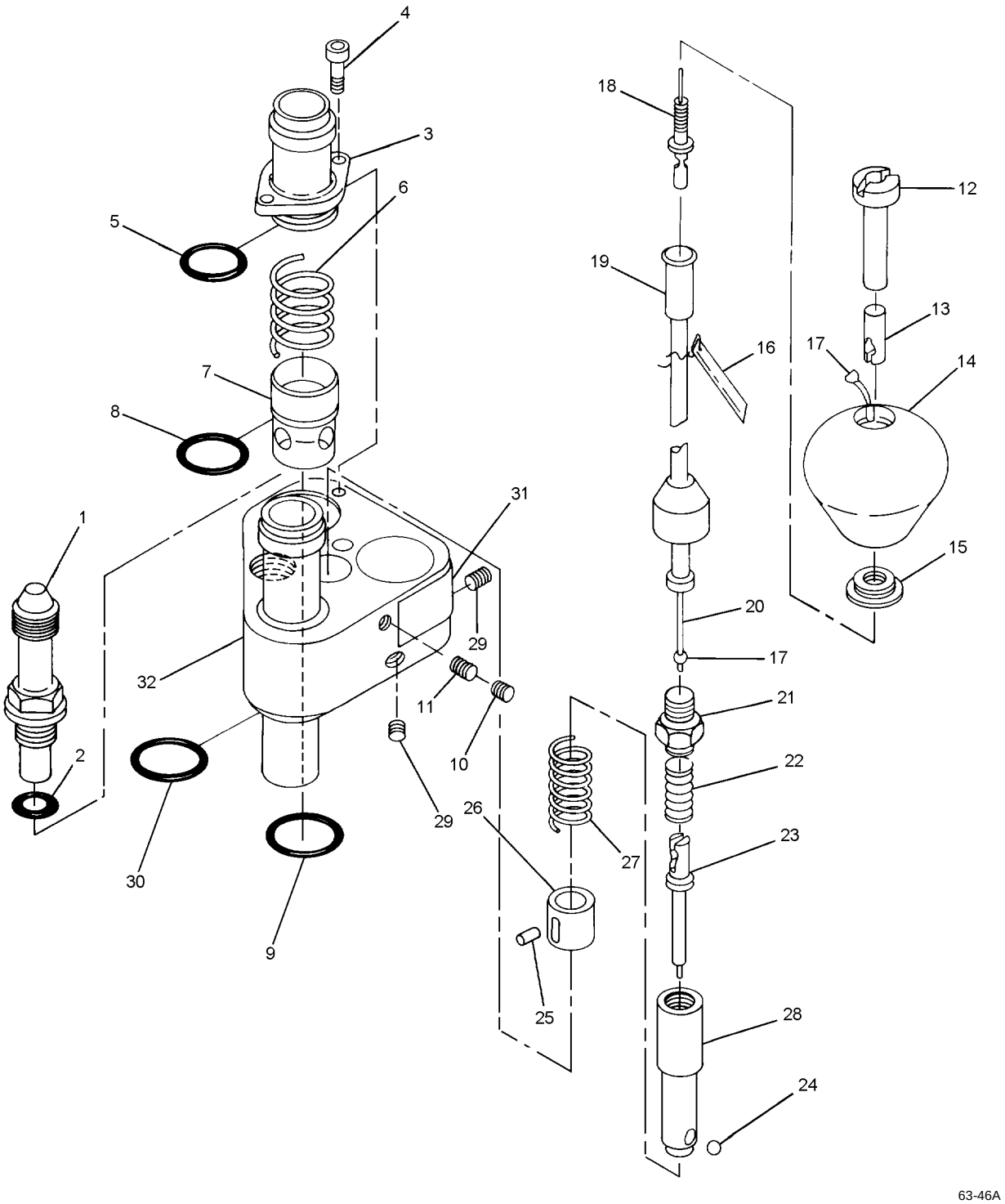
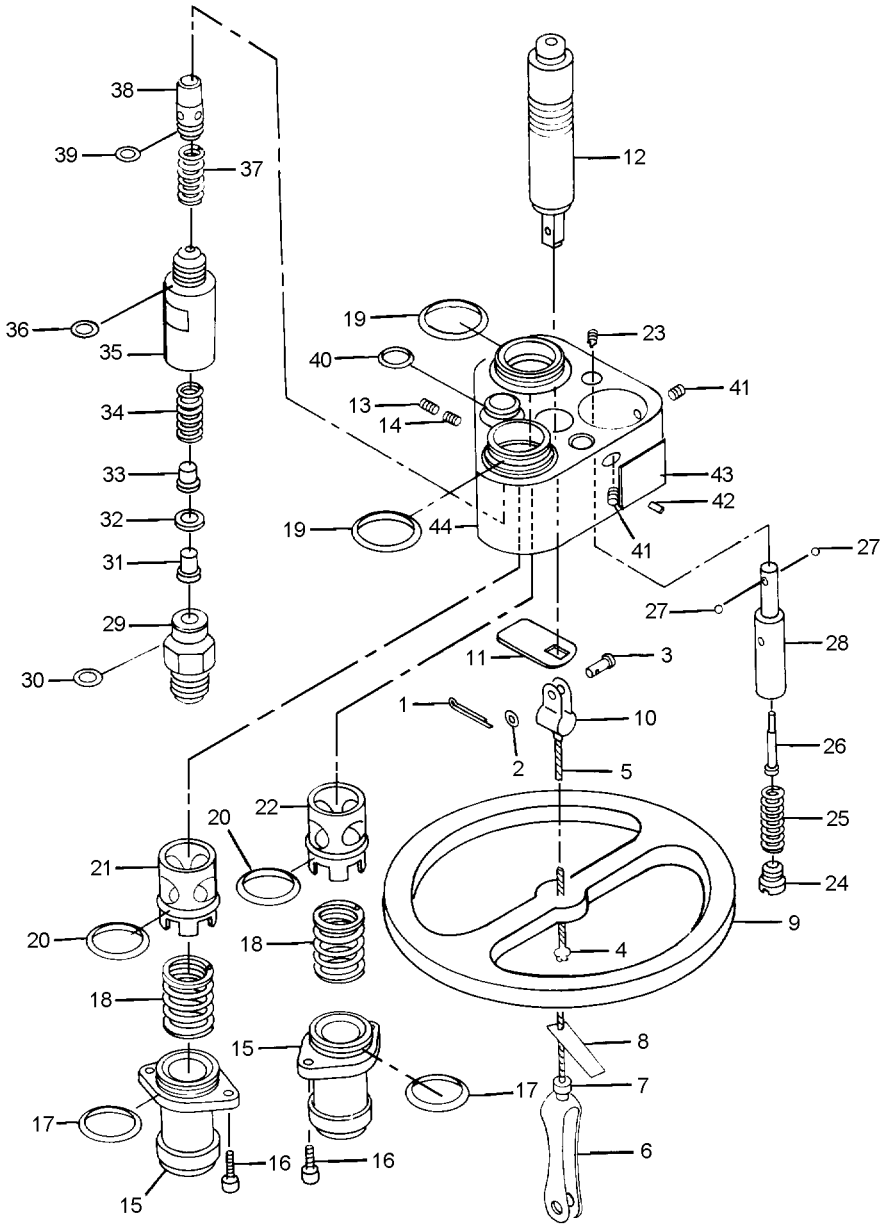


Figure 7-27. Upper Block Assembly (Rocket Jet)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-27	242200-13	BLOCK ASSEMBLY, Upper (Parts kit available) .... (See figure 7-24 for NHA)	REF	
-1	242107-1	. FITTING, Hose, oxygen	1	
-2	99136-53-3	. PACKING, Preformed	1	
-3	242106	. FITTING, Vent hose ..... (ATTACHING PARTS)	1	
-4	RJS100-400-312	. SCREW, Cap ..... (Apply sealing compound, grade E) ---*---	2	
-5	99136-15-4	. PACKING, Preformed	1	
-6	242112	. SPRING, Compression	1	
-7	242415-3	. VALVE, Check	1	
-8	99136-15-4	. PACKING, Preformed	1	
-9	99136-17-13	. PACKING, Preformed	1	
-10	MS51025-27	. SETSCREW	1	
-11	24484-1	. SETSCREW (Apply glyptal No. 1201)	1	
	729000	. LANYARD ASSEMBLY, Manual lock release indicator	1	
-12	729003	. . RETAINER ..... (Apply sealing compound, grade E)	1	
-13	729004	. . PLUNGER, Indicator	1	
-14	242149	. . KNOB ASSEMBLY	1	
-15	AN227-7	. . SOCKET	1	
	729005	. . CABLE AND HOUSING ASSEMBLY	1	
-16	242414	. . . TAG	1	
-17	99028	. . . BALL	2	
-18	242143-1	. . . SCREW, Hollow	1	
-19	20321-13	. . . DUCT ASSEMBLY ..... (Apply sealing compound, grade E)	1	
-20	RA6238	. . . CABLE (01976)	AR	
	24475-1	. PIN ASSEMBLY, Lock, manual release ..... (Note 1)	1	
	24475-3	. PIN ASSEMBLY, Lock, manual release ..... (Note 1)	1	
	24475-5	. PIN ASSEMBLY, Lock, manual release ..... (Note 1)	1	
	24475-7	. PIN ASSEMBLY, Lock, manual release ..... (Note 1)	1	
-21	242145	. . ADAPTER, Cable	1	
-22	242109	. . SPRING	1	
-23	242132-3	. . PLUNGER	1	
-24	99145-1	. . BALL, Grade 0 (0.140 dia)	3	
-25	MS171430	. . PIN, Spring	2	
-26	242423	. . SLEEVE	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-27-27	242424	. . SPRING	1	
-28	24476	. . HOUSING	1	
-29	AN565E8H3	. SETSCREW	2	
-30	99136-17-13	. PACKING, Preformed	1	
-31	242113	. PLATE, Identification	1	
-32	242202-7	. BLOCK, Upper, Brazed	1	
	741353	PARTS KIT, Upper block assembly (KC)	1	
	Notes: 1. Select one at assembly.			



63-7A

Figure 7-28. Lower Block Assembly (Rocket Jet)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-28	242400-7	BLOCK ASSEMBLY, Lower (Parts kit available) (See figure 7-17 for NHA)	REF	
	242430	. CABLE ASSEMBLY, Lock Pin (ATTACHING PARTS)	1	
-1	AN381-2-5	. PIN, Cotter	1	
-2	AN960C4L	. WASHER	1	
-3	AN392-9	. PIN ---*---	1	
-4	AN66C2	. . TERMINAL, Shank ball	3	
-5	RA6170-2	. . CABLE (0.62 dia 7 x 7) (93284)	1	
-6	RA-2500-3	. . CLEVIS, Eyelet (93284)	1	
-7	24410-10	. . SLEEVE	1	
-8	242414	. . TAG	1	
-9	741258	. . RING, Unlocking	1	
-10	217801	. . YOKE, Lanyard attachment	1	
-11	24471-1	. TAB, Indicator	1	
-12	24473-1	. PIN ASSEMBLY, Lock (Note 1)	1	
	24473-3	. PIN ASSEMBLY, Lock (Note 1)	1	
	24473-5	. PIN ASSEMBLY, Lock (Note 1)	1	
	24473-7	. PIN ASSEMBLY, Lock (Note 1) (ATTACHING PARTS)	1	
-13	MS51025-27	. SETSCREW	1	
-14	24484-1	. SETSCREW ---*---	1	
-15	242106	. FITTING, Vent Hose (ATTACHING PARTS)	2	
-16	MS35457-7	. SCREW (Apply sealing compound, grade C) ---*---	4	
-17	99136-15-5	. PACKING, Preformed	2	
-18	242112	. SPRING, Compression	2	
-19	99136-17-13	. PACKING, Preformed	2	
-20	99136-15-5	. PACKING, Preformed	2	
-21	242407	. VALVE, Check	1	
-22	242415-3	. VALVE, Check	1	
	242410-3	. PIN ASSEMBLY, Lock, emergency oxygen (ATTACHING PARTS)	1	
-23	MS51041-29	. SETSCREW (Apply sealing compound, grade C) ---*---	1	
-24	242416	. . RETAINER, Spring	1	
-25	242412	. . SPRING	1	
-26	242413-3	. . PLUNGER	1	
-27	216C1-6	. . BALL	2	
-28	242411	. . HOUSING	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-28	242450	. VALVE ASSEMBLY, Check, oxygen	1	
-29	242449	. . FITTING	1	
-30	3-4	. . PACKING, Preformed (45681)	1	
-31	242445	. . POPPET	1	
-32	242443	. . WASHER	1	
-33	242442	. . SLEEVE	1	
-34	242451	. . SPRING	1	
-35	242448	. . BODY	1	
-36	99136-53-6	. PACKING, Preformed	1	
-37	242406	. SPRING	1	
-38	242405	. VALVE, Check	1	
-39	99136-10-5	. PACKING, Preformed	1	
-40	99136-12-13	. PACKING, Preformed	1	
-41	AN565E8-H3	. SETSCREW	2	
-42	MS171436	. PIN, Roll	1	
-43	242114	. PLATE, Identification	1	
-44	242402-5	. BLOCK ASSEMBLY, Lower, Brazed	1	
	741354	PARTS KIT, Lower block assembly (KC)	1	
	Notes: 1. Select one at assembly.			

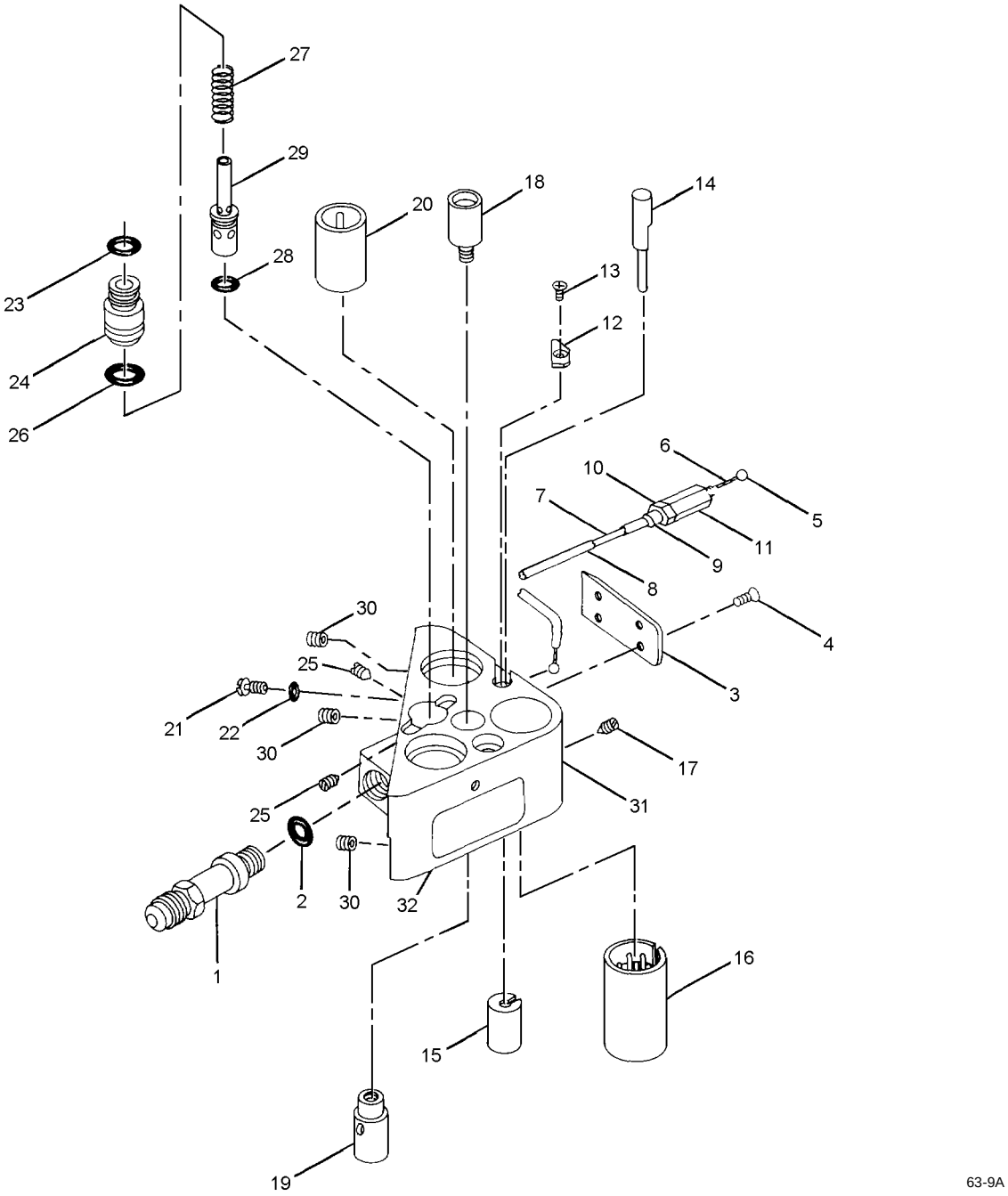


Figure 7-29. Intermediate Block Assembly (Rocket Jet)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-29	741290	BLOCK ASSEMBLY, Intermediate ..... (Parts kit available) (See figure 7-26 for NHA) (Use only with reducer assembly 741370. See figure 7-30)	REF	A
	741290-1	BLOCK ASSEMBLY, Intermediate ..... (See figure 7-26 for NHA) (Use only with reducer assembly 741370-1. See figure 7-30)	REF	B
-1	242336	. CONNECTOR, Oxygen inlet	1	
-2	99136-53-3	. PACKING, Preformed	1	
-3	242323	. COVER, Conduit ..... (ATTACHING PARTS)	1	
-4	MS35200-3	. SCREW ..... ---*---	4	
	741275	. CABLE ASSEMBLY ..... (Use only with reducer assembly 741370. See figure 7-31)	1	A
	741275-1	. CABLE ASSEMBLY ..... (Use only with reducer assembly 741370-1. See figure 7-31)	1	B
-5	RAL2487-041-125	. . BALL (93284)	2	
-6	RA6170	. . CABLE (0.0410 dia by 7) (93284)	AR	
-7	AMS3655-15	. . SLEEVE, Teflon (93284)	AR	
-8	741275-3	. . CONDUIT	1	
-9	741325	. . NIPPLE, Cable adjusting	1	
-10	C5942-2	. . NUT, Hex head (70318)	1	
-11	741326	. . TERMINAL, Conduit adjusting	1	
-12	242321	. RETAINER ..... (ATTACHING PARTS)	1	
-13	MS35190-210	. SCREW (Apply sealing compound, grade E) ..... ---*---	1	
-14	242320	. PIN, Ball locking	1	
-15	242322-3	. SLEEVE	1	
-16	242380	. RECEPTACLE, Electrical ..... (ATTACHING PARTS)	1	
-17	AN565E8H3	. SCREW ..... ---*---	1	
-18	24485-1	. INSERT, Male ..... (Apply sealing compound, grade D)	1	
-19	24486-1	. INSERT, Female	1	
-20	242302	. SLEEVE, Interlocking ..... (ATTACHING PARTS)	1	
-21	242306	. SCREW, Sleeve retaining ..... ---*---	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-29-22	99136-4-6	. PACKING, Preformed	1	
-23	99136-12-13	. PACKING, Preformed	1	
-24	242305	. PLUG, Interface (ATTACHING PARTS)	1	
-25	MS51034-19	. SCREW ---*---	2	
-26	99136-13-4	. PACKING, Preformed	1	
-27	242304	. SPRING	1	
-28	99136-10-4	. PACKING, Preformed	1	
-29	242303	. VALVE, Check, Oxygen	1	
-30	3591-3CN x 0.285	. INSERT, Heli-coil (26344)	3	
-31	242301-7	. HOUSING, Intermediate	1	
-32	741129	. NAMEPLATE	1	A
	74110003	. NAMEPLATE	1	B
	1741355	PARTS KIT, Intermediate block assembly (KC)	1	

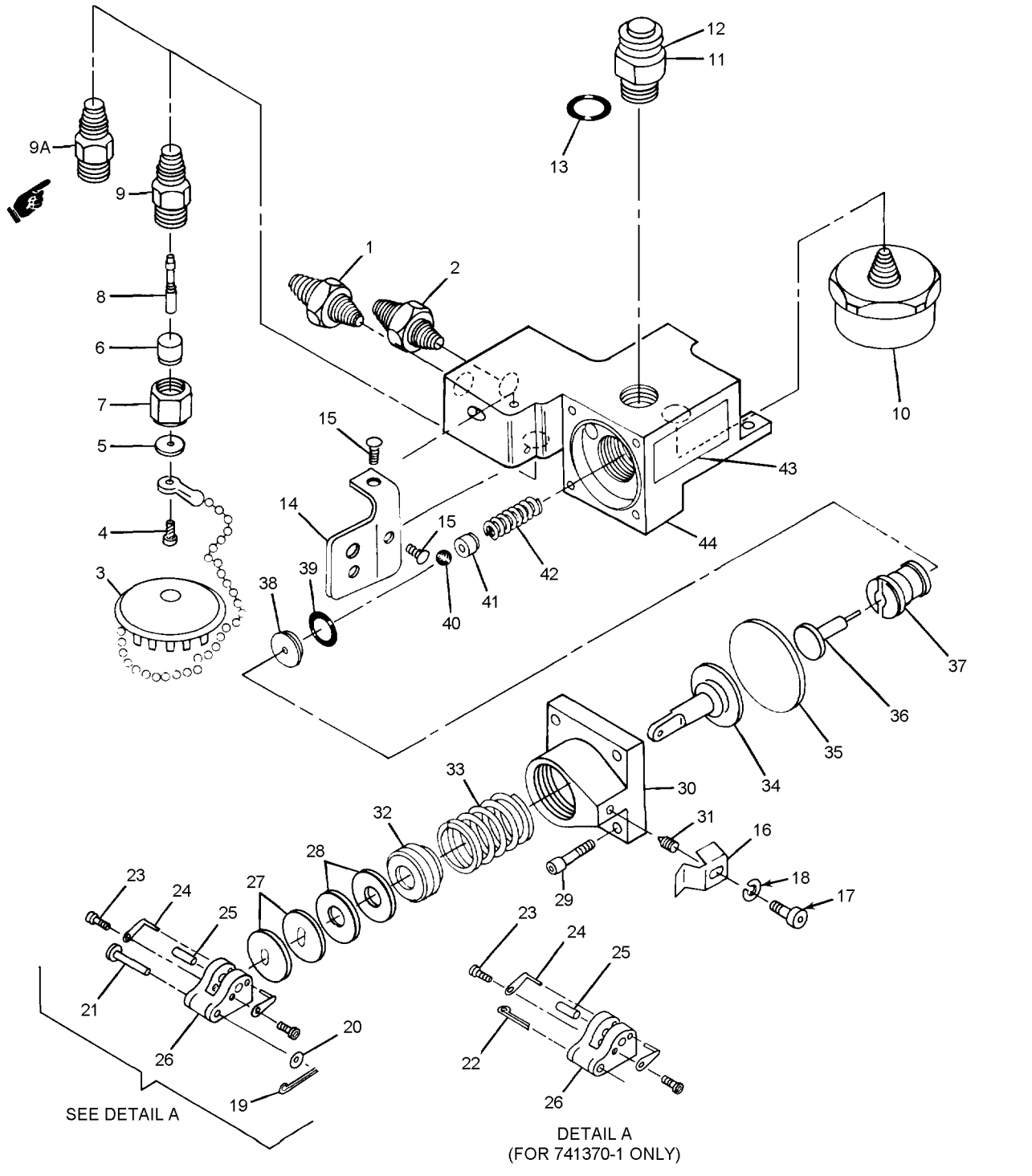
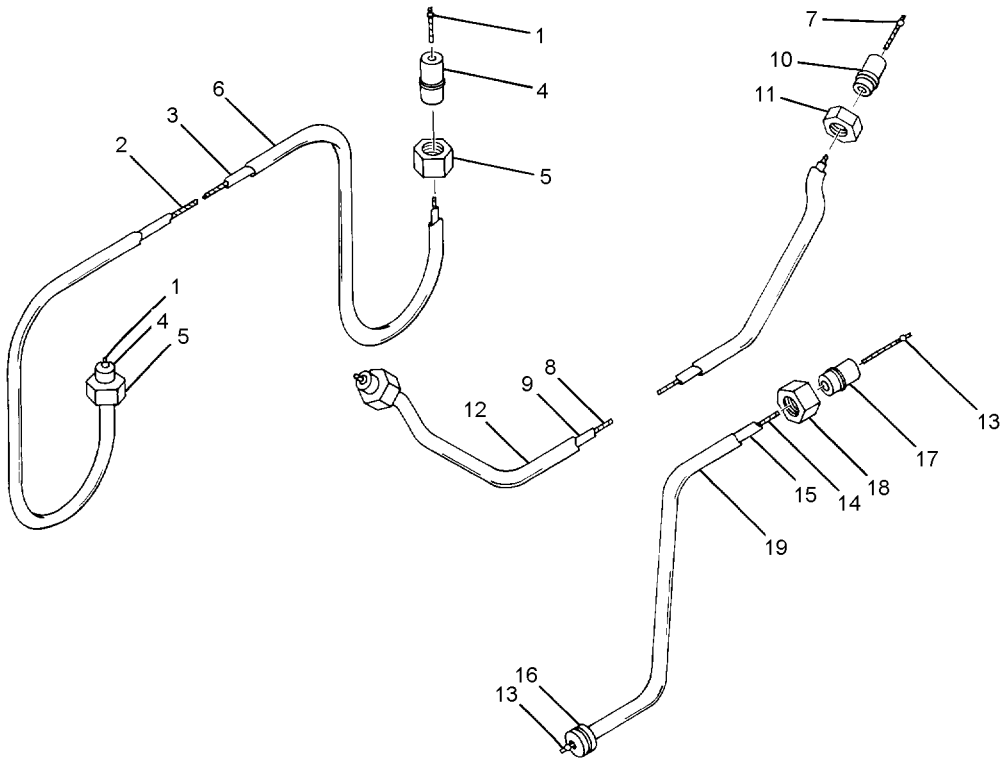


Figure 7-30. Reducer/Manifold Assembly (Rocket Jet)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-30	741370	REDUCER ASSEMBLY (Parts kit available) ..... (See figure 7-26 for NHA) (Note 1)	REF	A
	741370-1	REDUCER ASSEMBLY (Parts kit available) ..... (See figure 7-26 for NHA) (Note 2)	REF	B
-1	AN816-3D	. NIPPLE, Inlet		1
-2	723118	. NIPPLE, Outlet	1	
	741800	. VALVE ASSEMBLY, Filler ..... (Torque to 75 in-lbs)	1	
-3	365695	. . PLUG ASSEMBLY	1	
-4	AN515C4-4	. . . SCREW	1	
-5	AN960C4L	. . . WASHER	1	
-6	767862	. . . PLUG	1	
-7	767861	. . . CAP	1	
-8	AN809-1	. . CORE, Short stem ..... (Torque 4 to 5 in-lbs) (Note 3)	1	
-9	741811	. . BODY	1	
-9A	9120097-27	. FILL VALVE (Note 4)	1	
-10	TYPE L-2	. GAGE (20846)	1	
-11	283683	. VALVE ASSEMBLY, Relief	1	
-12	283688	. . DECAL	1	
-13	99136-53-11	. PACKING ..... (Use until exhausted then use 99136-53-15)	1	A
	99136-53-15	. PACKING (Replaces 99136-53-11)	1	B
-14	741373	. BRACKET ASSEMBLY, Cable ..... (ATTACHING PARTS)	1	
-15	COML	. CAPSCREW, Button head ..... (6-32NC-3A x 0.31 inch long) ---*---	2	
-16	741375	. BRACKET, Cam stop ..... (ATTACHING PARTS)	1	
-17	MS16995-16	. SCREW, Socket head	1	
-18	MS35333-71	. WASHER, Lock	1	
-19	MS24665-148	. PIN COTTER	1	A
-20	767105	. WASHER	1	A
-21	MS20392-1C17	. PIN	1	A
-22	MS24665-153	. PIN, Cotter	1	B
-23	COML	. SCREW, Button head ..... (2-56NC-2A x 0.12 inch long) (Apply loctite sealant, grade A, or equivalent)	2	
-24	767103	. SPRING ASSEMBLY, Detent	2	
-25	767900	. PIN	1	
-26	767100-1	. TOGGLE ARM	1	A
	767100-2	. TOGGLE ARM	1	B
-27	767901-11	. SPACER	AR	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-30-28	767901-1, 2,3,4,5,6	. SPACER	AR	
-29	MS24677-8	. CAPSCREW, Socket head (Lockwire 0.032)	4	
-30	767400	. FLANGE	1	
-31	CS-10	. SETSCREW, Socket head (12132)	1	
-32	723112	. RETAINER	1	
-33	741374	. SPRING	1	
-34	767902-1	. PISTON	1	A
	767902-2	. PISTON	1	B
-35	723109	. DIAPHRAGM (Use until exhausted then use 723134)	1	
	723134	. DIAPHRAGM (Replaces 723109)	1	
-36	723106	. PLUNGER	1	
-37	723107	. RETAINER	1	
-38	723104	. SEAT	1	
-39	99136-12-11	. PACKING (Use until exhausted, then use 99136-12-15)	1	A
	99136-12-15	. PACKING (Replaces 99136-12-11)	1	B
-40	MS134352	. BALL	1	
-41	723103	. RETAINER	1	
-42	C240-026-0620S	. SPRING (92830)	1	
-43	99050-2	. NAMEPLATE	1	
-44	741371	. HOUSING	1	
	741356	PARTS KIT, Reducer assembly (KC)	1	

Notes:
1. Use with intermediate block assembly P/N 741290 and cable assembly P/N 741275 only (figure 7-29).
2. Use with intermediate block assembly P/N 741290-1 and cable assembly P/N 741275-1 only (figure 7-29).
3. Use valve core tool P/N 2688 (27783) (NIIN 00-541-4687) for removal of valve core.
4. Fill Valve can be used as an alternate to replace Valve Core P/N AN809-1 and Body P/N 741811.



63-481

Figure 7-31. Left-Hand, Center and Right-Hand Cable Assemblies (Rocket Jet)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-31	741112	. CABLE ASSEMBLY, LH, lid lock to RH lid lock (See figure 7-25 for NHA)	REF	
-1	RAL2487-041--0.125	. BALL, Terminal (93284)	2	
-2	RA6170	. CABLE, Wire, CRES (0.041 dia x 7 x 7) (93284)	AR	
-3	AMS3655-15	. SLEEVING, Teflon (AWG No. 15 x 0.12 wall) (93284)	AR	
-4	214001	. COUPLING, Conduit	2	
-5	142002	. NUT, Coupling	2	
-6	741112-1	. CONDUIT	1	
	741113	CABLE ASSEMBLY, LH, lid lock to aft lock (See figure 7-25 for NHA)	REF	
-7	RAL2487-041-0.125	. BALL, Terminal (93284)	2	
-8	RA6170	. CABLE, Wire, CRES (0.041 dia x 7 x 7) (93284)	AR	
-9	AMS3655-15	. SLEEVING, Teflon (AWG No. 15 x 0.12 wall) (93284)	AR	
-10	214001	. COUPLING, Conduit	2	
-11	142002	. NUT, Coupling	2	
-12	741113-1	. CONDUIT	1	
	741114	CABLE ASSEMBLY, Actuator to RH lid lock (See figure 7-26 for NHA)	REF	
-13	RAL2487-041-0.125	. BALL, Terminal (93284)	2	
-14	RA6170	. CABLE, Wire, CRES (0.041 dia x 7 x 7) (93284)	AR	
-15	AMS2655-15	. SLEEVING, Teflon (AWG No. 15 x 0.12 wall) (93284)	AR	
-16	214006	. COUPLING, Conduit	1	
-17	214001	. COUPLING, Conduit	1	
-18	142002	. NUT, Coupling	1	
-19	741114-1	. CONDUIT	1	

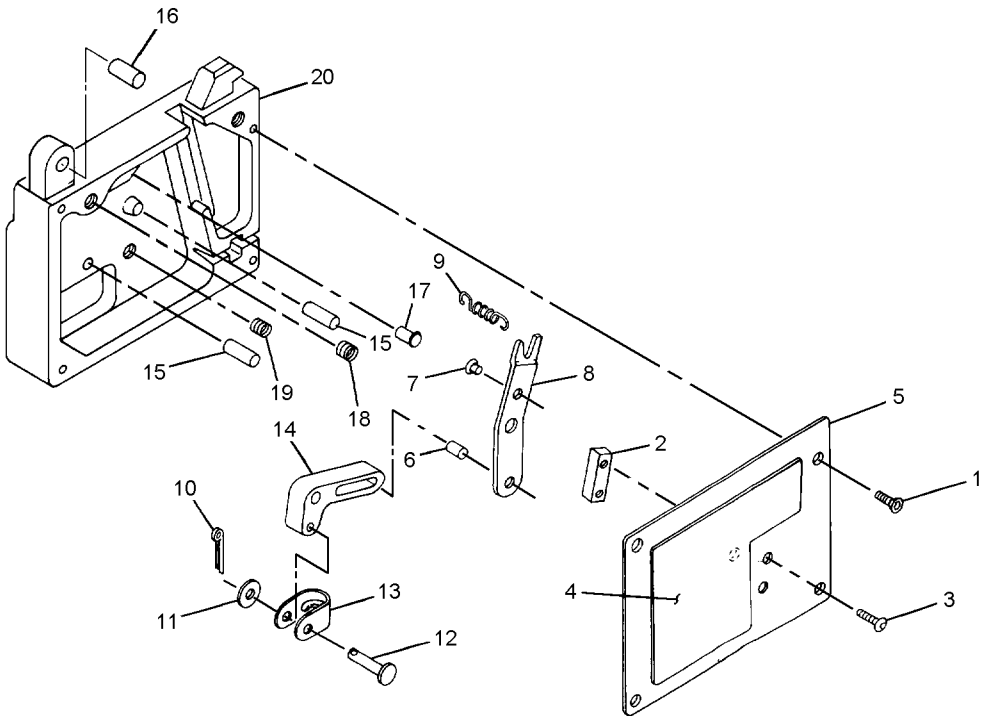


Figure 7-32. Cable Release Assembly (Rocket Jet)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-32	365705	RELEASE ASSEMBLY, Cable ..... (See figure 7-25 for NHA)	REF	
	365736	. COVER ASSEMBLY	1	
-1	COML	. SCREW, Cap, hex, soc, fl-hd ..... (440NC-2 x 0.25 in. lg) (AP)	4	
-2	365735	. . LUG, Lever stop	1	
-3	COML	. . SCREW, Button, soc-hd ..... (4-40NC-3A x 0.375 in. lg) (AP)	2	
-4	365734	. . DECAL, Release cover	1	
-5	365709	. . COVER, Release cable	1	
	365712	. LEVER ASSEMBLY, Actuating	1	
-6	99002-10	. . PIN (Press fit)	1	
-7	MS20613-4C4	. . RIVET (Press fit)	1	
-8	365706	. . LEVER	1	
-9	365714	. SPRING	1	
	365713	. LINK ASSEMBLY, Release	1	
-10	MS24665-151	. . PIN, Cotter	1	
-11	AN960C4L	. . WASHER	1	
-12	AN121603	. . PIN, Fl-hd	1	
-13	365707	. . LINK, Connecting	1	
-14	365708	. . LINK, Intermediate	1	
	365733	. HOUSING ASSEMBLY	1	
-15	99007-4	. . PIN (Press fit)	2	
-16	99004-1	. . PIN (Press fit)	1	
-17	MS20613-4C4	. . RIVET (Press fit)	1	
-18	3591-3CN X 0380	. . INSERT (26344)	2	
-19	3591-3CN X 1090	. . INSERT (26344)	1	
-20	365704	. . HOUSING, Machined	1	

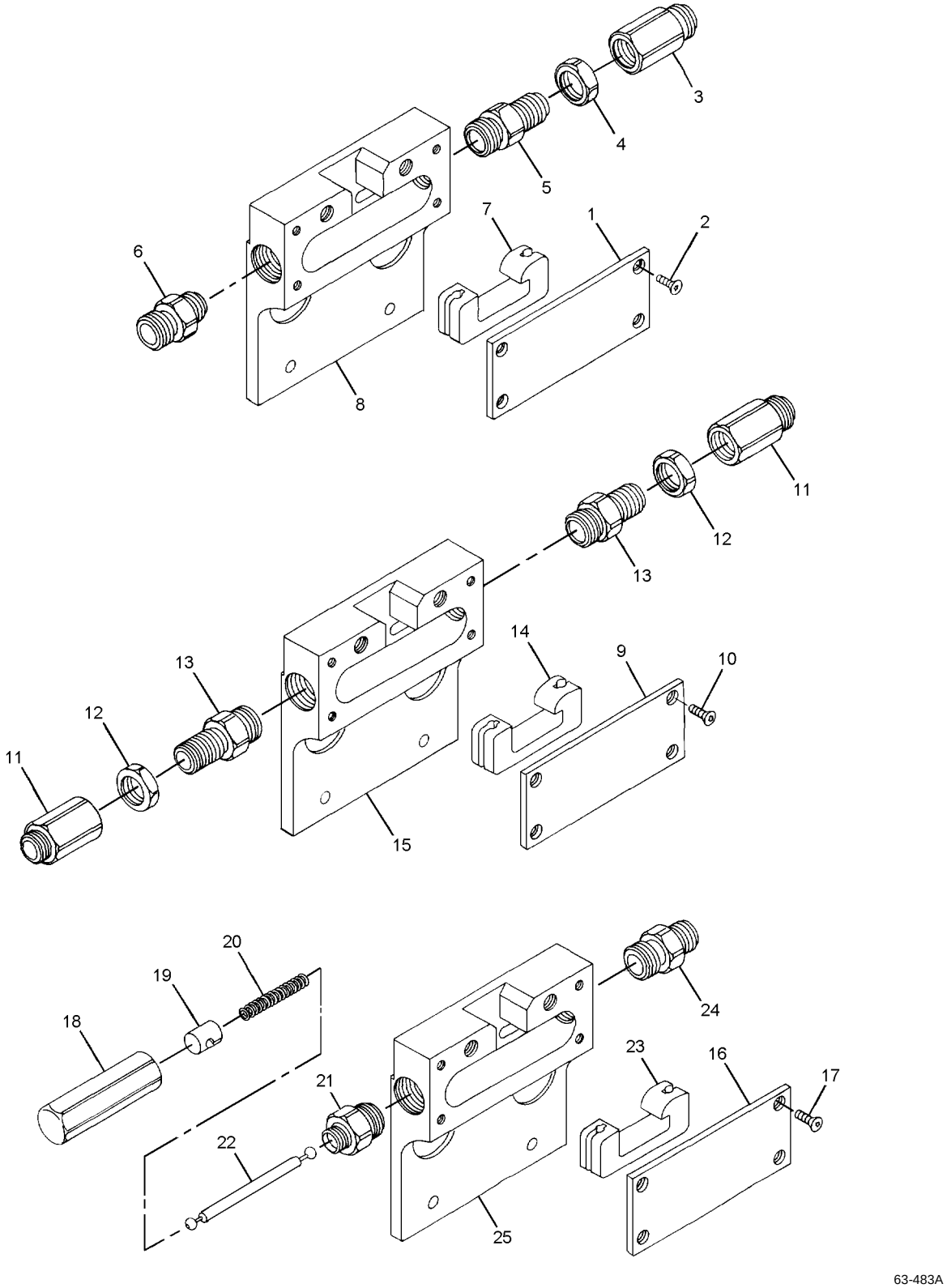
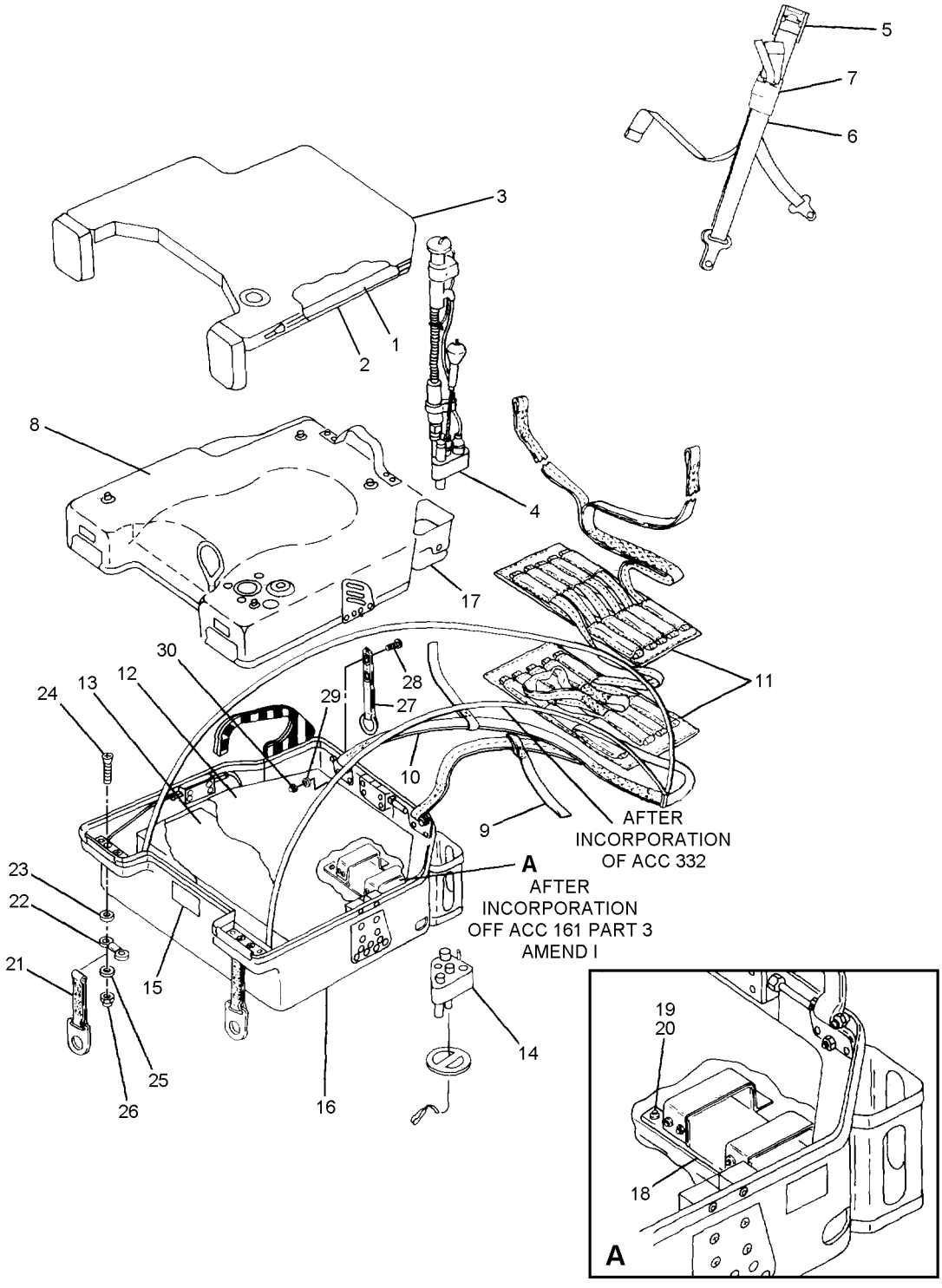


Figure 7-33. Lid Lock Assemblies (Rocket Jet)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-33	741108	LOCK ASSEMBLY, Lid, RH ..... (See figure 7-25 for NHA)	REF	
-1	741364	. PLATE, Cover	1	
-2	99071	. SCREW, Hex, soc, fl-hd (02615) (AP)	4	
-3	142006-2	. NUT, Adjusting, cable assembly	1	
-4	142012	. NUT, Lock, cable adjusting	1	
-5	142001-7	. NIPPLE, Cable assembly	1	
-6	142001-1	. NIPPLE	1	
-7	741363	. SLIDE, Lid lock	1	
-8	741361-1	. HOUSING	1	
	741109	LOCK ASSEMBLY, Lid, LH ..... (See figure 7-25 for NHA)	REF	
-9	741364	. PLATE, Cover	1	
-10	99071	. SCREW, Hex, soc, fl-hd (02615) (AP)	4	
-11	142006-2	. NUT, Adjusting, cable assembly	2	
-12	142012	. NUT, Lock cable adjusting	2	
-13	142001-7	. NIPPLE, Cable assembly	2	
-14	741363	. SLIDE, Lid lock	1	
-15	741361-1	. HOUSING	1	
	741110	LOCK ASSEMBLY, Lid, aft ..... (See figure 7-25 for NHA)	REF	
-16	741364	. PLATE, Cover	1	
-17	99071	. SCREW, Hex, soc, fl-hd (02615) (AP)	4	
-18	299304	. GUIDE, Piston	1	
-19	299305	. PISTON	1	
-20	119016	. SPRING	1	
-21	799303	. NIPPLE	1	
-22	299306	. CABLE ASSEMBLY	1	
-23	741363	. SLIDE, Lid lock	1	
-24	142001-1	. NIPPLE, Cable assembly	1	
-25	741361-1	. HOUSING, Lid lock	1	

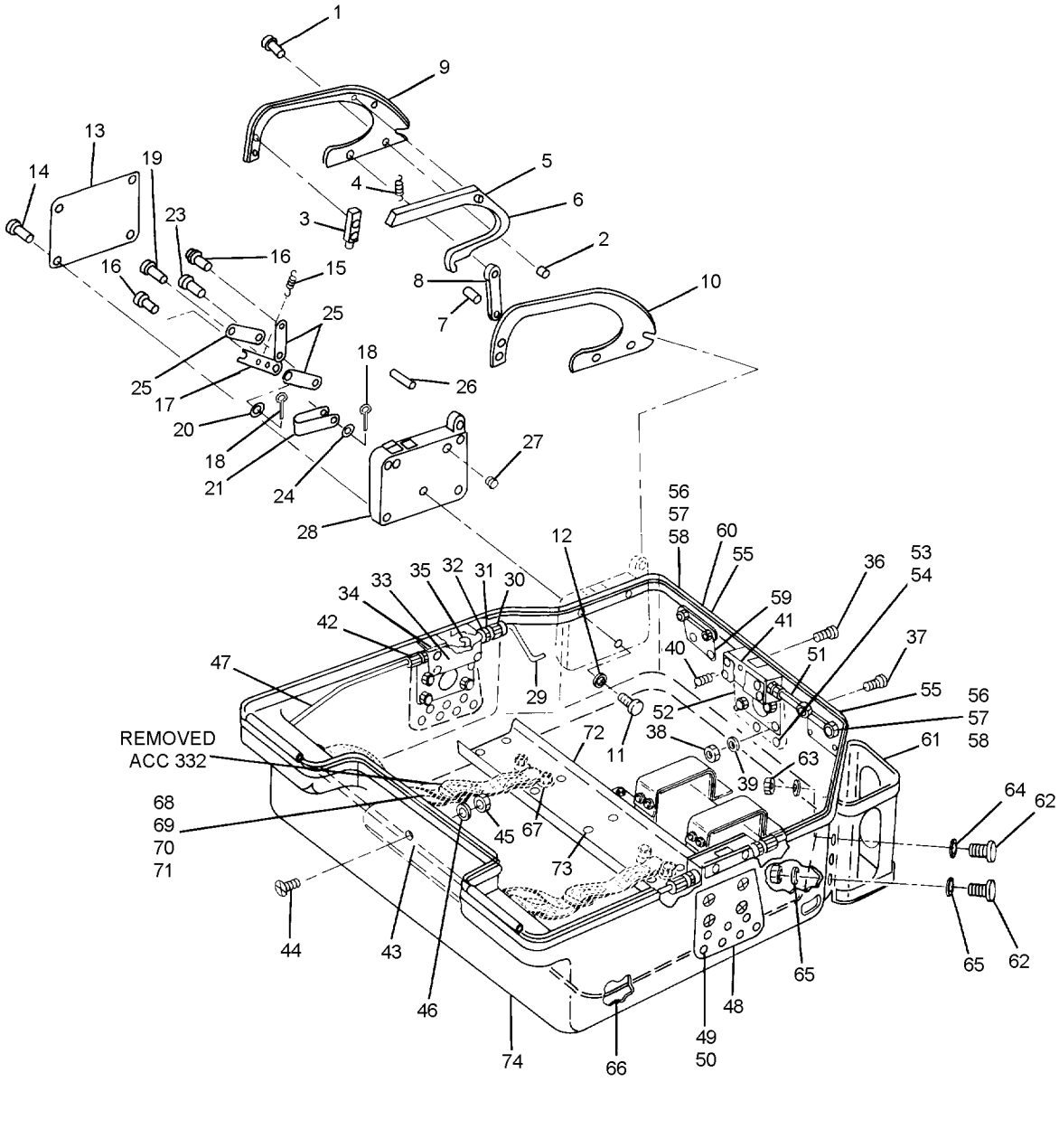


63-52A

Figure 7-34. Rigid Seat Survival Kit -1A (Scott)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-34	21000-11	SURVIVAL KIT ASSEMBLY	REF	
	28758	. CUSHION ASSEMBLY	1	
-1	10000458	. . CUSHION	1	
-2	10000457	. . FORMER	1	
-3	800239-00	. . COVER	1	
-4	21133-7	. BLOCK ASSEMBLY, Upper (See figure 7-37 for BKDN)	1	
	183D100-1	. BLOCK ASSEMBLY, Upper (30941) (See figure 7-37 for BKDN) (Interchangeable with 21133-7)	1	
-5	015-11365-1	. RELEASE ASSEMBLY, Lapbelt (99449) (Note 1)	2	
-6	67A73E6-11	. STRAP ASSEMBLY, Left hand	1	
	64A73E6-12	. STRAP ASSEMBLY, Right hand	1	
-7	1195AS114-1	. . ADJUSTER, Restraint harness (After ACC 472)	2	
	184C100-1	. . ADJUSTER, Restraint harness (30941) (Interchangeable with 1195AS114-1 in pairs only)	2	
-8	800236-00	. UPPER CONTAINER ASSEMBLY (See figure 7-36 for BKDN)	1	
-9	800500-00	. LANYARD, Equipment container	2	
-10	36H1323-31	. LANYARD ASSEMBLY (80206)	1	
	4178-01	. LANYARD ASSEMBLY (92114)	1	
-11	LOCAL MFR	. BOOT ASSEMBLY (figure 7-23)	2	
-12	36D1321	. COVER, Raft (80206)	1	
	800246-00	. COVER, Raft (92114)	1	
-13	68A77D4-1	. CONTAINER, Equipment (80206)	1	
	800247-00	. CONTAINER, Equipment (92114)	1	
-14	21007-5	. BLOCK ASSEMBLY, Lower (See figure 7-38 for BKDN)	1	
	183D200-1	. BLOCK ASSEMBLY, Lower (30941) (See figure 7-38 for BKDN) (Interchangeable with 21007-5)	1	
-15	10000545	. NAMEPLATE	1	
-16	21466-5	. LOWER CONTAINER ASSEMBLY (See figure 7-35 for BKDN)	1	
-17	21006-9	. BLOCK ASSEMBLY, Intermediate (See figure 7-39 for BKDN)	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-34-18	CL204D2-1	. BRACKET ASSEMBLY, Radio beacon (KF) ..... (Note 2)	1	
		(ATTACHING PARTS)		
-19	MS20470A4-7	. RIVET (KF)	4	
-20	AN960PD-4	. WASHER (KF)	4	
		---*---		
-21	67A73D7-3	. STRAP, Forward retaining (80206)	2	
	58867-01	. STRAP, Forward retaining (92114)	2	
		(ATTACHING PARTS)		
-22	55457	. FOOTMAN BRACKET	2	
-23	55422	. SPACER, Footman bracket	4	
-24	MS24693-S30	. SCREW	4	
-25	AN960-6L	. WASHER	4	
-26	19474	. NUT	4	
		---*---		
-27	67A73D7-4	. STRAP, Rear retaining (80206)	2	
	58867-02	. STRAP, Rear retaining (92114)	2	
		(ATTACHING PARTS)		
-28	AN525-832R8	. SCREW	2	
-29	AN960-8L	. WASHER	2	
-30	56123	. NUT	2	
		---*---		
	V66-1ACC-161	. PARTS KIT (F)	1	
	Notes: 1. When replacing lapbelt assembly, apply sealing, locking, and retaining compound, MIL-S-22473, to shoulder screws. 2. After incorporation of ACC 161, Part III, Amend. 1.			



63-3A

Figure 7-35. Lower Container Assembly (Scott)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-35	21466-5	CONTAINER ASSEMBLY, Lower (See figure 7-34 for NHA)	REF	
	800280-00	. HANDLE ASSEMBLY, Kit release	1	
-1	MS24667-9	. SCREW (Apply sealing compound, grade E)	5	
-2	55452	. . BUSHING	3	
-3	10000554	. . PIN, Anchor	1	
-4	10000827	. . SPRING, Helical, compression	1	
	EW51018	. . SPRING, Helical, compression (30941) (Interchangeable with 10000827)	1	
	800286-00	. . LATCH ASSEMBLY	1	
-5	55450	. . . PIN	1	
-6	10000555	. . . LATCH	1	
	800287-00	. . TRIGGER ASSEMBLY	1	
-7	55453	. . . PIN (Apply Molykote No. X106)	1	
-8	10000556	. . . LINK (Apply Molykote No. X106)	1	
-9	10000557	. . HANDLE, Right half	1	
-10	10000558	. . HANDLE, Left half	1	
	800101-00	. ACTUATOR ASSEMBLY (ATTACHING PARTS)	1	
-11	38030-3F8C	. SCREW, Button head (56878)	3	
-12	AN960-10	. WASHER ---*---	1	
-13	10000508	. . COVER (ATTACHING PARTS)	1	
-14	AQM62FS440-4C	. . SCREW, Machine (02615) ---*---	4	
-15	10000543	. . SPRING, Helical, compression	1	
-16	10000499	. . PIN, Spacer	2	
-17	10000504	. . LEVER (ATTACHING PARTS)	1	
-18	MS24665-132	. . PIN	1	
-19	MS20392-1C7	. . PIN	1	
-20	AN960-6L	. . WASHER ---*---	1	
-21	10000502	. . CLEVIS (ATTACHING PARTS)	1	
-22	MS24665-132	. . PIN	1	
-23	MS20392-1C9	. . PIN	1	
-24	AN960-6L	. . WASHER ---*---	1	
-25	10000503	. . LINK	4	
	800269-00	. . BODY ASSEMBLY	1	
-26	55471	. . . PIN (Apply Molykote No. X106)	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-35-27	MS21209F1-15	. . . INSERT (Apply Molykote No. X106)	3	
-28	10000498	. . . BODY (Apply Molykote No. X106)	1	
-29	800279-00	. CONDUIT ASSEMBLY	1	
-30	19561	. NUT	3	
	102C525-11	. NUT (30941) (Interchangeable with 19561)	3	
-31	55478	. NUT	3	
-32	19974	. NIPPLE	3	
	102C527-11	. NIPPLE (30941) (Interchangeable with 19974)	3	
-33	10000474	. COVER PLATE	3	
	204C721-11	. COVER PLATE (30941) (Interchangeable with 10000474) (ATTACHING PARTS)	3 1	
-34	AQM62FS440-4C	. SCREW, Machine (02615) ---*---	12	
-35	10000481	. LATCH	3	
	800238-00	. BODY ASSEMBLY (ATTACHING PARTS)	3	
-36	38030-3F8C	. SCREW, Button head (56878)	6	
-37	MS51960-65	. SCREW	12	
-38	22K1-02	. NUT (72962)	12	
-39	AN960PD10L	. WASHER ---*---	12	
-40	MS21209F1-15	. . INSERT	2	
-41	10000479	. . BODY	1	
-42	19974-1	. NIPPLE	2	
	102C527-13	. NIPPLE (30941) (Interchangeable with 19974-1)	2	
-43	58250	. CLAMP	3	
	46001	. CLAMP (30941) (Interchangeable with 58250) (ATTACHING PARTS)	3	
-44	AN505C6R7	. SCREW	3	
-45	22K2-62	. NUT (72962)	3	
-46	AN960C6L	. WASHER ---*---	3	
-47	55055-01	. CONDUIT ASSEMBLY	1	
-48	10000476	. REINFORCEMENT	2	
-49	MS20426AD4-6	. RIVET	14	
-50	AN960C4	. WASHER ---*---	14	
-51	800268-00	. CONDUIT ASSEMBLY	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-35-52	10000477	. REINFORCEMENT (ATTACHING PARTS)	1	
-53	MS20426AD4-6	. RIVET	3	
-54	AN960C4	. WASHER ---*---	3	
-55	55457	. BRACKET	2	
	204C423-11	. BRACKET (30941) (Interchangeable with 55457) (ATTACHING PARTS)	2	
-56	6-32UNF-3AX3-4	. SCREW, Hexagon, socket (70276)	4	
-57	22K2-62	. NUT (72962)	4	
-58	55422	. SPACER ---*---	4	
-59	10000453	. PLATE (ATTACHING PARTS)	2	
-60	MS20470AD4-5	. RIVET ---*---	4	
-61	21673	. GUIDE ASSEMBLY	1	
	204C630-1	. GUIDE ASSEMBLY (30941) (Interchangeable with 21673) (ATTACHING PARTS)	1	
-62	MS35216-41	. SCREW	6	
-63	18352	. NUT	6	
-64	AN960-8L	. WASHER	6	
-65	AN936A8	. WASHER ---*---	6	
-66	24859-01	. PAD	1	
-67	800505-00	. STRAP ASSEMBLY (Note 1) (ATTACHING PARTS)	2	
-68	55457	. BRACKET (Note 1)	4	
	204C423-11	. BRACKET (30941) (Note 1) (Interchangeable with 55457)	4	
-69	AN507-632R10	. SCREW (Note 1)	8	
-70	22K2-62	. NUT (72962) (Note 1)	8	
-71	55422	. SPACER (Note 1)	8	
-72	10000480	. CHANNEL (ATTACHING PARTS)	1	
-73	MS20426AD4-6	. RIVET ---*---	10	
-74	800241-00	. CONTAINER SUBASSEMBLY	1	
	Notes: 1. Removed by ACC 332			

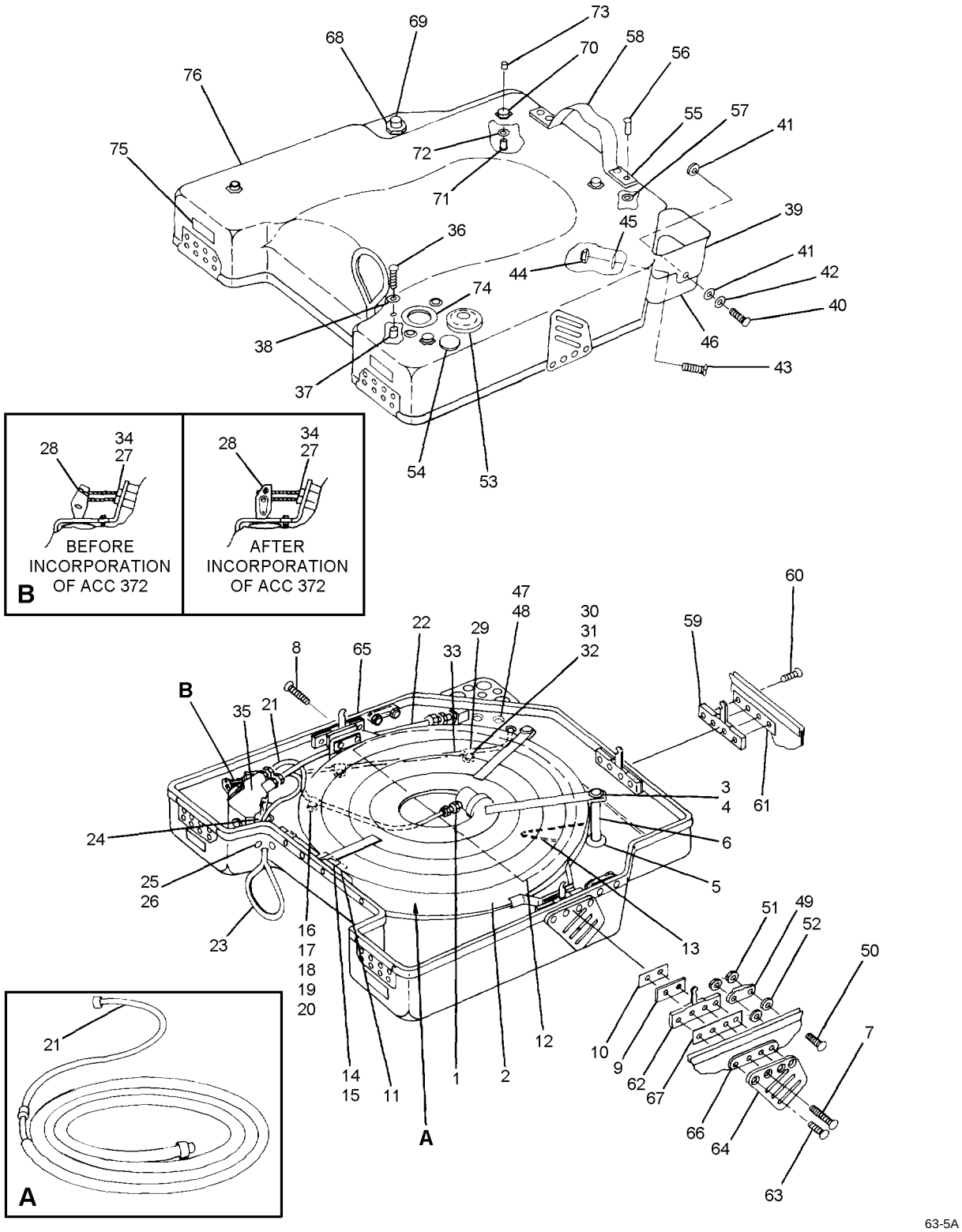


Figure 7-36. Upper Container Assembly (Scott)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-36	800236-00	CONTAINER ASSEMBLY, Upper ..... (See figure 7-34 for NHA)	REF	
-1	AN816-3C	. NIPPLE	1	
-2	21132-1	. CYLINDER ASSEMBLY ..... (ATTACHING PARTS)	1	
-3	LP22B028J10	. SCREW, Machine (03038)	4	
-4	AN960-416L	. WASHER	2	
-5	AN970-4	. WASHER	4	
-6	10000515	. SPACER	2	
-7	MS51960-71	. SCREW	2	
-8	MS51960-72	. SCREW	2	
-9	10000536	. SHIM	2	
-10	21189	. SHIM ..... ---*---	AR	
-11	AN932S2	. . PLUG	1	
-12	800469-00	. SUPPORT ASSEMBLY, Oxygen cylinder	1	
-13	10000974	. . PAD, PRESSURE sensitive	4	
-14	10000943	. PAD, Pressure sensitive	1	
	204C627	. PAD, Pressure sensitive (30941) ..... (Interchangeable with 10000943)	1	
-15	10000942	. PAD, Pressure sensitive	1	
	204C626-11	. PAD, Pressure sensitive (30941) ..... (Interchangeable with 10000942)	1	
-16	58468	. CLAMP	1	
	EW46002	. CLAMP (3094) ..... (Interchangeable with 58468) (ATTACHING PARTS)	1	
-17	AN525-832R9	. SCREW	1	
-18	MS20364-832A	. NUT	1	
-19	2832-17	. WASHER, Flat	1	
-20	AN960-8	. WASHER ..... ---*---	1	
-21	800467-00	. TUBE ASSEMBLY (Note 1)	1	
	801262	. TUBE ASSEMBLY (Note 1)	1	
-22	800242-00	. TUBE ASSEMBLY	1	
-23	21833-03	. RELEASE ASSEMBLY	1	
-24	800278-00	. ACTUATOR ASSEMBLY ..... (ATTACHING PARTS)	1	
-25	MS35216-41	. SCREW	2	
-26	MS20364-832A	. NUT	2	
-27	20415	. CLIP, Retaining	1	
	EW51011	. CLIP, Retaining (30941) ..... (Interchangeable with 20415) ---*---	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-36-28	MS24665-87	. PIN	1	
-29	58250	. CLAMP	3	
	EW46001	. CLAMP (30941) (Interchangeable with 58250) (ATTACHING PARTS)	3	
-30	AN525-832R7	. SCREW	3	
-31	MS20364-832A	. NUT	3	
-32	AN960-8	. WASHER ---*---	3	
-33	800296-00	. LANYARD ASSEMBLY (ATTACHING PARTS)	1	
-34	20415	. CLIP, Retaining	1	
	EW51011	. CLIP, Retaining (30941) (Interchangeable with 20415) ---*---	1	
-35	21051-19	. REDUCER/MANIFOLD ASSEMBLY (Supersedes 21051-13, 21051-15, and 21051-17) (See figure 7-40 for BKDN) (Note 2) (ATTACHING PARTS)	1	
-36	AN525-10R12	. SCREW	3	
-37	NAS43DD3-16	. SPACER	3	
-38	AN960-10	. WASHER ---*---	3	
-39	10000517	. GUIDE (ATTACHING PARTS)	1	
-40	MS35216-41	. SCREW	2	
-41	AN960-8	. WASHER	6	
-42	AN936A8	. WASHER	2	
-43	AN525-832R8	. SCREW	2	
-44	MS20364-832A	. NUT	2	
-45	AN960-8	. WASHER ---*---	2	
-46	21006-9	. BLOCK ASSEMBLY, Intermediate (See figure 7-39 for BKDN)	1	
	204D250-1	. BLOCK ASSEMBLY, Intermediate (30941) (Interchangeable with 21006-9) (ATTACHING PARTS)	1	
-47	MS35217-55	. SCREW	3	
-48	AN960PD10L	. WASHER ---*---	3	
-49	55457	. BRACKET	2	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-36	204C423-11	. BRACKET (30941) (Interchangeable with 55457) (ATTACHING PARTS)	2	
-50	55052	. SCREW, Machine	4	
-51	22K2-62	. NUT (72962)	4	
-52	55422	. SPACER ---*---	4	
-53	20072	. BUTTON ASSEMBLY	1	
-54	BS5Z338-K1105	. PLUG, Button (83058)	1	
	21022-3	. LID ASSEMBLY, Container	1	
-55	21190	. . RETAINER	2	
	204C213-11	. . RETAINER (30941) (Interchangeable with 21190) (ATTACHING PARTS)	2	
-56	MS20480A4-7	. . RIVET	4	
-57	AN960PD6	. . WASHER ---*---	4	
-58	27490	. . WEBBING	1	
	204C215-11	. . WEBBING (30941) (Interchangeable with 27490)	1	
-59	15306	. . HOOK, Lid lock (ATTACHING PARTS)	1	
-60	38030-3F-10C	. . SCREW, Button head (56878) (Apply sealing compound grade C)	2	
-61	10000516	. . SPACER	1	
	204C225-1	. . SPACER (30941) (Interchangeable with 10000516) ---*---	1	
-62	15306	. . HOOK, Lid lock (ATTACHING PARTS)	2	
-63	MS51960-68	. . SCREW	4	
-64	15030	. . PLATE, Left hand	1	
-65	15031	. . PLATE, Right hand	1	
-66	23204-1	. . SPACER	2	
	204C214-11	. . SPACER (30941) (Interchangeable with 23204-1)	2	
-67	10000516	. . SPACER	2	
	203C225-1	. . SPACER (30941) (Interchangeable with 10000516) ---*---	2	
-68	10000711	. . SOCKET (Apply sealing compound, grade C)	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-36	204C226-11	. . SOCKET (30941) ..... (Apply sealing compound, grade C) (Interchangeable with 10000711) (ATTACHING PARTS)	1	
-69	55478	. . NUT, Lock ..... ---*---	1	
-70	AN227-64B	. . STUD ..... (ATTACHING PARTS)	4	
-71	MS20470A4-7	. . RIVET	4	
-72	AN960PD6	. . WASHER	4	
-73	NAS42DD4-7	. . SPACER ..... ----*---	4	
-74	20395	. . WINDOW (Apply bonding agent R-313)	1	
-75	10000524	. . TAPE, Pile (Apply cement EC-780)	2	
-76	800237-00	. LID	1	
	Notes: 1. Either tube assembly may be used, depending on the configuration of 21132-1 cylinder assembly. 2. P/N 21051-19 contains KEL-F type valve seat.			

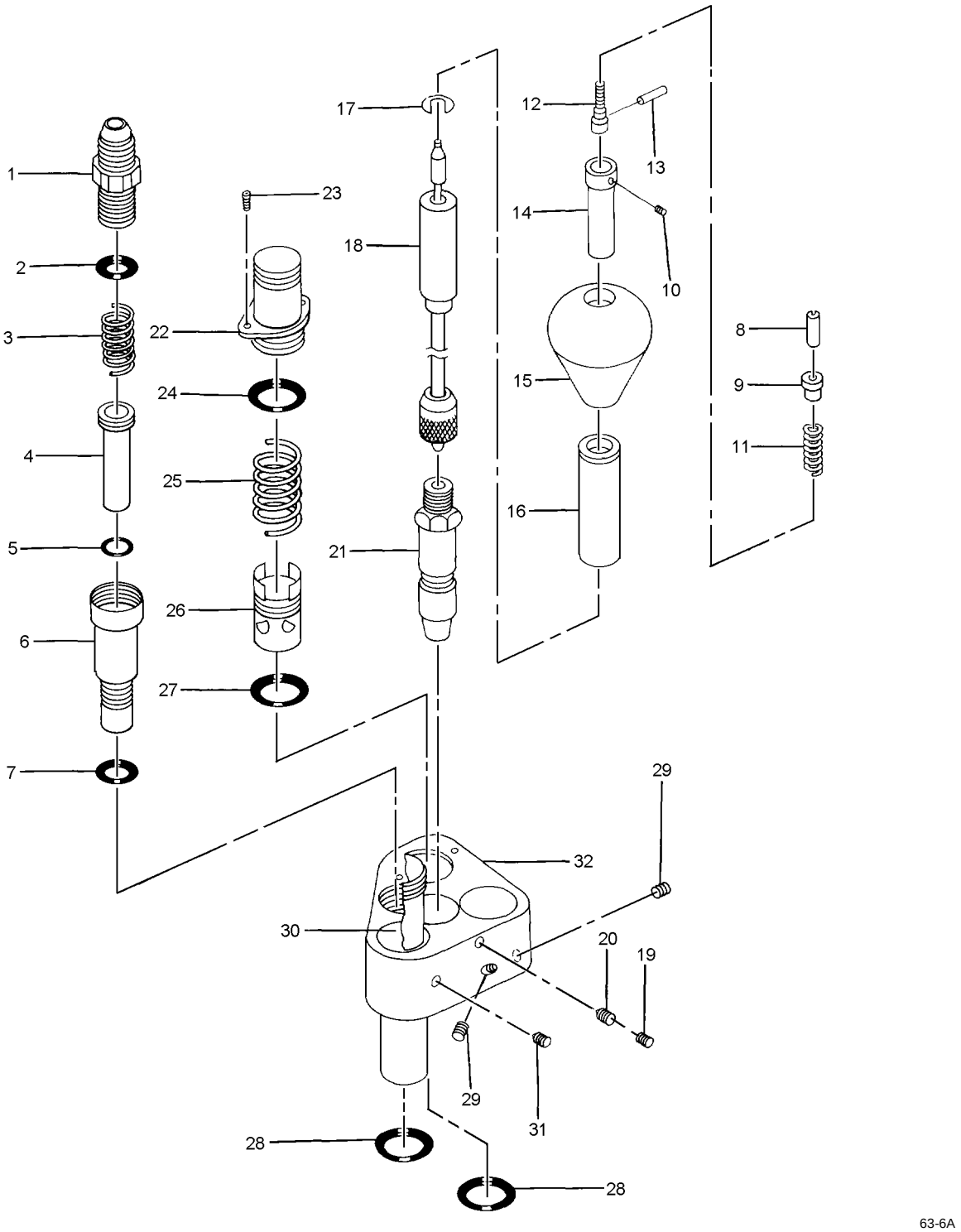


Figure 7-37. Upper Block Assembly (Scott)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-37	21133-7	BLOCK ASSEMBLY, Upper (Parts kit available) .... (See figure 7-34 for NHA)	REF	
	183D100-1	BLOCK ASSEMBLY, Upper (30941) ..... (See figure 7-34 for NHA)	REF	
-1	10000550	. FITTING, Hose connector	1	
-2	3-4-S417-7	. PACKING, Preformed (02697) (KC)	1	
-3	10000549	. SPRING, Helical compression	1	
-4	10000547	. SLEEVE	1	
-5	2800A5A	. PACKING, Preformed (KC)	1	
-6	10000548	. BODY	1	
-7	3-4-S417-7	. PACKING, Preformed (02697)	1	
	40218-13	. BLOCK SUBASSEMBLY, Upper	1	
	26338-01	. . LANYARD ASSEMBLY, Manual actuation	1	
	26331-01	. . . INDICATOR, Lock Assembly	1	
-8	26332	. . . . INDICATOR, Manual release ..... (Apply sealing compound, grade E)	1	
-9	26334	. . . . SLEEVE, Manual release ..... (ATTACHING PARTS)	1	
-10	AN565D2H2	. . . . SETSCREW ..... (Apply sealing compound, grade E) ---*---	1	
-11	26335	. . . . SPRING, Helical compression	1	
-12	26336	. . . . FOLLOWER	1	
-13	26337	. . . . PIN, Lock	1	
-14	26333	. . . . RETAINER, Knob	1	
-15	56494-00	. . . HAND KNOB, Manual release	1	
-16	26343	. . . SLEEVE, Housing	1	
-17	26339	. . . KEY, Shaft	1	
-18	26327-01	. . . RETENTION ASSEMBLY, Hand knob ..... (Apply sealing compound, grade E)	1	
	24475-01	. . LOCK PIN ASSEMBLY, Manual release ..... (Note 1)	1	
	24475-03	. . LOCK PIN ASSEMBLY, Manual release ..... (Note 1)	1	
	24475-05	. . LOCK PIN ASSEMBLY, Manual release ..... (Note 1)	1	
	24475-07	. . LOCK PIN ASSEMBLY, Manual release ..... (Note 1) (ATTACHING PARTS)	1	
-19	MS59625-27	. . SETSCREW	1	
-20	24484-01	. . SETSCREW ..... ---*---	1	
-21	800289-00	. . . LOCK PIN ASSEMBLY, Blank	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-37-22	19310-00	. . FITTING, Hose, vent	1	
		(ATTACHING PARTS)		
-23	19912-00	. . SCREW, Machine	2	
		(Apply sealing compound, grade E)		
		---*---		
-24	2-15S418-6	. . PACKING, Preformed (02697) (KC)	1	
-25	10000815	. . SPRING, Helical, compression	1	
-26	40026	. . VALVE, Check	1	
-27	2-15S418-6	. . PACKING, Preformed (02697) (KC)	1	
-28	2-17B318-7	. . PACKING, Preformed (02697) (KC)	2	
-29	MS51977-29	. . SETSCREW	2	
-30	19970	. . FITTING, Hose, anti-g	1	
		(ATTACHING PARTS)		
-31	MS51977-29	. . SETSCREW	1	
		(Apply sealing compound, grade E)		
		---*---		
-32	56497-00	. . HOUSING, Upper block	1	
	26936	PARTS KIT, Upper block assembly (KC)	1	
	Notes: 1. Select one at assembly.			

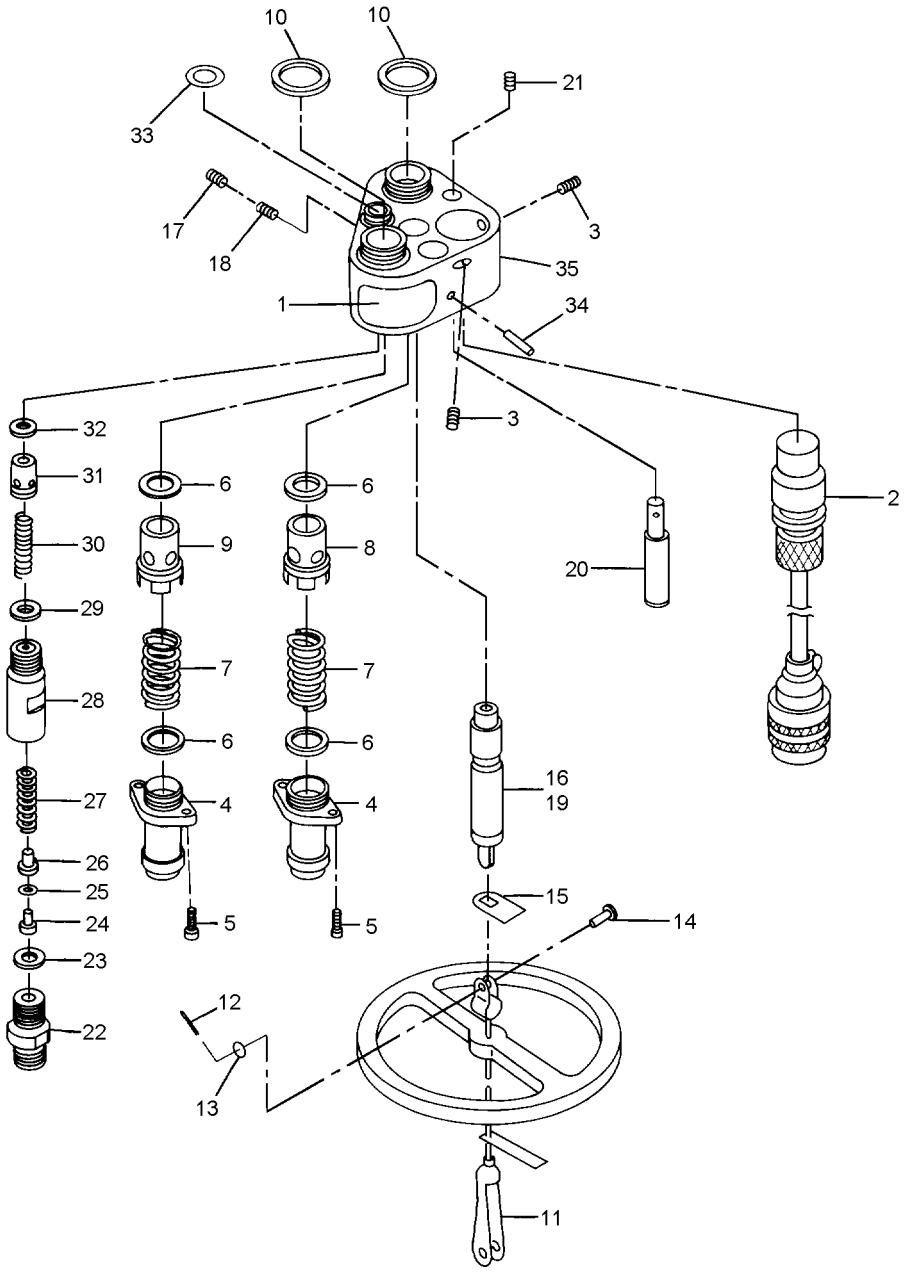


Figure 7-38. Lower Block Assembly (Scott)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-38	21007-5	BLOCK ASSEMBLY, Lower (Parts kit available) . . . . (See figure 7-34 for NHA)	REF	
	183D200-1	BLOCK ASSEMBLY, Lower (30941) . . . . . (Parts kit available) (See figure 7-34 for NHA) (Interchangeable with 21007-5)	REF	
-1	10000801	. PLATE, Identification	1	
-2	21020-3	. CABLE ASSEMBLY, Electrical	1	
	40031-05	. BLOCK SUBASSEMBLY, Lower	1	
-3	MS51977-29	. . SETSCREW	2	
-4	19310	. . FITTING, Hose . . . . . (ATTACHING PARTS)	2	
-5	19912	. . SCREW, Machine . . . . . (Apply sealing compound, grade C) ---*---	4	
-6	2-15S418-6	. . PACKING, Preformed (02697) (KC)	4	
-7	10000815	. . SPRING, Helical, compression	2	
-8	40026	. . VALVE, Check	1	
-9	40072	. . VALVE, Check	1	
-10	2-17B278-7	. . PACKING, Preformed (02697)	2	
-11	15286	. . CABLE ASSEMBLY, Lock pin . . . . . (ATTACHING PARTS)	1	
-12	AN381-2-5	. . PIN	1	
-13	AN960C4	. . WASHER	1	
-14	MS20392-1C9	. . PIN . . . . . ---*---	1	
-15	55027	. . INDICATOR, Lock pin	1	
-16	19857-00	. . LOCK PIN ASSEMBLY (Note 1)	1	
	19857-01	. . LOCK PIN ASSEMBLY (Note 1)	1	
	19857-03	. . LOCK PIN ASSEMBLY (Note 1)	1	
	19857-05	. . LOCK PIN ASSEMBLY (Note 1) . . . . . (ATTACHING PARTS)	1	
-17	MS51965-27	. . SETSCREW	1	
-18	24484-01	. . SETSCREW . . . . . ---*---	1	
-19	800235-00	. . . LOCK PIN ASSEMBLY, Blank	1	
-20	15513	. . LOCK PIN ASSEMBLY . . . . . (ATTACHING PARTS)	1	
-21	MS51977-29	. . SETSCREW . . . . . (Apply sealing compound, grade C) ---*---	1	
	15287	. . CHECK VALVE ASSEMBLY	1	
-22	15705	. . . FITTING	1	
-23	3-4S417-7	. . . PACKING, Preformed (02697) (KC)	1	
-24	20673	. . . POPPET	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-38-25	7014	. . . WASHER	1	
-26	7017	. . . SLEEVE	1	
-27	15503	. . . SPRING, Helical, compression	1	
-28	55511	. . . BODY	1	
-29	3-4-S417-7	. . PACKING, Preformed (02697)	1	
-30	55025	. . SPRING, Helical, compression	1	
-31	15702	. . VALVE, Check	1	
-32	2-10S613-6	. . PACKING, Preformed (02697) (KC)	1	
-33	2-12B318-7	. . PACKING, Preformed (02697)	1	
-34	MS171436	. . PIN	1	
-35	55516-3	. . BODY	1	
	26937	PARTS KIT, Lower block assembly (KC)	1	
	Notes: 1. Select one at assembly.			

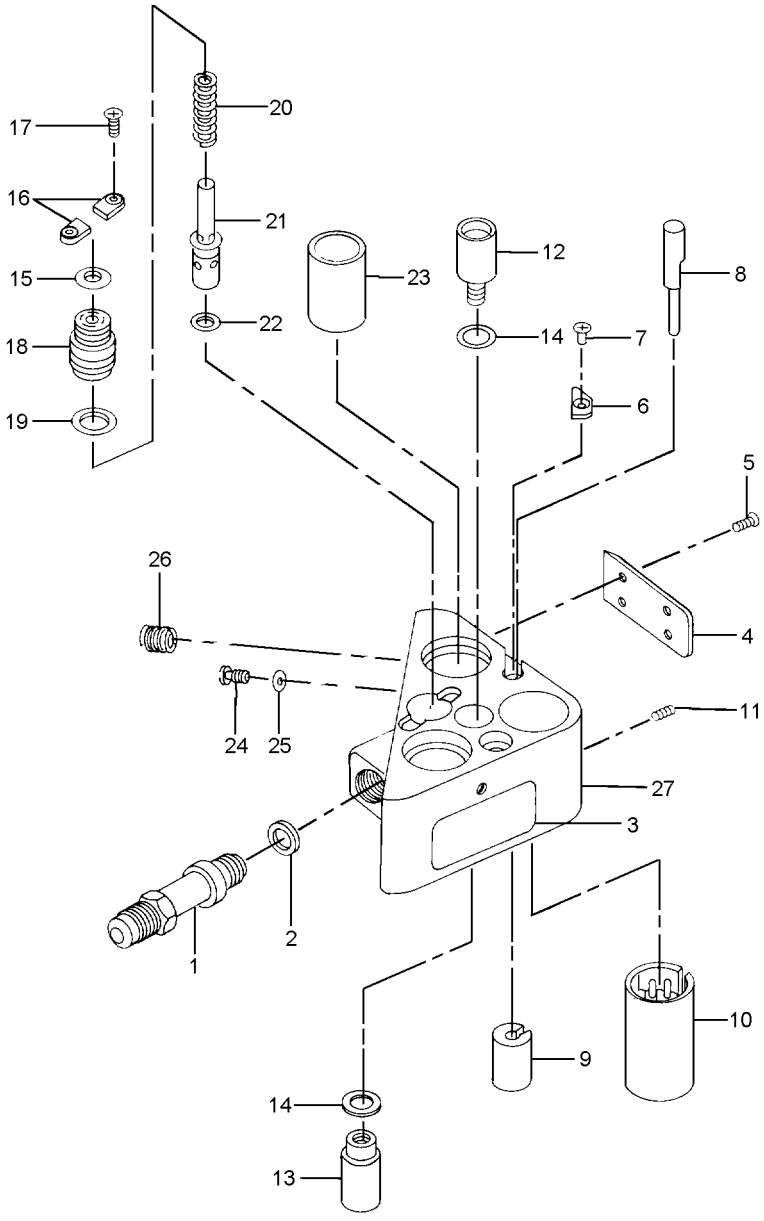


Figure 7-39. Intermediate Block Assembly (Scott)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-39	21006-9	BLOCK ASSEMBLY, Intermediate (Parts kit available) (See figure 7-36 for NHA)	REF	
	204D250-1	BLOCK ASSEMBLY, Intermediate (30941) (See figure 7-36 for NHA) (Interchangeable with 21006-9)	REF	
-1	15301	. CONNECTOR, Oxygen	1	
-2	3-4S417-7	. PACKING, Preformed (02697) (KC)	1	
-3	10000902	. PLATE, Identification	1	
	40028-09	. BLOCK SUBASSEMBLY, Intermediate	1	
-4	55443	. . COVER, Conduit (ATTACHING PARTS)	1	
-5	MS51959-3	. . SCREW ---*---	4	
-6	19157	. . RETAINER (ATTACHING PARTS)	1	
-7	MS35190-210	. . SCREW (Apply sealing compound, grade E) ---*---	1	
-8	15300	. . PIN, Lock	1	
-9	19936	. . SLEEVE	1	
-10	55056	. . CONNECTOR, Electrical	1	
	204D266-1	. . CONNECTOR, Electrical (30941) (Interchangeable with 55056) (ATTACHING PARTS)	1	
-11	MS51977-29	. . SETSCREW ---*---	1	
-12	24485-01	. . INSERT, Male (Apply sealing compound, grade D)	1	
-13	24486-01	. . INSERT, Female	1	
-14	55011	. . SHIM	AR	
-15	2-12B318-7	. . PACKING, Preformed (02697) (KC)	1	
-16	10000526	. . RETAINER (ATTACHING PARTS)	2	
-17	MS35190-210	. . SCREW (Apply sealing compound, grade E) ---*---	2	
-18	10000525	. . PLUG, Interface	1	
-19	2-13S613-6	. . PACKING, Preformed (02697) (KC)	1	
-20	15299	. . SPRING, Helical, compression	1	
	EW51010	. . SPRING, Helical, compression (30941) (Interchangeable with 15299)	1	
-21	19938	. . CHECK VALVE	1	
-22	2-10S613-6	. . PACKING, Preformed (02697)	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-39-23	55455	. . SLEEVE	1	
		(ATTACHING PARTS)		
-24	19935	. . SCREW, Machine	1	
		---*---		
-25	2-4S613-6	. PACKING, Preformed (02697) (KC)	1	
-26	MS21209F1-15	. . INSERT	3	
-27	55456-02	. . HOUSING	1	
	26939	PARTS KIT, Intermediate block assembly (KC)	1	

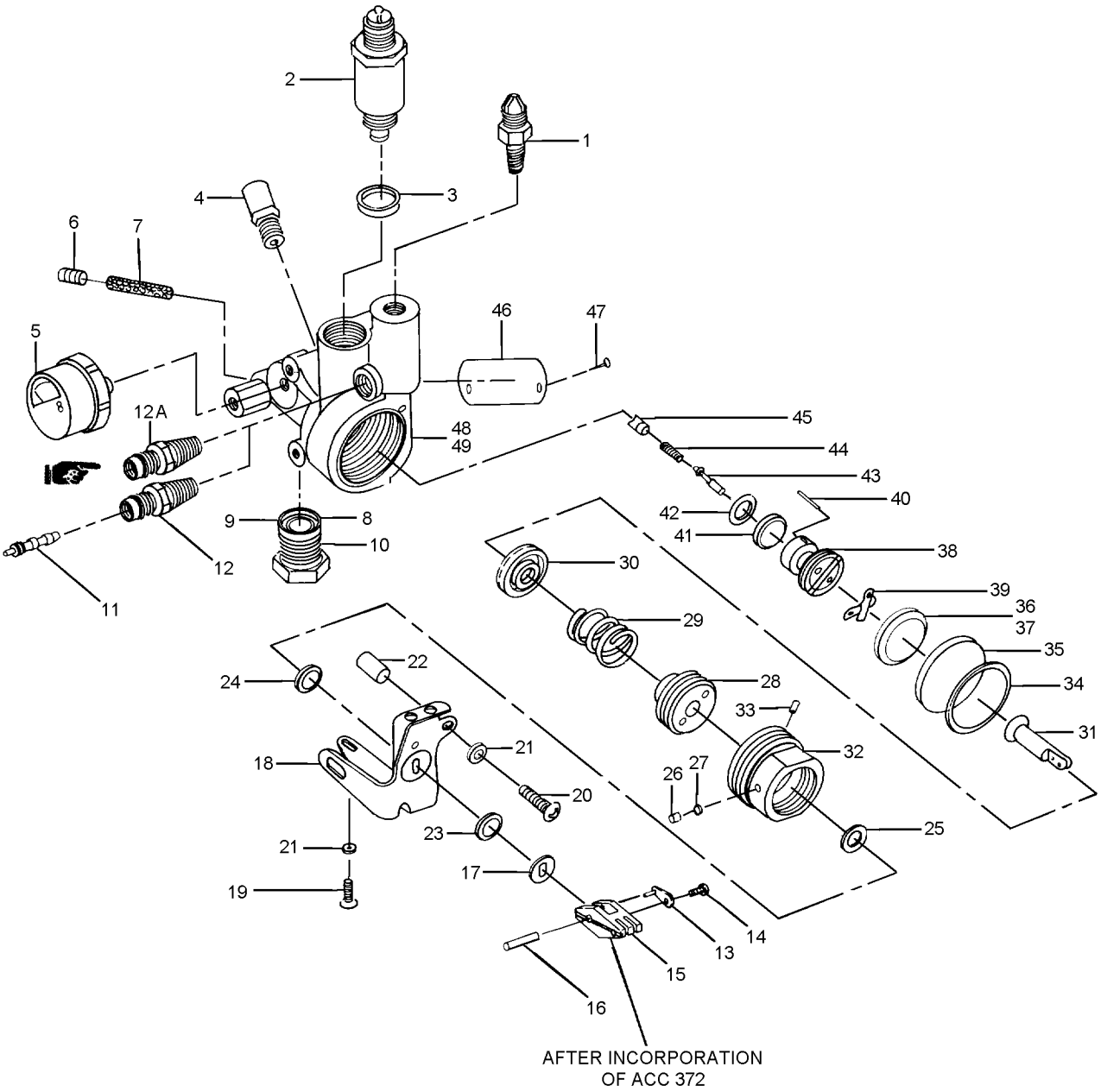


Figure 7-40. Reducer/Manifold Assembly (Scott)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-40	21051-19	REDUCER/MANIFOLD ASSEMBLY ..... (See figure 7-36 for NHA) (Supersedes 20151-17)	REF	A
	21051-17	REDUCER/MANIFOLD ASSEMBLY ..... (See figure 7-36 For NHA) (Replaced by 21051-19)	REF	B
-1	AN816-3C	. NIPPLE (Torque 75 in-lbs)	1	
-2	800264-00	. VALVE ASSEMBLY, Surge control	1	
-3	2-13-77-545	. PACKING, Preformed (02697)	1	
-4	5043-6	. VALVE ASSEMBLY, Relief	1	
-5	20430	. GAGE, Pressure, dial indicating	1	
	EW68001	. GAGE, Pressure, dial indicating (30941) ..... (Interchangeable with P/N 20430)	1	
-6	AN932D1	. PLUG	1	
-7	22639-11	. SCREEN, Filter	1	
	6552	. PLUG ASSEMBLY, Safety (Torque 375 lb-in)	1	
-8	6555	. . GASKET	1	
-9	6554	. . DISC	1	
-10	6553	. . PLUG	1	
	221B380-1	. VALVE ASSEMBLY, Filler ..... (Torque 4 to 5 lb-in)	1	
-11	20018	. . CORE, Valve (Torque 4 to 5 lb-in) (Note 1)	1	
-12	10001308	. . BODY	1	
-12A	9120097-27	. FILL VALVE (Note 2)	1	
-13	22398-1	. SPRING, Detent KF ..... (ATTACHING PARTS)	1	B
-14	AN520-0-2	. SCREW ..... (Apply loctite sealant, grade A or equivalent) ---*---	1	B
-15	21030	. ARM, Toggle ..... (ATTACHING PARTS)	1	
-16	MS171494	. PIN ..... ---*---	1	
-17	22021	. SPACER KF	1	
-18	25342	. BRACKET ..... (ATTACHING PARTS)	1	
-19	AN515-4R3	. SCREW KF	1	
-20	AN515-4R10	. SCREW KF	1	
-21	AN936A4	. WASHER	2	
-22	NAS42DD4-22	. SPACER ..... ---*---	1	
-23	20364	. SPACER KF	AR	
-24	20364-01	. SPACER KF	AR	
-25	20364-02	. SPACER KF	AR	
-26	AN565DC6H2	. SETSCREW KF	1	
-27	20082	. INSERT KF	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-40-28	20042-03	. RETAINER	1	
-29	10000947	. SPRING, Helical, compression	1	
-30	22293-01	. PLATE, Thrust	1	
-31	22292-03	. PIN, Thrust	1	
-32	20041	. SLEEVE (Torque 30 ±5 in-lbs)	1	
-33	11622-04	. PLUG	1	
-34	11597	. RING, Slip KF	1	
-35	11594	. DIAPHRAGM KC	1	
-36	20057	. PLATE, Thrust KF	1	
-37	10005310	. PLATE, Thrust	1	A
-38	10000945	. GUIDE	1	
-39	26183	. LEVER, Actuating	2	
		(ATTACHING PARTS)		
-40	2836-02	. PIN, Straight, headless	2	
		---*---		
-41	22199-02	. SEAT, Valve	1	
-42	2800A6A	. PACKING, Preformed KC	1	
-43	10001148	. STEM, Valve	1	
-44	10000948	. SPRING, Helical, Compression	1	
-45	10000946	. SUPPORT, Spring	1	
-46	10000826	. PLATE, Identification	1	
		(ATTACHING PARTS)		
-47	AN535-00-2	. SCREW	2	
		---*---		
	25264-01	. BODY ASSEMBLY	1	
-48	MS21209F1-15	. . INSERT	3	
-49	25264-3	. . BODY	1	
	26488	. . PARTS KIT, Cure date, reducer/manifold KC, 1 inch	1	
	26490	. . PARTS KIT, Field repair reducer/manifold KF, 1 inch	1	
	Notes: 1. Use valve core tool P/N 2688 (CAGE 27783) NIIN 00-541-4687 for removal of valve core. 2. Fill Valve can be used as an alternate to replace Filler Valve Assembly P/N 221B380-1 or Valve Core P/N 20018 and Body P/N 10001308.			

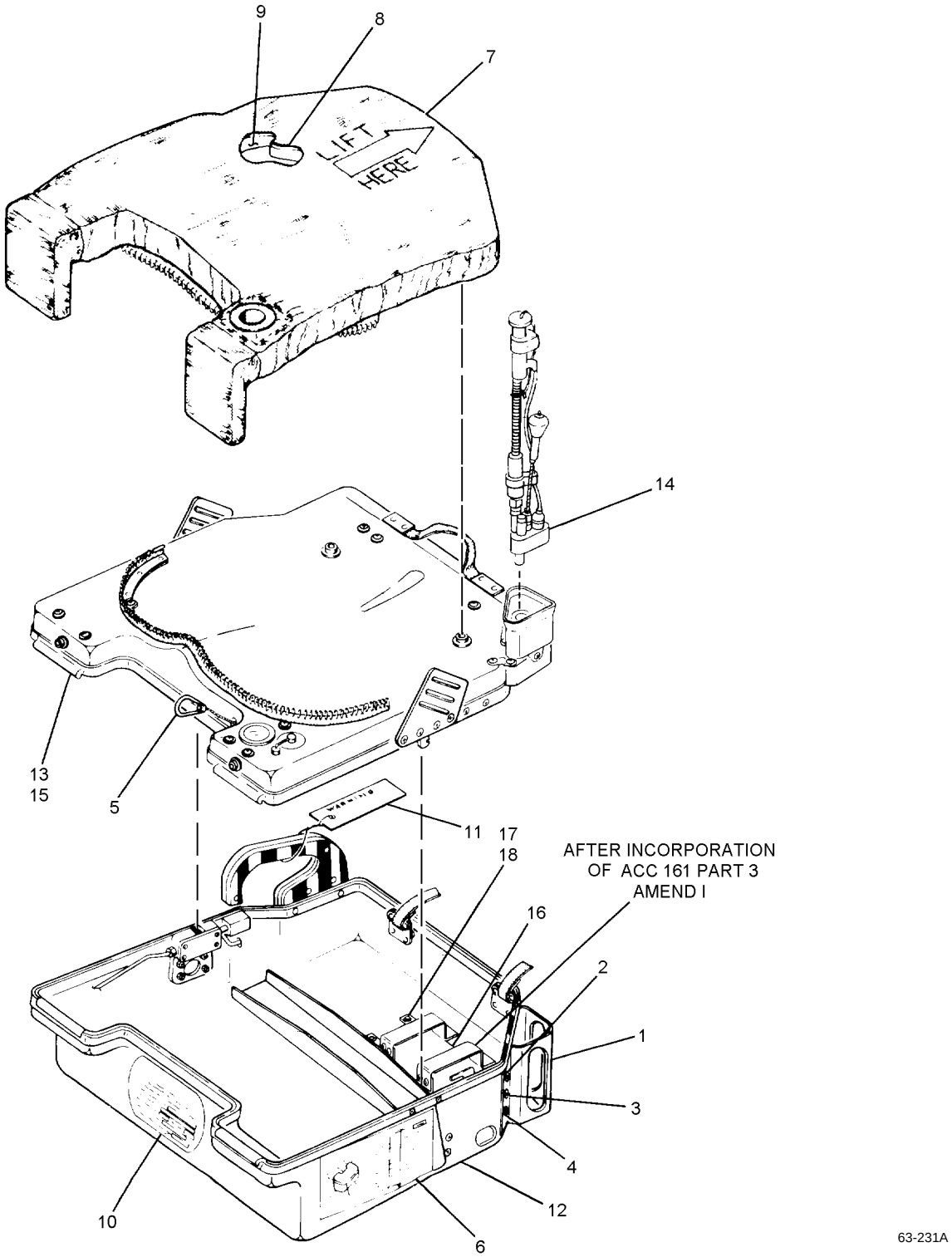


Figure 7-41. Rigid Seat Survival Kit-1 (Scott)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-41	21000-9	KIT, SEAT SURVIVAL	REF	
-1	21673	. SHROUD ASSEMBLY, Survival kit	1	
	204C630-1	. SHROUD ASSEMBLY, Survival kit (30941) (Interchangeable with 21673) (ATTACHING PARTS)	1	
-2	MS35216-41	. SCREW	2	
	AN960-8L	. WASHER, Flat	2	
	AN936A8	. WASHER, Lock	2	
	MS20364-832	. NUT, Self-locking, hexagon	2	
-3	MS35216-42	. SCREW	2	
	AN960-8L	. WASHER, Flat	2	
	AN936A8	. WASHER, Lock	2	
	MS20364-832	. NUT, Self-locking, hexagon	2	
-4	MS35216-43	. SCREW	2	
	AN960-8L	. WASHER, Flat	2	
	AN936A8	. WASHER, Lock	2	
	MS20364-832	. NUT, Self-locking, hexagon	2	
		---*---		
-5	21833-3	. LANYARD ASSEMBLY, Manual oxygen actuation (Alternate for 21833-1)	1	
	21833-1	. LANYARD ASSEMBLY, Manual oxygen actuation (Alternate for 21833-3)	1	
-6	21145	. PLATE, Instruction	1	
	25054	. CUSHION ASSEMBLY, Survival kit contoured	1	
-7	25054-1	. . COVER ASSEMBLY, Survival kit cushion	1	
-8	24873	. . PAD, Cushion	1	
-9	24874	. . INSERT, Contoured cushion	1	
-10	22382-1	. PLATE, Identification	1	
-11	2769	. TAG, Warning	1	
	204C925	. TAG, Warning (30941) (Interchangeable with 2769)	1	
-12	21466-3	. CONTAINER ASSEMBLY, Survival kit, lower (Note 1) (Before ACC 319)	1	
	CL226D3	. CONTAINER ASSEMBLY, Survival kit, lower (After ACC 319)	1	
-13	21001-3	. CONTAINER ASSEMBLY, Survival kit, upper (Note 1) (Before ACC 319)	1	
	CL226D4	. CONTAINER ASSEMBLY, Survival kit upper (After ACC 319)	1	
-14	21133-7	. BLOCK ASSEMBLY, Upper	1	
	183D100-1	. BLOCK ASSEMBLY, Upper (30941) (Interchangeable with 21133-7) (Parts kit available)	1	
-15	25341-1	. CONTAINER ASSEMBLY	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-41-16	CL204D2-1	. BRACKET ASSEMBLY, Radio beacon (KF) . . . . . (Note 2)	1	
		(ATTACHING PARTS)		
-17	MS20470A4-7	. RIVET (Note 2) (KF)	4	
-18	AN960PD-4	. WASHER (Note 2) (KF)	4	
		---*---		
	V66-6ACC-161	. PARTS KIT (F)	1	
	Notes: 1. Order 25341-1 for matched set 2. After Incorporation of ACC-161, Part III, Amend. 1.			

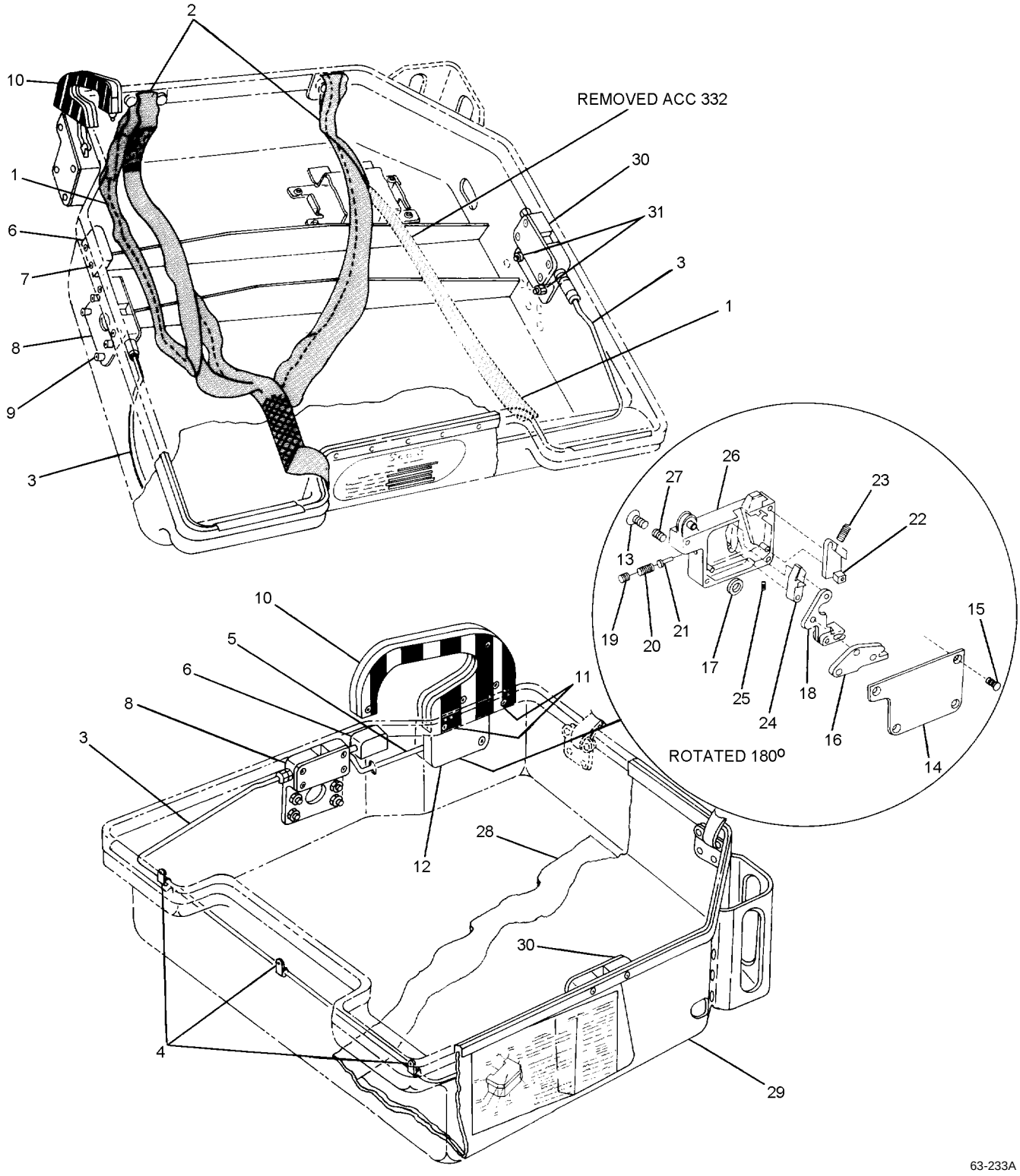


Figure 7-42. Lower Container Assembly-1 (Scott)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-42	21466-3	CONTAINER ASSEMBLY, Lower ..... (See figure 7-41 for NHA)	REF	
-1	22028-1	. LANYARD, Survival kit bag (Note 1)	2	
-2	5-581226	. DROPLINE, Survival kit (92526)	1	
	21421-3	. CONTAINER ASSEMBLY, Survival kit, lower ... (31441) (Altered from 255001-1)	1	
-3	255620	. . CABLE ASSEMBLY, Lid lock (31441) ..... (ATTACHING PARTS)	1	
-4	AN505C6R7	. . SCREW, Machine	3	
	22K2-62	. . NUT (72962) ..... ---*---	3	
-5	255610-1	. . CABLE ASSEMBLY, Actuator to right ..... hand lid lock (31441)	1	
-6	255650	. . RELEASE ASSEMBLY, Manual (31441) ..... (ATTACHING PARTS)	1	
-7	M62FS632-7C	. . SCREW (02615) ..... ---*---	2	
-8	255500	. . LOCK ASSEMBLY, right hand lid (31441) .... (ATTACHING PARTS)	1	
-9	AN510C10R8	. . SCREW, Machine	4	
	AN960PD10L	. . WASHER, Flat	4	
	22K1-02	. . NUT (72962) ..... ---*---	4	
-10	255450-3	. . HANDLE ASSEMBLY, Kit release (31441) .... (ATTACHING PARTS)	1	
-11	NAS229-13	. . SCREW, Machine ..... ---*---	2	
-12	24482-1	. . ACTUATOR ASSEMBLY, Cable (31441) ..... (ATTACHING PARTS)	1	
-13	NAS229-13	. . SCREW, Machine ..... ---*---	1	
-14	255432	. . . COVER (31441) ..... (ATTACHING PARTS)	1	
-15	M62FS440-5C	. . . SCREW, (02615) ..... ---*---	4	
-16	255411-3	. . . LEVER ASSEMBLY, Primary (31441)	1	
-17	255420	. . . BUSHING (31441)	1	
-18	255414	. . . LINK ASSEMBLY, Secondary (31441)	1	
-19	MS51035-44	. . . SETSCREW	1	
-20	255457	. . . SPRING (31441)	1	
-21	255422	. . . PLUNGER (31441)	1	
-22	255426	. . . CAP, Locking (31441)	1	
-23	255427	. . . SPRING (31441)	1	
-24	255416	. . . CAM, Locking (31441)	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-42-25	99008-1	. . . SETSCREW (31441)	1	
-26	255430	. . . HOUSING ASSEMBLY (31441)	1	
-27	3591-3CNX190	. . . . INSERT, Screw threaded (26344)	3	
-28	24859	. . PAD, Lower container	1	
-29	No Number	. CONTAINER ASSEMBLY, Lower	1	
-30	255510	. LOCK ASSEMBLY, Left hand lid (31441)	1	
		(ATTACHING PARTS)		
-31	AN510C10R8	. SCREW	4	
	AN960PD10L	. WASHER, Flat	4	
	22K1-02	. NUT (72962)	4	
		---*---		
	Notes: 1. Removed by ACC 332.			

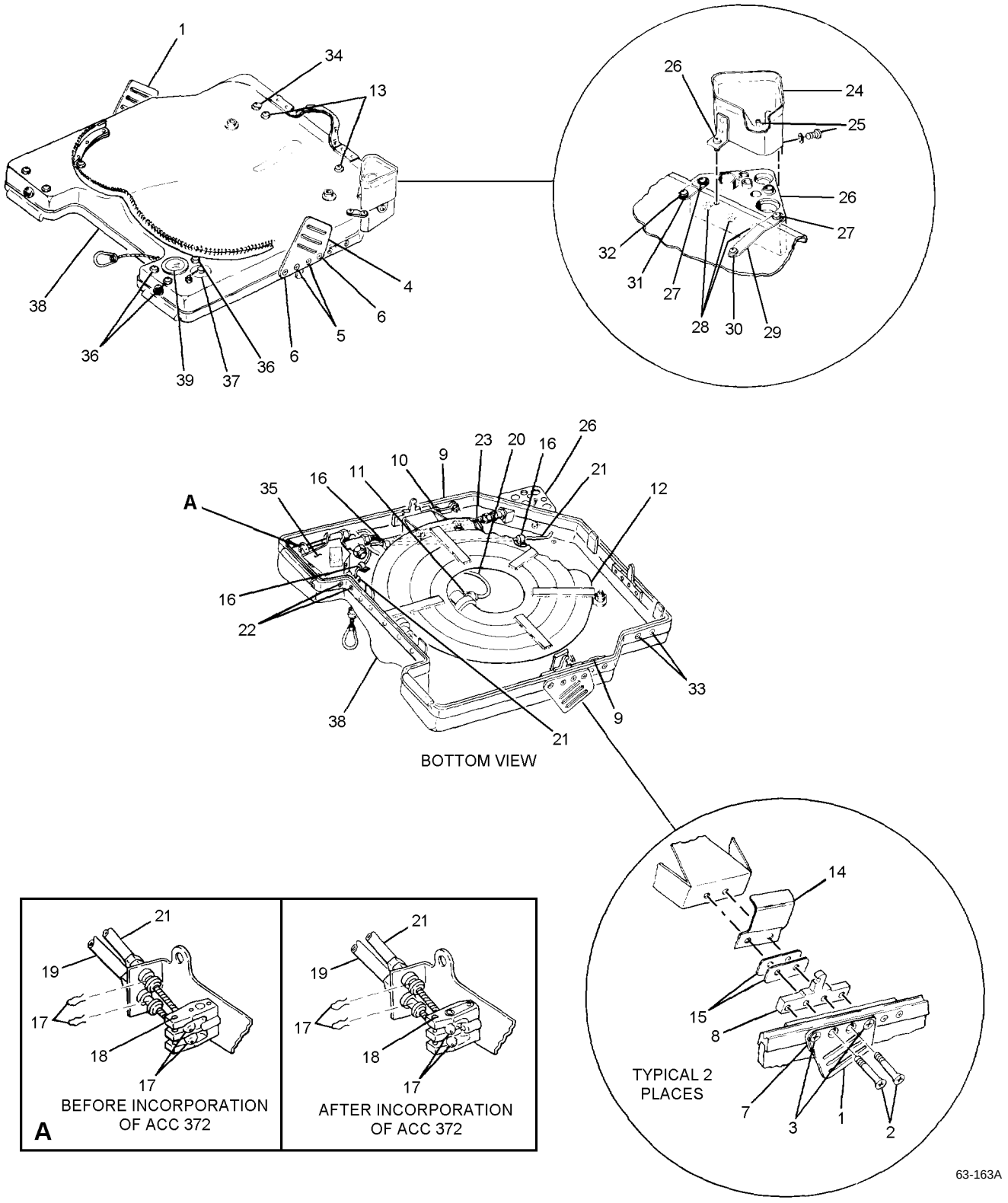


Figure 7-43. Upper Container Assembly-1 (Scott)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-43	21001-3	CONTAINER ASSEMBLY, Upper ..... (See figure 7-41 for NHA)	REF	
-1	255706	. PLATE, Attachment RH (31441) ..... (ATTACHING PARTS)	1	
-2	AN510C10R24	. SCREW Machine	2	
-3	AN510C10R14-4	. SCREW Machine ..... ---*---	2	
-4	255705	. PLATE, Attachment LH (31441) ..... (ATTACHING PARTS)	1	
-5	AN510C10R20	. SCREW, Machine	2	
-6	AN510C10R14-4	. SCREW, Machine	2	
-7	23204-1	. SPACER	2	
	204C214-11	. SPACER (30941) ..... (Interchangeable with 23204-1)	2	
-8	255504	. HOOK, Lid lock (31441)	2	
-9	255211	. BRACKET, Footman (31141) ..... (ATTACHING PARTS)	2	
	COML	. SCREW, Hexagon socket button head	4	
	22K2-62	. NUT, Self-locking, cap (72962) ..... ---*---	4	
-10	255212	. SPACER, Footman bracket (31441)	4	
-11	AN816-3C	. NIPPLE	1	
-12	21132-1	. CYLINDER ASSEMBLY, Emergency oxygen .... (ATTACHING PARTS)	1	
-13	AN525-416R24	. SCREW, Machine	2	
	AN970-4	. WASHER, Flat	4	
	AN960-416L	. WASHER, Flat	AR	
	NAS43-4-52	. SPACER, Sleeve	2	
	MS20364-428A	. NUT, Self-locking, hexagon ..... ---*---	2	
-14	23578-1	. BRACKET, Exhaust vent hose	1	
-15	21189	. SHIM, Emergency oxygen cylinder	AR	
-16	EC2	. CLAMP, Loop (06915) ..... (ATTACHING PARTS)	3	
	AN525-832R7	. SCREW, Machine	3	
	AN960-8	. WASHER, Flat	3	
	MS20364-832	. NUT, Self-locking, hexagon ..... ---*---	3	
-17	20415	. PIN, Cotter (91260)	2	
-18	MS24665-87	. PIN, Spring	1	
-19	21025-1	. LANYARD ASSEMBLY, Oxygen bottle ..... actuating	1	
-20	21038	. TUBE ASSEMBLY, Oxygen high pressure	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-43-21	23402-3	. ACTUATOR ASSEMBLY, Oxygen (ATTACHING PARTS)	1	
-22	MS35216-41	. SCREW	2	
	MS20364-832A	. NUT, Self-locking, hexagon ---*---	2	
-23	25220-1	. HOSE ASSEMBLY, Oxygen manifold to block disconnect	1	
-24	24712-1	. GUIDE ASSEMBLY, Disconnect block (ATTACHING PARTS)	1	
-25	MS35216-39	. SCREW	2	
	AN960-8	. WASHER, Flat	2	
	AN936A8	. WASHER, Lock	2	
-26	MS35216-41	. SCREW	1	
	AN960-8L	. WASHER, Flat	AR	
	MS20364-832A	. NUT, Self-locking, hexagon ---*---	1	
	21006-7	. BLOCK ASSEMBLY, Intermediate disconnect (31441) (Altered from 242300-7) (See figure 7-46 for BKDN) (ATTACHING PARTS)	1	
-27	MS35217-53	. SCREW	2	
	AN960-10L	. WASHER, Flat	2	
-28	MS35217-55	. SCREW	3	
	AN960PD10L	. WASHER, Flat ---*---	3	
-29	21649	. STRAP, Disconnect block retaining LH (ATTACHING PARTS)	2	
-30	MS35216-41	. SCREW	1	
	AN960-8L	. WASHER, Flat	1	
	MS20364-832A	. NUT, Self-Locking, Hexagon ---*---	1	
-31	21648	. STRAP, Disconnect block retainer RH (ATTACHING PARTS)	1	
-32	MS35216-41	. SCREW	1	
	AN960-8L	. WASHER, Flat	1	
	MS20364-832A	. NUT, Self-locking, hexagon ---*---	1	
-33	AN507C832R7	. SCREW, Machine	2	
	AN960PD8L	. WASHER, Flat	AR	
-34	AN515-8R6	. SCREW, Machine	1	
	AN960PD8L	. WASHER, Flat	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-43-35	21051-19	. REDUCER/MANIFOLD ASSEMBLY . . . . . . (Supersedes 21051-13 and 21051-15) (Parts kits available) (See figure 7-47 for BKDN) (ATTACHING PARTS)	1	
-36	AN525-10R12	. SCREW, Machine	3	
	AN960-10L	. WASHER, Flat	6	
	NAS43DD3-16	. SPACER, Sleeve	3	
-37	20072	. BUTTON ASSEMBLY, Plug	1	
-38	25341-3	. UPPER CONTAINER	1	
-39	20395	. WINDOW, Pressure reducer manifold gage	1	
	Notes: 1. P/N 21051-19 contains KEL-F type valve seat.			

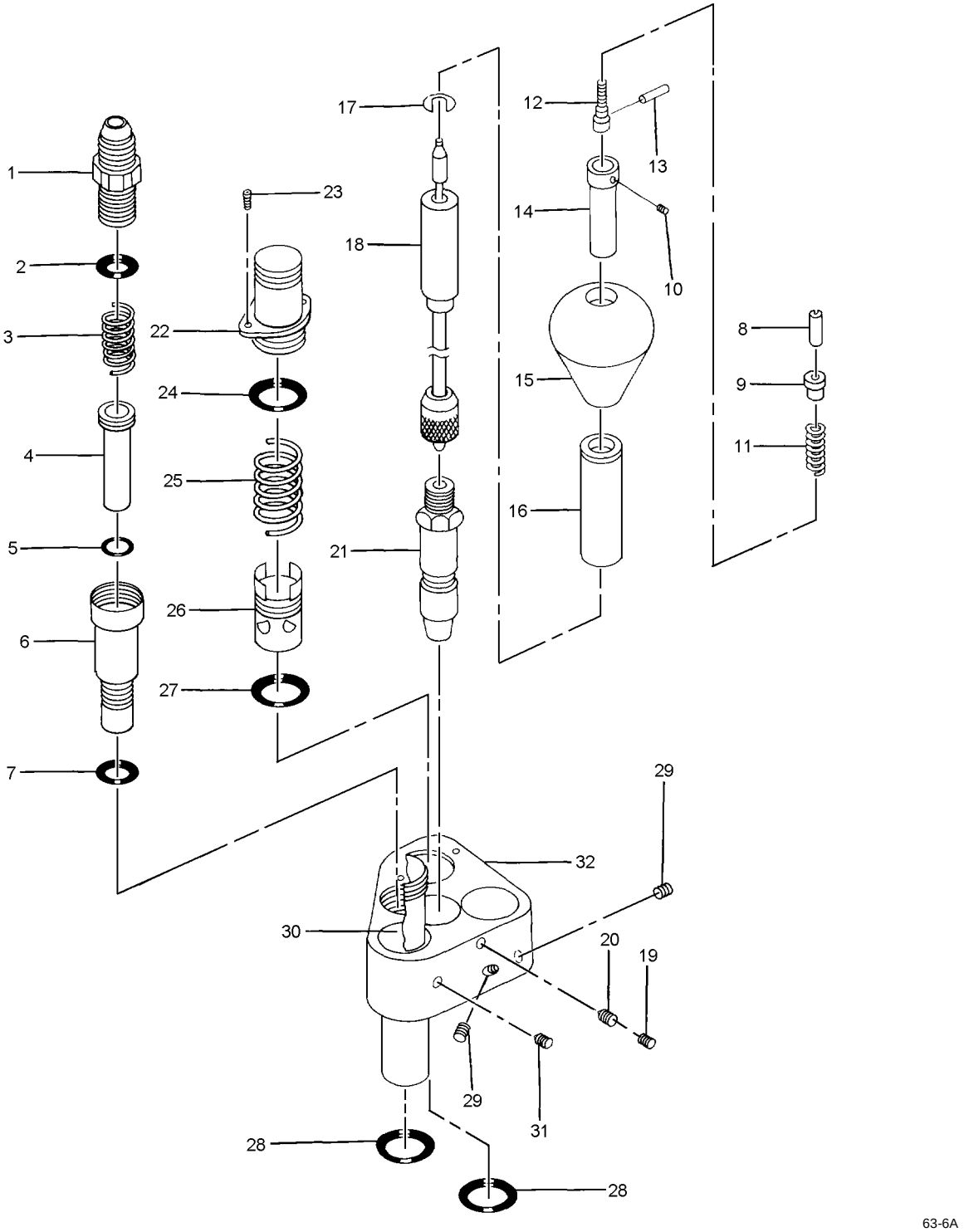


Figure 7-44. Upper Block Assembly-1 (Scott)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-44	21133-7	BLOCK ASSEMBLY, Upper (Parts kit available) .... (See figure 7-41 for NHA)	REF	
	183D100-1	BLOCK ASSEMBLY, Upper (30941) ..... (Parts kit available) (See figure 7-41 for NHA) (Interchangeable with 21133-7)	REF	
-1	10000550	. FITTING, Hose connector	1	
-2	3-4-S417-7	. PACKING, Preformed (02697) (KC)	1	
-3	10000549	. SPRING, Helical compression	1	
-4	10000547	. SLEEVE	1	
-5	2800A5A	. PACKING, Preformed (KC)	1	
-6	10000548	. BODY	1	
-7	3-4-S417-7	. PACKING, Preformed (02697)	1	
	40218-13	. BLOCK SUBASSEMBLY, Upper	1	
	26338-01	. . LANYARD ASSEMBLY, Manual Actuation ...	1	
	26331-01	. . . INDICATOR, Lock assembly	1	
-8	26332	. . . . INDICATOR, Manual release ..... (Apply sealing compound, grade E)	1	
-9	26334	. . . . SLEEVE, Manual release ..... (ATTACHING PARTS)	1	
-10	AN565D2H2	. . . . SETSCREW ..... (Apply sealing compound, grade E) ---*---	1	
-11	26335	. . . . SPRING, Helical compression	1	
-12	26336	. . . . FOLLOWER	1	
-13	26337	. . . . PIN, Lock	1	
-14	26333	. . . . RETAINER, Knob	1	
-15	56494-00	. . . HAND KNOB, Manual release	1	
-16	26343	. . . SLEEVE, Housing	1	
-17	26339	. . . KEY, Shaft	1	
-18	26327-01	. . . RETENTION ASSEMBLY, Hand knob ..... (Apply sealing compound, grade E)	1	
	24475-01	. . LOCK PIN ASSEMBLY, Manual Release ..... (Note 1)	1	
	24475-03	. . LOCK PIN ASSEMBLY, Manual Release ..... (Note 1)	1	
	24475-05	. . LOCK PIN ASSEMBLY, Manual Release ..... (Note 1)	1	
	24475-07	. . LOCK PIN ASSEMBLY, Manual Release ..... (Note 1) (ATTACHING PARTS)	1	
-19	MS59625-27	. . SETSCREW	1	
-20	24484-01	. . SETSCREW ..... ---*---	1	
-21	800289-00	. . . LOCK PIN ASSEMBLY, Blank	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-44-22	19310-00	. . FITTING Hose, vent	1	
		(ATTACHING PARTS)		
-23	19912-00	. . SCREW, Machine	2	
		(Apply sealing compound, grade E)		
		---*---		
-24	2-15S418-6	. . PACKING, Preformed (02697) (KC)	1	
-25	10000815	. . SPRING, Helical, compression	1	
-26	40026	. . VALVE, Check	1	
-27	2-15S418-6	. . PACKING, Preformed (02697) (KC)	1	
-28	2-17B318-7	. . PACKING, Preformed (02697) (KC)	2	
-29	MS51977-29	. . SETSCREW	2	
-30	19970	. . FITTING, Hose, anti-g	1	
		(ATTACHING PARTS)		
-31	MS51977-29	. . SETSCREW	1	
		(Apply sealing compound, grade E)		
		---*---		
-32	56497-00	. . HOUSING, Upper block	1	
	26936	PARTS KIT, Upper block assembly (KC)	1	
	Notes: 1. Select one at assembly.			

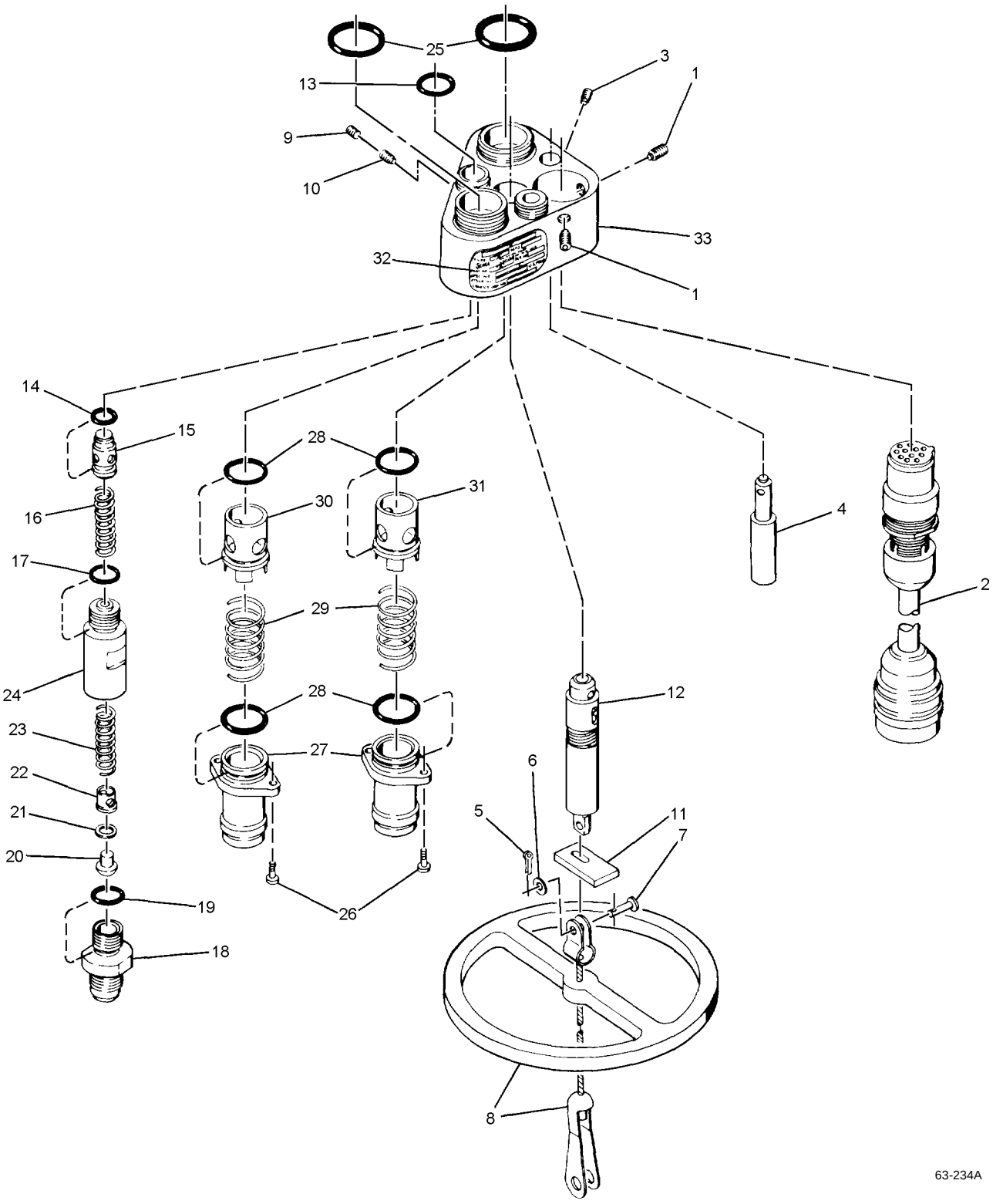


Figure 7-45. Lower Block Assembly-1 (Scott)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-45	21007-5	BLOCK ASSEMBLY, Lower (Parts kit available) . . . . (Altered from 242400-3) (31441) (See figure 7-38 for NHA)	REF	
-1	AN565E8H3	. SETSCREW (KF)	2	
-2	21020-3	. CABLE ASSEMBLY, Survival kit	1	
-3	MS51041-29	. SETSCREW (KF)	1	
-4	24210-3	. PIN ASSEMBLY, Emergency oxygen lock . . . . . (31441)	1	
-5	AN381-2-5	. PIN, Cotter (KF)	1	
-6	AN960C4	. WASHER, Flat (KF)	1	
-7	AN392-9	. PIN, Flathead (KF)	1	
-8	242430	. CABLE ASSEMBLY, Lockpin (31441)	1	
-9	MS51025-27	. SETSCREW (KF)	1	
-10	24484-1	. SETSCREW (31441) (KF)	1	
-11	24471-1	. TAB, Indicator (31441) (KF)	1	
-12	24473-1	. PIN ASSEMBLY, Lower lock (31441) . . . . . (Note 1)	1	
	24473-3	. PIN ASSEMBLY, Lower lock (31441) . . . . . (Note 1)	1	
	24473-5	. PIN ASSEMBLY, Lower lock (31441) . . . . . (Note 1)	1	
	24473-7	. PIN ASSEMBLY, Lower lock (31441) . . . . . (Note 1)	1	
-13	2-12B278-7	. PACKING, O-Ring (45681) (KF)	1	
-14	2-10-76-128	. PACKING, O-Ring (45681) (KF)	1	
-15	242405	. VALVE, Check (31441)	1	
-16	242406	. SPRING (31441) (KF)	1	
-17	3-4-77-018	. PACKING, O-Ring (45681) (KF)	1	
	242450	. VALVE ASSEMBLY, Check (31441)	1	
-18	242449	. . FITTING (31441)	1	
-19	3-4-77-018	. . PACKING, O-Ring (45681) (KF)	1	
-20	242445	. . POPPET (31441) (KF)	1	
-21	242443	. . WASHER (31441) (KF)	1	
-22	242442	. . SLEEVE (31441)	1	
-23	24216-1	. . SPRING	1	
-24	242448	. . BODY (31441)	1	
-25	2-17B278-7	. PACKING, O-Ring (45681) (KF)	2	
-26	MS35457-1	. SCREW, Cap (KF)	4	
-27	242106	. FITTING, Hose vent (31441)	2	
-28	2-15-76-128	. PACKING, O-Ring (45681) (KF)	4	
-29	242108	. SPRING (31441) (KF)	2	
-30	242407	. VALVE, Check (31441)	1	
-31	242415-3	. VALVE, Check (31441)	1	
-32	21184-5	. PLATE, Identification	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-45-33	242402-3	. BLOCK ASSEMBLY, Lower disconnect brazed . . . (31441)	1	
	25518	PARTS KIT, Field repair, lower block	1	
	Notes: 1. Select one at assembly.			

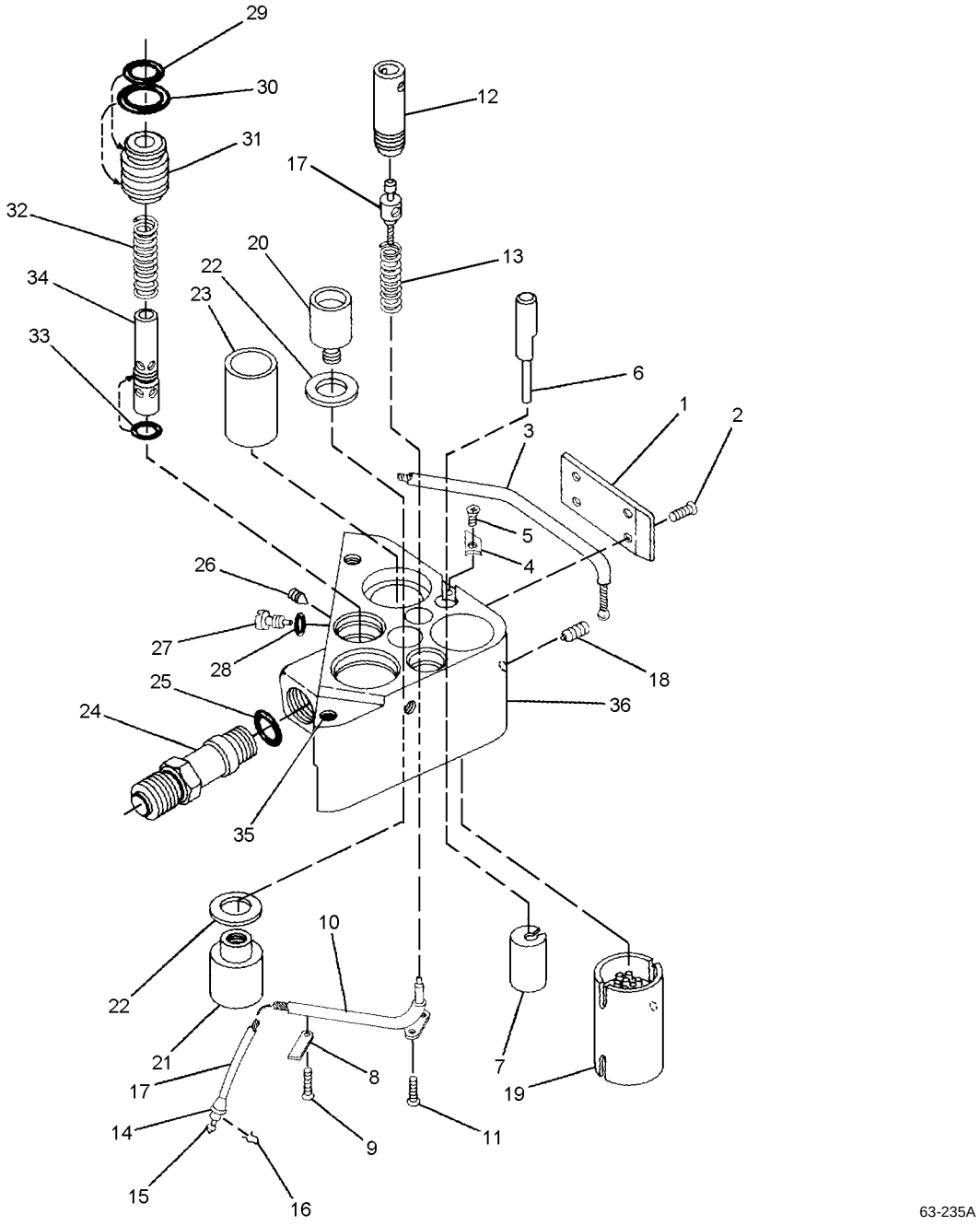


Figure 7-46. Intermediate Block Assembly-1 (Scott)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-46	21006-7	BLOCK ASSEMBLY, Intermediate ..... (Altered from 242300-7) (31441) (See figure 7-43 for NHA)	REF	
-1	242424	. COVER, Conduit (31441) ..... (ATTACHING PARTS)	1	
-2	MS35200-3	. SCREW, Machine ..... ---*---	4	
-3	21025-1	. LANYARD ASSEMBLY, Oxygen actuation	1	
-4	242321	. RETAINER, Ball-lock pin (31441) ..... (ATTACHING PARTS)	1	
-5	MS35190-2	. SCREW, Machine ..... ---*---	1	
-6	242320	. PIN, Ball-lock (31441)	1	
-7	242322-3	. SLEEVE (31441)	1	
-8	242335	. RETAINER, Tube (31441) ..... (ATTACHING PARTS)	1	
-9	MS35190-3	. SCREW, Machine ..... ---*---	1	
-10	242340	. SUPPORT ASSEMBLY, Tube (31441) ..... (ATTACHING PARTS)	1	
-11	MS35190-3	. SCREW, Machine ..... ---*---	2	
-12	242333	. SLEEVE, Interlocking cable (31441)	1	
-13	242309-1	. SPRING (31441)	1	
-14	21162	. FITTING, Tube end	1	
-15	RAL2487-047 125	. TERMINAL, Ball (01976)	1	
-16	20415	. PIN, Cotter	1	
-17	242345	. CABLE & PROBE ASSEMBLY, Block ..... disconnect (31441)	1	
-18	AN565E8H3	. SETSCREW	1	
-19	242380	. CONNECTOR, Electrical receptacle (31441) ..... (Altered from 14086-12P, 17419)	1	
-20	24485-1	. INSERT, Ball-lock pin retention male ..... (31441)	1	
-21	24486-1	. INSERT, Ball-lock pin retention female ..... (31441)	1	
-22	242373	. SHIM (31441)	AR	
-23	24Z302	. SLEEVE, Interlocking (31441)	1	
-24	242336	. CONNECTOR, Oxygen inlet (31441)	1	
-25	3-4-77-018	. PACKING, O-ring (45681)	1	
-26	MS51034-10	. SETSCREW	2	
-27	242306	. SCREW, Sleeve retainer (31441)	1	
-28	2-4S418-6	. PACKING, O-ring (45681)	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-46-29	2-12B278-7	. PACKING, O-ring (45681)	1	
-30	2800C13A	. PACKING, O-ring	1	
-31	242305	. PLUG, Interface (31441)	1	
-32	242304	. SPRING (31441)	1	
-33	2-10S418-6	. PACKING, O-Ring (45681)	1	
-34	242303	. VALVE, Oxygen check (31441)	1	
-35	3591-3CNX285	. INSERT, Screw threaded (26344)	5	
-36	242301-3	. HOUSING, Intermediate block (31441)	1	

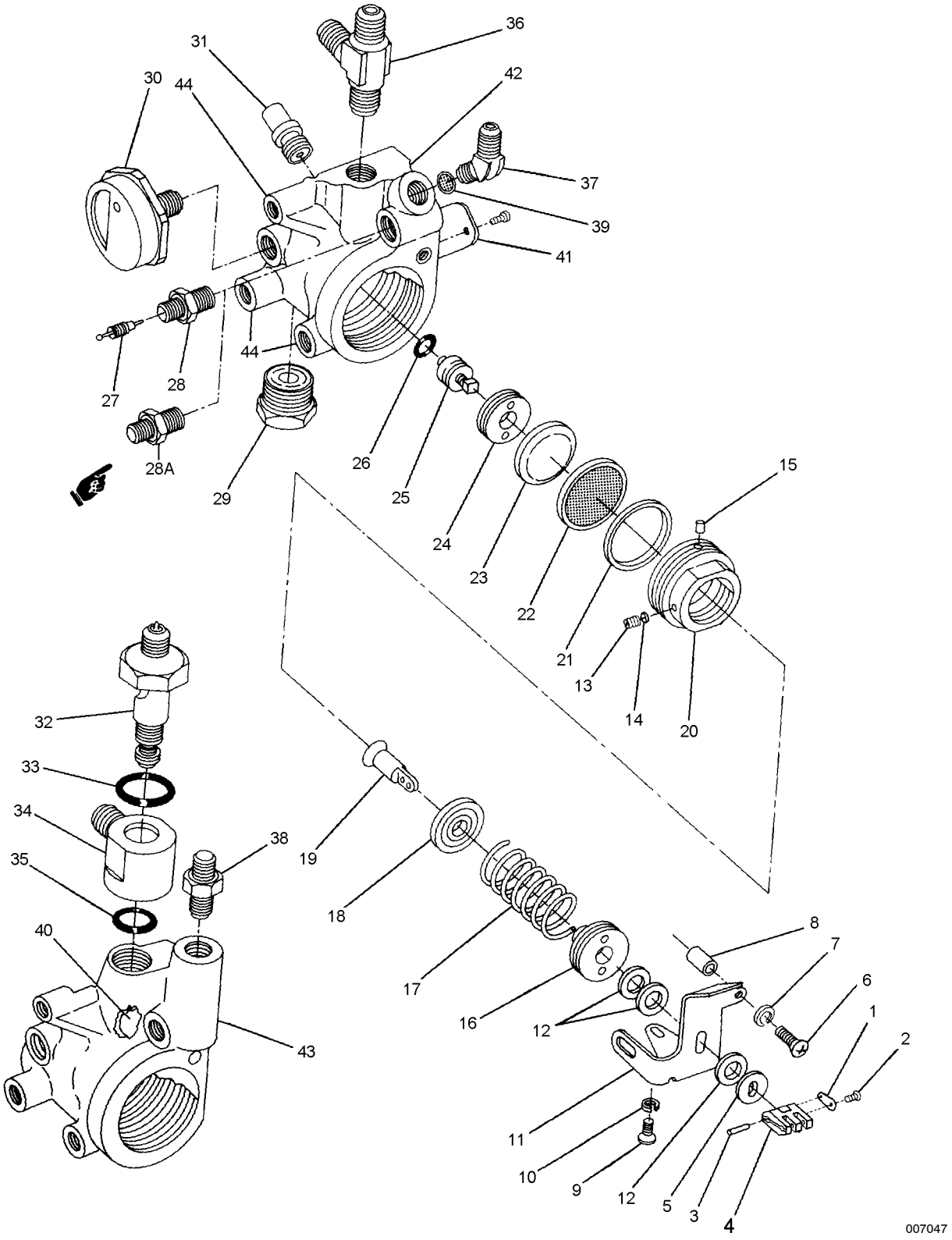


Figure 7-47. Reducer/Manifold Assembly-1 (Scott)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-47	21051-19	REDUCER/MANIFOLD ASSEMBLY ..... (See figure 7-43 for NHA) (Supersedes 21051-13 and 21051-15) (Parts kit available)	REF	
	21051-15	REDUCER/MANIFOLD ASSEMBLY ..... (Alternate for 21051-13) (Parts kit available) (See figure 7-43 for NHA) (Superseded by 21051-19)	REF	
	21051-13	REDUCER/MANIFOLD ASSEMBLY ..... (Alternate for 21051-15) (Superseded by 21051-19)	REF	
-1	22398-1	. SPRING ASSEMBLY, Detent (KF) ..... (ATTACHING PARTS)	1	
-2	AN520-0-2	. SCREW, Machine ..... ---*---	1	
-3	MS171494	. PIN	1	
-4	21030	. ARM, Toggle	1	
-5	22021	. SPACER (KF)	1	
-6	AN515-4R10	. SCREW, Machine (KF)	1	
-7	AN935-4L	. WASHER, Lock (KF)	1	
-8	NAS42DD4-24	. SPACER, Sleeve (KF)	1	
-9	AN515-4R3	. SCREW, Machine (KF)	1	
-10	AN935-4L	. WASHER, Lock (KF)	1	
-11	25342	. BRACKET, Manifold support ..... (Alternate for 21120)	1	
	21120	. BRACLET, Manifold support ..... (Alternate for 25342)	1	
-12	20364	. SPACER, 0.012 in. thick (KF) (Note 1)	AR	
	20364-01	. SPACER, 0.020 in. thick (KF) (Note 1)	AR	
	20364-02	. SPACER, 0.025 in. thick (KF) (Note 1)	AR	
-13	AN565DC6H2	. SETSCREW (KF)	1	
-14	20082	. INSERT, Nylon (KF)	1	
-15	11622-04	. PLUG	1	
-16	20042-3	. RETAINER	1	
-17	8374-1	. SPRING, Adjusting	1	
-18	22293-01	. PLATE, Thrust	1	
-19	22292-03	. PIN, Thrust	1	
-20	20041	. SLEEVE (Torque 30 ±5 in-lbs)	1	
-21	11597	. RING, Slip (KF)	1	
-22	11594	. DIAPHRAGM, Silicone (KC)	1	
-23	20057	. PLATE, Thrust (KF)	1	
-24	20062	. RETAINER (KF)	1	
-25	22276-2	. VALVE ASSEMBLY, Pressure reducer	1	
-26	2800A6A	. PACKING, O-ring (KC)	1	
	221B380-1	. VALVE ASSEMBLY, Filler	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-47-27	20018	. . CORE, Valve (Note 2)	1	
-28	20046	. . BODY, Filler valve	1	
-28A	9120097-27	. FILL VALVE (Note 3)	1	
-29	6552	. PLUG ASSEMBLY, Safety	1	
-30	20430	. GAGE, Oxygen pressure	1	
-31	5043-6	. VALVE ASSEMBLY, Relief	1	
-32	25271-1	. VALVE ASSEMBLY, Surge Control	1	
-33	2827-27	. PACKING, O-ring (KC)	1	
-34	25266	. ELBOW, Universal	1	
-35	2800B5A	. PACKING, O-ring (KC)	1	
-36	24490	. VALVE ASSEMBLY, Surge control (Alternate for AN826-5D)	1	
	AN826-5D	. VALVE ASSEMBLY, Surge control (Alternate for 24490)	1	
-37	AN823-3C	. ELBOW, Tube	1	
-38	AN816-3C	. NIPPLE	1	
-39	8820-2	. FILTER, Screen	1	
-40	22639-11	. FILTER, Screen	1	
-41	11470	. PLATE, Identification (ATTACHING PARTS)	1	
	AN535-00-2	. SCREW, Drive, round head ---*---	2	
-42	21052-3	. BODY ASSEMBLY, Manifold	1	
-43	25264-1	. BODY ASSEMBLY, Manifold	1	
-44	3591-3CNX285	. . INSERT, Screw threaded (26344)	3	
	26490	PARTS KIT, Field repair, reducer/manifold (KF)	1	
	26488	PARTS KIT, Cure date, reducer/manifold (KC)	1	

Notes:
1. Select one at assembly.
2. Use valve core tool P/N 2688 CAGE 27783 NIIN 00-541-4687 for removal of valve core.
3. Fill Valve can be used as an alternate to replace Filler Valve Assembly P/N 221B380-1 or Valve Core P/N 20018 and Body P/N 20046.

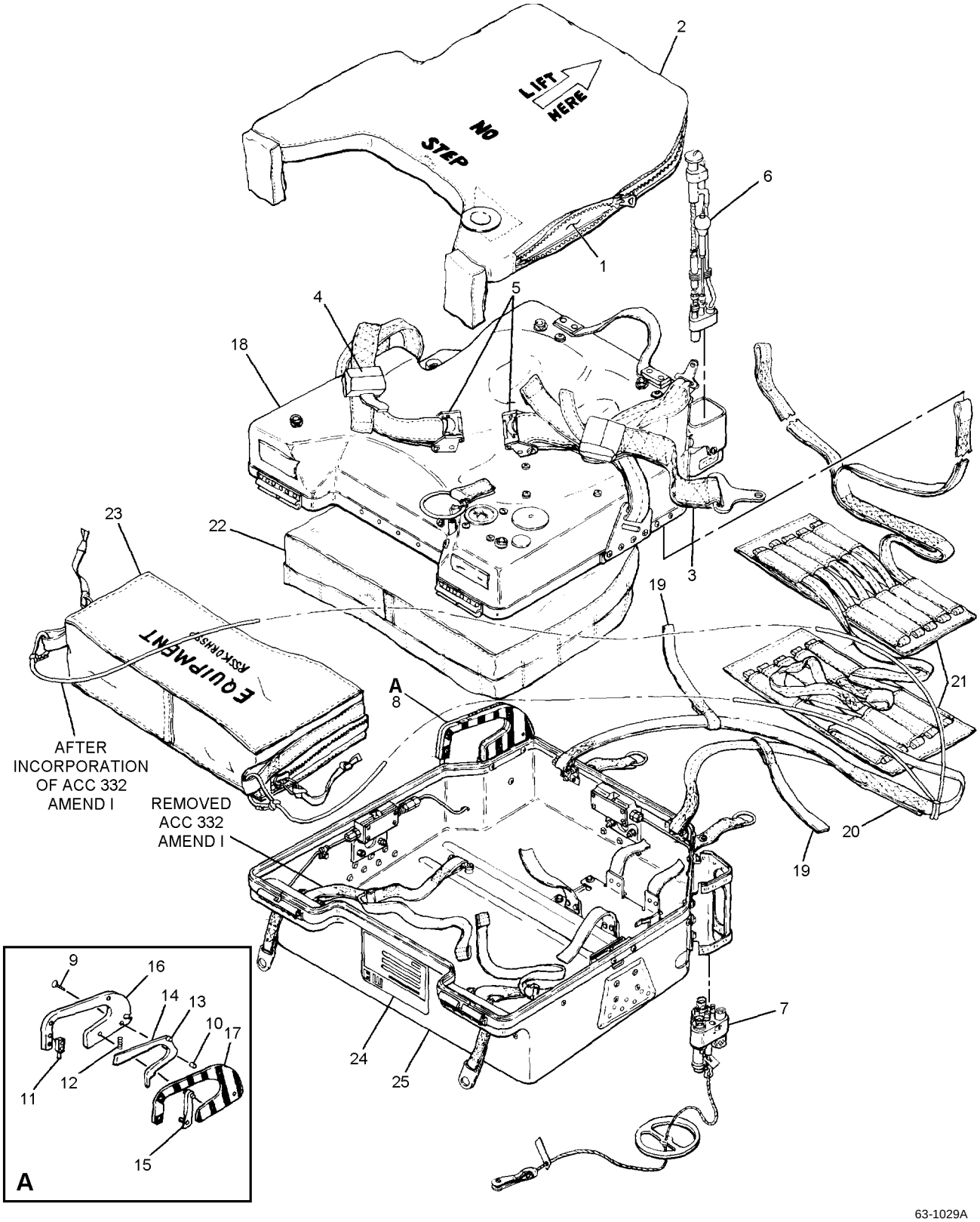


Figure 7-48. Rigid Seat Survival Kit-1A (East/West)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-48	67A73J100-2	SURVIVAL KIT ASSEMBLY RSSK-1A (30003)	1	
	204D670-1	. CUSHION ASSEMBLY	1	
-1	204D601-1	. . CUSHION	1	
-2	204D671-1	. . COVER	1	
-3	67A73E6-11	. HARNESS ASSEMBLY, LH	1	
	64A73E6-12	. HARNESS ASSEMBLY, RH	1	
-4	1195AS114-1	. . ADJUSTER, Restraint harness ..... (After ACC 472)	2	
	184C100-1	. . ADJUSTER, Restraint harness (30941) ..... (Interchangeable with 1195AS114-1 in pairs only)	2	
-5	015-11365-1	. RELEASE ASSEMBLY, Lapbelt (99449) ..... (Note 1)	2	
-6	183D100-1	. BLOCK ASSEMBLY, Upper ..... (See figure 7-49 for BKDN)	1	
	21133-7	. BLOCK ASSEMBLY, Upper (92114) ..... (See figure 7-37 for BKDN) (Interchangeable with 183D100-1)	1	
-7	183D200-1	. BLOCK ASSEMBLY, Lower ..... (See figure 7-50 for BKDN)	1	
	21007-5	. BLOCK ASSEMBLY, Lower (92114) ..... (See figure 7-38 for BKDN) (Interchangeable with 183D200-1)	1	
-8	204D550-1	. HANDLE ASSEMBLY, Release	1	
-9	MS24667-9	. . SCREW, Cap socket hd (Note 2)	5	
-10	204C713-11	. . BUSHING	3	
-11	204C554-11	. . PIN, Anchor	1	
-12	EW51018	. . SPRING, Helical	1	
	10000827	. . SPRING, Helical (92114) ..... (Interchangeable with EW51018)	1	
	204C710-1	. . LATCH ASSEMBLY	1	
-13	204C711-11	. . . PIN	1	
-14	204C712-11	. . . LATCH	1	
-15	204C705-1	. . LINK ASSEMBLY	1	
-16	204D501-12	. . HANDLE, RH	1	
-17	204D501-11	. . HANDLE, LH	1	
-18	204J200-1	. CONTAINER ASSEMBLY, Upper ..... (See figure 7-51 for BKDN)	1	
	36H1323-31	. LANYARD ASSEMBLY, Retaining (30003)	1	
	102D620-3	. LANYARD ASSEMBLY, Retaining (30941)	1	
-19	36H1323-10	. . LANYARD, Equipment container	2	
	102D622-10	. . LANYARD, Equipment container (30941)	2	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-48-20	36H1323-34	. . DROPLINE LANYARD ASSEMBLY	1	
	102D622-3	. . DROPLINE LANYARD (30941)	1	
-21	36H1323-3	. . BOOT ASSEMBLY	2	
	102C621-1	. . BOOT ASSEMBLY (30941)	2	
-22	36D1258-1	. COVER, Raft protective (30003)	1	
	204D610-1	. COVER, Raft protection (30941)	1	
-23	68A77D4-1	. CONTAINER ASSEMBLY, Equipment . . . . . (80206)	1	
	102D615-1	. CONTAINER ASSEMBLY, Equipment . . . . . (30941)	1	
-24	204C912-11	. NAMEPLATE	1	
-25	204J400-1	. CONTAINER ASSEMBLY, Lower . . . . . (See figure 7-54 for BKDN)	1	
	Notes: 1. When replacing lapbelt assembly, apply sealing, locking, and retaining compound, MIL-S-22473, to shoulder screws. 2. Apply Sealing Compound Grade E.			

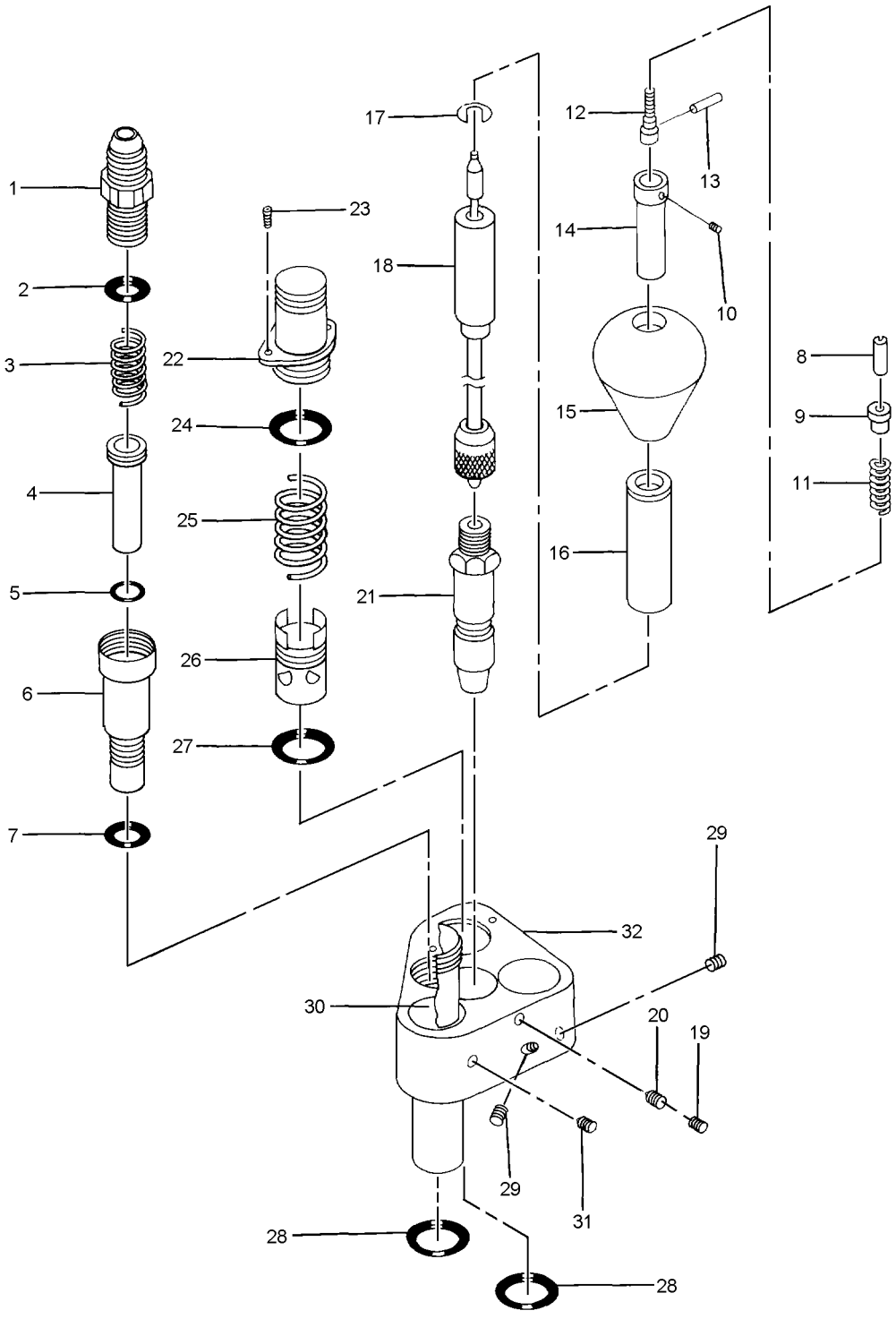


Figure 7-49. Upper Block Assembly (East/West)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-49	183D100-1	BLOCK ASSEMBLY, Upper (See figure 7-48 for NHA)	REF	
	21133-7	BLOCK ASSEMBLY, Upper (92114) (See figure 7-48 for NHA) (Interchangeable with 183D100-1)	REF	
-1	183C112-11	. FITTING, Hose connector	1	
-2	EW62007	. PACKING, Preformed	1	
-3	EW51012	. SPRING, Helical compression	1	
-4	183C113-11	. SLEEVE	1	
-5	EW62008	. PACKING, Preformed	1	
-6	183C114-11	. BODY	1	
-7	EW62007	. PACKING, Preformed	1	
	183C115-1	. BLOCK SUBASSEMBLY, Upper	1	
	183C116-1	. . LANYARD ASSEMBLY, Manual actuation	1	
	183C117-1	. . . INDICATOR, Lock assembly	1	
-8	183B118-11	. . . . INDICATOR, Manual release (Note 1)	1	
-9	183B119-11	. . . . SLEEVE, Manual release (ATTACHING PARTS)	1	
-10	AN565D2H2	. . . . SETSCREW, Hexagon (Note 1) ---*---	1	
-11	EW51013	. . . . SPRING, Helical compression	1	
-12	183B120-11	. . . . FOLLOWER	1	
-13	183B121-11	. . . . PIN, Lock	1	
-14	183C122-11	. . . . RETAINER, Knob	1	
-15	183C123-11	. . . HAND KNOB, Manual release	1	
-16	183C124-11	. . . SLEEVE, Housing	1	
-17	183B125-11	. . . KEY, Shaft	1	
-18	183D126-11	. . . RETENTION ASSEMBLY, Hand knob (Note 1)	1	
	183D127-1	. . LOCK PIN ASSEMBLY, Manual release (ATTACHING PARTS)	1	
-19	MS51965-27	. . SETSCREW		
-20	EW41010	. . SETSCREW	1	
-21	183D128-1	. . . LOCK PIN ASSEMBLY, Blank	1	
-22	183C203-11	. . FITTING, Hose vent (ATTACHING PARTS)	1	
-23	183B108-11	. . SCREW, Machine (Note 1) ---*---	2	
-24	EW62009	. . PACKING, Preformed	1	
-25	EW51014	. . SPRING, Helical compression	1	
-26	183C204-11	. . VALVE, Check	1	
-27	EW62009	. . PACKING, Preformed	1	
-28	EW62010	. . PACKING, Preformed	2	
-29	MS51977-29	. . SETSCREW	2	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-49-30	183C129-11	. . FITTING, Hose anti-g	1	
		(ATTACHING PARTS)		
-31	MS51977-29	. . SETSCREW (Note 1)	1	
		---*---		
-32	183D130-11	. . HOUSING, Upper block	1	
	Notes: 1. Apply Sealing Compound Grade E.			

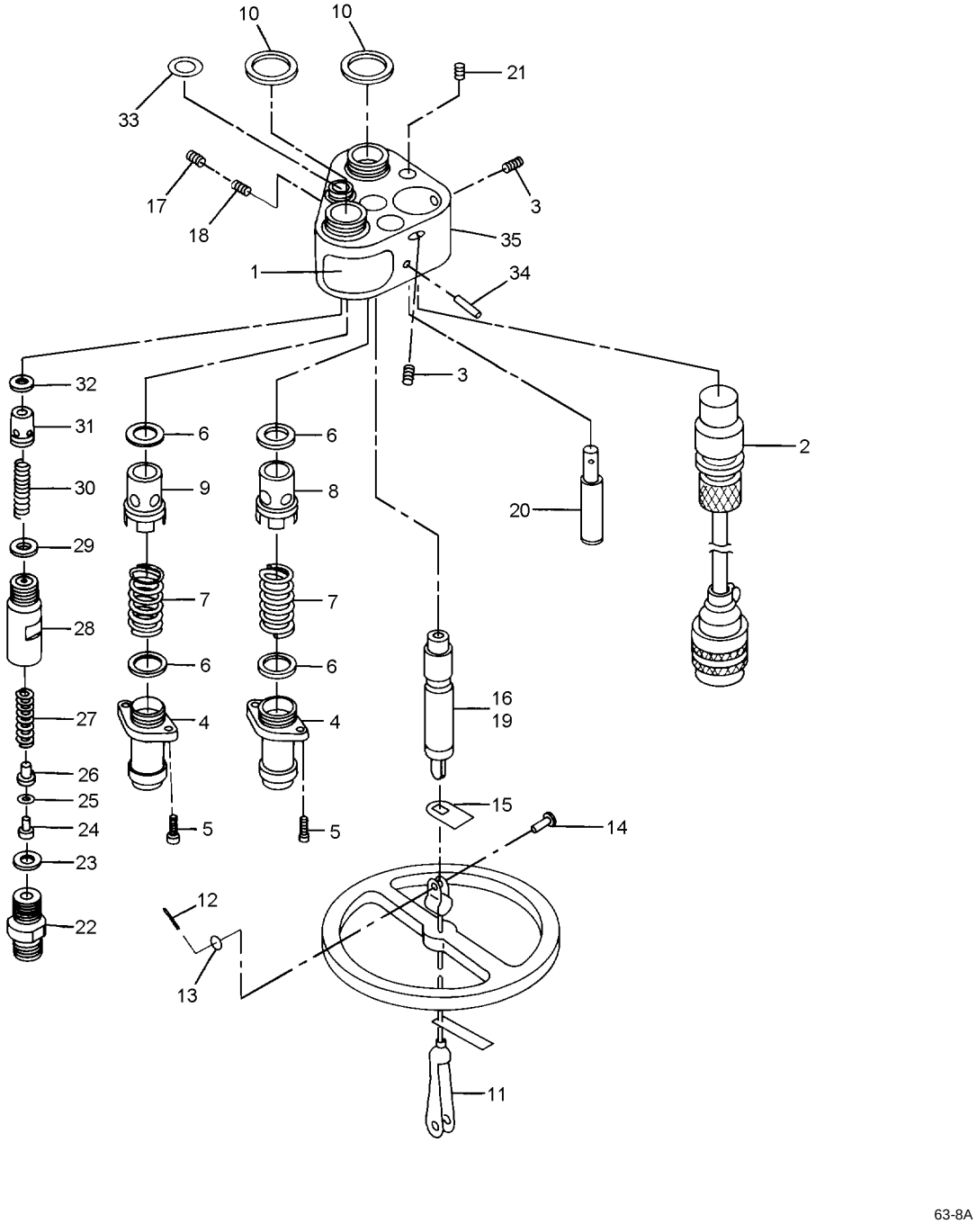
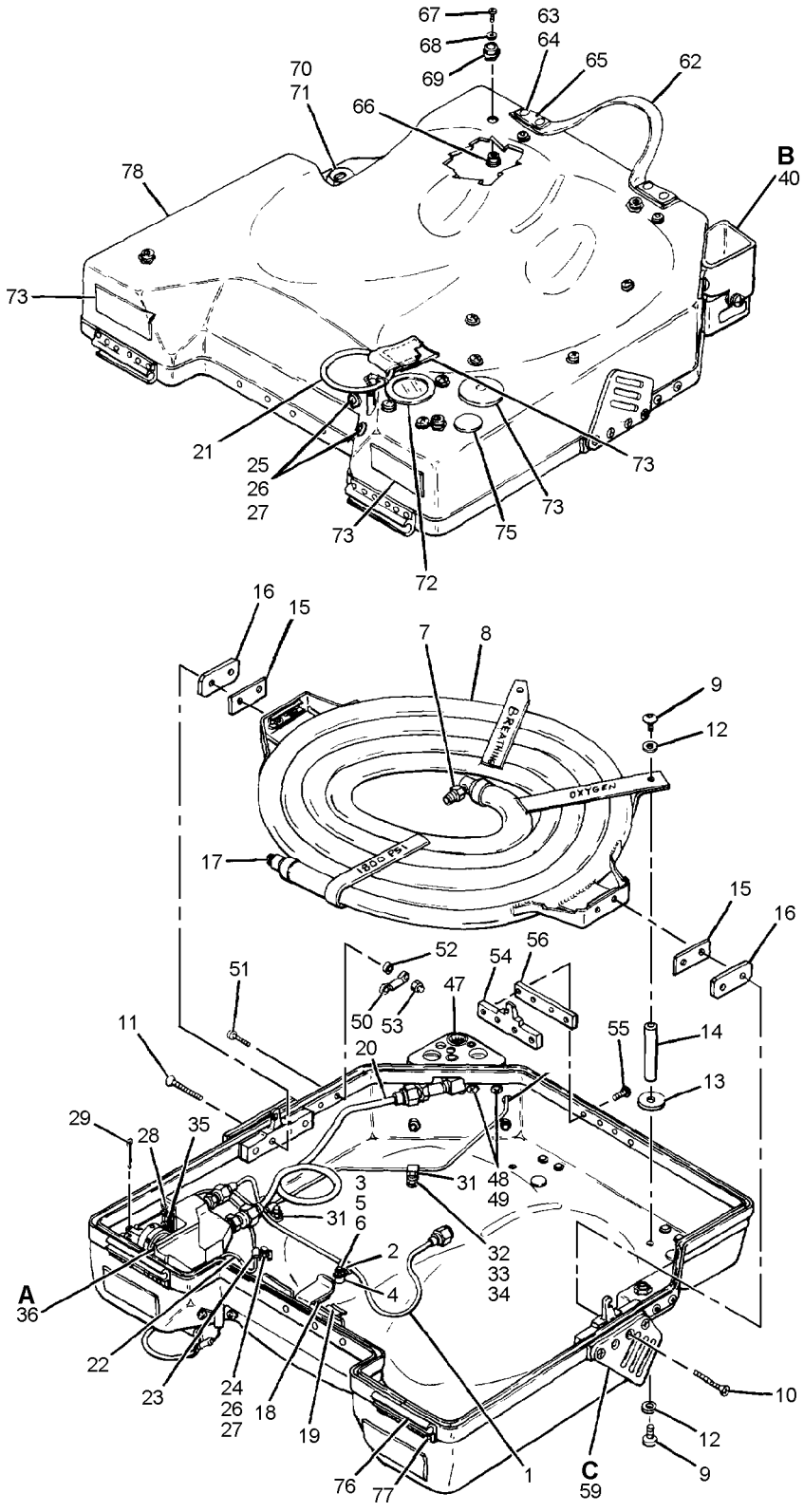


Figure 7-50. Lower Block Assembly (East/West)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-50	183D200-1	BLOCK ASSEMBLY, Lower ..... (See figure 7-48 for NHA)	REF	
	21007-5	BLOCK ASSEMBLY, Lower (92114) ..... (See figure 7-48 for NHA) (Interchangeable with 183D200-1)	REF	
-1	183B201-11	. PLATE, Identification	1	
-2	183C202-11	. CABLE ASSEMBLY, Electrical	1	
	183C202-13	. BLOCK SUBASSEMBLY, Lower	1	
-3	MS51977-29	. . SETSCREW	2	
-4	183C203-11	. . FITTING, Hose ..... (ATTACHING PARTS)	2	
-5	EW41011	. . SCREW, Machine (Note 1) ..... ---*---	2	
-6	EW62009	. . PACKING, Preformed	4	
-7	EW51014	. . SPRING, Helical compression	2	
-8	183C204-11	. . VALVE, Check	1	
-9	183C205-11	. . VALVE, Check	1	
-10	EW62010	. . PACKING, Preformed	2	
-11	183B104-1	. . CABLE ASSEMBLY, Lock pin ..... (ATTACHING PARTS)	1	
-12	AN381-2-5	. . PIN	1	
-13	AN960C4	. . WASHER, Flat	1	
-14	MS20392-1C9	. . PIN ..... ---*---	1	
-15	183B102-11	. . INDICATOR, Lock pin	1	
-16	183C206-1	. . PIN, Lock assembly (Note 2)	1	
	183C206-3	. . PIN, Lock assembly (Note 2)	1	
	183C206-5	. . PIN, Lock assembly (Note 2)	1	
	183C206-7	. . PIN, Lock assembly (Note 2) ..... (ATTACHING PARTS)	1	
-17	MS51965-27	. . SETSCREW	1	
-18	EW41010	. . SETSCREW ..... ---*---	1	
-19	183B207-1	. . PIN, Lock assembly blank	1	
-20	183C208-1	. . PIN, Lock assembly ..... (ATTACHING PARTS)	1	
-21	MS51977-29	. . SETSCREW (Note 1) ..... ---*---	1	
	183B209-1	. . CHECK VALVE ASSEMBLY	1	
-22	183C210-11	. . . FITTING	1	
-23	EW62007	. . . PACKING, Preformed	1	
-24	183B211-11	. . . POPPET	1	
-25	EW43002	. . . WASHER	1	
-26	183B212-11	. . . SLEEVE	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-50-27	EW51015	. . . SPRING, Helical compression	1	
-28	183C213-11	. . . BODY	1	
-29	EW62007	. . PACKING, Preformed	1	
-30	EW51016	. . SPRING, Helical compression	1	
-31	183C214-11	. . VALVE, Check	1	
-32	EW62011	. . PACKING, Preformed	1	
-33	EW62012	. . PACKING, Preformed	1	
-34	MS171436	. . PIN, Spring	1	
-35	183D215-11	. . BODY	1	
	Notes: 1. Apply Sealing Compound EW31004. 2. Select one at assembly.			



63-1032A

Figure 7-51. Upper Container Assembly (East/West) (Sheet 1 of 2)

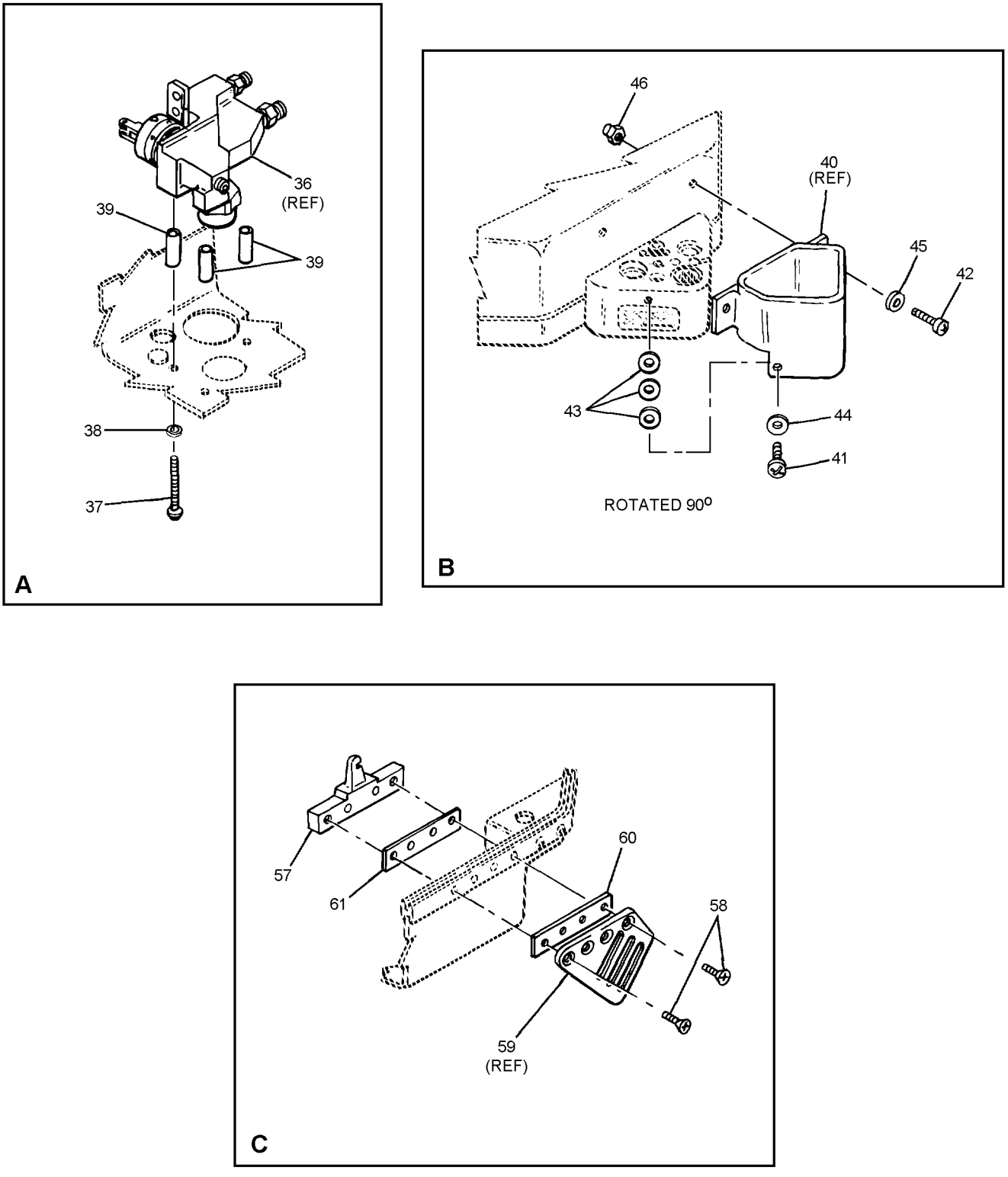


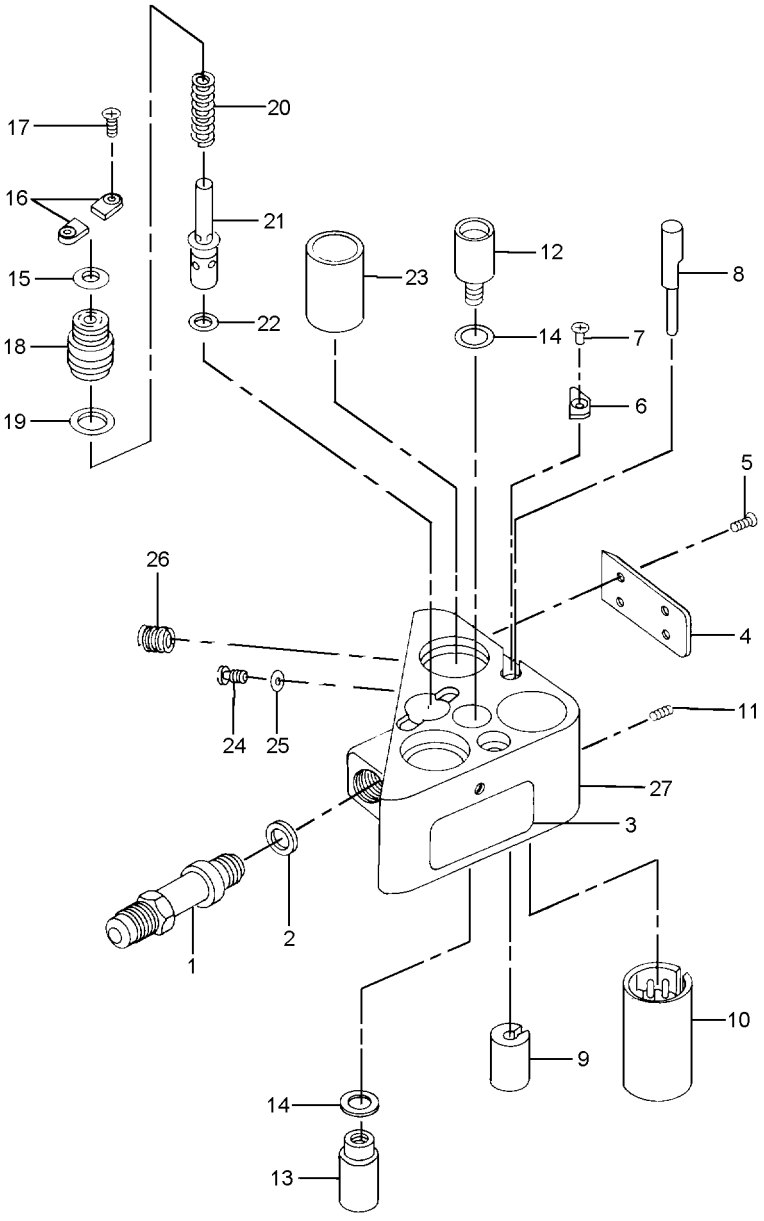
Figure 7-51. Upper Container Assembly (East/West) (Sheet 2 of 2)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-51	204J200-1	CONTAINER ASSEMBLY, Upper ..... (See figure 7-48 for NHA)	REF	
-1	204C480-1	. TUBE ASSEMBLY ..... (ATTACHING PARTS)	1	
-2	EW46002	. CLAMP	1	
	58468	. CLAMP (92114) ..... (Interchangeable with EW46002)	1	
-3	AN525-832R9	. SCREW, Machine pan hd	1	
-4	204B832-17	. WASHER, Flat	1	
	2832	. WASHER, Flat (92114) ..... (Interchangeable with 204B832-17)	1	
-5	AN960-8	. WASHER, Flat	1	
-6	MS20364-832A	. NUT, Self-locking ..... ---*---	1	
-7	AN816-3C	. NIPPLE, Flared tube	1	
-8	MS90389-10	. CYLINDER ASSEMBLY	1	
	204D301-1	. CYLINDER ASSEMBLY (30941) ..... (ATTACHING PARTS)	1	
-9	EW41009	. SCREW, Machine	4	
-10	MS51960-71	. SCREW, Mach. flat	2	
-11	MS51960-72	. SCREW, Mach. flat	2	
-12	AN960-416L	. WASHER, Flat	4	
-13	AN970-4	. WASHER, Flat	2	
-14	204C424-21	. SPACER	2	
-15	204C424-11	. SPACER	AR	
	204C424-13	. SPACER	AR	
	204C424-15	. SPACER	AR	
	204C424-17	. SPACER	AR	
	204C424-19	. SPACER	AR	
-16	204C536-11	. SHIM ..... ---*---	2	
-17	AN932-S3	. . PLUG	1	
-18	204C626-11	. PAD, Pressure sensitive	1	
	10000942	. PAD, Pressure sensitive (92114) ..... (Interchangeable with 204C626-11)	1	
-19	204C627	. PAD, Pressure sensitive	1	
	10000943	. PAD, Pressure sensitive (92114) ..... (Interchangeable with 204C627)	1	
-20	204D270-1	. TUBE ASSEMBLY	1	
-21	220C102-1	. RELEASE ASSEMBLY	1	
-22	204D620-1	. ACTUATOR ASSEMBLY ..... (ATTACHING PARTS)	1	
-23	EW46001	. CLAMP	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-51	58250	. CLAMP (92114) ..... (Interchangeable with EW46001)	1	
-24	AN525-832R7	. SCREW, Mach.	1	
-25	MS35216-41	. SCREW	2	
-26	AN960-8	. WASHER, Flat	3	
-27	MS20364-832A	. NUT, Self-locking	3	
-28	EW51011	. SPRING CLIP	1	
	20415	. SPRING CLIP (92114) ..... (Interchangeable with EW51011)	1	
-29	MS24665-87	. PIN, Cotter ..... ---*---	1	
-30	204D275-1	. LANYARD ASSEMBLY ..... (ATTACHING PARTS)	1	
-31	EW46001	. CLAMP	2	
	58250	. CLAMP (92114) ..... (Interchangeable with EW46001)	2	
-32	AN525-832R7	. SCREW, Mach.	2	
-33	AN960-8	. WASHER, Flat	2	
-34	MS20364-832A	. NUT, Self-locking	2	
-35	EW51011	. SPRING CLIP	1	
	20415	. SPRING CLIP (92114) ..... (Interchangeable with EW51011) ---*---	1	
-36	204D810-1	. REDUCER/MANIFOLD ASSEMBLY ..... (See figure 7-53 for BKDN) (ATTACHING PARTS)	1	
-37	AN525-10R12	. SCREW, Mach.	3	
-38	AN960-10	. WASHER, Flat	3	
-39	NAS43DD3-16	. SPACER ..... ---*---	3	
-40	204D518-13	. GUIDE ..... (ATTACHING PARTS)	1	
-41	MS35216-41	. SCREW, Mach pan hd	2	
-42	AN525-832R8	. SCREW, Mach.	2	
-43	AN960-8	. WASHER, Flat	6	
-44	AN936A8	. WASHER, Tooth-lock	2	
-45	AN960-8	. WASHER, Flat	2	
-46	MS20364-832A	. NUT, Self-locking ..... ---*---	2	
-47	204D250-1	. BLOCK ASSEMBLY, Intermediate ..... (See figure 7-52 for BKDN)	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-51	21006-9	. BLOCK ASSEMBLY, Intermediate (92114) ..... (See figure 7-52 for BKDN) (Interchangeable with 204D250-1) (ATTACHING PARTS)	1	
-48	MS35217-55	. SCREW, Mach pan hd	3	
-49	AN960PD10L	. WASHER, Flat ..... ---*---	3	
-50	204C423-11	. BRACKET, Footman	2	
	55457	. BRACKET, Footman (92114) ..... (Interchangeable with 204C423-11) (ATTACHING PARTS)	2	
-51	EW41007	. SCREW, Machine	2	
-52	204B422-11	. SPACER	2	
-53	EW42009	. NUT ..... ---*---	2	
-54	204C515-11	. HOOK, Lid lock rear ..... (ATTACHING PARTS)	1	
-55	EW41005	. SCREW, Button hd (Note 1)	2	
-56	204C225-1	. SPACER	1	
	10000516	. SPACER (92114) ..... (Interchangeable with 204C225-1) ---*---	1	
-57	204C515-11	. HOOK, Lid lock ..... (ATTACHING PARTS)	2	
-58	MS51960-68	. SCREW, Mach.	2	
-59	204C211-11	. PLATE, LH	1	
	204C212-11	. PLATE, RH	1	
-60	204C214-11	. SPACER	1	
	23204-1	. SPACER (92114) ..... (Interchangeable with 204C214-11)	1	
-61	204C225-1	. SPACER	1	
	10000516	. SPACER (92114) ..... (Interchangeable with 204C225-1) ---*---	1	
-62	204C215-11	. WEBBING, Handle	1	
	27490	. WEBBING, Handle (92114) ..... (Interchangeable with 204C215-11) (ATTACHING PARTS)	1	
-63	MS20480A4-7	. RIVET	4	
-64	AN960PD6	. WASHER, Flat	4	
-65	204C213-11	. RETAINER	2	
	21190	. RETAINER (92114) ..... (Interchangeable with 204C213-11) ---*---	2	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-51-66	AN227-68B	. FASTENER, Snap ..... (ATTACHING PARTS)	4	
-67	EW41002	. SCREW, Panhead cres (No. 3-56 x 3/8 lg)	1	
-68	NAS620-5L	. WASHER	1	
-69	AN227-61	. FASTENER, Snap ..... ---*---	1	
-70	204C226-11	. SOCKET (Note 1)	1	
	10000711	. SOCKET (92114) ..... (Interchangeable with 204C226-11) (Note 1) (ATTACHING PARTS)	1	
-71	102C701-15	. NUT, Lock ..... ---*---	1	
-72	204B201-11	. WINDOW (Note 2)	1	
-73	204C216-11	. TAPE, Pile (Note 3)	3	
-74	102C279-1	. BUTTON ASSEMBLY	1	
-75	EW58001	. PLUG, Button	1	
	57685	. PLUG, Button (92114) ..... (Interchangeable with EW58001)	1	
-76	204D125-11	. HINGE ..... (ATTACHING PARTS)	2	
-77	MS20407AD3-8	. RIVET, Solid universal hd ..... ---*---	6	
-78	204J222-1	. LID ASSEMBLY	1	
	Notes: 1. Apply Sealing Compound Grade C. 2. Apply Bonding Agent R-313. 3. Apply Cement EC-780.			



63-10A

Figure 7-52. Intermediate Block Assembly (East/West)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-52	204D250-1	BLOCK ASSEMBLY, Intermediate ..... (Parts kit available) (See figure 7-51 for NHA)	REF	
	21006-9	BLOCK ASSEMBLY, Intermediate (92114) ..... (Parts kit available) (See figure 7-51 for NHA) (Interchangeable with 204D250-1)	REF	
-1	204C278-11	. CONNECTOR, Oxygen	1	
-2	EW62005	. PACKING, Preformed	1	
-3	204C902-11	. PLATE, Identification	1	
	204D260-1	. BLOCK SUBASSEMBLY, Intermediate	1	
-4	204B290-11	. . COVER, Conduit ..... (ATTACHING PARTS)	1	
-5	MS51959-3	. . SCREW, Machine ..... ---*---	4	
-6	204B279-11	. . RETAINER ..... (ATTACHING PARTS)	1	
-7	MS35190-210	. . SCREW, Machine (Note 1) ..... ---*---	1	
-8	204B277-11	. . PIN, Lock	1	
-9	204B281-11	. . SLEEVE	1	
-10	204D266-1	. . CONNECTOR, Electrical	1	
	55056	. . CONNECTOR, Electrical (92114) ..... (Interchangeable with 204D266-1) (ATTACHING PARTS)	1	
-11	MS51977-29	. . SETSCREW ..... ---*---	1	
-12	204C263-11	. . INSERT, Male (Note 2)	1	
-13	204D261-11	. . INSERT, Female	1	
-14	204D262-11	. . SHIM	AR	
-15	EW62003	. . PACKING, Preformed	1	
-16	204B299-11	. . RETAINER ..... (ATTACHING PARTS)	2	
-17	MS35190-210	. . SCREW, Machine (Note 1) ..... ---*---	1	
-18	204D264-11	. . PLUG, Interface	1	
-19	EW62001	. . PACKING, Preformed	1	
-20	EW51010	. . SPRING, Helical compression	1	
	15299	. . SPRING, Helical, compression (92114) ..... (Interchangeable with EW51010)	1	
-21	204B282-11	. . CHECK VALVE	1	
-22	EW62004	. . PACKING, Preformed	1	
-23	204B291-11	. . SLEEVE ..... (ATTACHING PARTS)	1	
-24	204B280-11	. . SCREW, Machine ..... ---*---	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-52-25	EW62006	. . PACKING, Preformed	1	
-26	MS21209F1-15	. . INSERT, Screw thd	3	
-27	204D265-11	. . HOUSING	1	
	EW204K-7	PARTS KIT, Intermediate Block Assembly	1	
	Notes: 1. Apply Sealing Compound Grade E. 2. Apply Sealing Compound Grade D.			

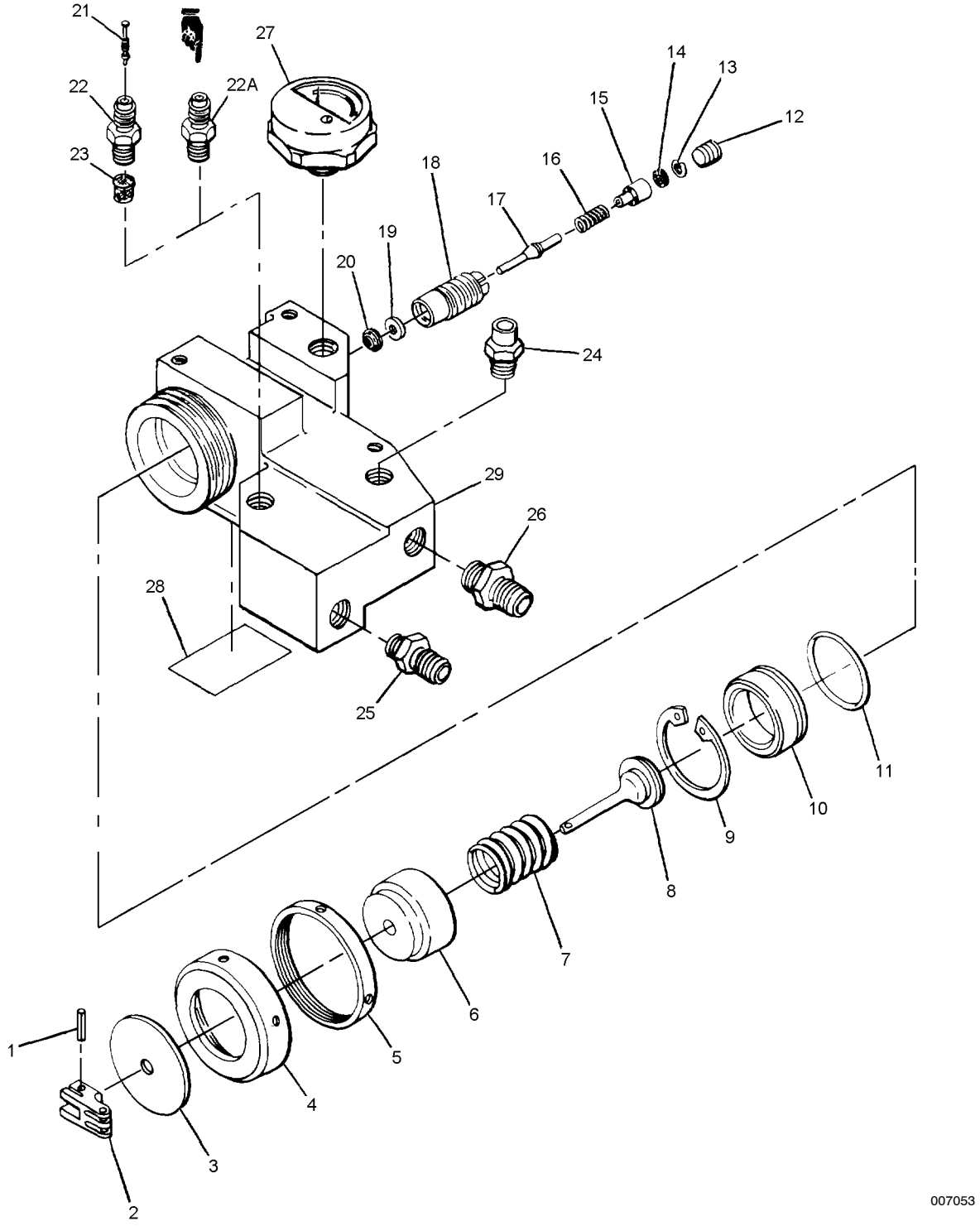


Figure 7-53. Reducer/Manifold Assembly (East/West)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-53	204D810-1	REDUCER/MANIFOLD ASSEMBLY ..... (See figure 7-51 for NHA)	REF	
-1	MS171435	. SPRING PIN	1	
-2	102C303-15	. TOGGLE	1	
-3	233B823-11	. SPACER	1	
-4	233C829-11	. CAP, Adjust	1	
-5	233C830-11	. LOCK RING	1	
-6	233C820-11	. GUIDE, Piston	1	
-7	233B831-11	. SPRING, Reference	1	
-8	102C824-11	. PLUNGER	1	
-9	EW48001	. RING, Retaining	1	
-10	102C821-11	. PISTON (Note 1)	1	
-11	MS28775-117	. O-RING (Note 2)	1	
-12	AN932-S3	. PLUG, Countersink hex hd pipe (Note 3)	1	
-13	MS16625-4025	. RING, Retaining	1	
-14	102B819-11	. FILTER (Note 4)	1	
-15	102B818-11	. GUIDE, Poppet	1	
-16	102B814-11	. SPRING, Poppet	1	
-17	102B817-11	. POPPET	1	
-18	102C815-11	. RETAINER (Note 5)	1	
-19	102B828-11	. STOP, Back up ring (Note 6)	1	
-20	102B816-11	. SEAT	1	
	221B380-1	. VALVE ASSEMBLY, Oxygen filler	1	
-21	EW63001	. . VALVE CORE (Note 7)	1	
-22	102C383-11	. . VALVE BODY (Note 3)	1	
-22A	9120097-27	. FILL VALVE (Note 8)	1	
-23	204B419-11	. FILTER	1	
-24	EW63002	. RELIEF VALVE (Note 3)	1	
-25	AN816-3J	. NIPPLE, Flared tube (Note 3)	1	
-26	AN816-5J	. NIPPLE, Flared tube (Note 3)	1	
-27	EW68001	. GAGE, Oxygen (Note 2)	1	
	20430	. GAGE, Oxygen (92114) ..... (Interchangeable with EW68001) (Note 3)	1	
-28	204B827-11	. PLATE IDENTIFICATION	1	
-29	204D811-11	. REDUCER/MANIFOLD, Machined	1	

Notes:
1. Before inserting piston liberally lubricate bore that contacts O-ring using Krytox 240AZ.
2. Apply a light coat of Krytox 240AZ to O-rings.
3. To assemble pipe threaded parts use Teflon tape 1/2 in. wide conforming to MIL-T-27730 coating to be applied according to instructions specified in MIL-T-27730.
4. Install coarse mesh near side.

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
	Notes (cont): 5. Torque retainer to 32-35 lbs after assembly. 6. Position V notch to backup ring stop against face of seat. 7. Fully seat valve core into valve body, torque to 5 lb-in. Use valve core tool P/N 2688 (27783) NIIN 00-541-4687 for removal of valve core. 8. Fill Valve can be used as an alternate to replace Filler Valve Assembly P/N 221B380-1 or Valve Core P/N EW63001 and Body P/N 102C383-11. Filter P/N 204B419-1 must be removed if using Fill Valve P/N 9120097-27.			

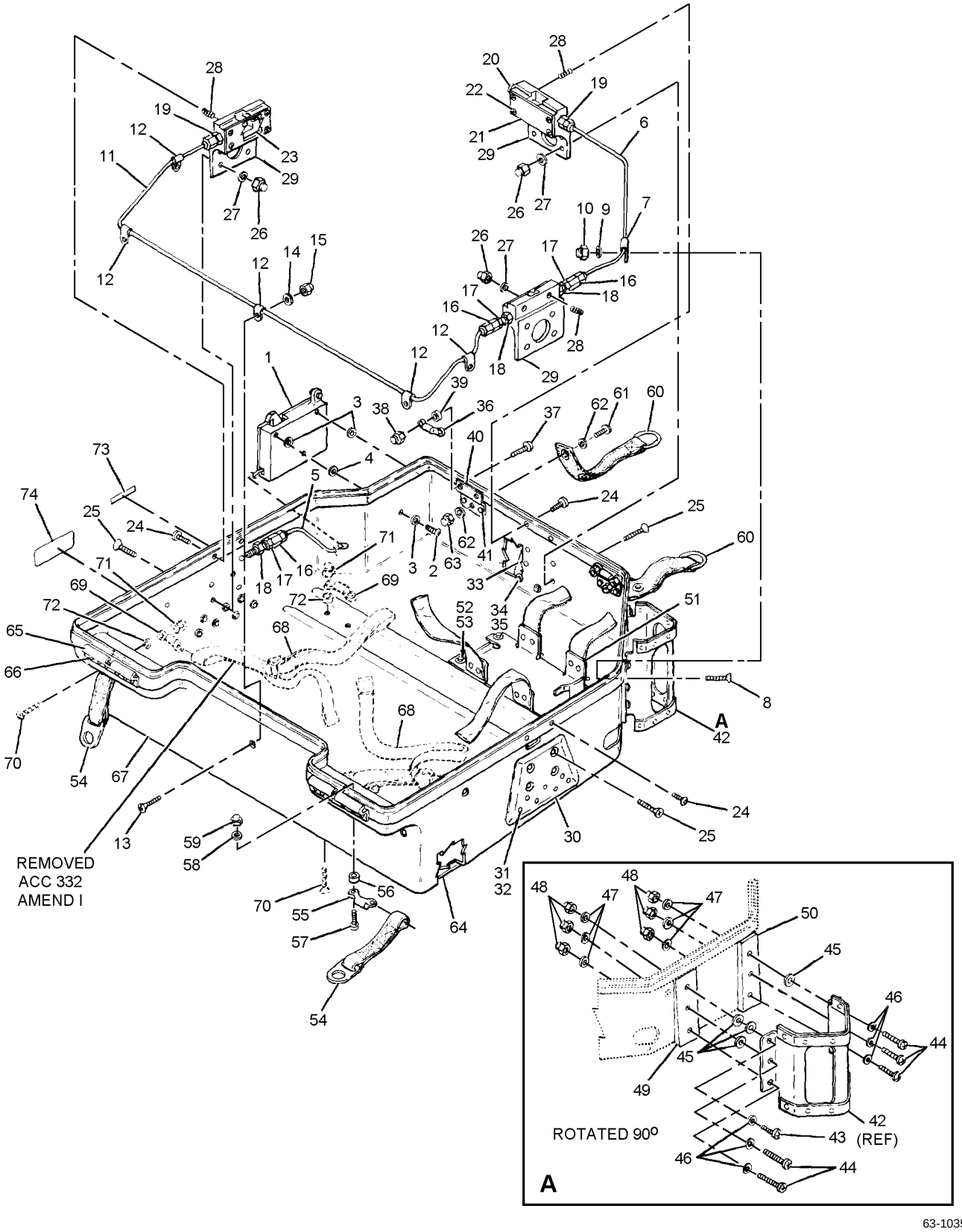


Figure 7-54. Lower Container Assembly (East/West)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-54	204J400-1	CONTAINER ASSEMBLY, Lower	REF	
		(See figure 7-48 for NHA)		
-1	204D580-1	. LID LOCK RELEASE ASSEMBLY	1	
		(See figure 7-55 for BKDN)		
		(ATTACHING PARTS)		
-2	EW41005	. SCREW, Button head	3	
-3	AN960PD10L	. WASHER, Flat	5	
-4	AN960C10	. WASHER, Flat	1	
		---*---		
-5	204C570-1	. CONDUIT ASSEMBLY	1	
-6	204C560-1	. CONDUIT ASSEMBLY	1	
		(ATTACHING PARTS)		
-7	EW46001	. CLAMP	1	
	58250	. CLAMP (92114)	1	
		(Interchangeable with EW46001)		
-8	AN505C6R7	. SCREW, Mach flat hd	1	
-9	AN960C6L	. WASHER, Flat	1	
-10	EW42009	. NUT, Cap	1	
		---*---		
-11	204C289-1	. CONDUIT ASSEMBLY	1	
		(ATTACHING PARTS)		
-12	EW46001	. CLAMP	5	
	58250	. CLAMP (92114)	1	
		(Interchangeable with EW46001)		
-13	AN505C6R7	. SCREW, Mach flat hd	5	
-14	AN960C6L	. WASHER, Flat	5	
-15	EW42009	. NUT, Cap	5	
		---*---		
-16	102C525-11	. NUT	3	
	19561	. NUT (92114)	3	
		(Interchangeable with 102C525-11)		
-17	102C701-15	. NUT	3	
-18	102C527-11	. NIPPLE	3	
	19974	. NIPPLE (92114)	3	
		(Interchangeable with 102C527-11)		
-19	102C527-13	. NIPPLE	2	
	19974-1	. NIPPLE (92114)	2	
		(Interchangeable with 102C527-13)		
-20	102C526-11	. PLUG	1	
-21	204C721-11	. COVER PLATE	3	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-54	10000474	. COVER PLATE (92114)	3	
		(Interchangeable with 204C721-11)		
		(ATTACHING PARTS)		
-22	EW41008	. SCREW, Machine	4	
		---*---		
-23	204C521-13	. LATCH	3	
	204D519-1	. LID LOCK BODY ASSEMBLY	3	
		(ATTACHING PARTS)		
-24	EW41005	. SCREW, Button hd	2	
-25	MS51960-65	. SCREW, Mach	4	
-26	EW42001	. NUT, Cap	4	
-27	AN960PD10L	. WASHER, Flat	4	
		---*---		
-28	MS21209F1-15	. . INSERT, Screw thd.	2	
-29	204D519-11	. . LID LOCK BODY	1	
-30	204C722-11	. REINFORCEMENT	2	
		(ATTACHING PARTS)		
-31	MS20426AD4-6	. RIVET	7	
-32	AN960C4	. WASHER, Flat	7	
		---*---		
-33	204C723-11	. REINFORCEMENT	1	
		(ATTACHING PARTS)		
-34	MS20426AD4-6	. RIVET	3	
-35	AN960C4	. WASHER, Flat	3	
		---*---		
-36	204C423-11	. BRACKET, Footman	2	
	55457	. BRACKET, Footman (92114)	2	
		(Interchangeable with 204C423-11)		
		(ATTACHING PARTS)		
-37	EW41007	. SCREW, Hexagon socket	2	
-38	EW42009	. NUT, Cap	2	
-39	204B422-11	. SPACER	2	
		---*---		
-40	204C720-11	. PLATE	2	
		(ATTACHING PARTS)		
-41	MS20470AD4-5	. RIVET, Solid universal hd	2	
		---*---		
-42	204C630-1	. GUIDE ASSEMBLY	1	
	21673	. GUIDE ASSEMBLY (92114)	1	
		(Interchangeable with 204C630-1)		
		(ATTACHING PARTS)		
-43	MS51957-45	. SCREW, Mach pan hd	1	
-44	MS51957-44	. SCREW, Mach pan hd	5	
-45	AN960C10	. WASHER, Flat	4	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-54-46	AN960-8L	. WASHER, Flat	6	
-47	AN936A8	. WASHER, Tooth lock	6	
-48	EW42011	. NUT, Cap	6	
		---*---		
-49	204C778-11	. PAD	1	
-50	204C778-13	. PAD	1	
-51	CL204D2-1	. RADIO BRACKET ASSEMBLY (80206)	1	
	102D450-3	. RADIO BRACKET ASSEMBLY (30941)	1	
		(ATTACHING PARTS)		
-52	MS20426AD4-6	. RIVET, (0.125 dia x 0.375 lg)	4	
-53	AN960PD4	. WASHER, Flat	4	
		---*---		
-54	67A73D7-3	. STRAP ASSEMBLY, Forward (30003)	2	
	204C926-1	. STRAP ASSEMBLY, Forward (30941)	2	
		(ATTACHING PARTS)		
-55	204C423-11	. BRACKET, Footman	1	
	55457	. BRACKET, Footman (92114)	1	
		(Interchangeable with 204C423-11)		
-56	204B422-11	. SPACER	2	
-57	MS35206-231	. SCREW, Mach pan hd	2	
-58	AN960C-6	. WASHER, Flat	2	
-59	EW42009	. NUT, Cap	2	
		---*---		
-60	67A73D7-4	. STRAP ASSEMBLY, Rear (30003)	2	
	204C927-1	. STRAP ASSEMBLY, Rear (30941)	2	
		(ATTACHING PARTS)		
-61	MS27039-0808	. SCREW, Machine	1	
-62	AN960-8L	. WASHER, Flat	2	
-63	EW42006	. NUT, Cap	1	
		---*---		
-64	204C633-11	. PAD	1	
	24859-01	. PAD (92114)	1	
		(Interchangeable with 204C633-11)		
-65	204D125-13	. HINGE	2	
		(ATTACHING PARTS)		
-66	MS20470AD3-8	. RIVET, Solid universal hd	3	
		---*---		
-67	204D420-1	. CONTAINER, Sub-assembly	1	
-68	36C1326-1	. STRAP, Retaining (Note 1)	2	
		(ATTACHING PARTS)		
-69	204C423-11	. BRACKET, Footman	2	
	55457	. BRACKET, Footman (92114)	2	
		(Interchangeable with 204C423-11) (Note 1)		
-70	AN507-632R10	. SCREW, Mach flat hd (Note 1)	4	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-54-71	EW42009	. NUT, Cap (Note 1)	4	
-72	204B422-11	. SPACER (Note 1)	4	
		---*---		
-73	204C923-11	. LABEL, Manual release	1	
-74	204C924-11	. LABEL, Warning	1	
	Notes: 1. Removed by ACC 332, Amend. 1.			

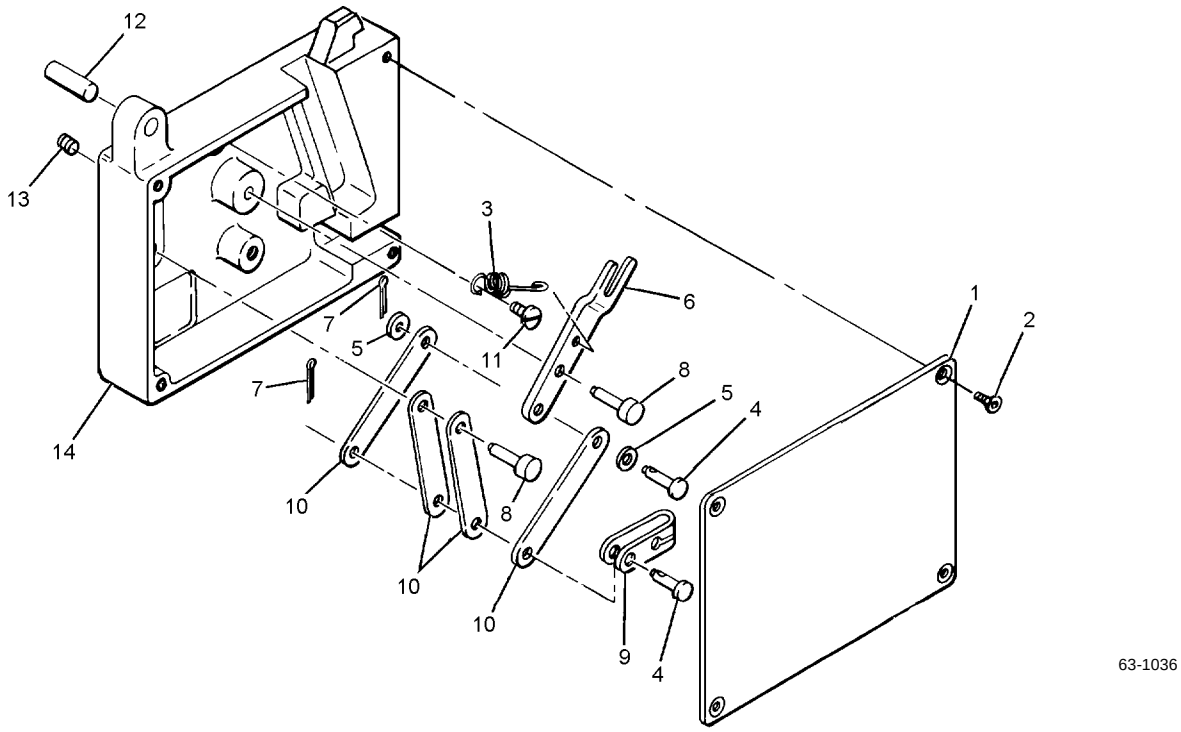


Figure 7-55. Lid Lock Release Assembly (East/West)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-55	204D580-1	LID LOCK RELEASE ASSEMBLY ..... (See figure 7-54 for NHA)	REF	
-1	102C597-13	. COVER ..... (ATTACHING PARTS)	1	
-2	MS24693-S3	. SCREW, Flathead (4-40) (Note 1) ..... ---*---	4	
-3	102C584-11	. SPRING, Toggle	1	
-4	MS9462-05	. PIN, Clevis	2	
-5	AN960-C4	. WASHER, Flat/Interchangeable with Scott ..... P/N 255420/	2	
-6	102C583-13	. LEVER, Actuating	1	
-7	MS24665-1011	. PIN, Cotter (0.312 lg)	2	
-8	102C596-11	. PIN, Pivot (0.312 dia x 0.60 lg)	2	
-9	102C581-11	. CLEVIS	1	
-10	102C582-11	. LINK TOGGLE	4	
	204D587-1	. HOUSING INSERT ASSEMBLY	1	
-11	EW41001	. . SCREW (4-40 x 0.312 lg)	1	
-12	MS9390-421	. . PIN, Straight (0.252 dia x 0.50 lg)	1	
-13	MS21209F1-15	. . HELICAL COIL INSERT ..... (For 10 x 32 x 0.285 lg)	3	
-14	204D587-11	. . HOUSING, Machined lid lock release	1	
	Notes: 1. Apply loctite sealant Grade A or equivalent.			

NUMERICAL INDEX (RSSK-1/1A ROCKET JET)

Part Number	Figure and Index Number	SM&R Code
AMS3655-15	7-29-7	XAGZZ
	7-31-3	
	7-31-9	
	7-31-15	
AN121603	7-32-12	XBGZZ
AN227-68	7-26-66	XBGZZ
AN227-7	7-27-15	
AN277-61	7-26-67	XBGZZ
AN277-64B	7-36-70	
AN381-2-5	7-28-1	XBGZZ
AN392-9	7-28-3	XBGZZ
AN510C10R8	7-25-21	
	7-25-26	
	7-25-31	
AN515C4-4	7-30-4	
AN525-832-8	7-24-22	XBGZZ
AN565E8H3	7-27-29	XBGZZ
	7-28-41	
	7-29-17	
AN66C2	7-28-4	
AN809-1	7-30-8	XAGZZ
AN816-3D	7-30-1	
AN816-3J	7-26-2	
AN932-S2	7-26-1	XBGZZ
AN960C10	7-26-5	
	7-26-58	
AN960C3L	7-26-65	
AN960C4L	7-26-2	XBGZZ
	7-30-5	
	7-32-11	
AN960C416L	7-26-11	
AN960C6L	7-25-2	
	7-25-9	
	7-25-43	
	7-26-27	
	7-26-37	
	7-26-52	
AN960C8L	7-24-21	
	7-25-35	
	7-25-39	
	7-26-32	
	7-26-43	
AN960PD-4	7-24-28	
AN960PD10L	7-25-20	
	7-25-25	
	7-25-30	
	7-26-35	
AN970-4	7-26-14	
CL204D2-1	7-24-26	MO
CS-10	7-30-31	XBGZZ
C240-026-0620S	7-30-42	XBGZZ
C5942-2	7-29-10	XAGZZ
MIL-T-8363	7-25-6	
MS134352	7-30-40	
MS16995-16	7-30-17	
MS171430	7-27-25	XAGZZ
MS171436	7-28-42	XBGZZ
MS20365-832	7-24-20	
MS20392-1C17	7-30-21	
MS20426-AD4-6	7-26-72	
	7-26-75	
MS20470A4-7	7-24-27	
MS20613-4C4	7-32-7	
MS20613-4C4	7-32-17	
MS24665-148	7-30-19	
MS24665-151	7-32-10	
MS24665-153	7-30-22	
MS24667-9	7-25-54	
MS24677-8	7-30-29	
MS25281-R2	7-25-7	
	7-26-39	
	7-26-53	
MS25281-R3	7-26-29	
MS35190-210	7-29-13	
MS35200-3	7-29-4	XBGZZ
MS35333-71	7-30-18	
MS35457-7	7-28-16	
MS51025-27	7-27-10	XBGZZ
	7-28-13	
MS51034-19	7-29-25	XBGZZ
MS51041-29	7-28-23	XBGZZ
MS51960-68	7-26-17	
MS51960-70	7-26-7	
MS51960-71	7-26-6	
M62FS632-7C	7-42-7	
RAL2487-041-0.125	7-29-5	XAGZZ
	7-31-1	
	7-31-7	
	7-31-13	
RA-2500-3	7-28-6	
RA6170	7-29-6	XAGZZ
	7-31-2	
	7-31-8	
	7-31-14	
RA6170-2	7-28-5	XAGZZ
RA6238	7-27-20	XAGZZ
RJS100-400-312	7-27-4	
RJS200-632-562	7-25-50	XBGZZ

NUMERICAL INDEX (RSSK-1/1A ROCKET JET) (Cont)

Part Number	Figure and Index Number	SM&R Code
SS-48152	7-26-63	
TYPE L-2	7-30-10	
V66-1ACC-161	7-24	
V660-2(80)-200	7-26-77	PAOZZ
015-11365-1	7-24-4	PAOZZ
10075	7-25-4	XAGZZ
119016	7-33-20	
1195AS114-1	7-24-6	PAOZZ
142001-1	7-33-6	
142001-1	7-33-24	
142001-7	7-33-5	PAOZZ
	7-33-13	
142002	7-31-5	
	7-31-11	
	7-31-18	
142006-2	7-33-3	PAOZZ
	7-33-11	
142012	7-33-4	
	7-33-12	
184C100-1	7-24-6	
1954-5/8	7-25-5	XAGZZ
20321-13	7-27-19	XAGZZ
214001	7-31-4	
	7-31-10	
	7-31-17	
214006	7-31-16	XAGZZ
216C1-6	7-28-27	
217801	7-28-10	XAGZZ
22K2-02	7-25-19	XBGZZ
	7-25-24	
	7-25-29	
	7-26-4	
	7-26-55	
22K2-62	7-25-1	XBGZZ
	7-25-8	
	7-25-42	
	7-26-26	
	7-26-36	
	7-26-49	
	7-26-69	
22K2-82	7-25-34	
	7-25-38	
	7-26-42	
23204	7-26-20	
242106	7-27-3	
	7-28-15	
242107-1	7-27-1	
242109	7-27-22	XAGZZ
242112	7-27-6	PAOZZ
	7-28-18	
242113	7-27-31	
242114	7-28-43	
242132-3	7-27-23	XAGZZ
242137	7-26-41	XBGZZ
242143-1	7-27-18	XAGZZ
242145	7-27-21	XAGZZ
242149	7-27-14	XAGZZ
242200-13	7-24-3	PAOGG
242200-13	7-27	
242202-7	7-27-32	XAGZZ
2422430	7-28	
242301-7	7-29-31	XAGZZ
242302	7-29-20	
242303	7-29-29	PAOZZ
242304	7-29-27	PAOZZ
242305	7-29-24	PAOZZ
242306	7-29-21	
242320	7-29-14	PAOZZ
242321	7-29-12	PADZZ
242322-3	7-29-15	PAOZZ
242323	7-29-3	
242336	7-29-1	
242380	7-29-16	
242400-7	7-24-13	
	7-28	
242402-5	7-28-44	XAGZZ
242405	7-28-38	
242406	7-28-37	PAOZZ
242407	7-28-21	PAOZZ
242410-3	7-28	
242411	7-28-28	XAGZZ
242412	7-28-25	XAGZZ
242413-3	7-28-26	XAGZZ
242414	7-28-8	
	7-27-16	
242415-3	7-27-7	PAOZZ
	7-28-22	
242416	7-28-24	XAGZZ
242423	7-27-26	XAGZZ
242424	7-27-27	XAGZZ
242442	7-28-33	PAOZZ
242443	7-28-32	
242445	7-28-31	PAOZZ
242448	7-28-35	XAGZZ
242449	7-28-29	
242450	7-28	PAOZG
242451	7-28-34	

NUMERICAL INDEX (RSSK-1/1A ROCKET JET) (Cont)

Part Number	Figure and Index Number	SM&R Code
24410-10	7-28-7	
24471-1	7-28-11	
24473-1	7-28-12	PAOZZ
24473-3	7-28-12	PAOZZ
24473-5	7-28-12	PAOZZ
24473-7	7-28-12	PAOZZ
24475-1	7-27	PAOZZ
24475-3	7-27	PAOZZ
24475-5	7-27	PAOZZ
24475-7	7-27	PAOZZ
24476	7-27-28	XAGZZ
24484-1	7-27-11	
	7-28-14	
24485-1	7-29-18	
24486-1	7-29-19	
255206	7-26-74	
255212-1	7-26-33	
255418	7-25-53	XAGZZ
255455-5	7-26	XAGZZ
255456	7-25-52	XAGZZ
255464-1	7-25-51	XAGZZ
255466-1	7-25-56	XAGZZ
255466-3	7-25-55	XAGZZ
255705	7-26-19	
255706	7-26-18	
283190	7-26	XAGZZ
283191	7-26-46	PAOZZ
283472	7-25-47	PAOZZ
283683	7-30-11	
283688	7-30-12	
299304	7-33-18	XAGZZ
299305	7-33-19	XAGZZ
299306	7-33-22	PAOZZ
3-4	7-28-30	
308411	7-26-62	PAOZO
3591-3CNX0285	7-29-30	
3591-3CNX0190	7-32-19	XBGZZ
3591-3CNX0380	7-32-18	XBGZZ
36D1321	7-24-11	
36H1323-31	7-24-9	
365693	7-26-45	
365695	7-30-3	PAOZZ
365700-1	7-25-41	PAOZZ
	7-26-68	
365704	7-32-20	XAGZZ
365705	7-25-14	PAOGG
365705	7-32	
365706	7-32-8	XAGZZ
365707	7-32-13	XAGZZ
365708	7-32-14	XAGZZ
365709	7-32-5	
365712	7-32	PAOZZ
365713	7-32	PAOZZ
365714	7-32-9	
365733	7-32	XAGZZ
365734	7-32-4	
365735	7-32-2	XAGZZ
365736	7-32	
5144-18	7-26-40	XBGZZ
	7-26-48	
634497	7-25-45	PAOZZ
634498	7-25-33	PAOZZ
64A73E6-12	7-24-5	PAOZZ
67A73E6-11	7-24-5	PAOZZ
68A77D4-1	7-24-12	
7099000	7-24-14	
7110015	7-26	XBGZZ
723103	7-30-41	PAOZZ
723104	7-30-38	PADZZ
723106	7-30-36	XBGZZ
723107	7-30-37	PAOZZ
723109	7-30-35	PADZZ
723112	7-30-32	
723118	7-30-2	
723134	7-30-35	PADZZ
729000	7-27	
729003	7-27-12	XAGZZ
729004	7-27-13	XAGZZ
729005	7-27	XAGZZ
741000	7-24	
741000-1	7-24	
741100	7-24-15	XAGGG
	7-26	
74110003	7-29-32	
741101	7-25-49	XAGGG
741105	7-25-32	
741108	7-25-17	PAOZZ
	7-33	
741109	7-25-22	PAOZZ
	7-33	
741110	7-25-27	PAOZZ
	7-33	
741112	7-25-11	PAOZZ
	7-31	
741112-1	7-31-6	XAGZZ
741113	7-25-12	PAOZZ
	7-31	
741113-1	7-31-12	XAGZZ

NUMERICAL INDEX (RSSK-1/1A ROCKET JET) (Cont)

Part Number	Figure and Index Number	SM&R Code
741114	7-25-13	PAOZZ
	7-31	
741114-1	7-31-19	XAGZZ
741115	7-25-37	XBGZZ
741121	7-25-46	
741128	7-24-19	
741129	7-29-32	
741130	7-26	PAOZZ
741131	7-24-8	
741200	7-24-7	XAGZZ
	7-26	
741200-1	7-24-7	XAGZZ
	7-26	
741201	7-26-78	XAGGG
741204	7-26-73	
741205	7-26-76	
741206	7-26-71	
741209	7-25-57	XAGZZ
741211-1	7-26-60	
741211-2	7-26-59	
741213	7-26-23	
741216	7-24-17	PAOZZ
	7-26	
741217	7-26	XAGZZ
741218	7-25-60	XAGZZ
741220	7-24	XBGZZ
741221	7-24-25	XAGZZ
741222	7-24-24	XAGZZ
741223	7-24	XAGZZ
741233	7-26-61	
741239	7-26-12	
741240	7-24-16	PAOZZ
741250	7-26-3	PAOGG
741255-1	7-26-8	
741255-2	7-26-9	
741256	7-26-15	PAOZZ
741258	7-28-9	XAGZZ
741265	7-26-47	PAOZZ
741270	7-26-25	
741275	7-29	PAOZZ
741275-1	7-29	PAOZO
741275-3	7-29-8	XAGZZ
741280	7-26-24	
741290	7-26-30	PAOGG
	7-29	
741290-1	7-26-30	
741290-1	7-29	
741300	7-24	PAOZZ
741303	7-24-1	XAGGG
741304	7-24-2	XAGGG
741325	7-29-9	XAGZZ
741326	7-29-11	XAGZZ
741353	7-27	
741354	7-28	
741355	7-29	
741356	7-30	
741361-1	7-33-8	
	7-33-15	
741361-1	7-33-25	
741363	7-33-7	XAGZZ
	7-33-14	
	7-33-23	
741364	7-33-1	
	7-33-9	
	7-33-16	
741365	7-26-16	PAOZZ
	7-26-21	
741370	7-26-54	
	7-30	
741370-1	7-26-54	
	7-30	
741371	7-30-44	XAGZZ
741373	7-30-14	
741374	7-30-33	PAOZZ
741375	7-30-16	
741463	7-25-58	XAGZZ
741490	7-24-9	
741500	7-24-12	PAOZZ
741600	7-24-11	PAOZZ
741800	7-30	PAOZZ
741811	7-30-9	XAGZZ
767100-1	7-30-26	
767100-2	7-30-26	PAOZO
767103	7-30-24	PAOZZ
767105	7-30-20	
767400	7-30-30	XAGZZ
767861	7-30-7	XAGZZ
767862	7-30-6	XAGZZ
767900	7-30-25	
767901-1	7-30-28	XAGZZ
767901-11	7-30-27	XAGZZ
767901-2	7-30-28	XAGZZ
767901-3	7-30-28	XAGZZ
767901-4	7-30-28	XAGZZ
767901-5	7-30-28	XAGZZ
767901-6	7-30-28	XAGZZ
767902-1	7-30-34	XBGZZ
767902-2	7-30-34	XBGZZ

NUMERICAL INDEX (RSSK-1/1A ROCKET JET) (Cont)

Part Number	Figure and Index Number	SM&R Code
799303	7-33-21	
■ 9120097-27	7-30-9A	PAGZZ
99002-10	7-32-6	XAGZZ
99002-7	7-25-59	XAGZZ
99004-1	7-32-16	XAGZZ
99007-4	7-32-15	XAGZZ
99028	7-27-17	XAGZZ
99050-2	7-30-43	
99071	7-33-2	XBGZZ
	7-33-10	
	7-33-17	
99112	7-25-48	
99133	7-24-18	
99136-10-4	7-29-28	
99136-10-5	7-28-39	
99136-12-11	7-30-39	
99136-12-13	7-28-40	
	7-29-23	
99136-12-15	7-30-39	
99136-13-4	7-29-26	
99136-15-4	7-27-5	
	7-27-8	
99136-15-5	7-28-17	
	7-28-20	
99136-17-13	7-27-9	
	7-27-30	
	7-28-19	
99136-4-6	7-29-22	
99136-53-11	7-30-13	
99136-53-15	7-30-13	
99136-53-3	7-27-2	
	7-29-2	
99136-53-6	7-28-36	
99145-1	7-27-24	XAGZZ

NUMERICAL INDEX (RSSK-1/1A SCOTT)

Part Number	Figure and Index Number	SM&R Code
AN227-64B	7-36-70	
AN381-2-5	7-38-12	
	7-45-5	
AN392-9	7-45-7	
AN505C6R7	7-35-44	
	7-42-4	
AN507-632R10	7-35-69	
AN507C832R7	7-43-33	
AN510C10R14-4	7-43-3	
	7-43-6	
AN510C10R8	7-42-9	
	7-42-31	
AN510C10R20	7-43-5	
AN510C10R24	7-43-2	
AN515-4R3	7-40-19	XBGZZ
	7-47-9	
AN515-4R10	7-40-20	
	7-47-6	
AN515-8R6	7-43-34	
AN520-0-2	7-40-14	
	7-47-2	
AN525-10R12	7-36-36	
	7-43-36	
AN525-416R24	7-43-13	
AN525-83R7	7-36-30	
	7-43	
AN525-832R8	7-34-28	
	7-36-43	
AN525-832R9	7-36-17	
AN535-00-2	7-40-47	
	7-47	
AN565D2H2	7-37-10	
	7-44-10	
AN565DC6H2	7-40-26	
	7-47-13	
AN565E8H3	7-45-1	
	7-46-18	
AN816-3C	7-36-1	
	7-40-1	
	7-43-11	
	7-47-38	
AN823-3C	7-47-37	
AN826-5D	7-47-36	
AN932D1	7-40-6	
AN932S2	7-36-11	
AN935-4L	7-47-7	
	7-47-10	
AN936A4	7-40-21	
AN936A8	7-35-65	

Part Number	Figure and Index Number	SM&R Code
AN936A8	7-36-42	
	7-41-2	
	7-43-25	
AN960-10	7-35-12	
	7-36-38	
AN960-10L	7-43-36	
AN960-416L	7-36-4	
	7-43-13	
AN960-6L	7-34-25	
	7-35-20	
	7-35-24	
AN960-8	7-36-20	
	7-36-32	
	7-36-41	
	7-36-45	
	7-43-25	
AN960-8L	7-34-29	
	7-35-64	
	7-41-2	
	7-43-26	
AN970-4	7-36-5	
	7-43-13	
AN960C4	7-35-50	
	7-35-54	
	7-38-13	
	7-45-6	
AN960C6L	7-35-46	
AN960PD-4	7-34-20	
	7-41-20	
AN960PD10L	7-35-39	
	7-36-48	
	7-42-9	
	7-43-28	
AN960PD6	7-36-57	
	7-36-72	
AN960PD8L	7-43-34	
AQM62FS440-4C	7-35-14	XBGZZ
	7-35-34	
BS51338-K1105	7-36-54	
CL204D2-1	7-34-18	MO
	7-41-18	
CL226D3	7-41-12	
CL226D4	7-41-13	
EC2	7-43-16	
EW46001	7-36-29	
EW46002	7-36-16	
EW51010	7-39-20	
EW51011	7-36-27	
	7-36-32	

NUMERICAL INDEX (RSSK-1/1A SCOTT) (Cont)

Part Number	Figure and Index Number	SM&R Code
EW51018	7-35-4	
EW68001	7-40-5	
LP22B048J10	7-36-3	XBGZZN
MS171436	7-38-34	
MS171494	7-40-16	
	7-47-3	
MS20364-428A	7-43-13	
MS20364-832	7-41-2	
	7-43	
MS20364-832A	7-36-18	
	7-36-26	
MS20364-832A	7-36-31	
	7-36-44	
	7-43-26	
MS20392-1C7	7-35-19	
MS20392-1C9	7-35-23	
	7-38-14	
MS20426AD4-6	7-35-49	
	7-35-53	
	7-35-73	
MS20470AD4-5	7-35-60	
MS20470A4-7	7-34-19	
	7-36-71	
	7-41-19	
MS20480A4-7	7-36-56	
MS21209F1-15	7-35-27	
MS21209F1-15	7-35-40	
	7-39-26	
	7-40-48	
MS24665-87	7-36-28	XBGZZ
	7-43-18	
MS24665-132	7-35-18	
	7-35-22	
MS24667-9	7-35-1	
MS24693-S30	7-34-24	
MS35190-2	7-46-5	
MS35190-210	7-39-7	
	7-39-17	
MS35190-3	7-46-9	
	7-46-11	
MS35200-3	7-46-2	
MS35216-39	7-43-25	
MS35216-41	7-35-62	
	7-36-25	
	7-41-2	
	7-43-22	
	7-43-26	
	7-43-30	
MS35216-41	7-43-32	

Part Number	Figure and Index Number	SM&R Code
MS35216-42	7-41-3	
MS35216-43	7-41-4	
MS35217-53	7-43-27	
MS35217-55	7-36-47	
	7-43-28	
MS35457-1	7-45-26	
MS51025-27	7-45-9	
MS51034-10	7-46-26	
MS51035-44	7-42-19	
MS51041-29	7-45-3	
MS51959-3	7-39-5	
MS51960-65	7-35-37	
MS51960-68	7-36-63	
MS51960-71	7-36-7	
MS51960-72	7-36-8	
MS51965-27	7-38-17	
MS51977-29	7-37-29	
	7-37-31	
	7-38-3	
	7-38-21	
	7-39-11	
	7-44-29	
	7-44-31	
MS59625-27	7-37-19	
	7-44-19	
M62FS440-5C	7-42-15	
M62FS632-7C	7-42-7	
NAS229-13	7-42-11	
	7-42-13	
NAS42DD4-22	7-40-22	
NAS42DD4-24	7-47-8	
NAS42DD4-7	7-36-73	
NAS43-4-52	7-43-13	
NAS43DD3-16	7-36-37	
	7-43-36	
RAL2487-047-125	7-46-15	
	7-41-16	
V66-1ACC-161	7-34	
	7-41	
015-11365-1	7-34-5	PAOZZ
10000453	7-35-59	MDGZZ
10000457	7-34-2	XAGZZ
10000458	7-34-1	XAGZZ
10000474	7-35-33	MDGZZ
10000476	7-35-48	MDGZZ
10000477	7-35-52	MDGZZ
10000479	7-35-41	
10000480	7-35-72	

NUMERICAL INDEX (RSSK-1/1A SCOTT) (Cont)

Part Number	Figure and Index Number	SM&R Code
10000481	7-35-35	PAGZZ
10000498	7-35-28	XAGZZ
10000499	7-35-16	XAGZZ
10000502	7-35-21	XAGZZ
10000503	7-35-25	
10000504	7-35-17	XAGZZ
10000508	7-35-13	XAGZZ
10000515	7-36-6	MDGZZ
	7-36-61	
10000516	7-36-67	MDGZZ
10000517	7-36-39	XBGZZ
10000524	7-36-75	MGGZZ
10000525	7-39-18	PAGZZ
10000526	7-39-16	PAGZZ
10000536	7-36-9	MDGZZ
10000543	7-35-15	
10000545	7-34-15	
10000547	7-37-4	
	7-44-4	
10000548	7-37-6	
	7-44-6	
10000549	7-37-3	
	7-44-3	
10000550	7-37-1	
	7-44-1	
10000554	7-35-3	XAGZZ
10000555	7-35-6	XAGZZ
10000556	7-35-8	XAGZZ
10000557	7-35-9	XAGZZ
10000558	7-35-10	XAGZZ
10000711	7-36-68	PAGZZ
10000801	7-38-1	
10000815	7-37-25	
	7-38-7	
	7-44-25	
10000826	7-40-46	
10000827	7-35-4	XAGZZ
10000902	7-39-3	MDGZZ
10000942	7-36-15	MDGZZ
10000943	7-36-14	MDGZZ
10000945	7-40-38	PAOZZ
10000946	7-40-45	PAGZZ
10000947	7-40-29	PAGZZ
10000948	7-40-44	PAGZZ
10000974	7-36-13	
10001148	7-40-43	PAGZZ
10001308	7-40-12	PAGZZ
10005310	7-40-37	
102C525-11	7-35-30	
102C527-11	7-35-32	
102C527-13	7-35-42	
11470	7-47-41	
11594	7-40-35	PAOZZ
	7-47-22	
11597	7-40-34	
	7-47-21	
11622-04	7-40-33	
	7-47-15	
1195AS114-1	7-34-7	PAOZZ
15030	7-36-64	PAGZZ
15031	7-36-65	PAGZZ
15286	7-38-11	
15287	7-38	PAGZZ
15299	7-39-20	PAOZZ
15300	7-39-8	PAGZZ
15301	7-39-1	PAGZZ
15306	7-36-59	PAOZZ
15306	7-36-62	PAGZZ
15503	7-38-27	XAGZZ
15513	7-38-20	PAOZZ
15702	7-38-31	PAOZZ
15705	7-38-22	XAGZZ
183D100-1	7-34-4	
	7-37	
	7-41-14	
	7-44	
183D200-1	7-34-14	
	7-38	
18352	7-35-63	PAGZZ
184C100-1	7-34-7	
19157	7-39-6	PAGZZ
19310	7-38-4	
19310-00	7-37-22	XAGZZ
	7-44-22	
19474	7-34-26	
19561	7-35-30	PAGZZ
19857-00	7-38-16	PAOZZ
19857-01	7-38-16	PAOZZ
19857-03	7-38-16	PAOZZ
19857-05	7-38-16	
19912	7-38-5	
19912-00	7-37-23	
	7-44-23	
19935	7-39-24	PAGZZ
19936	7-39-9	PAGZZ
19938	7-39-21	PAGZZ
19970	7-37-30	PAOZZ
	7-44-30	

NUMERICAL INDEX (RSSK-1/1A SCOTT) (Cont)

Part Number	Figure and Index Number	SM&R Code
19974	7-35-32	PAGZZ
19974-1	7-35-42	MDGZZ
2-10-76-128	7-45-14	
2-10S418-6	7-46-33	
2-10S613-6	7-38-32	
	7-39-22	
2-12B278-7	7-45-13	
	7-46-29	
2-12B318-7	7-38-33	
	7-39-15	
2-13-77-545	7-40-3	
2-13S613-6	7-39-19	
2-15S418-6	7-37-24	
	7-37-27	
	7-38-6	
	7-44-24	
	7-44-27	
2-15-76-128	7-45-28	
2-17B278-7	7-38-10	
	7-45-25	
2-17B318-7	7-37-28	
	7-44-28	
2-4S418-6	7-46-28	
2-4S613-6	7-39-25	
20018	7-40-11	PAGZZ
20018	7-47-27	PAGZZ
20041	7-40-32	XBGZZ
	7-47-20	
20042-03	7-40-28	XBGZZ
20042-3	7-47-16	
20045	7-47	PAOZZ
20046	7-47-28	
20057	7-40-36	XBGZZ
	7-47-23	
20062	7-47-24	
20072	7-36-53	PAOZZ
	7-43-37	
20082	7-40-27	PADZZ
	7-47-14	
203C225-1	7-36-67	
20364	7-40-23	
	7-47-12	
20364-01	7-40-24	
	7-47-12	
20364-02	7-40-25	
20364-02	7-47-12	
20395	7-36-74	
204C-213-11	7-36-55	
204C214-11	7-36-66	
	7-43-7	
204C215-11	7-36-58	
204C225-1	7-36-61	
204C423-11	7-35-55	
	7-35-68	
	7-36-49	
204C626-11	7-36-15	
204C627	7-36-14	
204C630	7-35-61	
	7-41-1	
204C721-11	7-35-33	
204C925	7-41-11	
204D250-1	7-36-46	
	7-39	
204D266-1	7-39-10	
20415	7-36-27	
	7-36-3	
	7-43-17	
	7-46-16	
20430	7-40-5	PAGZZ
	7-47-30	
20673	7-38-24	XAGZZ
21000-11	7-34	
21000-9	7-41	
21001-3	7-41-13	
	7-43	
21006-7	7-43	
	7-46	
21006-9	7-34-17	PAOGG
	7-36-46	
	7-39	
21007-5	7-34-14	
	7-38	
	7-45	
21020-3	7-38-2	PAOZZ
	7-45-2	
21022-3	7-36	XAGGG
21025-1	7-43-19	PADZZ
	7-46-3	
21030	7-40-15	XBGZZ
	7-47-4	
21038	7-43-20	
21051-13	7-47	
21051-15	7-47	
21051-17	7-40	
21051-19	7-36-35	
	7-40	
	7-43-35	
	7-47	

NUMERICAL INDEX (RSSK-1/1A SCOTT) (Cont)

Part Number	Figure and Index Number	SM&R Code
21052-3	7-47-42	
21120	7-47-11	
21132-1	7-36-2	
	7-43-12	
21133-7	7-34-4	PAOGG
	7-37	
	7-41-14	
	7-44	
21145	7-41-6	
21162	7-46-14	
21184-5	7-45-32	
21189	7-36-10	
	7-43-15	
21190	7-36-55	
21421-3	7-42	
21466-3	7-41-12	
	7-42	
21466-5	7-34-16	XAGGG
	7-35	
21648	7-43-31	
21649	7-43-29	
21673	7-35-61	PAOZZ
	7-41-1	
21833-03	7-36-23	PAGZZ
21833-1	7-41-5	
21833-3	7-41-5	PAOZZ
22K1-02	7-35-38	
	7-42-9	
22K2-62	7-43-9	
	7-35-45	
	7-35-57	
	7-35-70	
	7-36-51	
	7-42-4	
	7-43	
22021	7-40-17	XBGZZ
	7-47-5	
22028-1	7-42-1	
22199-02	7-40-41	PAGZZ
22276-2	7-47-25	PAOZZ
22292-03	7-40-31	
	7-47-19	
22293-01	7-40-30	
	7-47-18	
22382-1	7-41-10	
22398-1	7-40-13	
	7-47-1	
22639-11	7-47-40	PAGZZ
	7-40-7	
23204-1	7-36-66	MDGZZ
	7-43-7	
23402-3	7-43-21	PAOZZ
23578-1	7-43-14	
24210-3	7-45-4	
242106	7-45-27	
242108	7-45-29	
24216-1	7-45-23	
242301-3	7-46-36	
242302	7-46-23	
242303	7-46-34	PAOZZ
242304	7-46-32	PAOZZ
242305	7-46-31	PAOZZ
242306	7-46-27	PAOZZ
242309-1	7-46-13	
242320	7-46-6	PAOZZ
242321	7-46-4	PADZZ
242322-3	7-46-7	PAOZZ
242333	7-46-12	
242335	7-46-8	
242336	7-46-24	
242340	7-46-10	
242345	7-46-17	
242373	7-46-22	
242380	7-46-19	
242402-3	7-45-33	
242405	7-45-15	
242406	7-45-16	PAOZZ
242407	7-45-30	PAOZZ
242415-3	7-45-31	PAOZZ
242424	7-46-1	
242430	7-45-8	PAOZZ
242442	7-45-22	PAOZZ
242443	7-45-21	
242445	7-45-20	PAOZZ
242448	7-45-24	
242449	7-45-18	
242450	7-45	PAOZG
24475-01	7-37	
24471-1	7-45-11	
24473-1	7-45-12	PAOZZ
24473-3	7-45-12	PAOZZ
24473-5	7-45-12	PAOZZ
24473-7	7-45-12	PAOZZ
24475-01	7-44	PAOZZ
24475-03	7-37	PAOZZ
	7-44	
24475-05	7-37	PAOZZ
	7-44	

NUMERICAL INDEX (RSSK-1/1A SCOTT) (Cont)

Part Number	Figure and Index Number	SM&R Code
24475-07	7-37	PAOZZ
	7-44	
24482-1	7-42-12	PAOGG
24484-01	7-37-20	
	7-38-18	
	7-44-20	
24484-1	7-45-10	
24485-01	7-39-12	PAGZZ
	7-46-20	
24486-01	7-39-13	PAGZZ
24486-1	7-46-21	
24490	7-47-36	
24712-1	7-43-24	PAOZZ
24859	7-42-28	
24859-01	7-35-66	
24873	7-41-8	PAOZZ
24874	7-41-9	PADZZ
25054	7-41	
25054-1	7-41-7	PAOZZ
25220-1	7-43-23	PAOZZ
25264-01	7-40	XAGZZ
25264-1	7-47-43	
25264-3	7-40-49	XAGZZ
25266	7-47-34	PAOZZ
25271-1	7-47-32	PAOZZ
25341-1	7-41-17	
25341-3	7-43-38	
25342	7-40-18	
	7-47-11	
25518	7-45	PAOZZ
255211	7-43-9	PAGZG
255212	7-43-10	
255411-3	7-42-16	XAGZZ
255414	7-42-18	XAGZZ
255416	7-42-24	PAOZZ
255420	7-42-17	XAGZZ
255422	7-42-21	
255426	7-42-22	PAOZZ
255427	7-42-23	XAGZZ
255430	7-42-26	XAGZZ
255432	7-42-14	XAGZZ
225450-3	7-42-10	PAOZZ
255457	7-42-20	
255500	7-42-8	PAOZZ
255504	7-43-8	PAOZZ
255510	7-42-30	
255610-1	7-42-5	PAOZZ
255620	7-42-3	
255650	7-42-6	PAOZZ
255705	7-43-4	PAOZZ
255706	7-43-1	PAOZZ
26183	7-40-39	PAOZZ
26327-01	7-37-18	XAGZZ
	7-44-18	
26331-01	7-37	XAGZZ
	7-44	
26332	7-37-8	XAGZZ
	7-44-8	
26333	7-37-14	XAGZZ
	7-44-14	
26334	7-37-9	XAGZZ
	7-44-9	
26335	7-37-11	XAGZZ
	7-44-11	
26336	7-37-12	XAGZZ
	7-44-12	
26337	7-37-13	XAGZZ
	7-44-13	
26338-01	7-37	
	7-44	
26339	7-37-17	XAGZZ
	7-44-17	
26343	7-37-16	XAGZZ
	7-44-16	
26488	7-40	PCOZZ
	7-47	
26490	7-40	PAOZZ
	7-47	
26936	7-37	
	7-44	
26937	7-38	
26939	7-39	
27490	7-36-58	MGGZZ
2769	7-41-11	MDGZZ
2800A5A	7-37-5	
	7-44-5	
2800A6A	7-40-42	PAGZZ
	7-47-26	
2800B5A	7-47-35	
2800C13A	7-46-30	
2827-27	7-47-33	
2832-17	7-36-19	
2836-02	7-40-40	
28758	7-34	PAGZZ
3-4-S417-7	7-37-2	
	7-37-7	
	7-38-23	
	7-38-29	

NUMERICAL INDEX (RSSK-1/1A SCOTT) (Cont)

Part Number	Figure and Index Number	SM&R Code
3-4-S417-7	7-39-2	
	7-44-2	
	7-44-7	
3-4-77-018	7-45-17	PAOZZ
	7-45-19	
	7-46-25	
	7-41-15	
3591-3CNX190	7-42-27	XAGZZ
3591-3CNX285	7-46-35	
	7-47-44	
36D1321	7-34-12	
36H1323-31	7-34-10	
38030-3F-10C	7-36-60	XBGZZ
38030-3F8C	7-35-11	XBGZZ
	7-35-36	
40026	7-37-26	PAOZZ
	7-38-8	
	7-44-26	
40028-09	7-39	XAGZZ
40031-05	7-38	XAGZZ
40072	7-38-9	MGDZZ
40218-13	7-37	XAGZZ
4178-01	7-34-10	
46001	7-35-43	
5-581226	7-42-2	
5043-6	7-40-4	
	7-47-31	
55011	7-39-14	PAGZZ
55025	7-38-30	PAOZZ
55027	7-38-15	
55052	7-36-50	XBGZZN
55055-01	7-35-47	PAGZZ
55056	7-39-10	
55422	7-34-23	
	7-35-58	MDGZZ
	7-35-71	
	7-36-52	
55443	7-39-4	MDGZZ
55450	7-35-5	XAGZZ
55452	7-35-2	XAGZZ
55453	7-35-7	
55455	7-39-23	PAGZZ
55456-02	7-39-27	XAGZZ
55457	7-34-22	MDOZZ
	7-35-55	
	7-35-68	
	7-36-49	
55471	7-35-26	
55478	7-35-31	XBGZZN

Part Number	Figure and Index Number	SM&R Code
	7-36-69	
55511	7-38-28	XAGZZ
55516-3	7-38-35	XAGZZ
56123	7-34-30	
56494-00	7-37-15	XAGZZ
	7-44-15	
56497-00	7-37-32	XAGZZ
	7-44-32	
58250	7-35-43	PAGZZ
	7-36-29	
58468	7-36-16	PAGZZ
58867-01	7-34-21	
58867-02	7-34-27	
6-32UNF-3AX3-4	7-35-56	XBGZZ
6552	7-40	PAOZZ
	7-47-29	
6553	7-40-10	
6554	7-40-9	
6555	7-40-8	
64A73E6-12	7-34-6	PAOZZ
67A73D7-3	7-34-21	
67A73D7-4	7-34-27	
67A73E6-11	7-34-6	PAOZZ
68A77D4-1	7-34-13	
7014	7-38-25	XAGZZ
7017	7-38-26	XAGZZ
800101-00	7-35	PAOZZ
800235-00	7-38-19	XAGZZ
800236-00	7-34-8	XAGGG
	7-36	
800237-00	7-36-76	XAGZZ
800238-00	7-35	PAOZZ
800239-00	7-34-3	XAGGG
800241-00	7-35-74	XAGGG
800242-00	7-36-22	MGGZZ
800246-00	7-34-12	
800247-00	7-34-13	
800264-00	7-40-2	PAOZZ
800268-00	7-35-51	PAGZZ
800269-00	7-35	XAGZZ
800278-00	7-36-24	PAOZZ
800279-00	7-35-29	PAGZZ
800280-00	7-35	PAGZZ
800286-00	7-35	
800287-00	7-35	PAOZZ
800289-00	7-37-21	XAGZZ
	7-44-21	
800296-00	7-36-33	PAOZZ
800467-00	7-36-21	XBGZZ

NUMERICAL INDEX (RSSK-1/1A SCOTT) (Cont)

Part Number	Figure and Index Number	SM&R Code
800469-00	7-36-12	
800500-00	7-34-9	
800505-00	7-35-67	
800668-00	7-40	
801262	7-36-21	
8374-1	7-47-17	
8820-2	7-47-39	PAOZZ
9120097-27	7-40-12A	PAGZZ
	7-47-28A	PAGZZ
99008-1	7-42-25	

NUMERICAL INDEX (RSSK-1/1A EAST/WEST)

Part Number	Figure and Index Number	SM&R Code
AN227-61	7-51-69	XBGZZ
AN227-68B	7-51-66	XBGZZ
AN381-2-5	7-50-12	XBGZZ
AN505C6R7	7-54-8	
	7-54-13	
AN507-632R10	7-54-70	
AN525-10R12	7-51-37	
AN525-832R7	7-51-24	
	7-51-32	
AN525-832R8	7-51-42	
AN525-832R9	7-51-3	
AN565D2H2	7-49-10	
AN816-3J	7-53-25	
AN816-3C	7-51-7	
AN816-5J	7-53-26	
AN932-S3	7-51-17	XBGZZ
	7-53-12	
AN936A8	7-51-44	
	7-54-47	
AN960-10	7-51-38	
AN960-416L	7-51-12	
AN960-8	7-51-5	
	7-51-26	
	7-51-33	
	7-51-43	
	7-51-45	
AN960-8L	7-54-46	
	7-54-62	
AN960C-6	7-54-58	
AN960C10	7-54-4	
	7-54-45	
AN960C4	7-50-13	
	7-54-32	
	7-54-35	
	7-55-5	
AN960C6L	7-54-9	
	7-54-14	
AN960PD10L	7-51-49	
	7-54-3	
	7-54-27	
AN960PD4	7-54-53	
AN960PD6	7-51-64	
AN970-4	7-51-13	
CL204D2-1	7-54-51	PAGZZ
EW204K-7	7-52	
EW41001	7-55-11	
EW41002	7-51-67	
EW41005	7-51-55	XBGZZ
	7-54-2	
EW41005	7-54-24	
EW41007	7-51-51	XBGZZN
	7-54-37	
EW41008	7-54-22	XBGZZ
EW41009	7-51-9	
EW41010	7-49-20	
	7-50-18	
EW41011	7-50-5	
EW42001	7-54-26	XBGZZN
EW42006	7-54-63	PAGZZ
EW42009	7-51-53	PAGZZ
	7-54-10	
	7-54-15	
	7-54-38	
	7-54-59	
	7-54-71	
EW42011	7-54-48	PAGZZ
EW43002	7-50-25	
EW46001	7-51-23	PAGZZ
	7-51-31	
	7-54-7	
	7-54-12	
EW46002	7-51-2	PAGZZ
EW48001	7-53-9	XBGZZN
EW51010	7-52-20	PAGZZ
EW51011	7-51-28	PAGZZ
	7-51-35	
EW51012	7-49-3	
EW51013	7-49-11	
EW51014	7-49-25	
	7-50-7	
EW51015	7-50-27	
EW51016	7-50-30	
EW51018	7-48-12	XAGZZ
EW58001	7-51-75	XBGZZN
EW62001	7-52-19	
EW62003	7-52-15	
EW62004	7-52-22	
EW62005	7-52-2	
EW62006	7-52-25	
EW62007	7-49-2	
	7-49-7	
	7-50-23	
	7-50-29	
EW62008	7-49-5	
EW62009	7-49-24	
	7-49-27	
	7-50-6	
EW62010	7-49-28	

NUMERICAL INDEX (RSSK-1/1A EAST/WEST) (Cont)

Part Number	Figure and Index Number	SM&R Code
EW62010	7-50-10	
EW62011	7-50-32	
EW62012	7-50-33	
EW63001	7-53-21	
EW63002	7-53-24	
EW68001	7-53-27	
MS16625-4025	7-53-13	
MS171435	7-53-1	
MS171436	7-50-34	
MS20364-832A	7-51-6	
	7-51-27	
	7-51-34	
	7-51-46	
MS20392-1C9	7-50-14	
MS20407AD3-8	7-51-77	
MS20426AD4-6	7-54-31	
	7-54-34	
	7-54-52	
MS20470AD3-8	7-54-66	
MS20470AD4-5	7-54-41	
MS20480A4-7	7-51-63	
MS21209F1-15	7-52-26	
	7-54-28	
	7-55-13	
MS24665-1011	7-55-7	
MS24665-87	7-51-29	
MS24667-9	7-48-9	
MS24693-S3	7-55-2	
MS27039-0808	7-54-61	
MS28775-117	7-53-11	
MS35190-210	7-52-7	
	7-52-17	
MS35206-231	7-54-57	
MS35216-41	7-51-25	
	7-51-41	
MS35217-55	7-51-48	
MS51957-44	7-54-44	
MS51957-45	7-54-43	
MS51959-3	7-52-5	
MS51960-65	7-54-25	
MS51960-68	7-51-58	
MS51960-71	7-51-10	
MS51960-72	7-51-11	
MS51965-27	7-49-19	
	7-50-17	
MS51977-29	7-49-29	
	7-49-31	
	7-50-3	
	7-50-21	
MS51977-29	7-52-11	
MS90389-10	7-51-8	
MS9390-421	7-55-12	
MS9462-05	7-55-4	
NAS43DD3-16	7-51-39	
NAS620-5L	7-51-68	
015-11365-1	7-48-5	PAOZZ
10000474	7-54-21	
10000516	7-51-56	
	7-51-61	
10000711	7-51-70	
10000827	7-48-12	
10000942	7-51-18	
10000943	7-51-19	
102B814-11	7-53-16	PAGZZ
102B816-11	7-53-20	PAGZZ
102B817-11	7-53-17	PAGZZ
102B818-11	7-53-15	PAGZZ
102B819-11	7-53-14	PAGZZ
102B828-11	7-53-19	PAGZZ
102C279-1	7-51-74	PAOZZ
102C303-15	7-53-2	XBGZZ
102C383-11	7-53-22	
102C525-11	7-54-16	PAGZZ
102C526-11	7-54-20	XBGZZ
102C527-11	7-54-18	PAGZZ
102C527-13	7-54-19	PAGZZ
102C581-11	7-55-9	
102C582-11	7-55-10	
102C583-13	7-55-6	
102C584-11	7-55-3	
102C596-11	7-55-8	
102C597-13	7-55-1	
102C621-1	7-48-21	
102C701-15	7-51-71	XBGZZN
	7-54-17	
102C815-11	7-53-18	XBGZZ
102C821-11	7-53-10	XBGZZ
102C824-11	7-53-8	XBGZZ
102D450-3	7-54-51	
102D615-1	7-48-23	
102D620-3	7-48	
102D622-10	7-48-19	
102D622-3	7-48-20	
1195AS114-1	7-48-4	PAOZZ
15299	7-52-20	
183B102-11	7-50-15	
183B104-1	7-50-11	

NUMERICAL INDEX (RSSK-1/1A EAST/WEST) (Cont)

Part Number	Figure and Index Number	SM&R Code
183B108-11	7-49-23	
183B118-11	7-49-8	
183B119-16	7-49-9	
183B120-11	7-49-12	
183B121-11	7-49-13	
183B125-11	7-49-17	
183B201-11	7-50-1	
183B207-1	7-50-19	
183B209-1	7-50	
183B211-11	7-50-24	
183B212-11	7-50-26	
183C112-11	7-49-1	
183C113-11	7-49-4	
183C114-11	7-49-6	
183C115-1	7-49	
183C116-1	7-49	
183C117-1	7-49	
183C122-11	7-49-14	
183C123-11	7-49-15	
183C124-11	7-49-16	
183C129-11	7-49-30	
183C202-11	7-50-2	
183C202-13	7-50	
183C203-11	7-49-22	
	7-50-4	
183C204-11	7-49-26	
	7-50-8	
183C205-11	7-50-9	
183C206-1	7-50-16	
183C206-3	7-50-16	
183C206-5	7-50-16	
183C206-7	7-50-16	
183C208-1	7-50-20	
183C210-11	7-50-22	
183C213-11	7-50-28	
183C214-11	7-50-31	
183D100-1	7-48-6	
	7-49	
183D126-11	7-49-18	
183D127-1	7-49	
183D128-1	7-49-21	
183D130-11	7-49-32	
183D200-1	7-48-7	
	7-50	
183D215-11	7-50-35	
184C100-1	7-48-4	
19561	7-54-16	
19974	7-54-18	
19974-1	7-54-19	

Part Number	Figure and Index Number	SM&R Code
204B201-11	7-51-72	PAGZZ
204B277-11	7-52-8	PAGZZ
204B279-11	7-52-6	PAGZZ
204B280-11	7-52-24	PAGZZ
204B281-11	7-52-9	PAGZZ
204B282-11	7-52-21	PAGZZ
204B290-11	7-52-4	MDGZZ
204B291-11	7-52-23	PAGZZ
204B299-11	7-52-16	PAGZZ
204B419-11	7-53-23	
204B422-11	7-51-52	MDGZZ
	7-54-39	
	7-54-56	
	7-54-72	
204B827-11	7-53-28	
204B832-17	7-51-4	MDGZZ
204C211-11	7-51-59	PAGZZ
204C212-11	7-51-59	PAGZZ
204C213-11	7-51-65	MDGZZ
204C214-11	7-51-60	MDGZZ
204C215-11	7-51-62	MGGZZ
204C216-11	7-51-73	MGGZZ
204C225-1	7-51-56	MDGZZ
	7-51-61	
204C226-11	7-51-70	PAGZZ
204C263-11	7-52-12	PAGZZ
204C278-11	7-52-1	PAGZZ
204C289-1	7-54-11	PAGZZ
204C423-11	7-51-50	MDOZZ
	7-54-36	
	7-54-55	
	7-54-69	
204C424-11	7-51-15	MDGZZ
204C424-13	7-51-15	MDGZZ
204C424-15	7-51-15	MDGZZ
204C424-17	7-51-15	MDGZZ
204C424-19	7-51-15	MDGZZ
204C424-21	7-51-14	MDGZZ
204C480-1	7-51-1	XBOZZ
204C515-11	7-51-54	PAGZZ
	7-51-57	
204C521-13	7-54-23	PAGZZ
204C536-11	7-51-16	MDGZZ
204C554-11	7-48-11	XAGZZ
204C560-1	7-54-6	PAGZZ
204C570-1	7-54-5	PAGZZ
204C626-11	7-51-18	MDGZZ
204C627	7-51-19	MDGZZ
204C630-1	7-54-42	PAGZZ

NUMERICAL INDEX (RSSK-1/1A EAST/WEST) (Cont)

Part Number	Figure and Index Number	SM&R Code
204C633-11	7-54-64	MDGZZ
204C705-1	7-48-15	XAGZZ
204C710-1	7-47	XAGZZ
204C711-11	7-48-13	XAGZZ
204C712-11	7-48-14	XAGZZ
204C713-11	7-48-10	XAGZZ
204C720-11	7-54-40	MDGZZ
204C721-11	7-54-21	MDGZZ
204C722-11	7-54-30	MDGZZ
204C723-11	7-54-33	MDGZZ
204C778-11	7-54-49	MDGZZ
204C778-13	7-54-50	MDGZZ
204C902-11	7-52-3	MDGZZ
204C912-11	7-48-24	MDGZZ
204C923-11	7-54-73	MDGZZ
204C924-11	7-54-74	MDGZZ
204C926-1	7-54-54	
204C927-1	7-54-60	
204D125-11	7-51-76	XAGZZ
204D125-13	7-54-65	
204D250-1	7-51-47	PAGGG
	7-52	
204D260-1	7-52	XAGGG
204D261-11	7-52-13	PAGZZ
204D262-11	7-52-14	PAGZZ
204D264-11	7-52-18	PAGZZ
204D265-11	7-52-27	XAGZZ
204D266-1	7-52-10	PAGZZ
204D270-1	7-51-20	MGGZZ
204D275-1	7-51-30	PAGZZ
204D301-1	7-51-8	
204D420-1	7-54-67	XAGGG
204D501-11	7-48-17	XAGZZ
204D501-12	7-48-16	XAGZZ
204D518-13	7-51-40	XBGZZ
204D519-1	7-54	XAGGG
204D519-11	7-54-29	
204D550-1	7-48-8	PAGZZ
204D580-1	7-54-1	PAGZZ
	7-55	
204D587-1	7-55	
204D587-11	7-55-14	
204D601-1	7-48-1	XAGZZ
204D610-1	7-48-22	
204D620-1	7-51-22	PAGZZ
204D670-1	7-48	PAGZZ
204D671-1	7-48-2	
204D810-1	7-51-36	PAGGG
	7-53	
204D811-11	7-53-29	
204J200-1	7-48-18	XAGZZ
	7-51	
204J222-1	7-51-78	XAGZZ
204J400-1	7-48-25	XAGZZ
	7-54	
20415	7-51-28	
	7-51-35	
20430	7-53-27	
21006-9	7-51-47	
	7-52	
21007-5	7-48-7	
	7-50	
21133-7	7-48-6	
	7-49	
21190	7-51-65	
21673	7-54-42	
220C102-1	7-51-21	
230204-1	7-51-60	
233B823-11	7-53-3	XBGZZ
233B831-11	7-53-7	
233C820-11	7-53-6	
233C829-11	7-53-4	
233C830-11	7-53-5	
24859-01	7-54-64	
2688	7-53-21	
27490	7-51-62	
2832	7-51-4	
36C1326-1	7-54-68	
36D1258-1	7-48-22	MDOZZ
36H1323-10	7-48-19	MGGZZ
36H1323-3	7-48-21	MGGZZ
36H1323-31	7-48	
36H1323-34	7-48-20	MGGZZ
55056	7-52-10	
55457	7-51-50	
57685	7-51-75	
58250	7-51-23	
	7-51-31	
	7-54-7	
58468	7-51-2	
64A73E6-12	7-48-3	PAOZZ
67A73D7-3	7-54-54	PAGZZ
67A73D7-4	7-54-60	PAGZZ
67A73E6-11	7-48-3	PAOZZ
67A73J100-2	7-48	PAGGG
68A77D4-1	7-48-23	PAOZZ
9120097-27	7-53-22A	PAGZZ

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CHAPTER 8

RIGID SEAT SURVIVAL KIT-3

Section 8-1. Description

8-1. GENERAL.

8-2. The Rigid Seat Survival Kit-3 (RSSK-3) is designed for use with North American LS-1 ejection seats and functions as a seat for the aircrewman as well as a container for an emergency oxygen system, liferaft and survival equipment (figures 8-1 and 8-2). The kit is manufactured by North American Rockwell Corp. (P/N 249-53050-31).

8-3. CONFIGURATION.

8-4. The RSSK-3 is constructed of a bonded fiberglass body with an extruded metal lip interconnecting the upper and lower containers. The kit is opened by a handle mounted on the right side. A strap adapter on each side of the container and a slide fastener on the back of the container provide attachment of the kit to the aircrewman's parachute assembly. The upper container assembly houses a 22 cu in., 1800 psi, emergency oxygen cylinder capable of supplying just over 10 minutes of breathing oxygen for high altitude bailout. Or, in the event of a failure of the aircraft oxygen system, emergency oxygen is available by pulling the manual oxygen release on the kit. Oxygen then flows to the aircrewman through the emergency oxygen system reducer/manifold in the kit. The reducer/manifold is automatically actuated by separation of a cable attached to the cockpit deck during ejection. The lower container houses the liferaft and survival equipment.

8-5. The composite disconnect is a two-piece unit mounted on the left side of the ejection seat. The disconnect functions to join the oxygen hose, g-suit hose and electrical connections from the aircraft to the aircrewman. The two halves of the disconnect are secured together by a retaining pin. A lanyard, attached between the retaining pin and the cockpit deck, functions to separate the two halves during upward movement of the seat (figure 8-3).

8-6. When seated aboard the aircraft, the aircrewman connects the kit and oxygen outlet (kit-to-mask) hose to his torso suit. The personal service leads are connected via the composite block on aircraft seat. The leads can be quickly disconnected by pulling the leads at the disconnect point.

8-7. SUBASSEMBLIES. The major subassemblies of the RSSK-3 are:

1. Emergency Oxygen System
2. Upper and Lower Containers
3. Release Mechanism
4. Dropline

8-8. REFERENCE NUMBERS, ITEMS AND SUPPLY DATA.

8-9. Figures 8-16 through 8-20 contain information on each assembly, subassembly and component part of the RSSK-3. The figure and index number, reference or part number, description and units per assembly are provided.

8-10. APPLICATION.

8-11. The RSSK-3 is part of the survival equipment used by aircrewman aboard T-2 series aircraft.

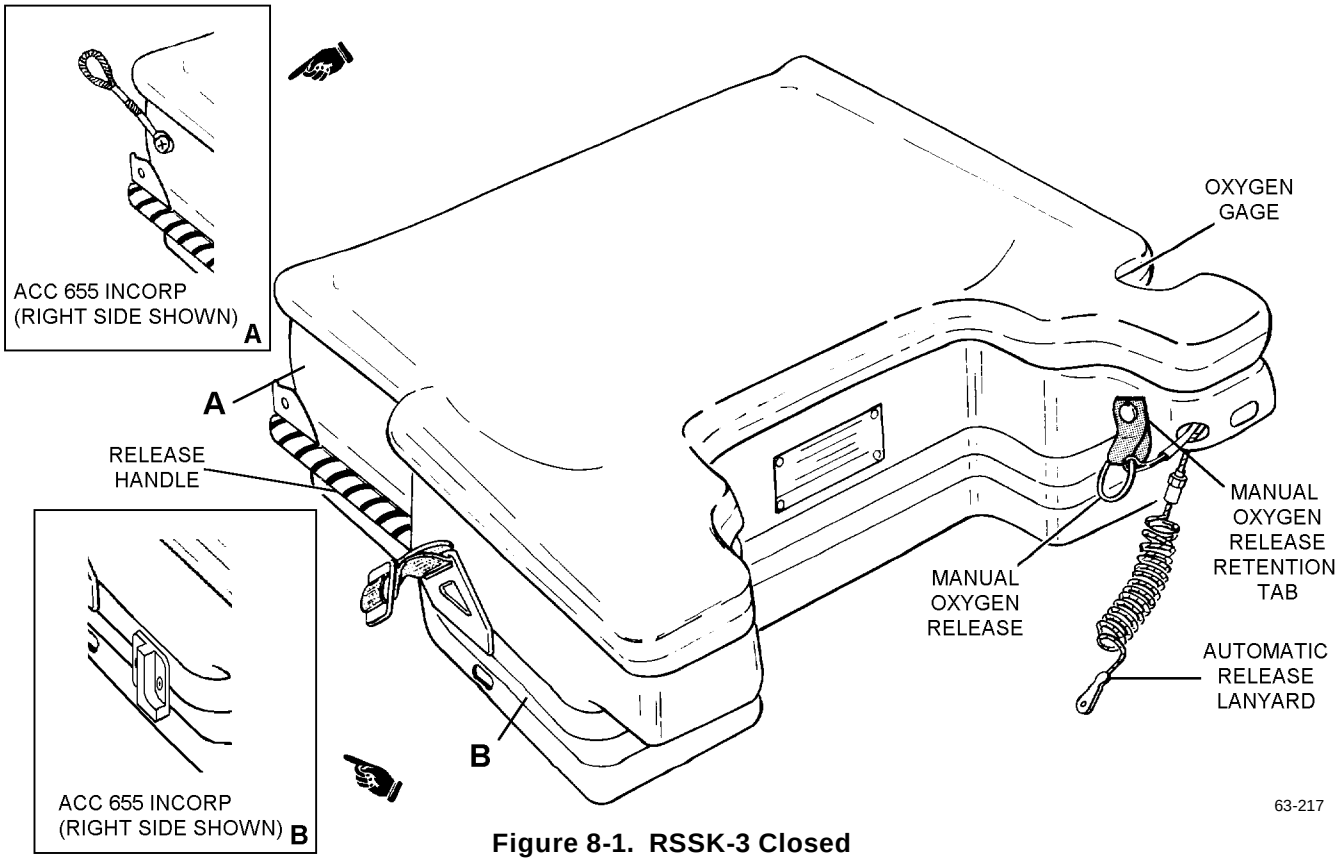


Figure 8-1. RSSK-3 Closed

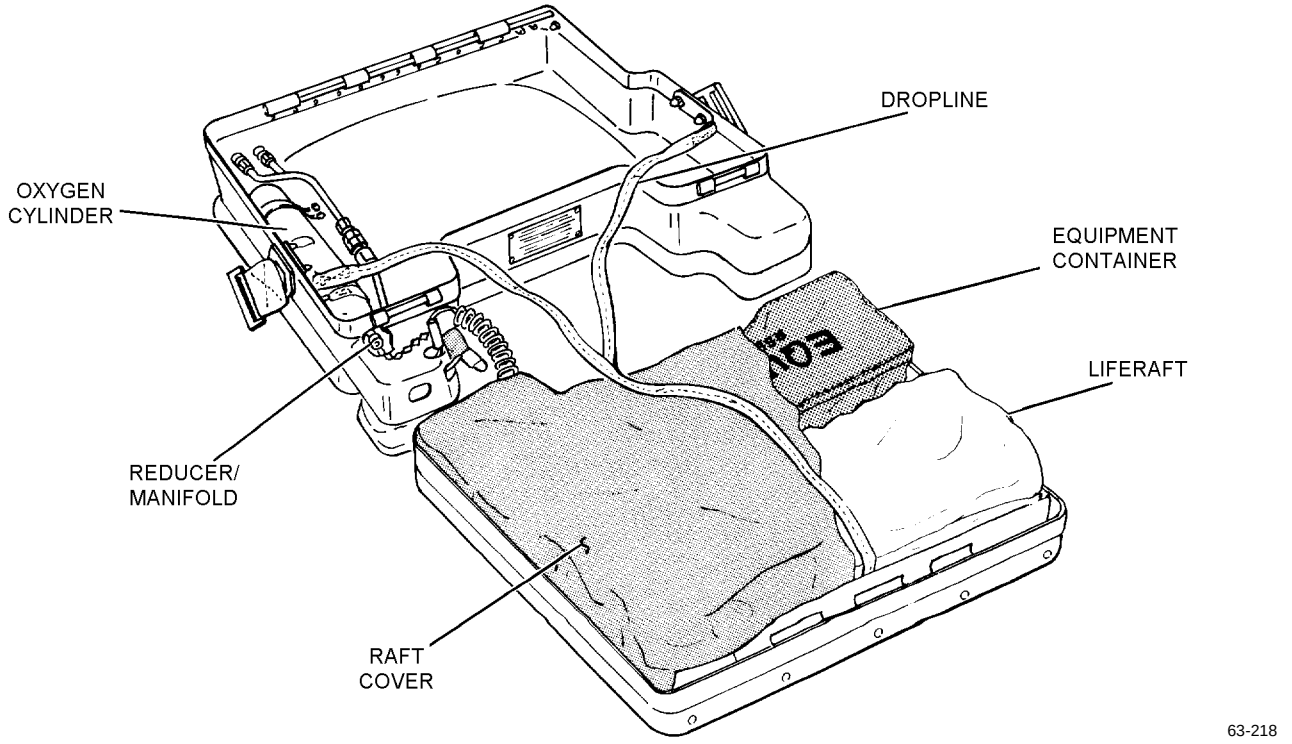


Figure 8-2. RSSK-3 Open

8-12. FUNCTION.

8-13. When the aircrewman ejects from the aircraft, the following functions occur:

1. The composite disconnect (figure 8-3) is separated by a lanyard attached to the cockpit deck. The top half remains with the seat; the lower half remains in the cockpit. When the two halves separate, a check valve in the oxygen port of the top half closes and prevents emergency oxygen from flowing overboard.

2. The automatic actuation lanyard for the emergency oxygen system actuates the reducer assembly at seat ejection. The aircrewman is then supplied emergency oxygen for descent (figure 8-4).

NOTE

If automatic actuation of emergency oxygen fails, emergency oxygen may be obtained by pulling the manual oxygen release.

3. The radio beacon is also actuated by an automatic actuation lanyard upon seat ejection. The beacon provides a continuous signal during descent.

4. When the aircrewman reaches a safe altitude, and wishes to deploy survival kit, he pulls the kit release handle free of the kit. This unlocks the containers and the lower half falls away but remains attached to the upper container by the dropline assembly. The liferaft, attached to the dropline, is automatically inflated as snubbing action of dropline actuates liferaft inflation assembly.

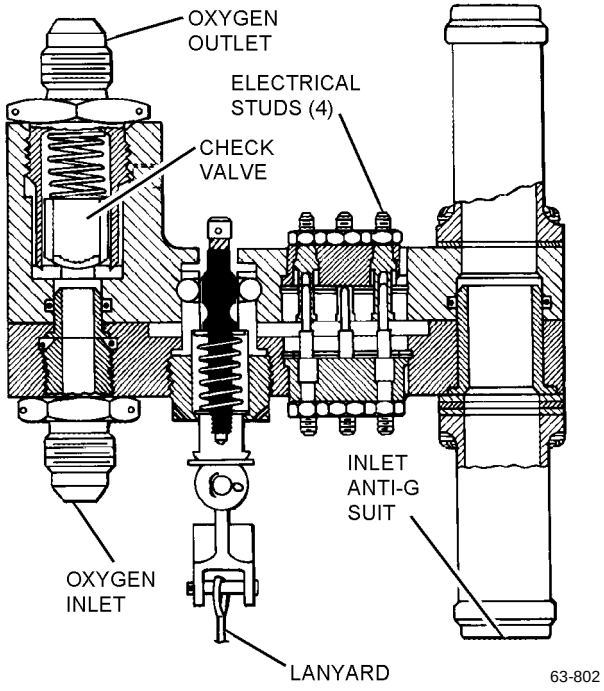


Figure 8-3. Composite Disconnect

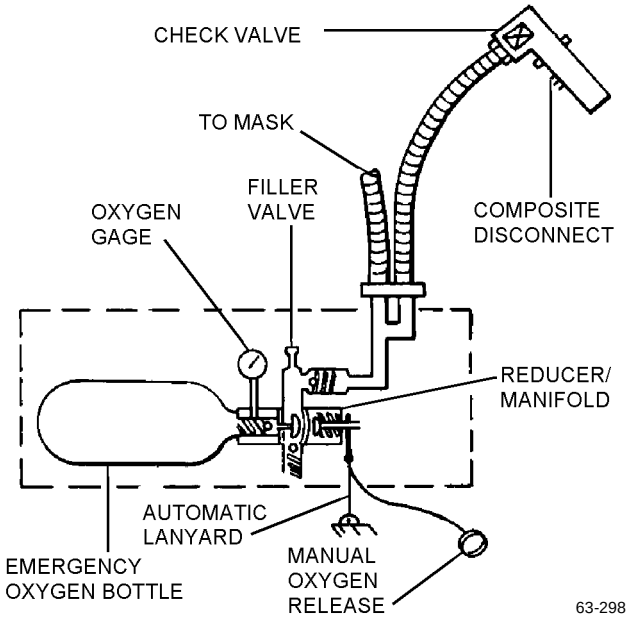


Figure 8-4. Oxygen Schematic

Section 8-2. Modifications

8-14. GENERAL.

8-15. The RSSK-3 shall be updated by comparing the configuration of the assembly with the directives listed in table 8-1.

Table 8-1. RSSK-3 Directives

Description of Modification	Application	Modification Code
Installation of AN/URT-33 Emergency Radio Beacon and Replacement Instructions for Dropline.	All RSSK-3 Survival Kits	66-161, Part VII, Amend. 1
Installation of Negative g Retention Brackets and Cable Assemblies	All RSSK-3 Survival Kits	66-655

Section 8-3. Rigging and Packing

8-16. GENERAL.

8-17. Unless operational requirements demand otherwise, rigging and packing of the RSSK-3 shall be accomplished at the Intermediate Level of maintenance by qualified personnel every 448 days.

NOTE

Quality assurance steps are provided for critical operations. When a step is underlined, the Aircrew Survival Equipmentman shall perform the operation and then have performance verified by Quality Assurance (QA).

8-18. RIGGING AND PACKING PROCEDURES.

8-19. Rigging and Packing of the RSSK-3 is accomplished in eight separate operations as follows:

1. Preliminary Procedures
2. Radio Beacon Rigging and Installation
3. Survival Equipment Binding
4. Survival Equipment Packing
5. Stowing Dropline
6. Liferaft Preparation, Folding, Rigging and Packing
7. Closing Container
8. Cockpit Routing and Installation of the Emergency Radio Beacon Lanyard

8-20. PRELIMINARY PROCEDURES. The following preliminary procedures shall be accomplished prior to rigging and packing the RSSK-3.

1. Ensure RSSK-3 and components have been inspected in accordance with Section 8-5.
2. Inspect oxygen hose assemblies in accordance with Chapter 4.

3. Remove upper container assembly from lower container assembly.

4. Remove liferaft cover. Inspect liferaft cover for damaged fabric and loose, broken, or frayed stitching.

WARNING

CO_2 bottle is under pressure. Use caution when disconnecting CO_2 bottle from liferaft. Do not loosen or attempt to remove inflation valve assembly from CO_2 cylinder.

CAUTION

Ensure actuating line is disconnected from CO_2 cylinder inflation valve before removal of CO_2 cylinder from liferaft.

5. Disconnect CO_2 cylinder from liferaft as follows:

a. Carefully remove liferaft from container.

b. Disconnect actuation line from CO_2 cylinder.

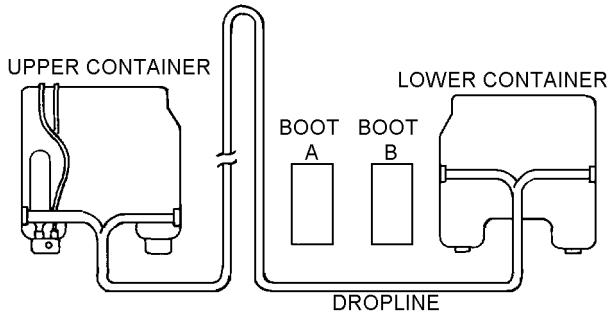
c. Disconnect CO_2 cylinder from liferaft.

d. Remove large loop of drop line from CO_2 cylinders neck.

e. Ensure anti-chafing disc is installed. Reconnect CO_2 cylinder to liferaft finger tight. If functional test is required torque valve 80 to 90 in-lbs.

6. Ensure liferaft and CO_2 cylinder have been inspected in accordance with NAVAIR 13-1-6.1-1.

7. Remove dropline from boots and align kit components on a clean flat surface as shown.



63-318

Step 7 - Para 8-20

NOTE

A newly fabricated or procured dropline assembly will have a final dimension of 26 feet, 4 inches ±2 inches. However, a dropline assembly is subjected to a certain amount of stretch during its stowing process, and shrinkage during its cleaning process, therefore a tolerance of ±12 inches is acceptable for an older dropline assembly.

8. Inspect dropline to ensure proper attachment to upper and lower containers. Also ensure dropline length is 26 feet, 4 inches ±12 inches.

9. Ensure survival items have been inspected in accordance with NAVAIR 13-1-6.5.

NOTE

Ensure battery service life does not expire prior to the next scheduled inspection cycle of the assembly in which the radio set is installed. Refer to NAVAIR 16-30URT33-1 for battery service life.

10. Remove radio beacon set from kit and ensure that the battery and radio beacon have been inspected in accordance with NAVAIR 16-30URT33-1.

11. Check seat pan and cushion assembly for cuts, tears, and abrasions, and hardware for security of attachment, corrosion, damage, wear, and ease of operation.

8-21. RADIO BEACON RIGGING AND INSTALLATION. To rig and install the AN/URT-33 Emergency Radio Beacon, proceed as follows:

Materials Required

Quantity	Description	Reference Number
1	Beacon Set, Radio AN/URT-33A	MIL-B-38401A
1	Actuator Indicator Assembly	P/N CL204D3-11 (CAGE 80206) NIIN 00-127-5597
1	Pin, Cotter, Hairpin	LHCOTC (CAGE 96652) NIIN 00-956-5635

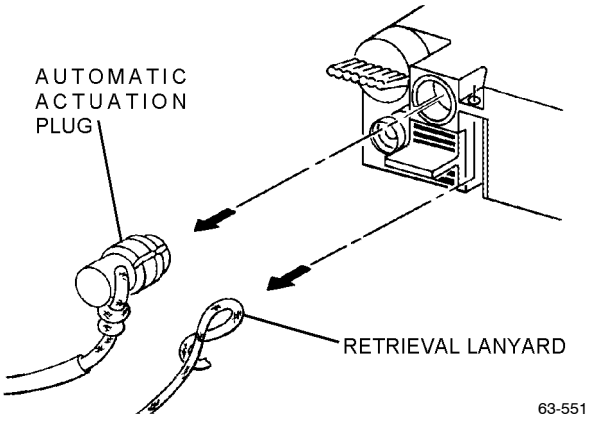
NOTE

Ensure that slide switch on radio beacon is OFF. Slider switch is in OFF position when word ON is not visible on radio beacon housing.

Determine if beacon has been modified in accordance with steps 1 through 3 before proceeding to step 4.

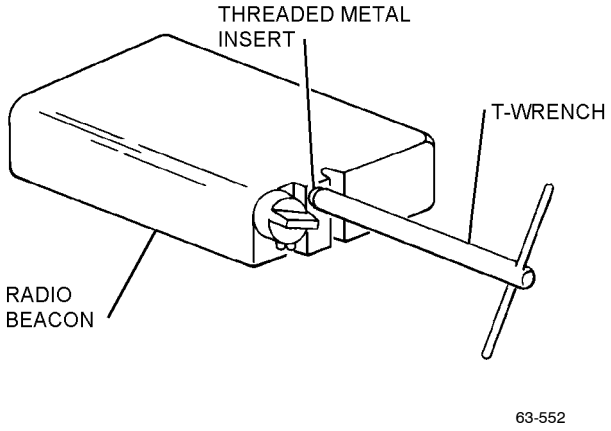
Retain automatic actuation plug, lanyard, and metal insert in shop area for possible future use.

1. Remove and retain automatic actuation plug and lanyard. Remove and discard retrieval lanyard.



Step 1 - Para 8-21

2. Remove threaded metal insert from beacon using locally manufactured T-wrench. (See paragraph 8-68 for fabrication of T-wrench).



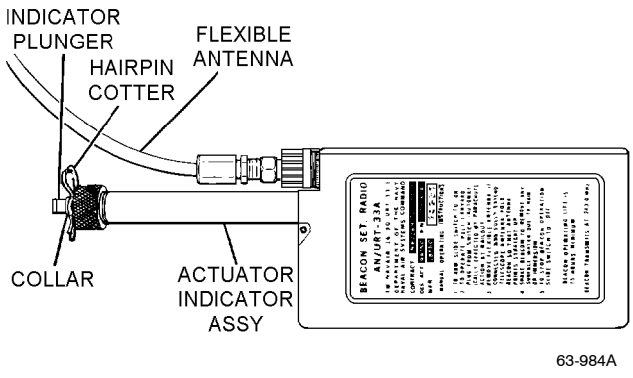
Step 2 - Para 8-21

3. Connect flexible antenna to radio beacon. Push bayonet type fitting in and turn to the right.

4. Install actuator indicator assembly handtight into hole in beacon from which threaded metal insert was removed.

5. Depress plunger, align holes in plunger and collar, and insert temporary hairpin cotter. (See paragraph 8-70 for fabrication of temporary hairpin cotter.)

6. Ensure hairpin cotter and collar are free to rotate 360° without binding. If hairpin cotter and collar are free, proceed to step 7. If hairpin cotter and collar do not rotate, refer to NAVAIR 16-30URT33-1.

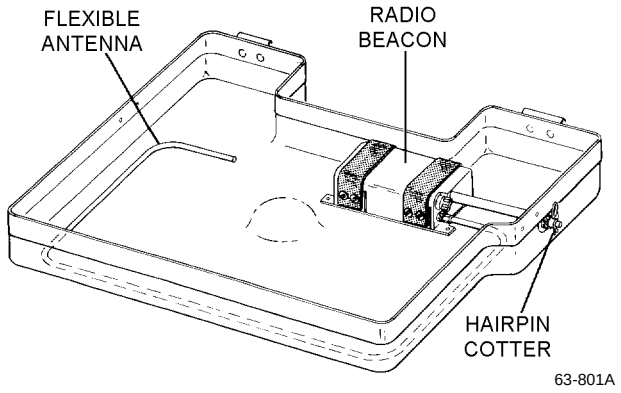


Step 6 - Para 8-21

NOTE

To prevent accidental transmission of inaudible emergency distress signal, ensure indicator plunger is secure in depressed position before beacon ON/OFF slider switch is placed in ON (armed) position.

7. Place ON/OFF slider switch in ON (armed) position and install beacon in bracket in lower container. Position beacon so end of indicator plunger, collar, and hairpin cotter extend through opening in side of lower container. Ensure slider switch is secure in the ON position under the finger bar of bracket assembly, then secure beacon with hook and pile tape fasteners.



Step 7 - Para 8-21

8. Route flexible antenna around periphery of lower container.

8-22. SURVIVAL EQUIPMENT BINDING. Ensure all survival items have been inspected in accordance with NAVAIR 13-1-6.5 Technical Manual before binding. To bind survival items, proceed as follows (table 8-2).

NOTE

To prevent loss of survival items, tie to 140-inch length of nylon cord. Nylon cord of prescribed lengths required for this procedure shall be seared at both ends to prevent fraying (table 8-3).

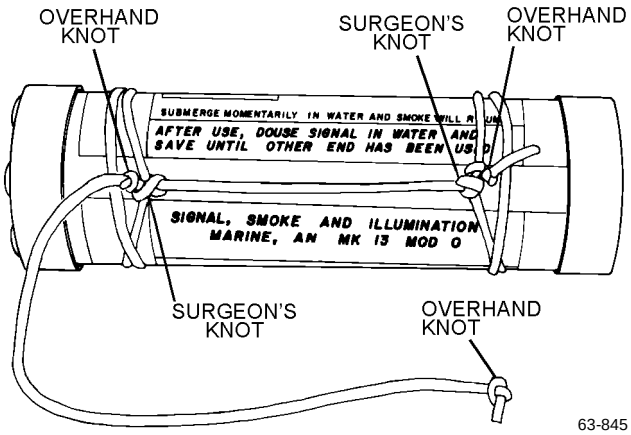
All cord used shall be nylon (MIL-C-5040, Type I).

1. Using 36-inch piece of nylon cord, tie overhand knot in each end. Wrap end of cord two overlapping turns around end of signal flare (MK-13 MOD 0 or MK-124 MOD 0) and tie with surgeon's knot positioned snugly against cord-end overhand knot.

NOTE

The cord between end-ties shall be drawn tight.

2. Route cord to opposite end of signal flare. Wrap cord two overlapping turns around flare and tie with surgeon's knot followed by an overhand knot positioned snugly against surgeon's knot.



Step 2 - Para 8-22

Table 8-2. Survival Kit Items (Note 1)

Item Name	Quantity	Reference Number
Cord, (Nylon), Fibrous, Type I	50 ft	NAVAIR 13-1-6.5
Signal, (Flare), Smoke and Illumination, MK-13 MOD 0 or MK-124 MOD 0 (Note 2)	2	NAVAIR 13-1-6.5
Sea (Dye) Marker, Fluorescein	2	NAVAIR 13-1-6.5
Sponge, (Bailing), Cellulose Type II, Class 2	1	NAVAIR 13-1-6.5
SRU-31/P Survival Kit, Packet #1 (Medical) (Note 3)	1	NAVAIR 13-1-6.5
SRU-31/P Survival Kit, Packet #2 (General) (Note 3)	1	NAVAIR 13-1-6.5
SRU-31A/P (Note 5)	Optional	NAVAIR 13-1-6.5
Water, Drinking, Canned	1	NAVAIR 13-1-6.5
Water, Drinking, Emergency (Note 4)	3	NAVAIR 13-1-6.5
Opener, Can, Hand	1	NAVAIR 13-1-6.5
Ground/Air Emergency Code Card	1	NAVAIR 13-1-6.5
Envelope, Packing List	2	NAVAIR 13-1-6.5
Beacon Set, Radio	1	NAVAIR 13-1-6.5
Liferaft, Inflatable	1	NAVAIR 13-1-6.1-1

Notes:

1. The items listed are typical and are considered mandatory for inclusion in the survival kit container. Deviation from the listed items may be required by certain Functional Air Wings (FUNCWINGS), Carrier Air Wings (CVW), COMFAIRS, or Marine Air Wings (MAW). Requests for deviations must be forwarded to and authorized by TYCOMS and with information to Fleet Support Team (FST) at NAVAIR-WARCENACDIV Patuxent River MD via Naval Message. When optional items are substituted, particular attention must be paid to the binding sequence so that physical sizes and binding order of substituted items remain approximately the same. That portion of an item name in parentheses is a common-use name or container size and is not intended for supply requisition purposes.
2. MK-13 MOD 0 shall be used until stocks are depleted. MK-124 MOD 0 will replace MK-13 MOD 0 as stocks become available.
3. SRU-31/P complete kits including Medical Packet (#1) and General Packet (#2) may be ordered; instructions for packing and ordering these kits are found in NAVAIR 13-1-6.5.
4. When the supply for emergency canned water has been exhausted, order emergency bagged water in accordance with NAVAIR 13-1-6.5.
5. The selection of SRU-31/P or SRU-31A/P Individual Aircrewmember's Survival Kit will be at the discretion of the TYPE COMMANDER depending on mission requirements, reference NAVAIR 13-1-6.5, Chapter 9, for detailed information.

Table 8-3. Nylon Cord Lengths Required for Binding

Length (Inches)	No. Required
140	1
12 (Note 1)	4
30	1
36	2
40	2
50 (Note 1)	1

Notes: 1. When using bagged water in place of canned emergency water, the number of required 12 inch lengths will be a total of 5 and the required 50 inch lengths will be a total of 0.

3. Tie second signal flare in same manner as in steps 1 and 2.

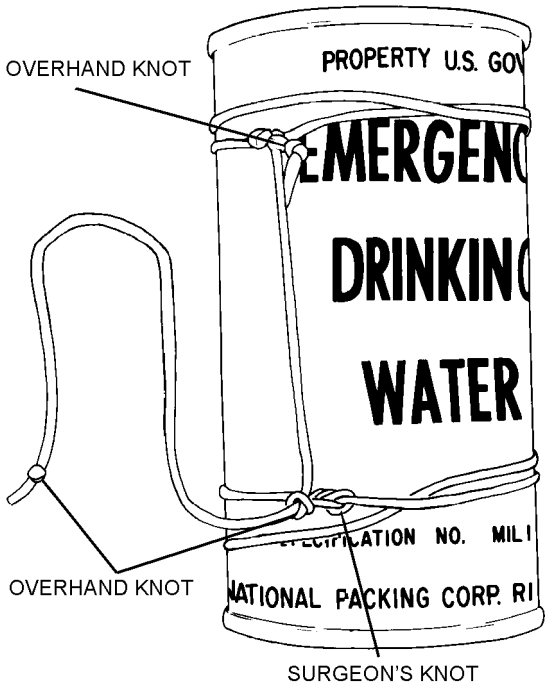
4. Using 12-inch piece of nylon cord, tie overhand knot near each end. Pass overhand knot through center grommet in dye marker and tie bowline knot, allowing approximately a 1-inch loop. Bowline knot shall lie snugly against overhand knot.

63-695

Step 4 - Para 8-22

5. Tie second sea dye marker in same manner as step 4.

6. Using 50-inch piece of nylon cord, tie overhand knot near both ends. Wrap one end of cord two overlapping turns around end of canned water and tie with surgeon's knot positioned snugly against cord-end overhand knot. Route cord to opposite end of can. Wrap cord two overlapping turns around end of can and tie with surgeon's knot followed by an overhand knot positioned snugly against surgeon's knot. Cord between end-ties shall be drawn tight.



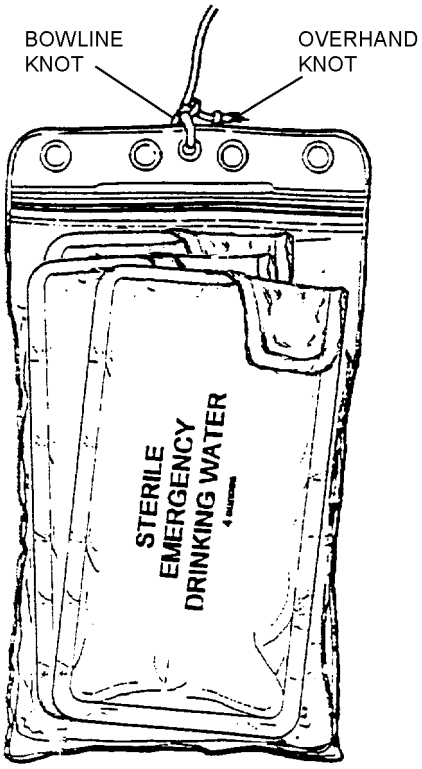
63-697

Step 6 - Para 8-22

NOTE

Replacement rate of exhausted canned water shall be in accordance with the NAVAIR 13-1-6.5 manual. Bagged emergency drinking water shall be stowed in the same order as canned emergency water. The bags of water shall be stowed in a flat configuration.

7. Bagged water. Place a maximum of three 4-ounce bagged emergency drinking water flat inside a clear vinyl envelope (MIL-B-117) with pour spout folded down. Bagged water must be able to fit into envelope without disrupting the closure of the sealing slide fastener. Using a 12-inch length of cord, tie an overhand knot on each end and pass knot through center hole in envelope. Secure with bowline knot, allowing an approximate 1-inch loop. Position an overhand knot snugly against the bowline knot. Ensure overhand knot is snug against surgeon's knot.

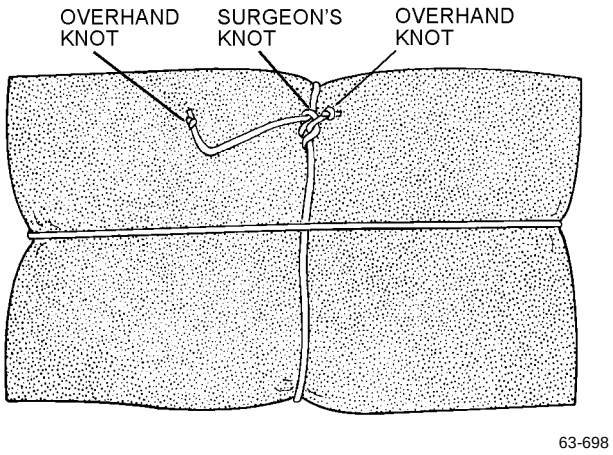


Step 7 - Para 8-22

NOTE

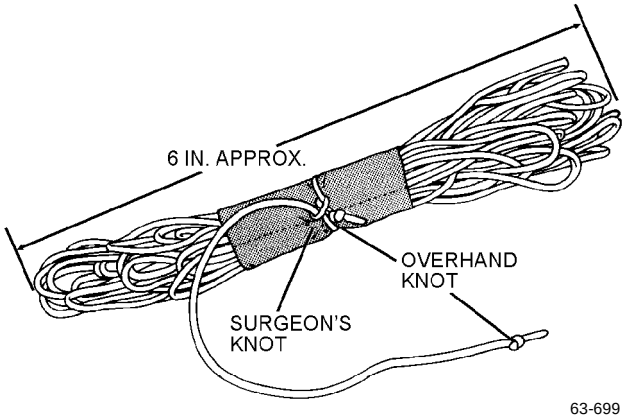
The bailing sponge should be compressed to a minimum thickness by compressing while damp and then allowing to dry in the compressed state before tying.

8. Using a 30-inch length of nylon cord, tie an overhand knot near the ends. Wrap cord around sponge until cord ends meet, then rotate cords 1/4 turn and wrap cords around opposite side of sponge. Tie with a surgeon's knot. Ensure that cord-end overhand knot rests snugly against surgeon's knot.



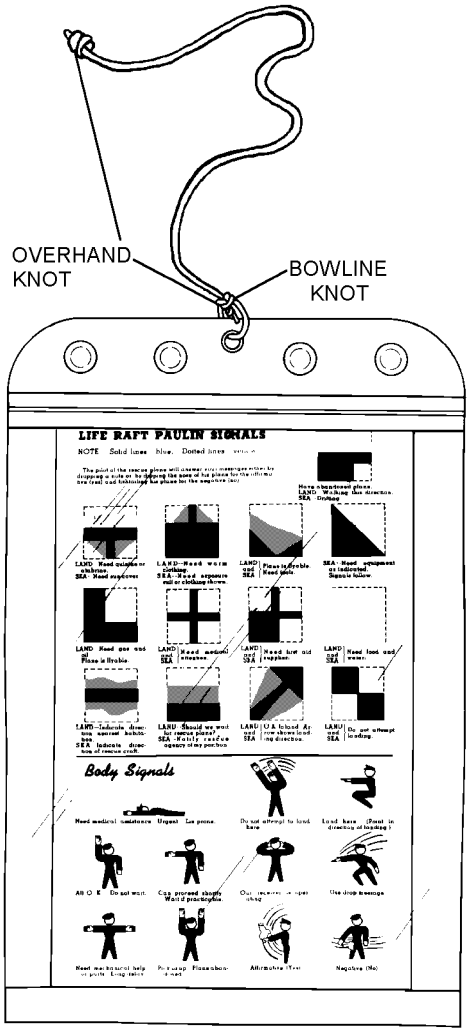
Step 8 - Para 8-22

9. Cut one 2 x 3-inch piece of nylon duck material. Accordion fold the 50-foot length of nylon cord in 6-inch bights, and wrap material around center of accordion fold cord. Using a 12-inch piece of nylon cord, tie an overhand knot near each end and secure one end of the cord to center of material with a surgeon's knot. Ensure that cord-end overhand knot rests snugly against surgeon's knot.



Step 9 - Para 8-22

10. Place Ground/Air Emergency Code Card into clear vinyl plastic envelope (MIL-B-117) and close the sealing zipper. Using a 12-inch piece of nylon cord, tie an overhand knot in one end and pass knot through center hole in envelope. Secure with a bowline knot, allowing a 1-inch loop. Cord-end overhand knot shall rest snugly against bowline knot.



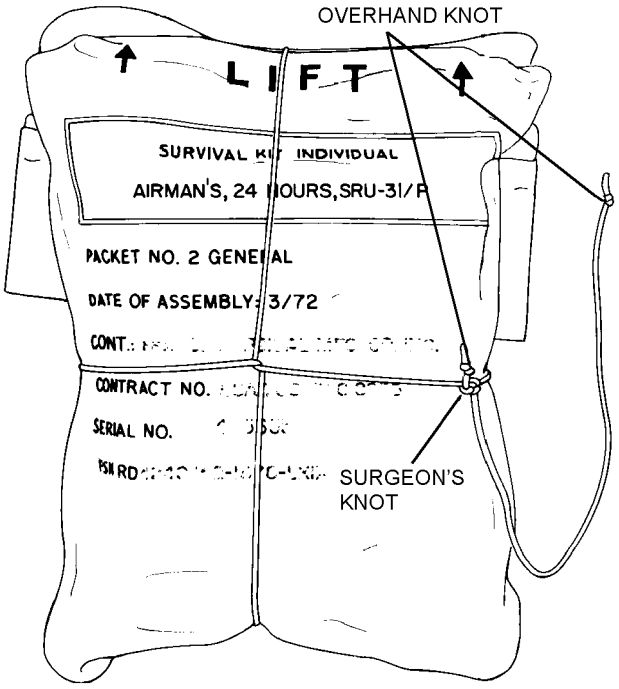
63-700

Step 10 - Para 8-22

NOTE

Fold SRU-31/P Survival Kit #1 (Medical) approximately in half prior to tying.

11. Using a 40-inch length of nylon cord, tie an overhand knot in both ends. Wrap cord around one packet of SRU-31/P Survival Kit until cord ends meet, then rotate cords 1/4-turn and wrap cords around opposite sides of packet. Tie with a surgeon's knot positioned snugly against cord-end overhand knot.



63-701

Step 11 - Para 8-22

12. Secure the second SRU-31/P packet in the same manner as step 11.

13. Check to ensure proper binding of survival items.

14. Using the 140-inch piece of Type I nylon cord, form an overhand loop approximately 12 inches from one end. Continue making these loops every 5 inches until a total of 10 loops are completed.

15. Tie each item to a loop with a surgeon's knot. Keep knots snugly together.

CAUTION

Ensure pointed end of can opener has adequate chafing cloth to prevent damage to the other survival items.

16. Route 12-inch end of the 140-inch cord through the hole in the can opener and secure with a 1-inch loop bowline knot, followed by an overhand knot drawn snugly against bowline knot. Wrap can opener with chafing cloth secured by a rubber band (figure 8-5).

8-23. SURVIVAL EQUIPMENT PACKING. To pack survival equipment, proceed as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Cord, Nylon Type III, 550-Pound	MIL-C-5040 NIIN 00-240-2146
As Required	Thread, Nylon, Type II, Class A Size E	V-T-295 NIIN 00-244-0609

NOTE

There are two authorized equipment containers which can be used in the RSSK-3 Survival Kit. Because of differences in packing of survival equipment and securing of container to dropline, it is mandatory to first establish which equipment container is being used. After equipment container configuration is established, proceed to step 1 or step 2, whichever is applicable.

1. Pack and secure survival equipment container, P/N 68A77D4-1, as follows:

a. Place equipment container on table with attaching loops facing packer and the word EQUIPMENT facing up.

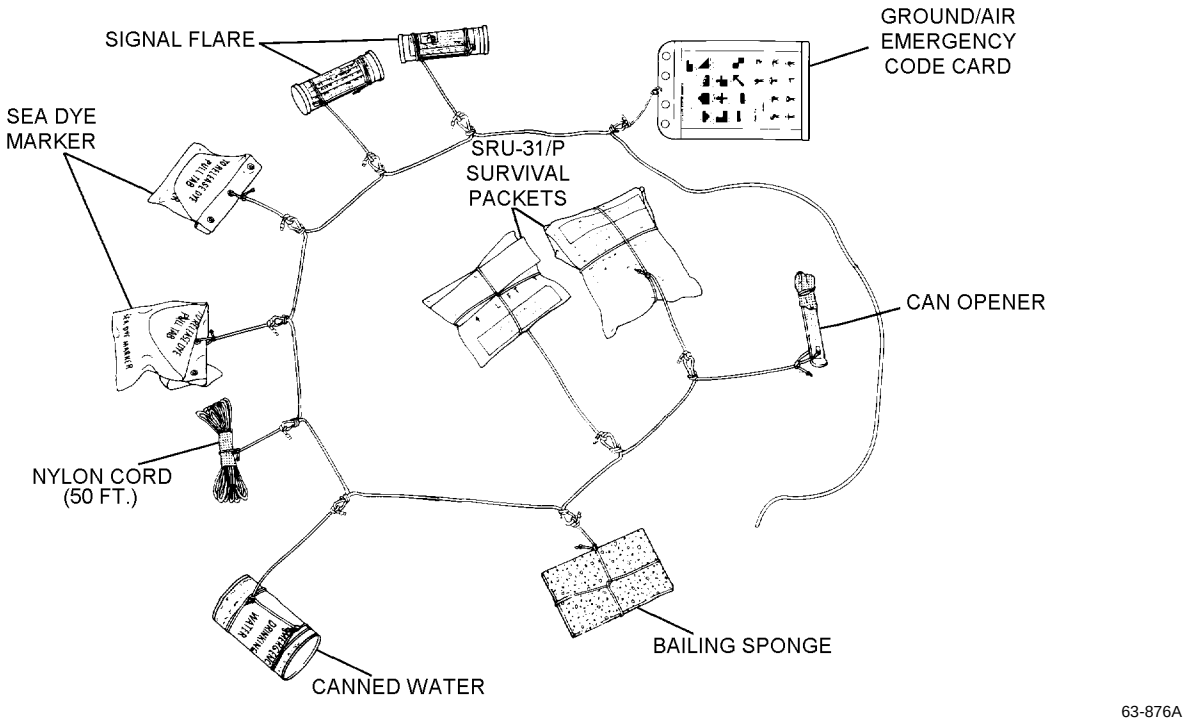
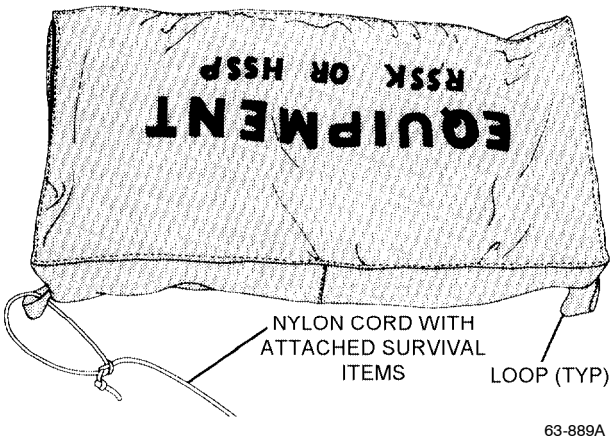


Figure 8-5. Binding Survival Items

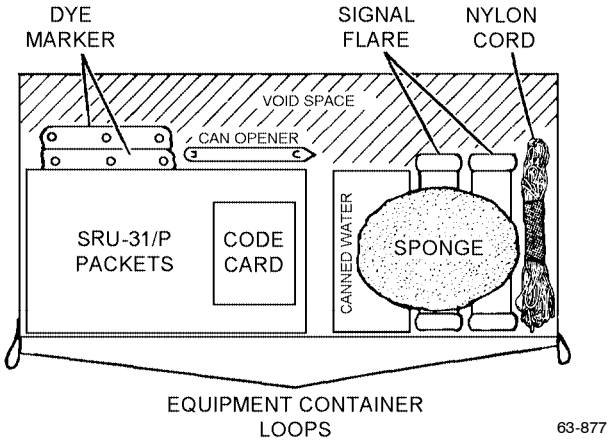
b. Attach bitter end of 140-inch nylon cord (with attached survival items) to the left loop on equipment container using a bowline knot (approximately 2-inch loop) with cord-end overhand knot positioned snugly against bowline knot.



Step 1b - Para 8-23

c. Open equipment container by opening left slide fastener to the right.

d. Stow survival items into equipment container in a neat and orderly fashion so as to obtain the flattest possible pack. Ensure a void space is left in forward area of container as shown.



Step 1d - Para 8-23

e. Close equipment container.

NOTE

All tacking cord shall be coated with a mixture of 50% beeswax and 50% paraffin. The cord may be dipped in a melting pot 160° to 200°F or drawn across a solid block of the mixture.

f. Cut a 52 ±1-inch piece of nylon cord, Type III, MIL-C-5040, and sear ends. Secure cord to equipment container and dropline as shown in figure 8-6.

g. Place equipment container in forward section of lower container half, on top of radio beacon with slide fastener facing forward. Ensure equipment container is located as far forward as possible (figure 8-6).

2. Pack and secure survival equipment container, P/N 249-530110, as follows:

a. Place equipment container on table with slide fastener facing up and carrying strap away from packer.

b. Attach bitter end of 140-inch nylon cord (with attached survival items) to carrying strap using a bowline knot with cord-end overhand knot positioned snugly against bowline knot.

c. Open equipment container by moving left slide fastener to right.

d. Stow survival items into equipment container in neat and orderly fashion to obtain flattest possible pack.

e. Close equipment container.

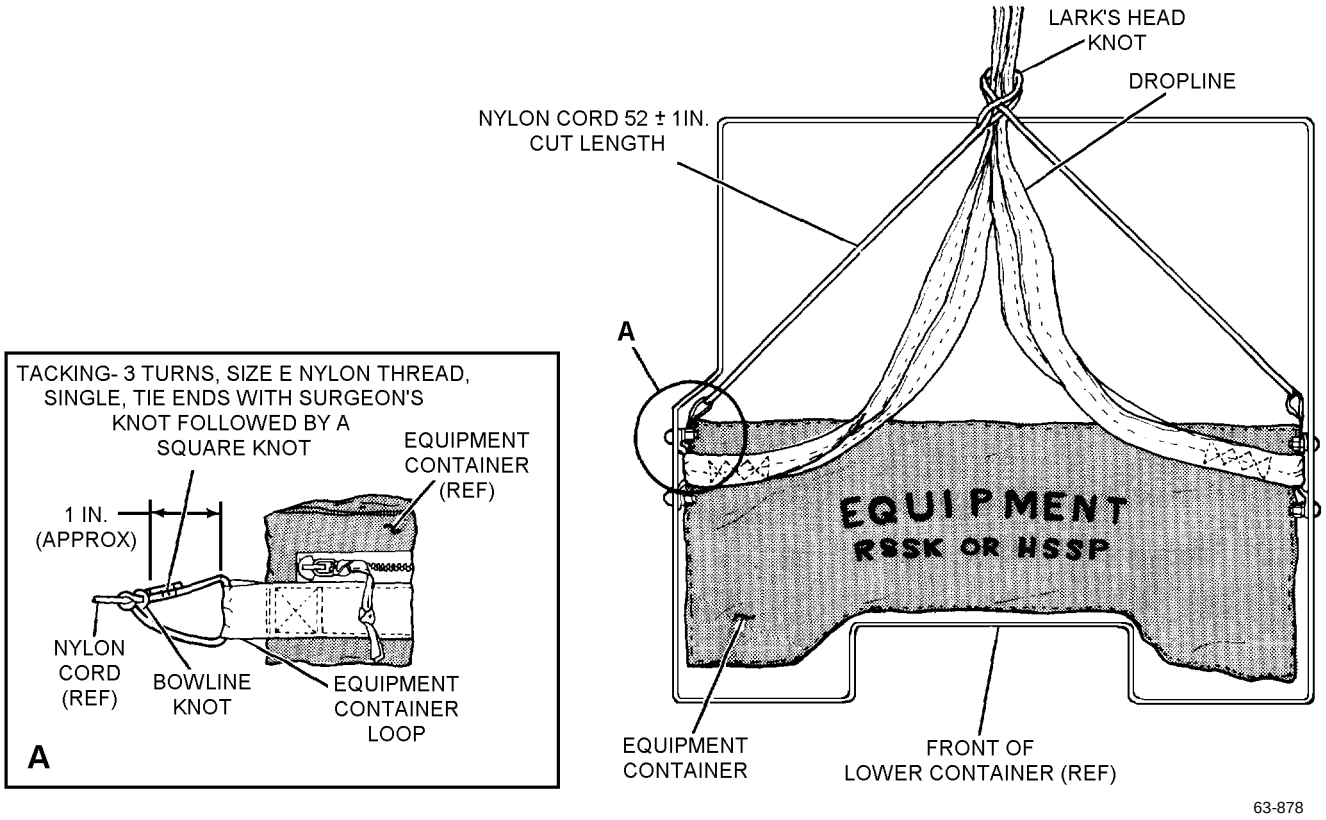


Figure 8-6. (Equipment Container P/N 68A77D4-1) Stowed Survival Equipment

NOTE

Ensure equipment container is inverted. When packed into lower container, slide fastener must be facing down. This will prevent possible chafing of liferaft by slide and snap fasteners.

f. Invert equipment container and place on top of the thigh supports of lower container.

g. Cut two 22-inch lengths of 550-pound nylon cord, and sear ends.

h. Attach one end of each cord to the carrying strap with a bowline knot. Tack the short end from each bowline knot with three turns of waxed, size E nylon thread; tie ends with surgeon's knot followed by a square knot (figure 8-7).

i. Separately route the free end of the two 22-inch cords through the loops at each end of the dropline where the dropline is attached to the lower container by footman brackets.

j. Attach each 22-inch cord to the loop with a bowline knot, and secure each knot by tacking the short end with three turns of waxed, size E nylon thread. Tie ends with surgeon's knot followed by a square knot (figure 8-7).

k. Place equipment container in forward section of lower container half, on top of radio beacon. Ensure equipment container is located as far forward as possible with slide fastener facing down.

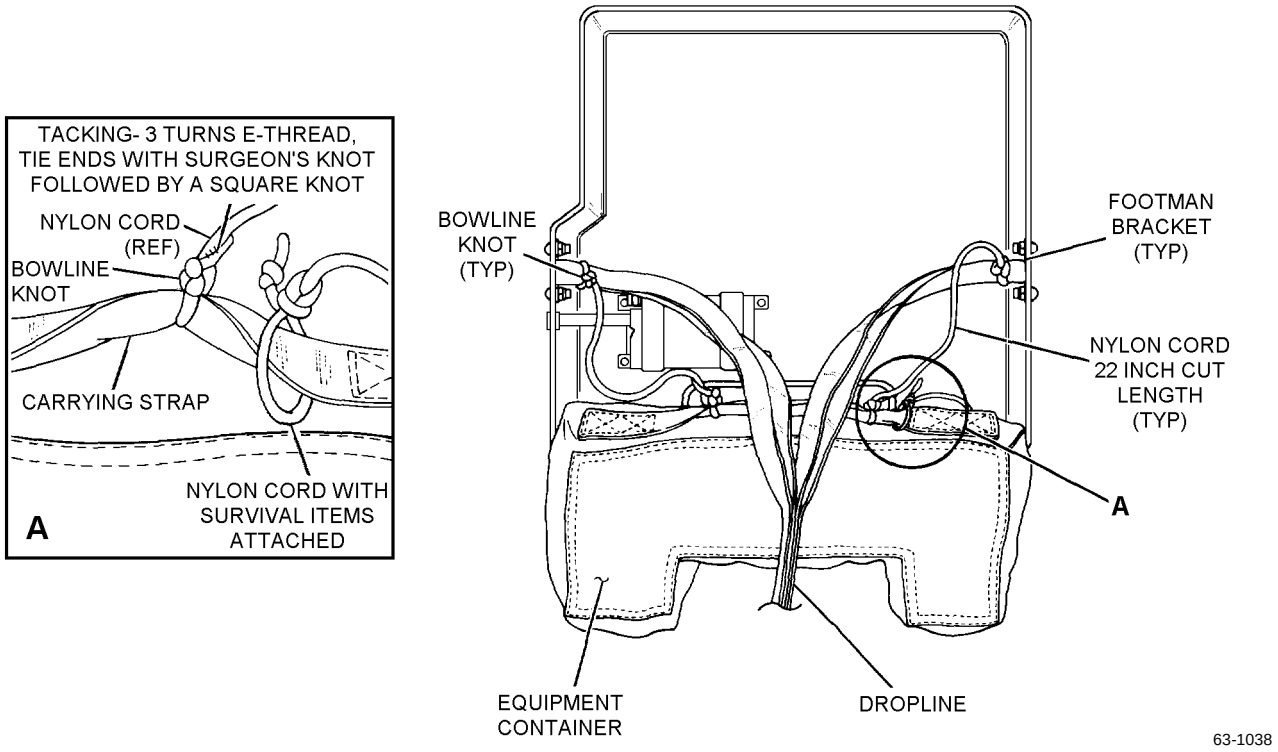


Figure 8-7. Attachment of Equipment Container to Dropline

8-24. STOWING DROPLINE. To stow dropline in boots, proceed as follows:

NOTE

Stowage boots are referred to as boot A and boot B for identification purposes only. There are no physical differences between boots and the letters A and B do not actually appear on them.

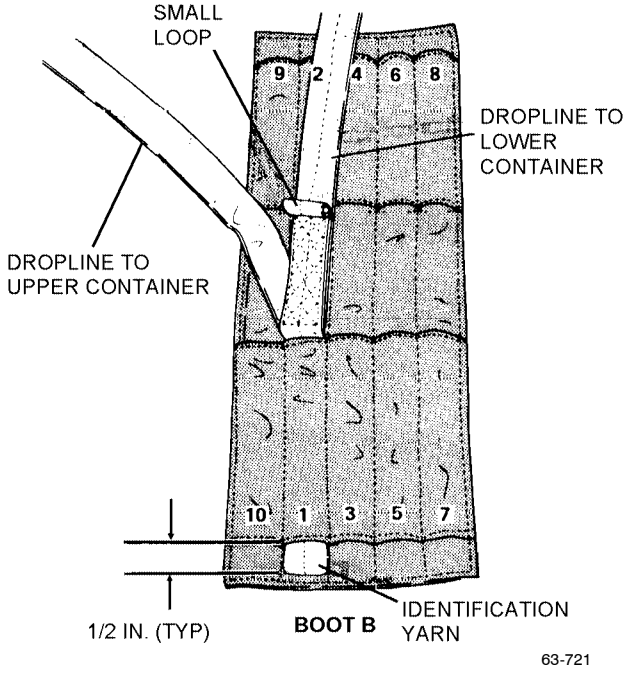
Numbers on stowage channels of boots correspond to dropline bights and the order in which they are to be stowed. Numbers appear in illustrations for clarity; they do not actually appear on stowage boots.

The identification yarn on earlier fabricated dropline assemblies may be located on the underside of the webbing. However, procedural steps depicting identification yarn location will be reversed throughout the dropline stowage procedures for these assemblies. Future fabrication of the dropline for the RSSK-3 will be in accordance with paragraph 8-66.

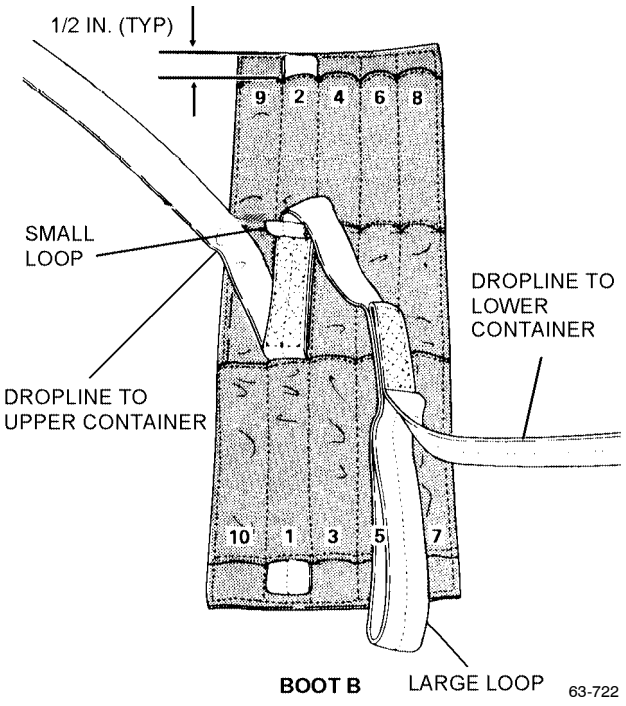
1. Lay dropline out flat between container halves with dropline loops facing up. Remove all twists from dropline prior to beginning stowing operation.

2. Position boot B to the left of lower container. Form the first bight 5 ±1/2 inch from base of small loop stitching. Bight shall be in position of dropline going to upper container and small loop shall face up. Stow bight in channel 1 of boot B. Push bight in channel with a 7-inch length of 3/8-inch hardwood dowel tapered at one end. There shall be a 1/2-inch protrusion at end of channel, and identification yarn shall be visible at protrusion.

3. Second bight shall be found in portion of dropline going from small loop to large loop and shall be stowed in channel 2. Identification yarn shall not show at protrusion.

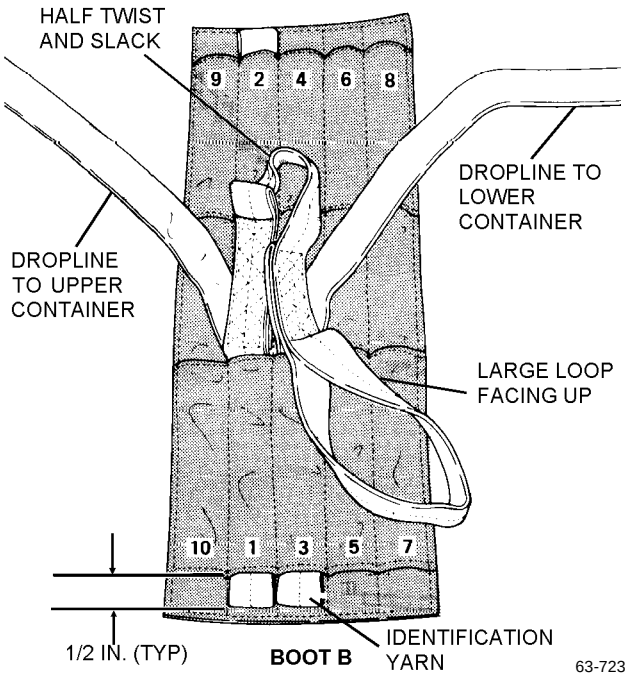


Step 2 - Para 8-24



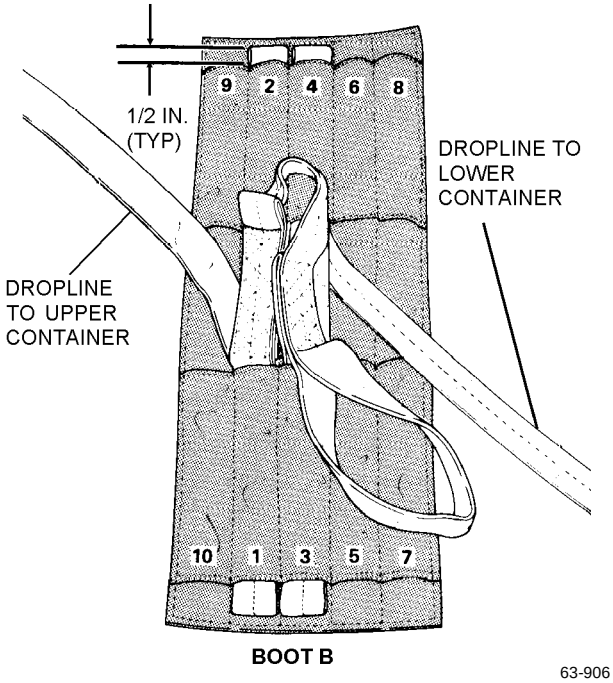
Step 3 - Para 8-24

4. Place a half-twist in dropline by rotating clockwise so that large loop faces up. Stow third bight in channel 3. A small amount of slack may exist between bights 2 and 3. Identification yarn shall be visible at protrusion.



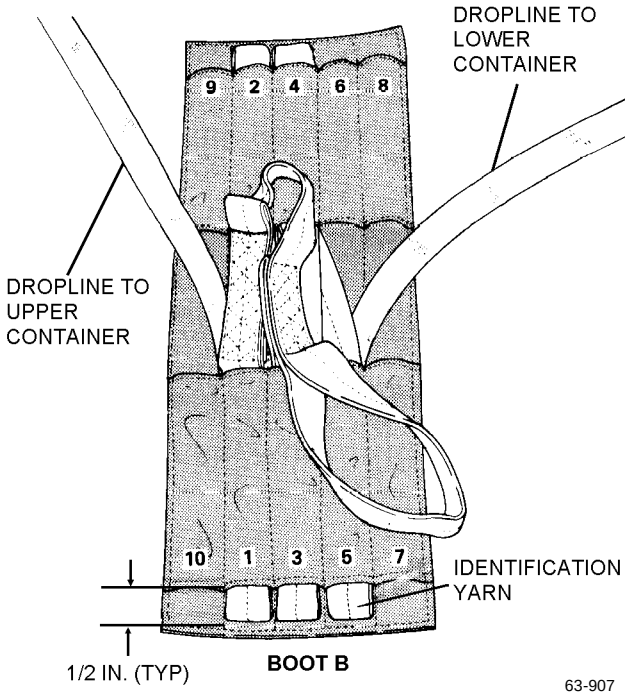
Step 4 - Para 8-24

5. Stow fourth bight in channel 4, ensuring that identification yarn does not show at protrusion.



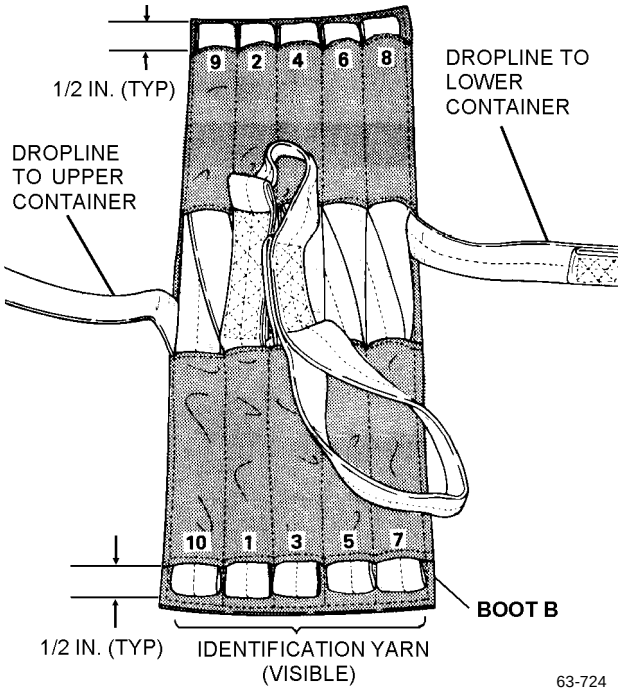
Step 5 - Para 8-24

6. Stow fifth bight in channel 5, ensuring that identification yarn is visible at protrusion.



Step 6 - Para 8-24

7. Stow remainder of dropline in boot B in accordance with numbering sequence on boot as shown, maintaining 1/2-inch protrusion. If there is insufficient line, due to allowable tolerance in length of dropline, a full stow may be impossible in channel 8.

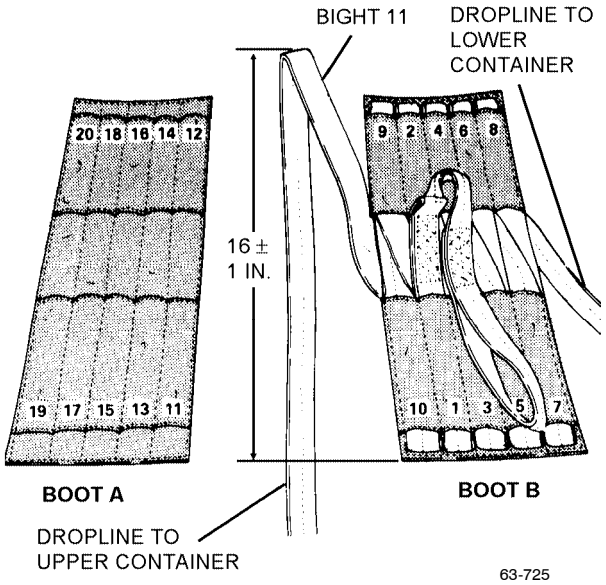


Step 7 - Para 8-24

NOTE

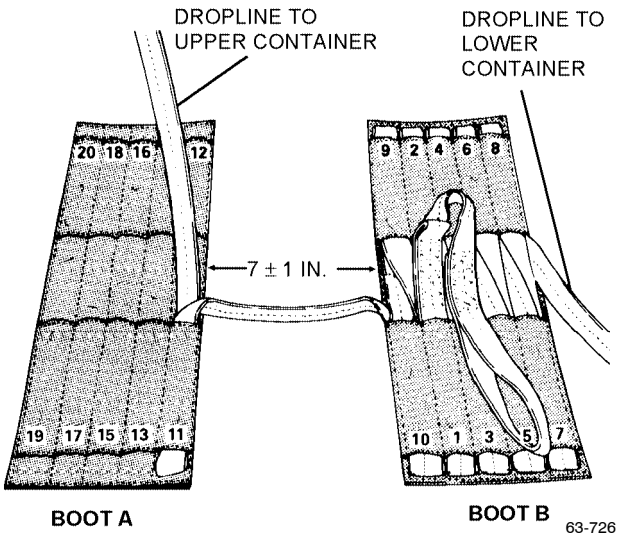
Upon the completion of step 7, identification yarn shall be visible at channels 1, 3, 5, 7 and 10 and shall not show at channels 2, 4, 6, 8 and 9.

8. Form bight 11 in dropline 16 ±1 inch from bottom of last bight (bight 10) in boot B.



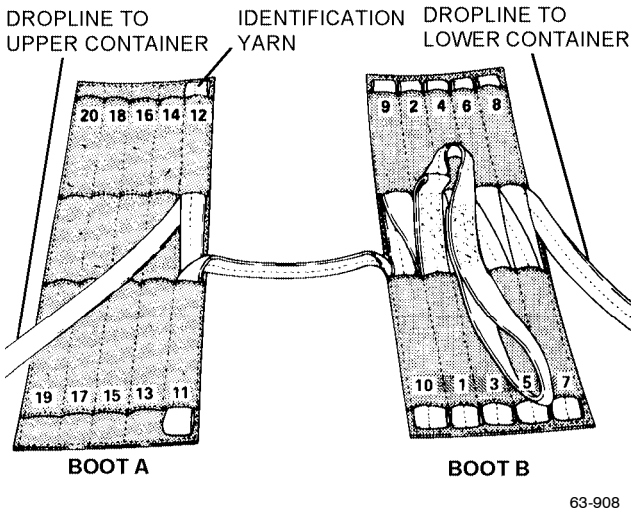
Step 8 - Para 8-24

9. Stow bight 11 (formed in step 8) in channel 11 of boot A. There shall be 7 ±1 inch of dropline between boots A and B when bight 11 is stowed. Identification yarn shall not show at protrusion.



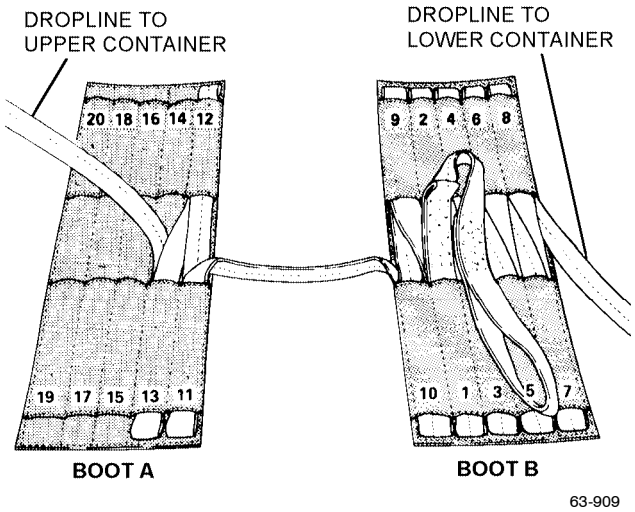
Step 9 - Para 8-24

10. Stow bight 12 in channel 12 of boot A. Identification yarn shall be visible at protrusion.



Step 10 - Para 8-24

11. Stow bight 13 in channel 13. Identification yarn shall not show at protrusion.



Step 11 - Para 8-24

12. Continue stowing bights in boot A until all line is stowed. Maintain 1/2-inch protrusion (figure 8-8).

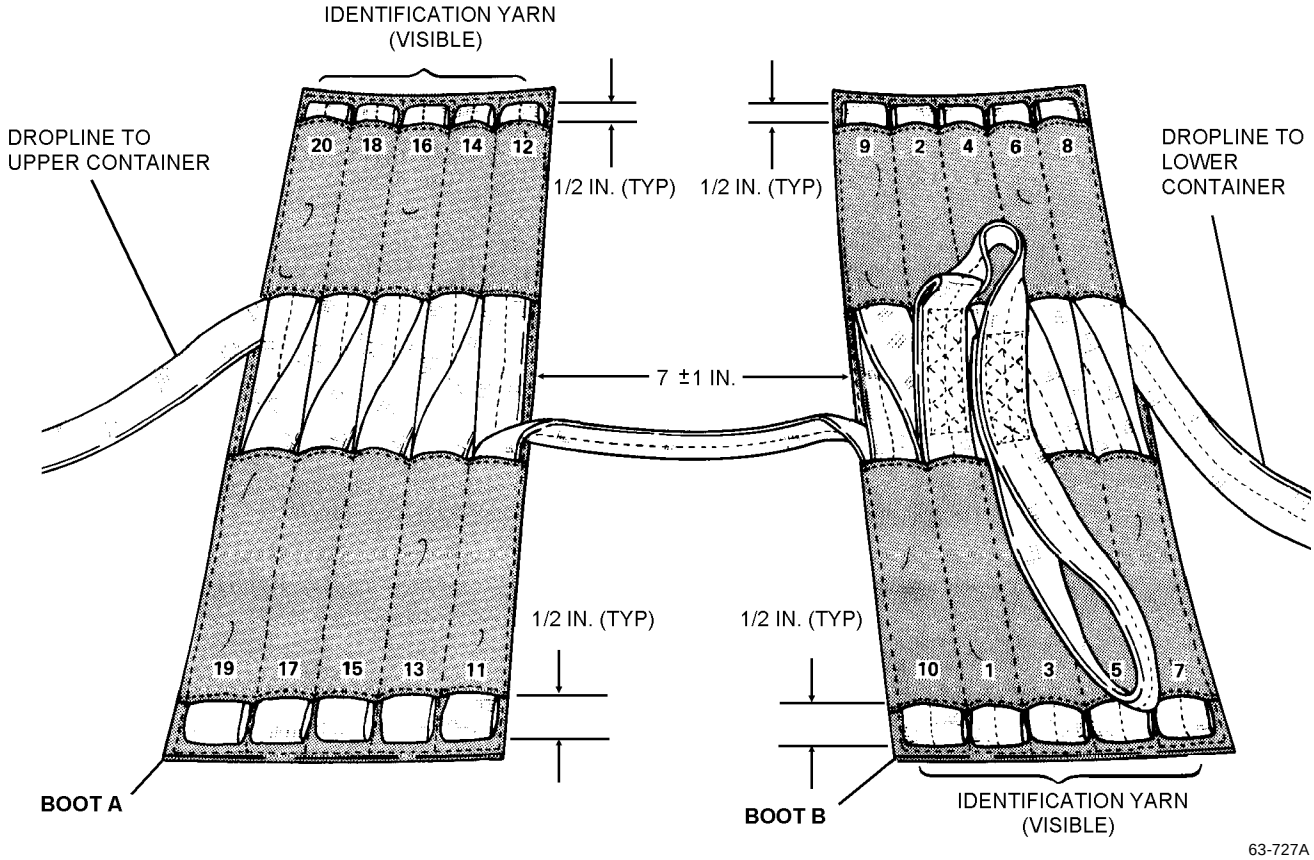


Figure 8-8. Stowage of Dropline

NOTE

Upon the completion of step 12, identification yarn shall be visible at channels 12, 14, 16, 18 and 20 and shall not show at channels 11, 13, 15, 17, and 19.

13. (CDI) Ensure all stows are properly formed and that there are no twists in dropline.

8-25. LIFERAFT PREPARATION, FOLDING, RIGGING AND PACKING. To prepare, fold, rig and pack the LR-1 liferaft, proceed as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Thread, Nylon Type II, Class A, Size E	V-T-295 NIIN 00-244-0609
As Required	Cord, Nylon Type III, 550-Pound	MIL-C-5040 NIIN 00-240-2146
As Required	Talc, Technical	MIL-T-50036
As Required	Thread, Nylon Type II, Class A, Size 6	V-T-295 NIIN 00-559-5211

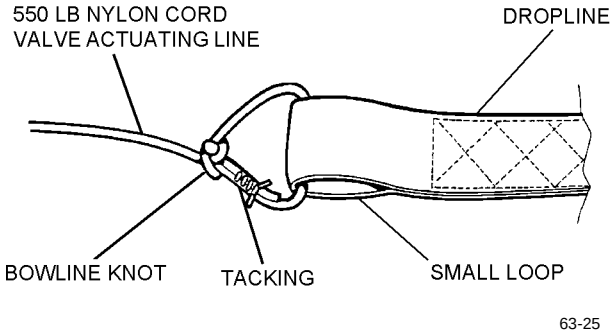
Support Equipment Required

Quantity	Description	Reference Number
1	Wrench, Torque 0-150 Lb. In.	TE-6FUA (CAGE 55729)

1. If the valve actuating line is damaged, incorrectly installed or not installed, install new line in accordance with steps 2 and 3.

2. Cut a 15-inch length of 550-pound nylon cord and sear ends.

3. Route one end through small loop on dropline and tie bowline knot. Tack with three turns of waxed, size E nylon thread, single. Tie ends with surgeon's knot followed by square knot.



Step 3 - Para 8-25

4. Lay liferaft assembly flat with inside facing upward (step A, figure 8-9).

5. Ensure all trapped air is expelled from liferaft. Ensure oral inflation valve is locked and stowed in pocket prior to folding.

6. Lightly dust entire liferaft assembly with talc.

7. Secure sea anchor line in 3-inch bights, fold and stow in pocket (step B, figure 8-9).

8. Roll and secure weathershield (step C, figure 8-9).

9. Fold liferaft.

NOTE

Maximum width of folded liferaft shall not exceed width of RSSK-3 container.

a. Fold stern of liferaft over approximately 4 inches (step D, figure 8-9).

b. Fold liferaft over at rear of CO_2 cylinder (step E, figure 8-9).

c. Fold bow of liferaft over to fold formed in step b (step F, figure 8-9).

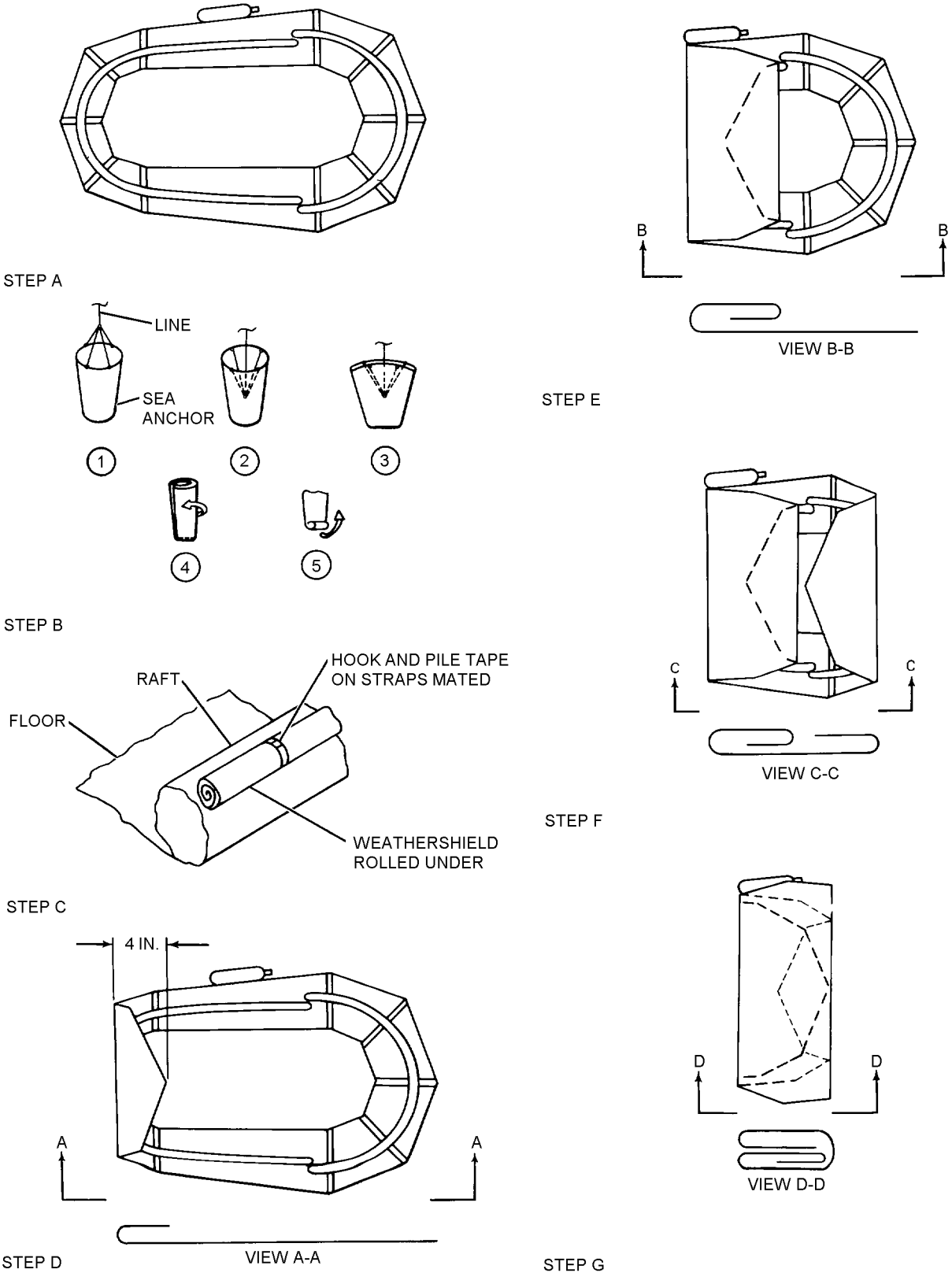
d. Fold bow portion of liferaft over on top of previous folds. Maximum width of folded liferaft shall not exceed width of RSSK-3 container. Adjust folds as necessary (step G, figure 8-9).

10. Turn folded liferaft over. Place liferaft assembly forward of lower container with CO_2 cylinder positioned toward lower container and facing up. Inflation valve assembly shall face release handle side of survival kit.

WARNING

Gas under pressure. Do not loosen or attempt to remove inflation valve assembly from CO_2 cylinder.

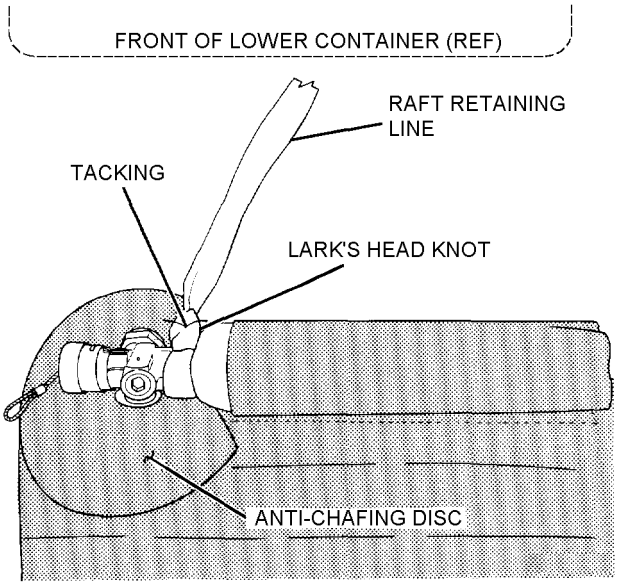
11. Disconnect inflation valve from inlet valve of liferaft. Do no remove cylinder from stowage pocket. Retain anti-chafing disc on inlet check valve.



63-708

Figure 8-9. Folding Liferaft

12. Attach liferaft retaining line to neck of cylinder with lark's head knot. Pull knot tight and tack with two turns of waxed nylon thread, size 6, single. Tie ends with surgeon's knot followed by square knot.



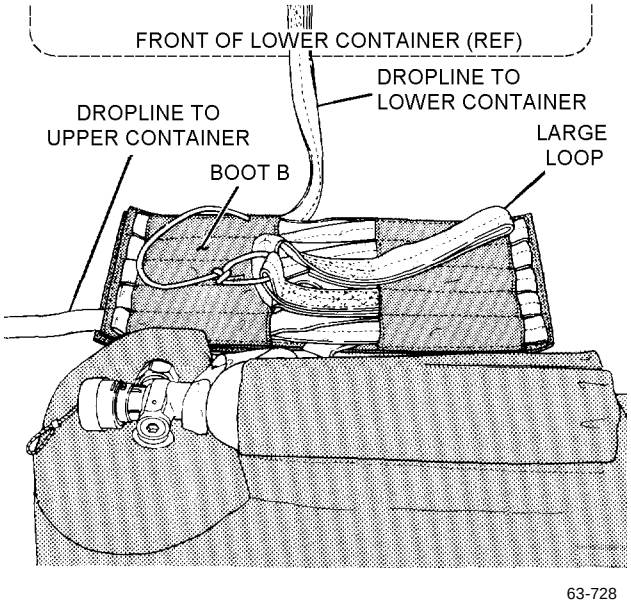
Step 12 - Para 8-25

13. Accordion-fold remainder of retaining line and stow in liferaft retaining line pocket. Close pocket enclosure tab and secure hook and pile tape.

NOTE

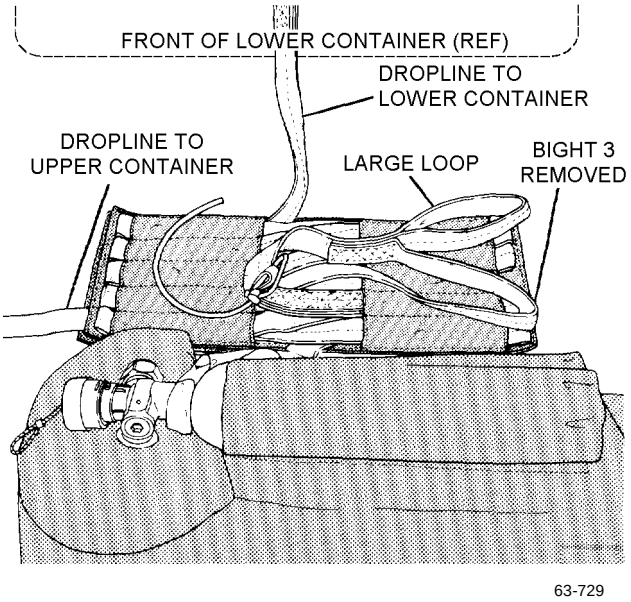
When repositioning boots, it may be necessary to move upper container. Make adjustments as necessary.

14. Position boot B on top of boot A and place boots between liferaft and lower container with large loop of dropline facing to the right.



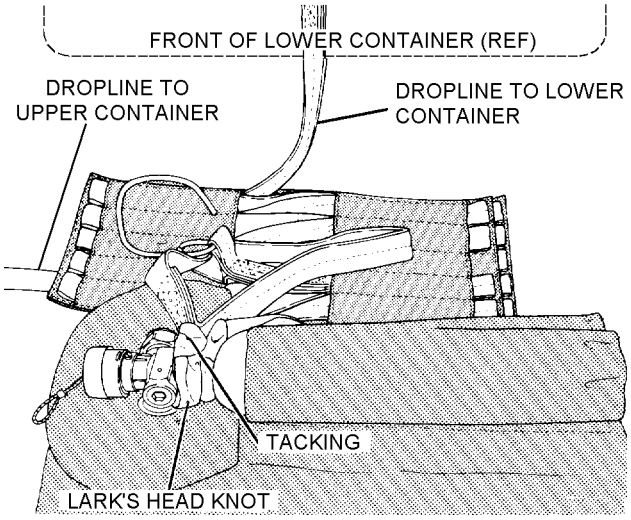
Step 14 - Para 8-25

15. Remove bight from channel 3, boot B.



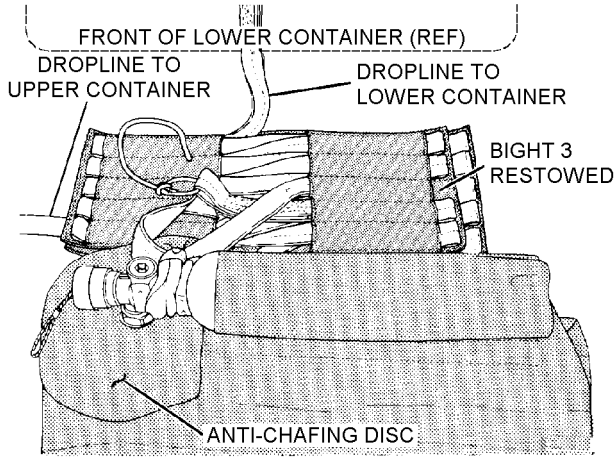
Step 15 - Para 8-25

16. Attach large loop of dropline around neck of inflation valve at cylinder with a lark's head knot. Pull knot tight and tack with two turns of waxed nylon 6-cord, single. Tie ends with a surgeon's knot followed by square knot.



Step 16 - Para 8-25 63-730

17. Ensure CO_2 cylinder anti-chafing disc is installed. Reinstall inflation valve on liferaft inlet valve and tighten coupling nut to a torque value of 80 to 90 in-lbs. Stow bight removed from channel 3 of boot B. Bight will not extend full length of channel.



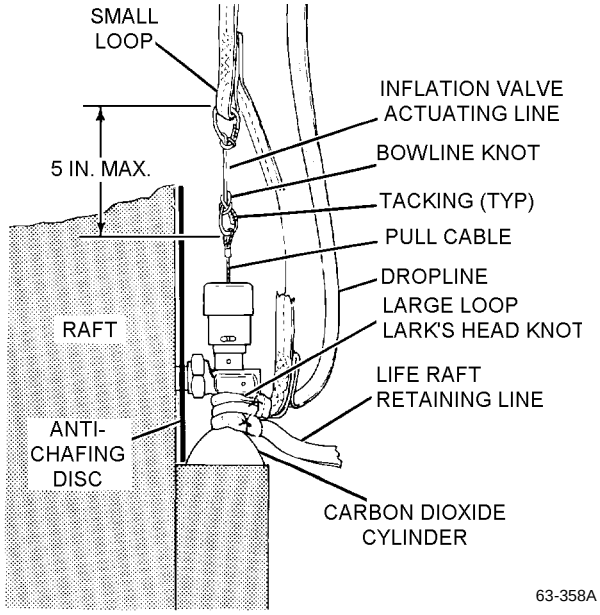
63-731

Step 17 - Para 8-25

WARNING

Final dimension of valve actuating line is critical. Finished length shall not exceed 5 inches.

18. Pass actuating line through loop in end of pull cable. Tie a loop using bowline knot. Tack with three turns of waxed nylon thread, size E, single. Tie ends with surgeon's knot followed by square knot. Finished length shall not exceed 5 inches.



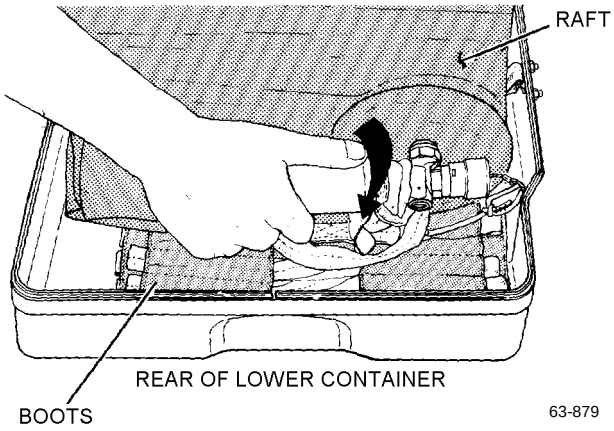
63-358A

Step 18 - Para 8-25

NOTE

Ensure CO_2 bottle is not resting on lower lid dimple. This will prevent bowing of upper lid and aid in kit closure.

19. Place boots in aft section of lower container and rotate CO_2 cylinder away from packer so that cylinder rests on top of boots.

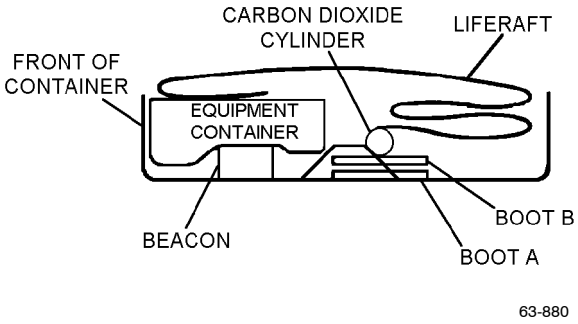


63-879

Step 19 - Para 8-25

20. Position excess dropline in such a manner as to avoid any possibility of entanglement.

21. Fold and stow liferaft as shown.



Step 21 - Para 8-25

22. Place liferaft cover over liferaft and equipment container and tuck cover around liferaft, using a fid to push edges of cover down. Ensure that latch locks are free from obstruction and that liferaft cover does not protrude beyond edges of container.

23. Ensure flexible antenna is routed around periphery of lower container.

24. Route excess dropline out rear center of lower container.

8-26. CLOSING CONTAINER. To close the container, proceed as follows:

1. Place upper container on top of lower container and engage hinges on front of container halves.

2. While closing container, check for obstructions. Lay excess dropline on top of liferaft cover.

3. When container is closed, push forward on striped release handle.

4. Examine oxygen gage for full indication. If recharging is necessary, refer to paragraph 8-40.

5. Perform release handle pull test in accordance with paragraph 8-27.

6. Make necessary entries on appropriate form in accordance with OPNAVINST 4790.2 Series.

8-27. Release Handle Pull Test. To perform a release handle pull test, proceed as follows:

Support Equipment Required

Quantity	Description	Reference Number
1	Push/Pull Gage, 0 to 50 Pounds	DPP-50 (CAGE 11710)

1. Measure force required to unlock release handle with push/pull gage. Force required shall be 10 to 30 pounds.

2. Close container after pull test.

8-28. COCKPIT ROUTING AND INSTALLATION OF EMERGENCY RADIO BEACON LANYARD. To rig emergency radio beacon for automatic actuation after beacon is installed in survival kit, proceed as follows:

Materials Required

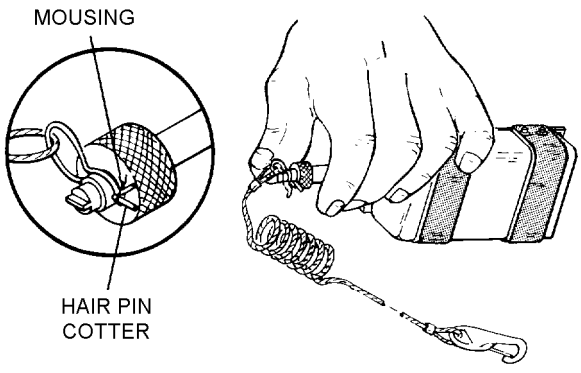
Quantity	Description	Reference Number
1	Lanyard, Actuation	CL204C4-8 (CAGE 80206)
As Required	Thread, Nylon, Type II, Class A, Size E	V-T-295 NIIN 00-244-0609

CAUTION

Do not release indicator plunger. Maintain pressure and keep plunger depressed until temporary hairpin cotter is replaced.

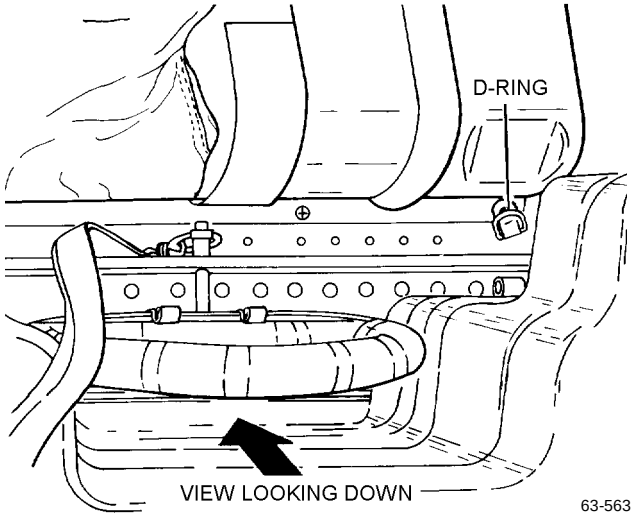
1. Depress indicator plunger on end of actuator indicator assembly and remove temporary hairpin cotter.

2. While maintaining pressure on plunger, secure plunger in depressed position using the hairpin cotter attached to end of beacon actuation lanyard. Insert the hairpin cotter through the aligned holes in the indicator plunger and collar from which the temporary hairpin cotter was removed. Safety-tie open end of hairpin cotter by applying single-loop mousing. Use size E nylon thread, and secure mousing loop with square knot. Cut off excess length approximately 1/8 inch from knot.



Step 2 - Para 8-28

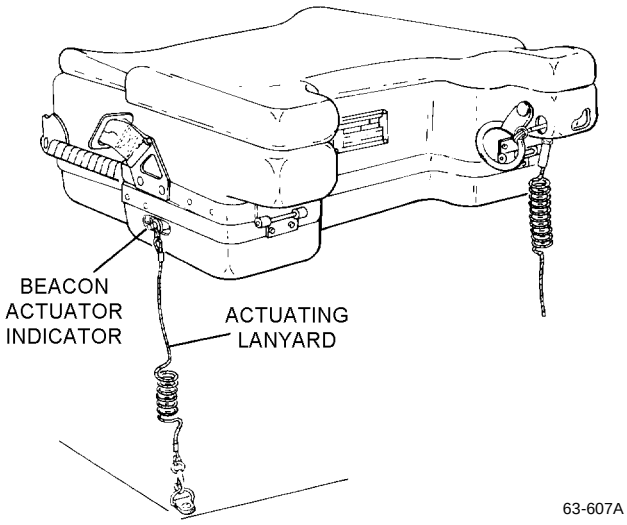
3. Remove existing screw on starboard side of cockpit deck and install D-ring and plate with screw (enlarge hole in D-ring plate to admit screw as necessary).



Step 3 - Para 8-28

4. Install the RSSK-3 in the aircraft with the actuating lanyard hanging over the forward edge of the seat bucket. The coiled part of the lanyard should be entirely outside seat bucket.

5. Attach the snaphook of the actuating lanyard to the D-ring.



Step 5 - Para 8-28

6. Verify proper installation of kit into seat, and correct routing and connection of automatic actuating lanyard assembly.

Section 8-4. Turnaround/Daily/Preflight/Postflight/ Transfer/Special/Conditional Inspection

8-29. GENERAL.

8-30. The Turnaround/Daily/Preflight/Postflight or Transfer Inspections consist of a visual type inspection performed in conjunction with the aircraft inspection requirements for the aircraft in which the survival kit is installed. These inspections shall be performed by line personnel (plane captain) or delegated aircrewmen who have been instructed and found qualified by the Aviator's Equipment Branch.

8-31. Conditional Inspection is an unscheduled inspection required as the result of a specific situation or set of conditions, e.g. hard-landing inspections or any inspection directed by higher authority that is not ordered in a technical directive.

8-32. The Special (7/14 day, etc.) Inspection shall be performed on inservice survival kit installed in aircraft and in ready room issue. This inspection shall be performed at the Organizational Level of maintenance by personnel assigned to the Aviator's Equipment Branch. Make necessary entries on appropriate form in accordance with OPNAVINST 4790.2 Series.

8-33. TURNAROUND/DAILY/PREFLIGHT/POSTFLIGHT/TRANSFER OR SPECIAL INSPECTIONS. These inspections consist of a visual inspection of the following:

1. Release handle for proper seating and corrosion.

2. (ACC 655 incorporated) Negative g retention brackets for excessive wear, corrosion, and security.

3. (ACC 655 incorporated) Cable assembly for security, corrosion, and fraying.

4. Cushion for secure attachment, rips, and tears.

5. Oxygen gage for FULL indication.

6. Manual oxygen release for secure attachment.

7. Container assembly for cracks, breaks, and other obvious damage.

8. Harness assemblies for loose or frayed webbing and stitching, and cracked or broken hardware.

9. Beacon actuator indicator for bent shaft, hairpin cotter for elongation, corrosion, and proper mousing.

10. Secure attachment of beacon automatic actuation lanyard (if installed).

11. Condition of oxygen hose and secure attachment to kit. If repair procedure has been performed on oxygen hose assembly, check external wiring for secure attachment.

8-34. If discrepancies are found or suspected, Maintenance Control shall be notified.

8-35. Survival kits which do not pass inspection and cannot be repaired in the aircraft shall be removed in accordance with applicable aircraft manual and replaced with a Ready For Issue (RFI) survival kit. Non RFI survival kits shall be forwarded to the nearest maintenance activity having repair capability for corrective action.

Section 8-5. Acceptance/Phased/SDLM/PDM Inspection

8-36. GENERAL.

8-37. An acceptance inspection shall be performed on a survival kit when it is placed into service or at the time a reporting custodian accepts a newly assigned airfcraft from any source and on return of an aircraft from SDLM/PDM or other major D-level rework. The Phased/SDLM/PDM inspection cycle of the survival kit shall be 448 days. In no case, however, shall the phased interval exceed 448 days. The battery test inspection cycle for the AN/URT-33A radio beacon is dependent on the type of battery installed. Refer to NAVAIR 16-30URT33-1 for battery test inspection cycles and requirements. For acceptance inspection purposes, verification of pyrotechnics and configuration is accomplished by visual record examination only. Disassembly beyond the daily inspection requirements of applicable publications is not required. Activities may elect to increase the depth of the inspection if equipment condition, visual external inspection, or record examination indicates such action is warranted.

8-38. VISUAL INSPECTION. This inspection shall be performed prior to the functional check of the kit. Visually check kit for the following:

1. Release handle for wear, corrosion, and damage.

1A. (ACC 655 incorporated) Negative g retention brackets for excessive wear, corrosion, and security.

1B. (ACC 655 incorporated) Cable assembly for security, corrosion, and fraying.

2. Cushion for rips, tears, and general condition.

3. Parachute attachment slide fastener for ease of operation and corrosion.

4. Upper and lower containers for cracks, corrosion, and security of hardware.

5. Webbing for loose or frayed stitching, security of attachment, and release fittings for satisfactory operation.

6. Manual oxygen release retention tab snap fastener for secure attachment and corrosion.

7. Swaged balls on cable assemblies for security of attachment.

8-39. FUNCTIONAL CHECK. The functional check shall be performed anytime a kit is placed in service, after any adjustment procedures, or when equipment condition, visual external inspection, or record examination indicates such action is warranted to determine the condition of the kit. To perform a functional check proceed as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Leak Detection Compound, Type I	MIL-L-25567

Support Equipment Required

Quantity	Description	Reference Number
1	Dial Push/Pull Gage, 0 to 50 Pounds	DPP-50 (CAGE 11710)
1	Test Stand	59A120 (CAGE 02551) or 31TB1995-1 (CAGE 99251)

WARNING

Before use, inspect leak detection compound. Compound which is not clear and free from suspended material/sediment is considered contaminated and shall be disposed of. Compound exhibiting peculiar odors, such as acetone or alcohol, is considered contaminated and shall be disposed of.

CAUTION

Discontinue functional test if seat kit fails to pass any steps of test procedures. Repair malfunction before continuing procedures or damage to seat kit may result. After repair, the entire test procedure shall be performed.

NOTE

Performance of test stand is dependent upon skill of operator. It is imperative that operator be thoroughly familiar with instruments, controls, and connections that comprise systems incorporated in test stand. See NAVAIR 17-15BC-20 and NAVAIR 13-1-6.4-4 to familiarize yourself with 59A120 or 31TB1995 series liquid oxygen converter test stands.

Emergency oxygen cylinder pressures used in this functional test are derived under ideal shop conditions of 70°F, 21°C. Variances in ambient air temperatures directly affect charging pressures. Refer to table 8-5 for details.

Ensure that emergency oxygen cylinder is filled to 1800 to 2000 psi with oxygen.

1. Remove check valve (22, figure 8-17) from kit.

2. Remove bell jar and connect test stand fitting (C-1) to line assembly (oxygen bottle to check valve). Ensure that valve (V-2) is open and all other test stand valves are closed (figure 8-10).

3. Attach push/pull gage to manual emergency oxygen release handle.

CAUTION

Ensure manual oxygen release is separating type before attempting to disengage.

4. Measure force required to disengage manual oxygen release. Force required shall be 10 to 30 pounds and emergency oxygen system shall actuate and indicate 45 to 80 psi on gage (PG-1) on test stand.

5. Reinstall manual oxygen release (if separating type) and reset reducer.

6. Turn on oxygen supply cylinder to test stand.

7. Slowly open valve (V-6) on test stand and adjust pressure on gage (PG-1) to 90 psi.

8. Measure force required to disengage manual oxygen release with push/pull gage. Force required shall be 10 to 30 pounds.

NOTE

Any degree of leakage in the oxygen system requires corrective maintenance.

9. Using leak detection compound, check all pressure lines and fittings on kit to ensure no leakage.

10. Reinstall manual oxygen release (if separating type) and reset reducer.

CAUTION

Do not increase pressure above 150 psi.

11. Using valve (V-6), increase pressure until relief valve unseats.

NOTE

Unseating can be determined by listening and observing gage (PG-1) on test stand.

12. Repeat step 11 several times to establish a correct pressure. Relief valve shall unseat at 120 to 140 psi when pressure is increased, and reset at 110 psi minimum when pressure is decreased. Once reset, relief valve shall be leak tight.

NOTE

Pressure may be reduced below opening pressure of relief valve by closing valve (V-6) and opening valve (V-5).

13. Check relief valve with leak detection compound to ensure no leakage.

14. Close valve (V-6) and bleed oxygen pressure from system by opening valve (V-5). All pressure is bled when gages (PG-1) and (PG-4) indicate zero pressure.

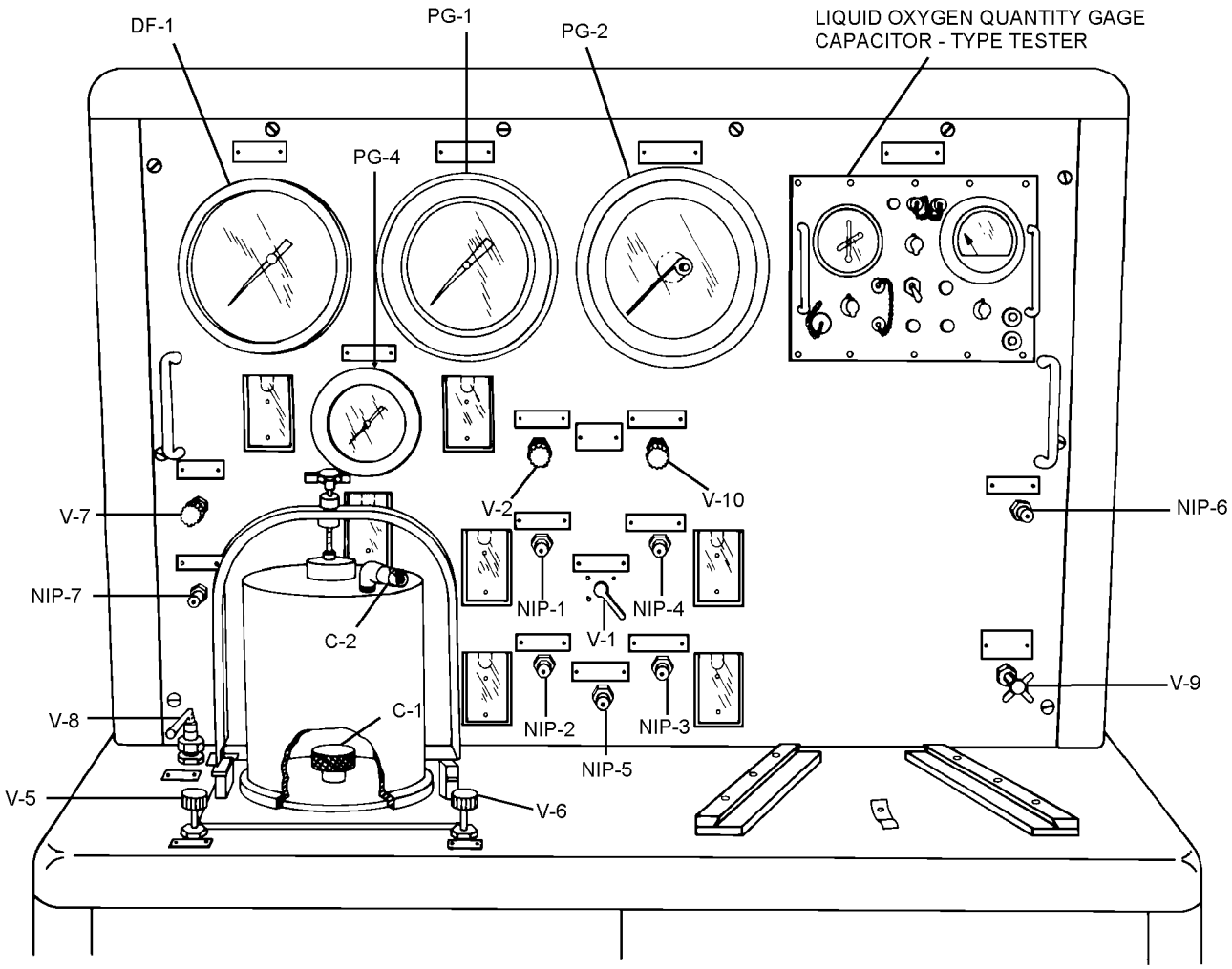
15. Close valve (V-5).

16. Ensure valve (V-2) is opened and all other test stand valves are closed.

17. Measure force required to disengage automatic oxygen release with a scale. Force required shall be 10 to 30 pounds and emergency oxygen system shall actuate and indicate 45 to 80 psi on gage (PG-1) on test stand.

18. Reset reducer.

19. Open valve (V-5), and ensure that all other test stand valves are closed.



C-1	BELL JAR BOTTOM COUPLING	PG-2	FLOWMETER INDICATOR GAGE
C-2	BELL JAR TOP COUPLING	PG-4	0 – 15 PSIG LOW PRESSURE TEST GAGE
DF-1	0 – 100" H_2O DIFFERENTIAL PRESSURE GAGE	V-1	FLOWMETER SELECTOR GAGE
NIP-1	0 – 0.25 LPM FLOWMETER CONNECTION	V-2	TEST PRESSURE GAGE TO BELL JAR VALVE
NIP-2	0 – 1 LPM FLOWMETER CONNECTION	V-5	SYSTEM BLEED VALVE
NIP-3	0 – 50 LPM FLOWMETER CONNECTION	V-6	OXYGEN SUPPLY VALVE
NIP-4	0 – 150 LPM FLOWMETER CONNECTION	V-7	DIFFERENTIAL PRESSURE BLEED VALVE
NIP-5	CONVERTER SUPPLY OUTLET CONNECTION	V-8	DIFFERENTIAL PRESSURE SHUT-OFF VALVE
NIP-6	SUPPLY TO CONVERTER CONNECTION	V-9	CONVERTER SUPPLY FLOW CONTROL VALVE
NIP-7	DIFFERENTIAL PRESSURE GAGE CONNECTION	V-10	TEST PRESSURE GAGE BUILD-UP AND FLOW VALVE
PG-1	0 – 160 PSIG TEST PRESSURE GAGE		

63-578

Figure 8-10. Test Stand Model 59A120

20. Actuate toggle on reducer to ensure positive flow through valve (V-5). Reset reducer assembly.

21. Open valve (V-8).

22. Slowly close valve (V-5), while observing gage (DF-1).

NOTE

Observe gage (DF-1) for two minutes to ensure no leakage. Any pressure rise indicates leakage in the reducer valve seat and requires corrective maintenance.

23. Close valve (V-8), open valve (V-5), and disconnect oxygen outlet hose from fitting (C-1).

24. Ensure all valves on test stand are secured. Reinstall check valve removed in step 1 and torque in accordance with Appendix B.

25. Connect oxygen outlet hose to fitting (NIP-6). Ensure that valve (V-10) is open and all other test stand valves are closed.

26. Connect test stand hose to fitting (NIP-5) and fitting (NIP-4).

27. Move valve (V-1) to the (NIP-4) position.

28. Ensure that 1800 to 2000 psi is in the oxygen cylinder of the kit.

29. Pull manual oxygen release. Slowly open valve (V-9) to indicate 90 LPM on gage (PG-2). Oxygen pressure shall indicate 45 to 80 psi on gage (PG-1).

NOTE

When needle of cylinder pressure gage is between the E and F of REFILL, pressure is approximately 250 psi.

30. Using leak detection compound, inspect check valve reinstalled in step 24 for leakage. No leakage allowed.

31. Observe emergency oxygen cylinder pressure gage and allow the system to decrease to 250 psi while maintaining 90 LPM and 45 to 80 psi pressure.

32. Close valve (V-9).

33. With zero flow indicated on gage (PG-2), pressure indicated on gage (PG-1) shall be 45 to 80 psi.

34. Reinstall manual oxygen release (if separating type) and reset reducer.

35. Bleed oxygen pressure from system by opening valves (V-5) and (V-2). All pressure is bled when gages (PG-1) and (PG-4) indicate zero pressure.

36. Disconnect kit from test stand.

37. Secure test stand.

38. All areas where leak detection compound was applied shall be wiped thoroughly clean. Dry with lint-free cloth, filtered low pressure compressed air or low pressure nitrogen.

39. Recharge emergency oxygen cylinder to 1800 to 2000 psi. Refer to paragraph 8-40 for charging procedures.

8-40. PURGING AND CHARGING EMERGENCY OXYGEN SYSTEM. To purge and charge the emergency oxygen system, proceed as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Leak Detection Compound, Type I	MIL-L-25567
As Required	Nitrogen, Type I, Class I, Grade B	BB-N-411

Support Equipment Required

Quantity	Description	Reference Number
1	Oxygen Purging Electric Heater	C5378 (CAGE 96787) or Equivalent
1	Shut-off Valve	—
1	Pressure Regulator	—

WARNING

Servicing of emergency oxygen system is accomplished only after removal of personnel parachute and survival kit from aircraft.

Before use, inspect leak detection compound. Compound which is not clear and free from suspended material/sediment is considered contaminated and shall be disposed of. Compound exhibiting peculiar odors, such as acetone or alcohol, is considered contaminated and shall be disposed of.

1. If survival kit assembly has not been removed from aircraft, remove personnel parachute and survival kit in accordance with applicable maintenance manual.

WARNING

If necessary to release pressure in oxygen bottle before purging/filling, pull emergency oxygen lanyard. This releases pressure through reducer/manifold. DO NOT release pressure through filler valve. Releasing high pressure oxygen through restriction of filler valve causes heat, and fire or explosion may result.

2. Remove oxygen filler valve cap.

NOTE

If emergency oxygen system is contaminated or cylinder has remained empty for more than 2 hours, purging is required. If emergency oxygen cylinder does not warrant purging process, proceed to step 9 for charging sequence.

3. Deplete emergency oxygen cylinder if necessary.

4. Connect nitrogen source to filler valve, and set reducer/manifold in accordance with paragraphs 8-58, 8-59, or 8-62.

NOTE

If relief valve on Oxygen Purging Electric Heater will not allow 100 psi, raise pressure only to allowable limit.

5. Slowly pressurize to 100 psi with nitrogen at temperature of 110° to 130°C (230° to 266°F) using electric heater.

6. Turn off nitrogen source and deplete oxygen cylinder.

7. Repeat steps 5 and 6 twice.

8. Turn off nitrogen source and disconnect.

9. Connect oxygen source to filler valve regulator and shut-off valve. Reset reducer/manifold.

10. Slowly pressurize to 100 psi.

11. Deplete cylinder to 50 psi.

WARNING

Observe filling stages as rapid application of oxygen pressure creates heat which may result in fire or explosion.

Allow no less than 3 minutes for each filling stage and 2-minute intervals for stages.

NOTE

If kit is to be stored, the emergency oxygen bottle shall be depleted or filled to 200 PSI (when needle on gage bisects E on refill). For shipping, fill or deplete to 25 PSI using the gage on the oxygen refill cylinder.

12. Charge emergency oxygen system in stages in accordance with table 8-4 until pressure gage indicates correct pressure for existing ambient temperature (table 8-5).

13. Loosen oxygen source connection until all pressure is bled from high pressure line. Remove oxygen source.

NOTE

Alternate Fill Valve P/N 9120097-27 is coreless and has a maximum leakage rate of 1 cc/hr. This will be evident by very tiny bubbles passing though the top of the valve when leak detection compound is applied level to the top rim. No leaks around the threads are acceptable. If large bubbles are evident, contact survival kit FST for disposition.

14. Apply leak detection compound around filler valve, gage and reducer. Check for leaks then wipe connection clean using a lint-free cloth.

15. Reinstall oxygen filler valve cap on filler valve.

16. If the personnel parachute and survival kit assembly were removed in step 1, reinstall using the applicable maintenance manual.

Table 8-4. Charging Stages

Stage	PSI
1	500
2	1000
3	1500
4	1800
5	2000

Table 8-5. Ambient Air Temperature Vs Charging Pressures

Ambient Air Temperature		Charging Pressure
°F	°C	PSI
0	-18	1550-1750
10	-12	1600-1775
20	-7	1625-1800
30	-1	1675-1850
40	5	1700-1875
50	10	1725-1925
60	16	1775-1975
70	21	1800-2000
80	27	1825-2050
90	32	1875-2075
100	38	1900-2125
110	43	1925-2150
120	49	1975-2200
130	54	2000-2225

Section 8-6. Maintenance

8-41. GENERAL.

WARNING

Keep working area clean and free of oil, grease and dirt. Do not attempt to perform any component removal with the oxygen system pressurized.

8-42. This section contains procedures for troubleshooting, disassembly, cleaning, inspection of disassembled parts, repair or replacement of parts, assembly and adjustment. Work shall be performed in a clean, dust- and grease-free area.

8-43. TROUBLESHOOTING.

8-44. Where troubles or operating malfunctions are encountered, locate probable cause and remedy using table 8-6.

8-45. DISASSEMBLY.

8-46. Disassemble the RSSK-3 using the index numbers assigned to figure 8-16 through 8-20. Disassemble the RSSK-3 only as far as necessary to correct any malfunctions or damage.

WARNING

Ensure that the emergency oxygen system is fully exhausted prior to any disassembly action.

NOTE

Discard all O-rings, packings, gaskets, seals, and antiseize tape removed from oxygen connections during disassembly. Discard all threaded inserts, rivets, rubber pads, seals, molding, or hook and pile fastener tape removed during disassembly of kit.

When disassembling the reducer/manifold of the emergency oxygen system, ensure that the cam is in the release position (reducer on). This will relieve the spring tension on the internal parts.

8-47. CLEANING.

8-48. To clean the disassembled oxygen and non-oxygen components of the kit (except for cushions and fabric components) refer to NAVAIR 13-1-6.4-1.

8-49. CLEANING CUSHIONS AND FABRIC COMPONENTS. Clean seat cushions and all fabric components as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Cleaning Compound	MIL-C-25769
As Required	Detergent, General Purpose	MIL-D-16791
As Required	Lint-free Cloth	MIL-C-85043 NIIN 00-044-9281

NOTE

If using cleaning compound (MIL-C-25769), combine one part compound to three parts water. If using general purpose detergent, follow directions on container.

1. Prepare detergent or cleaning compound (MIL-C-25769) solution.

2. Apply solution to soiled area with spray or sponge.

3. Allow solution to remain on surface for few minutes, then scrub with soft brush or cloth.

4. Rinse surface thoroughly with water; wipe with cloth or sponge.

NOTE

Repeat steps 1 through 4 until material is clean.

Table 8-6. Troubleshooting

Trouble	Probable Cause	Remedy
Survival Kit (Figure 8-16)		
Upper container fails to separate from lower container when release handle is pulled.	Faulty release handle (41).	Replace release handle.
Loss of aircraft communications.	Broken or misaligned pins and sockets in hose connectors; open or short circuit in oxygen hose wiring.	Perform electrical check in accordance with circuit in oxygen hose wiring chapter 4.
Emergency Oxygen System P/N 29604-A1/-A2A (Figures 8-17 and 8-18)		
Low or zero indication on pressure gage (25, figure 8-17).	Cylinder empty.	Charge cylinder.
	Leaking connections and/or components.	Tighten connections and replace defective parts.
	Defective gage.	Replace gage.
Cylinder unable to retain charge.	Leakage through inlet valve (36, figure 8-17).	Clean inlet valve and seat; replace if defective.
	Leakage at cylinder and pressure reducer housing.	Remove reducer from cylinder. Inspect threads for burring, stripping, or distortion. Replace as necessary.
	Leakage through recharge valve assembly.	Disassemble, clean, and inspect recharger valve. Replace if defective.
Emergency oxygen does not actuate when manual oxygen release or emergency is pulled.	Cable (4 or 5, figure 8-17) broken.	Replace cable.
	Release not engaged in fitting.	Install correctly or replace.
Difficulty in arming procedure.	Foreign material on bearing surfaces of release cam (3, figure 8-18).	Disassemble release mechanism and clean release cam in accordance with NAVAIR 13-1-6.4-1.
Emergency oxygen relief valve does not operate within the 120 to 140 psi range.	Relief valve incorrectly set.	Adjust to meet required specification in accordance with paragraph 8-63.
	Defective relief valve.	Replace relief valve.
Emergency oxygen pressure not within 45 to 80 psi.	Reducer/manifold outlet pressure incorrectly set.	Adjust reducer/manifold in accordance with paragraph 8-61.
	Defective reducer/manifold.	Replace reducer/manifold.

Table 8-6. Troubleshooting (Cont)

Trouble	Probable Cause	Remedy
Emergency Oxygen System P/N 29604-A1/-A2A (Figures 8-17 and 8-18) (Cont)		
Excessive outlet pressure with relief valve exhausting.	Reducer/manifold incorrectly set.	Adjust reducer/manifold in accordance with paragraph 8-61.
	Faulty inlet valve (36, figure 8-17).	Disassemble, clean, and inspect inlet valve. Repair or replace as necessary.
Excessive outlet pressure with relief valve not exhausting.	Reducer/manifold incorrectly set and faulty relief valve.	Adjust reducer/manifold in accordance with paragraph 8-61. Adjust relief valve in accordance with paragraph 8-63.
Insufficient outlet pressure with relief valve exhausting.	Relief valve out of adjustment or defective.	Adjust relief valve in accordance with paragraph 8-63 or replace if defective.
Insufficient outlet pressure with relief valve not exhausting.	Cylinder empty.	Charge cylinder.
	Leakage through recharge valve assembly.	Disassemble, clean, and inspect recharge valve assembly. Repair or replace as necessary.
	System leakage (ruptured housing, leaks at connections or preformed packing, etc.)	Leak-test system; repair or replace as necessary.
	Reducer/manifold incorrectly set.	Adjust reducer/manifold in accordance with paragraph 8-62.
Emergency Oxygen System P/N F1513000-1/-5/-7/-9 (Figures 8-19 and 8-20)		
Low or zero indication on pressure gage (11, figure 8-19).	Cylinder empty.	Charge cylinder.
	Leaking connections and/or components.	Tighten connections and replace defective parts.
	Defective gage.	Replace gage.
Leaking connections and/or components.	Improperly tightened connections or damaged components.	Tighten connections and replace defective parts.
Charging valve assembly will not hold pressure.	Worn or damaged valve core (17, figure 8-19).	Replace valve core.
Excessive force required to operate actuator assembly.	Cables frayed or tubing bent (1, figure 8-20).	Replace actuator assembly.
Emergency oxygen relief valve does not operate within the 120 to 140 psi range.	Relief valve incorrectly set.	Adjust to meet required specification in accordance with paragraph 8-63.

Table 8-6. Troubleshooting (Cont)

Trouble	Probable Cause	Remedy
Emergency Oxygen System P/N F1513000-1/-5/-7/-9 (Figures 8-19 and 8-20) (Cont)		
Emergency oxygen relief valve does not operate within the 120 to 140 psi range. (Cont)	Defective relief valve assembly.	Replace relief valve assembly.
Relief valve bleeds after reseating.	Seat assembly (6, Figure 8-19) worn or damaged.	Replace seat assembly.
	Insert (8, Figure 8-19), packing (9), and/or retaining ring (7) worn or damaged.	Replace insert, packing, and retaining ring.
Relief valve setting decreases with repeated operations.	Spring (5, Figure 8-19) flattened.	Replace spring.
Emergency oxygen pressure not within 45 to 80 psi.	Reducer/manifold out pressure incorrectly set.	Adjust reducer/manifold in accordance with paragraph 8-62.
Emergency oxygen outlet pressure creeps up.	Worn or damaged diaphragm (18, Figure 8-20).	Replace diaphragm.
	Dirty or pitted valve seat (21, Figure 8-20).	Replace valve seat.
	Damaged valve stem (23, Figure 8-20).	Replace valve stem.
	Scored, worn, or pitted packing (22, Figure 8-20).	Replace packing.
	Washer (17, Figure 8-20) not thick enough.	Replace with a thicker, different dash number washer or add washer.
No emergency oxygen when reducer/manifold actuated (cylinder charged).	Broken adjusting spring (12, Figure 8-20).	Replace adjusting spring.
	Worn or damaged diaphragm (18, Figure 8-20).	Replace diaphragm.
	Valve stem (23, Figure 8-20) too short.	Replace valve stem.
	Washer (17, Figure 8-20) too thick.	Replace with a thinner, different dash number washer.
Erratic emergency oxygen outlet pressure.	Scored spring stem (17, Figure 8-20).	Replace spring stem.

Table 8-6. Troubleshooting

Trouble	Probable Cause	Remedy
Emergency Oxygen System P/N F1513000-1/-5/-7/-9 (Figures 8-19 and 8-20) (Cont)		
Erratic emergency oxygen outlet pressure. (Cont)	Damaged valve stem (23, Figure 8-20).	Replace valve stem.
	Valve guide (19, Figure 8-20) nicked or worn internally.	Replace valve guide.
Emergency oxygen outlet pressure changes with each operation.	Setscrew (10, Figure 8-20) not tight.	Tighten setscrew.

5. Repeat step 4 until material is free from all solution.

6. Allow material to dry thoroughly.

8-50. INSPECTION OF DISASSEMBLED PARTS.

8-51. Inspect the disassembled parts for damage, distortion, corrosion and other damage in accordance with table 8-7. Inspect survival items in accordance with NAVAIR 13-1-6.5.

8-52. REPAIR AND REPLACEMENT.

8-53. REPAIR. Repair of individual components within any assembly is authorized only in accordance with procedures outlined in this manual. Make necessary entries on appropriate form in accordance with OPNAVINST 4790.2 Series.

8-54. Repair of Cushion Assembly. Repair of the cushion assembly depends on type of cushion attached to the container. Cloth covered cushions are limited to sewing of loose or open seams, broken stitches and repair of small rips and tears. Repairs of foam cushions are limited to the container assembly, using adhesive spray, 3M Super 74 Foam Fast (NSN 8040-00-181-7761).

8-55. REPLACEMENT. All individual components that fail to pass inspection shall be replaced except where repair procedure is indicated. Refer to source code listing (SM&R Code), in Numerical Index of Illustrated Parts Breakdown to aid in determining replaceable components. All adjustable components or assemblies that failed to pass respective tests shall be readjusted to meet required specifications.

8-56. ASSEMBLY.

NOTE

The tamper dot on the Oxygen Hose Assembly shall be applied to the fitting in a manner which provides easy identification for inspection purposes when the seat kit is installed in the seat.

8-57. Assemble the kit in accordance with instructions in the following paragraphs using index numbers of figures 8-16 through 8-20 as references. Refer to Appendix B and ensure all nuts and fittings are properly torqued. The torque value for inlet tubing connector on oxygen hose assembly shall be 80 to 100 in-lb. Torque value for outlet tubing connector on oxygen hose assembly shall be 100 to 125 in-lb. After all nuts and fittings are properly torqued, apply tamper dots to all oxygen fittings shown in figures 8-16 through 8-20. Use lacquer, MIL-L-7178, Fed. Std. 595. Use any contrasting color when applying tamper dots to oxygen fittings.

Table 8-7. Inspection

Component	Task
Survival Kit (Figure 8-16)	
Cushion assembly	Check cushion for cracks and breaks.
	Check for secure attachment to upper container.
LH and RH strap assemblies	Check webbing for wear and damage and for frayed, loose, or broken stitching.
Equipment container	Check for loose or frayed stitching and ease of operation and corrosion of slide fastener.
Decals	Check for legibility and security of attachment.
Survival items	Inspect in accordance with NAVAIR 13-1-6.5.
Upper Container (Figure 8-16)	
Oxygen bottle clamps (12, 13)	Check inside portion of oxygen clamps for secure attachment of rubber cushion material.
Pins (10)	Check for wear and distortion.
Slide fastener (9)	Check for security of attachment and ease of operation and corrosion.
Dropline	Check for worn, frayed, or damaged webbing.
Container	Check for cracks and damage. Check bonded and riveted parts for security of attachment.
Negative g Retention Brackets (ACC 655 incorporated)	Check for excessive wear and security of attachment.
Cable Assemblies (ACC 655 incorporated)	Check for security of attachment, fraying, and corrosion.
Lower Container (Figure 8-16)	
Shield	Check for bending and security of attachment.
Hinge	Check for secure attachment to lower container.
Container	Check for cracks and damage. Check bonded and riveted parts for security of attachment.
Handle (Figure 8-16)	
Cam (38)	Inspect for wear and damage.
Pin (45)	Check for wear and damage.
Roller (46)	Check for damage and wear.
Spring (44)	Check for distortion and wear.

Table 8-7. Inspection (Cont)

Component	Task
Reducer/Manifold (Figure 8-16)	
Check Valve (22)	Check for damaged threads.
Housing	Check for breaks, gouges and other obvious damage. Check parts and threaded areas for damage.
Emergency Oxygen System P/N 29604-A1/-A2A (Figures 8-17 and 8-18)	
Oxygen cylinder (33, figure 8-17)	Inspect for general cleanliness and residual cleaning compound.
	Inspect end fitting and threads for damage.
	Inspect cylinder for bulges, cracks, dents, nicks, gouges, and scratches which penetrate metal; carefully inspect area adjacent to welds.
Pressure reducer housing (39, figure 8-17)	Inspect for damaged threads and fractures in housing.
Roller (17, figure 8-17)	Inspect for wear.
Release cam (3, figure 8-18)	Inspect for wear.
Adjusting nut (10, figure 8-17) and jamnut (11)	Inspect for looseness; if loose, adjust in accordance with paragraph 8-61.
Emergency Oxygen System P/N F1513000-1/-5/-7/-9 (Figures 8-19 and 8-20)	
Emergency oxygen system	Inspect for general cleanliness and residual cleaning compound.
Oxygen cylinder (22, figures 8-19)	Inspect end fitting and threads for damage.
	Inspect cylinder for bulges, cracks, dents, nicks, gouges, and scratches which penetrate metal; carefully inspect area adjacent to welds.
Spring stem (17, figure 8-20)	Inspect for bends, nicks, uneven wear, or improper finish.
Pressure reducer body (29, figure 8-20)	Inspect for damaged threads and fractures in housing.
Screws (13, 20, figure 8-19)	Inspect for damaged threads.
Guide (19, figure 8-20)	Inspect for uneven wear.
Adjusting nut (9, figure 8-20)	Inspect for any damage.
Pressure reducing spring housing (13, figure 8-20)	Inspect for damaged threads and cleanliness.
Reducer actuator assembly (1, figure 8-20)	Inspect for cracks in tubing, frayed cables, breaks in silver brazing, or any other obvious damage.
Off-on lever (6, figure 8-20)	Inspect for uneven wear.

WARNING

The emergency oxygen system must be kept absolutely free of oil, grease, or any substance not approved for use in the presence of high-pressure oxygen. No lubrication is permitted.

NOTE

Many repair parts for emergency oxygen systems are provided in the form of repair or overhaul kits. See applicable assembly in Illustrated Parts Breakdown. Ensure that new parts are used when assembling oxygen systems wherever applicable.

8-58. PIONEER CENTRAL REDUCER/MANIFOLD RESETTING (figure 8-11). To reset, proceed as follows:

1. Mate dove-tail fittings and insert into sleeve.

2. Turn slot on head counterclockwise until cable ball is seated firmly against stop screw.

8-59. FIREWEL REDUCER/MANIFOLD RESETTING (figure 8-12). To reset, proceed as follows:

1. Pull manual oxygen release to hold pin out of way so clevis fitting can be actuated.

2. While holding manual oxygen release, use screw driver to force clevis fitting aft.

3. Release manual oxygen release and use screw driver to ensure that release pin is completely inserted.

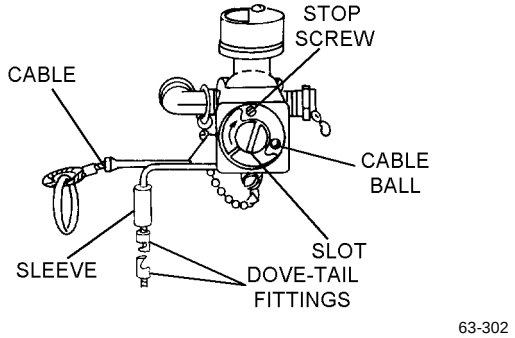


Figure 8-11. Resetting (Pioneer Central)

4. Turn locknut clockwise until it is free of threads and slip up on cable housing. Turn sleeve clockwise to run it far enough up so that ball end of cable can be installed.

5. Insert ball end of cable and turn sleeve counterclockwise until it is snug against collar. Tighten locknut.

8-60. ADJUSTMENT.

8-61. ADJUSTMENT OF INSTRUMENT AND LIFE SUPPORT DIVISION REDUCER/MANIFOLD P/N 29604-A1/-A2A. To adjust the emergency oxygen outlet pressure, proceed as follows:

NOTE

Reference numbers in parentheses refer to figure 8-17.

1. Loosen jamnut (11).

2. Turn adjusting nut (10) to extend or retract piston (8) on cocking shaft (16). Extending the piston increases outlet pressure; retracting the piston decreases outlet pressure.

3. Tighten jamnut (11) firmly against adjusting nut (10).

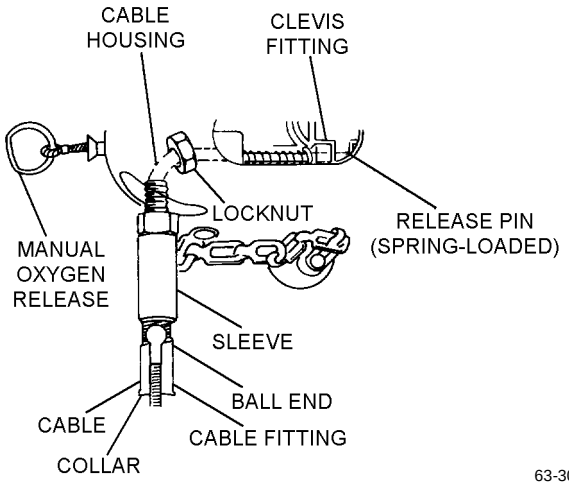


Figure 8-12. Resetting (Firewel)

8-62. ADJUSTMENT OF FIREWEL REDUCER/ MANIFOLD P/N F1513000-1/-5/-7/-9. To adjust the emergency oxygen outlet pressure, proceed as follows:

NOTE

Reference numbers in parentheses refer to figure 8-20.

1. Check operation of lever (6) by switching it from OFF to ON position several times.

NOTE

Washer (7) is available in three thicknesses; select and install a washer that will allow full oxygen flow with lever (6) in the ON position and no flow in the OFF position. Flow restriction or binding in lever operation indicates washer (7) is too thick.

2. Loosen screw (2) and remove actuator assembly (1).

3. Loosen screw (5) and slide out pin (4) removing off-on lever (6).

4. Remove washer (7) and spacer (8).

5. Using a wrench, turn adjusting nut (9) to set emergency oxygen outlet pressure. Turn adjusting nut (9) clockwise to increase emergency oxygen outlet pressure and counterclockwise to decrease outlet pressure.

6. Reassemble actuator assembly.

8-63. ADJUSTMENT OF OXYGEN RELIEF VALVE PRESSURE. To adjust the RSSK-3 oxygen relief valve proceed as follows.

1. Perform functional check in accordance with paragraph 8-39, steps 11, 12, and 13.

2. If relief valve does not unseat between 120 to 140 psi, reduce pressure to zero and remove relief valve.

NOTE

Turn in incremental adjustments of 1/2 plus or minus 1/4.

3. Adjust valve unseating pressure by turning the adjusting screw clockwise to increase relief valve pressure and counterclockwise to decrease (figure 8-13).

4. Install relief valve and recheck pressures.

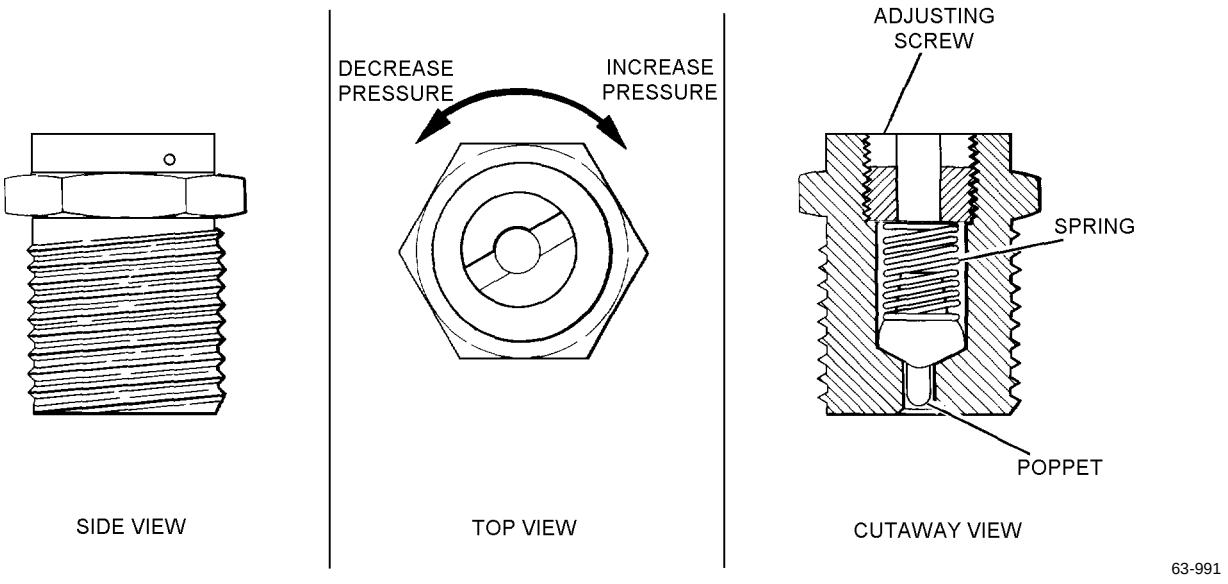


Figure 8-13. Relief Valve

Section 8-7. Fabrication

8-64. GENERAL.

8-65. This section contains instructions for fabrication of components that can be manufactured by local maintenance activities.

8-66. DROPLINE. To fabricate a dropline, proceed as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Webbing, Yellow Tubular, 3/4-Inch Wide	MIL-W-5625 NIIN 00-753-6531
As Required	Thread, Nylon, Type I, Class A, Size FF, Color: White	V-T-295 NIIN 00-267-3024

1. Lay out webbing and position identification yarn on top before proceeding.

2. Construct a dropline in accordance with figure 8-14.

3. Sear exposed ends of webbing.

4. All stitching shall be Type 301, ASTM-D-6193, 8 to 10 stitches per inch, and backstitch 1/2-inch minimum.

8-67. BOOT. To fabricate a boot, proceed as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Nylon	MIL-C-8135 or MIL-C-81395
As Required	Thread, Nylon, Type I, Class A, Size FF, Color: White	V-T-295 NIIN 00-267-3024

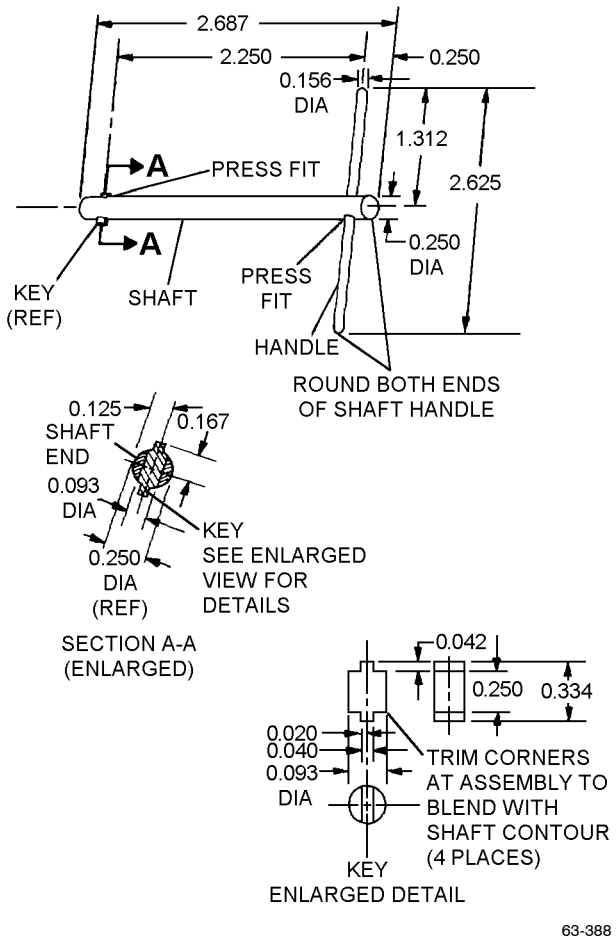
1. Construct a boot in accordance with figure 8-15.

2. Sear exposed ends of webbing and avoid sharp edges.

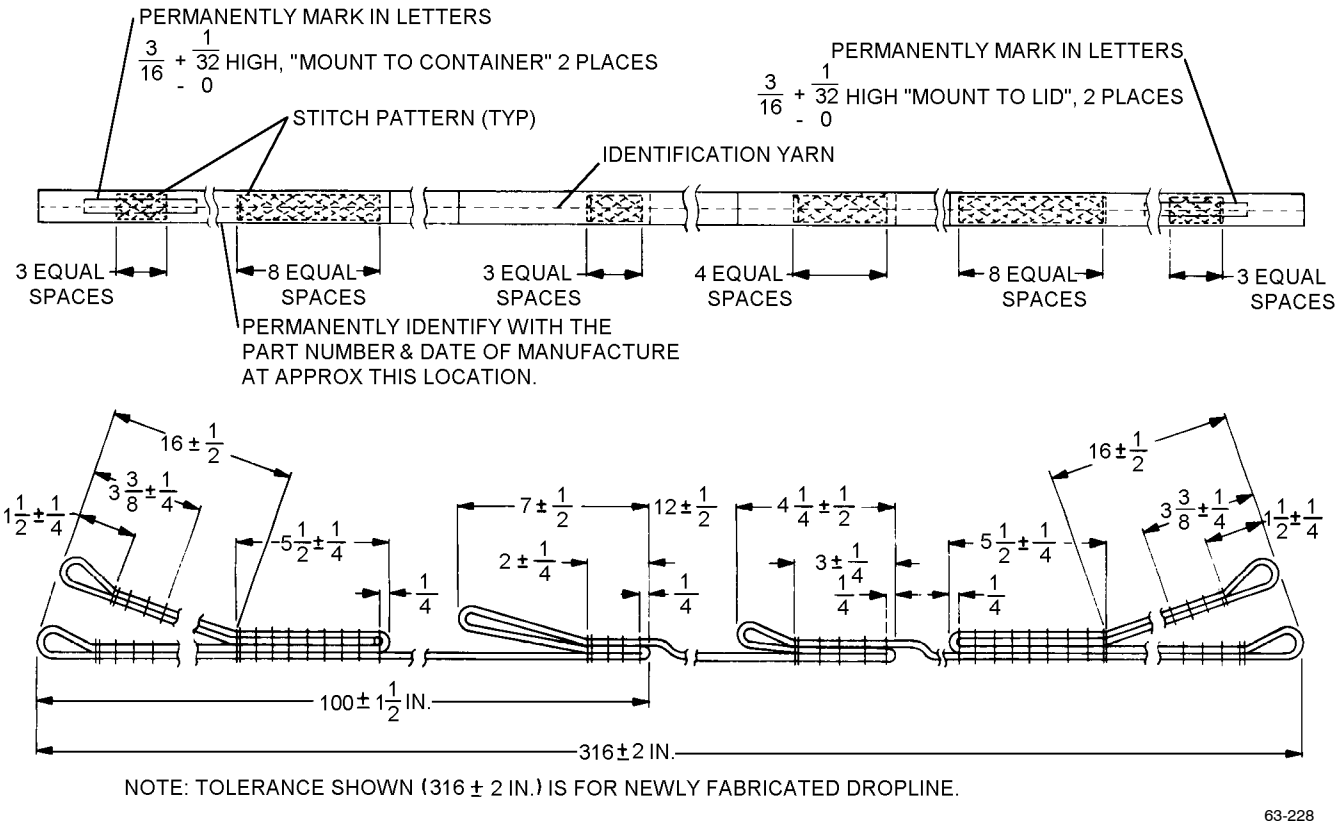
3. All stitching shall be Type 301, ASTM-D-6193, 8 to 10 stitches per inch, and backstitch 1/2 inch minimum.

8-68. T-WRENCH. To fabricate a T-wrench, proceed as follows:

1. Fabricate wrench from steel as shown.



Step 1 - Para 68



NOTE: TOLERANCE SHOWN (316 ± 2 IN.) IS FOR NEWLY FABRICATED DROPLINE.

63-228

Figure 8-14. Dropline

8-69. BRAKE RIDER'S STRAP. To fabricate a brake rider's strap, proceed as follows:

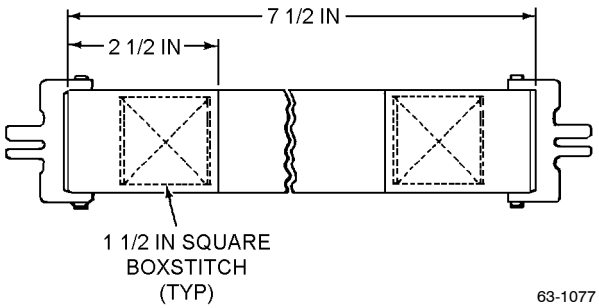
Materials Required

Quantity	Description	Reference Number
2	Release Assembly Lapbelt Fitting	015-11366-1 (CAGE 99449)
24 Inches	Webbing, Nylon, Type XXVII, 1 23/32 Inches Wide	MIL-W-4088 NIIN 00-530-1489
As Required	Thread, Nylon, Type II, Class A, Size 6	V-T-295 NIIN 00-559-5211

1. Cut a piece of nylon webbing 24 inches in length.

2. Sear exposed ends of webbing.

3. Secure fittings with 1 1/2-inch square box stitch. All stitching shall be ASTM-D-6193, Type 301, 4 to 6 stitches per inch, and backstitch 1/2-inch minimum.



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Step 3 - Para 8-69

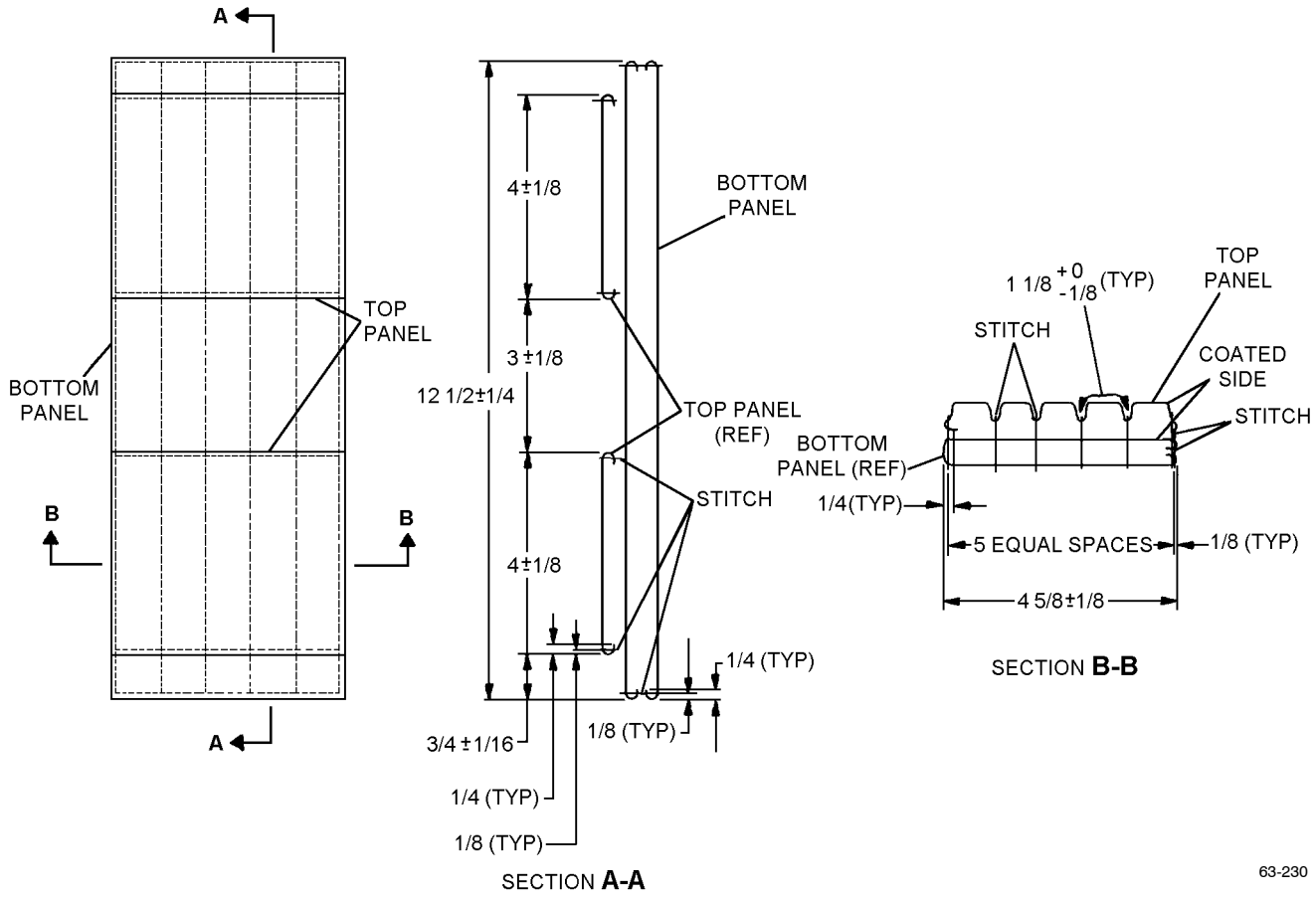


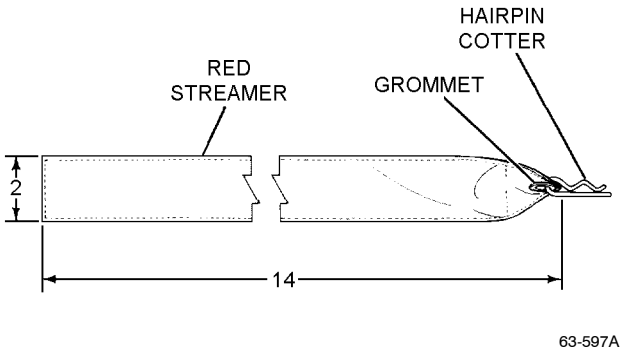
Figure 8-15. Boot

8-70. TEMPORARY HAIRPIN COTTER (AN/URT-33 RADIO BEACON). Fabricate radio beacon temporary hairpin cotter as follows:

Materials Required

Quantity	Description	Reference Number
1	Pin, Cotter, Hairpin	LHCOTC (CAGE 96652)
1	Grommet, Size 00	MS20230-B20
As Required	Cotton Cloth, Red Duck	MIL-C-10799 or Equivalent
As Required	Thread, Nylon, Type II, Class A, Size E	V-T-295 NIIN 00-244-0609

1. Using red cotton duck cloth fabricate temporary hairpin cotter as shown.



Step 1 - Para 8-70

Section 8-8. Illustrated Parts Breakdown

8-71. GENERAL.

8-72. This section lists and illustrates the assemblies and detail parts of the RSSK-3 Rigid Seat Survival Kit Assembly as manufactured by North American Rockwell Corporation.

8-73. The Illustrated Parts Breakdown should be used during maintenance when requisitioning and identifying parts.

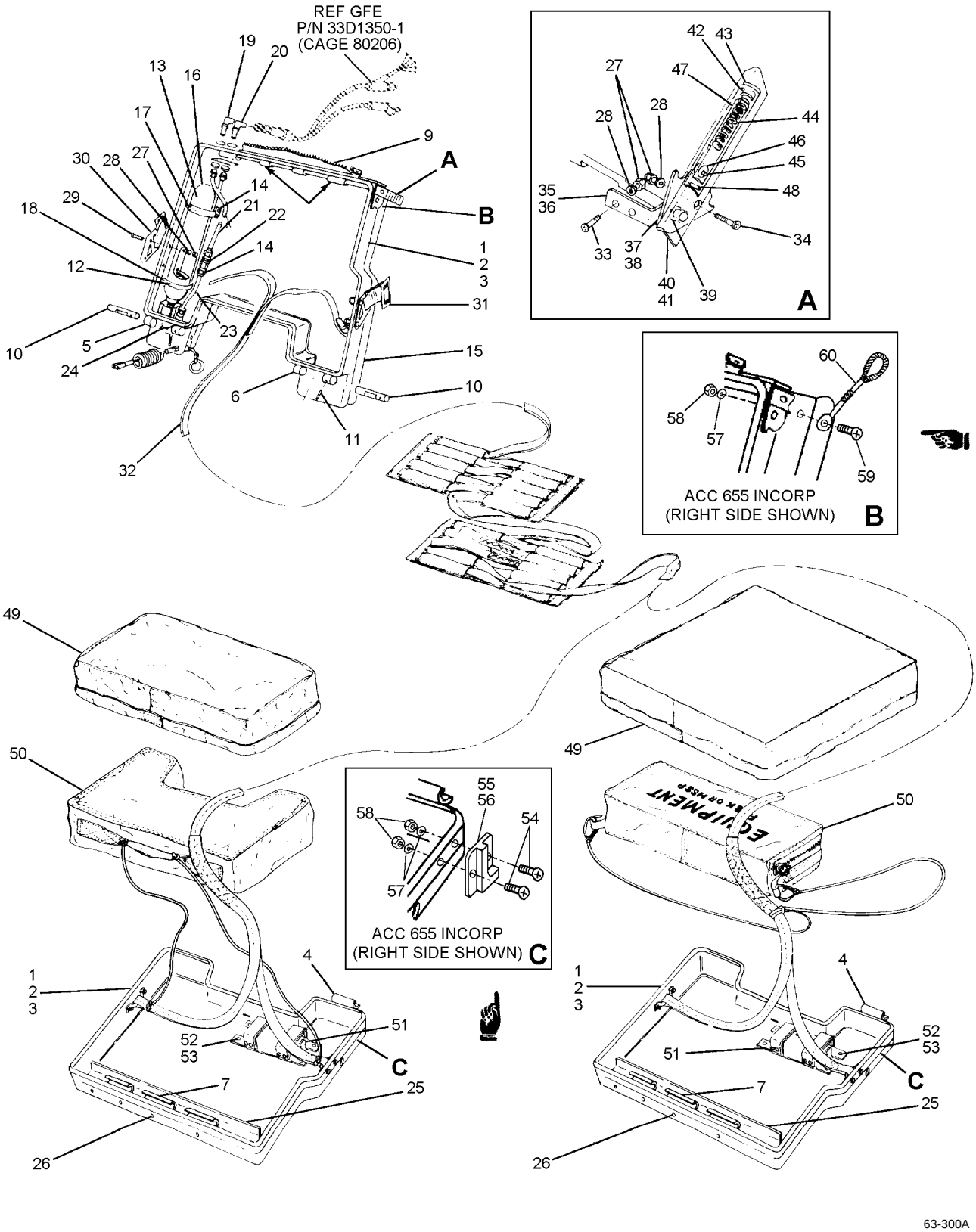


Figure 8-16. Rigid Seat Survival Kit-3

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
8-16		SURVIVAL KIT ASSEMBLY, RSSK-3	REF	
-1	249-53050-41	. CONTAINER ASSEMBLY	1	
-2	249-530102-31	. . CONTAINER	1	
-3	249-530102-41	. . . CONTAINER SUBASSEMBLY	1	
-4	249-530167-7	. . . . HINGE	2	
-5	249-530167-5	. . . . HINGE	1	
-6	249-530167-3	. . . . HINGE	1	
-7	249-530103-7	. . . . HINGE	1	
-8	249-530103-5	. . . . HINGE	1	
-9	249-530105	. . . . PANEL, Slide fastener assembly of	1	
-10	249-530198	. . . PIN	1	
-11	NAS561P3-7	. . . PIN (80205)	2	
-12	249-530107-31	. . . CLAMP, Oxygen supply	1	
-13	249-530107-41	. . . CLAMP, Oxygen supply	1	
-14	247-530106	. . . BOLT	4	
	NAS679A3	. . . NUT (80205)	4	
	2W18-10M	. . . WASHER, Flat (43999)	4	
-15	249-530102-25	. . . SEAT PAD	1	
-16	29604-A1	. . OXYGEN SYSTEM, Emergency (99251) (See figure 8-17 for BKDN) (Note 5)	1	
	29604-A2A	. . OXYGEN SYSTEM, Emergency (99251) (See figure 8-17 for BKDN) (Note 5)	1	
	F1513000-1	. . OXYGEN SYSTEM, Emergency (03990) (See figure 8-19 for BKDN) (Note 5)	1	
	F1513000-5	. . OXYGEN SYSTEM, Emergency (03990) (See figure 8-19 for BKDN) (Note 5)	1	
	F1513000-7	. . OXYGEN SYSTEM, Emergency (03990) (See figure 8-19 for BKDN) (Note 5)	1	
	F1513000-9	. . OXYGEN SYSTEM, Emergency (03990) (See figure 8-19 for BKDN) (Note 5)	1	
-17	NAS2221-10	. . . SCREW (80205)	2	
	2W18-10M	. . . WASHER, Flat (43999)	2	
-18	NAS221-16	. . . SCREW (80206)	2	
	2W18-10M	. . . WASHER, Flat (43999)	2	
-19	AN833-5D	. . . ELBOW (88044)	1	
	2W18-816M	. . . WASHER, Flat (43999)	1	
	AN924-5D	. . . NUT (88044)	1	
-20	AN833-4D	. . . ELBOW (88044)	1	
	2W18-716M	. . . WASHER, Flat (43999)	1	
	AN924-4D	. . . NUT (88044)	1	
-21	249-73357	. . . MANIFOLD, Oxygen	1	
-22	AN6030-1	. . . CHECK VALVE, Oxygen (88044)	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
8-16-23	249-73305-79	. . . LINE ASSEMBLY, Emergency oxygen pressure from bottle to check valve	1	
-24	AN515-4R6	. . . SCREW (88044)	1	
	H10-04	. . . NUT (75237)	1	
	2W18-4	. . . WASHER, Flat (43999)	1	
-25	249-530190-7	. . SHIELD	1	
-26	NAS220-7	. . SCREW (80205)	5	
-27	26CL-02	. . NUT, Cap (80539)	7	
-28	2W18-10M	. . WASHER, Flat (43999)	7	
-29	NAS1203-8W	. . BOLT (80205)	4	
-30	249-530123-11	. . RISER, L.H.	1	
-31	249-530123-21	. . RISER, R.H.	1	
-32	36H1323-31	. . DROPLINE ASSEMBLY (80206)	1	
	249-530125	. . DROPLINE ASSEMBLY (89372)	1	
-33	NAS1203-6W	. . BOLT (80205)	2	
-34	NAS1203-9W	. . BOLT (80205)	1	
-35	249-530119	. . CAM, Release assembly	1	
-36	249-530121	. . . SUPPORT, Release cam	1	
-37	249-530119-11	. . . CAM SUBASSEMBLY, Release cam	1	
-38	249-530120-3	. . . . CAM, Release	1	
-39	249-530122	. . . . BUSHING, Release cam	1	
-40	249-530112	. . HANDLE ASSEMBLY, Release	1	
-41	249-530113	. . . HANDLE	1	
-42	NAS561P2-7	. . . PIN (80205)	1	
-43	249-530118	. . . RETAINER, Release handle spring	1	
-44	249-530117	. . . SPRING, Compression	1	
-45	249-530116	. . . PIN, Release handle	1	
-46	249-530115	. . . ROLLER, Release handle	1	
-47	249-530114	. . . PLUNGER, Release handle	1	
-48	52-012-062-0125	. . . ROLLPIN (72962)	1	
-49	249-530189	. . COVER, Raft (Note 1)	1	
	36D1321	. . COVER, Raft (Note 2)	1	
-50	249-530110	. . CONTAINER ASSEMBLY, Equipment (Note 3)	1	
	68A77D4-1	. . CONTAINER ASSEMBLY, Equipment	1	
-51	CL204D2-1	. . BRACKET ASSEMBLY, Radio (KF) beacon (Note 4)	1	
-52	MS20470A4-7	. . RIVET (KF)	4	
-53	AN960PD-4	. . WASHER (KF)	4	
-54	MS24694-S54	. . SCREW, Machine (96906)	4	
-55	3647AS101-7	. . BRACKET, L.H. (Note 6)	1	
-56	3647AS101-8	. . BRACKET, R.H. (Note 6)	1	
-57	AN960C10	. . WASHER, Flat (88044)	6	
-58	22K1-02	. . NUT, Self-locking (72962)	6	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
-59	MS27039-1-08	. . SCREW, MACHINE (96906)	2	
-60	3647AS102-1	. . CABLE ASSEMBLY (Note 6)	2	
	V66-1ACC-161	. . PARTS KIT (F)	1	
	Notes: 1. Only used with equipment container 249-530110. 2. Only used with equipment container assembly 68A77D4-1. 3. Use until spare stock is exhausted; then replace with P/N 68A77D4-1. 4. After incorporation of ACC 161, Part 7, Amend 1. 5. Any of six emergency oxygen systems can be installed on the RSSK-3. 6. May be requisitioned as a kit from Naval Air Systems Command Central Kitting Activity, 235 Industrial Loop, Suite 182, Orange Park, FL 32073 until supplies are exhausted.			

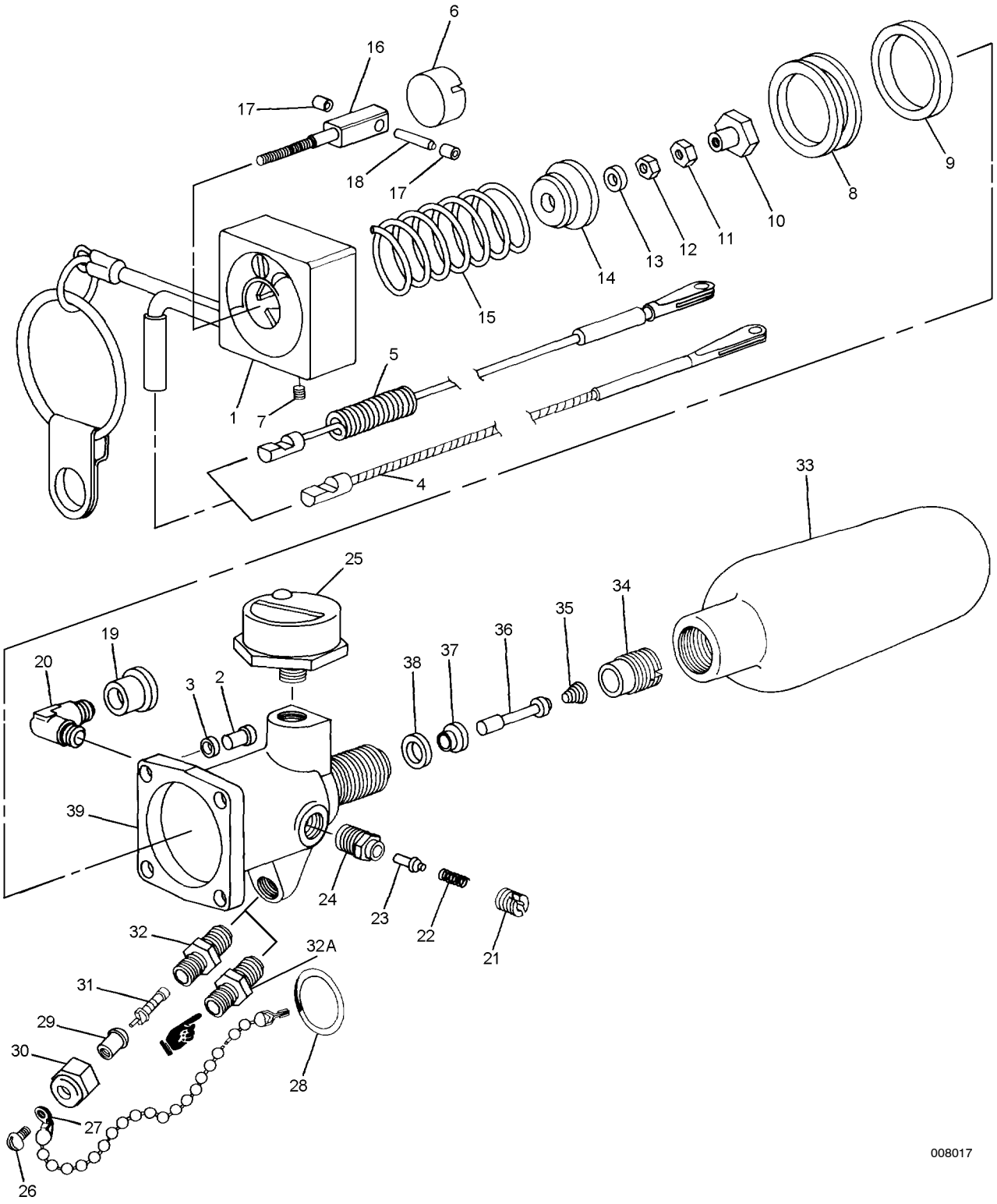


Figure 8-17. Emergency Oxygen System, Part No. 29604-A1 and 29604-A2A

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
8-17	29604-A1	OXYGEN SYSTEM ASSEMBLY	REF	A
	29604-A2A	OXYGEN SYSTEM ASSEMBLY	REF	B
-1	1607326-1	. CAM AND CABLE ASSEMBLY (See figure 8-18 for BKDN)	1	
-2	ASHO-404-1/2SCP	. SCREW, Allen, SCH, CRES 4-48 X 9/32, ATT PT (KF)	4	
-3	LWO-4SCP	. LOCKWASHER, CRES 4 SCR, ATT PT (KF)	4	
-4	1607320-1	. CABLE ASSEMBLY, Fixed	1	A
-5	1617889-1	. CABLE ASSEMBLY, Fixed	1	B
-6	1608024-1	. INSERT, Cam	1	
-7	1608235-1	. . . SETSCREW, Allen, ATT PT (KF)	1	
-8	1607285-1	. PISTON, Valve, pressure reducing (KF)	1	
-9	816919-5	. PACKING, Preformed (KF)	1	
-10	1607284-1	. NUT, Adjusting (KF)	1	
-11	N0-4SS	. JAMNUT (KF)	1	
-12	PGO-4AAN	. NUT, Elastic Stop, Anodized AL, No. 4-48 (KF)	1	
-13	WO-4SS	. WASHER, CRES for No. 4 SCR (KF)	1	
-14	1607286-1	. RETAINER, Spring (KF)	1	
-15	1607506-1	. SPRING, Helical compression (KF)	1	
-16	1607279-1	. SHAFT, Cocking (KF)	1	
-17	1607677-1	. ROLLER (KF)	2	
-18	PRSH937-48B	. PIN Hardened CRES 0.0937 X 0.48 (KF)	1	
-19	1219270-13	. CAP, Shipping (KF)	1	
-20	AN822-5D	. ELBOW	1	
	1607299-1	. VALVE ASSEMBLY, Relief	1	
-21	1607282-1	. . SCREW, Spring adjusting	1	
-22	1607297-1	. . SPRING, Helical compression	1	
-23	1607298-1	. . POPPET, Relief valve	1	
-24	1607277-1	. . HOUSING, Relief valve	1	
-25	721975-1	. GAGE	1	
	1607318-1	. VALVE ASSEMBLY, Recharge	1	
	1607317-1	. . CAP ASSEMBLY	1	
-26	RO-402-1/2SS	. . . SCREW, CRES (4-48 x 5/32)	1	
-27	1603310-3	. . . CHAIN, Bead	1	
-28	1602678-1	. . . RING, Connecting	1	
-29	1605561-1	. . . PLUG, Valve	1	
-30	AN805-C3	. . . NUT, Union	1	
-31	1605569-1	. . STEM, Valve	1	
-32	1607300-1	. . FITTING, Valve	1	
-32A	9120097-27	. . FILL VALVE (Note 1)	1	
-33	1607549-1	. CYLINDER, Oxygen	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
8-17-34	1607288-1	. SCREW, Valve retaining (KF)	1	
-35	1607316-1	. SPRING, Conical compression (KF)	1	
-36	1607278-1	. VALVE, Inlet (KF)	1	
-37	1607283-1	. SEAT, Valve (KF)	1	
-38	1602321-28	. PACKING, Preformed (KF)	1	
-39	1607226-1	. HOUSING, Pressure reducer	1	
	1601909-1	REPAIR KIT, F, Oxygen system	1	
	Notes: 1. Fill Valve can be used as an alternate to replace Recharge Valve Assembly P/N 1607318-1 or Valve Stem P/N 1605569-1 and Valve Fitting P/N 1607300-1.			

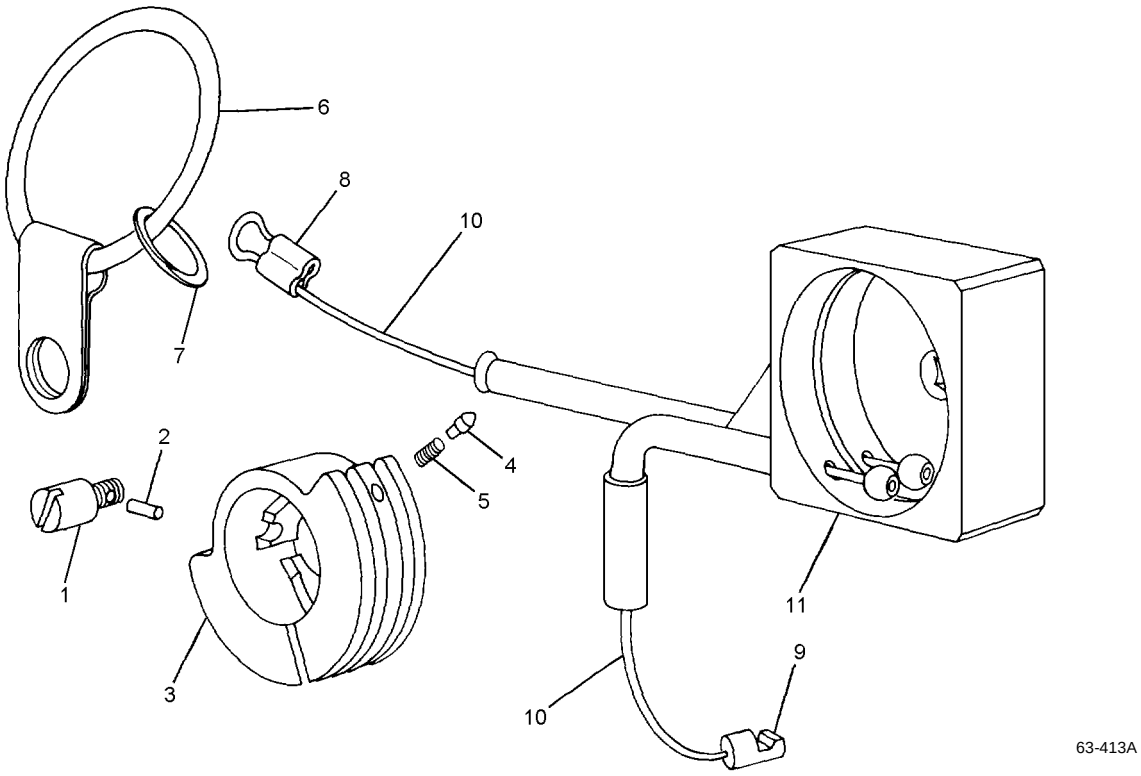


Figure 8-18. Cam and Cable Assembly, Part No. 1607326-1

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
8-18	1607326-1	CAM AND CABLE ASSEMBLY	REF	
-1	1607291-1	. STOP, Cam (KF)	1	
-2	1211708-7	. INSERT (KF)	1	
-3	1607289-1	. CAM RELEASE	1	
-4	1607280-1	. PLUNGER, Detent (KF)	1	
-5	1607287-1	. SPRING, Helical compression (KF)	1	
-6	1607341-1	. RING ASSEMBLY	1	
-7	1607321-1	. . RING, Connection (KF)	1	
-8	814301-3	. SLEEVE, Cable splicing (KF)	1	
-9	1607522-1	. COUPLING (KF)	1	
-10	1607323-1	. CABLE ASSEMBLY (KF)	2	
-11	1607338-1	. HOUSING	1	

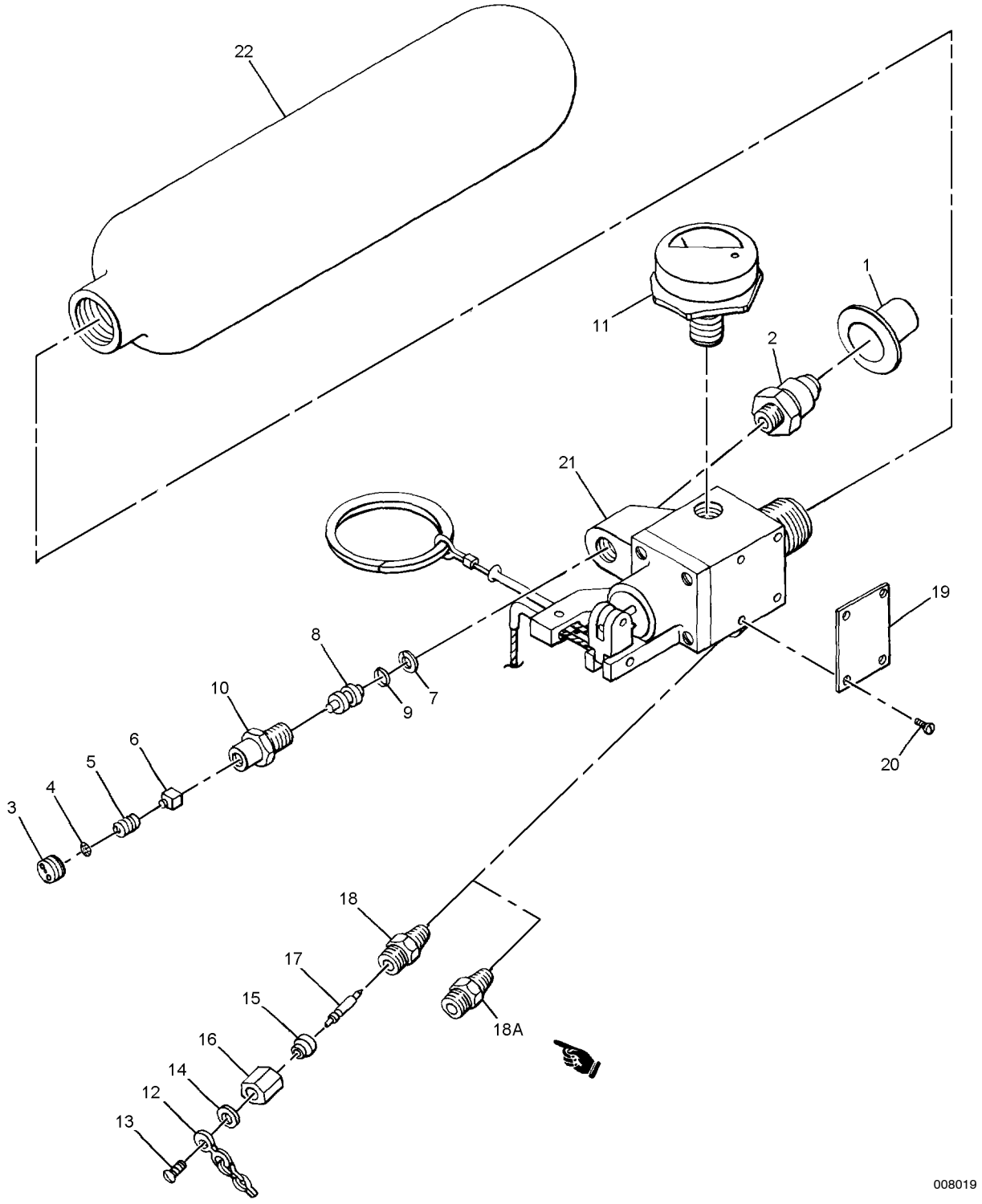


Figure 8-19. Emergency Oxygen System P/N F1513000-1/-5/-7/-9

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
8-19	F1513000-1	EMERGENCY OXYGEN SYSTEM (03990)	1	A
	F1513000-5	EMERGENCY OXYGEN SYSTEM (03990)	1	B
	F1513000-7	EMERGENCY OXYGEN SYSTEM (03990)	1	C
	F1513000-9	EMERGENCY OXYGEN SYSTEM (03990)	1	D
-1	206	. CAP, Protective dust and moisture seal (81904) (KD)	1	
-2	AN816-5D	. NIPPLE, Tube (KD)	1	
	F46400-10	. VALVE ASSEMBLY, Relief	1	
-3	F46405-1	. . SCREW, Spring adjusting (KD)	1	
-4	F46409-1	. . SCREEN, Relief valve (KD)	1	
-5	F46408	. . SPRING (KD)	1	
-6	F46407-1	. . SEAT ASSEMBLY, Relief valve (KD)	1	
-7	5000-25-W	. . RING, Retaining (79136) (KD)	1	
-8	F46404-3	. . INSERT, Relief Valve	1	
-9	FS5701-006	. . PACKING, Preformed	1	
-10	F46403-3	. . BODY, Relief valve	1	
-11	F3635585-1	. GAGE, Emergency oxygen, type L-2	1	
	F1263-1	. VALVE ASSEMBLY, Charging	1	
	F1375-1	. . CAP ASSEMBLY, Charging valve	1	
-12	F32875-2	. . . CHAIN (ATTACHING PARTS)	1	
-13	AN530C2-4	. . . SCREW ---*---	1	
-14	F1378-1	. . . WASHER, Charging valve cap	1	
-15	F1377-1	. . . PLUG, Charging valve cap	1	
-16	F1376-1	. . . NUT, Charging valve cap	1	
	F2641-1	. . BODY ASSEMBLY, Charging valve	1	
-17	F3635241-1	. . . CORE, Valve, high pressure air (KD)	1	
-18	F1374-1	. . . BODY, Charging valve	1	
-18A	9120097-27	. . FILL VALVE (Note 1)	1	
-19	F1513016-1	. PLATE, Identification, Emergency Oxygen System	1	ABC
	F1513016-3	. PLATE, Identification, Emergency Oxygen System (ATTACHING PARTS)	1	D
-20	AN53500-2	. SCREW ---*---	4	
-21	F1513017-1	. REDUCER AND ACTUATOR ASSEMBLY, Emergency Oxygen (See figure 8-20 for BKDN)	1	A
	F1513017-5	. REDUCER AND ACTUATOR ASSEMBLY, Emergency Oxygen (See figure 8-20 for BKDN)	1	B
	F1513017-7	. REDUCER AND ACTUATOR ASSEMBLY, Emergency Oxygen (See figure 8-20 for BKDN)	1	C

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
8-19	F1513017-9	. REDUCER AND ACTUATOR ASSEMBLY, ... Emergency Oxygen (See Figure 8-20 for BKDN)	1	D
-22	MS26545A2X-0022	. CYLINDER, Nonshatterable, compressed gas	1	
	F170184	REPAIR KIT, Emergency Oxygen System . . . . . Overhaul Hardware	1	A
	F170185	REPAIR KIT, Emergency Oxygen System . . . . . Overhaul Cure Date	1	A
	F170364	REPAIR KIT, Emergency Oxygen System . . . . . Overhaul Hardware	1	BCD
	Notes: 1. Fill Valve can be used as an alternate to replace Charging Valve Body Assembly P/N F2641-1 or Vlave Core P/N F3635241-1 and Body P/N F1374-1.			

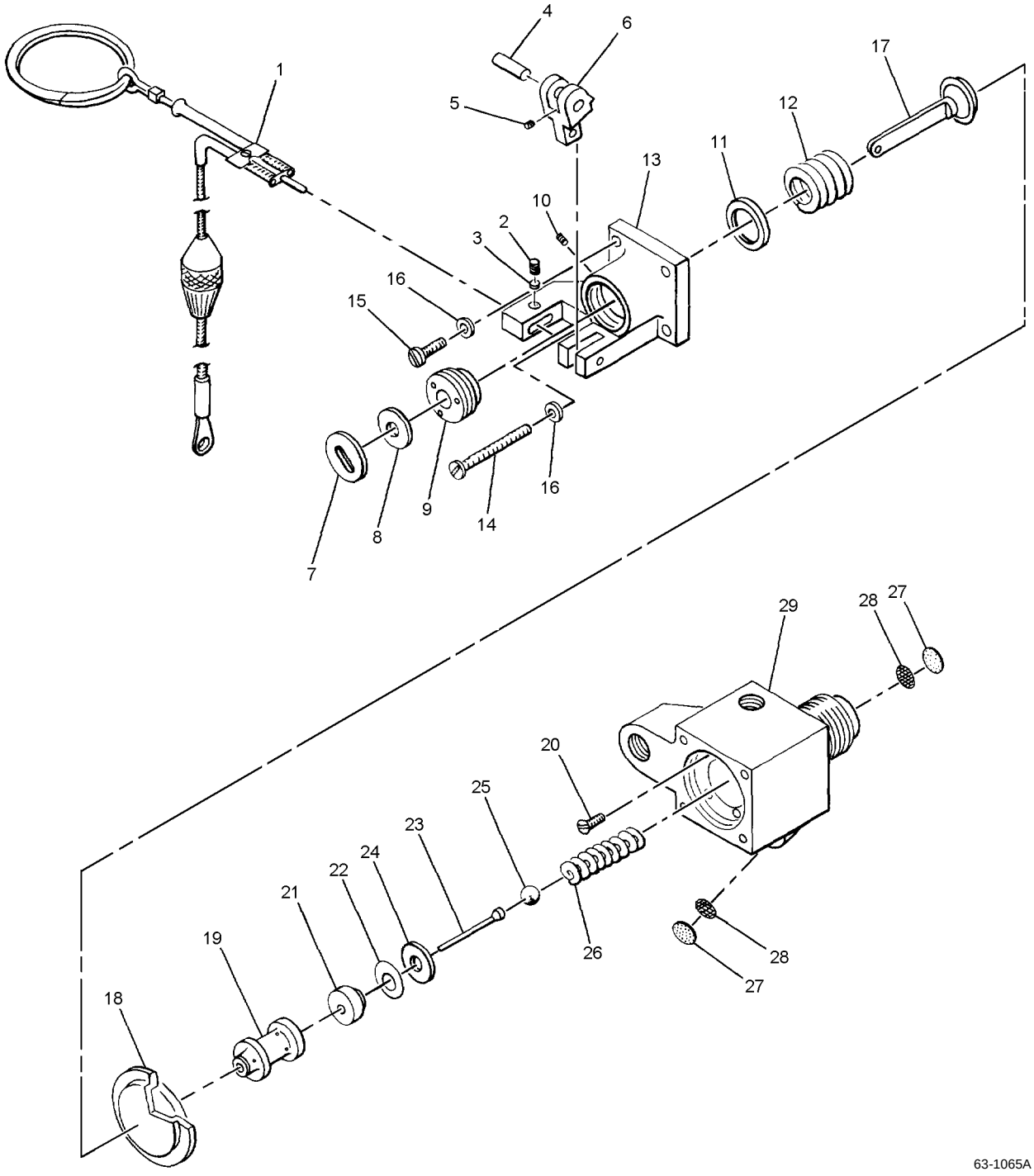


Figure 8-20. Emergency Oxygen Reducer and Actuator Assembly

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
8-20	F1513017-1	REDUCER AND ACTUATOR ASSEMBLY, ... Emergency Oxygen System (See figure 8-19 for NHA)	REF	A
	F1513017-5	REDUCER AND ACTUATOR ASSEMBLY, ... Emergency Oxygen System (See figure 8-19 for NHA)	REF	B
	F1513017-7	REDUCER AND ACTUATOR ASSEMBLY, ... Emergency Oxygen System (See figure 8-19 for NHA)	REF	C
	F1513017-9	REDUCER AND ACTUATOR ASSEMBLY, ... Emergency Oxygen System (See figure 8-19 for NHA)	REF	D
-1	F1513012-1	. ACTUATOR ASSEMBLY, Reducer	1	A
	F1513012-3	. ACTUATOR ASSEMBLY, Reducer	1	B
	F1513012-5	. ACTUATOR ASSEMBLY, Reducer	1	C
	F1513012-7	. ACTUATOR ASSEMBLY, Reducer . . . . . (ATTACHING PARTS)	1	D
-2	AN565D6H2	. SCREW (KD)	1	A
	AN515C4-4	. SCREW (KD)	1	BCD
-3	AN935-4L	. WASHER (KD) . . . . . ---*---	1	BCD
	F1513005-1	. REDUCER ASSEMBLY, Off-On Pressure	1	A
	F1513005-7	. REDUCER ASSEMBLY, Off-On Pressure	1	BC
	F1513005-13	. REDUCER ASSEMBLY, Off-On Pressure	1	D
-4	F2321-3	. . PIN, Control Lever (KD) . . . . . (ATTACHING PARTS)	1	
-5	AN565D6H2	. . SCREW (KD) . . . . . ---*---	1	
-6	F2070-1	. . LEVER, Off-On	1	
-7	F2073-1	. . WASHER, Off-On lever (KD)	1	
	F2073-2	. . WASHER, Off-On lever (KD)	1	
	F2073-3	. . WASHER, Off-On lever (KD)	1	
-8	F1774078-1	. . SPACER, Pressure reducer (KD)	1	
-9	F2169-3	. . NUT, Adjusting . . . . . (ATTACHING PARTS)	1	
-10	AN565D4H2	. . SETSCREW (KD) . . . . . ---*---	1	
-11	F1542-1	. . WASHER, Regulator spring (KD)	1	
-12	F1569	. SPRING, Adjusting (KD)	1	
-13	F2068-5	. . HOUSING, Pressure reducer spring	1	A

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
8-20	F2068-7	. . HOUSING, Pressure reducing spring	1	BCD
		(ATTACHING PARTS)		
-14	AN500-6-16	. . SCREW (KD)	1	
-15	AN500-6-6	. . SCREW (KD)	3	
-16	AN935-6L	. . WASHER (KD)	4	
		---*---		
-17	F2374-2	. . STEM, Spring	1	
-18	F2602-3	. . DIAPHRAGM, Valve, flat	1	ABC
	F6400033-3	. . DIAPHRAGM, Assembly	1	D
-19	F1721-1	. . GUIDE, Valve	1	ABC
	F1721-5	. . GUIDE, Valve	1	D
		(ATTACHING PARTS)		
-20	AN515C8-4	. . SCREW (KD)	4	
		---*---		
-21	F1517-3	. . SEAT, Valve (KD)	1	ABC
	F4932062-3	. . SEAT, Valve (KD)	1	D
-22	FS5000-7	. . PACKING, Preformed (KD 1)	1	ABC
	FS5701-012	. . PACKING, Preformed (KD)	1	D
-23	F1647-1	. . STEM, Valve (KD)	1	D
-24	F4932063-1	. . PLATE (KD)	1	D
-25	216C1-16	. . BALL, Bearing (AAFS) (80049) (KD)	1	
-26	F1632	. . SPRING, Off-On valve (KD)	1	
-27	F2118-1	. . FILTER, Sintered, stainless steel (KD)	2	
-28	F1985	. . SCREEN FILTER (KD)	6	
-29	F1513107-1	. . BODY, Off-On pressure reducer	1	ABC
	F1513107-3	. . BODY, Off-On pressure reducer	1	D

NUMERICAL INDEX

Part Number	Figure and Index Number	SM&R Code
AN500-6-16	8-20-14	
AN500-6-6	8-20-15	
AN515C4-4	8-20-2	
AN515C8-4	8-20-20	
AN515-4R6	8-16-24	
AN530C2-4	8-19-13	
AN535-00-2	8-19-20	
AN565D4H2	8-20-10	
AN565D6H2	8-20-2	
	8-20-5	
AN6025AX22-21	8-19-22	
AN6030-1	8-16-22	
AN805-C3	8-17-30	
AN816-5D	8-19-2	
AN822-5D	8-17-20	
AN833-4D	8-16-20	
AN833-5D	8-16-19	
AN924-4D	8-17	
AN924-5D	8-17	
AN935-4L	8-20-3	
AN935-6L	8-20-16	
AN960C10	8-16-57	PAHZZ
AN960PD-4	8-16-53	
ASHO-404-1/2SCP	8-17-2	
CL204D2-1	8-16-52	
FS5000-7	8-20-22	
FS5701-006	8-19-9	
FS5701-012	8-20-22	
F1263-1	8-19	
F1374-1	8-19-18	
F1375-1	8-19	
F1376-1	8-19-16	
F1377-1	8-19-15	
F1378-1	8-19-14	
F1513000-1	8-16-15	
	8-19	
F1513000-5	8-16-15	
	8-19	
F1513000-7	8-16-15	
	8-19	
F1513000-9	8-16-15	
	8-19	
F1513005-1	8-20	
F1513005-13	8-20	
F1513005-7	8-20	
F1513012-1	8-20-1	
F1513012-3	8-20-1	

Part Number	Figure and Index Number	SM&R Code
F1513012-5	8-20-1	
F1513012-7	8-20-1	
F1513016-1	8-19-19	
F1513016-3	8-19-19	
F1513017-1	8-19-21	
	8-20	
F1513017-5	8-19-21	
	8-20	
F1513017-7	8-19-21	
	8-20	
F1513017-9	8-19-21	
	8-20	
F1513107-1	8-20-29	
F1513107-3	8-20-29	
F1517-3	8-20-21	
F1542-1	8-20-11	
F1569	8-20-12	
F1632	8-20-26	
F1647-1	8-20-23	
F170184	8-19	
F170185	8-19	
F170364	8-19	
F1721-1	8-20-19	
F1721-5	8-20-19	
F1774078-1	8-20-8	
F1985	8-20-28	
F2068-5	8-20-13	
F2068-7	8-20-13	
F2070-1	8-20-6	
F2073-1	8-20-7	
F2073-2	8-20-7	
F2073-3	8-20-7	
F2118-1	8-20-27	
F2169-3	8-20-9	
F2321-3	8-20-4	
F2374-2	8-20-17	
F2602-3	8-20-18	
F2641-1	8-19	
F32875-2	8-19-12	
F3635241-1	8-19-17	
F3635585-1	8-19-11	
F46400-10	8-19	
F46403-3	8-19-10	
F46404-3	8-19-8	
F46405-1	8-19-3	
F46407-1	8-19-6	
F46408	8-19-5	

NUMERICAL INDEX (CONT)

Part Number	Figure and Index Number	SM&R Code
F46409-1	8-19-4	
F4932062-3	8-20-21	
F4932063-1	8-20-24	
F6400033-3	8-20-18	
H10-04	8-17	
LWO-4SCP	8-17-3	
MS20470A4-7	8-16-52	
MS24694-S54	8-16-54	PAHZZ
MS27039-1-08	8-16-59	PAHZZ
NAS1203-6W	8-16-33	
NAS1203-8W	8-16-29	
NAS1203-9W	8-16-34	
NAS220-7	8-16-26	
NAS221-16	8-16-18	
NAS2221-10	8-16-17	
NAS561P2-7	8-16-42	
NAS561P3-7	8-16-11	
NAS679A3	8-17	
NO-4SS	8-17-11	
PGO-4AAN	8-17-12	
PRSH937-48B	8-17-18	
RO-402-1/2SS	8-17-26	XAGZZ
V66-1ACC-161	8-17	
WO-4SS	8-17-13	
1211708-7	8-18-2	
1219270-13	8-17-19	
1601909-1	8-17	PAOZZ
1602321-28	8-17-38	
1602678-1	8-17-28	
1603310-3	8-17-27	XAGZZ
1605561-1	8-17-29	XAGZZ
1605569-1	8-17-31	XAGZZ
1607226-1	8-17-39	PAGZZ
1607277-1	8-17-24	XAGZZ
1607278-1	8-17-36	
1607279-1	8-17-16	
1607280-1	8-18-4	
1607282-1	8-17-21	XAGZZ
1607283-1	8-17-37	
1607284-1	8-17-10	
1607285-1	8-17-8	PADZZ
1607286-1	8-17-14	PADZZ
1607287-1	8-18-5	
1607288-1	8-17-34	
1607289-1	8-18-3	PAOZZ
1607291-1	8-18-1	
1607297-1	8-17-22	XAGZZ
1607298-1	8-17-23	XAGZZ
1607299-1	8-17	
1607300-1	8-17-32	XAGZZ
1607316-1	8-17-35	
1607317-1	8-17	XAGZZ
1607318-1	8-17	PAOZZ
1607320-1	8-17-4	
1607321-1	8-18-7	
1607323-1	8-18-10	
1607326-1	8-17-1	
	8-18	
1607338-1	8-18-11	PAOZZ
1607341-1	8-18-6	PAOZZ
1607506-1	8-17-15	
1607522-1	8-18-9	
1607549-1	8-17-33	
1607677-1	8-17-17	
1608024-1	8-17-6	PAOZZ
1608235-1	8-17-7	
1617889-1	8-17-5	PAOZZ
2W18-10M	8-17	
	8-16-28	
2W18-4	8-17	
2W18-716M	8-17	
2W18-816M	8-17	
206	8-19-1	
216C1-16	8-20-25	
22K1-02	8-16-58	PAHZZ
247-530106	8-17-14	PAOZZ
249-530102-25	8-16-15	PAOZZ
249-530102-31	8-16-2	PAOGG
249-530102-41	8-16-3	
249-530103-5	8-16-8	
249-530103-7	8-16-7	
249-530105	8-16-9	
249-530107-31	8-16-12	
249-530107-41	8-16-13	
249-530110	8-16-50	
249-530112	8-16-40	
249-530113	8-16-41	
249-530114	8-16-47	
249-530115	8-16-46	
249-530116	8-16-45	
249-530117	8-16-44	
249-530118	8-16-43	
249-530119	8-16-35	
249-530119-11	8-16-37	

NUMERICAL INDEX (CONT)

Part Number	Figure and Index Number	SM&R Code
249-530120-3	8-16-38	
249-530121	8-16-36	
249-530122	8-16-39	
249-530123-11	8-16-30	
249-530123-21	8-16-31	
249-530125	8-16-32	
249-530167-3	8-16-6	
249-530167-5	8-16-5	
249-530167-7	8-16-4	
249-530189	8-16-49	
249-530190-7	8-16-25	
249-530198	8-16-10	
249-53050-41	8-16-1	
249-73305-79	8-16-23	
249-73357	8-16-21	
26CL-02	8-16-27	
29604-A1	8-16-16	
	8-18	
29604-A2A	8-16-16	
	8-18	
36D1321	8-16-49	
36H1323-31	8-16-32	
3647AS101-7	8-16-55	MDHZZ
3647AS101-8	8-16-56	MDHZZ
3647AS102-1	8-16-60	MDHZZ
5000-25-W	8-19-7	
52-012-062-0125	8-16-48	
68A77D4-1	8-16-50	
721975-1	8-17-25	
814301-3	8-18-8	
816919-5	8-17-9	
9120097-27	8-17-32A	PAGZZ
	8-19-18A	PAGZZ

CHAPTER 9

RIGID SEAT SURVIVAL KIT - 8 SERIES

(ROCKET JET AND SCOTT)

Section 9-1. Description

9-1. GENERAL.

9-2. The Rigid Seat Survival Kit - 8 Series (RSSK-8 Series) is designed for use with Douglas ESCAPAC ejection seats and functions as a seat cushion for the aircrewman as well as a container for an emergency oxygen system, liferaft and survival equipment (figures 9-1 and 9-2). There are three manufacturers of these kits, Rocket Jet Engineering Corp., Scott Aviation Corp. and East-West Industries.

NOTE

Unless otherwise indicated, all illustrations depict the latest configuration of the RSSK-8 as manufactured by Scott Aviation Corporation. Assembly, subassembly and detail part relationships for Rocket Jet and Scott kits are found in the Illustrated Parts Breakdown.

9-3. CONFIGURATION.

9-4. The RSSK-8 is constructed of a bonded fiberglass body and an extruded metal lip interconnecting the upper and lower containers. The kit is opened by the yellow handle mounted on the forward right side. Two adjustable retaining straps, permanently mounted on the upper container, provide attachment of the kit to aircrewman's torso harness. A flexible oxygen and communications hose installed on the aft left side of upper container provides connection for communications and oxygen functions between aircraft and aircrewman. The upper container assembly also houses a 53 cu in., 1800 psi, emergency oxygen cylinder capable of supplying over 10 minutes of breathing oxygen for high altitude bailout. Or, in the event of a failure of the aircraft oxygen system, emergency oxygen is available by pulling the manual oxygen release on the kit. Oxygen from the kit then flows to the aircrewman through the emergency oxygen system reducer in the kit. A check valve in the oxygen line prevents emergency oxygen from flowing into aircraft system or overboard from kit. The reducer is automatically operated by a lanyard connected between the actuator and aircraft structure during ejection. The liferaft and survival equipment are stowed in the lower container.

9-5. When seated aboard the aircraft, the aircrewman connects the kit quick-release fittings on his retaining straps to his torso harness. The personal service leads are connected via quick-disconnect fittings. These leads can be quickly disconnected by pulling the leads at the disconnect points.

9-6. SUBASSEMBLIES. The major subassemblies of the RSSK-8 are:

1. Emergency Oxygen System
2. Upper and Lower Containers
3. Release Mechanism
4. Dropline Assembly
5. Cushion
6. Hose Assembly
7. Survival Equipment Container
8. Harness Assembly

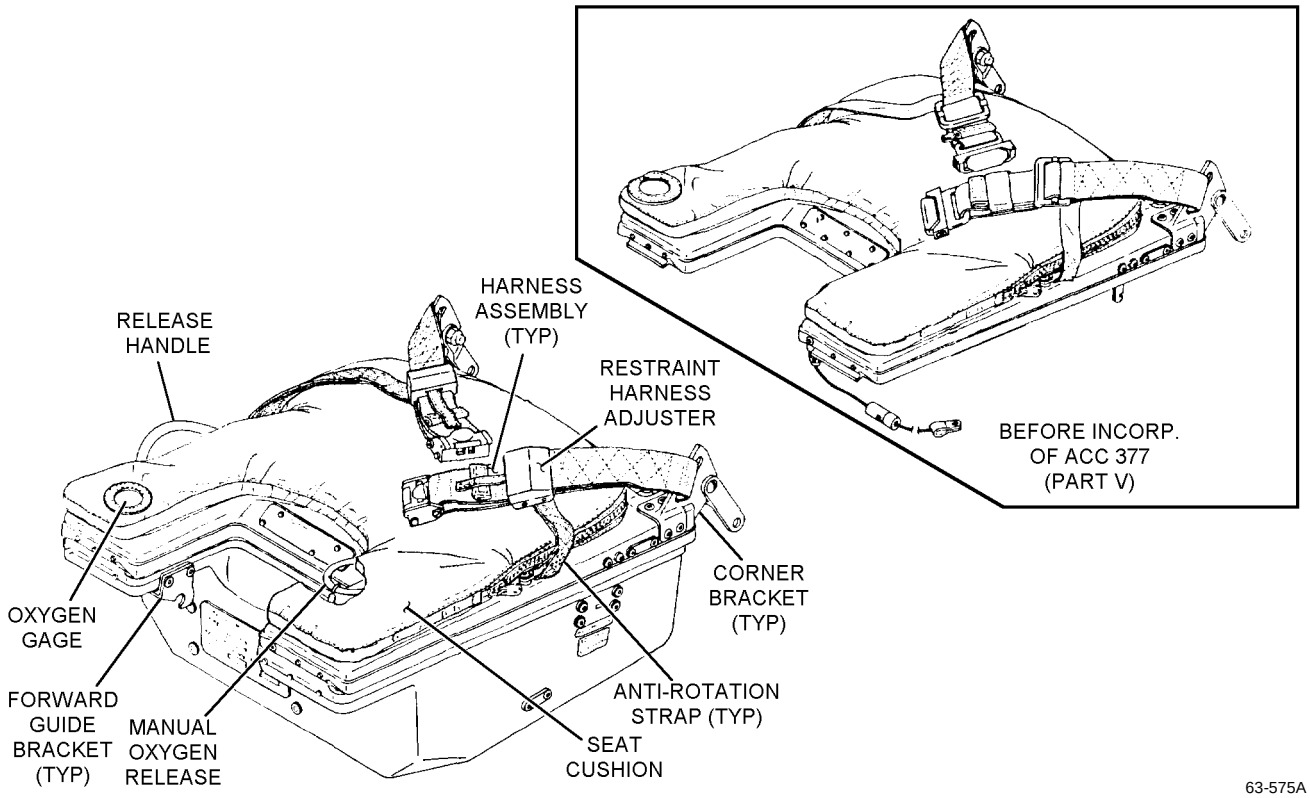


Figure 9-1. RSSK-8 Closed

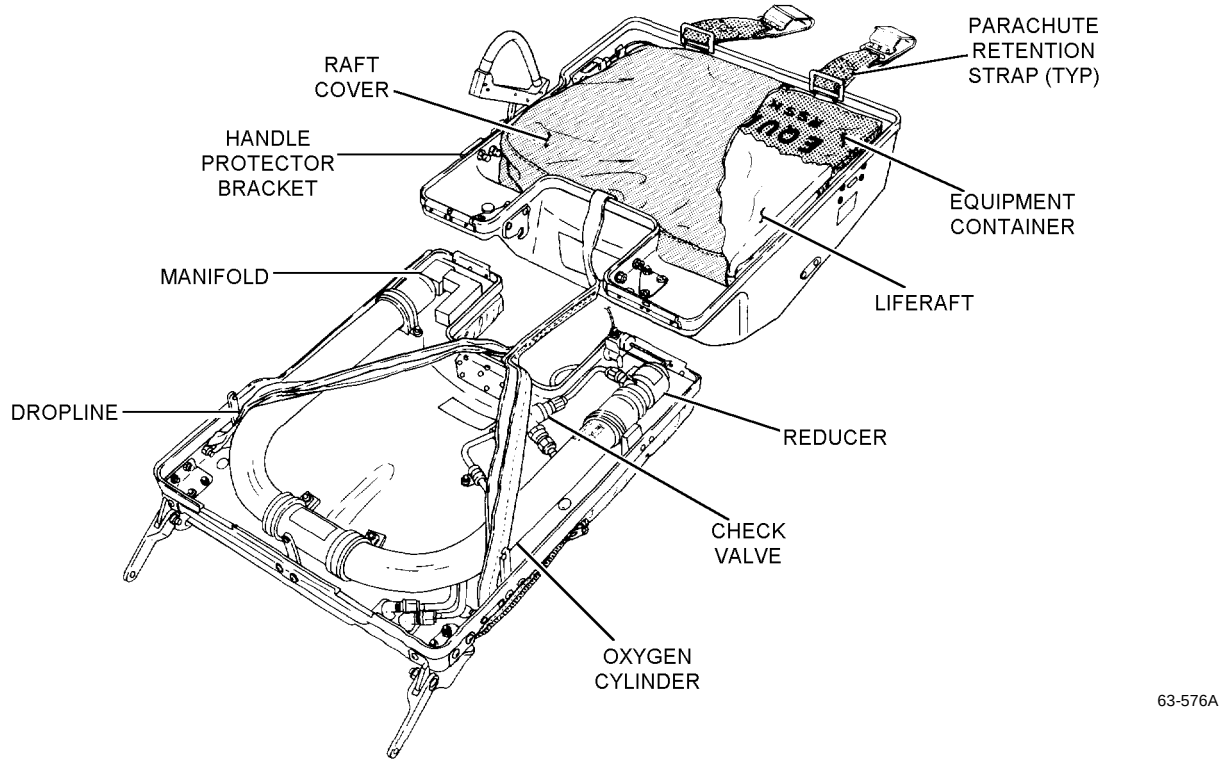


Figure 9-2. RSSK-8 Open

9-7. REFERENCE NUMBERS, ITEMS AND SUPPLY DATA.

9-8. Figures 9-18 through 9-29 are for Rocket Jet Engineering Corporation and figures 9-30 through 9-35 are for Scott Aviation Corporation. These figures contain information on each assembly, subassembly and component part for each RSSK-8. The figure and index number, reference or part number, description and units per assembly are provided.

WARNING

Similar parts from kits made by different manufacturers are not interchangeable. Attempts to substitute one manufacturer's part for another may cause the kit to malfunction. Make sure the parts and assembly lists are for the proper kit when servicing a kit, or ordering replacement components for it.

9-9. APPLICATION.

9-10. The RSSK-8 is a part of the survival equipment used by aircrewman aboard aircraft listed in table 9-1.

9-11. FUNCTION.

9-12. When the aircrewman ejects from the aircraft, the following functions occur:

1. The automatic actuation lanyard for the emergency oxygen system actuates the reducer assembly at seat ejection. The aircrewman is then supplied emergency oxygen for descent (figure 9-3).

NOTE

If automatic actuation of the emergency oxygen system fails, the emergency oxygen system may be actuated by means of the manual oxygen release (green ring).

2. The radio beacon is also actuated by means of an automatic actuation lanyard upon seat ejection. The beacon will provide a continuous signal during descent.

3. When a safe altitude is reached, the aircrewman pulls the kit release handle free of the kit. This unlocks the containers and the lower half falls away but remains attached by the dropline assembly. The liferaft, attached to the dropline, is automatically inflated when dropline reaches maximum extension and snubbing action initiates liferaft inflation assembly.

Table 9-1. RSSK-8 Application

Escape System	IC-3	IF-3	IG-3	IE-1
Aircraft	A-4F A-4M EA-4F TA-4F TA-4J	A-4F A-4M TA-4F TA-4J	A-4F A-4M TA-4F TA-4J	S-3A (See Note)

Notes: Survival kits used in S-3A Type A/C must be updated to provide compatibility with AIC-14 Intercommunication Systems and the Integrated Communication Control System. Refer to Section 9-2, Modifications.

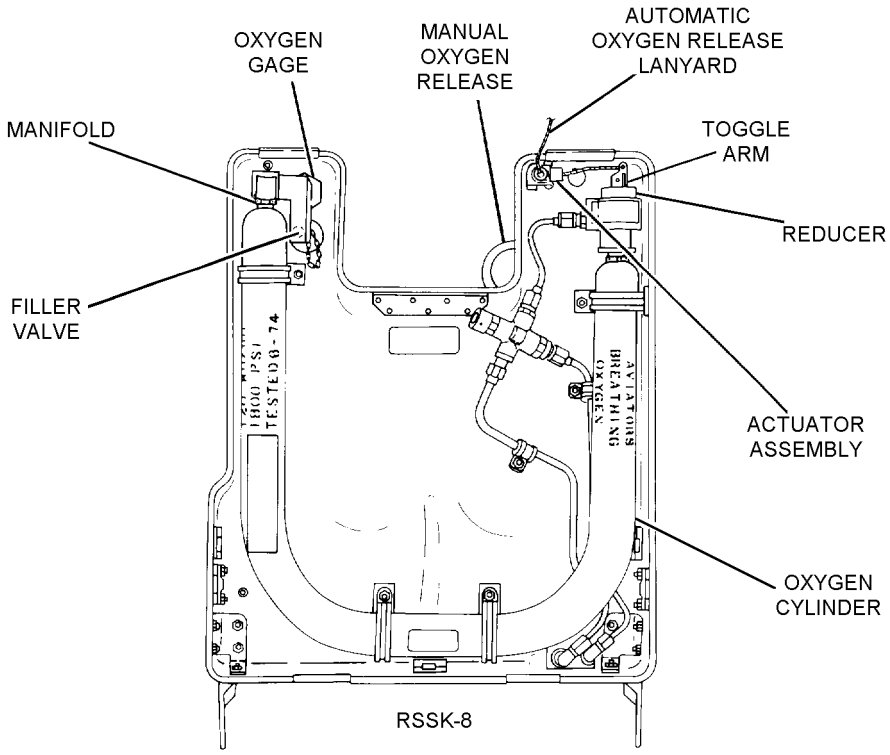


Figure 9-3. Emergency Oxygen Schematic

Section 9-2. Modifications

9-13. GENERAL.

9-14. The RSSK-8 shall be updated by comparing the configuration of the assembly with the directives listed in table 9-2. Repair, fabrication, and installation instructions to maintain serviceability are listed in table 9-3.

Table 9-2. Directives

Description of Modification	Application	Modification Code
Securing of RSSK-8 Equipment Container	All RSSK-8 Series Kits	66-332 Amend I
Modification of Emergency Oxygen Release Assembly	All RSSK-8 Series Kits	66-325 Part II Amend I
Installation of Structurally Improved Hardware	All RSSK-8 Series Kits	66-377
Installation of the Toggle Modification Kit on the Pressure Reducer Assembly	Only on the RSSK-8D's Seat Survival Kit	66-484

Table 9-3. Repairs/Fabrications/Installations

Description of Repairs/ Fabrications/Installations	Application	Paragraph
Installation of CX-13017/AR Electrical Cable Assembly (32-Inch)	All RSSK-8 Series Kits Used in S-3A A/C	Chapter 4

Section 9-3. Rigging and Packing

9-15. GENERAL.

9-16. Unless operational requirements demand otherwise, rigging and packing of the RSSK-8 shall be accomplished at Intermediate Levels of maintenance by qualified personnel in accordance with applicable aircraft maintenance requirement cards (MRCs).

NOTE

Quality assurance steps are provided for critical operations. When a step is underlined, the Aircrew Survival Equipmentman shall perform the operation and then have performance verified by Quality Assurance (QA).

9-17. RIGGING AND PACKING PROCEDURES.

9-18. Rigging and packing of the RSSK-8 is accomplished in eight separate operations as follows:

1. Preliminary Procedures.
2. Radio Beacon Rigging and Installation
3. Survival Equipment Binding
4. Survival Equipment Packing
5. Stowing Dropline
6. Liferaft Preparation, Folding, Rigging and Packing
7. Closing Container
8. Cockpit Routing and Installation of the Emergency Radio Beacon Lanyard

9-19. PRELIMINARY PROCEDURES. The following preliminary procedures shall be accomplished prior to rigging and packing the RSSK-8.

1. Ensure RSSK-8 and components have been inspected in accordance with Section 9-5.

2. Inspect oxygen hose assemblies in accordance with Chapter 4.

3. Remove upper container assembly from lower container assembly.

4. Remove liferaft cover. Inspect liferaft cover for damaged fabric and loose, broken, or frayed stitching.

WARNING

CO_2 bottle is under pressure. Use caution when disconnecting CO_2 bottle from liferaft. Do not loosen or attempt to remove inflation valve assembly from CO_2 cylinder.

CAUTION

Ensure actuating line is disconnected from CO_2 cylinder inflation valve before removal of CO_2 cylinder from liferaft.

5. Disconnect CO_2 cylinder from liferaft as follows:

a. Carefully remove liferaft from container.

b. Disconnect actuation line from CO_2 cylinder.

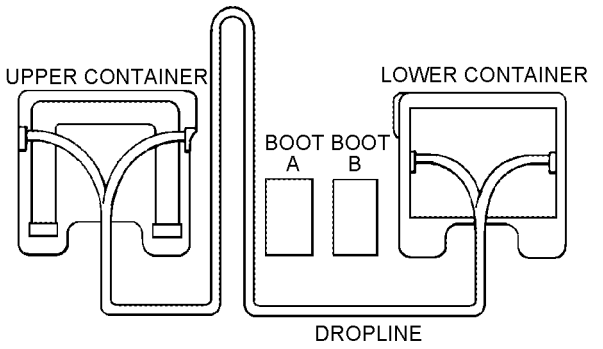
c. Disconnect CO_2 cylinder from liferaft.

d. Remove large loop of drop line from CO_2 cylinders neck.

e. Ensure anti-chafing disc is installed. Reconnect CO_2 cylinder to liferaft finger tight. If functional test is required torque valve 80 to 90 in-lbs.

6. Ensure liferaft and CO_2 cylinder have been inspected in accordance with NAVAIR 13-1-6.1-1.

7. Remove dropline from boots and align kit components on a clean flat surface as shown.



Step 7 - Para 9-19

NOTE

A newly fabricated or procured dropline assembly will have a final dimension of 26 feet, 4 inches ±2 inches. However, a dropline assembly is subjected to a certain amount of stretch during its stowing process, and shrinkage during its cleaning process, therefore a tolerance of ±12 inches is acceptable for an older dropline assembly.

8. Inspect dropline to ensure proper attachment to upper and lower containers. Also ensure dropline length is 26 feet, 4 inches ±12 inches.

9. Ensure survival items have been inspected in accordance with NAVAIR 13-1-6.5.

NOTE

Ensure battery service life does not expire prior to the next scheduled inspection cycle of the assembly in which the radio set is installed. Refer to NAVAIR 16-30URT33-1 for battery service life.

10. Remove radio beacon set from kit and ensure that the battery and radio beacon have been inspected in accordance with NAVAIR 16-30URT33-1.

11. Check seat pan and cushion assembly for cuts, tears, and abrasions, and hardware for security of attachment, corrosion, damage, wear, and ease of operation.

12. (Before ACC 377) Ensure security of closure strap and attaching hardware.

9-20. RADIO BEACON RIGGING AND INSTALLATION. To rig and install the AN/URT-33 emergency radio beacon, proceed as follows:

Materials Required

Quantity	Description	Reference Number
1	Beacon Set, Radio AN/URT-33A	MIL-B-38401A
1	Actuator Indicator Assembly	CL204D3-11, (CAGE 80206) NIIN 00-127-5597
1	Pin, Cotter, Hairpin	LHCOTC, (CAGE 96652) NIIN 00-956-5635
1	Lanyard, Actuating AN/URT-33A (Note 1)	CL204C4-5
1	Lanyard, Actuating AN/URT-33A (Note 2)	CL204C4-6

Notes: 1. S-3 aircraft pilot and copilot positions, 1 each.

2. S-3 aircraft TACCO and SENSO positions, 1 each, and A-4/TA-4 aircraft.

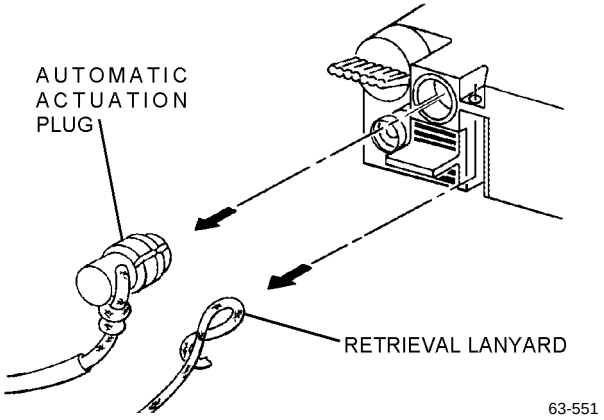
NOTE

Ensure slider switch on radio beacon is OFF. Slider switch is in OFF position when the word ON is not visible on radio beacon housing.

Determine if beacon has been modified in accordance with steps 1 through 4 before proceeding to step 5.

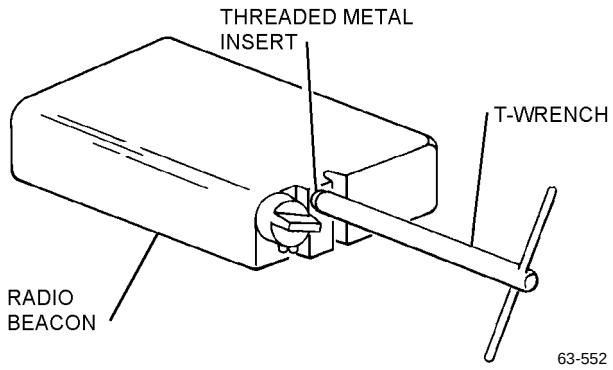
Retain automatic actuation plug, lanyard, and metal insert in shop area for possible future use.

1. Remove and retain automatic actuation plug and lanyard. Remove and discard retrieval lanyard.



Step 1 - Para 9-20

2. Remove threaded metal insert from beacon using locally manufactured T-wrench. (See paragraph 9-79 for fabrication instructions.)



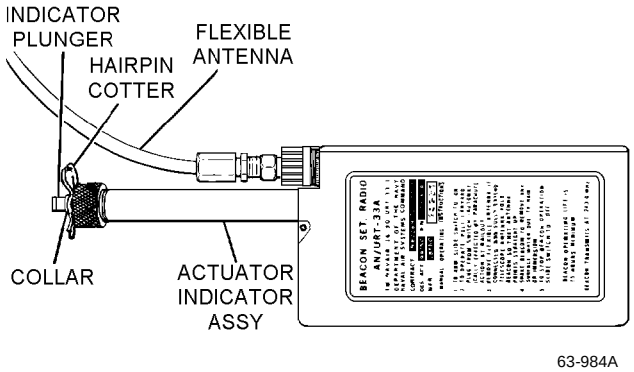
Step 2 - Para 9-20

3. Install actuator indicator assembly (P/N CL204D3-11) handtight in beacon position from which threaded metal insert was removed.

4. Depress indicator plunger, align holes in plunger and collar, and insert hairpin cotter.

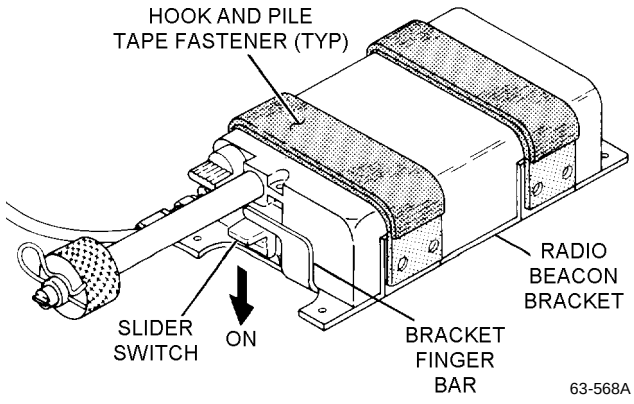
5. Ensure hairpin cotter and collar are free to rotate 360° without binding. If hairpin cotter and collar are free proceed to step 7. If hairpin cotter and collar do not rotate, refer to NAVAIR 16-30URT33-1.

6. Connect flexible antenna to radio beacon. Push bayonet type fitting in and turn to right.



Step 6 - Para 9-20

7. Ensure slider switch is in ON position and install beacon assembly in bracket in lower container of kit. Secure beacon with hook and pile tape fasteners.



Step 7 - Para 9-20

8. Route flexible antenna around periphery of lower container.

9-21. SURVIVAL EQUIPMENT BINDING. Ensure all survival items have been inspected in accordance with NAVAIR 13-1-6.5 Technical Manual before binding. To bind survival items, proceed as follows (table 9-4).

NOTE

To prevent loss of survival items, they will be tied individually and then tied to a 140-inch length of nylon cord. Nylon cord of the prescribed lengths required for this procedure shall be seared at both ends to prevent fraying (table 9-5).

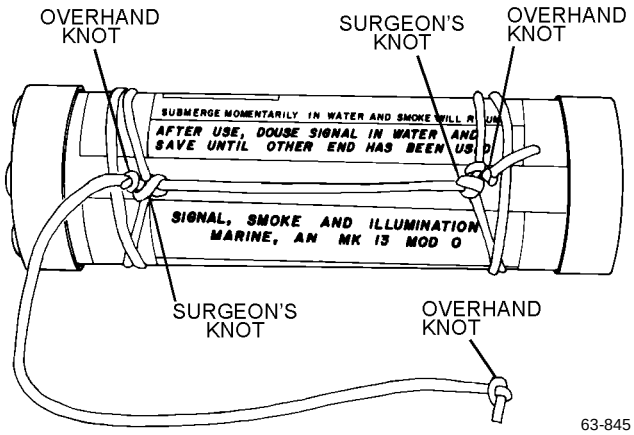
All cord used shall be nylon (MIL-C-5040, Type I).

1. Using a 36-inch piece of nylon cord, tie on overhand knot in each end. Wrap end of cord two overlapping turns around end of a signal flare and tie with a surgeon's knot positioned snugly against cord-end overhand knot.

NOTE

The cord between end-ties shall be drawn tight.

2. Route cord to opposite end of signal flare. Wrap cord two overlapping turns around flare and tie with surgeon's knot followed by an overhand knot positioned snugly against surgeon's knot.



Step 2 - Para 9-21

3. Tie the other signal flare in the same manner as steps 1 and 2.

4. Using a 12-inch piece of nylon cord, tie an overhand knot near each end. Pass overhand knot through center grommet in dye marker and tie a bowline knot, allowing approximately a 1-inch loop. Bowline knot should lie snugly against overhand knot.

Step 4 - Para 9-21

Table 9-4. Survival Kit Items (Note 1)

Item Name	Quantity	Reference Number
Cord, Fibrous Nylon, Type I	50 ft	NAVAIR 13-1-6.5
Signal, (Flare), Smoke and Illumination, MK-13 MOD 0 or MK-124 MOD 0 (Note 2)	2	NAVAIR 13-1-6.5
Sea (Dye) Marker, Fluorescein	2	NAVAIR 13-1-6.5
Sponge, (Bailing), Cellulose Type II, Class 2	1	NAVAIR 13-1-6.5
SRU-31/P Survival Kit, Packet #1 (Medical) (Note 3)	1	NAVAIR 13-1-6.5
SRU-31/P Survival Kit, Packet #2 (General) (Notes 3 and 4)	1	NAVAIR 13-1-6.5
SRU-31A/P (Note 8)	Optional	NAVAIR 13-1-6.5
Water, Drinking, Canned (Note 5)	1	NAVAIR 13-1-6.5
Water, Drinking, Emergency (Note 7)	3	NAVAIR 13-1-6.5
Opener, Can, Hand	1	NAVAIR 13-1-6.5
Ground/Air Emergency Code Card	1	NAVAIR 13-1-6.5
Blanket, (Combat) Casualty (3 oz.) (Note 6)	1	NAVAIR 13-1-6.5
Envelope, Packing List	2	NAVAIR 13-1-6.5
Beacon Set, Radio	1	NAVAIR 13-1-6.5
Liferaft, Inflatable	1	NAVAIR 13-1-6.1-1
Lowering Device (Note 6)	1	NAVAIR 13-1-6.5

Notes:

1. The items listed are typical and are considered mandatory for inclusion in the survival kit container. Deviation from the listed items may be required by certain Functional Air Wings (FUNCWINGS), Carrier Air Wings (CVW), COMFAIRS, or Marine Air Wings (MAW). Requests for deviations must be forwarded to and authorized by TYCOMS and with information to Fleet Support Team (FST) at NAVAIR-WARCENACDIV Patuxent River MD via Naval Message. When optional items are substituted, particular attention must be paid to the binding sequence so that physical sizes and binding order of substituted items remain approximately the same. That portion of an item name in parentheses is a common-use name or container size and is not intended for supply requisition purposes.
2. MK-13 MOD 0 shall be used until stocks are depleted. MK-124 MOD 0 will replace MK-13 MOD 0 as stocks become available.
3. SRU-31/P complete kits, including Medical Packet (#1) and General Packet (#2), may be ordered; instructions for packing and ordering these kits are found in NAVAIR 13-1-6.5.
4. SRU-31/P Packet #2 (General) must be stowed on aviator's person if kit includes lowering device.
5. One additional canned water may be added as optional item.
6. Optional equipment.
7. When the supply for emergency canned water has been exhausted, order emergency bagged water in accordance with NAVAIR 13-1-6.5.
8. The selection of SRU-31/P or SRU-31A/P Individual Aircrewmember's Survival Kit will be at the discretion of the TYPE COMMANDER depending on mission requirements, reference NAVAIR 13-1-6.5, Chapter 9, for detailed information.

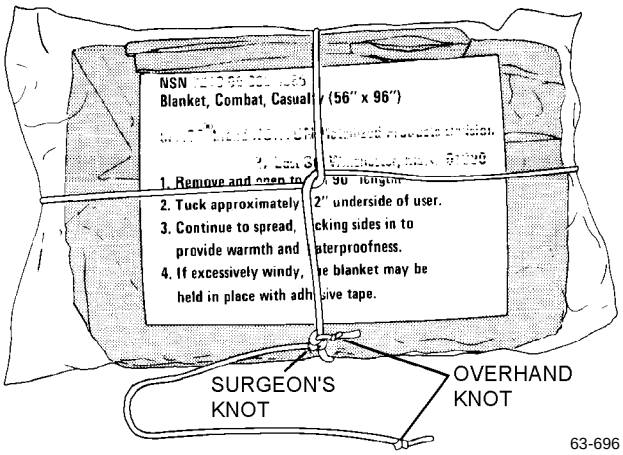
Table 9-5. Nylon Cord Lengths Required for Binding

Length (Inches)	Number Required
140	1
12 (Note 1)	4
30	2
36	2
40	2
50 (Note 1)	2

Notes: 1. When using bagged water in place of canned emergency water, the number of required 12 inch lengths will be a total of 5 and the required 50 inch lengths will be a total of 1.

5. Tie the second sea dye marker in the same manner as step 4.

6. If casualty blanket is used, tie an overhand knot near each end of a 30-inch piece of nylon cord. Wrap cord around blanket until both ends meet, then rotate cords 1/4 turn and wrap cords around opposite sides of blanket. Tie with a surgeon's knot. Ensure cord-end overhand knot is positioned snugly against surgeon's knot.



Step 6 - Para 9-21

7. Using a 50-inch piece of nylon cord, tie an overhand knot near both ends. Wrap one end of cord two overlapping turns around end of canned water and tie with surgeon's knot. Position cord-end overhand knot snugly against surgeon's knot.

Step 7 - Para 9-21

NOTE

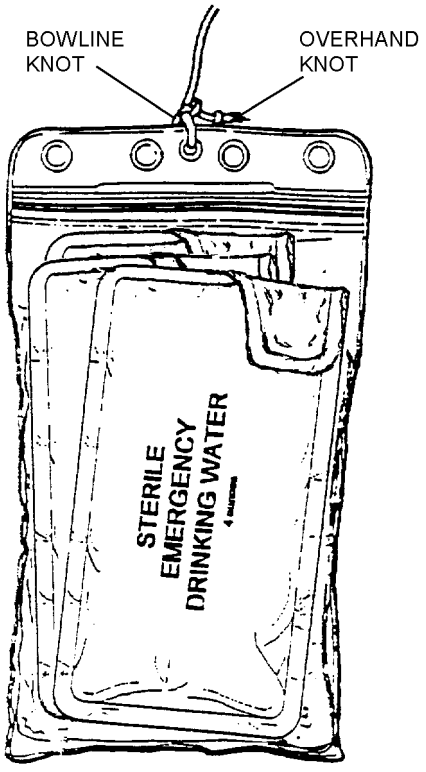
Cord between end-ties shall be drawn tight. Route cord to opposite end of can. Wrap cord two overlapping turns around end of can and tie with surgeon's knot followed by an overhand knot positioned snugly against surgeon's knot.

8. If a second canned water is to be used, it shall be secured in the same manner as step 7.

NOTE

Replacement rate of exhausted canned water shall be in accordance with the NAVAIR 13-1-6.5 manual. Bagged emergency drinking water shall be stowed in the same order as canned emergency water. The bags of water shall be stowed in a flat configuration.

9. Bagged water. Place a maximum of three 4-ounce bagged emergency drinking water flat inside a clear vinyl envelope (MIL-B-117) with pour spout folded down. Bagged water must be able to fit into envelope without disrupting the closure of the sealing slide fastener. Using a 12-inch length of cord, tie an overhand knot on each end and pass knot through center hole in envelope. Secure with bowline knot, allowing an approximate 1-inch loop. Position an overhand knot snugly against the bowline knot. Ensure overhand knot is snug against surgeon's knot.

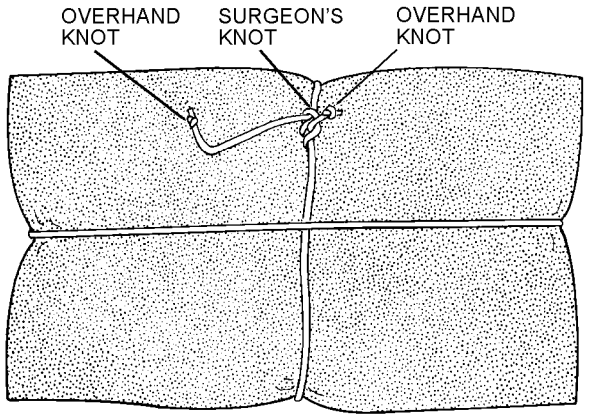


Step 9 - Para 9-21

NOTE

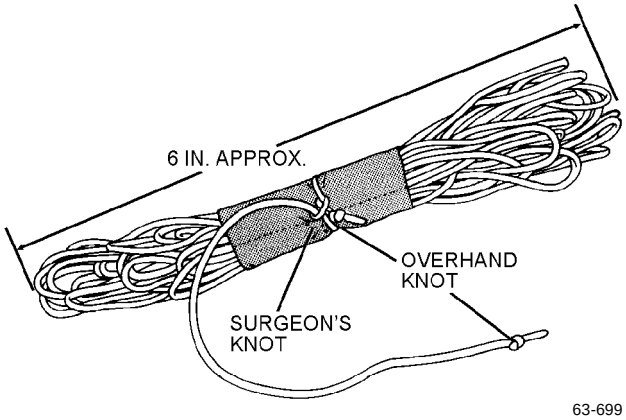
The bailing sponge should be compressed to a minimum thickness by compressing while damp and then allowing to dry in the compressed state before tying.

10. Using a 30-inch length of nylon cord, tie an overhand knot near the ends. Wrap cord around sponge until both ends meet, then rotate cords 1/4 turn and wrap cords around opposite sides of sponge. Tie with a surgeon's knot. Ensure cord-end overhand knot is positioned snugly against surgeon's knot.



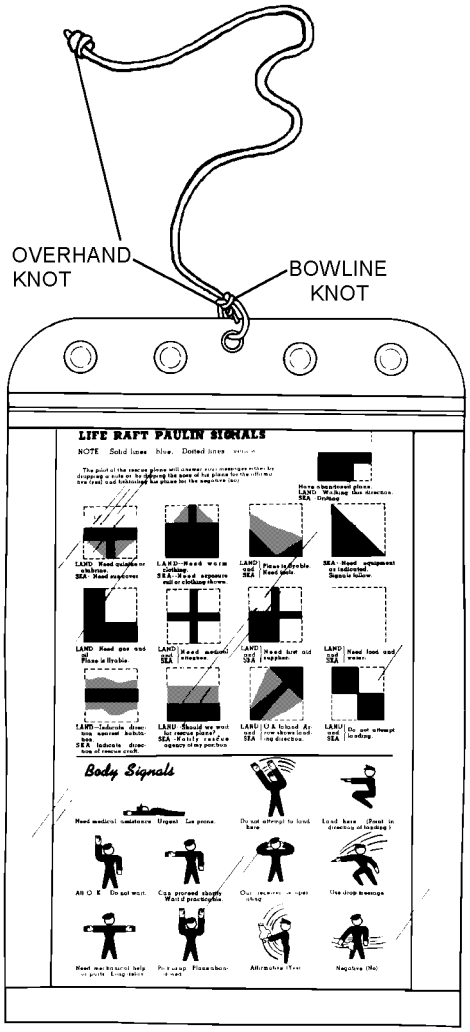
Step 10 - Para 9-21

11. Cut one 2 x 3-inch piece of nylon duck material. Accordion fold the 50-foot length of nylon cord in 6-inch bights and wrap material around center of accordion folded cord. Using a 12-inch piece of nylon cord, tie an overhand knot near each end and secure one end of the cord to center of material with a surgeon's knot. Position cord-end overhand knot snugly against surgeon's knot.



Step 11 - Para 9-21

12. Place Ground/Air Emergency Code Card into clear vinyl plastic envelope (MIL-B-117) and close the sealing zipper. Using a 12-inch piece of cord, tie an overhand knot in each end and pass knot through center hole in envelope. Secure with a bowline knot, allowing a 1-inch loop. Cord-end overhand knot shall be snugly against bowline knot.



63-700

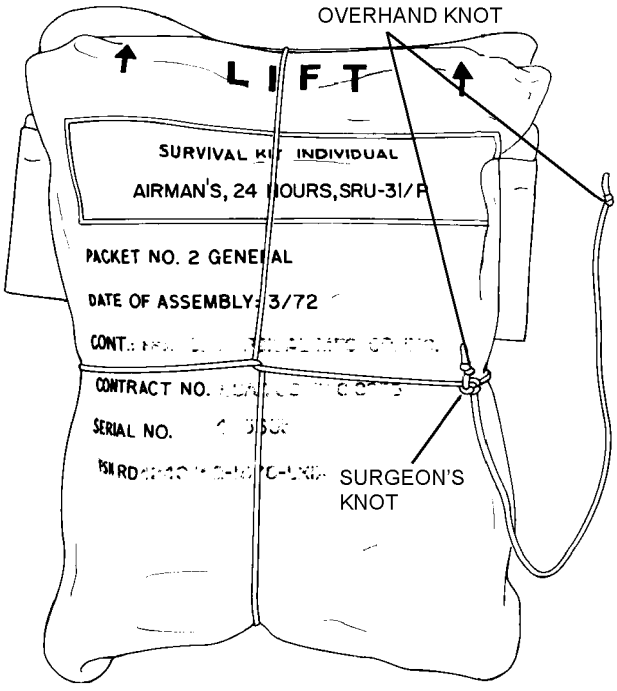
Step 12 - Para 9-21

NOTE

If the PLD (Personnel Lowering Device) is to be installed in the RSSK-8, the SRU-31/P Survival Kit shall be stowed on the aviator.

Fold SRU-31/P Packet #1 approximately in half prior to binding.

13. Using a 40-inch length of nylon cord, tie an overhand knot in both ends. Wrap cord around one packet of SRU-31/P Survival Kit until both ends meet, then rotate cord 1/4-turn and wrap cords around opposite sides of packet. Tie with a surgeon's knot. Cord-end overhand knot shall be positioned snugly against surgeon's knot.



63-701

Step 13 - Para 9-21

14. Secure the second SRU-31/P packet in the same manner as step 12.

15. Ensure survival items are properly tied.

16. Using the 140-inch piece of Type I nylon cord, form a 3/4 to 1-inch overhand loop approximately 12 inches from one end. Continue forming loops every 5 inches until there is enough to accommodate all required survival items. Ensure a minimum of 25 ±1 inches of cord remain after forming the last overhand loop.

17. Tie each item to a loop on the 140-inch nylon cord (figure 9-4) using a surgeon's knot. Ensure each item's cord-end overhand knot is positioned snugly against surgeon's knot.

CAUTION

Ensure pointed end of can opener has adequate chafing cloth to prevent damage to other survival items.

18. Route 12-inch end of the 140-inch cord through the hole in the can opener and secure with a 1-inch loop bowline knot, followed by an overhand knot drawn snugly against bowline knot. Wrap can opener with chafing cloth secured by a rubberband (figure 9-4).

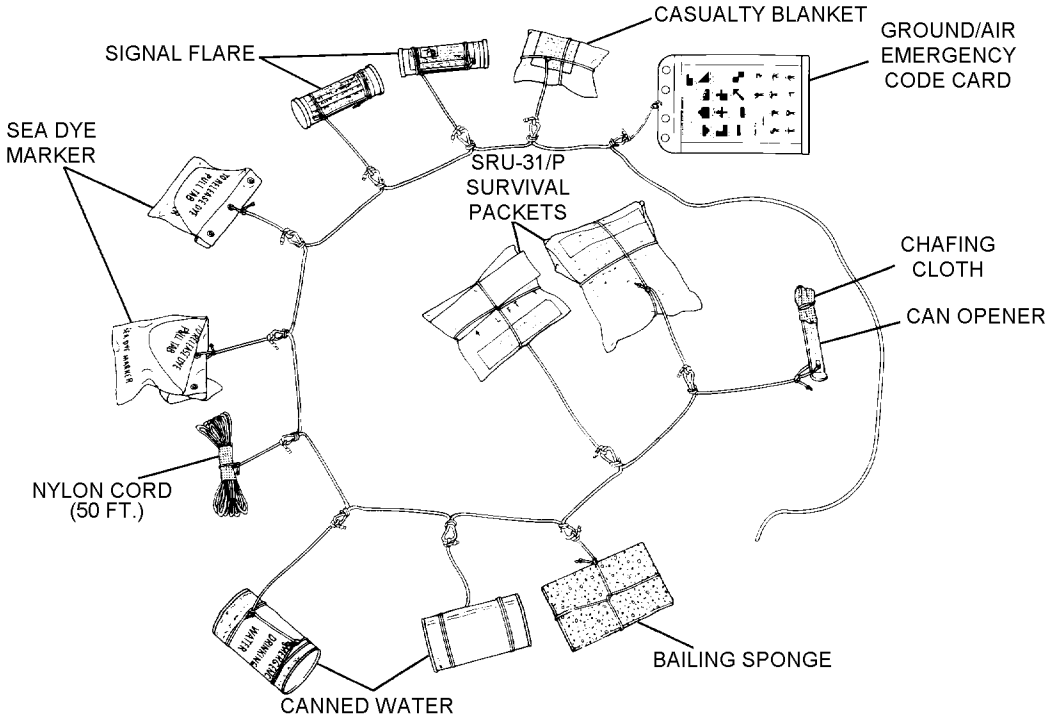
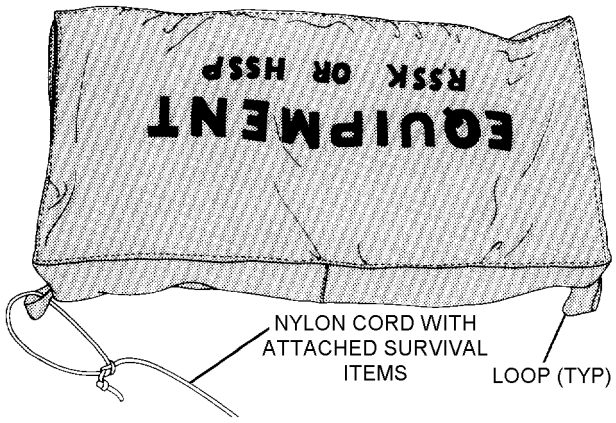


Figure 9-4. Binding Survival Items

9-22. SURVIVAL EQUIPMENT PACKING. To pack survival equipment, proceed as follows:

1. Place equipment container on table with attaching loops facing packer and the word EQUIPMENT facing up.

2. Attach bitter end of 140-inch nylon cord (with attached survival items) to the left-hand loop on equipment container with a bowline knot (2-inch approx. loop) and an overhand knot positioned snugly against bowline knot.



Step 2 - Para 9-22

3. Open equipment container by opening left slide fastener to the right.

NOTE

Survival items shall be stowed in a neat and orderly fashion and the items shall be arranged to obtain the flattest possible pack.

4. Stow survival items within height, length and width of the equipment container.

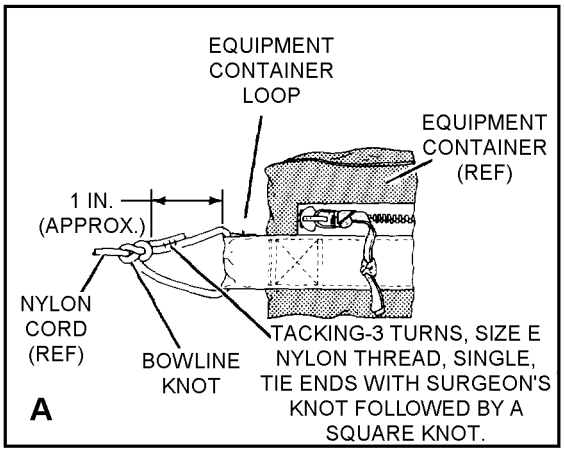
5. Close equipment container.

6. Place equipment container in aft section of lower container with slide fastener facing aft (figure 9-5).

NOTE

All tacking cord shall be coated with a mixture of 50% beeswax and 50% paraffin. The cord may be dipped in a melting pot 160° to 200°F or drawn across a solid block of the mixture.

7. Cut a 52 ±1-inch piece of nylon cord, Type III, MIL-C-5040, and sear ends. Secure cord to equipment container and dropline as shown in figure 9-5.



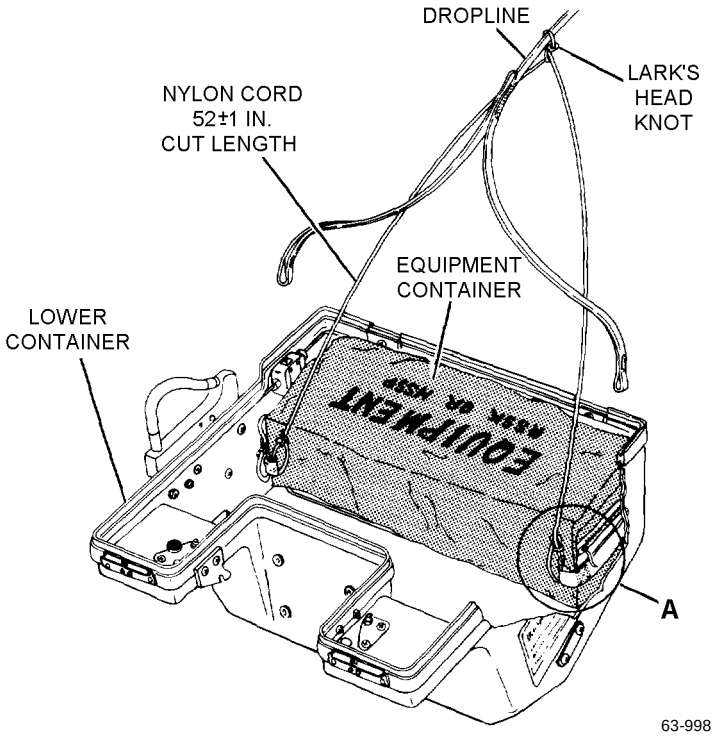


Figure 9-5. Stowed Survival Equipment

9-23. STOWING DROPLINE. To stow drop-line in boots, proceed as follows:

NOTE

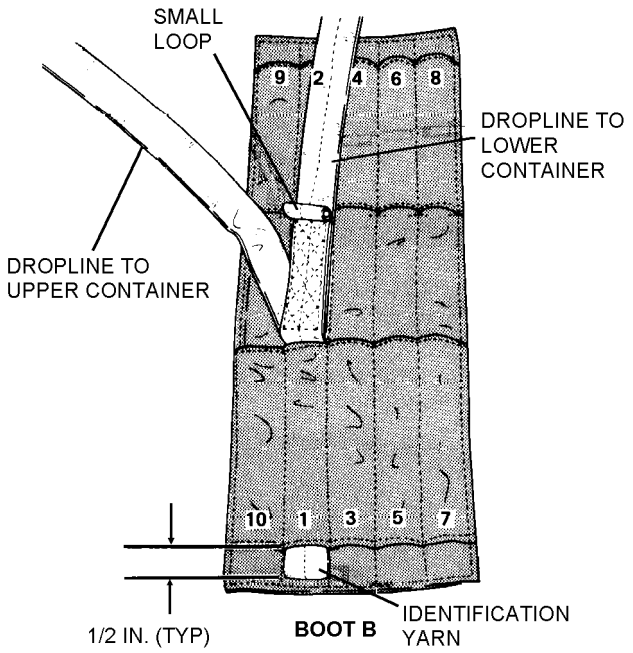
Stowage boots are referred to as boot A and boot B for identification purposes only. There are no physical differences between boots and the letters A and B do not actually appear on them.

Numbers on stowage channels of boots correspond to dropline bights and the order in which they are to be stowed. Numbers appear in illustration for clarity; they do not actually appear on stowage boots.

The identification yarn on earlier fabricated dropline assemblies may be located on the underside of the webbing. However, procedural steps depicting identification yarn location will be reversed throughout the dropline stowage procedures for these assemblies. Future fabrication of the dropline for the RSSK-8 will be in accordance with paragraph 9-78.

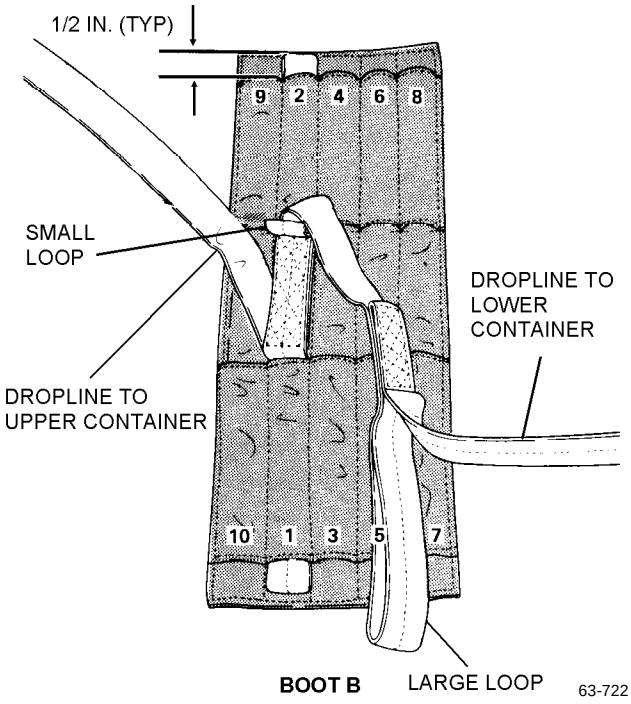
1. Lay dropline out flat between container halves with dropline loops facing up. Remove all twists from dropline prior to beginning stowing operation.

2. Position boot B to the left of lower container. Form the first bight 5 ±1/2 inch from base of small loop stitching. Bight shall be in portion of dropline going to upper container and small loop shall face up. Stow bight in channel 1 of boot B. Push bight in channel with a 7-inch length of 3/8-inch hard wood dowel tapered at one end. There shall be a 1/2-inch protrusion at end of channel and identification yarn shall be visible at protrusion.



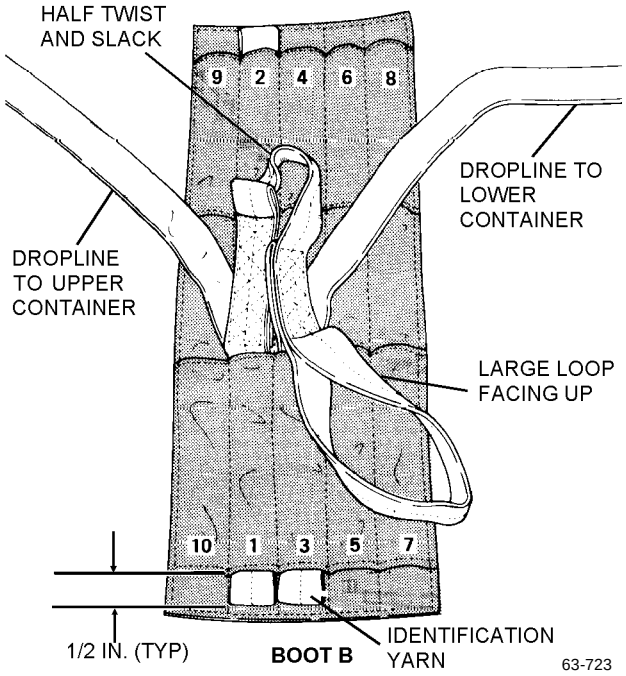
Step 2 - Para 9-23

3. Second bight shall be formed in portion of dropline going from small loop to large loop and shall be stowed in channel 2. Identification yarn shall not show at protrusion.



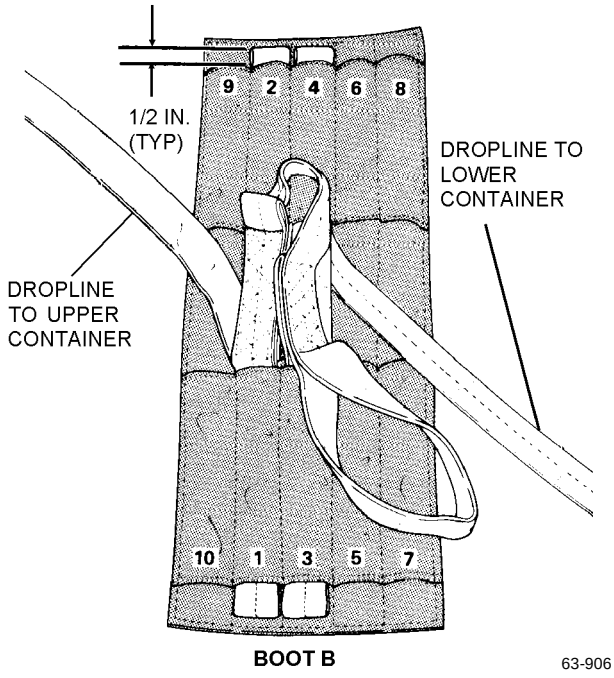
Step 3 - Para 9-23

4. Place a half-twist in dropline by rotating clockwise so that large loop faces up. Stow third bight in channel 3. A small amount of slack may exist between bights 2 and 3. Identification yarn shall be visible at protrusion.



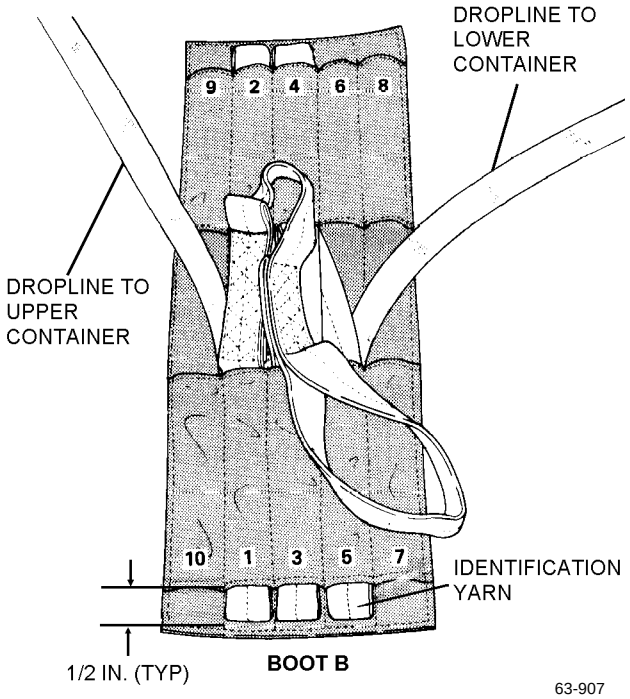
Step 4 - Para 9-23

5. Stow fourth bight in channel 4, ensuring that identification yarn does not show at protrusion.



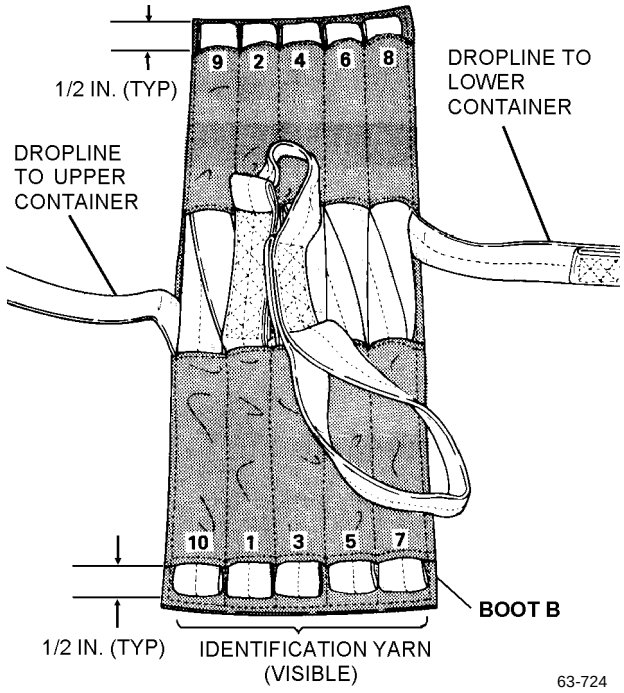
Step 5 - Para 9-23

6. Stow fifth bight in channel 5, ensuring that identification yarn is visible at protrusion.



Step 6 - Para 9-23

7. Stow remainder of dropline in boot B in accordance with numbering sequence on boot as shown, maintaining 1/2-inch protrusion. If there is insufficient line, due to allowable tolerance in length of dropline, a full stow may be impossible in channel 8.

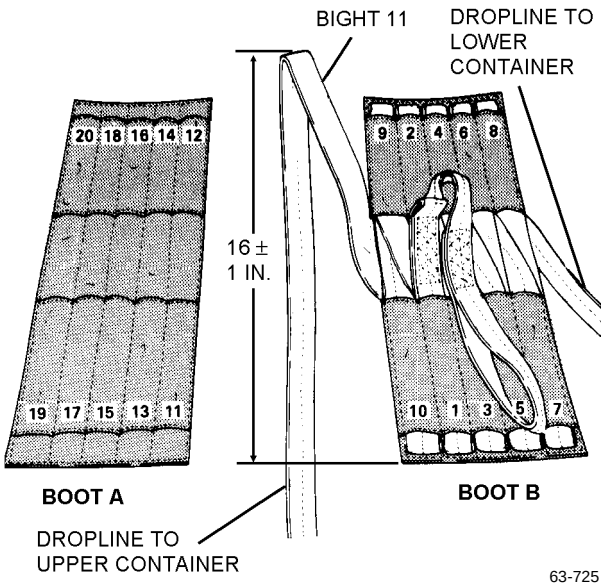


Step 7 - Para 9-23

NOTE

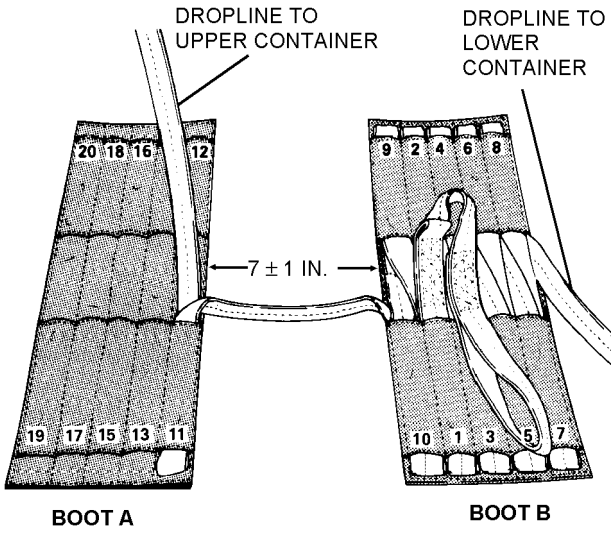
Upon the completion of step 7, identification yarn shall be visible at channels 1, 3, 5, 7 and 10, and shall not show at channels 2, 4, 6, 8 and 9.

8. Form bight 11 in dropline 16 ±1 inch from bottom of last bight (bight 10) in boot B.



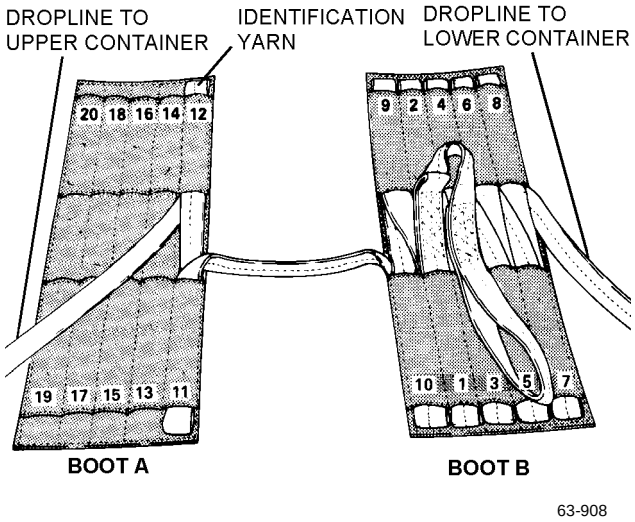
Step 8 - Para 9-23

9. Stow bight 11 (formed in step 8) in channel 11 of boot A. There shall be 7 ±1 inch of dropline between boots A and B when bight 11 is stowed. Identification yarn shall not show at protrusion.



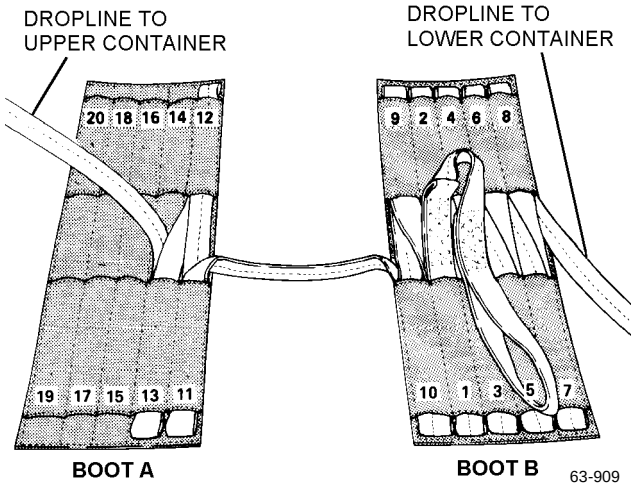
Step 9 - Para 9-23

10. Stow bight 12 in channel 12 of boot A. Identification yarn shall be visible at protrusion.



Step 10 - Para 9-23

11. Stow bight 13 in channel 13. Identification yarn shall not show at protrusion.



Step 11 - Para 9-23

12. Continue stowing bights in boot A until all line is stowed. Maintain 1/2-inch protrusion (figure 9-6).

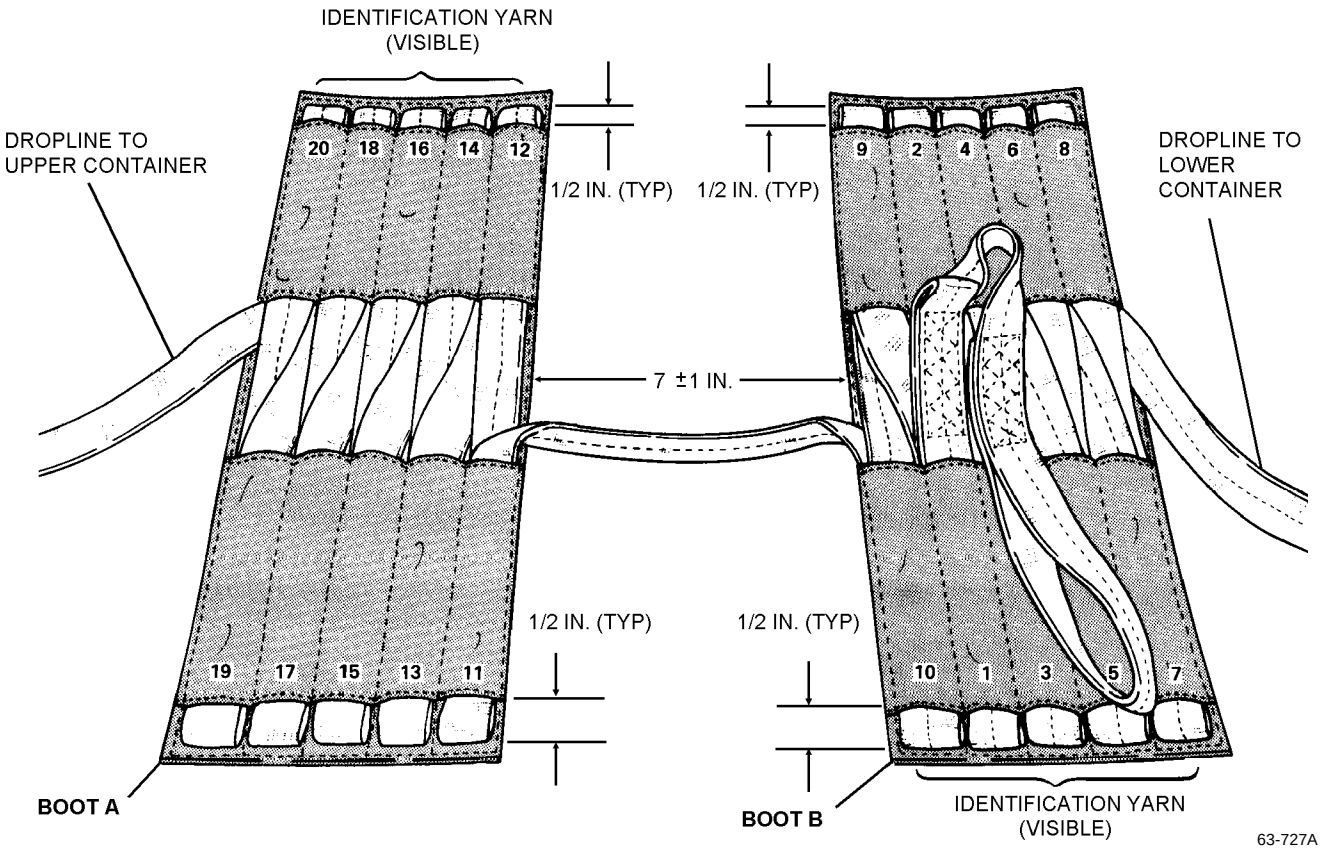


Figure 9-6. Stowage of Dropline

NOTE

Upon the completion of step 12, identification yarn shall be visible at channels 12, 14, 16, 18 and 20 and shall not show at channels 11, 13, 15, 17 and 19.

13. Ensure all stows are properly formed and that there are no twists in dropline.

9-24. LIFERAFT PREPARATION, FOLDING, RIGGING AND PACKING. To prepare, fold, rig and pack the LR-1 liferaft, proceed as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Cord, Nylon, Type III 550-pound	V-T-295 (MIL-C-5040) NIIN 00-240-2146
As Required	Thread, Nylon, Type II, Class A, Size E	V-T-295 NIIN 00-244-0609
As Required	Talc, Technical	MIL-T-50036
As Required	Thread, Nylon, Type II, Class A, Size 6	V-T-295 NIIN 00-559-5211
1	Lowering Device, Personnel	CL213D2-1 (or Fabricate IAW NAVAIR 13-1-6.5)

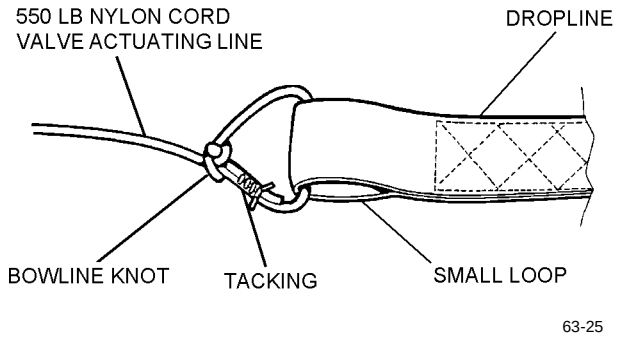
Support Equipment Required

Quantity	Description	Reference Number
1	Torque Wrench 0-150 lb-in	TE-6FUA (CAGE 55729)

1. If the valve actuating line is damaged, incorrectly installed or not installed, install new line in accordance with steps 2 and 3.

2. Cut 15-inch length of 550-pound nylon cord, Type III and sear ends.

3. Route one end through small loop on dropline and tie bowline knot. Tack with three turns of waxed, size E nylon thread, single. Tie ends with surgeon's knot followed by square knot.



Step 3 - Para 9-24

4. Lay liferaft assembly flat with inside facing upward (step A, figure 9-7).

5. Ensure all trapped air is expelled from liferaft and oral inflation valve is locked and stowed in pocket prior to folding.

6. Lightly dust entire liferaft assembly with talc.

7. Secure sea anchor line in 3-inch bights, fold and stow in pocket (step B, figure 9-7).

8. Roll and secure weathershield (step C, figure 9-7).

9. Fold liferaft.

NOTE

This taper-type folding process is necessary so that part of liferaft fits inside the U shaped oxygen cylinder.

a. Fold stern of liferaft over at a slight angle so that maximum width of fold is approximately 6 inches (step D, figure 9-7).

b. Fold liferaft again in same direction as step D, to obtain a fold 15 inches at long edge and 10 inches at short edge (step E, figure 9-7).

c. Fold bow of raft over at slight angle so that maximum width of fold is approximately 8 inches (step F, figure 9-7).

d. Fold raft again in same direction as previous fold to obtain 15 inches at long edge and 10 inches at short edge (step G, figure 9-7).

e. Fold box portion of raft over on top of previous folds. Maximum width of folded raft shall not exceed width of RSSK-8A/8A-1 raft cover. Adjust folds as necessary (step H, figure 9-7).

10. Turn folded liferaft over. Place liferaft assembly forward of lower container with carbon dioxide cylinder positioned toward lower container and facing up. Inflation valve assembly shall face release handle side of survival kit.

WARNING

Gas under pressure. Do not loosen or attempt to remove inflation valve assembly from carbon dioxide cylinder.

11. Disconnect inflation valve from raft. Do not remove cylinder from stowage pocket. Retain anti-chafing disc on inlet check valve.

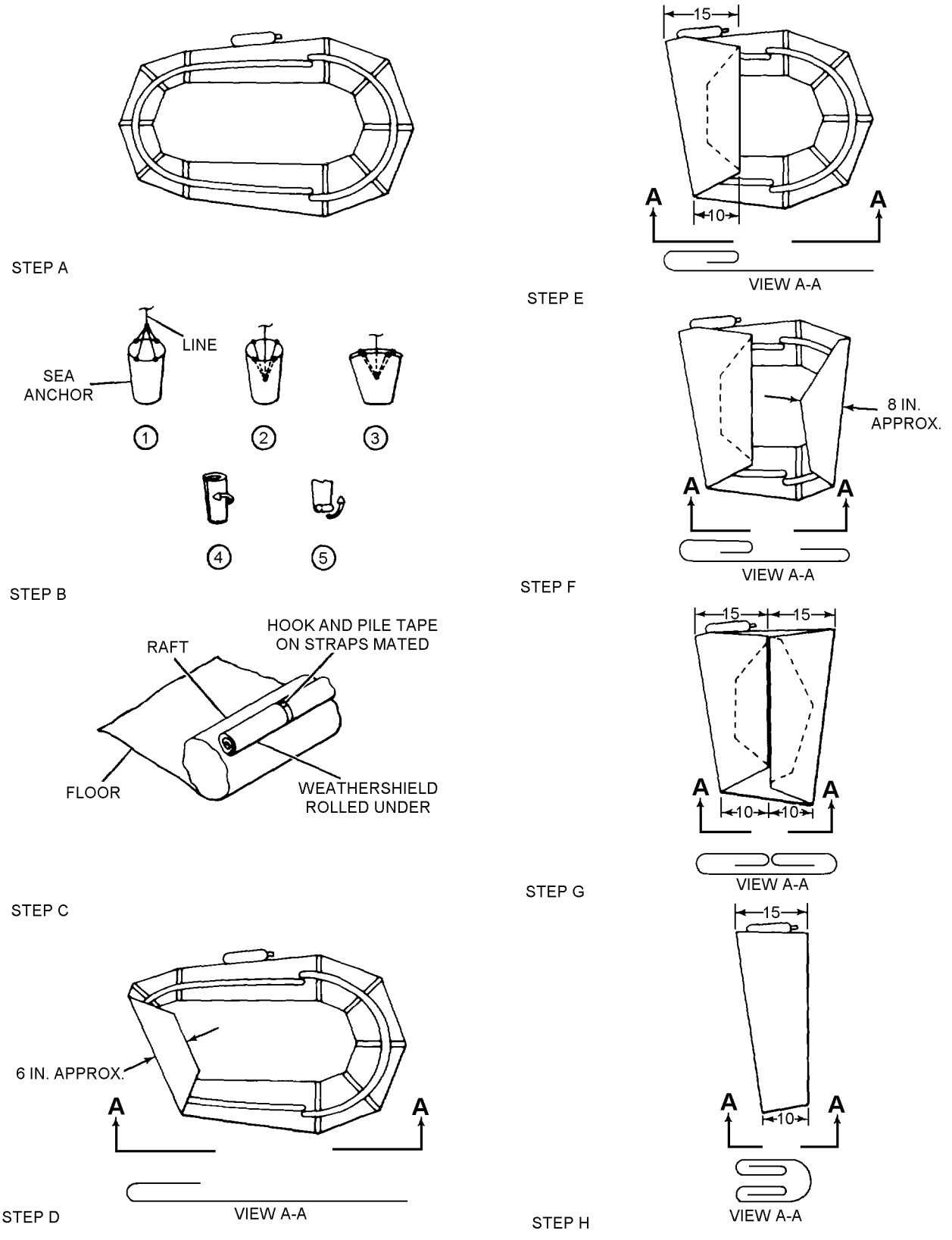
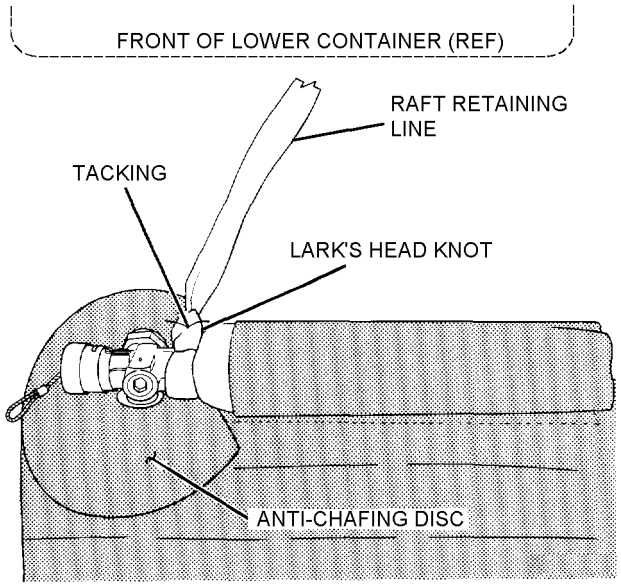


Figure 9-7. Folding Liferaft

12. Attach retaining line to cylinder with lark's head knot. Pull knot tight and tack with two turns of waxed nylon thread, size 6, single. Tie ends with surgeon's knot followed by square knot.



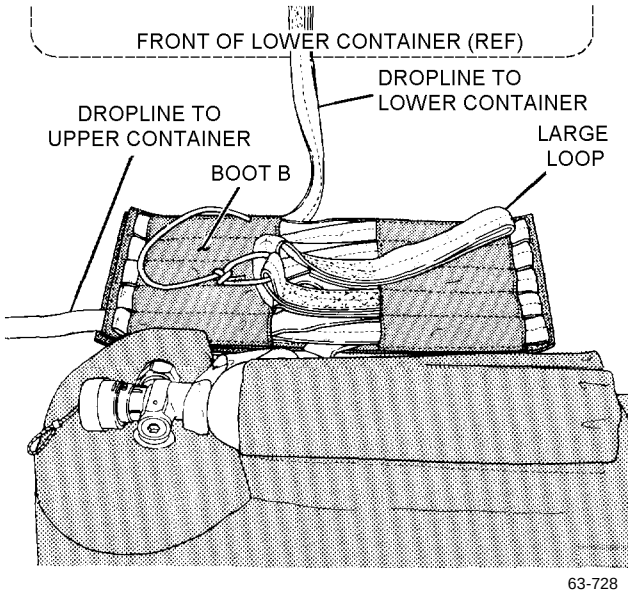
Step 12 - Para 9-24

13. Accordion fold remainder of retaining line and stow in raft retaining line pocket. Close pocket closure tab and secure hook-and-pile tape.

NOTE

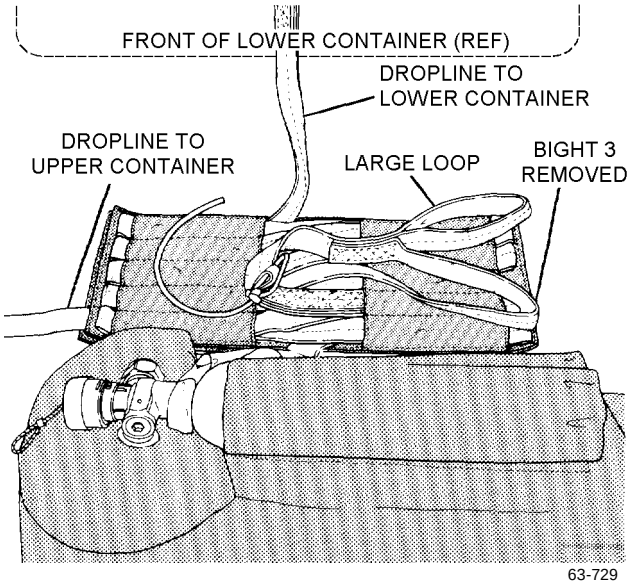
When repositioning boots, it may be necessary to move upper container. Make adjustments as necessary.

14. Position boot B on top of boot A and place boots between raft and lower container with large loop of dropline facing to right.



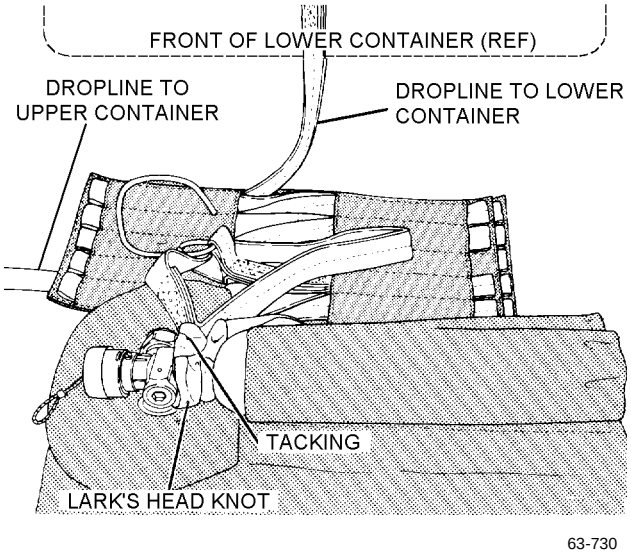
Step 14 - Para 9-24

15. Remove bight from channel 3, boot B.



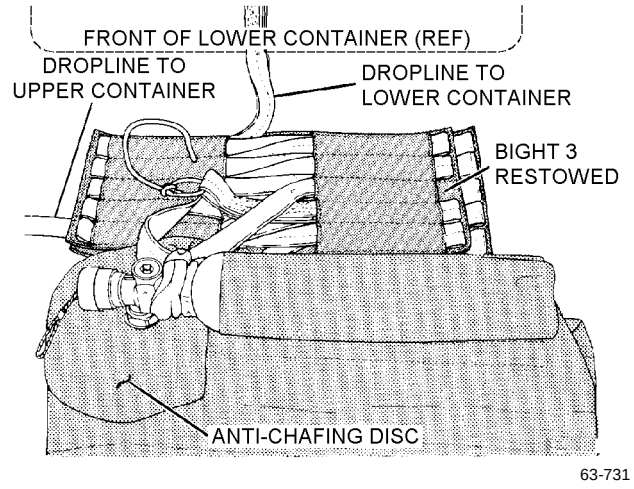
Step 15 - Para 9-24

16. Attach large loop of dropline around neck of cylinder with a lark's head knot. Pull knot tight and tack with two turns of waxed nylon thread, size 6, single. Tie ends with a surgeon's knot followed by square knot.



Step 16 - Para 9-24

17. Ensure CO_2 cylinder anti-chafing disc is installed. Attach inflation valve to liferaft inlet valve and tighten coupling nut to a torque value of 80 to 90 in-lbs. Stow bight removed from channel 3 of boot B. Bight will not extend full length of channel.

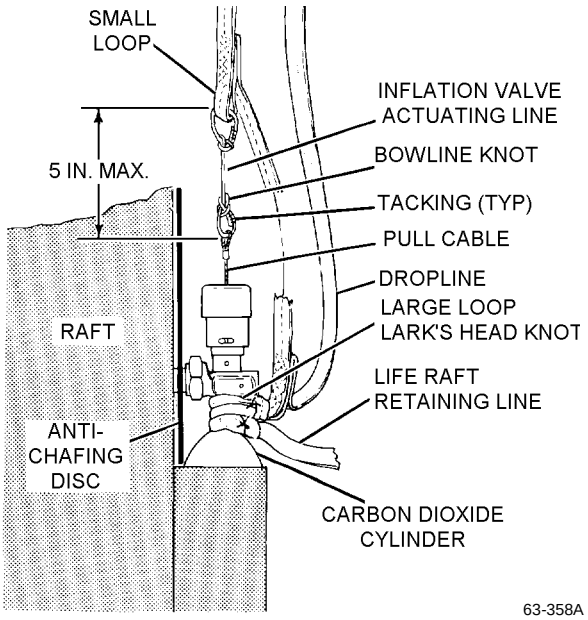


Step 17 - Para 9-24

WARNING

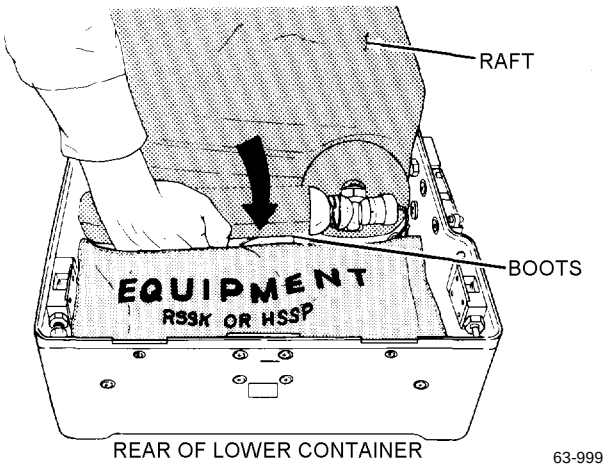
Final dimension of valve actuating line is critical. Finished length shall not exceed 5 inches.

18. Pass actuating line through loop in end of pull-cable. Tie a loop using bowline knot. Tack with three turns of waxed size E nylon thread, single. Tie ends with surgeon's knot followed by square knot. Finished length shall not exceed 5 inches.



Step 18 - Para 9-24

19. Place boots in forward section of lower container and rotate CO_2 cylinder away from packer so that cylinder rests on top of boots in lower container.

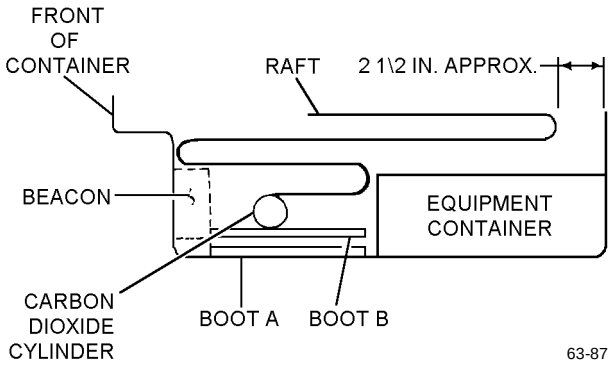


Step 19 - Para 9-24

NOTE

Personnel Lowering Device (PLD) is intended for use during survival situations in heavy foliage or jungle areas, and may be installed at discretion of area/type commander. If PLD is used, proceed to step 21.

20. Fold and stow liferaft in lower container assembly. Position last fold approximately 2 1/2 inches from rear of lower container, as shown.

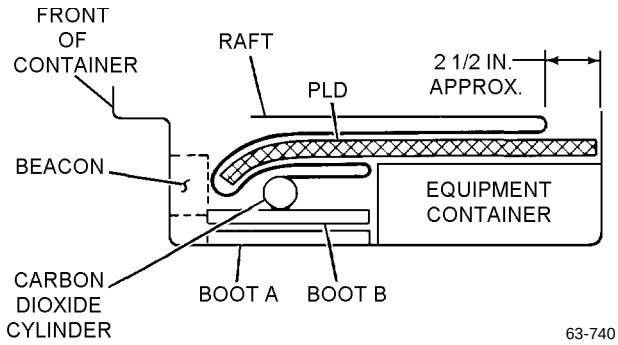


Step 20 - Para 9-24

NOTE

If PLD is used, SRU-31/P packets must be stowed on aviator; optional survival items shall be removed from equipment container (table 9-4).

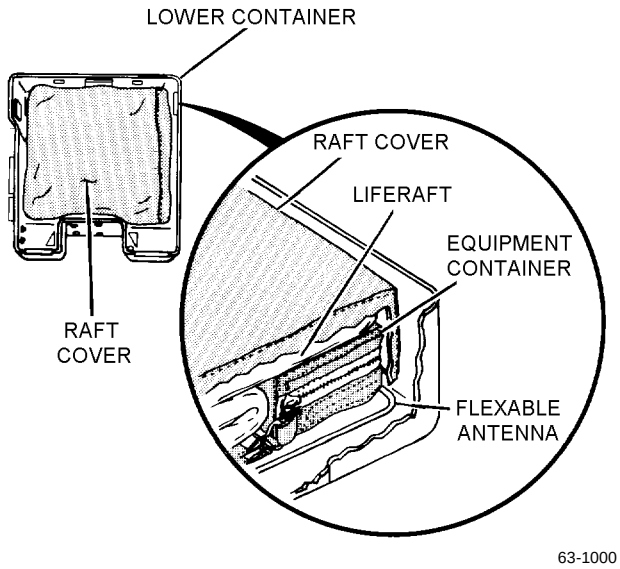
21. Fold and stow liferaft and position PLD in lower container assembly. Securely tie PLD retrieving line to right-hand upper container footman bracket with bowline and overhand knot. Ensure metal snaps are wrapped in chafing cloth. Ensure last fold is approximately 2 1/2 inches from rear of lower container, as shown.



Step 21 - Para 9-24

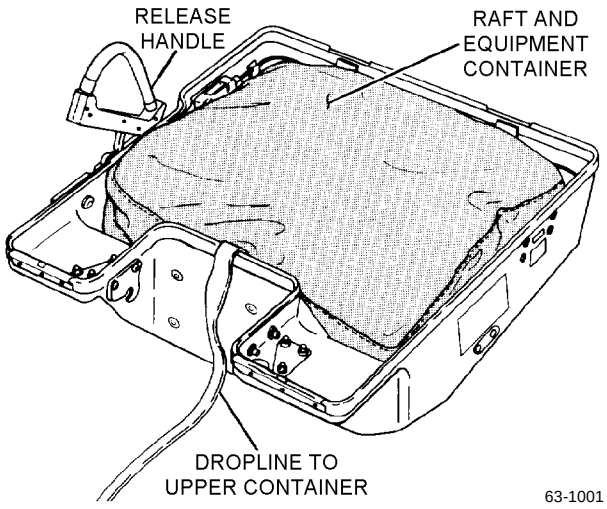
22. Place liferaft cover over liferaft and equipment container and tuck cover around liferaft using fid to push edges of cover down. Ensure that lid locks are free from obstruction and that liferaft does not protrude beyond edges of container.

23. Ensure flexible antenna is routed around periphery of lower container.



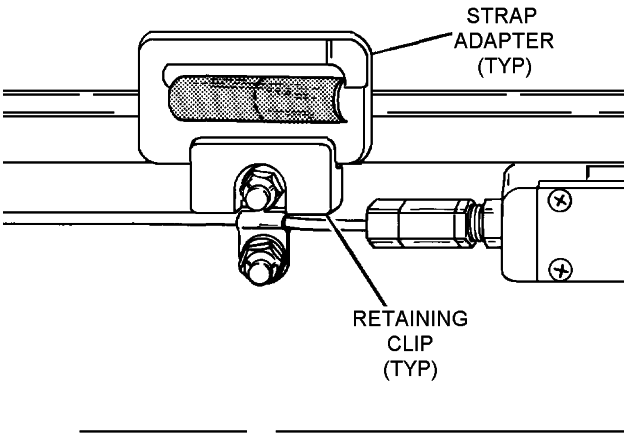
Step 23 - Para 9-24

24. Route excess dropline out forward center of lower container.

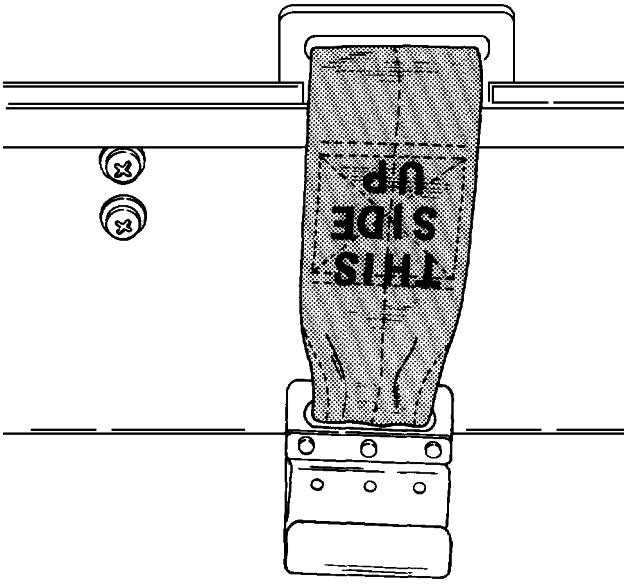


Step 24 - Para 9-24

25. Install parachute retention straps by inserting strap adapter into each retaining clip on rear wall of lower kit container. Pass webbing through slots in rear wall of kit.



INSIDE KIT (AFTER ACC 377)



OUTSIDE KIT (AFTER ACC 377)

63-1019

Step 25 - Para 9-24

9-25. CLOSING CONTAINER. To close the container, proceed as follows:

1. Place upper container on top of lower container.

2. Engage hinges on front of containers.

3. While closing container, lead emergency oxygen actuating lanyard through hole in right side of left thigh support. Ensure lanyard is not trapped or binding when routed through the lower container assembly.

4. Ensure lock engagement is made by checking slots on lower container.

5. When container is closed, insert release handle into actuator assembly. Ensure handle is fully seated and locked.

6. Examine extruded metal lip around container. All locks shall be engaged and seam undistorted. If containers are not properly secured, release handle and repeat steps 2 through 5.

7. Ensure inspection hole plug is in place.

8. Charge oxygen system in accordance with paragraph 9-42.

9. Perform release handle pull test (paragraph 9-26).

NOTE

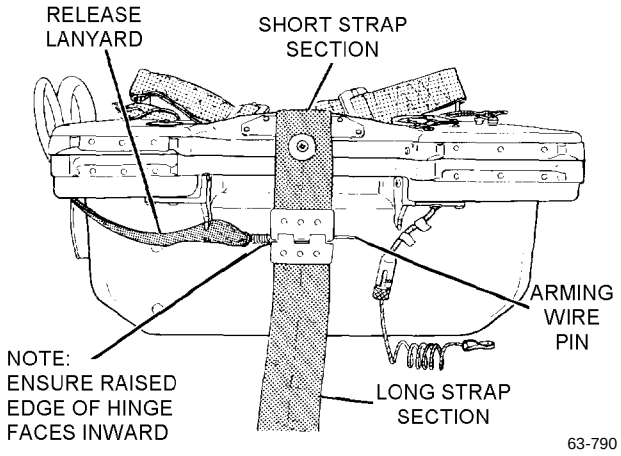
Steps 10 through 16 apply to RSSK-8 survival kits before incorporation of ACC 377. If ACC 377 has been incorporated, proceed to step 17 and continue closing procedure.

10. (BEFORE ACC 377) Pass arming wire pin of release lanyard down through bracket on outside edge of right thigh support. Ensure release lanyard grip is fully seated in bracket.

NOTE

Before inserting arming wire pin, lubricate pin with a light coating of KRYTOX 240AC (CAGE 73925).

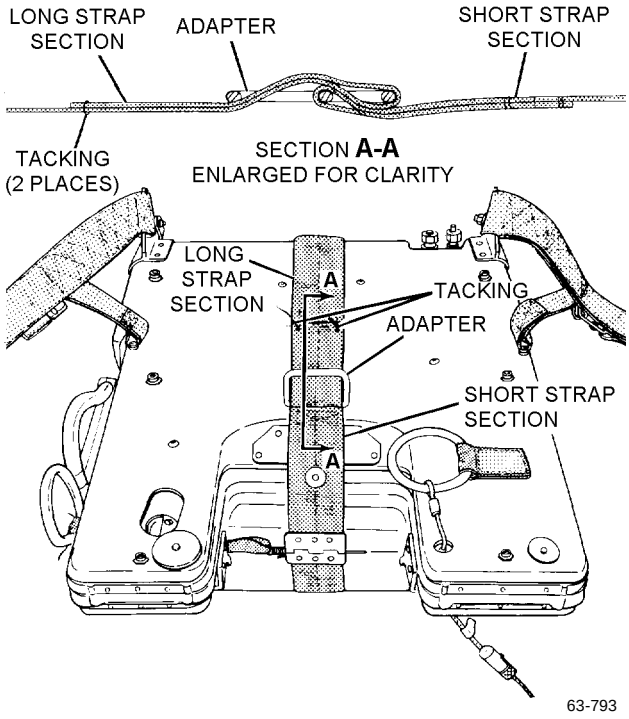
11. (BEFORE ACC 377) Mate hinge halves of closure strap with arming wire pin inserted from right to left through hinge. Ensure raised center portion of hinge is positioned against kit.



Step 11 - Para 9-25

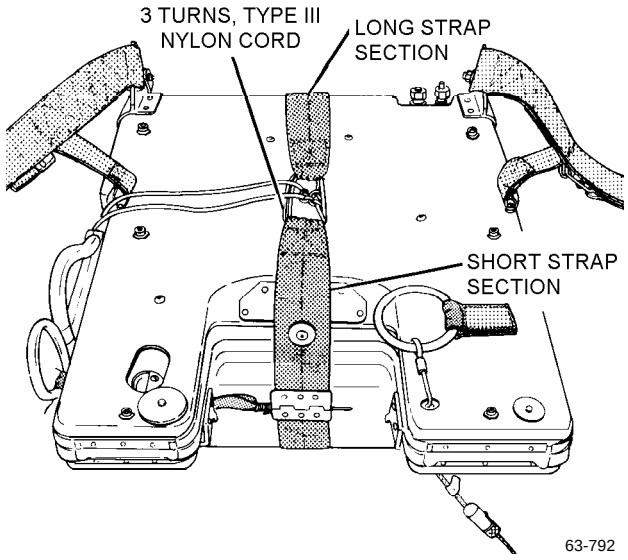
12. (BEFORE ACC 377) Route free end of long strap section down between kit thigh supports, along bottom of kit and up to kit upper container.

13. (BEFORE ACC 377) (Closure strap with adapter) Reeve free end of long strap section through the adapter on short strap section. Remove all slack in webbing strap. Fold over free end of long strap section and safety-tack with two turns of nylon thread, size 6, single, at both sides of webbing.



Step 13 - Para 9-25

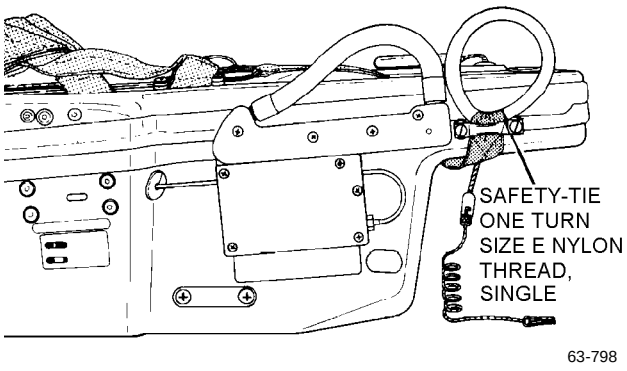
14. (BEFORE ACC 377) (Alternate-closure strap without adapter) Join two loops of closure strap with three turns of Type III nylon cord (MIL-C-5040), single. Pull tight to remove slack in closure straps and tie with a surgeon's knot and an overhand knot.



Step 14 - Para 9-25

15. (BEFORE ACC 377) Install Fhanstock clip on left end of arming wire pin. Position clip with flat surface against RSSK and open end of clip facing up. If clip is not available, safety-tie pin with one turn of size E nylon thread (V-T-295), single. Pass thread through pin eyelet and between hinge halves. Tie with surgeon's knot followed by square knot.

16. (BEFORE ACC 377) Ensure closure strap grip handle is installed upright in bracket and is fully seated. Safety-tie handle to bracket with one turn of size E nylon thread (V-T-295), single, to ensure perpendicular positioning.



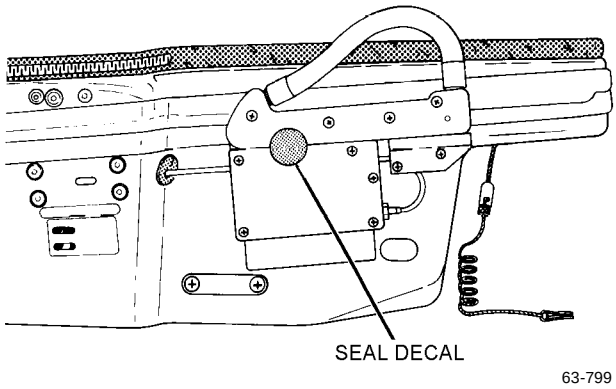
Step 16 - Para 9-25

17. Ensure that manual emergency oxygen handle is properly secured so that ring portion protrudes in open space between thigh supports and is readily accessible, after cushion installation.

18. Attach cushion to upper container.

19. Ensure oxygen gage shows and system indicates fully charged.

20. Apply seal decal (12 ND NARFA 78-A2) on RSSK seam where yellow release handle assembly adjoins bare metal lock mechanism. Before application, clean area thoroughly ensuring it is free of adhesive. Seal decal shall be applied whenever RSSK is closed.



Step 20 - Para 9-25

21. Make necessary entries on appropriate form in accordance with OPNAVINST 4790.2 Series.

9-26. Release Handle Pull Test. To perform a release handle pull test, proceed as follows:

Support Equipment Required

Quantity	Description	Reference Number
1	Push/Pull Gage, 0 to 50 Pounds	DPP-50 (CAGE 11710)

1. Apply steady upward pull and note force required to unlock latches. Force required to unlock latches in first 1/2 to 5/8 inch of travel, measured at geometric centerline of actuator link, shall be 10 to 30 pounds. Handle shall pull free of engagement link. If failure occurs, refer to paragraph 9-70.

2. Close container after pull test.

9-27. (A-4/TA-4 A/C) COCKPIT ROUTING AND INSTALLATION OF EMERGENCY RADIO BEACON LANYARD. To rig emergency radio beacon for automatic actuation, after installation in survival kit, proceed as follows:

Materials Required

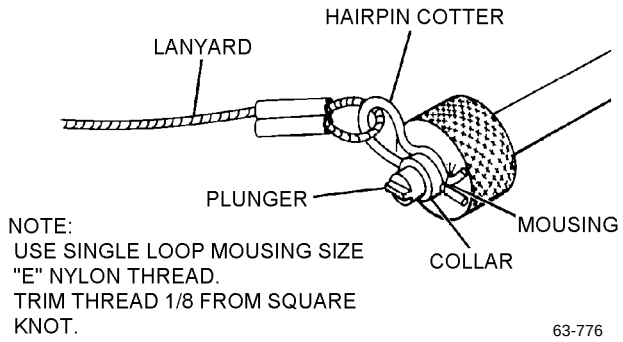
Quantity	Description	Reference Number
1	Lanyard, Actuation (A-4/TA-4 Aircraft)	CL204C4-6 (CAGE 80206)
As Required	Thread, Nylon, Size E, Type II Class A	V-T-295 NIIN 00-244-0609

CAUTION

Do not release indicator plunger. Hold in depressed position and maintain pressure until hairpin cotter is replaced.

1. Depress indicator plunger and remove hairpin cotter.

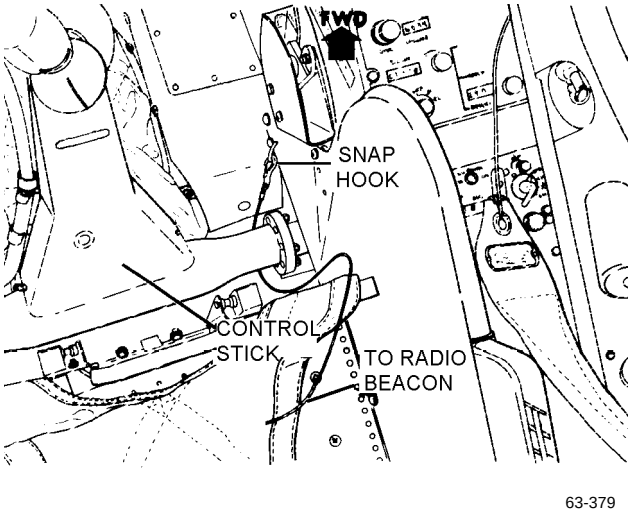
2. While maintaining pressure on plunger, secure plunger in its depressed position using hairpin cotter attached to beacon automatic actuation lanyard. Pass cotter through aligned holes of indicator plunger and collar from which temporary hairpin cotter was removed. Safety-tie open end of hairpin cotter by applying single-loop mousing. Use size E nylon thread and secure mousing loop with square knot. Cut off excess length of thread approximately 1/8 inch from knot.



Step 2 - Para 9-27

3. Remove existing screw on starboard side of cockpit and install D-ring and plate with screw.

4. Pass snaphook on actuating lanyard under aircraft control stick and snap to D-ring.



Step 4 - Para 9-27

5. Deleted.

6. Deleted.

7. Verify proper installation of kit into seat, and correct routing and connection of automatic actuating lanyard assembly.

9-28. (S-3 A/C) COCKPIT ROUTING AND INSTALLATION OF EMERGENCY RADIO BEACON LANYARD. To rig emergency radio beacon for automatic actuation after installation in survival kit, proceed as follows:

Materials Required

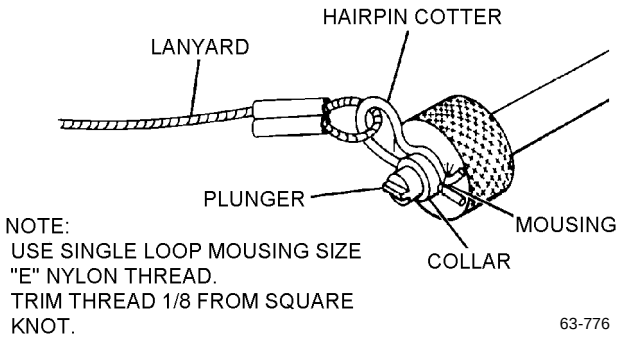
Quantity	Description	Reference Number
2	Lanyard, Actuation (Pilot, Copilot)	CL204C4-5 (CAGE 80206)
2	Lanyard, Actuation (TACCO, SENSO)	CL204C4-6 (CAGE 80206)
As Required	Thread, Nylon, Size E, Type II Class A	V-T-295 NIIN 00-244-0609

CAUTION

Do not release indicator plunger. Hold in depressed position and maintain pressure until hairpin cotter is replaced.

1. Depress indicator plunger and remove hairpin cotter.

2. While maintaining pressure on plunger, secure plunger in its depressed position using hairpin cotter attached to beacon automatic actuation lanyard. Pass cotter through aligned holes of indicator plunger and collar from which temporary hairpin cotter was removed. Safety-tie open end of hairpin cotter by applying single-loop mousing. Use size E nylon thread and secure mousing loop with square knot. Cut off excess length of thread approximately 1/8 inch from knot.



Step 2 - Para 9-28

NOTE

The following detailed procedures for routing of emergency radio beacon lanyard are divided into three general areas: pilot seat, copilot seat, and TACCO and SENSO seats.

3. Route emergency radio beacon lanyard for pilot's seat as follows:

a. Remove existing screw from vertical section of cockpit deck just forward of auxiliary power unit pressure gage.

b. Position D-ring and plate over screw hole; secure with screw.

NOTE

Ensure that coiled section of lanyard is outside seat bucket.

c. Connect lanyard (P/N CL204C4-5) snaphook to D-ring.

4. Route emergency radio beacon lanyard for copilot's seat as follows:

a. Remove existing screw from vertical section forward of copilot's seat.

b. Position D-ring and plate over screw hole and secure with screw.

NOTE

Ensure that coiled section of lanyard is outside seat bucket.

c. Connect lanyard (P/N CL204C4-5) snaphook to D-ring.

5. Route emergency radio beacon lanyard for TACCO's or SENSO's seat as follows:

a. Using nut and bolt presently fastening bailout oxygen lanyard clevis to floor bracket underneath seat, secure D-ring and plate to floor bracket.

NOTE

Ensure that coiled section of lanyard is outside seat bucket.

b. Connect lanyard (P/N CL204C4-6) snaphook to D-ring.

Section 9-4. Turnaround/Daily/Preflight/Postflight/ Transfer/Special/Conditional Inspection

9-29. GENERAL.

9-30. The Turnaround/Daily/Preflight/Postflight or Transfer Inspections consist of a visual-type inspection performed in conjunction with the aircraft inspection requirements for the aircraft in which the survival kit is installed. These inspections shall be performed by line personnel (plane captain) or delegated aircrewmen who have been instructed and found qualified by the Aviator's Equipment Branch.

9-31. The Conditional Inspection is an unscheduled inspection required as the result of a specific situation or set of conditions, e.g., hard-landing inspections or any inspection directed by higher authority that is not ordered in a technical directive.

9-32. The Special (7/14 day, etc.) Inspection shall be performed on inservice survival kits installed in aircraft or in ready room issue. This inspection shall be performed at the Organizational Level of maintenance by personnel assigned to the Aviator's Equipment Branch. Make necessary entries on appropriate form in accordance with OPNAVINST 4790.2 Series.

9-33. TURNAROUND/DAILY/PREFLIGHT/POSTFLIGHT/TRANSFER, OR SPECIAL INSPECTION PROCEDURES. These inspections consist of visual inspections of the following:

1. Cushion for secure attachment, rips, tears, and loose or frayed stitching.

2. (BEFORE ACC 377) Closure strap release lanyard safety ties and Fhanstock clip for presence and proper installation.

3. (BEFORE ACC 377) Closure strap hinge and arming wire pin for corrosion and damage.

4. Release handle for proper seating and corrosion.

5. Oxygen gage for FULL indication.

6. Emergency oxygen lanyard coupling assembly for spring security.

7. Emergency oxygen lanyard for proper installation and corrosion.

8. Manual emergency oxygen release for condition and security of attachment.

9. Container assembly for cracks, breaks, and other obvious damage.

10. Harness assemblies for loose or frayed webbing, stitching, and cracked or broken hardware.

11. Lapbelt release assembly for loose or missing screws and corrosion.

12. Beacon actuator indicator for bent shaft, hairpin cotter for elongation, corrosion, and proper mousing.

13. Secure attachment of beacon automatic actuation lanyard (if installed).

14. Seal decal for secure attachment, tears, or rips. If seal decal is damaged, RSSK must be reclosed by IMA.

15. Condition of oxygen hose and secure attachment to kit. If repair procedure has been performed on oxygen hose assembly, check external wiring for secure attachment.

16. (S-3A A/C) Secure attachment of externally mounted electrical cable assembly to oxygen hose assembly.

9-34. If discrepancies are found or suspected, Maintenance Control shall be notified.

9-35. Survival kits which do not pass inspection and cannot be repaired in the aircraft shall be removed in accordance with applicable aircraft manual and replaced with a Ready for Issue (RFI) survival kit. Non-RFI survival kits shall be forwarded to the nearest maintenance activity having repair capability for corrective action.

Section 9-5. Acceptance/Phased/SDLM/PDM Inspection

9-36. GENERAL.

9-37. An acceptance inspection shall be performed on a survival kit when it is placed into service or at the time a reporting custodian accepts a newly assigned airfcraft from any source and on return of an aircraft from SDLM/PDM or other major D-level rework. The Phased/SDLM/PDM inspection cycle of the survival kit shall be 308 days. In no case, however, shall the phased interval exceed 308 days. The battery test inspection cycle for the AN/URT-33A radio beacon is dependent on the type of battery installed. Refer to NAVAIR 16-30URT33-1 for battery test inspection cycles and requirements. For acceptance inspection purposes, verification of pyrotechnics and configuration is accomplished by visual record examination only. Disassembly beyond the daily inspection requirements of applicable publications is not required. Activities may elect to increase the depth of the inspection if equipment condition, visual external inspection, or record examination indicates such action is warranted.

9-38. VISUAL INSPECTION. This inspection shall be performed prior to the functional check of the kit. Visually check kit for the following:

1. Cushion for rips, tears, and general condition.

2. (BEFORE ACC 377) Closure strap hinge and pin for corrosion and proper operation (paragraph 9-39).

3. Release handle for wear, corrosion and damage.

4. Manual emergency oxygen release handle (green ring) for damage and security of attachment.

5. Upper and lower container for cracks, corrosion, and security of hardware.

6. Webbing for loose or frayed stitching and security of attachment.

7. Lapbelt release assembly for loose or missing screws and corrosion.

8. Swaged balls on cable assemblies for security of attachment. Refer to paragraph 9-40 for the swaged ball pull test which is performed during Acceptance Inspection only.

9-39. (BEFORE ACC 377) Closure Strap Arming Wire Pin Pull Test. To check the force needed to pull the arming wire pin from the hinge, proceed as follows:

Materials Required

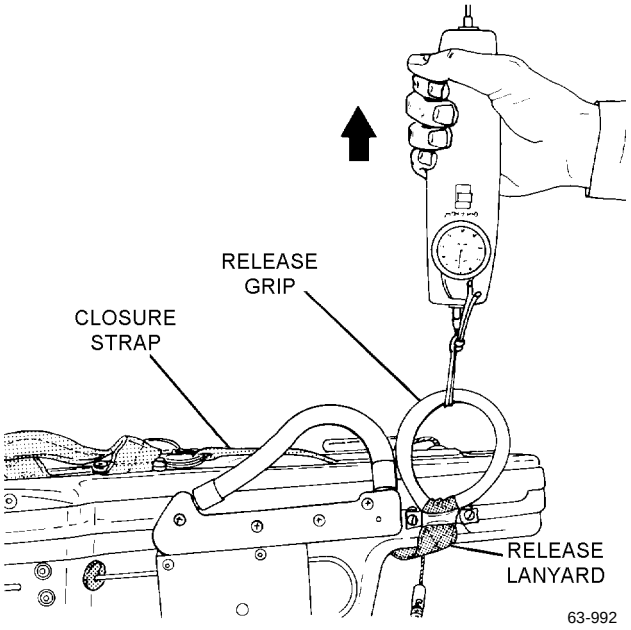
Quantity	Description	Reference Number
As Required	Krytox 240AC, Type III	MIL-G-27617 NIIN 00-961-8995

Support Equipment Required

Quantity	Description	Reference Number
1	Dial Push/Pull Gage, 0 to 50 Pounds	DPP-50 (CAGE 11710)

1. Attach push/pull gage to closure strap release grip.

2. Measure force required to pull arming wire pin free from hinge. Force required shall be 10 to 30 pounds.



Step 2 - Para 9-39

3. Visually inspect arming wire pin, hinge, and Fhanstock clip (if installed) for evidence of corrosion or damage.

4. Visually inspect closure strap release lanyard and closure strap webbing for evidence of fraying or damage. Replace all frayed or damaged items.

5. Lubricate arming wire pin with light coating of Krytox 240AC.

9-40. Swaged Ball Pull Test (Acceptance Inspection Only). To check the security of the swaged ball attachments on cable assemblies, perform pull test as follows:

Materials Required

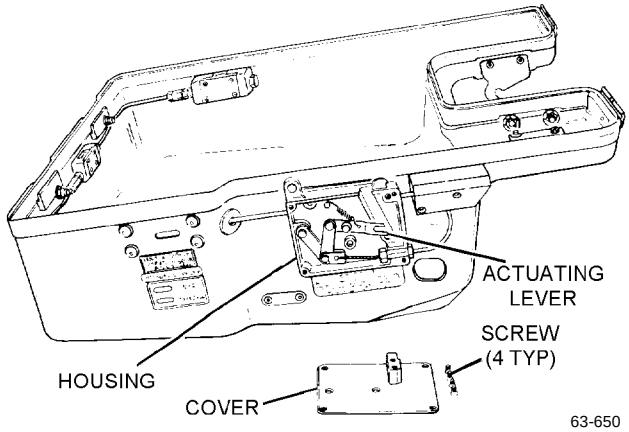
Quantity	Description	Reference Number
As Required	Nylon Cord, Type III, 550-Pound	MIL-C-5040 NIIN 00-240-2146

Support Equipment Required

Quantity	Description	Reference Number
1	Dial Push/Pull Gage, 0 to 100 Pounds	DPP-100 (CAGE 11710)

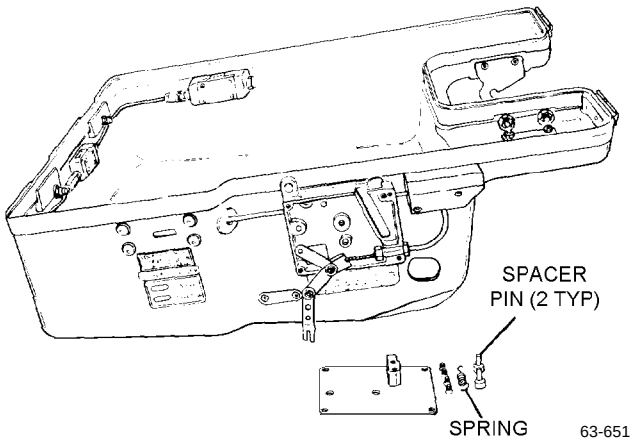
1. Remove four screws and cover from assembly.

2. Push actuating lever down.



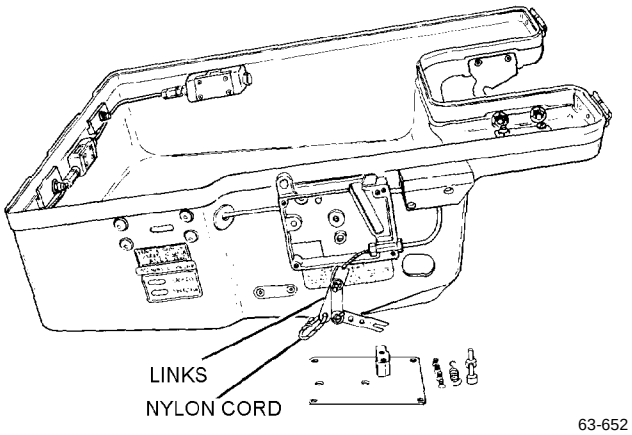
Step 2 - Para 9-40

3. Remove spring and two spacer pins. Lift actuating lever assembly with cable inserted in clevis from housing.



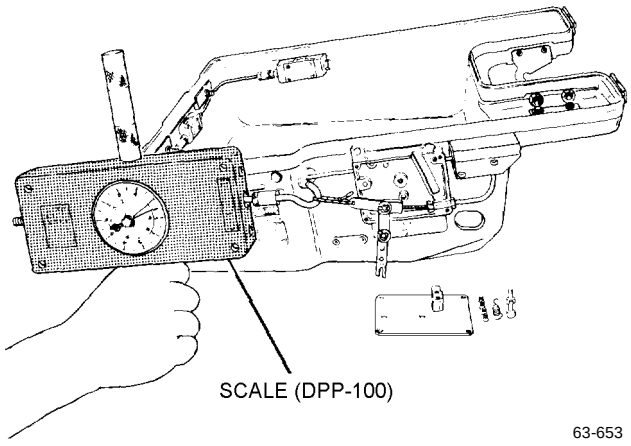
Step 3 - Para 9-40

4. Thread approximately 5 inches of nylon cord MIL-C-5040 through links and tie both ends together.



Step 4 - Para 9-40

5. Insert hook of push/pull gage into loop of nylon cord.

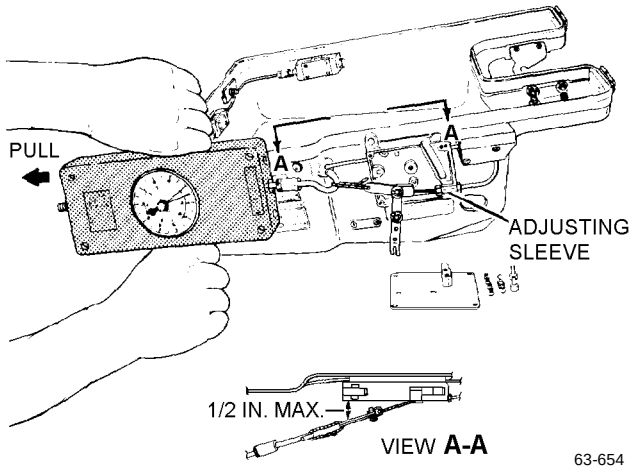


Step 5 - Para 9-40

CAUTION

Ensure adjusting sleeve does not move from housing while pull force is exerted.

6. Pull push/pull gage toward aft direction of kit and in normal direction of cable operation. Ensure links and clevis are not pulled from housing more than 1/2 inch. Swaged balls shall withstand 100 pounds pull force.



Step 6 - Para 9-40

7. If assembly fails to meet specified pull force, slide ball off cable and swage new ball in same location.

8. Assemble parts and install cover on housing.

9-41. FUNCTIONAL CHECK. The functional check shall be performed anytime a kit is placed in service, after any adjustment procedures, or when equipment condition, visual external inspection, or record examination indicates such action is warranted to determine the condition of the kit. To perform a functional check proceed as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Leak Detection Compound, Type I	MIL-L-25567
As Required	Lint-free Cloth	MIL-C-85043 NIIN 00-044-9281

Support Equipment Required

Quantity	Description	Reference Number
1	Test Stand	59A120 (CAGE 02551) or 31TB1995-1 (CAGE 99251)
1	Dial Push/Pull Gage, 0 to 50 Pounds	DPP-50 (CAGE 11710)
1	Toggle Reset Tool	Fabricate IAW paragraph 9-76

WARNING

Before use, inspect leak detection compound. Compound which is not clear and free from suspended material/sediment is considered contaminated and shall be disposed of.

Compound exhibiting peculiar odors, such as acetone or alcohol, is considered contaminated and shall be disposed of.

CAUTION

Discontinue functional test if seat kit fails to pass any steps of test procedures. Repair malfunction before continuing procedures or damage to seat kit may result. After repair, the entire test procedure shall be performed.

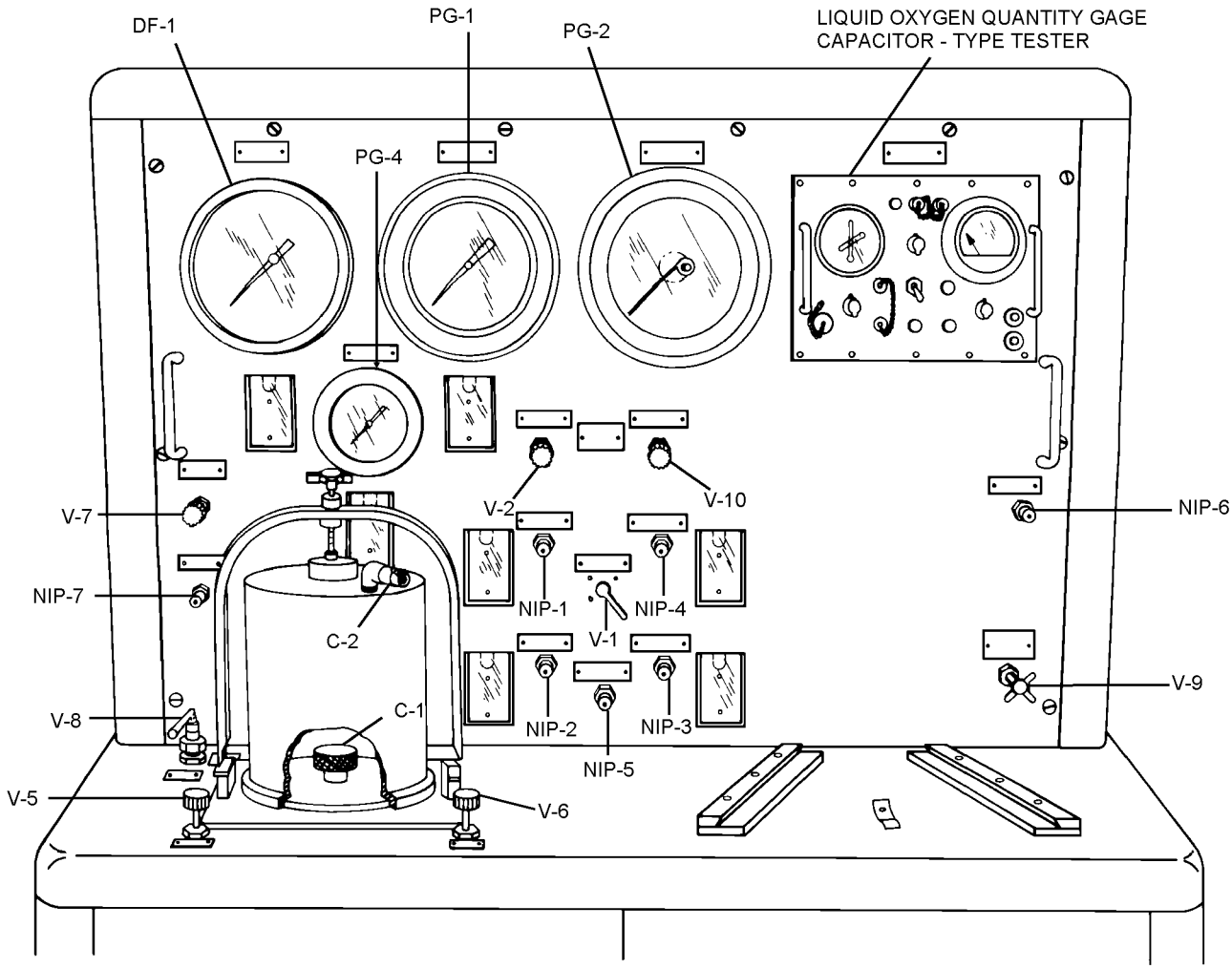
NOTE

Performance of test stand is dependent upon skill of operator. It is imperative that operator be thoroughly familiar with instruments, controls, and connections that comprise systems incorporated in test stand. See NAVAIR 17-15BC-20 and NAVAIR 13-1-6.4-4 to familiarize yourself with 59A120 or 31TB1995 series liquid oxygen converter test stands.

Emergency oxygen cylinder pressures used in this functional test are derived under ideal shop conditions 70°F (21°C). Variances in ambient air temperatures directly affect charging pressures. Refer to table 9-7 for details.

Ensure that emergency oxygen cylinder is filled to 1800 to 2000 psi.

1. Remove bell jar and connect oxygen outlet hose of kit to fitting (C-1) and ensure that valve (V-2) is open and all other test stand valves are closed (figure 9-8).



C-1	BELL JAR BOTTOM COUPLING	PG-2	FLOWMETER INDICATOR GAGE
C-2	BELL JAR TOP COUPLING	PG-4	0 – 15 PSIG LOW PRESSURE TEST GAGE
DF-1	0 – 100" H_2O DIFFERENTIAL PRESSURE GAGE	V-1	FLOWMETER SELECTOR GAGE
NIP-1	0 – 0.25 LPM FLOWMETER CONNECTION	V-2	TEST PRESSURE GAGE TO BELL JAR VALVE
NIP-2	0 – 1 LPM FLOWMETER CONNECTION	V-5	SYSTEM BLEED VALVE
NIP-3	0 – 50 LPM FLOWMETER CONNECTION	V-6	OXYGEN SUPPLY VALVE
NIP-4	0 – 150 LPM FLOWMETER CONNECTION	V-7	DIFFERENTIAL PRESSURE BLEED VALVE
NIP-5	CONVERTER SUPPLY OUTLET CONNECTION	V-8	DIFFERENTIAL PRESSURE SHUT-OFF VALVE
NIP-6	SUPPLY TO CONVERTER CONNECTION	V-9	CONVERTER SUPPLY FLOW CONTROL VALVE
NIP-7	DIFFERENTIAL PRESSURE GAGE CONNECTION	V-10	TEST PRESSURE GAGE BUILD-UP AND FLOW VALVE
PG-1	0 – 160 PSIG TEST PRESSURE GAGE		

63-578

Figure 9-8. Test Stand Model 59A120

2. Attach push/pull gage to manual emergency oxygen release handle.

CAUTION

Ensure manual oxygen release is separating type before attempting to disengage.

3. Measure force required to disengage manual oxygen release. Force required shall be 10 to 30 pounds; emergency oxygen system shall actuate and indicate 45 to 80 psi on gage (PG-1) on test stand.

4. Reinstall manual oxygen release (if separating type) and reset reducer.

5. Turn on oxygen supply cylinder to test stand.

6. Slowly open valve (V-6) on test stand, and adjust pressure on gage (PG-1) to 90 psi.

7. Measure force required to disengage manual oxygen release with push/pull gage. Force required shall be 10 to 30 pounds.

NOTE

Any degree of leakage in the oxygen system requires corrective maintenance.

8. Using leak detection compound, check all pressure lines and fittings to ensure no leakage.

9. Reinstall manual oxygen release (if separating type) and reset reducer.

CAUTION

Do not increase pressure above 150 psi.

10. Using valve (V-6), increase pressure until relief valve unseats.

NOTE

Unseating can be determined by listening and observing gage (PG-1) on test stand.

11. Repeat step 10 several times to establish correct pressure. Relief valve shall unseat at 120 to 140 psi when pressure is increased, and reset at 110 psi minimum when pressure is decreased. Once reset, relief valve shall be leak tight.

NOTE

Pressure may be reduced below opening pressure of relief valve by closing valve (V-6) and opening valve (V-5).

12. Check relief valve with leak detection compound to ensure no leakage.

13. Close valve (V-6), and bleed oxygen pressure from system by opening valve (V-5). All pressure is bled when gages (PG-1) and (PG-4) indicate zero pressure.

14. Close valve (V-5).

15. Ensure valve (V-2) is opened and all other test stand valves are closed.

16. Measure force required to disengage automatic oxygen release with a scale. Force required shall be 10 to 30 pounds and emergency oxygen system shall actuate and indicate 45 to 80 psi on gage (PG-1) on test stand.

17. Reset reducer.

18. Open valve (V-5), and ensure that all other test stand valves are closed.

19. Actuate toggle on reducer to ensure positive flow through valve (V-5). Reset reducer assembly.

20. Open valve (V-8).

21. Slowly close valve (V-5) while observing gage (DF-1).

NOTE

Observe gage (DF-1) for two minutes to ensure no leakage. Any pressure rise indicates leakage in the reducer valve seat and requires corrective maintenance.

22. Close valve (V-8), open valve (V-5), and disconnect oxygen outlet hose from fitting (C-1).

23. Ensure all valves on test stand are secured.

24. Connect oxygen outlet hose to fitting (NIP-6). Ensure that valve (V-10) is open and all other test stand valves are closed.

25. Connect test stand hose to fitting (NIP-5) and fitting (NIP-4).

26. Move valve (V-1) to the (NIP-4) position.

27. Ensure that 1800 to 2000 psi is in oxygen cylinder of kit.

28. Pull manual oxygen release. Slowly open valve (V-9) to indicate 90 LPM on gage (PG-2). Oxygen pressure shall indicate 45 to 80 psi on gage (PG-1).

NOTE

When needle of cylinder pressure gage is between E and F of REFILL, pressure is approximately 250 psi.

29. Observe emergency oxygen cylinder pressure gage. Allow system to decrease to 250 psi while maintaining 90 LPM and 45 to 80 psi pressure.

30. Close valve (V-9).

31. With zero flow indicated on gage (PG-2), pressure indicated on gage (PG- 1) shall be 45 to 80 psi.

32. Reinstall manual oxygen release (if separating type) and reset reducer.

33. Bleed oxygen pressure from system by opening valves (V-5) and (V-2). All pressure is bled when gages (PG-1) and (PG-4) indicate zero pressure.

34. Disconnect kit from test stand.

35. Secure test stand.

36. All areas where leak detection compound was applied shall be wiped thoroughly clean. Dry with lint-free cloth, filtered low pressure compressed air, or low pressure nitrogen.

37. Recharge emergency oxygen cylinder to 1800 to 2000 psi. Refer to paragraph 9-42 for charging procedures.

38. Perform release handle pull test on fully packed kit in accordance with paragraph 9-26.

9-42. PURGING AND CHARGING EMERGENCY OXYGEN SYSTEM. To purge and charge the emergency oxygen system, proceed as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Leak Detection Compound, Type I	MIL-L-25567
As Required	Nitrogen, Type I, Class I, Grade B	BB-N-411
As Required	Aviator's Breathing Oxygen, Type I	MIL-O-27210

Support Equipment Required

Quantity	Description	Reference Number
1	Oxygen Purging Electric Heater	C5378 (CAGE 96787) or Equivalent
1	Shut-off Valve	—
1	Pressure Regulator	—
1	Adapter, Filling	21000T130-1 (CAGE 53655)

WARNING

Servicing of emergency oxygen system is accomplished only after removal of personnel parachute and survival kit from aircraft.

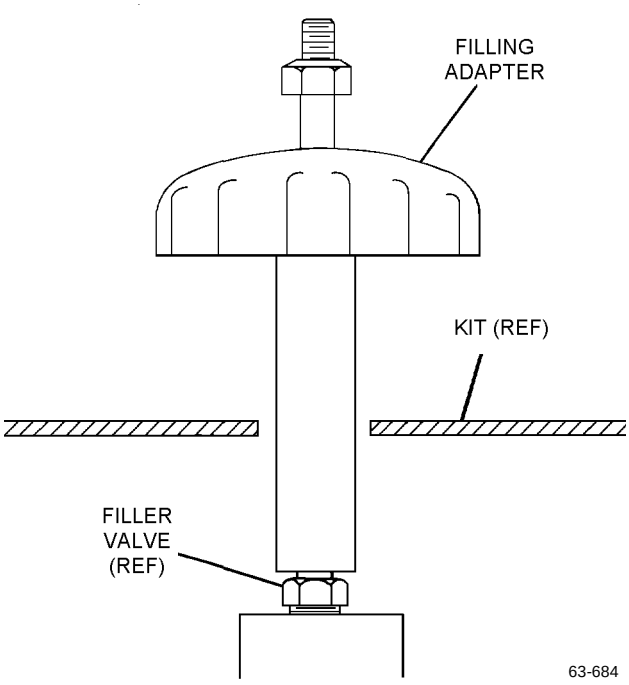
Before use, inspect leak detection compound. Compound which is not clear and free from suspended material/sediment is considered contaminated and shall be disposed of. Compound exhibiting peculiar odors, such as acetone or alcohol, is considered contaminated and shall be disposed of.

1. If survival kit assembly has not been removed from aircraft, remove personnel parachute and survival kit in accordance with applicable maintenance manual.

WARNING

If necessary to release pressure in oxygen bottle before purging/filling, pull emergency oxygen lanyard. This releases pressure through the pressure reducer. DO NOT release pressure through filler valve or adapter. Releasing high-pressure oxygen through restriction of filler valve causes heat; fire or explosion may result.

2. Remove oxygen filler valve cap and connect filling adapter to filler valve.



Step 2 - Para 9-42

NOTE

If emergency oxygen system is contaminated or cylinder has remained empty for more than 2 hours, purging is required. If emergency oxygen cylinder does not warrant purging process, proceed to step 10 for charging sequence.

3. Deplete emergency oxygen cylinder if necessary.

4. Connect nitrogen source to filling adapter, and close pressure reducer.

NOTE

If relief valve on Oxygen Purging Electric Heater will not allow 100 psi, raise pressure only to allowable limit.

5. Slowly pressurize to 100 psi with nitrogen at temperature of 110° to 130°C (230° to 266°F) using electric heater.

6. Turn off nitrogen source and deplete oxygen cylinder.

7. Repeat steps 5 and 6, twice.

8. With pressure reducer open, turn on nitrogen source and purge for 10 minutes at temperature of 110° to 130°C (230° to 266°F).

9. Turn off nitrogen source and disconnect.

10. Connect oxygen source to filling adapter with suitable pressure regulator and shut-off valve. Reset pressure reducer.

11. Slowly pressurize to 100 psi.

12. Deplete cylinder to 50 psi.

13. Ensure that minimum slack exists in actuating cables of reducer/manifold, yet enough to ensure full engagement of toggle arm.

WARNING

Observe filling stages as rapid application of oxygen pressure creates heat which may result in fire or explosion.

Allow no less than 3 minutes for each filling stage and 2 minute intervals for cooling between stages.

NOTE

If kit is to be stored, the emergency oxygen bottle shall be depleted or filled to 200 PSI (when needle on gage bisects the E on refill). For shipping, fill or deplete to 25 PSI using the gage on the oxygen refill cylinder.

14. Charge emergency oxygen system in stages in accordance with table 9-6 until pressure gage indicates correct pressure for existing ambient temperature (table 9-7).

Table 9-6. Charging Stages

Stage	PSI
1	500
2	1000
3	1500
4	1800
5	2000

Table 9-7. Ambient Air Temperature Vs Charging Pressures

Ambient Air Temperature		Charging Pressure
°F	°C	PSI
0	-18	1550-1750
10	-12	1600-1775
20	-7	1625-1800
30	-1	1675-1850
40	5	1700-1875
50	10	1725-1925
60	16	1775-1975
70	21	1800-2000
80	27	1825-2050
90	32	1875-2075
100	38	1900-2125
110	43	1925-2150
120	49	1975-2200
130	54	2000-2225

WARNING

Visually ensure that filler valve does not turn as filling adapter is removed. Serious injury could result.

15. Loosen filling adapter until all pressure is bled from high-pressure line. Remove filling adapter.

NOTE

Alternate Fill Valve P/N 9120097-27 is coreless and has a maximum leakage rate of 1 cc/hr. This will be evident by very tiny bubbles passing though the top of the valve when leak detection compound is applied level to the top rim. No leaks around the threads are acceptable. If large bubbles are evident, contact survival kit FST for disposition.

16. Apply leak test compound around filler valve, gage and reducer. Check for leaks then wipe connections clean using a lint-free cloth.

17. Replace oxygen filler valve cap on filler valve.

18. If the personnel parachute and survival kit assembly were removed in step 1, install using the applicable maintenance manual.

Section 9-6. Maintenance

9-43. GENERAL.

WARNING

Keep working area clean and free of oil, grease, and dirt. Do not attempt to perform any component removal with oxygen system pressurized.

NOTE

Unless otherwise indicated, maintenance instructions set forth in this section shall apply to both Scott and Rocket Jet survival kit assemblies.

9-44. This section contains procedures for troubleshooting, disassembly, cleaning, inspection of disassembled parts, repair or replacement of parts, reassembly, and adjustment. Disassemble only to extent required to perform task. Work shall be performed in a clean, dust and grease-free area.

9-45. TROUBLESHOOTING.

9-46. When troubles or operating malfunctions are encountered, locate probable cause and remedy using table 9-8.

9-47. DISASSEMBLY.

9-48. Disassemble the kit using the index numbers assigned to figures 9-18 through 9-35 as a reference.

NOTE

Discard all O-rings, seals, cotter pins, and teflon sealing tape removed from oxygen connections during disassembly. Discard any threaded inserts, rivets, rubber pads, seals, molding, or hook and pile fastener tape removed during disassembly of kit.

9-49. (SCOTT ONLY) REDUCER ASSEMBLY (figure 9-35). Special instructions are as follows:

Support Equipment Required

Quantity	Description	Reference Number
1	Wrench (1)	21051T89-1 (CAGE 53655)
1	Wrench (2)	26251-1-T91-1 (CAGE 53655)

1. Remove toggle arm (1) by pushing out pin (2) with 1/16-inch diameter rod.

2. Unthread retainer (10) from sleeve (14) with wrench (1); slide spring (12) and plate (13) off pin (14).

3. Using wrench (2), remove guide (23), seat (24), packing (25), stem (26), and spring (27) from body (32).

9-50. CLEANING.

9-51. To clean the disassembled oxygen and non-oxygen components of the kit (except for cushions and fabric components) refer to NAVAIR 13-1-6.4-1.

Table 9-8. Troubleshooting

Trouble	Probable Cause	Remedy
Low or zero pressure indication on oxygen gage.	Oxygen tube empty.	Recharge oxygen system per paragraph 9-42.
	Defective pressure gage (42, figure 9-22; 35, figure 9-23; 93, figure 9-33).	Replace gage.
	Oxygen system components are leaking.	Tighten connections or replace defective parts as required.
No oxygen flow at kit-to-man hose from aircraft system (emergency oxygen system not actuated).	Defective check valve (31, figure 9-21; 30, figure 9-33).	Replace check valve.
Oxygen pressure at kit-to-man hose not within tolerance of 45 to 80 psi when emergency oxygen system actuated during test.	Defective oxygen reducer/ manifold (1 through 34, figure 9-22; 1 through 27, figure 9-23; 85 and 86, figure 9-33)	Replace oxygen reducer/ manifold.
	Oxygen reducer/manifold incorrectly adjusted.	Adjust and test reducer/manifold per paragraph 9-68
Relief Valve Leakage.	Defective valve.	Disassemble, remove and replace relief valve.
Relief Valve does not operate within tolerance of 120 to 140 psi when simulated aircraft back pressure is applied during test.	Defective or out of adjustment relief valve (34, figure 9-21; 34, figure 9-33).	Adjust relief valve in accordance with paragraph 9-71. If specification cannot be met replace relief valve.
Oxygen flow exists at ship-to-kit hose when emergency oxygen system is actuated during test.	Defective check valve (35, figure 9-21; 30, figure 9-33).	Replace check valve.
No oxygen flow at kit-to-man hose when emergency oxygen system is actuated by emergency oxygen lanyard or emergency manual oxygen release.	Upper and lower adjuster or oxygen actuator assembly not adjusted correctly: Oxygen lanyard or manual release pulls free of actuator assembly before reducer/manifold toggle arm is operated by actuator cables.	Adjust oxygen actuator assembly per paragraph 9-73 (Scott), 9-74 (Rocket Jet).
Pull force to actuate emergency oxygen system by emergency oxygen lanyard or emergency manual oxygen release is not within tolerance of 10 to 30 pounds.	Excessive or insufficient washers beneath toggle arm of reducer/ manifold assembly.	Adjust and test reducer/ manifold per paragraph 9-68.
	Foreign matter in actuator.	Clean actuator assembly.
	Expanded diameter of retaining ring on emergency manual oxygen release causing an increased retention load within adjuster of oxygen actuator assembly. (2 and 3, figure 9-21; 78, figure 9-33).	Replace oxygen actuator assembly.

Table 9-8. Troubleshooting (Cont)

Trouble	Probable Cause	Remedy
Pull force to actuate emergency oxygen system by emergency oxygen lanyard or emergency manual oxygen release is not within tolerance of 10 to 30 pounds. (Cont)	Burrs and corrosion on grip assembly and adjuster nut. (2 and 3, figure 9-21; 6, figure 9-30).	Polish off burrs and corrosion and lubricate.
Emergency lanyard coupling assembly loose.	Broken or missing spring.	Repair in accordance with paragraph 9-60.
Operation of handle fails to separate upper from lower container.	Lock actuating cables out of adjustment.	Adjust cables per paragraph 9-70.
	Broken, crushed or bent lock actuating cable assembly. (32, 36 or 42, figure 9-19; 24, 25 or 35, figure 9-20; 13, 14 or 15, figure 9-31).	Replace discrepant cable.
	Damaged lock (51, figure 9-17; 40, 41 and 42, figure 9-20; 25, figure 9-31).	Replace discrepant lock.
	Pin (4, figure 9-26) opposite slot on disk in multi-release assembly has sheared (Rocket Jet only).	Replace multi-release assembly.
	Swaged ball slipped off cable.	Install new swaged ball on cable.
Handle does not release from kit within tolerance of 10 to 30 pounds.	Latch in handle not clearing latch engagement projection on multi-release housing during handle operation.	Adjust position of latch on guide per paragraph 9-72.
	Broken, crushed or bent lock actuating cable assembly. (32, 37 or 42, figure 9-19; 24, 25 or 35, figure 9-20; 13, 14 or 15, figure 9-31).	Replace discrepant cable.
	Damaged lock (51, figure 9-17; 40, 41 and 42, figure 9-20; 25, figure 9-31).	Replace discrepant lock.
Unable to obtain proper adjustment of lapbelt assembly.	Faulty lapbelt adjuster.	Inspect/replace lapbelt adjuster in accordance with paragraph 9-64.
	Improper routing of webbing.	

9-52. CLEANING CUSHIONS AND FABRIC COMPONENTS. Clean seat cushions and all fabric components as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Cleaning Compound	MIL-C-25769
As Required	Detergent, General Purpose	MIL-D-16791
As Required	Lint-free Cloth	MIL-C-85043 NIIN 00-044-9281

NOTE

If using cleaning compound (MIL-C-25769), combine one part compound to three parts water. If using general purpose detergent, follow directions on container.

1. Prepare detergent or cleaning compound (MIL-C-25769) solution.

2. Apply solution to soiled area with spray or sponge.

3. Allow solution to remain on surface for a few minutes, then scrub with soft brush or cloth.

4. Rinse surface thoroughly with water; wipe with cloth or sponge.

NOTE

Repeat steps 1 through 4 until material is clean.

5. Repeat step 4 until material is free from all solution.

6. Allow material to dry thoroughly.

9-53. INSPECTION.

9-54. Inspect the disassembled parts for damage, distortion, corrosion, and other damage in accordance with table 9-9. Inspect survival items in accordance with NAVAIR 13-1-6.5.

9-55. (SCOTT) INSPECTION OF RELEASE HANDLE ASSEMBLY. Inspect the release handle assembly as follows:

WARNING

Verify that ground handling safety equipment is installed before starting work in aircraft cockpit(s). Refer to appropriate Maintenance Instruction Manual.

CAUTION

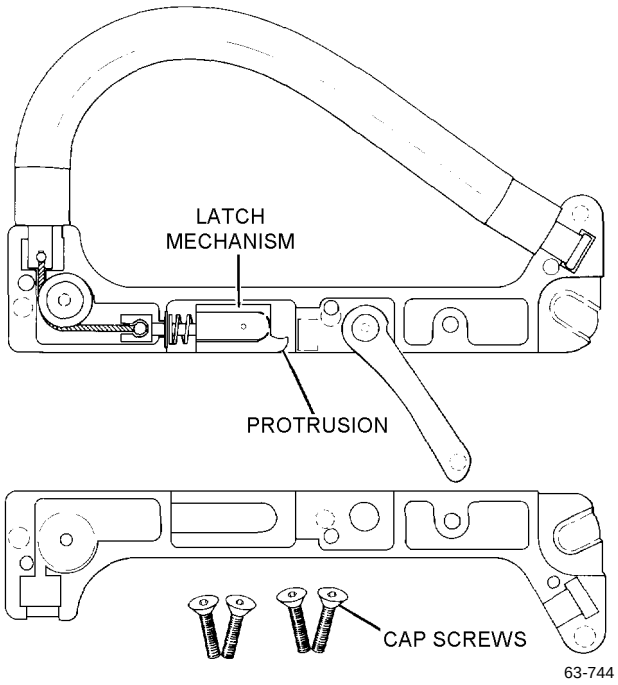
Care must be taken to avoid emergency signal transmission during removal and installation of RSSK unit.

1. Remove RSSK-8 from aircraft ejection seat.

2. Remove handle assembly from RSSK-8.

3. Disassemble handle assembly by removing four cap screws.

4. Inspect latch mechanism for proper positioning by ensuring that protrusion on latch is aligned with bottom of handle assembly as shown. If latch is improperly inserted, reposition.



Step 4 - Para 9-55

Table 9-9. Inspection

Component	Task
Survival Kit (Figures 9-18, 9-21, 9-30 and 9-33)	
Cushion Assembly	Check cover assembly for fabric damage and loose, frayed, or broken stitching.
	Check slide fastener for security of attachment and trouble-free operation.
	Check for presence and security of snaps on lower surface.
	Check that rubber material of cushion filler assembly is securely bonded to rigid former.
	Check date installed on cushion foam and replace as required.
Parachute Retention Straps (4, figure 9-18; 10, figure 9-30)	Check buckle and parachute quick-disconnect for corrosion and security of attachment to webbing.
	Check quick-disconnect spring for cracks, loss of tension, deformation, and security of attachment.
	Check webbing for damage and for loose, frayed, or broken stitching.
Release Assemblies	Check for obvious wear and damage; ensure that releases adopt and maintain open and closed positions during operation.
Release Handle Assembly	Check molded rubber grip for cuts and breaks.
	Check for secure fit of balls on cable; examine cable for damage and wear.
	(Scott Only) Check release handle assembly (P/N 800676-03) to determine proper installation of latch mechanism (P/N 10001338) (paragraph 9-55).
Dropline Assembly	Examine boots for fabric damage and loose, broken, or frayed stitching.
	Check dropline for material damage, loose, frayed, or broken stitching.
Liferaft Cover	Examine for fabric damage and loose, broken, or frayed stitching.
Equipment Container	Check slide fastener for security of attachment and trouble-free operation.
	Inspect container material for damage and for loose, broken, or frayed stitching.
Survival Items	Inspect in accordance with NAVAIR 13-1-6.5.

Table 9-9. Inspection (Cont)

Component	Task
Lower Container Assembly (Figures 9-19, 9-20, and 9-31)	
Left and Right Forward Guide Brackets (1 and 7, figure 9-19; 1 and 7, figure 9-20; 50 and 58, figure 9-31)	Check for deformation. Refer to paragraph 9-56.
	Check for security of attachment.
Cable Assemblies (32, 37 and 42, figure 9-19; 24, 25 and 35, figure 9-20; 13, 14 and 15, figure 9-31)	Check for broken, bent or crushed conduit
	Inspect cables for damaged or broken strands
	Check for security of terminal balls on cables and couplings on conduit in accordance with paragraph 9-40.
	Check coupling nuts for rounded corners of flats and for thread damage.
	Operate cables within respective conduits and ensure that cables move freely without binding.
Grommet (54, figure 9-19; 45, figure 9-20; 22, figure 9-31)	Inspect for cracks, breaks and deterioration.
Lower Container Assembly	Check for cracks and damage to fiberglass and attached extruded metal lip. Ensure that extruded metal lip is bonded to fiberglass and there is no separation between parts.
Guide (64, figure 9-19)	Inspect for cracked ball socket, bent shaft and damaged threads.
Left and Right Handle Halves	Check for wear at aft pivot engagement area and along latch sliding area.
Handle Protector Bracket (49, figure 9-20; 35, figure 9-31) (NOT REQ'D on Rocket Jet P/N 283100-17)	(AFTER ACC 377) Check for cracks and damage to the plastic.
	Check for security of attachment.
Upper Container Assembly (Figures 9-21 and 9-33)	
Clamps (7, figure 9-21; 1, figure 9-33)	Check for damaged rubber.
Tube Assembly (6, figure 9-21; 13, figure 9-33)	Inspect tube for dents, cracks and gouges and inspect integral nut for damaged threads and rounded corners of hexagon flats.
All Relief Valves, Check Valves, Unions, and Cross	Inspect threads for damage.
Left and Right Harness Assemblies	Check bracket assembly for bends, damage and cracks in metal adjacent to welding material and security of attachment.

Table 9-9. Inspection (Cont)

Component	Task
Upper Container Assembly (Figures 9-21 and 9-33) (Cont)	
Left and Right Harness Assemblies (Cont)	Check webbing for wear and damage and for frayed, broken or loose stitching.
	Inspect side release lugs for damage and security of attachment. Inspect aftmost hole of release lugs for elongation.
	(After ACC 377) Inspect adjuster for proper operation. Adjuster must release webbing with a maximum pull-force of 8 lb on yellow tab. If harness webbing fails to move freely through adjusters in either direction, replace both left and right harness assemblies, even if only one side fails, using P/N 802196-11 and P/N 802196-12
Left, Right and Center Lid Latches	Check latches for distortion and for damage to ends which engage lid locks.
	Check for security of attachment.
Left and Right Hinges	Inspect the right and left hinges for cracks in the welded areas. If cracks are sighted, refer to repair procedures paragraph 9-59 for corrective action.
Upper Container	Inspect for cracks and damage to fiberglass and attached extruded metal lip. Ensure that extruded metal lip is bonded to fiberglass and there is no separation between parts.
Oxygen Actuator Assembly (Figures 9-24, 9-25, 9-30 and 9-34)	
Manual Emergency Oxygen Release	(Before ACC 325 Part II) Inspect terminal assembly metal end fitting and molded rubber for damage.
	(After ACC 325 Part II) Inspect manual emergency oxygen release handle (green ring) for damage and security of attachment.
Adjusters (10, figure 9-24; 4 and 5, figure 9-25; 10 and 13, figure 9-34)	Check for damaged threads.
Pulley (8, figure 9-24; 7, figure 9-25; 7, figure 9-34)	Inspect grooves for wear.
Link Assembly (4, figure 9-24; 8 and 11, figure 9-25; 11, 14 and 15, figure 9-34)	Check cables for fraying and broken strands.
	Check for security of balls and links on respective cables.
Housing	Inspect for damage around contour and to threads.

Table 9-9. Inspection (Cont)

Component	Task
Oxygen Actuator Assembly (Figures 9-24, 9-25, 9-30 and 9-34) (Cont)	
Lanyard Assembly (13, figure 9-24; 3, figure 9-30)	Check for security of pin in lock coupling.
	Inspect lanyard assembly for loose, broken or missing springs. Repair in accordance with paragraph 9-60.
	Inspect cables for broken strands and fraying.
	Check for security of balls, fork end fittings and link on respective cables.
	Check locking slots of coupling for wear and distortion.
Multi-Release Assembly (Figures 9-26, 9-27 and 9-32)	
Cover	Check for distortion and for cracks in area of holes.
Cable Retainer (3, figure 9-26)	Check pivot hole for wear.
Pins (4 and 5, figure 9-26)	Inspect pins for wear. Ensure that pins are securely staked in disk (6).
Lid Lock Cable Lever (7, figure 9-26; 7, figure 9-32)	Check for cracks and distortion at terminal ball area.
	Inspect pivot hole and slot for wear and damage.
Pins	Check for distortion and wear. Ensure that pins are firmly pressed into housing.
Inserts (16, figure 9-26)	Check inserts for looseness in respective threaded holes. Ensure that inserts are 3/4 to 1-1/2 threads beneath surface of housing.
Housing	Inspect locking projection, serving multi-release handle engagement, for damage and wear.
	Check holes and screw threads for damage.
Lock Assemblies (Figures 9-28, 9-29 and 9-31)	
Cover	Check for distortion and cracks in area of holes.
All Locknuts and Nipples	Inspect for cracks and thread damage.
	Check for rounded corners of hexagon flats.
Inserts (11, figure 9-28; 28, figure 9-31)	Check inserts for looseness in respective threaded holes. Ensure that inserts are 3/4 to 1-1/2 threads beneath surface of housing.
Housing	Inspect holes and threads for damage.
	Check the area serving slide operation and the latch.

Table 9-9. Inspection (Cont)

Component	Task
Reducer/Manifold and Tube Assembly (Figures 9-22, 9-23, 9-33, and 9-35)	
Toggle arm	Examine pin holes for wear and threads for damage.
	Check toggle arm re-setting slot for galling.
Retainer (10, figure 9-22; 8, figure 9-23; 10, figure 9-35)	Check adjustment holes and threads for damage.
Flange (12, figure 9-22; 10, figure 9-23; 15, figure 9-35)	Inspect threads, attachment holes and seating surface for damage.
Piston (14, figure 9-22; 12, figure 9-23; 14, figure 9-35)	Check for bent shaft, damage to seat flange and for hole wear.
Plunger (16, figure 9-22; 14, figure 9-23)	Check for bent or damaged shaft diameters and head.
Retainer (17, figure 9-22; 15, figure 9-23; 23, figure 9-35)	Inspect for damaged threads, galled screwdriver slot, cracks and breaks.
Fitting (25, figure 9-22; 22, figure 9-23; 28, figure 9-35)	Check for damaged threads and round corners of hexagon flats.
Filter (26, figure 9-22; 23, figure 9-23; 30, figure 9-35)	Inspect for damaged mesh and security of attachment within housing.
Housing	Check for gouges and other obvious damage.
	Inspect ports and threads for damage.
	Check diaphragm seating area for nicks, distortion and breaks.
Plug Assembly	Inspect chain and plug for damage.
	Inspect that chain is securely riveted to plug.
Cap, body and nut (34, 37 and 31, figure 9-22; 28, 34 and 31, figure 9-23; 76 and 77, figure 9-33)	Check for damaged threads and rounded corners of hexagon flats.
Plug (35, figure 9-22; 32, figure 9-23)	Inspect for damaged threads and seating areas.
Valve fitting and indicator manifold (39 and 43, figure 9-22; 36, figure 9-23; 86, figure 9-33)	Check for cracks and breaks.
	Inspect ports and threads for damage.
Gage (42, figure 9-22; 34, figure 9-23; 93, figure 9-33)	Check for cracked or missing glass, bent or broken needle and stop, or jammed needle.
	Inspect for rounded corners of hexagon flats, security of gage cover and damaged threads.

Table 9-9. Inspection (Cont)

Component	Task
Reducer/Manifold And Tube Assembly (Figures 9-22, 9-23, 9-33, and 9-35) (Cont)	
Gage (42, figure 9-22; 34, figure 9-23; 93, figure 9-33) (Cont)	Check for presence and security of integral filter in threaded shaft.
Tube assembly (48, figure 9-22; 41, figure 9-23; 13, figure 9-33).	Inspect end fitting for damage to threads and packing seats.
	Check tube for cracks, dents, nicks, gouges and scratches which penetrate metal.

5. Assemble handle assembly by installing four cap screws removed in step 3.

6. Insert handle assembly into RSSK-8 actuator assembly and ensure that handle is latched and RSSK-8 is locked.

7. Install RSSK-8 in ejection seat.

9-56. INSPECTION OF RSSK-8 GUIDE BRACKETS. Inspect the guide brackets on the RSSK-8 as follows:

Support Equipment Required

Quantity	Description	Reference Number
1	Guide Bracket Gage	—

NOTE

If guide bracket throat openings are not within tolerance specified, guide brackets must be replaced. Reshaping or interchanging guide brackets between manufacturers is not permitted.

1. Fabricate guide bracket gage in accordance with paragraph 9-81.

2. Pass end of guide bracket gauge marked 0.375 through throat portion of RSSK forward guide bracket. If gauge passes through throat portion, guide bracket has been enlarged and will be replaced.

3. Repeat step 2 for opposite guide bracket.

4. Pass end of guide bracket gauge marked 0.320 through throat portion of RSSK forward guide bracket. If gauge does not pass throat, bracket has been compressed and shall be replaced.

5. Repeat step 4 for opposite guide bracket.

6. Upon receipt of new brackets, check throat openings in accordance with steps 2, 3, 4, and 5.

9-57. REPAIR AND REPLACEMENT.

9-58. REPAIR. Repair of individual components within any assembly is authorized only in accordance with procedures outlined in this manual. For all repairs, make necessary entries on appropriate form in accordance with OPNAVINST 4790.2 Series. Refer to table 9-10 for available repair kits.

Table 9-10. Repair Kits

Component	Repair Kit P/N	
	Scott	Rocket Jet
Reducer	—	283803
Spacers Set	—	767901-90

9-59. Repair of Hinge Weld Cracks. To repair upper container hinge welds, proceed with either the Hinge Reinforcement Method (steps 1 or 2) or the Hinge Welding Method (step 3).

NOTE

Upper lid assemblies shall be considered beyond repair if crack extends past extrusion into fiberglass area or hinge is displaced from normal location in any way.

Illustrations shown in following procedures depict RSSK-8 manufactured by Scott. These basic procedures shall be used for RSSK-8s manufactured by Rocket Jet with slight alterations for configuration differences.

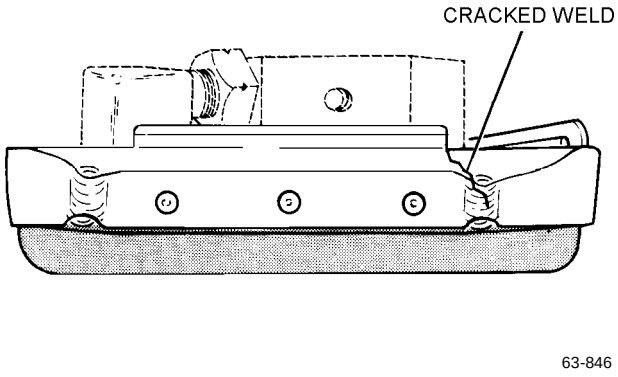
Illustrations shown in following procedures depict RSSK-8 lid assembly inverted for ease of oxygen component removal.

Materials Required (Reinforcement Method)

Quantity	Description	Reference Number
As Required	Rivets	MS20470AD3-6
As Required	Anodize (Type I, Grade B, Class 2)	MIL-C-5541A
As Required	Steel, Stainless Corrosion-resisting (18-8, Composition-G, Condition 1/4 Hard, 0.032 Thick)	MIL-S-5059
As Required	Weld Rod, 6061 Aluminum Alloy	—

1. Hinge Reinforcement Method (Right hinge weld).

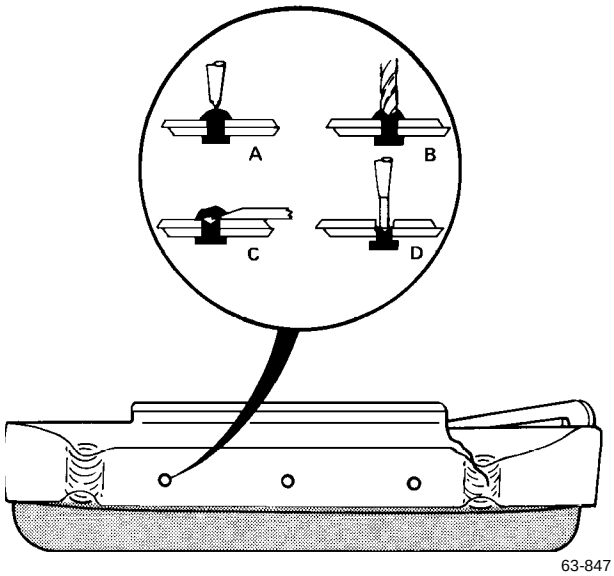
a. Locate cracked weld and ensure repair is permissible before proceeding.



Step 1a - Para 9-59

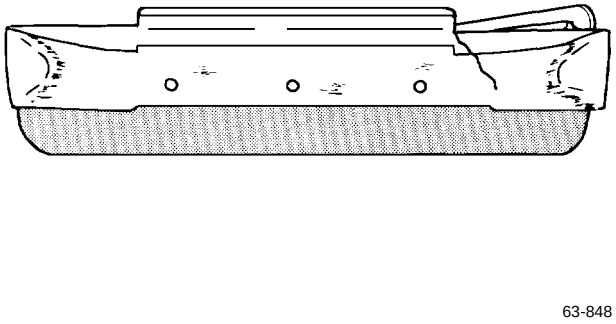
b. Remove emergency oxygen U-tube assembly (6, figure 9-21; 13, figure 9-33).

c. Remove the three existing hinge rivets.



Step 1c - Para 9-59

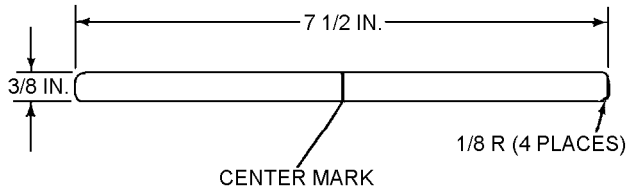
d. Machine the welded area as necessary; grinding is permissible. All grinding must be perpendicular to the weld bead. Blend weld to base metal and smooth with emery.



63-848

Step 1d - Para 9-59

e. Cut a piece of stainless steel 7 1/2 inches long and 3/8 inch wide. Round edges to 1/8-inch radius. Locate center of stainless steel piece and mark.



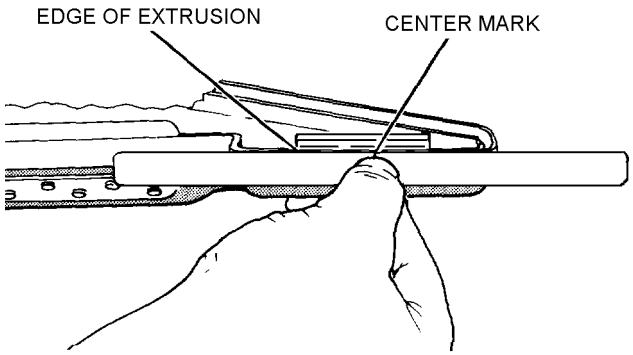
63-849

Step 1e - Para 9-59

NOTE

Ensure stainless steel piece is aligned horizontally along edge of extrusion before holes are marked for drilling.

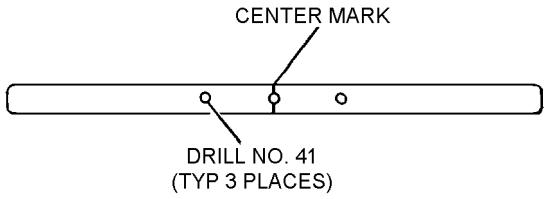
f. Locate and mark center of RSSK thigh support. Align stainless steel piece along edge of the extrusion. Place center mark of stainless steel piece over center mark of thigh support and mark three hole locations onto stainless steel piece.



63-850

Step 1f - Para 9-59

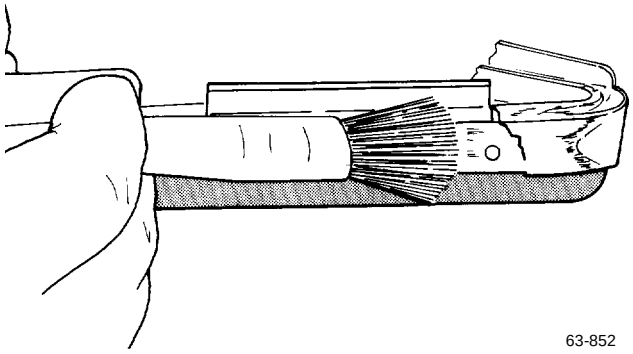
g. Center punch and drill, using No. 41 drill.



63-851

Step 1g - Para 9-59

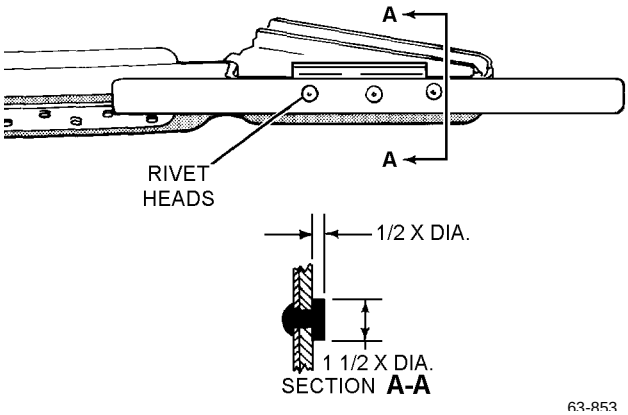
h. Anodize ground-down area on extrusion assembly.



63-852

Step 1h - Para 9-59

i. Rivet stainless steel reinforcement to extrusion assembly with heads of rivets facing outward.

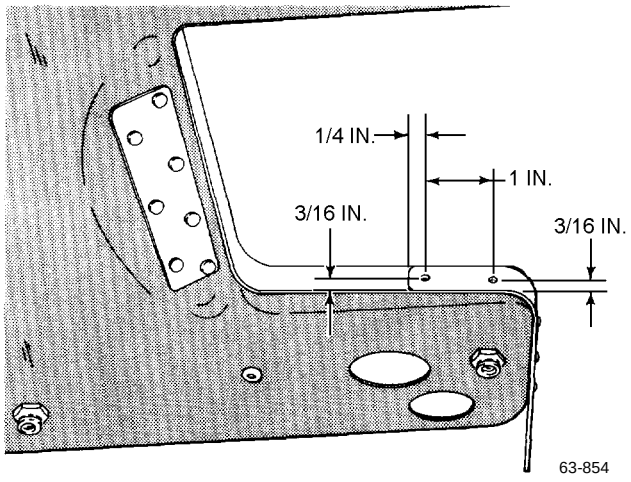


Step 1i - Para 9-59

CAUTION

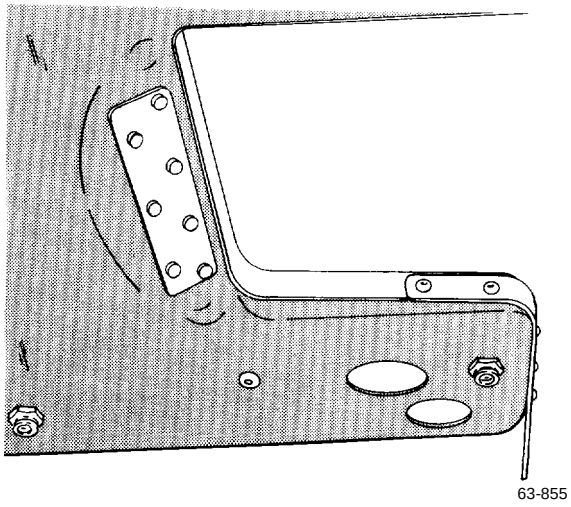
Ensure drilled holes in side of extrusion do not enter lip; rivet in this area would cause obstruction and prevent container halves from mating properly.

j. Bend left portion of stainless steel reinforcement around extrusion assembly. Mark, center punch, and drill two holes using No. 41 drill as shown.



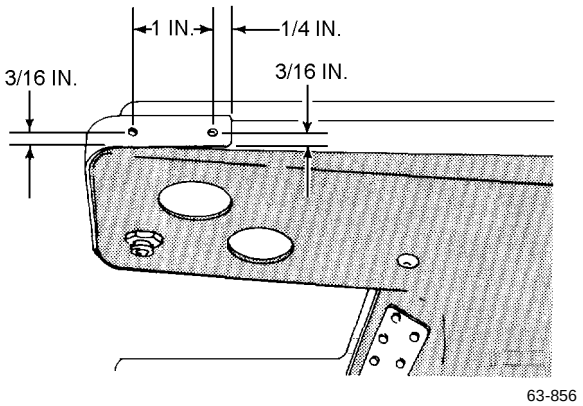
Step 1j - Para 9-59

k. Rivet stainless steel reinforcement to extrusion assembly with heads of rivets facing outward.



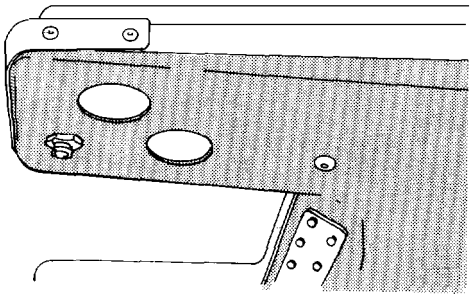
Step 1k - Para 9-59

l. Bend the right portion of the stainless steel reinforcement around the extrusion assembly. Mark, center punch and drill two holes using a No. 41 drill as shown.



Step 1l - Para 9-59

m. Rivet the stainless steel reinforcement to the extrusion assembly with the heads of rivets facing outward.

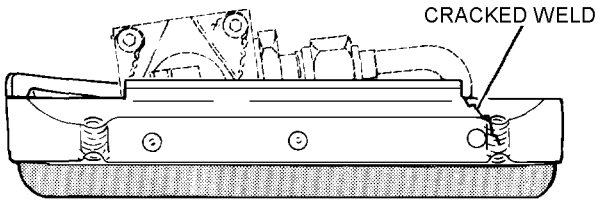


Step 1m - Para 9-59

n. Reassemble emergency oxygen U-tube assembly (6, figure 9-21; 13, figure 9-33) to kit.

2. Hinge Reinforcement Method (Left hinge weld).

a. Locate cracked weld and ensure repair is permissible before proceeding.

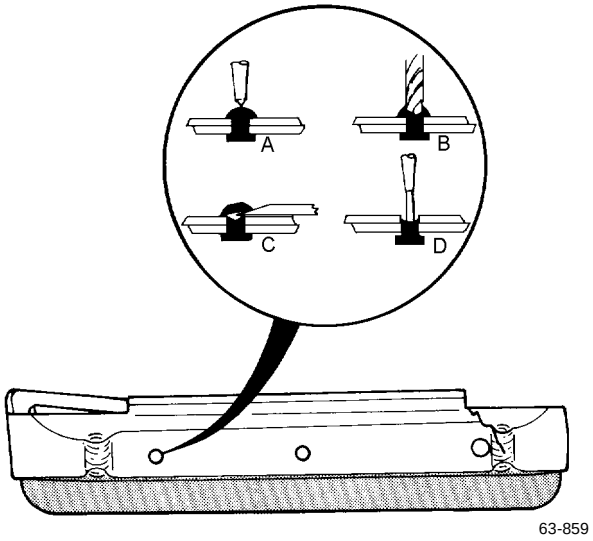


Step 2a - Para 9-59

b. Remove emergency oxygen U-tube assembly (6, figure 9-21; 13, figure 9-33).

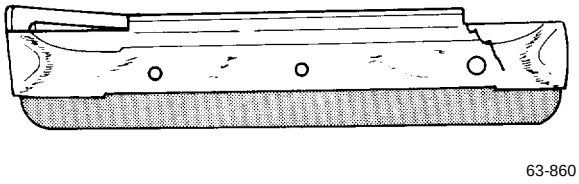
c. Remove emergency oxygen actuator assembly (2 or 4, figure 9-21; 78, figure 9-33).

d. Remove the two existing hinge rivets.



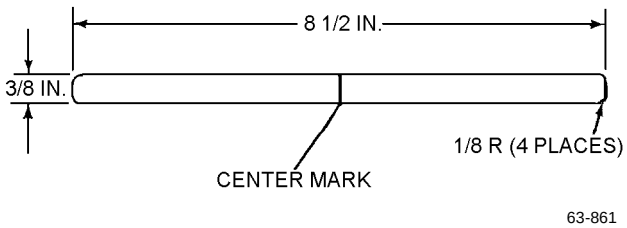
Step 2d - Para 9-59

e. Machine the welded area as necessary; grinding is permissible. All grinding must be perpendicular to the weld bead. Blend weld to base metal and smooth with emery.



Step 2e - Para 9-59

f. Cut a piece of stainless steel 8 1/2 inches long and 3/8 inch wide. Round edges to 1/8-inch radius. Locate center of stainless steel piece and mark.

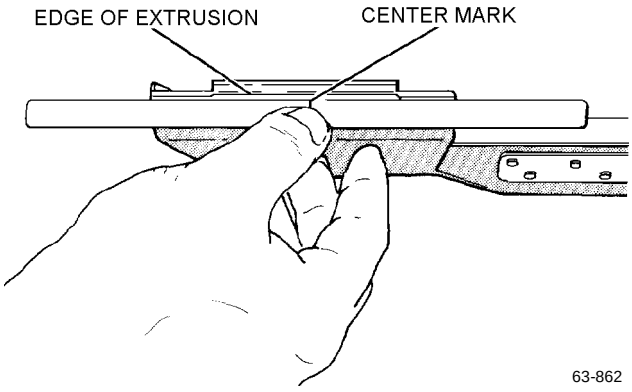


Step 2f - Para 9-59

NOTE

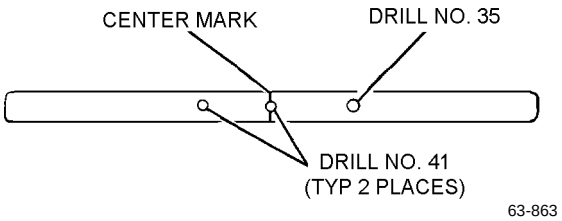
Ensure stainless steel piece is aligned horizontally along edge of extrusion before holes are marked for drilling.

g. Align stainless steel piece along edge of extrusion. Place center mark over center of existing hole in extrusion and mark existing hole locations on stainless steel piece.



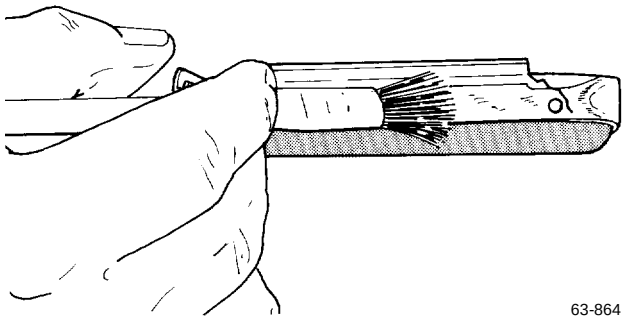
Step 2g - Para 9-59

h. Center punch and drill two holes using a No. 41 drill and one hole using a No. 35 drill.



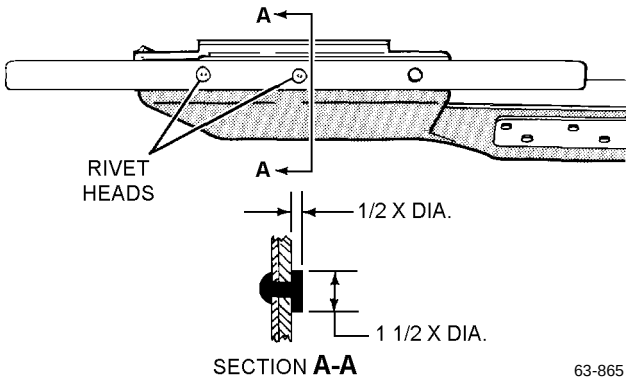
Step 2h - Para 9-59

i. Anodize the ground-down area on the extrusion assembly.



Step 2i - Para 9-59

j. Rivet the stainless steel piece to the extrusion in two places with heads of rivets facing outward.

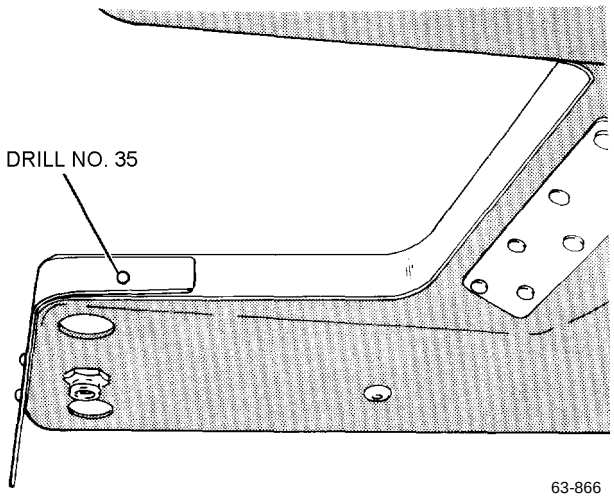


Step 2j - Para 9-59

CAUTION

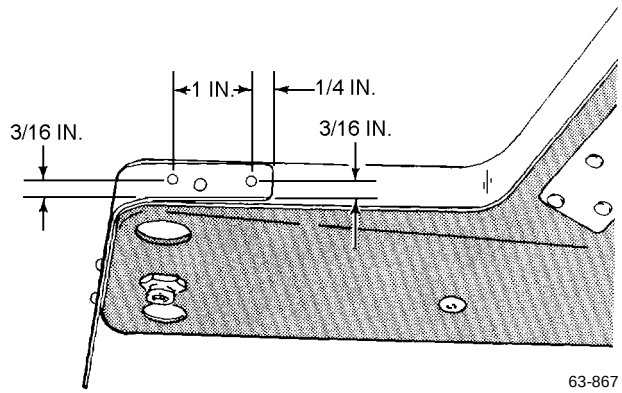
Ensure drilled holes in sides of extrusion do not enter lip; a rivet in this area would cause an obstruction and prevent container halves from mating properly.

k. Bend the right portion of the stainless steel reinforcement around the extrusion assembly. Mark, center punch and drill hole for emergency oxygen actuator assembly using a No. 35 drill as shown.



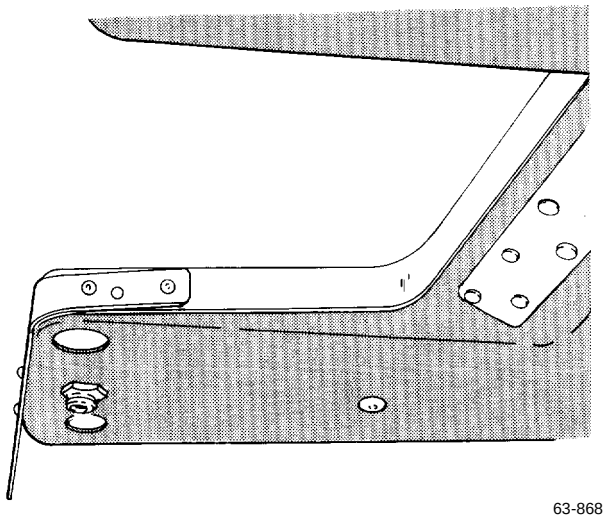
Step 2k - Para 9-59

l. Mark, center punch and drill two holes using a No. 41 drill as shown.



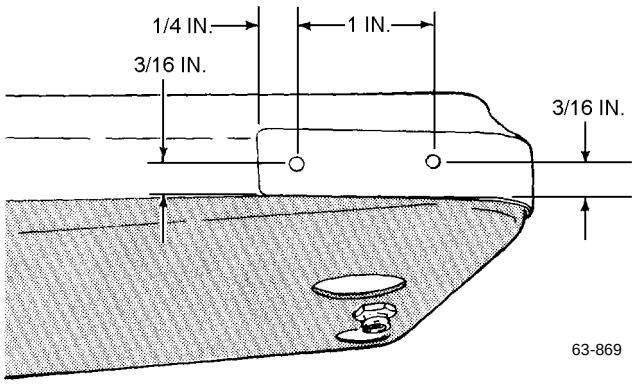
Step 2l - Para 9-59

m. Rivet the stainless steel reinforcement to the extrusion assembly with the heads of rivets facing outward.



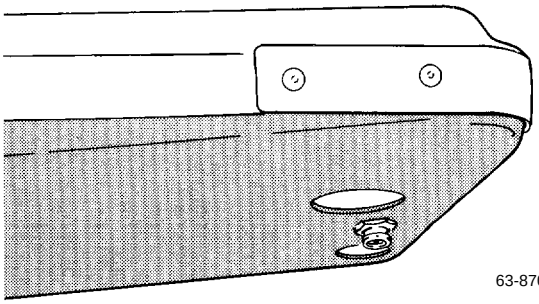
Step 2m - Para 9-59

n. Bend the left portion of the stainless steel reinforcement around the extrusion assembly. Mark, center punch and drill two holes using a No. 41 drill as shown.



Step 2n - Para 9-59

o. Rivet the stainless steel reinforcement to the extrusion assembly with the heads of rivets facing outward.



Step 2o - Para 9-59

p. Reassemble emergency oxygen actuator assembly (2 or 4, figure 9-21; 78, figure 9-33) to kit.

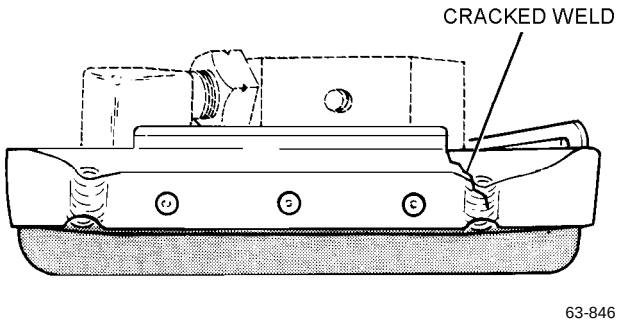
q. Reassemble emergency oxygen U-tube assembly (6, figure 9-21; 13, figure 9-33) to kit.

3. Hinge Welding Method.

NOTE

The following procedures pertain to either right or left hinge configurations.

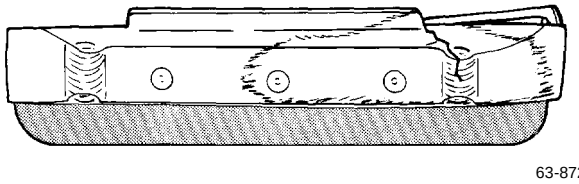
a. Locate cracked weld and ensure repair is permissible before proceeding.



Step 3a - Para 9-59

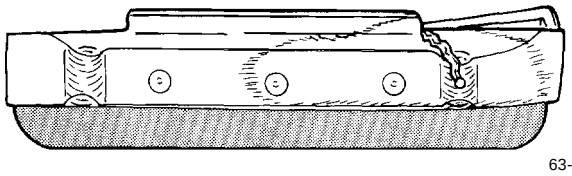
b. Remove emergency oxygen U-tube assembly (6, figure 9-21; 13 figure 9-33).

c. Mechanically remove all paint and chemical coating in the area of the cracked cast approximately 1/2 inches on each side.



Step 3c - Para 9-59

d. Stop-drill and rout out crack as necessary.

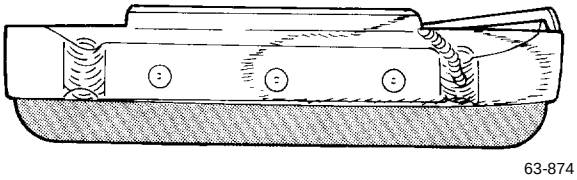


Step 3d - Para 9-59

NOTE

Take all necessary precautions to eliminate or minimize damage to the fiberglass material. Slight scorching of the fiberglass resin is permissible only on the inside of the container. Scorching shall be held to minimum by protecting the fiberglass during the welding process. Any distortion and damage which goes through the outer resin coating into the fiberglass cloth itself is not acceptable.

e. Weld in accordance with MIL-W-8604 (AER) using the inert gun, shielded-arc process with as low heat as practicable and 6061 aluminum alloy welding rod.



Step 3e - Para 9-59

NOTE

Remove all weld metal that would interfere with proper fit-up.

f. Inspect the weld repair for soundness, visually and by the penetrant method. Reject parts that fail the inspection criteria.

g. Retouch paint as necessary.

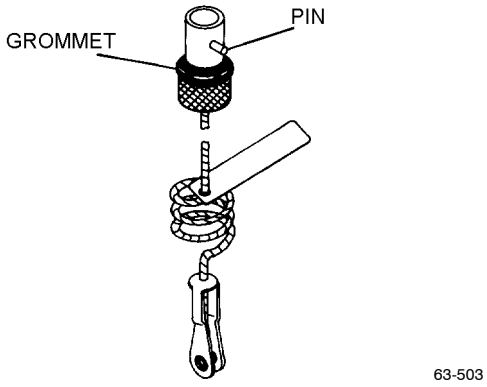
h. Reassemble emergency oxygen U-tube assembly (6, figure 9-21; 13, figure 9-33) to kit.

9-60. Repair of Emergency Oxygen Lanyard Coupling. To repair an emergency oxygen lanyard coupling assembly which contains a loose, broken, or missing spring proceed as follows.

Support Equipment Required

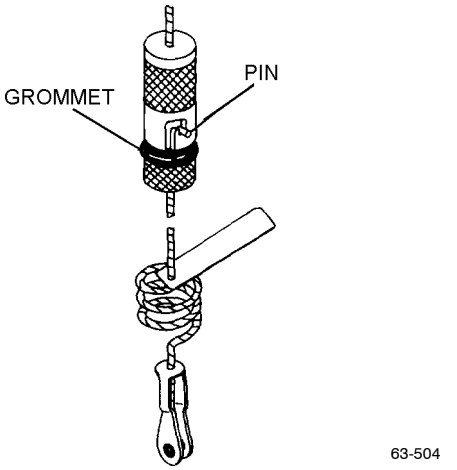
Quantity	Description	Reference Number
1	Grommet	KS 88600-8 (CAGE 09344)

1. Slide grommet over pin and position as shown.



Step 1 - Para 9-60

2. Connect coupling assembly.



Step 2 - Para 9-60

9-61. Repair of Cushion Assembly. Repair of the cushion assembly is limited to sewing loose or open seams, broken stitches, and small rips and tears.

9-62. Repair/Replacement of Oxygen Gage Window.

Materials Required

Quantity	Description	Reference Number
1	Window, Observation	308411 NIIN 00-059-6401
As Required	Adhesive, Cyanoacrylate	MIL-A-46050 NIIN 00-142-9193
	or	
	Adhesive, Cellulose Nitrate	MIL-A-388A P/N A-A-529 NIIN 00-270-8150

1. Ensure both surfaces to be bonded are clean and dry.

WARNING

Avoid adhesive contact with skin and eyes.

2. Apply small amount of adhesive around edge of window opening in lid assembly and on rim of window.

3. Bond both surfaces together and hold until adhesive is set.

NOTE

Cure time for adhesive MIL-A-46050 is one hour after parts are mated together

Cure time for adhesive A-A-529 is 24 hours after parts are mated.

9-63. REPLACEMENT. All individual parts that fail to pass inspection shall be replaced except where repair procedure is indicated. Refer to source code listing (SM&R Code) in Numerical Index of the Illustrated Parts Breakdown to aid in determining replaceable components. All adjustable components or assemblies that failed to pass respective tests shall be adjusted to meet required specifications.

9-64. (East/West) Replacement of Lapbelt Adjuster. To replace missing or damaged lapbelt adjuster on the restraint harness, proceed as follows:

Materials Required

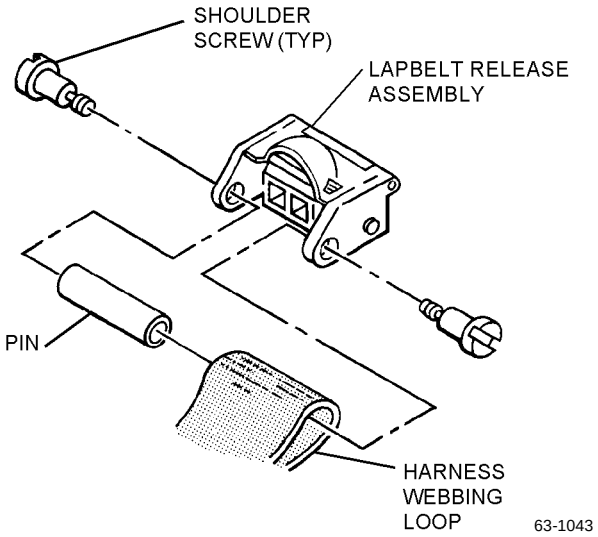
Quantity	Description	Reference Number
As Required	Adjuster, Lapbelt	184C100-1 (CAGE 30941)
As Required	Sealing, Locking, and Retaining Compound Grade A	MIL-S-22473 NIIN 00-952-2205

NOTE

Replacement procedures can be used on both right and left side restraint harness assemblies.

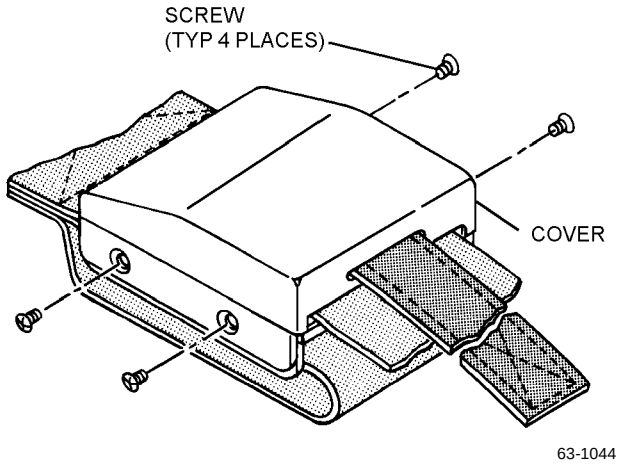
1. Remove existing lapbelt adjuster from restraint harness as follows:

a. Remove lapbelt release assembly by removing two shoulder screws. Pull release assembly away from webbing, and slide pin out of harness webbing loop. Retain all parts.



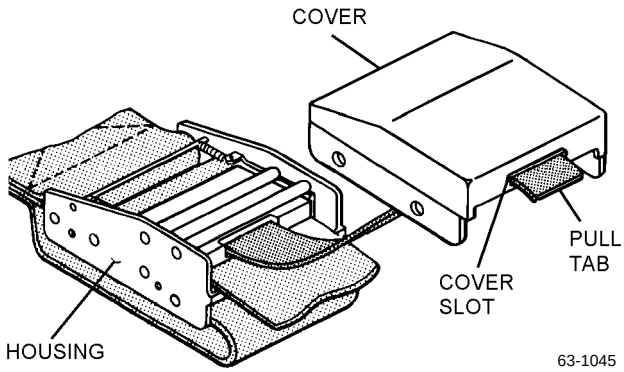
Step 1a - Para 9-64

b. Remove four screws (two on each side) from cover of lapbelt adjuster assembly.



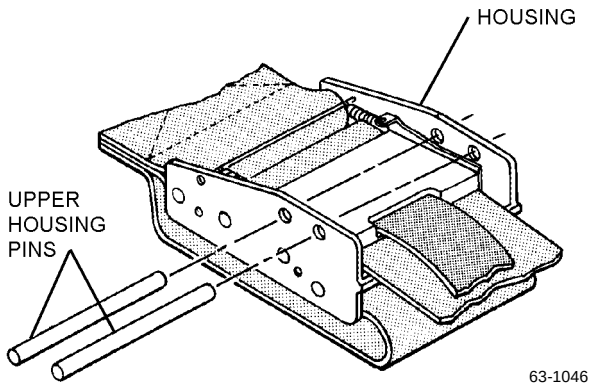
Step 1b - Para 9-64

c. Remove cover from lapbelt adjuster housing, and slide pull tab through cover slot.



Step 1c - Para 9-64

d. Slide upper housing pins out of housing.

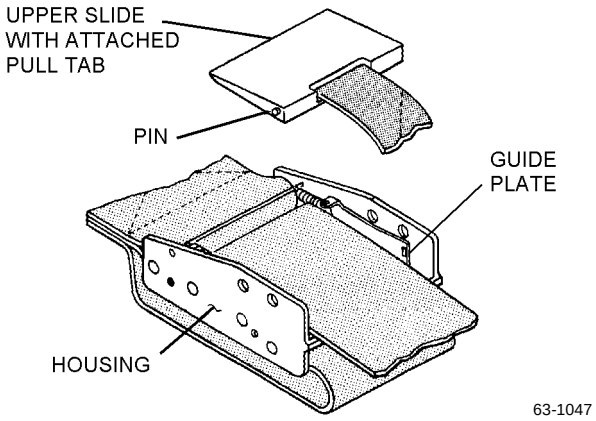


Step 1d - Para 9-64

NOTE

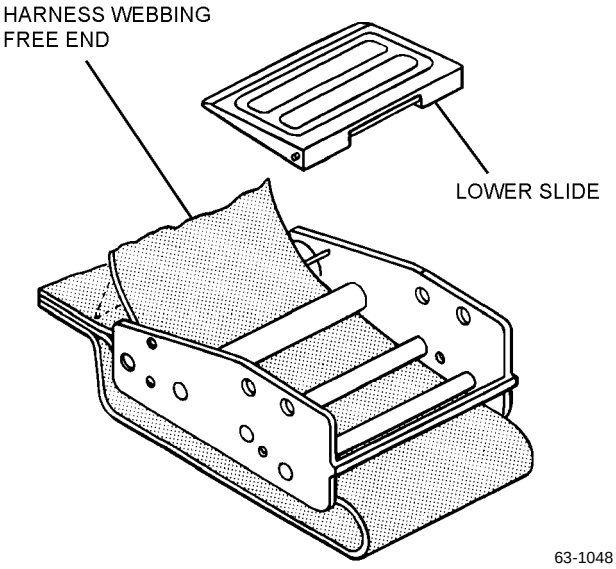
Sliders are held to guide plates by pins. Pull slide up so guide plates are above edge of housing, and rotate slide out of guide plates.

e. Remove upper slide with attached pull tab.



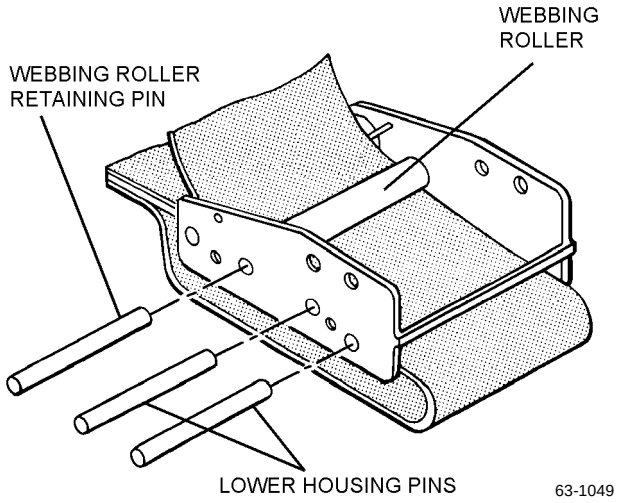
Step 1e - Para 9-64

f. Lift free end of harness webbing, and remove lower slide.



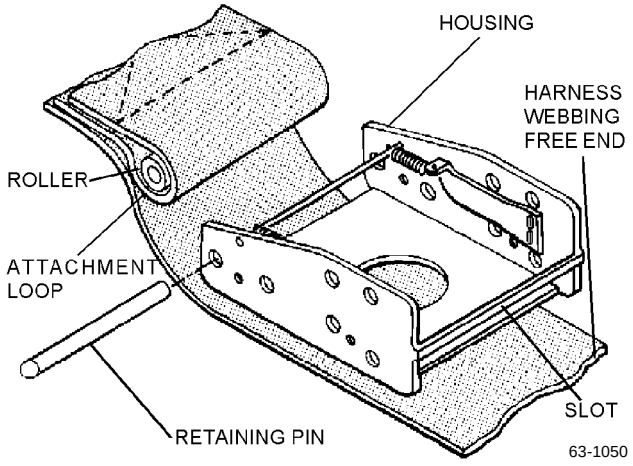
Step 1f - Para 9-64

g. Position guide plates up and out of way. Remove two lower housing pins and webbing roller retaining pin. Webbing roller will fall away.



Step 1g - Para 9-64

h. Pull free end of harness webbing through slot in housing. Remove pin retaining harness webbing attachment loop roller. Housing will fall away.



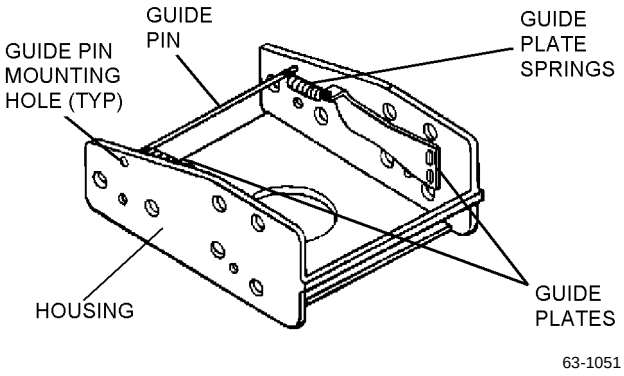
Step 1h - Para 9-64

2. Install new lap belt adjuster as follows:

NOTE

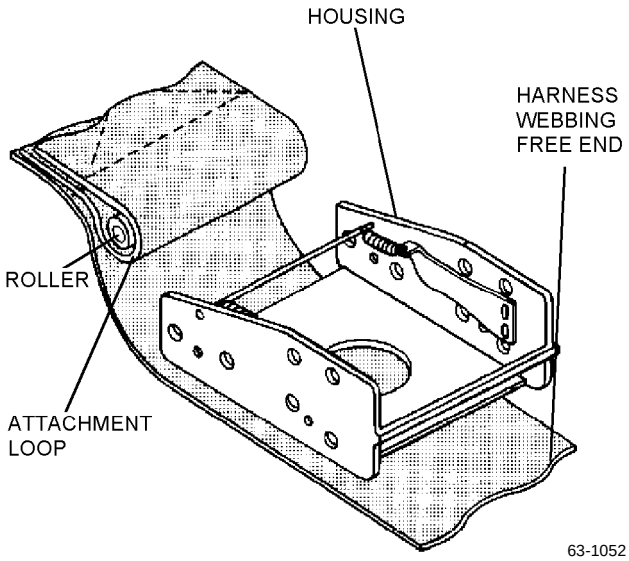
The six pins (two retaining and four housing) are interchangeable. The two rollers are interchangeable.

a. If required, slide guide plate springs onto guide pin; ensure guide plates are positioned correctly. Install assembly into adjuster housing guide pin mounting holes.



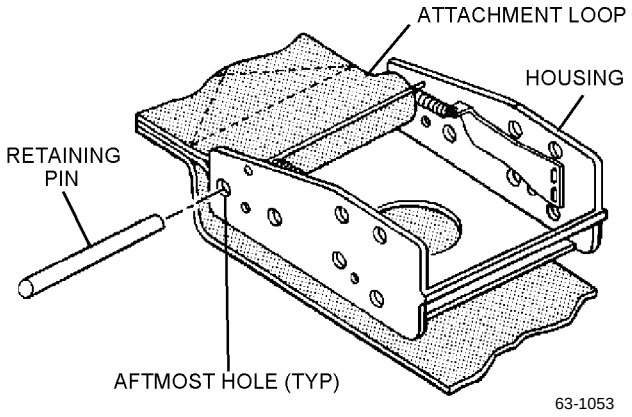
Step 2a - Para 9-64

b. Insert roller into attachment loop of harness webbing. Place adjuster housing on top of free end of harness webbing so that aft end of housing faces attachment loop.



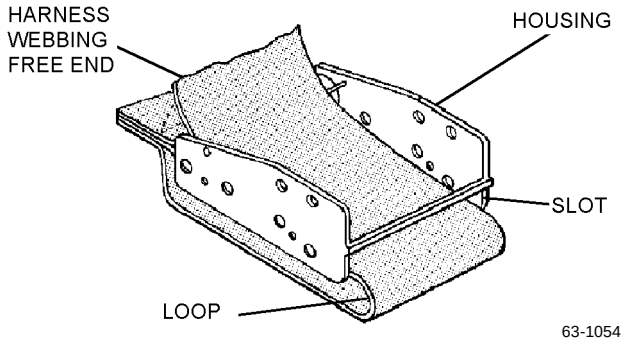
Step 2b - Para 9-64

c. Position housing onto attachment loop and roller. Align hole through roller with aftmost holes in housing, and install retaining pin.



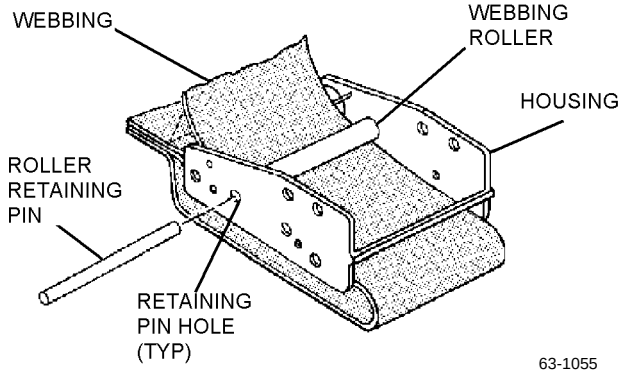
Step 2c - Para 9-64

d. Fold free end of webbing back towards housing, and insert end through slot in housing to form loop in webbing forward of adjuster. Guide plates may be positioned up and back to avoid any interference.



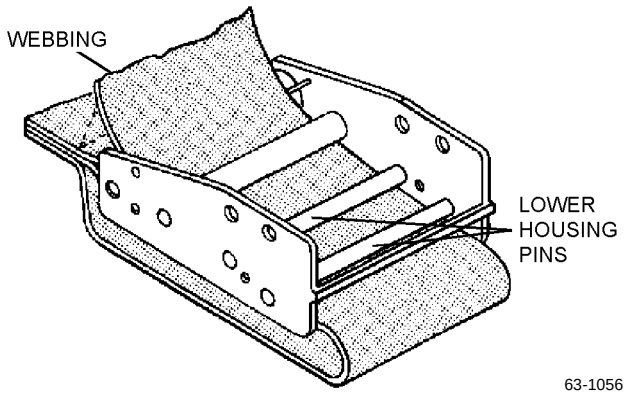
Step 2d - Para 9-64

e. Install webbing roller into housing on top of webbing. Position roller to align with proper holes in housing, and insert roller retaining pin.



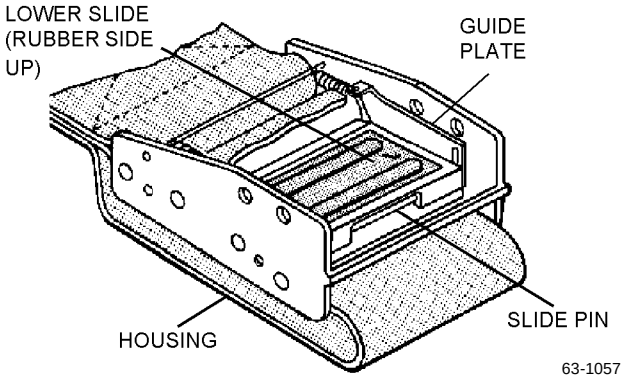
Step 2e - Para 9-64

f. Insert lower housing pins; ensure pins are resting on top of webbing.



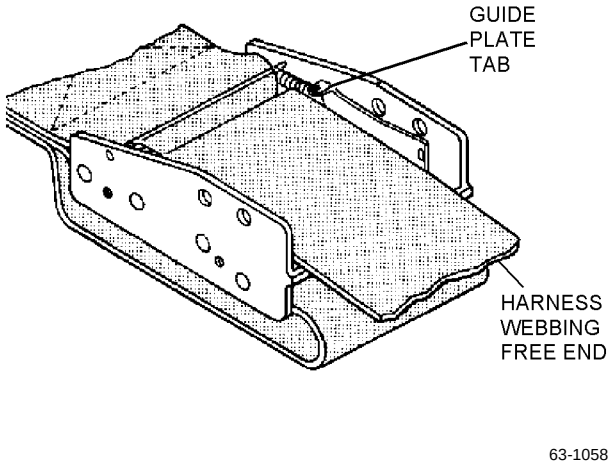
Step 2f - Para 9-64

g. Position guide plates into housing on top of lower housing pins, and install lower slide rubber side up. Ensure slide pin is correctly positioned into lower slots of guide plates.



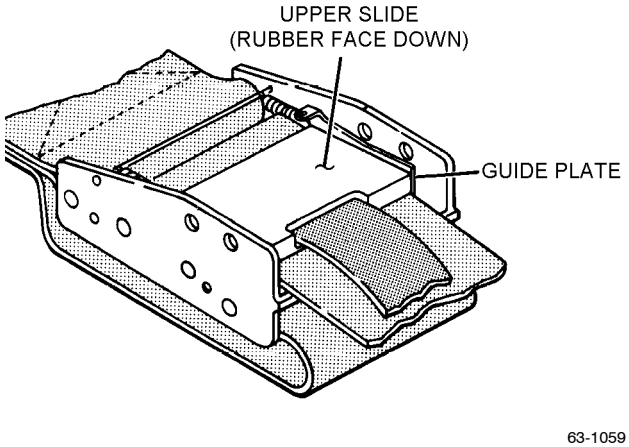
Step 2g - Para 9-64

h. Position harness webbing free end under tabs of guide plates, and lay webbing down over lower slide.



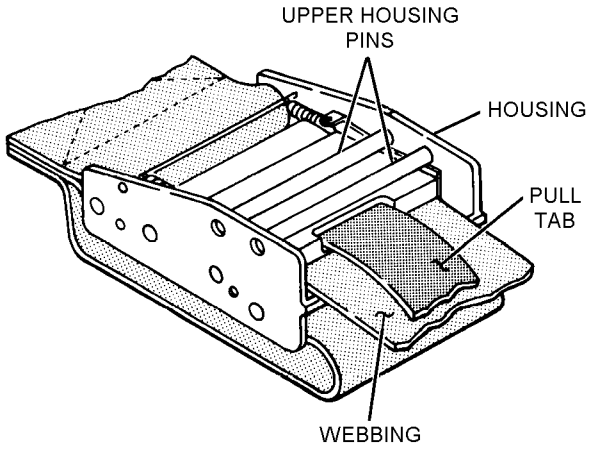
Step 2h - Para 9-64

i. Install upper slide, rubber face down, ensuring lower slide does not come out of place. Ensure slide pins sit securely in slots of guide plates.



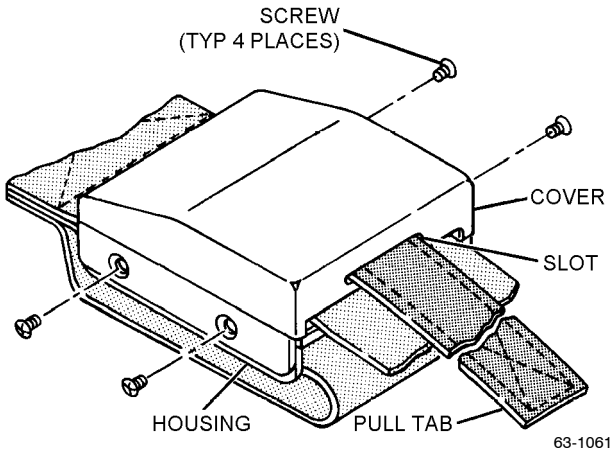
Step 2i - Para 9-64

j. Install upper housing pins. Ensure slides operate correctly; pull on pull tab to check simultaneous movement of slides. Webbing shall slide with ease through adjuster in either direction.



Step 2j - Para 9-64

k. Insert pull tab from inside out, through slot in cover. Place cover on housing, and align four screw holes. Apply sealing compound to threads of four screws, and secure cover to housing.



Step 2k - Para 9-64

3. Apply sealing compound to threads of two shoulder screws, and install lapbelt release assembly removed in step 1a.

4. Make necessary entries on appropriate form in accordance with OPNAVINST 4790.2 Series.

9-65. Deleted.

9-66. ASSEMBLY.

NOTE

The tamper dot on the Oxygen Hose Assembly shall be applied to the fitting in a manner which provides easy identification for inspection purposes when the seat kit is installed in the seat.

9-67. Assemble using index numbers of figures 9-18 through 9-35 as reference. Note and follow instructions enclosed in parentheses in description column. Lubricate latches (57, figure 9-21) with molykote X106 and lubricate separating type manual oxygen release connections with Type III MIL-G-27617. Apply Grade C or CV sealing compound to approximately 50% of the threads of all applicable parts indicated in the Illustrated Parts Breakdown. Prior to applying sealing compound, clean contaminants from threads using cloth moistened with water. Refer to Appendix B and ensure all nuts and fittings are properly torqued. Torque value for the inlet tubing connector on oxygen hose assembly shall be 80 to 100 in-lb. Torque value for the outlet tubing connector on oxygen hose assembly shall be 100 to 125 in-lb. After all nuts and fillings have been properly torqued, apply tamper dots to all oxygen fittings shown on figures 9-18 through 9-35. Use lacquer MIL-L-7178, Fed. Std. 595. Use any contrasting color when applying tamper dots to oxygen fittings.

Materials Required

Quantity	Description	Reference Number
As Required	Sealing Compound, Grade E/EV	MIL-S-22473
As Required	Sealing Compound, Grade C/CV	MIL-S-22473
As Required	Lacquer	MIL-L-7178 Fed. Std. 595
As Required	Lockwire	MS20995C32
As Required	Leak Detection Compound, Type I	MIL-L-25567
As Required	Lockwire	MS33540
As Required	Tape	MIL-T-27730
As Required	Cleaning Compound, Type II	MIL-C-81302
As Required	Krytox 240AC, Type III	MIL-G-27617 NIIN 00-961-8995
As Required	Bonding Agent	R-313

Support Equipment Required

Quantity	Description	Reference Number
1	Wrench (1)	26251-1-T91-1 (CAGE 53655)
1	Wrench (2)	21051T89-1 (CAGE 53655)
1	Wrench (3)	21051-5-T52-1 (CAGE 53655)

Pages 9-63 thru 9-68 - Deleted.

WARNING

Before use, inspect leak detection compound. Compound which is not clear and free from suspended material/sediment is considered contaminated and shall be disposed of. Compound exhibiting peculiar odors, such as acetone or alcohol, is considered contaminated and shall be disposed of.

9-68. REDUCER/MANIFOLD AND TUBE ASSEMBLY. Special instructions are as follows:

1. Do not assemble toggle arm assembly until partial testing is complete.

2. (Scott Only, figure 9-35) Install levers (21) in guide (23) with pins (22). Install seat (24) in guide (23) and thread assembly into body (32) with wrench (1).

3. (Scott Only, figure 9-35) Place plate (13), spring (12), spacer (11), and retainer (10) on pin (14), and thread retainer into sleeve (15) with wrench (2).

WARNING

To prevent possibility of injury, always conduct test while protected by shatterproof shield of transparent material.

4. Establish test set-up shown in figure 9-9 and connect high pressure and low pressure oxygen sources.

5. Install reducer in holding fixture P/N 68T767000-1. Ensure that reducer is fully screwed into holding fixture.

6. Close low pressure regulator and flow valve (1).

7. Close flow valve (2); open and adjust high pressure regulator until pressure gage (1) indicates source pressure of 250 psi.

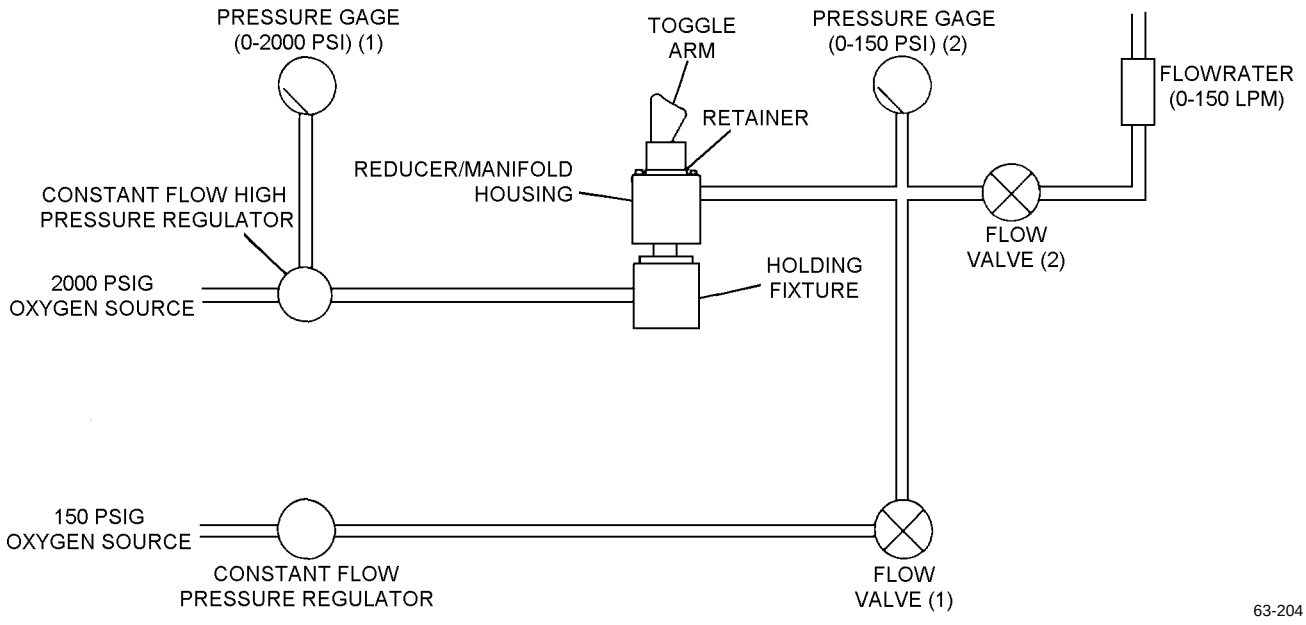


Figure 9-9. Reducer, Manifold and Tube Assembly Test

8. Adjust retainer until pressure gage (2) indicates 64 psi.

NOTE

Throughout following steps, reducer output pressure readings within tolerance of 45 to 80 psi will normally be obtained when low-source pressures are used. However, where high pressures and/or flow are involved, output pressure may not fall within 45 to 80 psi range. In these cases, spring in retainer should be replaced and previous steps repeated. Ensure that test source pressure is reduced to zero and test source pressure is removed via flow valve (2) before spring replacement is attempted.

9. Open and adjust flow valve (2) until flowrater indicates 20 LPM, while maintaining inlet pressure of 250 psi. Check that pressure gage (2) indicates 45 to 80 psi; if pressure is outside tolerance, adjust retainer until requirement is obtained.

10. Apply leak test compound around retainer, flange and housing at top of reducer/manifold and check for evidence of leakage. If leakage exists, check that screws securing flange to housing are tight. If leak persists, shut off high pressure oxygen source, bleed system via flow valve (2) and replace diaphragm. Repeat steps 4 through 6, inclusive.

11. Adjust flow valve (2) until flowrater indicates 90 LPM. Check that pressure gage (2) indicates 45 to 80 psi.

12. Increase source pressure until pressure gage (1) indicates 1800 psi. With 90 LPM flow, check that pressure gage (2) indicates 45 to 80 psi. Close flow valve (2) and reduce source pressure to 250 psi.

13. Complete assembly of reducer by assembling toggle arm assembly. On Scott Kits, use wrench (3) to start pin into toggle arm.

14. Using spring scale, actuate reducer toggle arm (pull force shall be applied 90 degrees to toggle arm); pull force to operate toggle arm shall be approximately 16 pounds; pressure gage (2) shall indicate 45 to 80 psi. Reset toggle arm.

NOTE

If pull force of 16 pounds is not obtained, adjust orientation of belleville spring(s) and add or remove spacer(s) until condition is obtained. Removing spacers decreases actuation force; adding spacers increases the force.

15. Increase source pressure to 1800 psig and actuate reducer/manifold toggle arm. Pressure gage (2) shall indicate 45 to 80 psi. Reset reducer toggle arm; open and close flow valve (2) to bleed pressure from system. Repeat procedure between 5 and 10 times.

16. Allow 2-minute wait and check that pressure gage (2) indicates zero. A pressure reading is an indication that an internal leak exists.

17. Eliminate leak by first adding spacer(s) beneath toggle arm. If leak persists, shut off high pressure oxygen source, bleed system and replace internal components behind flange of toggle arm (Rocket Jet) or behind sleeve (Scott).

18. Reduce source pressure reducer to 250 psig and close flow valve (2). Actuate reducer toggle arm and check that pressure gage (2) indicates 45 to 80 psi.

19. Reset reducer toggle arm; open and close flow valve (2) to bleed pressure. Allow 2-minute wait and check that pressure gage (2) indicates zero.

20. With source pressure of 250 psig, open and adjust flow valve (2) until flowrater indicates 20 LPM; pressure gage (2) should indicate 45 to 80 psi. Repeat procedure with flows of between 40 LPM and 90 LPM in 20 LPM increments; pressure gage (2) shall indicate 45 to 80 psi throughout.

21. Repeat step 18 with source pressure of 500 psig, 1000 psig and 1800 psig and flow rate of between 20 LPM and 90 LPM in 20 LPM increments at each pressure; pressure gage (2) shall indicate 45 to 80 psi throughout. Reset reducer toggle arm to off position.

22. Close flow valve (2) and maintain 1800 psig source pressure; open flow valve (1) and open and adjust constant flow pressure regulator until pressure gage (2) indicates 100 psi.

23. Close both pressure regulators and open flow valve (2) to relieve pressure.

24. Remove oxygen sources; then remove reducer from fixture.

9-69. ADJUSTMENT.

9-70. ADJUSTMENT OF LOCK ASSEMBLIES. If locks fail to release simultaneously, adjust as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Lacquer, Fed. Std. 595	MIL-L-7178

1. Close the RSSK-8. Ensure the upper and lower containers are properly mated and the release handle is full down and in the locked position.

2. Visually check for full lid latch engagement with lid lock slides by observing through the inspection slots in lower container (figure 9-10).

NOTE

If lock slide adjustment is necessary, perform steps 6a thru 6c.

3. Slowly pull the release handle and check for simultaneous disengagement of lid latches from lock slides.

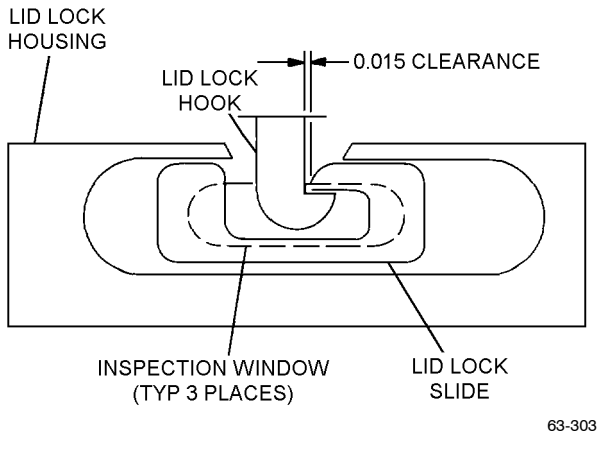


Figure 9-10. Lock Slide and Lid Latch Engagement

4. Remove release handle from multirelease assembly and lift upper container off lower container.

5. Visually inspect lock assemblies for full retraction of lid lock slides.

NOTE

If lock slide adjustment is necessary, perform steps 6a through 6c.

6. To adjust the lock slide engagement, proceed as follows:

a. To decrease lock slide engagement, loosen the locknut at the lock assembly and back the adjusting nut away from the lock assembly the desired amount (figure 9-11).

b. To increase lock slide engagement, loosen the locknut at the lock assembly and turn the adjusting nut towards the lock assembly (figure 9-11).

c. When desired engagement and/or timing is achieved, tighten locknut against adjusting nut.

7. Insert two foam rubber blocks or a folded LR-1 liferaft with survival equipment into lower container.

NOTE

Foam rubber blocks shall be of sufficient height to exert outward pressure when squeezed, thus ensuring that the RSSK-8 upper and lower containers separate on release handle actuation.

8. Repeat steps 1 and 2.

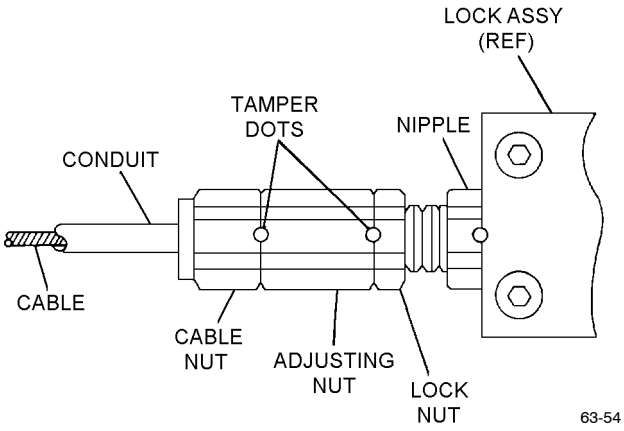
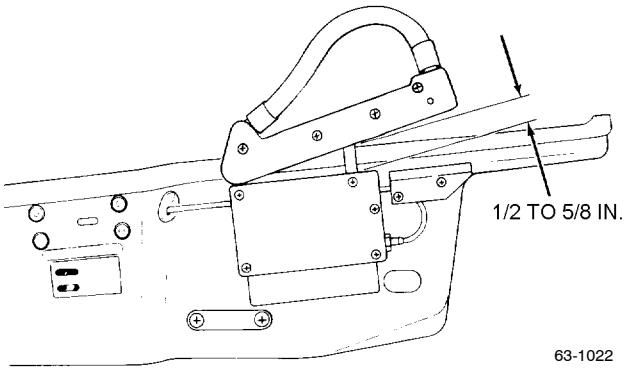


Figure 9-11. Lock Slide Adjustment

9. Slowly pull the release handle to a point where simultaneous disengagement of lid latches from lock slides is achieved. Stop further travel of release handle at this point. Using a scale, measure the separation of handle to multi-release housing along the geometric centerline of the actuator link. All lid latches shall disengage and upper and lower containers shall separate when release handle separation is 1/2 to 5/8 inch.



Step 9 - Para 9-70

10. If lock slide adjustment is necessary, perform steps 6a through 6c.

11. Open the RSSK-8. Ensure all release system hardware is properly tightened.

12. Apply tamper dots on locknuts and adjusting nuts (figure 9-11). Use any contrasting color when applying tamper dots to locknuts and adjusting nuts.

13. Apply clear tape around adjusting nuts and locknuts, ensuring tamper dots are covered.

14. Apply clear tape to the inspection slots of the lower container.

9-71. ADJUSTMENT OF OXYGEN RELIEF VALVE PRESSURE. To adjust the RSSK-8 oxygen relief valve, proceed as follows:

1. Perform functional check in accordance with paragraph 9-41, steps 10, 11, 12 and 13.

2. If relief valve does not unseat between 120 to 140 psi, reduce pressure to zero and remove relief valve. See figure 9-21 index item 29 for Rocket Jet Kit and figure 9-33 index item 34 for Scott Kit.

3. Loosen hex locknut (figure 9-12) using the relief valve adjustment tool, (paragraph 9-83).

NOTE

Turn in incremental adjustments of 1/2 ± 1/4.

4. Adjust valve unseating pressure, using relief valve adjustment tool, by turning the three prong pressure nut clockwise to increase relief valve pressure and counterclockwise to decrease (figure 9-12).

5. Tighten hex locknut.

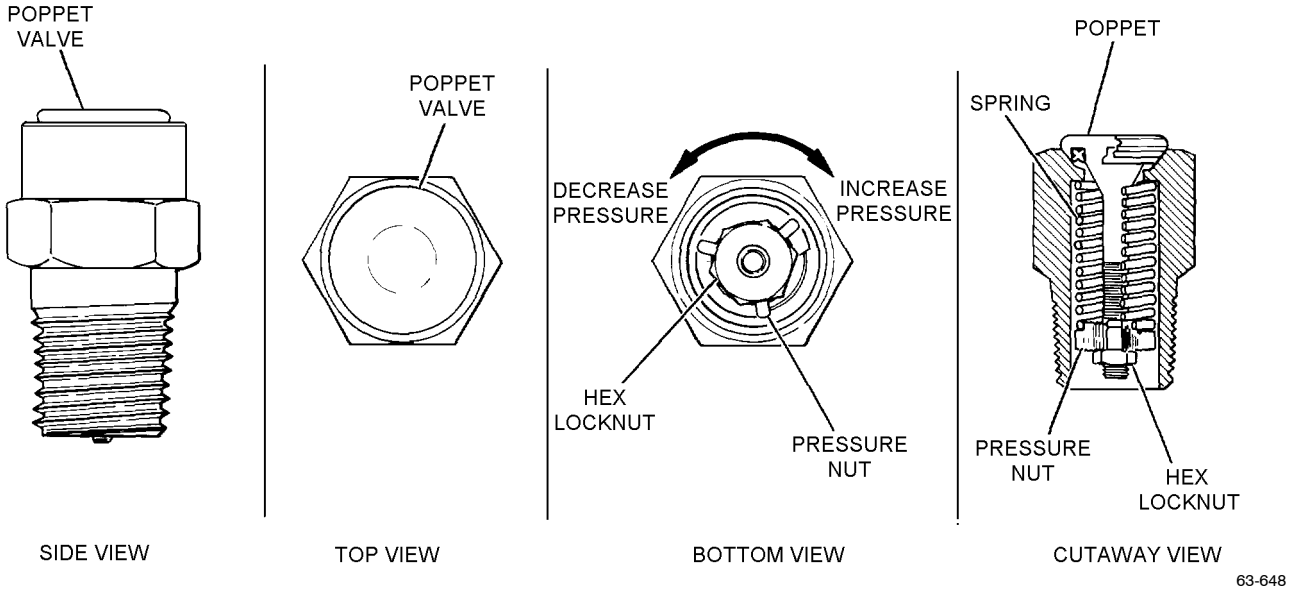


Figure 9-12. Relief Valve (Typical)

6. Install relief valve and re-check pressures.

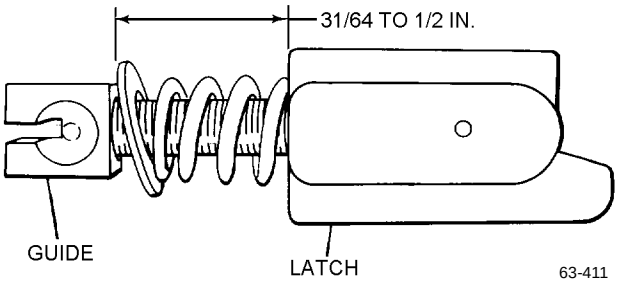
9-72. ADJUSTMENT OF RELEASE HANDLE ASSEMBLY. To adjust the release handle assembly, proceed as follows:

NOTE

Latch mechanism depicted below is a Scott assembly; however, adjustment procedures for Rocket Jet and Scott Assemblies are identical.

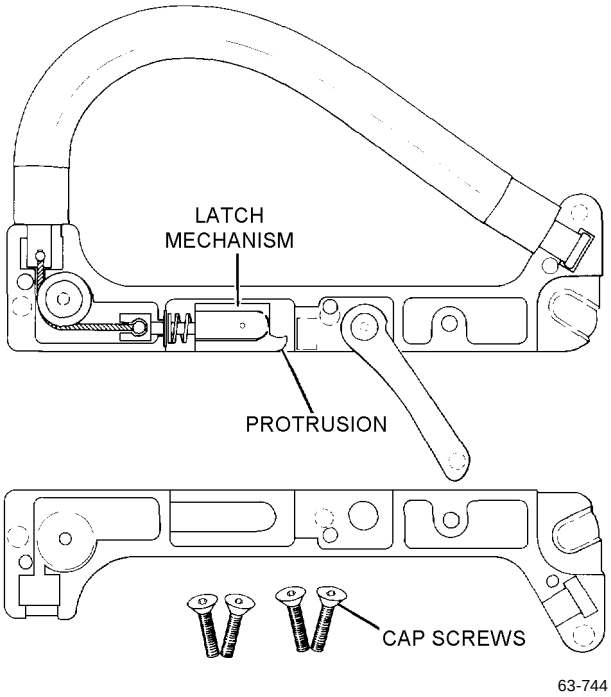
1. Disassemble release handle assembly and remove latch, spring, washer and guide.

2. Adjust position of latch on threaded shaft of guide so that forward face of latch is located between 31/64 to 1/2-inch from aft face of guide head.



Step 2 - Para 9-72

3. Assemble handle assembly ensuring that protrusion on latch mechanism is oriented as shown.



Step 3 - Para 9-72

4. Apply tension to handle and ensure that latch recedes smoothly and returns to extended position when tension is relieved.

5. Rotate link assembly in handle and ensure that it pivots freely.

9-73. (SCOTT) ADJUSTMENT OF EMERGENCY OXYGEN ACTUATOR CABLES. To adjust the cables proceed as follows:

1. To adjust the automatic cable, loosen four screws and nuts which hold the oxygen cylinder to the lid (figure 9-13).

2. Position oxygen cylinder so that minimum slack exists in automatic cable and toggle arm is not under cable tension.

3. To adjust manual cable, loosen insert so that minimum slack exists in manual cable and toggle arm is not under cable tension.

4. Alternately operate emergency oxygen actuator via automatic lanyard and manual release. Check that automatic lanyard separates and toggle arm is pulled into actuated position by cables.

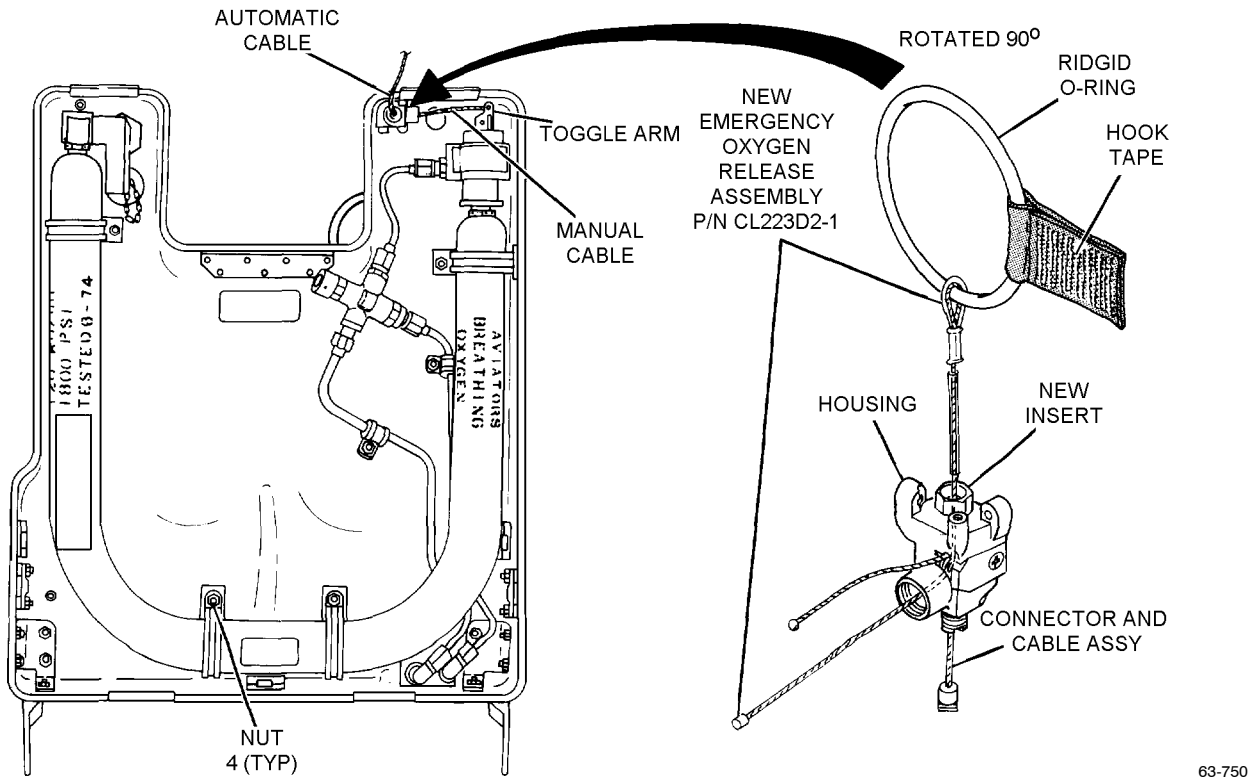


Figure 9-13. Adjustment of Actuator

9-74. (ROCKET JET) ADJUSTMENT OF EMERGENCY OXYGEN ACTUATOR CABLES. (figure 9-24 and 9-25). To adjust the actuator cables, proceed as follows:

1. Position upper adjuster (10, figure 9-24; 4, figure 9-25) within housing (12, figure 9-24; 15, figure 9-25) so that adjuster protrudes 10/64 to 11/32 above top of housing after nut (11, figure 9-24; 3, figure 9-25) has been tightened.

2. Position lower adjuster (10, figure 9-24; 5, figure 9-25) within housing so that minimum slack exists in lower actuator release cable (5, figure 9-24; 12, figure 9-25). Ensure there is sufficient slack in cable so that toggle arm (CAM) (4, figure 9-23) is not under cable tension.

3. Ensure that lower actuator release link (4, figure 9-24; 11, figure 9-25) is engaged with link (16, figure 9-25), inside lower adjuster (10, figure 9-24; 5, figure 9-25).

4. Stake pull-type release pin (9, figure 9-24; 6, figure 9-25) in position.

5. Alternately operate emergency oxygen actuator via automatic lanyard (1, figure 9-21) and manual release (1, figure 9-25). Check that link (4, figure 9-24; 11, figure 9-25) withdraws from respective adjuster and toggle arm is pulled into actuated position by cables.

NOTE

On those kits having separate manual releases, check that link (8, figure 9-25) withdraws from respective adjuster and toggle arm is pulled into actuated position by cables.

Section 9-7. Fabrication

9-75. GENERAL.

9-76. This section contains instructions for fabrication of tools and components that can be manufactured by local maintenance activities.

9-77. TOGGLE RESET TOOL. To fabricate a toggle reset tool, proceed as follows:

1. Modify a standard slot screwdriver in accordance with figure 9-14.

9-78. DROPLINE. To fabricate a dropline, proceed as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Webbing, 3/4-Inch Yellow	MIL-W-5625 NIIN 00-753-6951
As Required	Thread, Nylon, Type I, Class A, Size FF, Color: White	V-T-295 NIIN 00-267-3024

1. Lay out webbing and position identification yarn on top before proceeding.

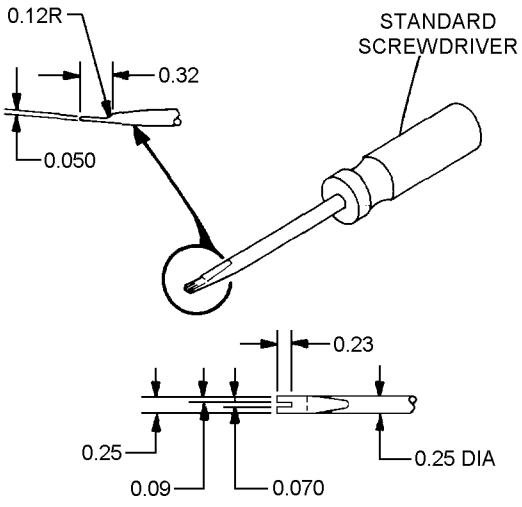


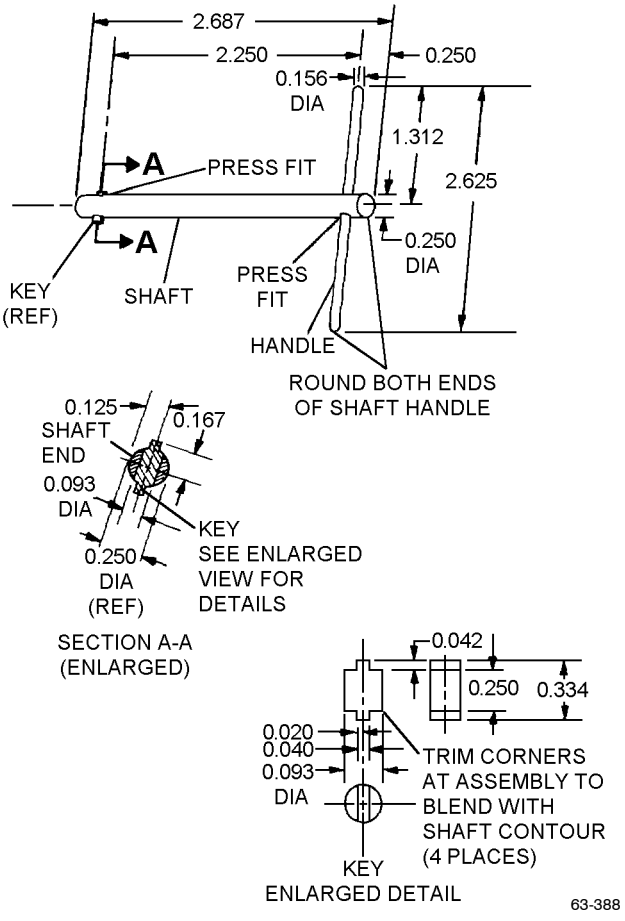
Figure 9-14. Toggle Reset Tool

2. Construct a dropline in accordance with figure 9-15.

3. Sear exposed ends of webbing.

4. All stitching shall be Type 301, ASTM-D-6193, 8 to 10 stitches per inch, and backstitch 1/2-inch minimum.

9-79. T-WRENCH. To fabricate a T-wrench, proceed as follows:



Step 1 - Para 9-79

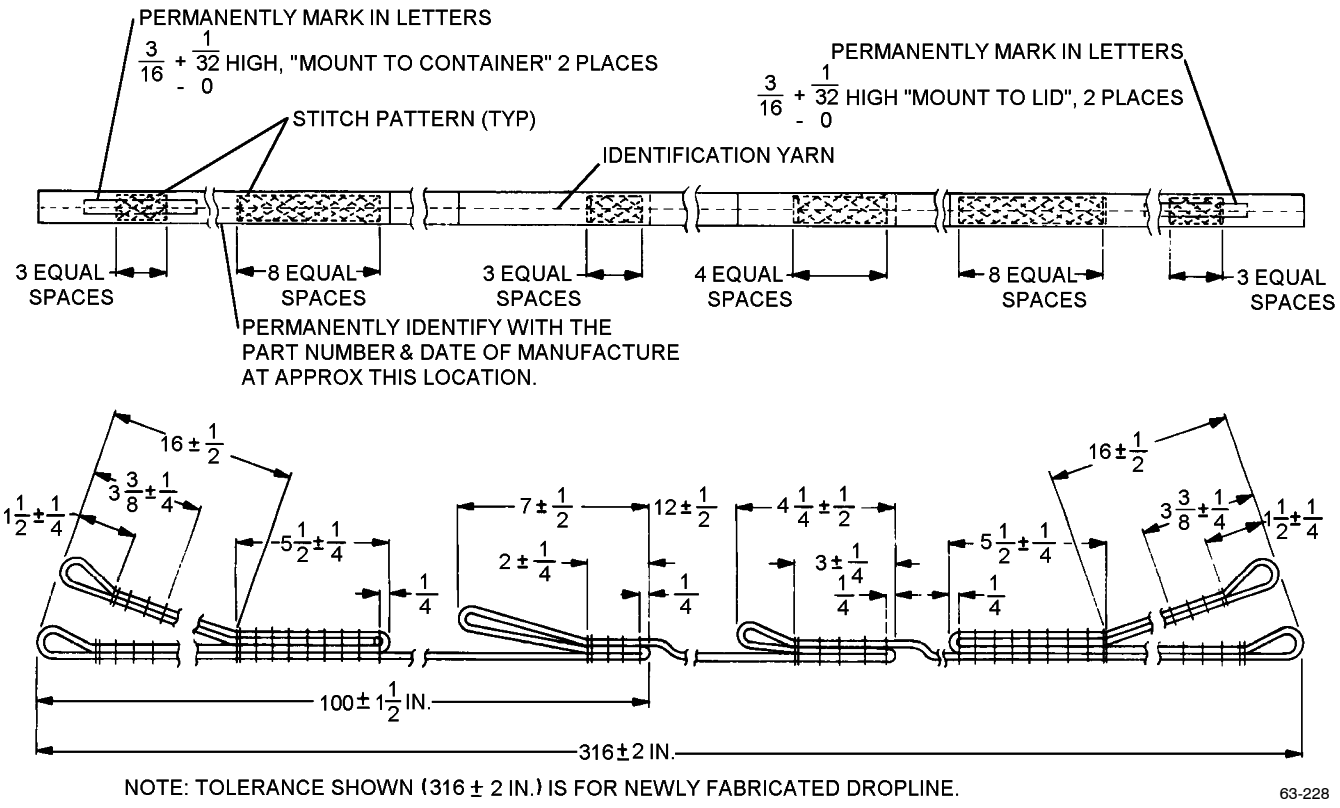


Figure 9-15. Dropline

1. Fabricate wrench from steel as shown.

9-80. BOOT. To fabricate a boot, proceed as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Nylon	MIL-C-8135 or MIL-C-18395
As Required	Thread, Nylon, Type I, Class A, Size FF, Color: White	V-T-295 NIIN 00-267-3024

1. Construct a boot in accordance with figure 9-16.

2. Sear exposed ends of nylon and avoid sharp edges.

3. All stitching shall be Type 301, ASTM-D-6193, 8 to 10 stitches per inch, and backstitch 1/2 inch minimum.

9-81. GUIDE BRACKET GAGE. To fabricate a guide bracket gage, proceed as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Drill or Steel Rod (.377-Inch Dia or Greater) (4.75 ± 0.75 Inch Length)	—

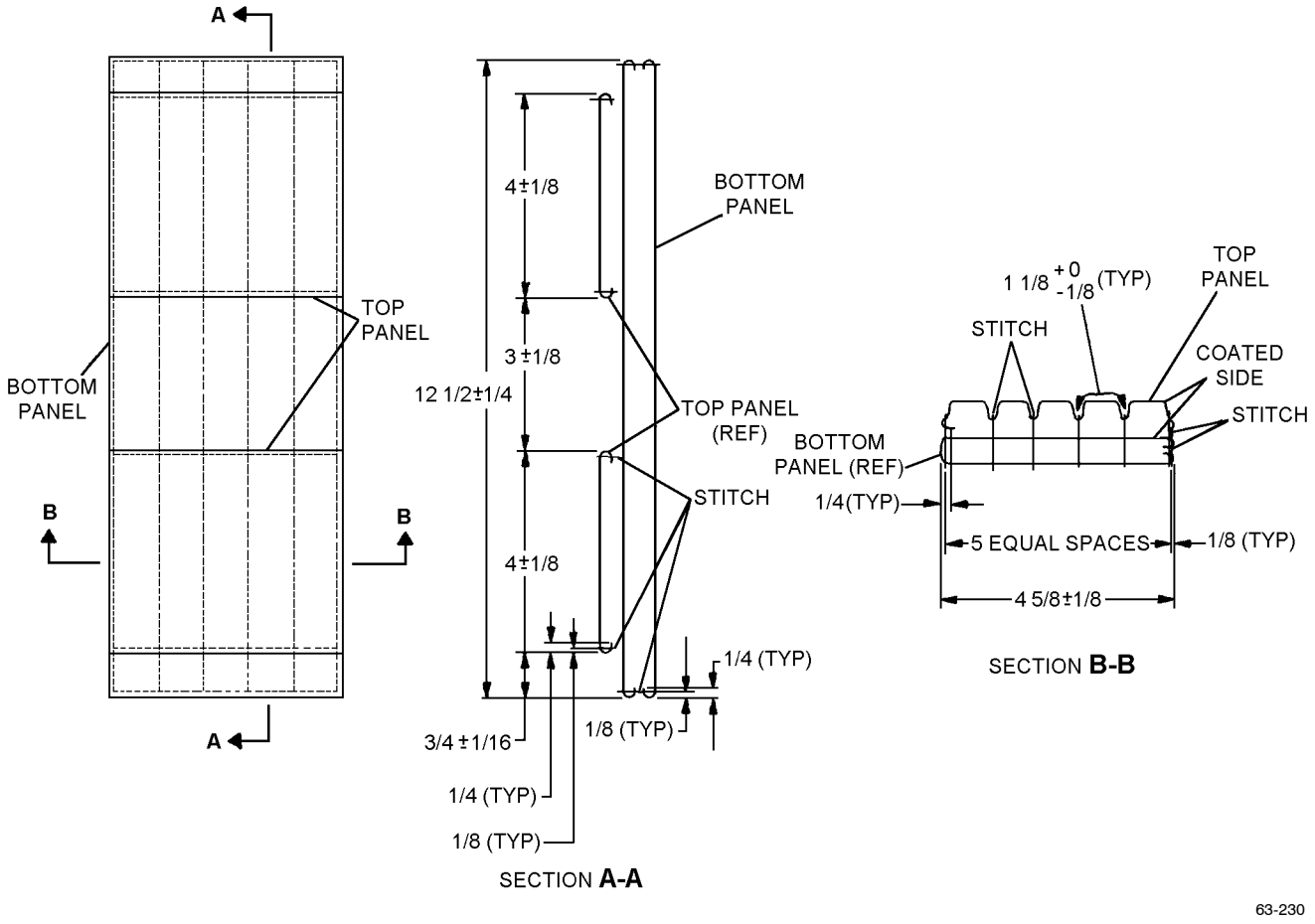


Figure 9-16. Boot

1. Turn down one end of rod to 0.375 +0.001, -0.000 inch diameter for 0.50-inch length. Mark/Scribe 0.375 on unworked rod surface adjacent to turndown (figure 9-17).

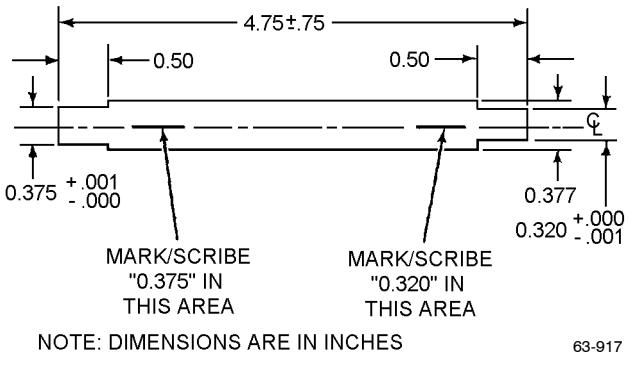


Figure 9-17. Guide Bracket Gage

2. Turn down opposite end of rod to 0.320 +0.000, -0.001 inch diameter for 0.50-inch length. Mark/Scribe 0.320 on unworked rod surface adjacent to turndown (figure 9-17).

9-82. BRAKE RIDER'S STRAP. To fabricate a brake rider's strap proceed as follows:

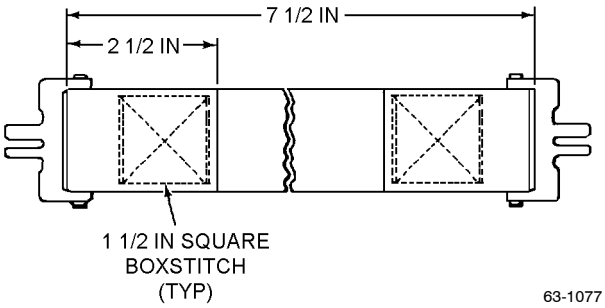
Materials Required

Quantity	Description	Reference Number
2	Release Assembly Lapbelt Fitting	015-11366-1 (CAGE 99449)
24 Inches	Webbing, Nylon, Type XXVII, 1 23/32 Inches Wide	MIL-W-4088, NIIN 00-530-1489
As Required	Thread, Nylon, Type II, Class A, Size 6	V-T-295, NIIN 00-559-5211

1. Cut a piece of nylon webbing 24 inches in length.

2. Sear exposed ends of webbing.

3. Secure fittings with 1 1/2-inch square box stitch. All stitching shall be Type 301, ASTM-D-6193, 4 to 6 stitches per inch, and backstitch 1/2 inch minimum.



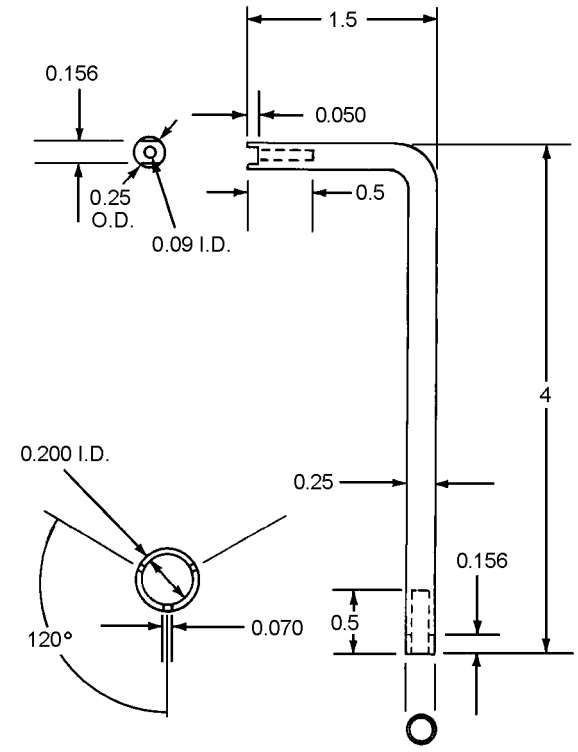
Step 3 - Para 9-82

9-83. RELIEF VALVE ADJUSTMENT TOOL. To fabricate a relief valve adjustment tool, proceed as follows:

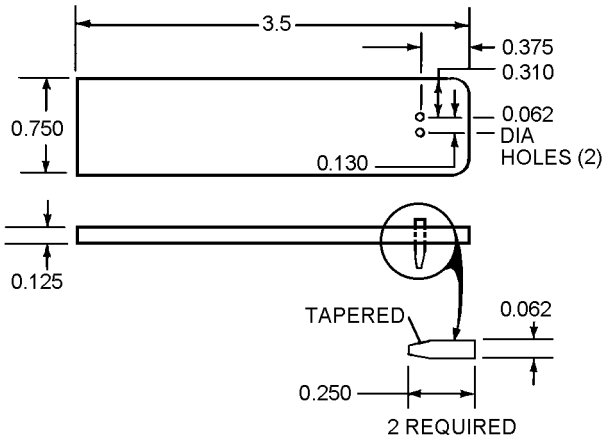
Materials Required

Quantity	Description	Reference Number
As Required	Mild Steel or Brass	—

1. Fabricate relief valve adjustment tool from mild steel or brass as shown.



THREE PRONG PRESSURE NUT ADJUSTABLE TYPE



CAP ADJUSTABLE TYPE

63-3053

Step 1 - Para 9-83

9-84. ALTERNATE SEAT CUSHION FOAM. To fabricate a replacement foam cushion for the Seat Survival Kit, proceed as follows:

Materials Required

Quantity	Description	Reference Number
1	Disposable Razor Knife	—
As Required	CONFOR Foam 1 inch thick,	
	Green	CF-47100 NIIN 01-370-6616
	Blue	CF-45100 NIIN 01-449-1789

1. Remove old foam from seat cushion cover.

2. Use the old foam as a template, place old foam on top of CONFOR foam.

NOTE

Ensure bulk CONFOR foam is large enough to make the new foam cushion one solid piece.

3. Trace around old foam onto the CONFOR foam, including hole for observing the emergency oxygen gage.

4. Cut CONFOR foam along the traced line.

5. Install new foam cushion into seat cushion cover. Ensure seat cushion cover fits cushion foam snugly, but does not cause bowing or excessively loose condition.

6. Write date installed on foam with permanent marker so it can be easily seen.

Section 9-8. Illustrated Parts Breakdown

9-85. GENERAL.

9-86. This section lists and illustrates the assemblies and detail parts of the RSSK-8 survival kit assembly as manufactured by Rocket Jet Engineering Corp. and Scott Aviation Corp.

9-87. The Illustrated Parts Breakdown should be used during maintenance when requisitioning and identifying parts.

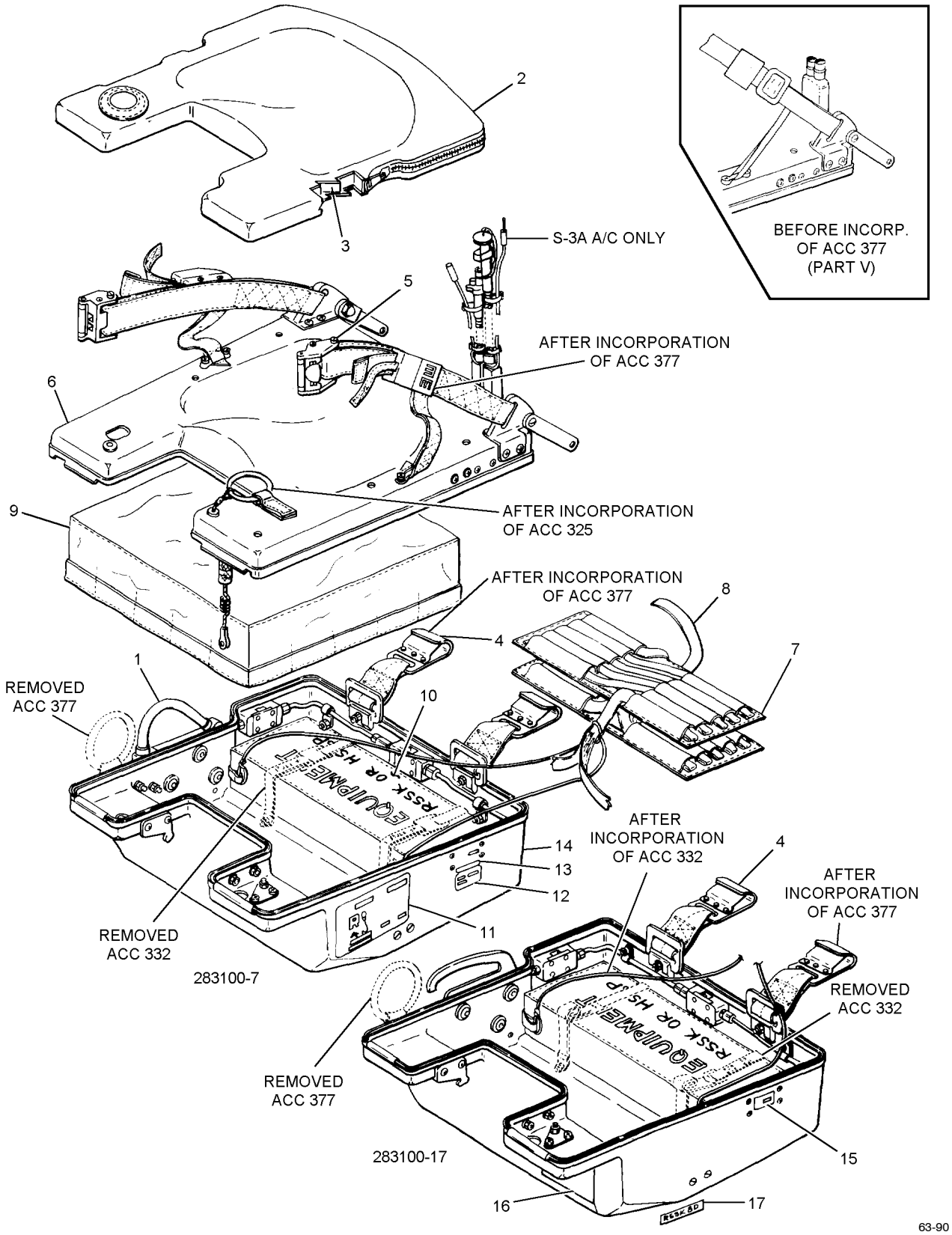


Figure 9-18. Rigid Seat Survival Kit-8A (Rocket Jet P/N CL223D999-1 and CL223D999-2)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
9-18	CL223D999-1	SURVIVAL KIT ASSEMBLY	1	A
	CL223D999-2	SURVIVAL KIT ASSEMBLY	1	B
-1	347170-1	. HANDLE ASSEMBLY (See Figure 9-19 for BKDN)	1	A
	7110015	. HANDLE ASSEMBLY (See Figure 9-20 for BKDN)	1	B
	283300-7	. CUSHION ASSEMBLY	1	
-2	283310-7	. . COVER ASSEMBLY	1	
-3	283320-7	. . CUSHION FILLER ASSEMBLY (Note 1)	1	
-4	1195AS106-1	. PARACHUTE RETENTION STRAP (KD)	2	
	224C300-1	. PARACHUTE RETENTION STRAP (30941) (After ACC 377)	2	
-5	015-11365-1	. RELEASE ASSEMBLY, Lapbelt (99449) (Note 2)	2	
-6	283200-7	. CONTAINER ASSEMBLY, Upper (See Figure 9-21 for BKDN)	1	A
	283200-17	. CONTAINER ASSEMBLY, Upper (See Figure 9-21 for BKDN)	1	B
	283490	. DROPLINE ASSEMBLY	1	
-7	283492	. . BOOT ASSEMBLY	2	
-8	283491	. . DROPLINE ASSEMBLY	1	
-9	36D1321	. COVER, Protective raft (80206)	1	
-10	68A77D4-1	. EQUIPMENT BAG (80206)	1	
-11	283470-7	. NAMEPLATE	1	A
-12	283472	. DECAL, Visual lock	3	A
-13	99112	. DECAL, Manual lid unlock	3	A
-14	283100-7	. CONTAINER ASSEMBLY, Lower (See Figure 9-19 for BKDN)	1	A
	283100-17	. CONTAINER ASSEMBLY, Lower (See Figure 9-20 for BKDN)	1	B
-15	850	. MYLAR TAPE, Clear	3	B
-16	6999002-1	. NAMEPLATE	1	B
-17	1195AS116-1	. DECAL RSSK-8D (KD)	1	
	234C500-1	. DECAL RSSK-8D (30941) (After ACC 377)	1	
	234A100-1	KIT, Retrofit ACC 377 (KD) (30941)	1	

Notes:
1. Alternate cushion CONFOR foam has been authorized. See Fabrication, Section 9-7.
2. When replacing lapbelt assembly, apply sealing, locking, and retaining compound, MIL-S-22473, to shoulder screws.

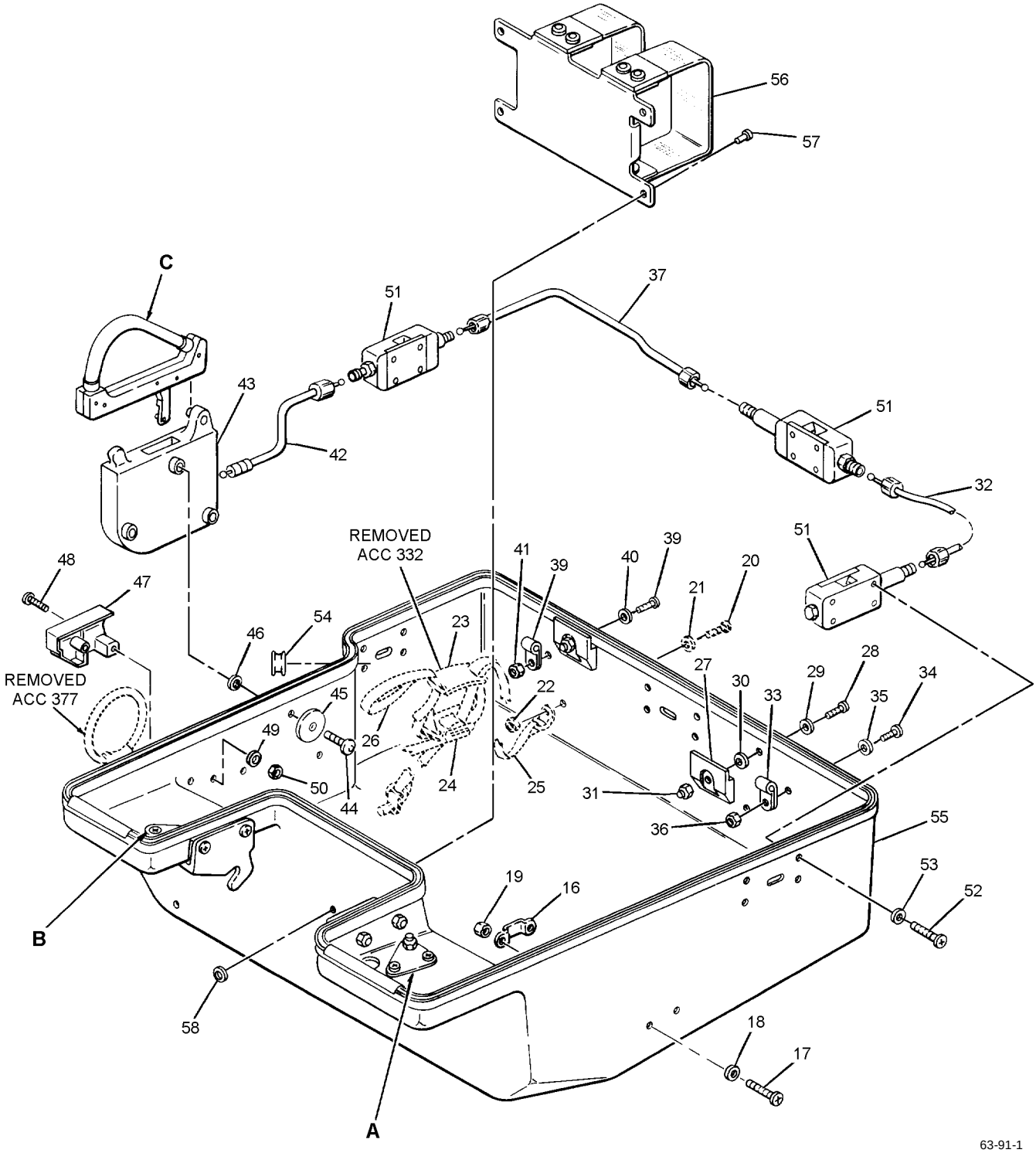


Figure 9-19. Lower Container Assembly (Rocket Jet P/N 283100-7) and Handle Assembly (Rocket Jet P/N 347170-1) (Sheet 1 of 2)

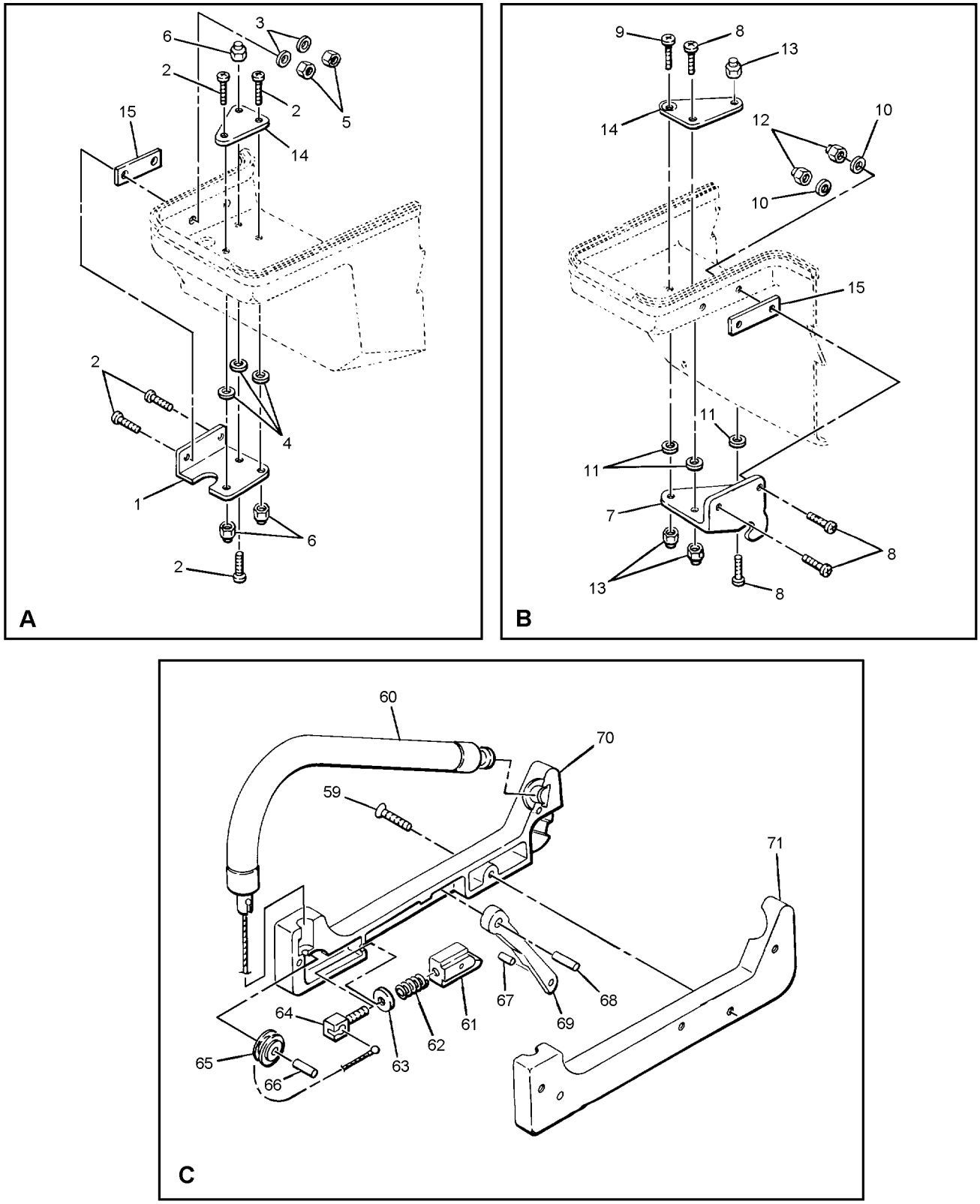


Figure 9-19. Lower Container Assembly (Rocket Jet P/N 283100-7) and Handle Assembly (Rocket Jet P/N 347170-1) (Sheet 2 of 2)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
9-19	283100-7	LOWER CONTAINER ASSEMBLY	REF	
		(See figure 9-18 for NHA)		
-1	1195AS102-1	. BRACKET GUIDE, Left (KD)	1	
	234D410-11	. BRACKET GUIDE, Left (30941)	1	
		(After ACC 377)		
		(ATTACHING PARTS)		
-2	S51958-64	. SCREW (10-32 x 0.62) (KD)	5	
-3	AN960PD10L	. WASHER (KD)	2	
-4	1195AS105-1	. WASHER SHIM, Laminated (KD)	3	
	234C412-13	. WASHER SHIM, Laminated (30941)	3	
-5	MS21042-3	. NUT, Self-locking (KD)	2	
-6	22K1-02	. NUT, Cap self-locking (KD)	3	
		---*---		
-7	1195AS103-1	. BRACKET GUIDE, Right (KD)	1	
	234D410-13	. BRACKET GUIDE, Right (30941)	1	
		(After ACC 377)		
		(ATTACHING PARTS)		
-8	MS51958-64	. SCREW (10-32 x 0.62) (KD)	4	
-9	MS24693C272	. SCREW, Flat head (KD)	1	
		(100° Csk 10-32 x 0.50)		
-10	AN960PD10L	. WASHER (KD)	2	
-11	1195AS105-1	. WASHER SHIM, Laminated (KD)	3	
	234C412-13	. WASHER SHIM, Laminated (30941)	3	
-12	MS21042-3	. NUT, Self-locking (KD)	2	
-13	22K1-02	. NUT, Cap self-locking (KD)	3	
		---*---		
-14	1195AS101-1	. BACKPLATE, Guide bracket (KD)	2	
	102C401-15	. BACKPLATE, Guide bracket (30941)	2	
		(After ACC 377)		
-15	1195AS104-1	. SHIM PLATE, Laminated (KD)	2	
	234C412-11	. SHIM PLATE, Laminated (30941)	2	
		(After ACC 377)		
-16	365700-1	. BRACKET, Footman	2	
		(ATTACHING PARTS)		
-17	COML	. SCREW, Cap Button head	4	
		(6-32 UNC-3A x 0.38)		
-18	AN960C6L	. WASHER	4	
-19	22K2-62	. NUT, Hex (72962)	4	
		---*---		

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
9-19	365718	. STRAP ASSEMBLY, Tiedown rucksack (Before ACC 332) (ATTACHING PARTS)	2	
-20	COML	. SCREW, Cap button head (6-32 UNC-3A x 0.38)	2	
-21	AN960C10L	. WASHER	2	
-22	22K2-62	. NUT, Hex (72962) ---*---	2	
-23	308188	. . PROTECTOR, Leather (Note 1)	1	
-24	308187	. . BUCKLE ASSEMBLY (Note 1)	2	
-25	COML	. . WEBBING (MIL-W-5625E, WN 133, Cond. U) (Note 1)	2	
-26	COML	. . WEBBING (MIL-W-4088, Type I, Cond. U, Aviation Yellow) (33538) (Note 1)	1	
-27	1195AS107-1	. CLIP (KD)	2	
	234C431-11	. CLIP (30941) (After ACC 377)	2	
-28	MS35206-246	. SCREW (8-32 x 0.62) (KD)	2	
-29	AN960PD8L	. WASHER (KD)	4	
-30	1195AS108-1	. SPACER (KD)	2	
	224B432-11	. SPACER (30941)	2	
-31	22K1-82	. NUT, Cap self-locking (KD) ---*---	2	
-32	283116	. CABLE ASSEMBLY, LH (ATTACHING PARTS)	1	
-33	MS25281-F2	. CLAMP	1	
-34	COML	. SCREW, Cap button head (10-32 UNC-3A x 0.50)	1	
-35	AN960C6L	. WASHER	1	
-36	22K2-62	. NUT, Hex (72962) ---*---	1	
-37	283117	. CABLE ASSEMBLY, Center (ATTACHING PARTS)	1	
-38	MS25281-F2	. CLAMP	1	
-39	COML	. SCREW, Cap button head (6-32 UNC-3A x 0.50)	1	
-40	AN960C6L	. WASHER	1	
-41	22K2-62	. NUT, Hex (72962) ---*---	1	
-42	283118	. CABLE ASSEMBLY, RH	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
9-19-43	283500	. MULTI-RELEASE ASSEMBLY ..... (See figure 9-26 for BKDN) (ATTACHING PARTS)	1	
-44	COML	. SCREW, Cap button head ..... (10-32 UNF-3A x 0.50)	2	
-45	AN970-3	. WASHER	3	
-46	AN960C10	. WASHER ..... ---*---	3	
-47	1195AS113-1	. HANDLE PROTECTOR BRACKET (KD)	1	
	234C450-11	. HANDLE PROTECTOR BRACKET (30941) ..... (After ACC 377) (ATTACHING PARTS)	1	
-48	MS35206-232	. SCREW (6-32 x 0.75) (KD)	2	
-49	AN960PD6L	. WASHER (KD)	2	
-50	22K1-62	. NUT, Cap (KD) ..... ---*---	2	
-51	283130	. LOCK ASSEMBLY, Lid LH ..... (See figure 9-28 for BKDN)	1	
	283140	. LOCK ASSEMBLY, Lid RH ..... (See figure 9-28 for BKDN)	1	
	283150	. LOCK ASSEMBLY, Lid center ..... (See figure 9-28 for BKDN) (ATTACHING PARTS)	1	
-52	COML	. SCREW, Cap button head ..... (10-32 UNF-3A x 0.50)	4	
-53	AN960C10L	. WASHER ..... ---*---	4	
-54	MS35490-25	. GROMMET	1	
-55	283101-7	. CONTAINER ASSEMBLY	1	
-56	CL204D2-1	. BRACKET ASSEMBLY (80206) ..... (ATTACHING PARTS)	1	
-57	MS204704A-7	. RIVET	4	
-58	AN960PD-4	. WASHER ..... ---*---	4	
	347170-1	HANDLE ASSEMBLY ..... (See figure 9-18 for NHA)	REF	
-59	AN507C632-RIO	. SCREW	4	
-60	283557	. HANDLE ASSEMBLY, Molded	1	
-61	327554	. LATCH	1	
-62	327553	. SPRING	1	
-63	AN960C3	. WASHER	1	
-64	327555	. GUIDE	1	
-65	327556	. PULLEY, Guide	1	
-66	99003-6	. PIN	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
9-19	195018	. LINK ASSEMBLY, Disc actuator	1	
-67	99007-1	. . PIN (Press fit)	1	
-68	99002-6	. . PIN (Press fit)	1	
-69	195019	. . LINK, Disc actuator	1	
-70	347171-1	. HANDLE HALF, LH	1	
-71	347171-2	. HANDLE HALF, RH	1	
	Notes: 1. Removed by ACC 332.			

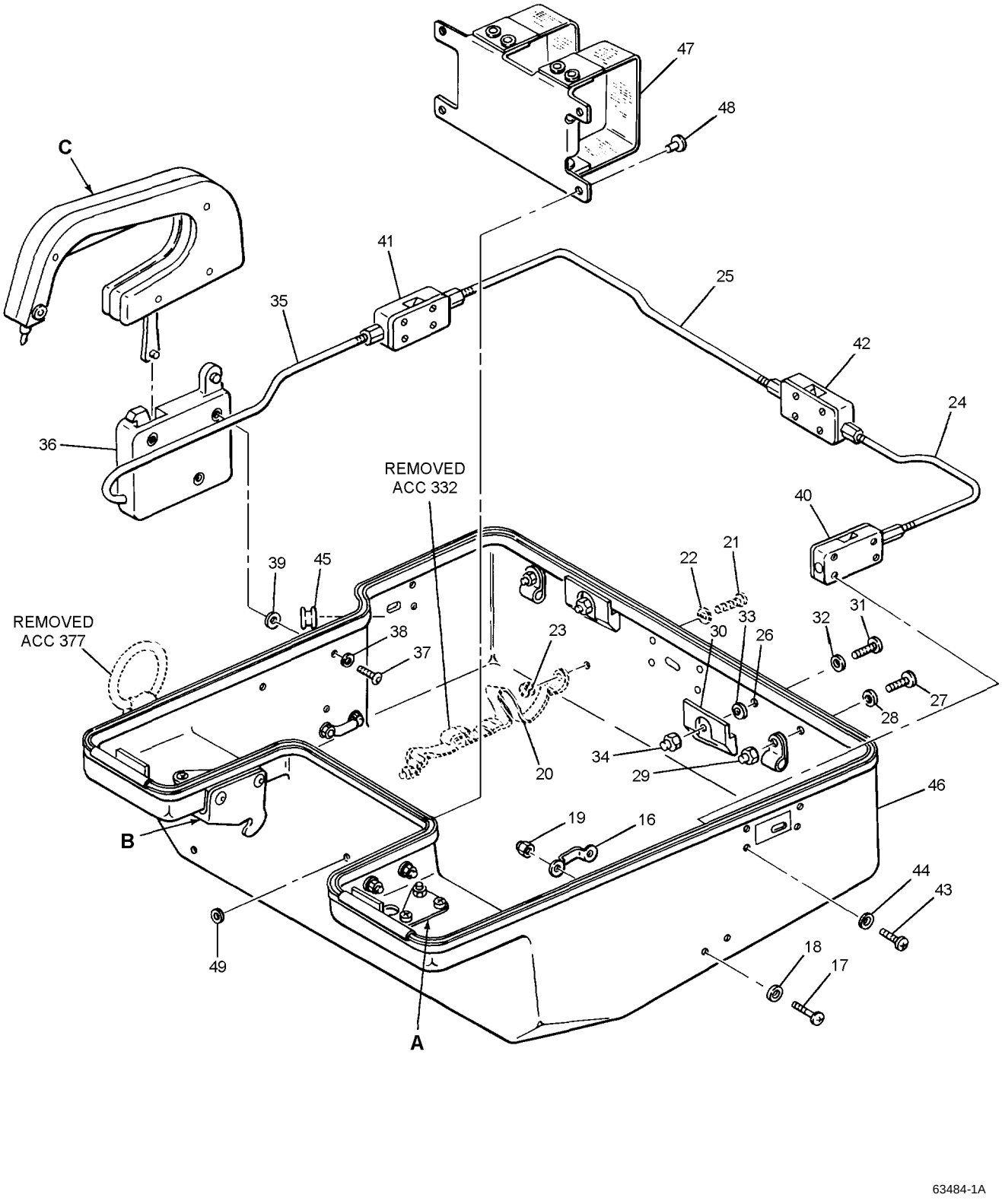


Figure 9-20. Lower Container Assembly (Rocket Jet P/N 283100-17) and Handle Assembly (Rocket Jet P/N 7110015) (Sheet 1 of 2)

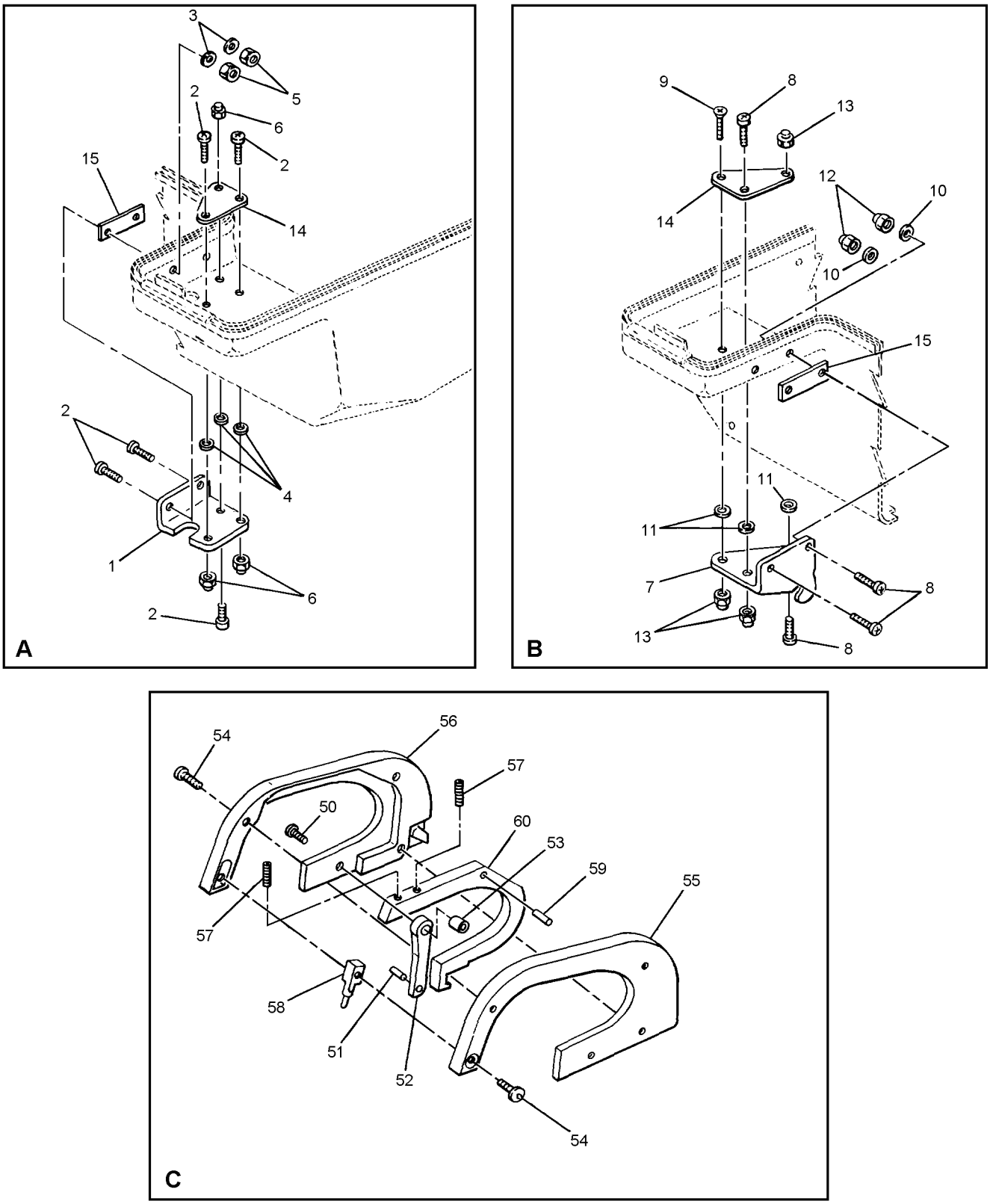


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Figure 9-20. Lower Container Assembly (Rocket Jet P/N 283100-17) and Handle Assembly (Rocket Jet P/N 7110015) (Sheet 2 of 2)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
9-20	283100-17	LOWER CONTAINER ASSEMBLY ..... (See figure 9-18 for NHA)	REF	
-1	1195AS102-1	. BRACKET GUIDE, Left (KD)	1	
	234D410-11	. BRACKET GUIDE, Left (30941) ..... (After ACC 377) (ATTACHING PARTS)	1	
-2	MS51958-64	. SCREW (10-32 x 0.62) (KD)	5	
-3	AN960PD10L	. WASHER (KD)	2	
-4	1195AS105-1	. WASHER SHIM, Laminated (KD)	3	
	234C412-13	. WASHER SHIM, Laminated (30941)	3	
-5	MS21042-3	. NUT, Self-locking (KD)	2	
-6	22K1-02	. NUT, Cap self-locking (KD) ..... ---*---	3	
-7	1195AS103-1	. BRACKET GUIDE, Right (KD)	1	
	234D410-13	. BRACKET GUIDE, Right (30941) ..... (After ACC 377) (ATTACHING PARTS)	1	
-8	MS51958-64	. SCREW (10-32 x 0.62) (KD)	4	
-9	MS24693C272	. SCREW, Flat head (KD) ..... (100° Csk 10-32 x 0.50)	1	
-10	AN960PD10L	. WASHER (KD)	2	
-11	1195AS105-1	. WASHER SHIM, Laminated (KD)	3	
	234D412-13	. WASHER SHIM, Laminated (30941)	3	
-12	MS21042-3	. NUT, Self-locking (KD)	2	
-13	22K1-02	. NUT, Cap self-locking (KD)	3	
-14	1195AS101-1	. BACK PLATE, Guide bracket	2	
	102C401-15	. BACK PLATE, Guide bracket (30941) ..... (After ACC 377)	2	
-15	1195AS104-1	. SHIM PLATE Laminated	2	
	234C412-11	. SHIM PLATE, Laminated (30941) ..... (After ACC 377) ---*---	2	
-16	365700-1	. BRACKET, Footman ..... (ATTACHING PARTS)	2	
-17	COML	. SCREW, Cap button head ..... (6-32 UNC-3A x 0.38)	4	
-18	AN960C6L	. WASHER	4	
-19	22K2-62	. NUT, Hex (72962) ..... ---*---	4	
-20	741130	. STRAP ASSEMBLY, Tiedown rucksack ..... (Before ACC 332) (ATTACHING PARTS)	2	
-21	COML	. SCREW, Cap button head ..... (6-32 UNC-3A x 0.38) (Before ACC 332)	2	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
9-20-22	AN960C6L	. WASHER (Before ACC 332)	2	
-23	22K2-62	. NUT, Hex (72962) (Before ACC 332)	2	
-24	7110027	. CABLE ASSEMBLY, LH	1	
-25	7110028	. CABLE ASSEMBLY, Center (ATTACHING PARTS FOR INDEX NOS. 24 AND 25)	1	
-26	MS25281-F2	. CLAMP (Note 1)	2	
	MS25281-F3	. CLAMP (Note 1)	2	
-27	MS35207-262	. SCREW (Note 1)	2	
-28	AN960PD10L	. WASHER (Note 1)	2	
-29	22K1-02	. NUT (Note 1) ---*---	2	
-30	1195AS107-1	. CLIP (KD)	2	
	234C431-11	. CLIP (30941) (After ACC 377) (ATTACHING PARTS)	2	
-31	MS35206-246	. SCREW (8-32 x 0.62) (KD)	2	
-32	AN960PD8L	. WASHER (KD)	4	
-33	1195AS108-1	. SPACER (KD)	2	
	224B432-11	. SPACER (30941)	2	
-34	22K1-82	. NUT, Cap self-locking (KD) ---*---	2	
-35	7110030	. CABLE ASSEMBLY, RH	1	
-36	365705-1	. MULTI-RELEASE ASSEMBLY (See figure 9-27 for BKDN) (ATTACHING PARTS)	1	
-37	COML	. SCREW, Cap button head (10-32 UNF-3A x 0.50)	3	
-38	AN970-3	. WASHER	3	
-39	AN960C10	. WASHER ---*---	3	
-40	NO NUMBER	. LOCK ASSEMBLY, Lid LH (See figure 9-29 for BKDN)	1	
-41	NO NUMBER	. LOCK ASSEMBLY, Lid RH (See figure 9-29 for BKDN)	1	
-42	NO NUMBER	. LOCK ASSEMBLY, Lid center (See figure 9-29 for BKDN) (ATTACHING PARTS)	1	
-43	COML	. SCREW, Cap button head (10-32 UNF-3A x 0.58)	4	
-44	AN960C10L	. WASHER ---*---	4	
-45	MS35490-25	. GROMMET	1	
-46	283101-17	. CONTAINER ASSEMBLY	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
9-20-47	CL204D2-1	. BRACKET ASSEMBLY (80206) ..... (ATTACHING PARTS)	1	
-48	MS204704A-7	. RIVET	4	
-49	AN960PD-4	. WASHER	4	
		---*---		
	7110015	HANDLE ASSEMBLY ..... (See figure 9-18 for NHA)	REF	
-50	7110016	. SCREW	1	
	255455	. LINK ASSEMBLY	1	
-51	255464-1	. . PIN (Press fit)	1	
-52	255456	. . LINK	1	
-53	655418	. BUSHING	1	
-54	COML	. SCREW, Cap hex sock fit ..... (6-32-3A x 0.50 CDPL)	4	
-55	7110017-1	. HANDLE HALF, LH	1	
-56	7110017-2	. HANDLE HALF, RH	1	
-57	255457	. SPRING	2	
-58	255463	. PIN ANCHOR	1	
	255453	. TRIGGER ASSEMBLY	1	
-59	99002-7	. . PIN (Press fit)	1	
-60	255454	. . TRIGGER	1	
	Notes: 1. If original bracket P/N 7110014 was previously discarded re-order clamp MS25281-F2 or F3 and attaching hardware as shown.			

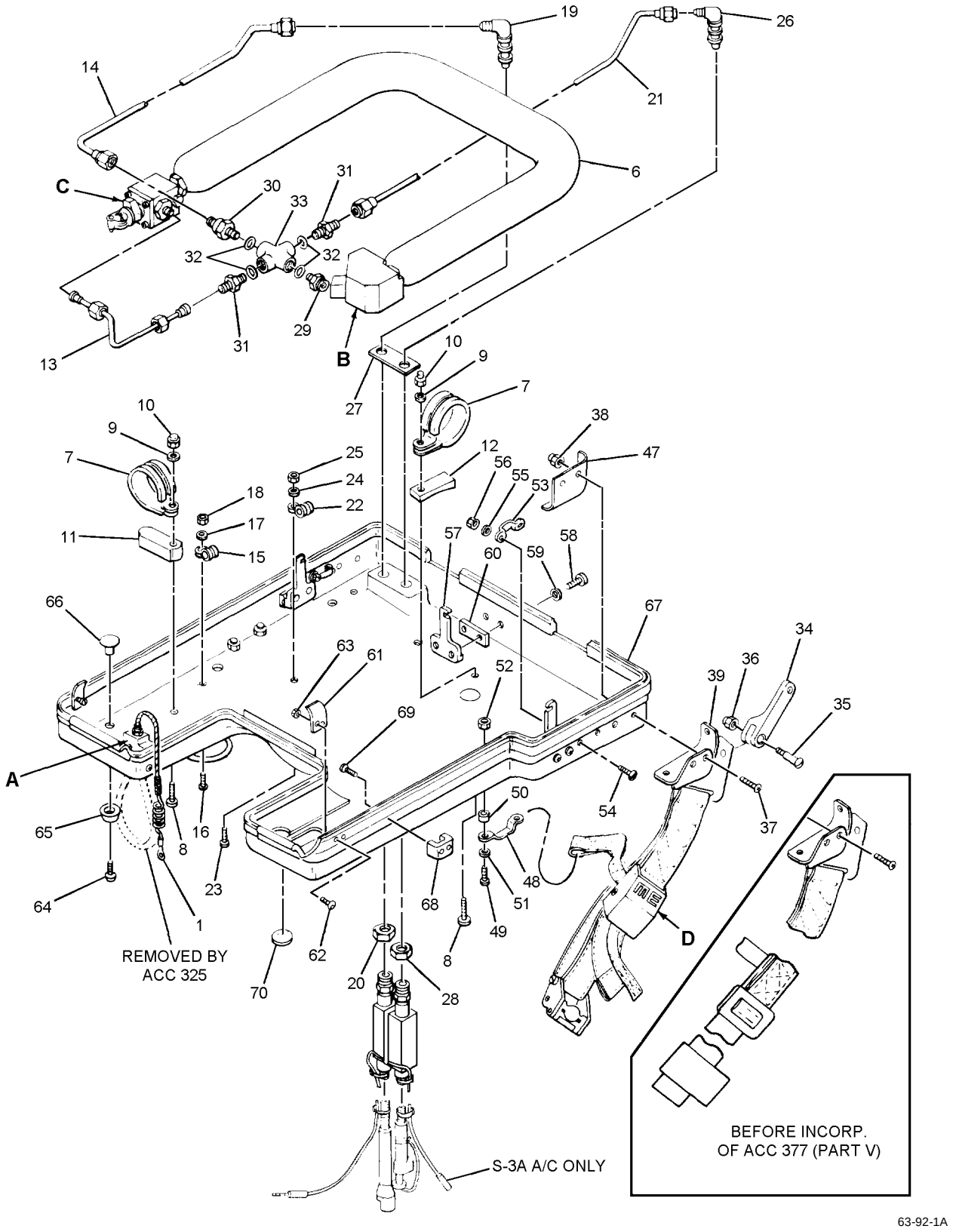

Figure 9-21. Upper Container Assembly (Rocket Jet P/N 283200-7 and 283200-17) (Sheet 1 of 2)

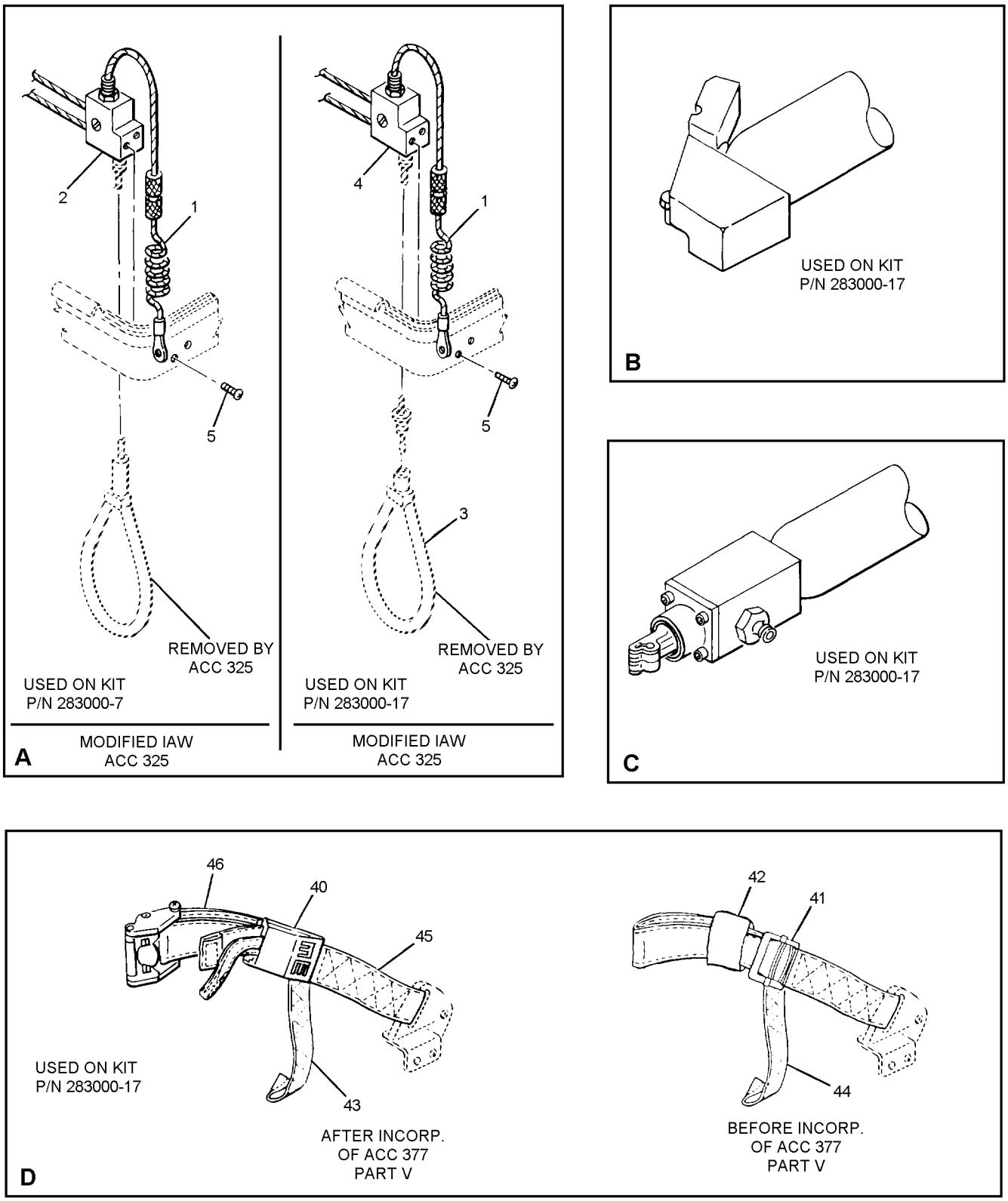

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Figure 9-21. Upper Container Assembly (Rocket Jet P/N 283200-7 and 283200-17) (Sheet 2 of 2)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
9-21	283200-7	UPPER CONTAINER ASSEMBLY ..... (See figure 9-18 for NHA)	REF	A
	283200-17	UPPER CONTAINER ASSEMBLY ..... (See figure 9-18 for NHA)	REF	B
-1	283168	. LANYARD ASSEMBLY ..... (See figure 9-25 for BKDN)	1	
-2	283480	. GRIP AND RELEASE ASSEMBLY ..... (See figure 9-24 for BKDN) (Interchangeable with 7010009 and 7010032 after ACC 325)	1	A
-3	7010009	. GRIP ASSEMBLY (Before ACC 325)	1	B
-4	7010032	. RELEASE ASSEMBLY, OXYGEN ..... (See figure 9-24 for BKDN) (After ACC 325) (ATTACHING PARTS)	1	B
-5	COML	. SCREW, Hex socket button head ..... (6-32 UNF-3A x 0.50) (Note 1) ---*---	2	
-6	283650-7	. REDUCER AND TUBE ASSEMBLY ..... (See figure 9-22 for BKDN)	1	A
	283650-9	. REDUCER AND TUBE ASSEMBLY ..... (See figure 9-23 for BKDN) (ATTACHING PARTS)	1	B
-7	MS21919-DG24	. CLAMP	4	
-8	COML	. SCREW, Hex socket button head ..... (10-32 UNF-3A x 0.62)	4	
-9	AN960C10L	. WASHER	4	
-10	22K2-02	. NUT, Hex (72962) ..... ---*---	4	
-11	283206-1	. SPACER, Front bottle	2	
-12	283207-1	. SPACER, Rear bottle	2	
-13	283685	. TUBE ASSEMBLY, Reducer-to-manifold	1	
-14	283686	. TUBE ASSEMBLY, Ship-to-manifold ..... (ATTACHING PARTS)	1	
-15	MS21919-DG4	. CLAMP	1	
-16	COML	. SCREW, Hex socket button head ..... (10-32 UNF-3A x 0.38)	1	
-17	AN960C10L	. WASHER	1	
-18	22K2-02	. NUT, Hex (72962) ..... ---*---	1	
-19	AN833-4D	. ELBOW	1	
-20	AN6289D4	. NUT	1	
-21	283687	. TUBE ASSEMBLY, Kit-to-manifold ..... (ATTACHING PARTS)	1	
-22	MS21919-DG4	. CLAMP	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
9-21-23	COML	. SCREW, Hex socket button head ..... (10-32 UNF-3A x 0.38)	1	
-24	AN960C10L	. WASHER	1	
-25	22K2-02	. NUT, Hex (72962) ..... ---*---	1	
-26	283222	. ELBOW, Bulkhead	1	
-27	283235	. PLATE, Hose	1	
-28	AN6289D5	. NUT	1	
	283280	. MANIFOLD ASSEMBLY	1	
-29	524A-4D-120	. . VALVE ASSEMBLY, Relief (91816) ..... (Replaced by 524A-4D-130 or D524A-4D-130)	1	
	524A-4D-130	. . VALVE ASSEMBLY, Relief (91816) ..... (Replaces 524A-4D-120)	1	
	D524A-4D-130	. . VALVE ASSEMBLY, Relief (91816) ..... (Replaces 524A-4D-120)	1	
-30	2624A-4TT	. . VALVE, Check (91816)	1	
-31	AN815-4D	. . UNION	2	
-32	99136-53-5	. . PACKING	4	
-33	AN937-4D	. . CROSS	1	
-34	283275	. LUG, Side release ..... (ATTACHING PARTS)	2	
-35	283216	. PIN, Lug	1	
-36	22K2-048	. NUT, Hex (72962) ..... ---*---	1	
	283274-1	. HARNESS ASSEMBLY LH ..... (Use until exhausted, then use 7110008-1)	1	A
	7110008-1	. HARNESS ASSEMBLY LH ..... (Replaces 283274-1)	1	B
	283274-2	. HARNESS ASSEMBLY RH ..... (Use until exhausted, then use 7110008-2)	1	A
	7110008-2	. HARNESS ASSEMBLY RH ..... (Replaces 283274-2) (ATTACHING PARTS)	1	B
-37	COML	. SCREW, Hex socket button head ..... (10-32 UNF-3A x 0.38)	5	
-38	22K2-02	. NUT, Hex (72962) ..... ---*---	5	
-39	283273-1	. . BRACKET ASSEMBLY, Harness LH ..... (Use until exhausted, then use 7110007-1)	1	A
	7110007-1	. . BRACKET ASSEMBLY, Harness LH ..... (Replaces 283273-1)	1	B
	283273-2	. . BRACKET ASSEMBLY, Harness RH ..... (Use until exhausted, then use 7110007-2)	1	A

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
9-21	7110007-2	. . BRACKET ASSEMBLY, Harness RH (Replaces 283273-2)	1	B
-40	1195AS114-1	. . ADJUSTER, Restraint harness (30003) (KD) (After ACC 377, interchangeable with 184C100-1 in pairs only) (Note 2)	2	
	184C100-1	. . ADJUSTER, Restraint harness (30941) (KD) (Interchangeable with 1195AS114-1 in pairs only) (Note 2)	2	
-41	MS22040-1	. . ADAPTER	1	
-42	283278	. . STRAP LOOP	1	
-43	1195AS115-1	. . ANTI-ROTATION STRAP, LH (KD)	1	
	234C600-1	. . ANTI-ROTATION STRAP, LH (30941) (KD) (After ACC 377)	1	
	1195AS115-2	. . ANTI-ROTATION STRAP, RH (KD)	1	
	234C600-2	. . ANTI-ROTATION STRAP, RH (30941) (KD) (After ACC 377)	1	
-44	COML	. . WEBBING (Type XVII, Cond. U, MIL-W-4088D)	A/R	
-45	COML	. . WEBBING (Type III, Cond. U, MIL-W-4088D)	A/R	
-46	COML	. . WEBBING (Type III, Cond. U, MIL-W-4088D)	A/R	
-47	283254-1	. PLATE, Interior LH	1	
	283254-2	. PLATE, Interior RH	1	
-48	255211-1	. BRACKET, Footman (Use until exhausted, then use 7110012)	2	A
	7110012	. BRACKET, Footman (Replaces 255211-1) (ATTACHING PARTS)	2	B
-49	COML	. SCREW, Hex socket button head (10-32 UNF-3A x 0.62)	4	
-50	255212-1	. SPACER	4	A
-51	AN960C10L	. WASHER	4	
-52	22K2-02	. NUT, Hex (72962) ---*---	4	
-53	365700-1	. BRACKET, Footman (ATTACHING PARTS)	2	
-54	COML	. SCREW, Hex socket button head (6-32 UNF-3A x 0.31)	4	
-55	AN960C6L	. WASHER	4	
-56	22K2-62	. NUT, Hex (72962) ---*---	4	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
9-21-57	1195AS109-1	. LATCH, Lid universal (KD)	3	
	230C535-1	. LATCH, Lid universal (30941) (KD) (After ACC 377)	3	
		(ATTACHING PARTS)		
-58	MS51958-63	. SCREW (10-32 x 0.50) (KD)	6	
-59	AN960PD10L	. WASHER (KD)	6	
-60	1195AS110-1	. SHIM, Tapered (1°-30') (KD)	3	
	230C536-11	. SHIM, Tapered (1°-30')	3	
	1195AS111-1	. SHIM, Tapered (3°) (KD)	3	
	230C536-13	. SHIM, Tapered (3°) (KD)	3	
	1195AS112-1	. SHIM, Tapered (6°) (KD)	3	
	230C536-15	. SHIM, Tapered (6°) ---*---	3	
-61	283277-1	. CLIP, Guide LH	1	A
	283277-2	. CLIP, Guide LH	1	B
	283277-3	. CLIP, Guide RH	1	A
	283277-4	. CLIP, Guide RH (ATTACHING PARTS)	1	B
-62	COML	. SCREW, Hex socket button head (6-32 UNF-3A x 0.50)	4	
-63	22K2-02	. NUT, Hex (72962) ---*---	4	
-64	COML	. SCREW, Binding head (3-56 UNF-3A x 0.25) (Note 3)	6	
-65	MS27983-3	. SNAP	6	
-66	MS27983-2	. STUD	6	
-67	283201-7	. LID ASSEMBLY, Bonded	1	A
	283201-17	. LID ASSEMBLY, Bonded and riveted	1	B
-68	7110009	. HANDLE, Support (ATTACHING PARTS)	1	B
-69	COML	. SCREW (6-32 x 0.50) ---*---	2	B
-70	308411	. WINDOW	1	

Notes:
1. Apply sealing compound Grade C or CV.
2. Adjuster part numbers are all listed under the same NSN 1660-01-094-3359.
3. For S-3A A/C only.

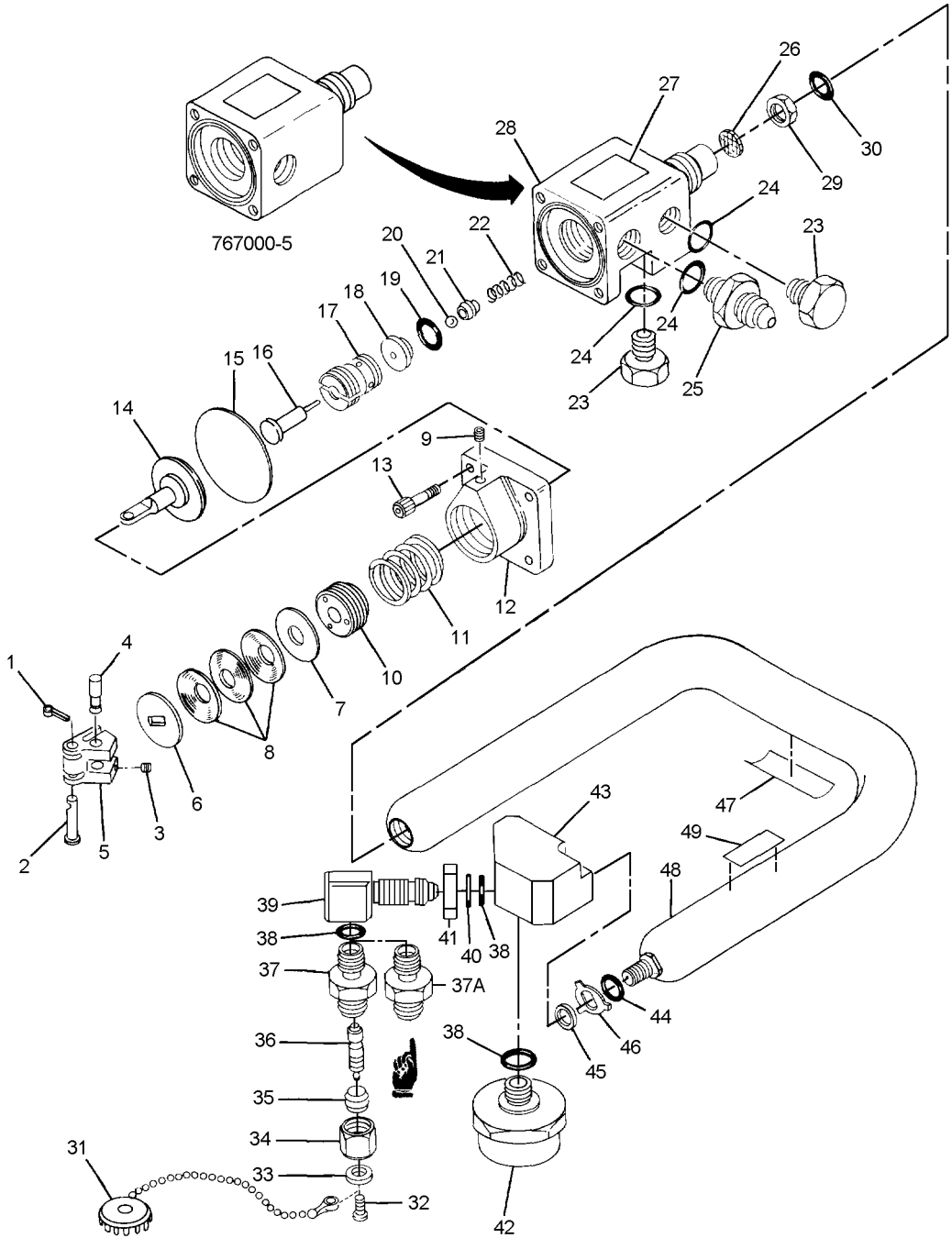


Figure 9-22. Reducer and Tube Assembly (Rocket Jet P/N 283650-7)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
9-22	283650-7	REDUCER AND TUBE ASSEMBLY (See figure 9-21 for NHA)	REF	
	767000-1	. REDUCER ASSEMBLY, Oxygen pressure (Use until exhausted, then use 767000-5)	1	A
	767000-5	. REDUCER ASSEMBLY, Oxygen pressure (Replaces 767000-1)	1	B
-1	MS24665-151	. . PIN, Cotter	1	
-2	MS20392-1C17	. . PIN	1	
-3	AN565DC6H2	. . SETSCREW (Apply sealing compound, grade C or CV)	1	
-4	767900	. . PIN	1	
-5	767100	. . CAM	1	
-6	767901-11	. . SPACER	1	
-7	767901	. . SPACER (Select dash number as required for thickness)	A/R	
-8	BS18-6.2-0.5	. . SPRING, Belleville (05341)	3	
-9	CS-10	. . SETSCREW, Socket head (12139)	1	
-10	723112	. . RETAINER	1	
-11	723111	. . SPRING	1	
-12	767400	. . FLANGE	1	
-13	MS24677-8	. . SCREW (Lockwire with 0.020 wire)	4	
-14	767902	. . PISTON	1	
-15	723134	. . DIAPHRAGM (KC)	1	
-16	723106	. . PLUNGER	1	
-17	723107	. . RETAINER (Apply sealing compound, Grade C or CV)	1	
-18	723104	. . SEAT (KC)	1	
-19	99136-12-11	. . PACKING (KC)	1	
-20	MS134352	. . BALL	1	
-21	723103	. . RETAINER	1	
-22	767106	. . SPRING	1	
-23	AN814-3D	. . PLUG	2	A
-24	99136-52-15	. . PACKING (KC)	3	A
	99136-52-15	. . PACKING (KC)	1	B
-25	767600	. . FITTING, Reducer	1	
-26	40-3594-12380-060	. . FILTER (90005)	1	
-27	99050-2	. . DECAL, Nameplate	1	
-28	767300	. . HOUSING	1	A
	767300-1	. . HOUSING	1	B
-29	723133	. NUT, Lock (Torque 18 ft./lbs. and lockwire with 0.032 wire)	1	
-30	99136-111-11	. PACKING (Use until exhausted, then use 99136-111-15)	1	
	99136-111-15	. PACKING (Replaces 99136-111-11)	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
9-22	767800	. VALVE ASSEMBLY, Fill	1	
-31	365695	. . PLUG ASSEMBLY	1	
	767860	. . CAP ASSEMBLY	1	
-32	AN515C4-4	. . . SCREW	1	
-33	AN960C4	. . . WASHER	1	
-34	767861	. . . CAP	1	
-35	767862	. . . PLUG	1	
	767850	. . BODY ASSEMBLY	1	
-36	AN809-1	. . . CORE (Short stem)	1	
-37	767851	. . . BODY	1	
-37A	9120097-27	. . FILL VALVE (Note 1)	1	
-38	99136-52-15	. PACKING Preformed (31441)	3	
	3-903E515-80	. PACKING (02697) (Alternate for 99136-52-15)	3	
-39	365680	. FITTING, Valve	1	
-40	MS28773-03	. RETAINER, Packing	1	
-41	AN6289D-3	. NUT	1	
-42	767700	. GAGE	1	
-43	283606	. MANIFOLD INDICATOR AND FILL VALVE ASSEMBLY	1	
-44	99136-12-11	. PACKING (Use until exhausted, then use 99136-111-15)	1	
	99136-111-15	. PACKING (Replaces 99136-12-11)	1	
-45	283608	. WASHER, Manifold	1	
-46	283607	. WASHER, Lock	1	
-47	99050-1	. DECAL, Nameplate	1	
-48	365600-3	. TUBE ASSEMBLY	1	
-49	365605	. . NAMEPLATE	1	
	Notes: 1. Fill Valve can be used as an alternate to replace Charging Valve Body Assembly P/N F2641-1 or Valve Core P/N F3635241-1 and Body P/N F1374-1.			

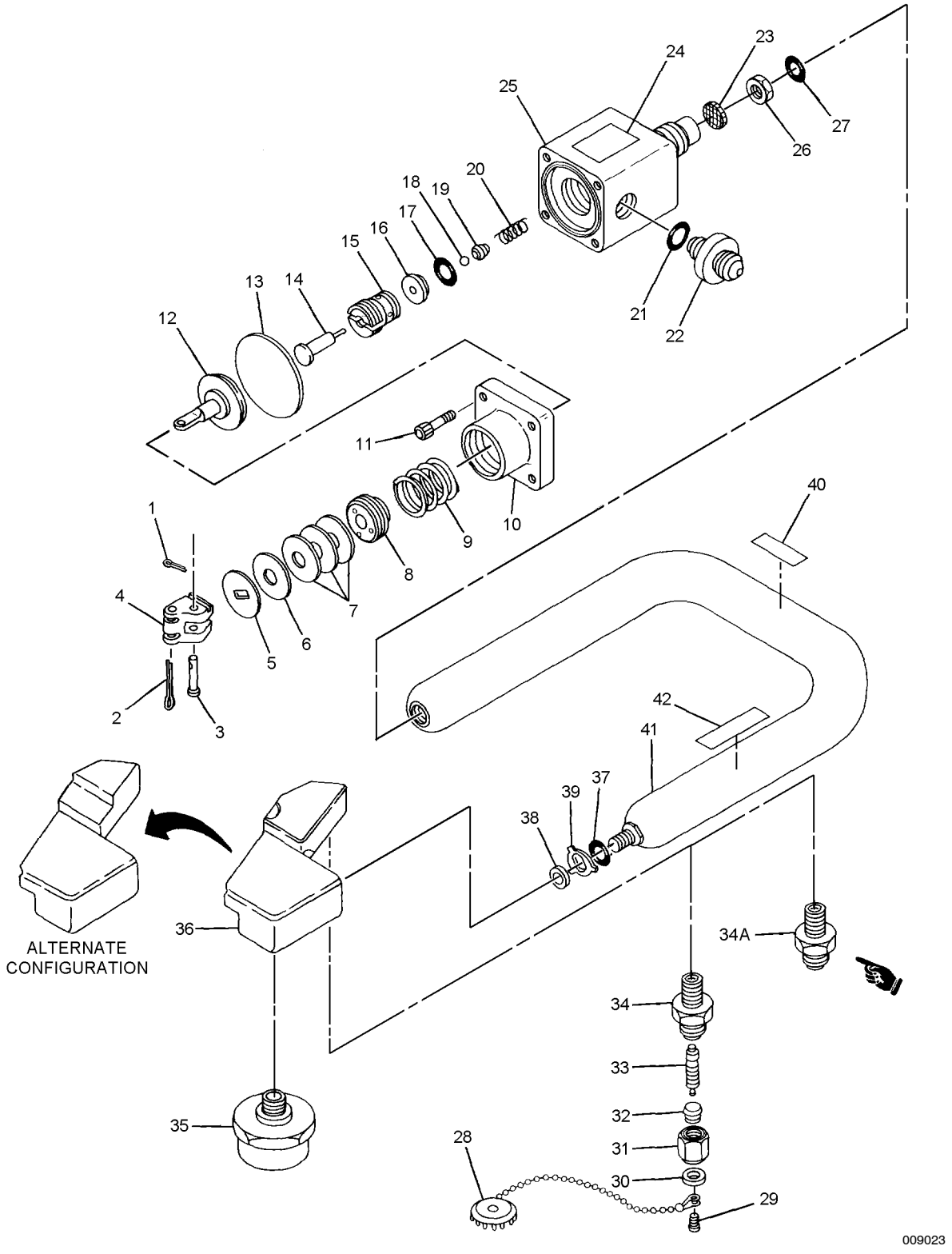


Figure 9-23. Reducer and Tube Assembly (Rocket Jet P/N 283650-9)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
9-23	283650-9	REDUCER AND TUBE ASSEMBLY ..... (See figure 9-21 for NHA)	REF	
	767000-7	. REDUCER ASSEMBLY, Oxygen pressure	1	
-1	MS24665-151	. . PIN, Cotter	1	
-2	MS24665-229	. . PIN, Cotter	1	
-3	MS20392-1C17	. . PIN	1	
-4	767100-3	. . CAM	1	
-5	767901-11	. . SPACER	1	
-6	767901	. . SPACER (Select dash number as required for thickness)	A/R	
-7	BS18-6.2-0.5	. . SPRING, Belleville (05341)	3	
-8	7110010	. . RETAINER	1	
-9	741374	. . SPRING	1	
-10	767400-1	. . FLANGE	1	
-11	P60FS6-32-8CR	. . SCREW (Socket hand cap) (lock)	4	
-12	767902-3	. . PISTON	1	
-13	723134	. . DIAPHRAGM (KC)	1	
-14	723106	. . PLUNGER	1	
-15	723107	. . RETAINER ..... (Apply sealing compound, Grade C or CV)	1	
-16	723104	. . SEAT (KC)	1	
-17	99136-12-15	. . PACKING, Preformed	1	
-18	MS134352	. . BALL	1	
-19	723103	. . RETAINER	1	
-20	767106	. . SPRING	1	
-21	99136-52-15	. . PACKING, Preformed	1	
	3-903E515-80	. . PACKING, Preformed (02697) ..... (Alternate for 99136-52-15)	1	
-22	767600	. . FITTING, Reducer	1	
-23	40-3594-12380-060	. . FILTER (90005)	1	
-24	6999002-5	. . NAMEPLATE	1	
-25	767300-3	. . HOUSING	1	
-26	723133	. NUT, Lock ..... (Torque 18 ft/lbs and lockwire with 0.032 wire)	1	
-27	99136-111-15	. PACKING, Preformed	1	
	741800	. FILL VALVE ASSEMBLY	1	
-28	365695	. . PLUG ASSEMBLY	1	
	767860	. . CAP ASSEMBLY	1	
-29	AN515C4-4	. . . SCREW	1	
-30	AN960C4	. . . WASHER	1	
-31	767861	. . . CAP	1	
-32	767962	. . . PLUG	1	
	741810	. . BODY ASSEMBLY, Filler valve	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
9-23-33	767852	. . . VALVE CORE, High pressure	1	
-34	741811	. . . BODY	1	
-34A	9120097-27	. . FILL VALVE (Note 2)	1	
-35	741376	. GAGE	1	
-36	7110004	. MANIFOLD (Note 1)	1	
-37	99136-12-15	. PACKING	1	
-38	283608	. WASHER, Manifold	1	
-39	283607	. WASHER, Lock	1	
-40	6999002-3	. NAMEPLATE	1	
-41	365600-3	. TUBE ASSEMBLY	1	
-42	365605	. . NAMEPLATE	1	
	Notes: 1. Alternate configuration found on parts manufactured after 12-8-71. 2. Fill Valve can be used as an alternate to replace Filler Valve Body Assembly P/N 741810 or Valve Core P/N 767852 and Body P/N 741811.			

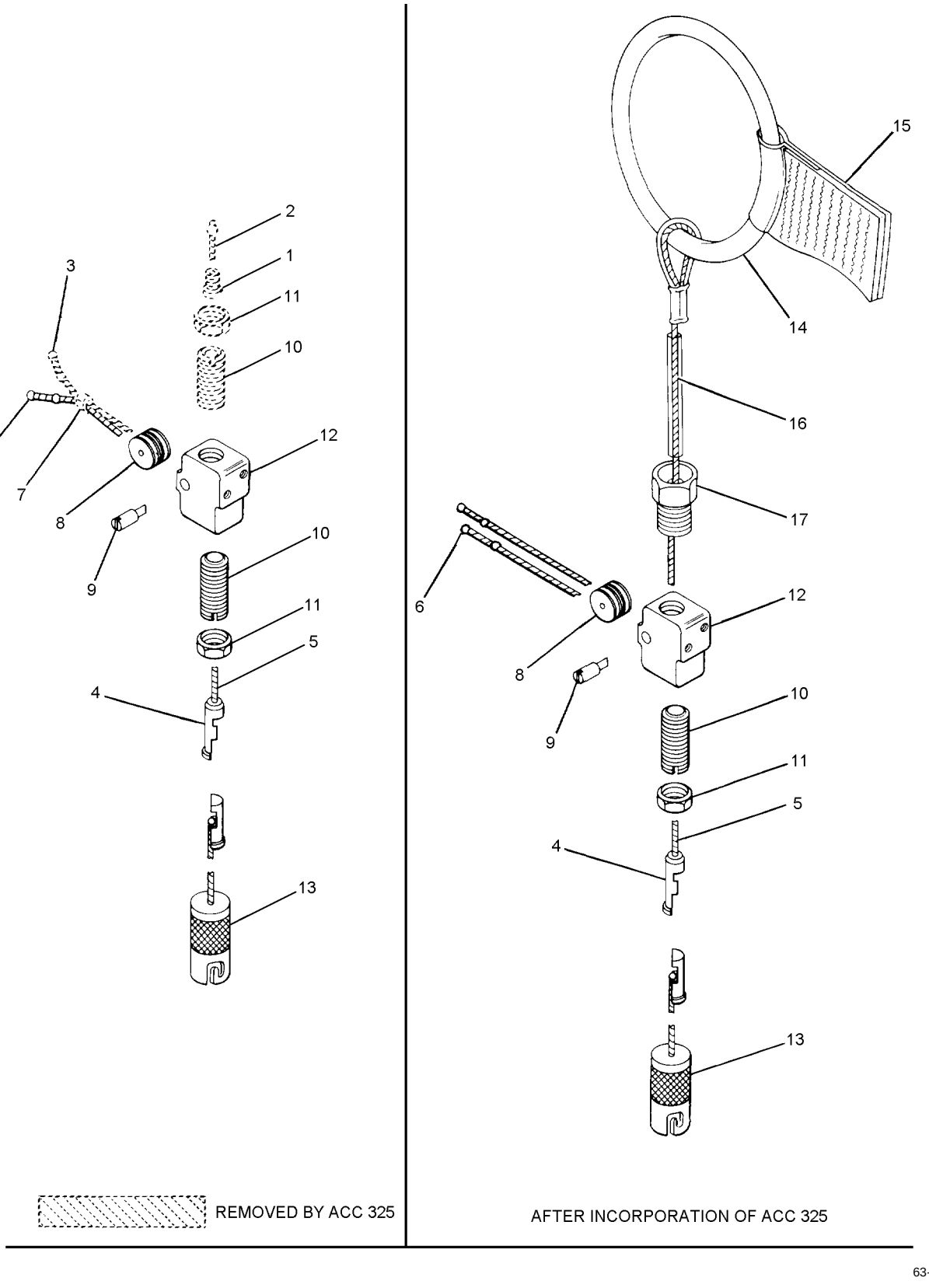


Figure 9-24. Release Assembly (Rocket Jet)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
9-24	7010032	RELEASE ASSEMBLY ..... (See figure 9-21 for NHA)	REF	
	7010012-1	. CABLE ASSEMBLY, Upper ..... (Before ACC 325)	1	
-1	7010013	. . SCREW (Before ACC 325)	1	
-2	RA6170	. . CABLE 4.06 inches maximum ..... (Before ACC 325)	A/R	
-3	RAL2487-041-125	. . BALL TERMINAL (Before ACC 325)	3	
	283185	. LINK ASSEMBLY, Lower	1	
-4	283164	. . LINK, Lower	1	
-5	RA6170	. . CABLE 3.60 inches maximum	A/R	
-6	RAL2487-041-125	. . BALL TERMINAL	3	
-7	24410-1	. SLEEVE (Before ACC 325)	1	
-8	283170	. PULLEY RELEASE	2	
-9	365623	. PIN, Pulley release	1	
-10	283182	. ADJUSTER (Before ACC 325)	2	
-11	142010	. NUT (Before ACC 325)	2	
-12	283181	. HOUSING	1	
-13	283168	LANYARD ASSEMBLY ..... (See figure 9-25 for BKDN)	1	
-14	CL223D2-1	. RIGID O-RING GRIP ASSEMBLY ..... (After ACC 325)	1	
-15	CL223D2-9	. . HOOK TAPE (After ACC 325)	1	
-16	CL223D2-3	. . CABLE ASSEMBLY (After ACC 325)	1	
-17	CL223D2-4	. . INSERT (After ACC 325)	1	

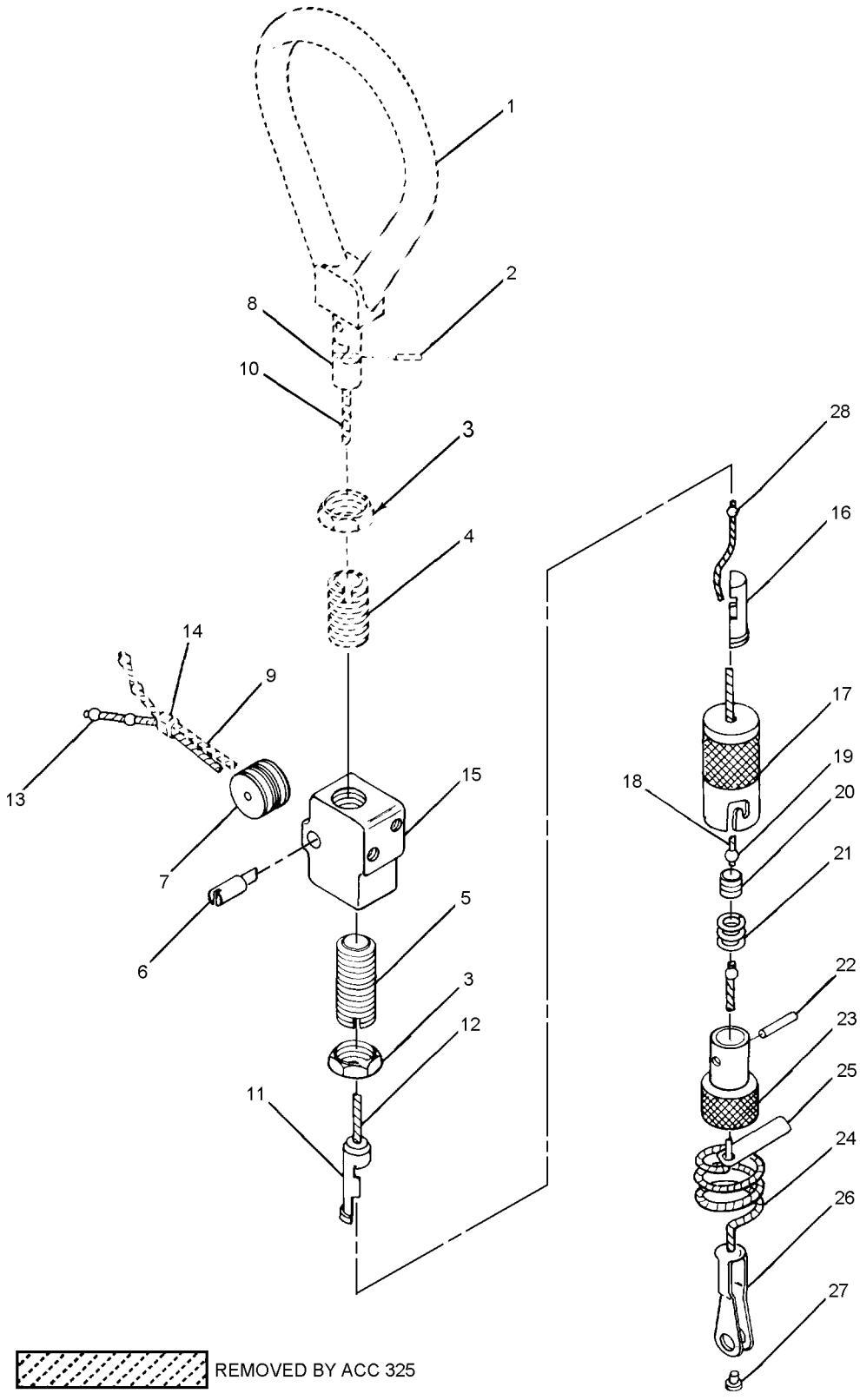


Figure 9-25. Grip and Release Assembly and Lanyard Assembly (Rocket Jet) (Sheet 1 of 2)

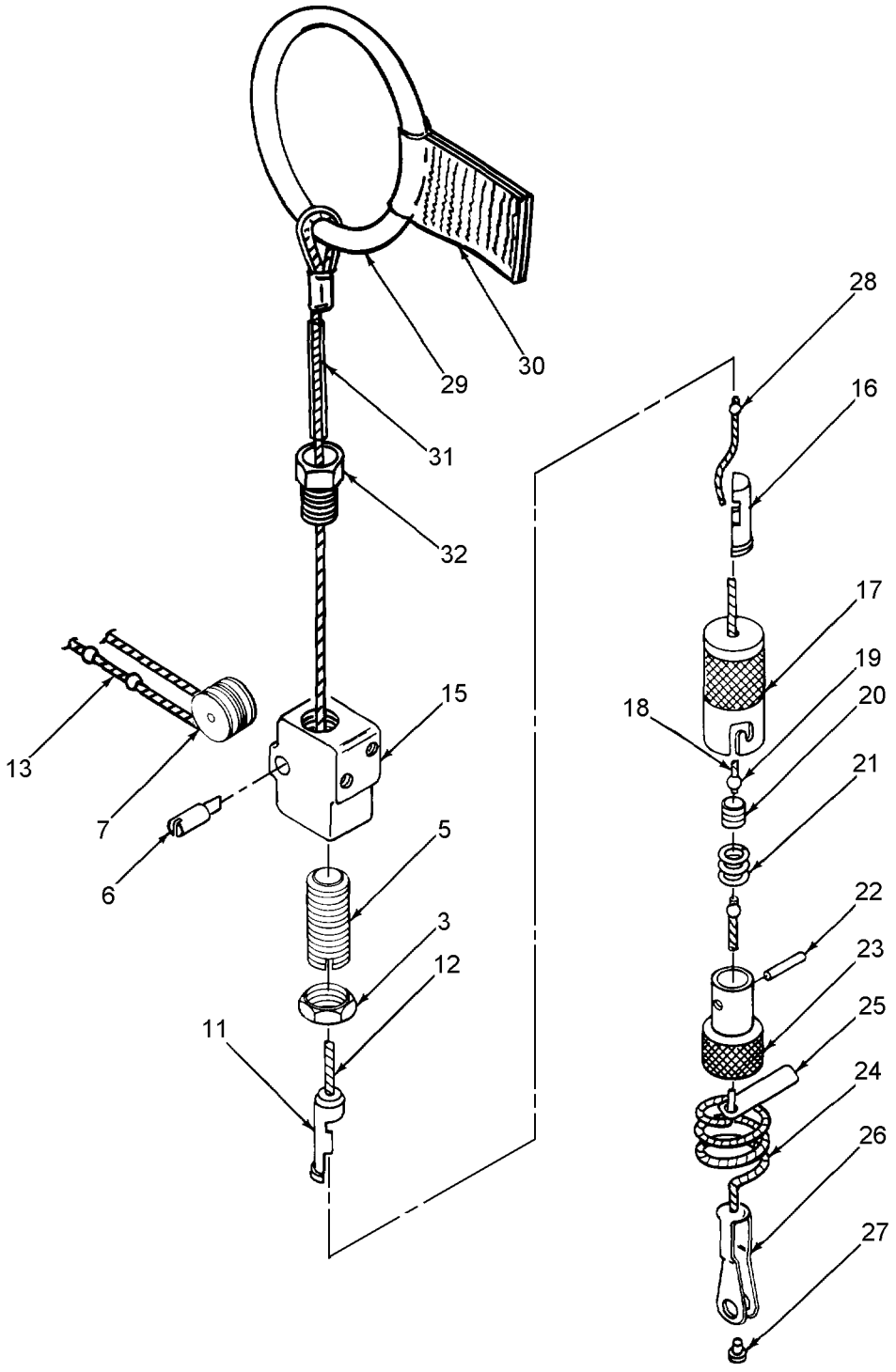


Figure 9-25. Grip and Release Assembly and Lanyard Assembly (Rocket Jet) (Sheet 2 of 2)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
9-25	283480	GRIP AND RELEASE ASSEMBLY ..... (See figure 9-21 for NHA)	REF	
-1	283190	. GRIP ASSEMBLY (Mod IAW ACC 250) ..... (Before ACC 325)	1	
-2	283193	. PIN (Before ACC 325)	1	
	283180-1	. RELEASE ASSEMBLY	1	
-3	142010	. . NUT (Before ACC 325)	2	
-4	365624-3	. . ADJUSTER, Upper release ..... (Before ACC 325)	1	
-5	283182	. . ADJUSTER, Lower release	1	
-6	365623	. . PIN, Pulley release	1	
-7	283170	. . PULLEY, Release	2	
1	283184-1	. . LINK ASSEMBLY, Upper manual release ..... (Before ACC 325)	1	
-8	283171	. . . LINK, Manual release upper ..... (Before ACC 325)	1	
-9	RAL2487	. . . BALL TERMINAL (93284) ..... (Before ACC 325)	3	
-10	RA6170	. . . CABLE 3.50 inches maximum ..... (Before ACC 325)	A/R	
	283185	. . LINK ASSEMBLY, Lower	1	
-11	283164	. . LINK, Lower	1	
-12	RA6170	. . . CABLE 3.50 inches maximum	A/R	
-13	RAL2487	. . . BALL TERMINAL (93284)	3	
-14	24410-1	. . SLEEVE	1	
-15	283181	. . HOUSING	1	
	283168	LANYARD ASSEMBLY ..... (See figure 9-21 for NHA)	REF	
	283166	. COUPLING ASSEMBLY, Lanyard	1	
-16	283165	. . LINK	1	
-17	283690	. . COUPLING, Sleeve	1	
-18	RA6170	. . CABLE (93284)	1	
-19	RAL2487	. . BALL TERMINAL (93284)	2	
-20	MS51965-52	. . SETSCREW, Flat point	1	
-21	0300-022-0500M	. . SPRING (92380)	1	
-22	99003-7	. . PIN	1	
	283169	. COUPLING ASSEMBLY, Lower	1	
-23	365682	. . COUPLING LOCK	1	
-24	RA6170-2	. . CABLE 18.75 inches maximum	A/R	
-25	22414	. . TAG	1	
-26	RA2500-2	. . FITTING, Fork end	1	
-27	MS2066-4C2	. . BALL, End	1	
-28	RAL2487-2	. . BALL, Terminal	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
9-25-29	CL223D2-1	. RIGID O-RING GRIP ASSEMBLY . . . . . (After ACC 325)	1	
-30	CL223D2-9	. . HOOK TAPE (After ACC 325)	1	
-31	CL223D2-3	. . CABLE ASSEMBLY (After ACC 325)	1	
-32	CL223D2-4	. . INSERT (After ACC 325)	1	

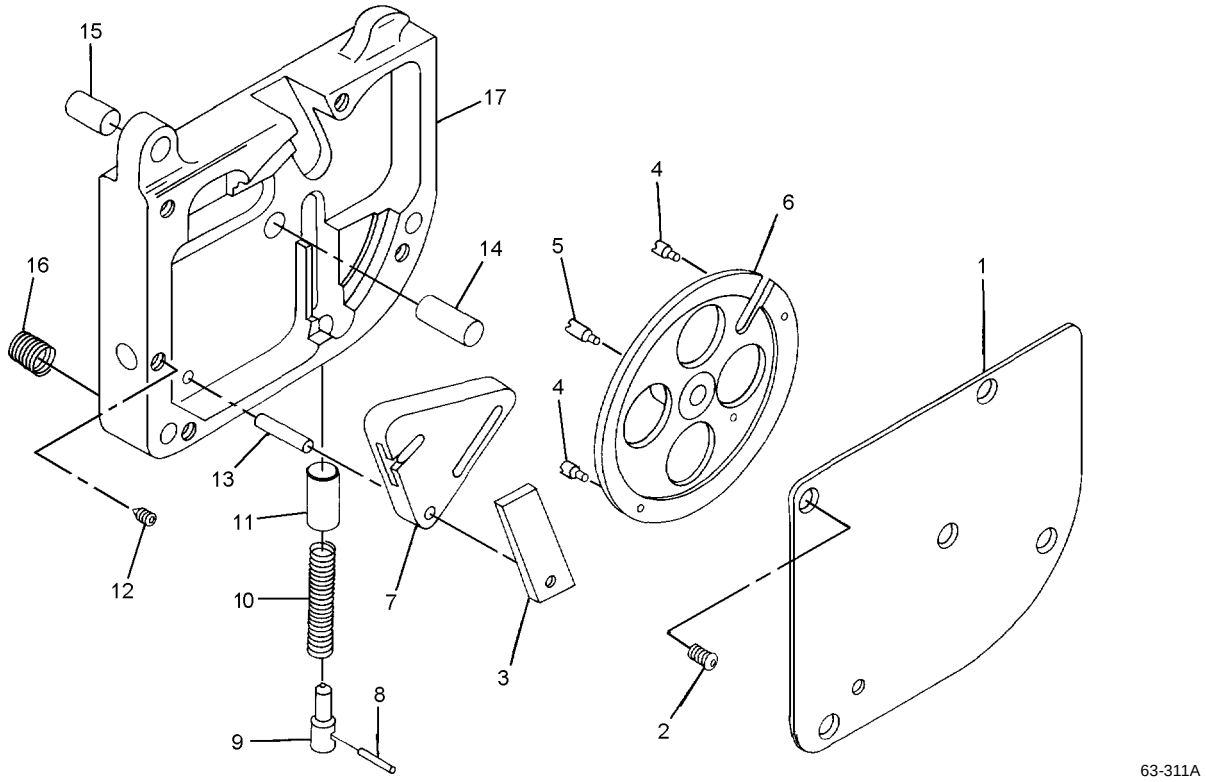


Figure 9-26. Multi-Release Assembly (Rocket Jet P/N 283500)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
9-26	283500	MULTI-RELEASE ASSEMBLY ..... (See figure 9-19 for NHA)	REF	
-1	283504	. COVER	1	
-2	99071	. SCREW, Flat head sock (4-40 x 1/4)	4	
-3	195015	. RETAINER, Cable	1	
	195047	. DISK ASSEMBLY	1	
-4	195016-1	. . PIN (Staked)	2	
-5	195016-3	. . PIN (Staked)	1	
-6	195048	. . DISK	1	
-7	283505	. LEVER, Lid lock cable	1	
-8	99003-7	. PIN	1	
-9	195012	. PIN, Guide, return spring	1	
-10	195011	. SPRING	1	
-11	195010	. PLUNGER	1	
-12	99008-1	. SETSCREW	1	
	283501	. HOUSING ASSEMBLY	1	
-13	99002-2	. . PIN (Press fit)	1	
-14	99004-2	. . PIN (Press fit)	1	
-15	99004-1	. . PIN (Press fit)	1	
-16	3591-3CN-0.190	. . INSERT, Helical coil (91767)	3	
-17	283502	. . HOUSING	1	

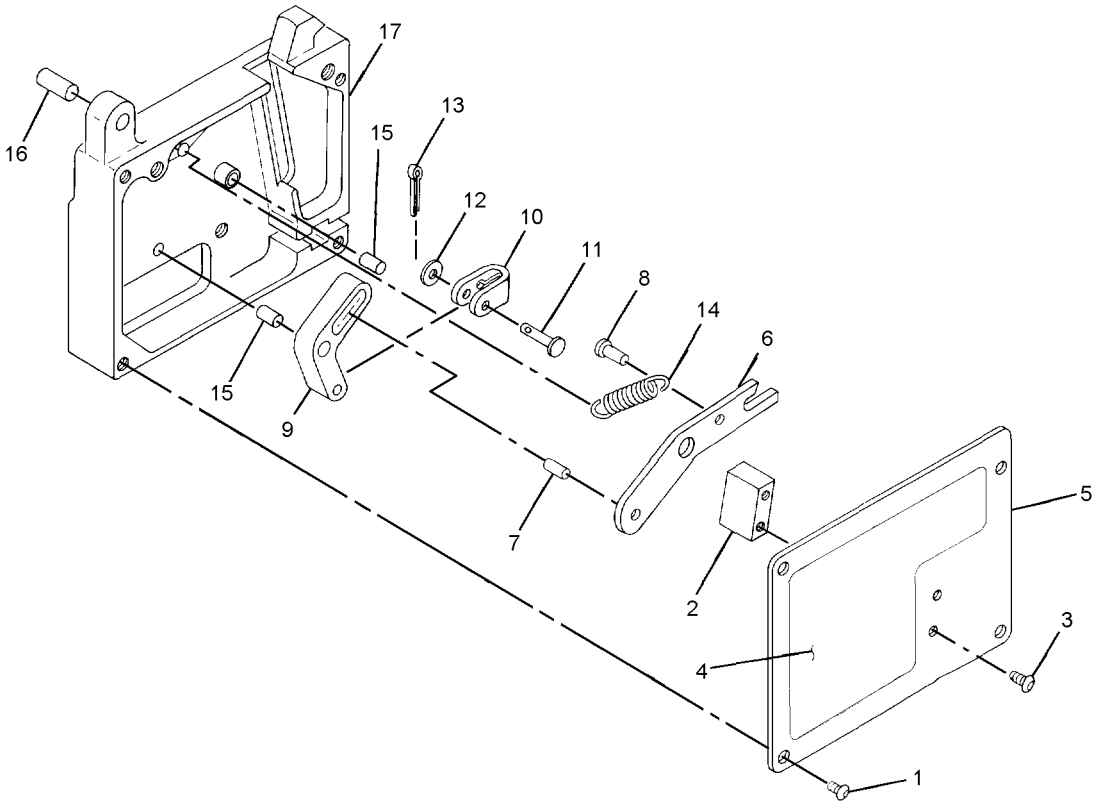


Figure 9-27. Multi-Release Assembly (Rocket Jet P/N 365705-1)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
9-27	365705-1	MULTI-RELEASE ASSEMBLY ..... (See figure 9-20 for NHA)	REF	
	365736-1	. COVER ASSEMBLY ..... (ATTACHING PARTS)	1	
-1	COML	. SCREW Button head sock CD PL ..... (4-40NC-3A x 0.25) ---*---	4	
-2	365735	. . LUG, Lever stop ..... (ATTACHING PARTS)	1	
-3	COML	. . SCREW, Button head sock CD PL ..... (4-40NC-3A x 3/8) ---*---	2	
-4	365734	. . DECAL, Release cover	1	
-5	365709-1	. . COVER, Release cable	1	
	365712	. LEVER ASSEMBLY, Actuating	1	
-6	365706	. . LEVER	1	
-7	99002-10	. . PIN	1	
-8	MS20613-4C4	. . RIVET	1	
	365713	. LINK ASSEMBLY, Release	1	
-9	365703	. . LINK, Intermediate	1	
-10	365707	. . LINK, Connecting	1	
-11	AN121603	. . PIN, Flat head	1	
-12	AN960C4L	. . WASHER, Flat	1	
-13	MS24665-151	. . PIN, Cotter	1	
-14	365714	. SPRING	1	
	365733-1	. HOUSING ASSEMBLY	1	
-15	99007-4	. . PIN	2	
-16	99004-1	. . PIN	1	
-17	365704-1	. . HOUSING, Machined	1	

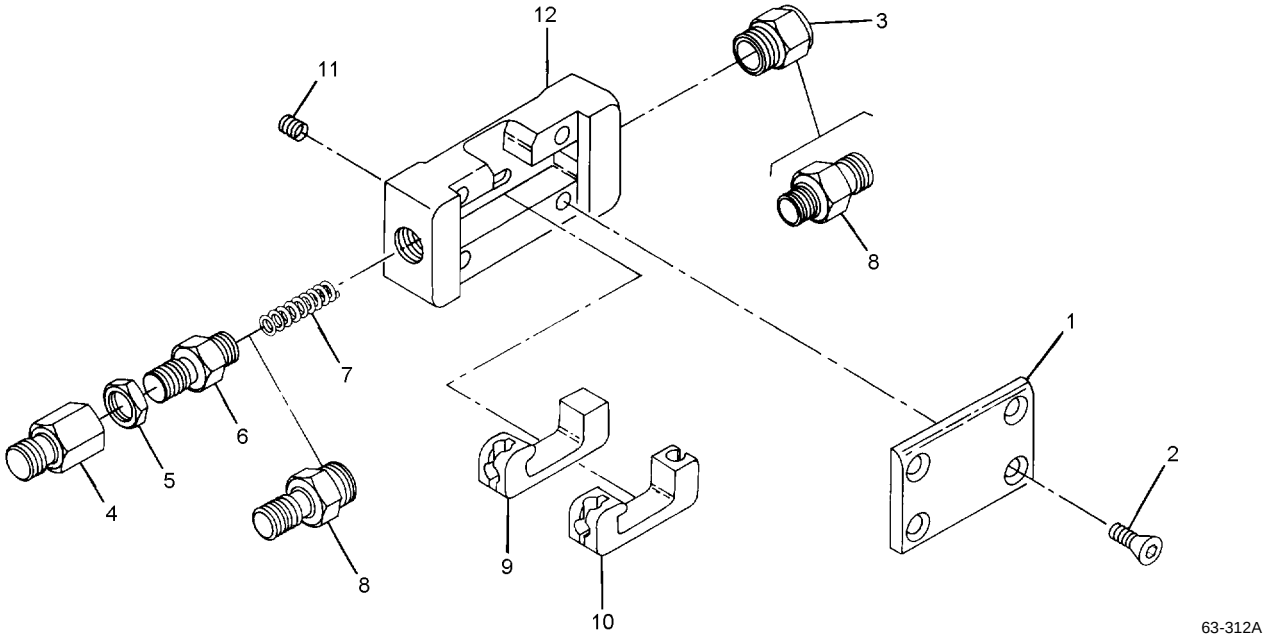


Figure 9-28. Lid Lock Assemblies (Rocket Jet) (For 283000-7)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
9-28	283130	LOCK ASSEMBLY LH ..... (See figure 9-19 for NHA)	REF	D
	283140	LOCK ASSEMBLY RH ..... (See figure 9-19 for NHA)	REF	E
	283150	LOCK ASSEMBLY Center ..... (See figure 9-19 for NHA)	REF	F
-1	283133	. COVER	1	
-2	COML	. SCREW, Flat head sock cap	4	
-3	255511	. PLUG	1	D
-4	142066-2	. NUT, Adjustment, cable	1	D,F
-5	142007	. LOCKNUT, Adjustment, cable	1	D,F
-6	142001-7	. NIPPLE, Cable assembly	1	D,F
-7	119016	. SPRING	1	D
-8	142001-1	. NIPPLE, Cable assembly	1	F
	142001-1	. NIPPLE, Cable assembly	2	E
-9	264003	. SLIDE, Lid lock	1	D
-10	378313	. SLIDE, Lid lock	1	E,F
-11	3591-3CN-0.0285	. INSERT, Helical coil (91767)	4	
-12	283131-2	. HOUSING	1	D,E
	283131-1	. HOUSING	1	F

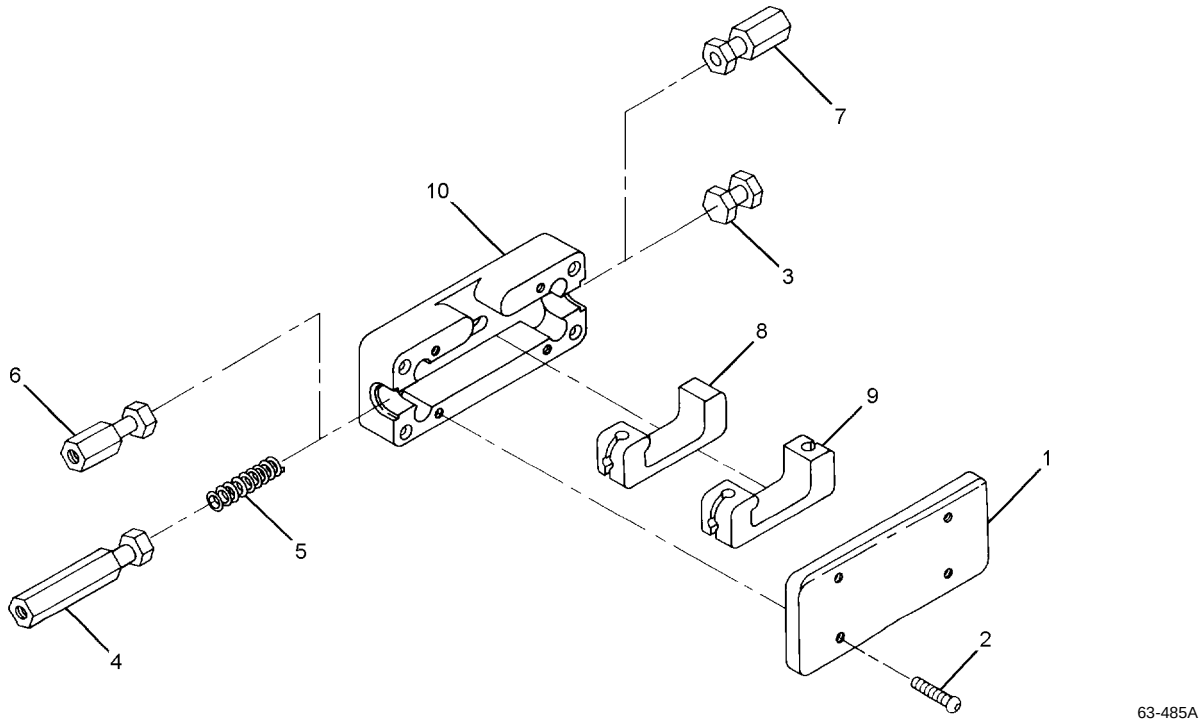


Figure 9-29. Lid Lock Assemblies (Rocket Jet) (For 283000-17)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
9-29	No Number	LOCK ASSEMBLY Lid LH . . . . . (See figure 9-20 for NHA)	REF	G
	No Number	LOCK ASSEMBLY Lid RH . . . . . (See figure 9-20 for NHA)	REF	H
	No Number	LOCK ASSEMBLY Lid Center . . . . . (See figure 9-20 for NHA)	REF	I
-1	7110023	. COVER	1	
-2	COML	. SCREW Button head, sock cap CD PL . . . . . (4-40 UNC-34 x 3/8)	4	
-3	7110021	. PLUG	1	G
-4	7110024	. ADJUSTER CONDUIT AND CABLE	1	G
-5	7110056	. SPRING 119016	1	G
-6	7110022	. ADJUSTER	2	I
-7	7110022	. ADJUSTER	1	H
-8	264003	. SLIDE	1	G
-9	378313	. SLIDE	1	H,I
-10	7110019-3	. HOUSING	2	G,H
	7110019-1	. HOUSING	1	I

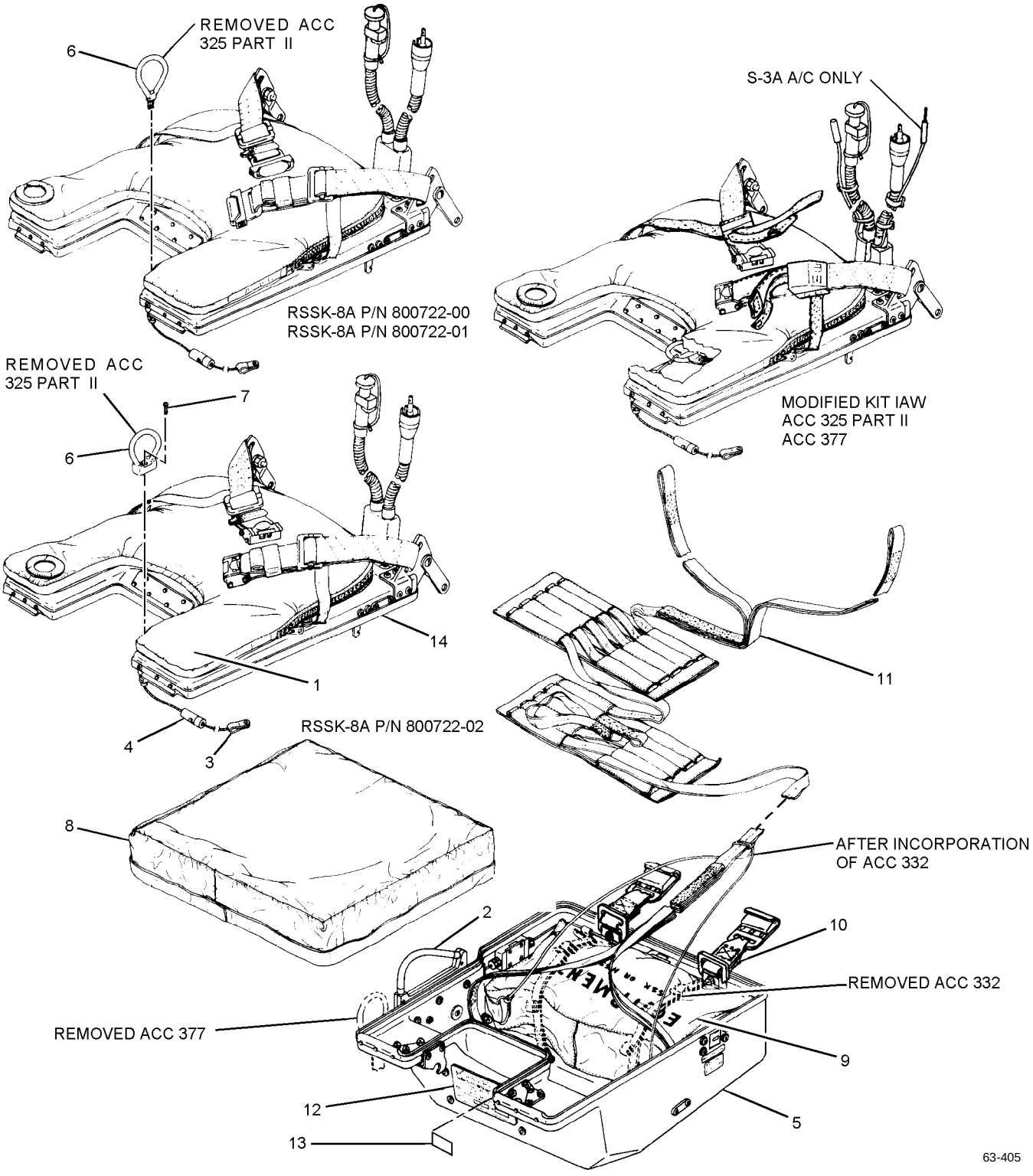


Figure 9-30. Rigid Seat Survival Kit-8A/8A-1 (Scott)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
9-30	CL223D999-3	SURVIVAL KIT CONTAINER, Oxygen, ... RSSK-8A	1	A
	CL223D999-4	SURVIVAL KIT CONTAINER, Oxygen, ... RSSK-8A	1	B
	CL223D999-5	SURVIVAL KIT CONTAINER, Oxygen, ... RSSK-8A-1	1	C
-1	800746-00	. CUSHION ASSEMBLY (Note 2)	1	A,B
	800746-01	. CUSHION ASSEMBLY (Note 2)	1	C
-2	800676-03	. HANDLE ASSEMBLY	1	
-3	800720-00	. LANYARD ASSEMBLY	1	
-4	800758-00	. CONNECTOR ASSEMBLY	1	
-5	800729-00	. CONTAINER ASSEMBLY, Lower ..... (See figure 9-31 for BKDN)	1	A
	800729-01	. CONTAINER ASSEMBLY, Lower ..... (See figure 9-31 for BKDN)	1	B,C
-6	800759-00	. RELEASE ASSEMBLY, Manual oxygen ..... (Before ACC 325)	1	A
	801215-00	. RELEASE ASSEMBLY, Manual oxygen ..... (Before ACC 325)	1	B
	801215-01	. RELEASE ASSEMBLY, Manual oxygen ..... (Before ACC 325) (ATTACHING PARTS)	1	C
-7	COML	. SCREW, Self locking, panhead, recessed	1	B,C
	59675-00	. SCREW, Self locking, panhead, recessed ..... (53655) ---*---	1	B,C
-8	36D1321	. COVER, Raft protective (80206)	1	
	58971-00	. COVER, Raft protective (53655)	1	
-9	63A94H7-2	. EQUIPMENT CONTAINER ASSEMBLY ..... (Use until exhausted, then use 68A77D4-1)	1	A/B
	68A77D4-1	. EQUIPMENT CONTAINER ASSEMBLY ..... (80206)	1	C
	42262-00	. EQUIPMENT CONTAINER ASSEMBLY ..... (53655)	1	C
-10	1195AS106-1	. STRAP, Retention, parachute ..... (Before ACC 377)	2	
	224C300-1	. STRAP, Retention, parachute (30941) ..... (After ACC 377)	2	
-11	36H1323-31	. DROPLINE	1	
	41781-00	. DROPLINE (53655)	1	
-12	10001444	. PLATE, Identification	1	A,B
	10005108	. PLATE, Identification	1	C
-13	1195AS116-1	. DECAL RSSK-8D (After ACC 377) (KD)	1	
	234C500-1	. DECAL RSSK-8D (30941)	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
9-30-14	800723-00	. CONTAINER ASSEMBLY, Upper . . . . . (See figure 9-33 for BKDN)	1	A,B
	800723-01	. CONTAINER ASSEMBLY, Upper . . . . . (See figure 9-33 for BKDN)	1	C
	234A100-1	. KIT, Retrofit ACC 377 (30941) (KD)	1	
	Notes: 1. For S-3A A/C only. 2. Alternate cushion foam P/N CF-47100, CONFOR foam (1M331) NIIN 01-370-6116, has been authorized. See Fabrication Section 9-7.			

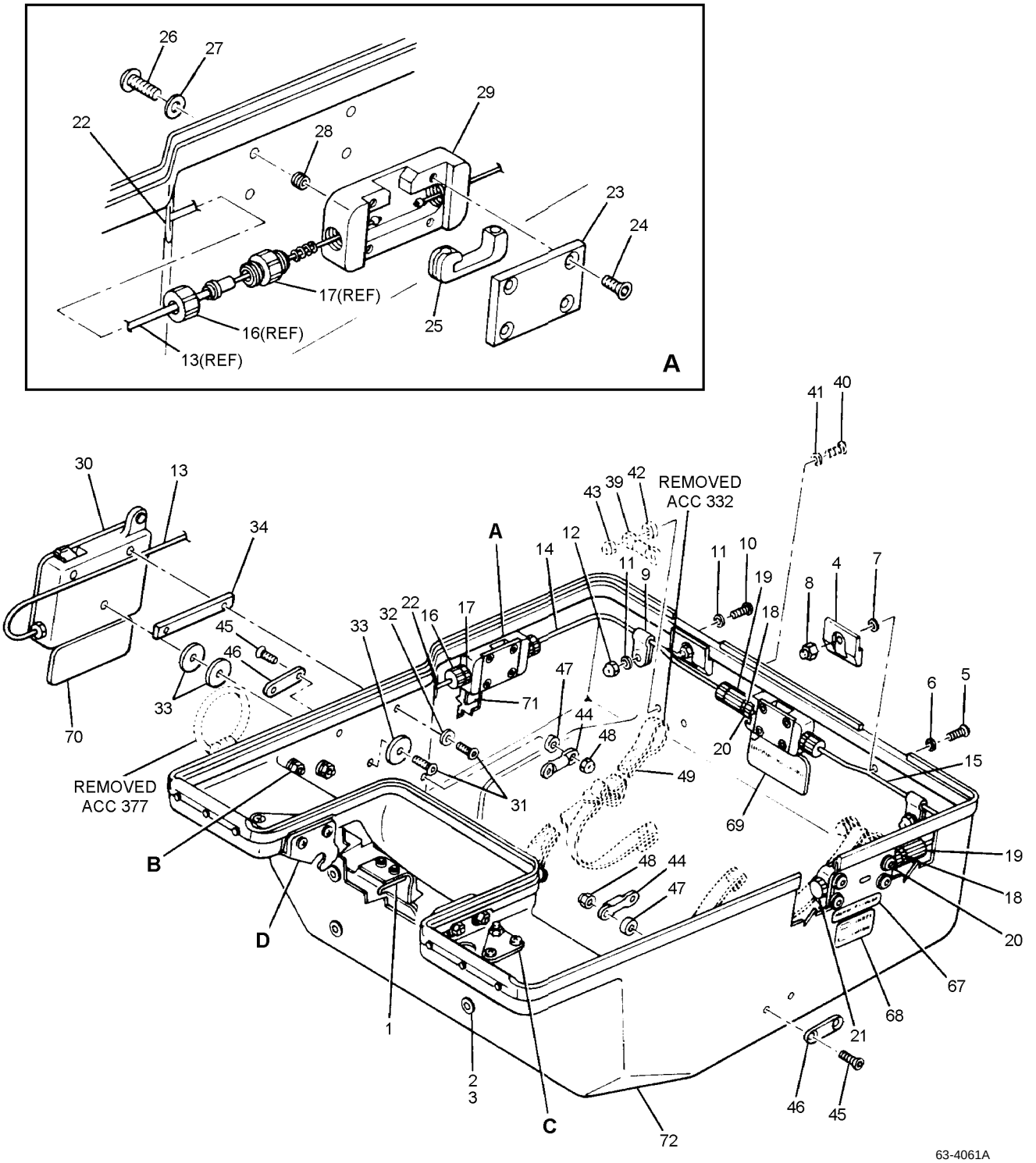


Figure 9-31. Lower Container Assembly (Scott) (Sheet 1 of 2)

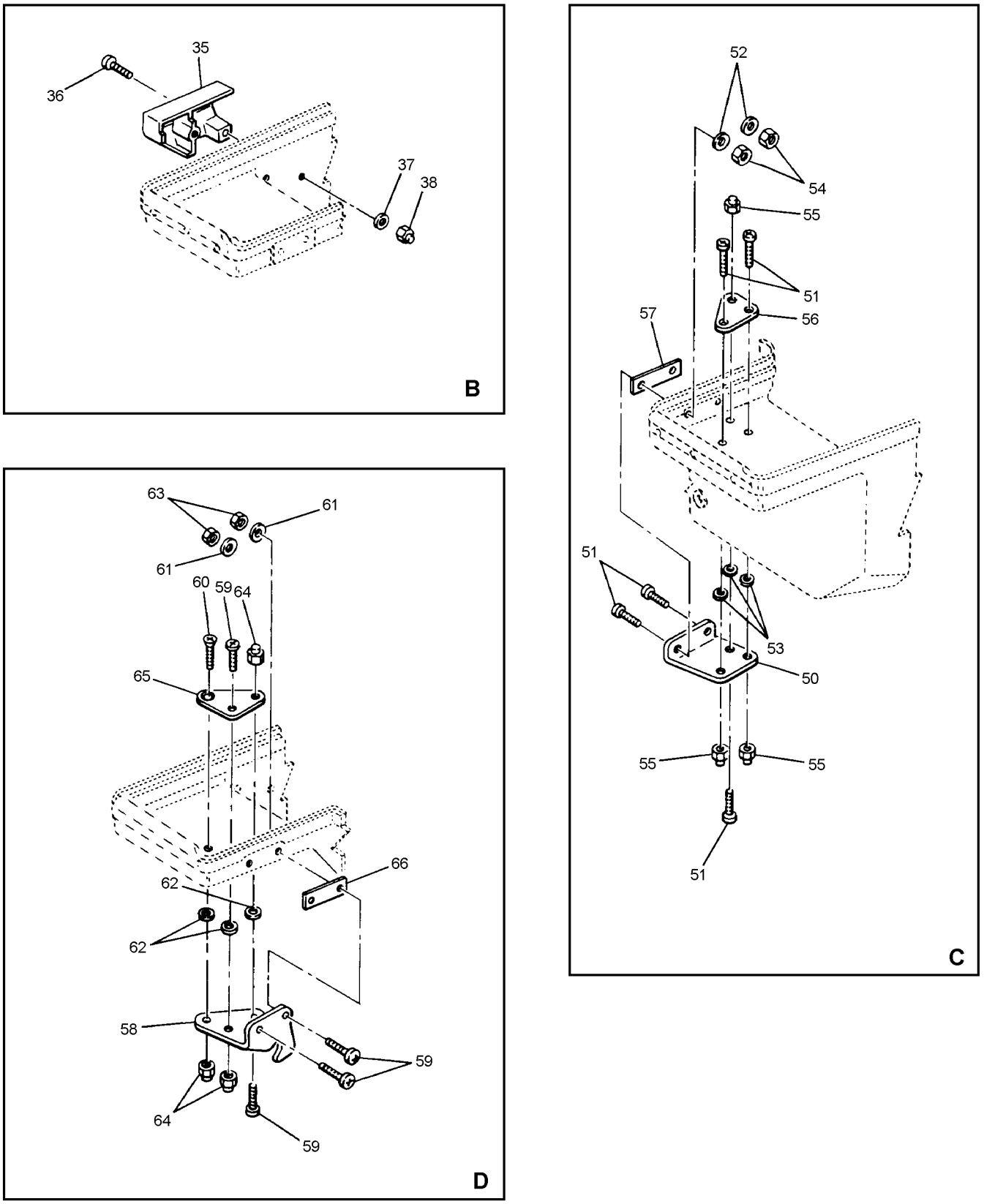
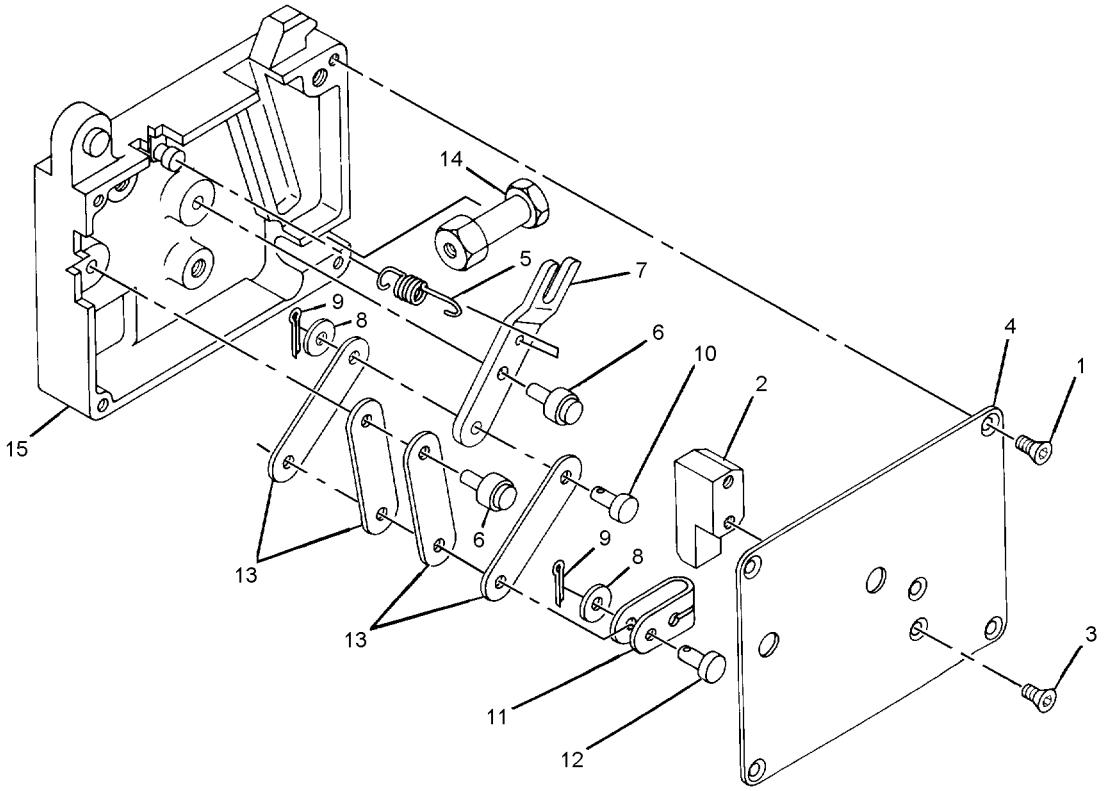


Figure 9-31. Lower Container Assembly (Scott) (Sheet 2 of 2)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
9-31	800729-00	CONTAINER ASSEMBLY, Lower ..... (See figure 9-30 for NHA)	REF	A
	800729-01	CONTAINER ASSEMBLY, Lower ..... (See figure 9-30 for NHA)	REF	B,C
-1	801494-00	. BRACKET ASSEMBLY ..... (ATTACHING PARTS)	1	B,C
-2	MS20470A4-6	. RIVET	4	B,C
-3	AN960C6L	. WASHER ..... ---*---	4	B,C
-4	1195AS107-1	. CLIP (KD)	2	
	234C431P11	. CLIP (30941) (After ACC 377) ..... (ATTACHING PARTS)	2	
-5	MS35206-246	. SCREW (8-32 x 0.62) (KD)	2	
-6	AN960PD8L	. WASHER (KD)	4	
-7	1195AS108-1	. SPACER (KD)	2	
	224B432-11	. SPACER (30941)	2	
-8	22K1-82	. NUT, Cap self-locking (KD) ..... ---*---	2	
-9	MS25281-F2	. CLAMP, Tube ..... (ATTACHING PARTS)	2	
-10	59004	. SCREW, Button head socket	2	
-11	AN960C6L	. WASHER, Flat	4	
-12	19474	. NUT, Hex metal cap ..... ---*---	2	
-13	800733-00	. CONDUIT ASSEMBLY, Release to ..... RH lock	1	
-14	800734-00	. CONDUIT ASSEMBLY, RH lid lock ..... to rear	1	
-15	800735-00	. CONDUIT ASSEMBLY, Rear to LH ..... lid lock	1	
-16	56300	. NUT, Conduit coupling	1	
-17	19974-1	. NIPPLE, Cable assembly	3	
-18	19560	. NUT, Cable adjust lock	2	
-19	19561	. NUT, Adjustment	2	
-20	19974	. NIPPLE, Cable assembly	2	
-21	10001427	. PLUG	1	
-22	MS35489-31S	. GROMMET	1	
-23	10001426	. COVER, Lid lock ..... (ATTACHING PARTS)	3	
-24	55032	. SCREW, Flat head hex socket 82° ..... ---*---	12	
-25	10001452	. SLIDE, Lid lock	3	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
9-31	800732-00	. BODY ASSEMBLY, Lid lock	3	
		(ATTACHING PARTS)		
-26	55037	. SCREW, Button head socket	12	
-27	AN960C10L	. WASHER, Flat	12	
		---*---		
-28	15351	. . INSERT	12	
-29	10001425	. . HOUSING, Lid lock	1	
-30	800101-01	. ACTUATOR ASSEMBLY,	1	
		(See figure 9-32 for BKDN)		
		(ATTACHING PARTS)		
-31	56192	. SCREW, Button head socket	3	
-32	AN960C10L	. WASHER, Flat	2	
-33	AN970-3	. WASHER	3	
-34	1001439	. SPACER	1	
		---*---		
-35	1195AS113-1	. HANDLE PROTECTOR BRACKET (KD)	1	
	234C450-11	. HANDLE PROTECTOR BRACKET (30941)	1	
		(After ACC 377)		
		(ATTACHING PARTS)		
-36	MS35206-232	. SCREW (6-32 x 0.75) (KD)	2	
-37	AN960PD6L	. WASHER (KD)	2	
-38	22K1-62	. NUT, Cap (KD)	2	
		---*---		
-39	55457	. FOOTMAN BRACKET (Before ACC 332)	4	
		(ATTACHING PARTS)		
-40	56260	. SCREW, Button head socket	8	
		(Before ACC 332)		
-41	AN960C6L	. WASHER, Flat (Before ACC 332)	8	
-42	55422	. SPACER (Before ACC 332)	8	
-43	19474	. NUT, Hex metal cap (Before ACC 332)	8	
		---*---		
-44	55457	. FOOTMAN BRACKET	2	
		(ATTACHING PARTS)		
-45	56288	. SCREW, Flathead socket	4	
-46	10001424	. FOOTMAN BRACKET, Reinforcement	2	
-47	55422	. SPACER	4	
-48	19474	. NUT, Hex metal cap	4	
		---*---		
-49	36C1326-1	. STRAP, Retaining	2	
	41783	. STRAP, Retaining (53655) (Before ACC 332)	2	
-50	1195AS102-1	. BRACKET GUIDE, Left (KD)	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
9-31	234D410-11	. BRACKET GUIDE, Left (30941) ..... (After ACC 377) (ATTACHING PARTS)	1	
-51	MS51958-64	. SCREW (10-32 x 0.62) (KD)	5	
-52	AN960PD10L	. WASHER (KD)	2	
-53	1195AS105-1	. WASHER SHIM, Laminated (KD)	3	
	234C412-13	. WASHER SHIM, Laminated (30941)	3	
-54	MS21042-3	. NUT, (Self-locking) (KD)	2	
-55	22K1-02	. NUT, (Cap self-locking) (KD) ..... ---*---	3	
-56	1195AS101-1	. BACKPLATE, Guide bracket (KD)	1	
	102C401-15	. BACKPLATE, Guide bracket (30941) ..... (After ACC 377)	1	
-57	1195AS104-1	. SHIM PLATE, Laminated (KD)	1	
	234C412-11	. SHIM PLATE, Laminated (30941) ..... (After ACC 377)	1	
-58	1195AS103-1	. BRACKET GUIDE, Right (KD)	1	
	234D410-13	. BRACKET GUIDE, Right (30941) ..... (After ACC 377) (ATTACHING PARTS)	1	
-59	MS51958-64	. SCREW (10-32 x 0.62) (KD)	4	
-60	MS24693C272	. SCREW, Flat head (KD) ..... (100° Csk 10-32 x 0.50)	1	
-61	AN960PD10L	. WASHER (KD)	2	
-62	1195AS105-1	. WASHER SHIM, Laminated (KD)	3	
	234C412-13	. WASHER SHIM, Laminated (30941)	3	
-63	MS21042-3	. NUT, (Self-locking) (KD)	2	
-64	22K1-02	. NUT, (Cap self-locking) (KD) ..... ---*---	3	
-65	1195AS101-1	. BACKPLATE, Guide bracket (KD)	1	
	102C401-15	. BACKPLATE, Guide bracket (30941) ..... (After ACC 377)	1	
-66	1195AS104-1	. SHIM PLATE, Laminated (KD)	1	
	234C412-11	. SHIM PLATE, Laminated (30941) ..... (After ACC 377)	1	
-67	56098	. DECAL, Manual lid unlock	3	
-68	10001443	. PLATE, Identification, lid lock	3	
-69	10001407	. PLATE, Identification	1	
-70	10001524	. PLATE, Warning	1	
-71	10001614	. PLATE, Instruction	1	
-72	800730-00	. BOTTOM ASSEMBLY, Container	1	A
	800730-01	. BOTTOM ASSEMBLY, Container	1	B,C



63-410

Figure 9-32. Lid Lock Multi-Release Actuator Assembly (Scott)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
9-32	800101-01	ACTUATOR ASSEMBLY, ... (See figure 9-31 for NHA)	REF	
	800783-00	. COVER ASSEMBLY . . . . . (ATTACHING PARTS)	1	
-1	55032	. SCREW . . . . . ---*---	4	
-2	10001522	. . STOP . . . . . (ATTACHING PARTS)	1	
-3	55032	. . SCREW . . . . . ---*---	2	
-4	10000508	. . COVER	1	
-5	10000543	. SPRING	1	
-6	10000499	. PIN, Spacer	2	
-7	10000504	. LEVER	1	
-8	AN960C6L	. WASHER	2	
-9	MS24665-132	. PIN, Cotter	2	
-10	MS20392-1C7	. PIN	1	
-11	10000502	. CLEVIS	1	
-12	MS20392-1C9	. PIN	1	
-13	10000503	. LINK	4	
-14	10001517	. SLEEVE, Adjusting	1	
-15	800269-01	. BODY ASSEMBLY	1	

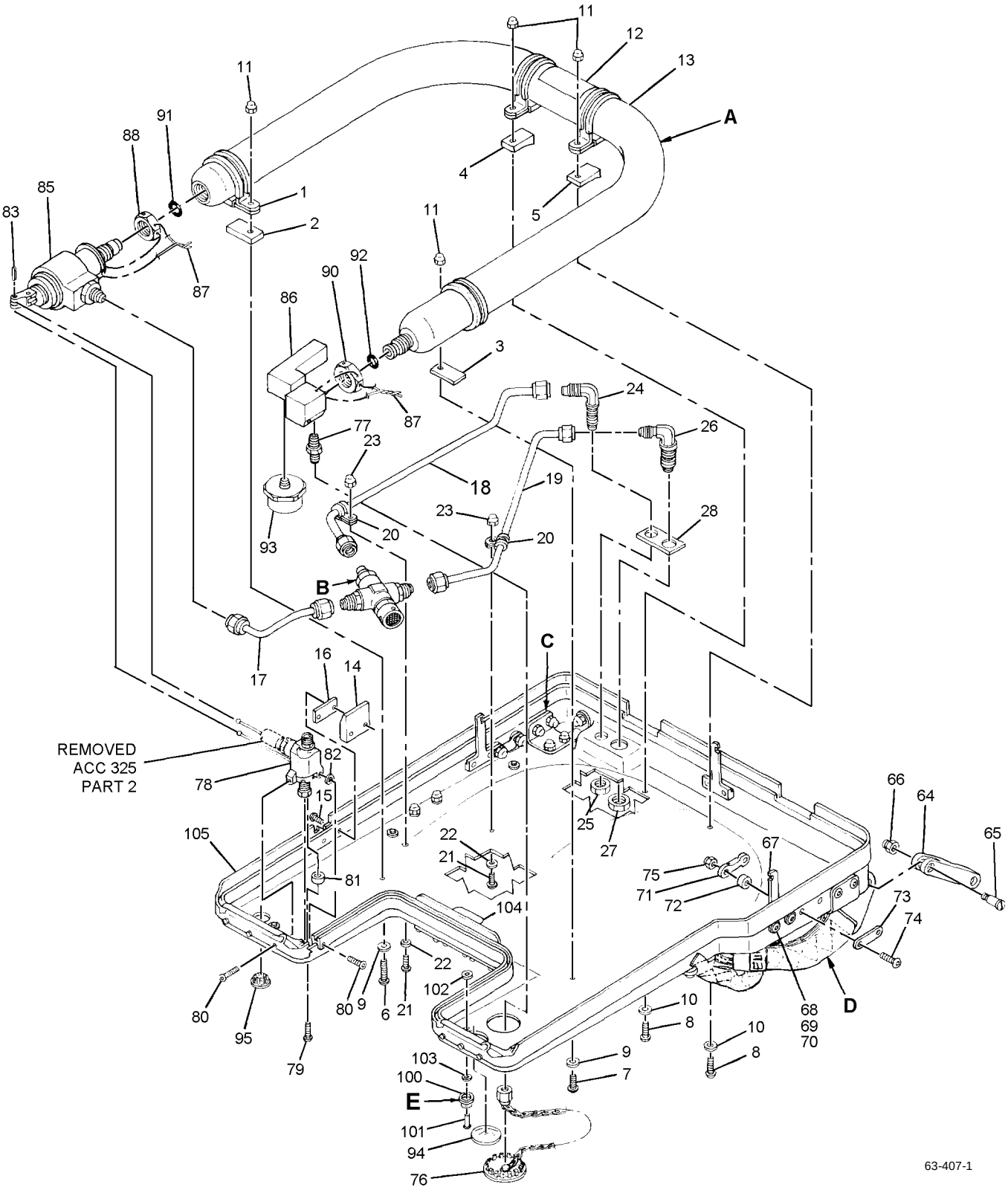
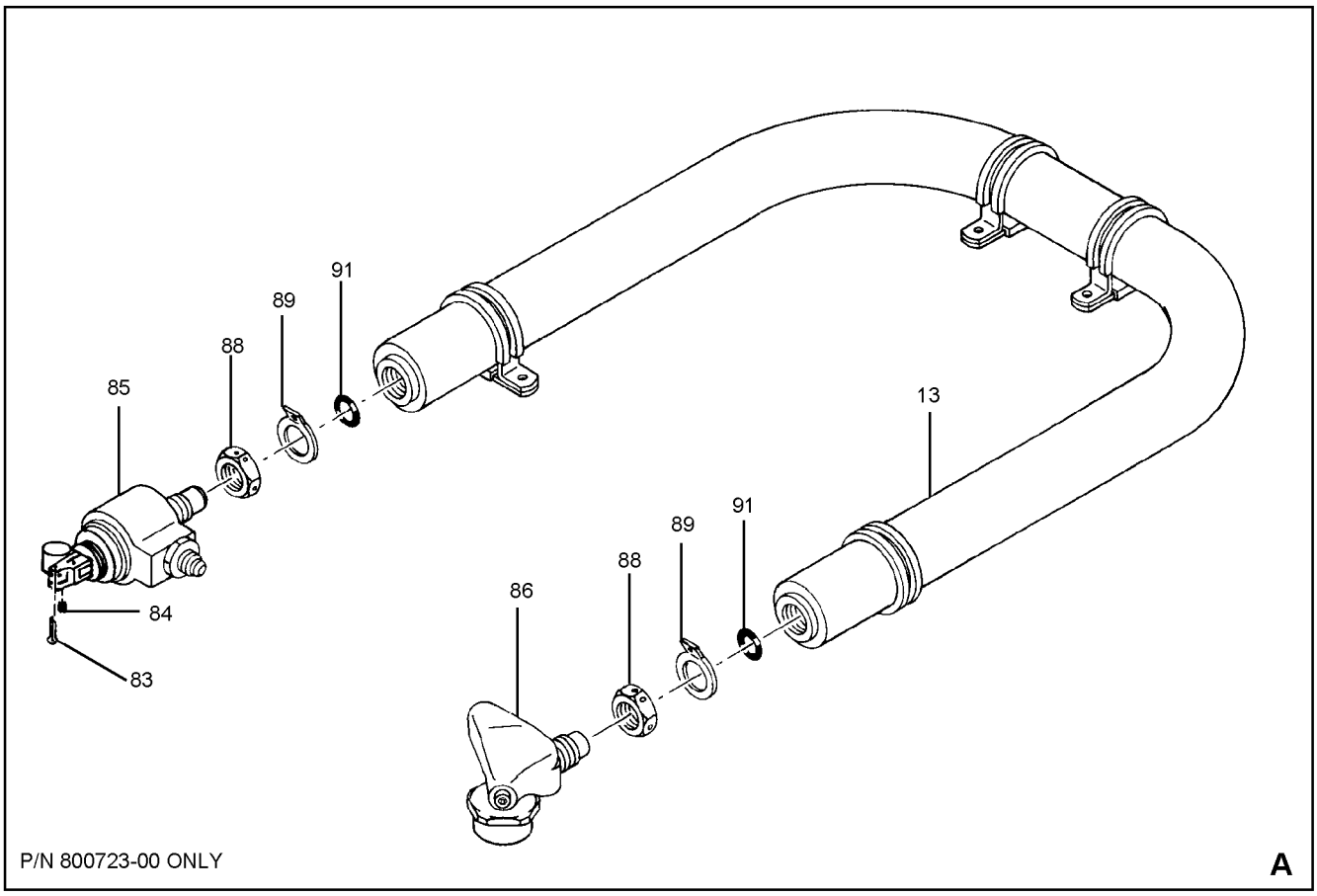
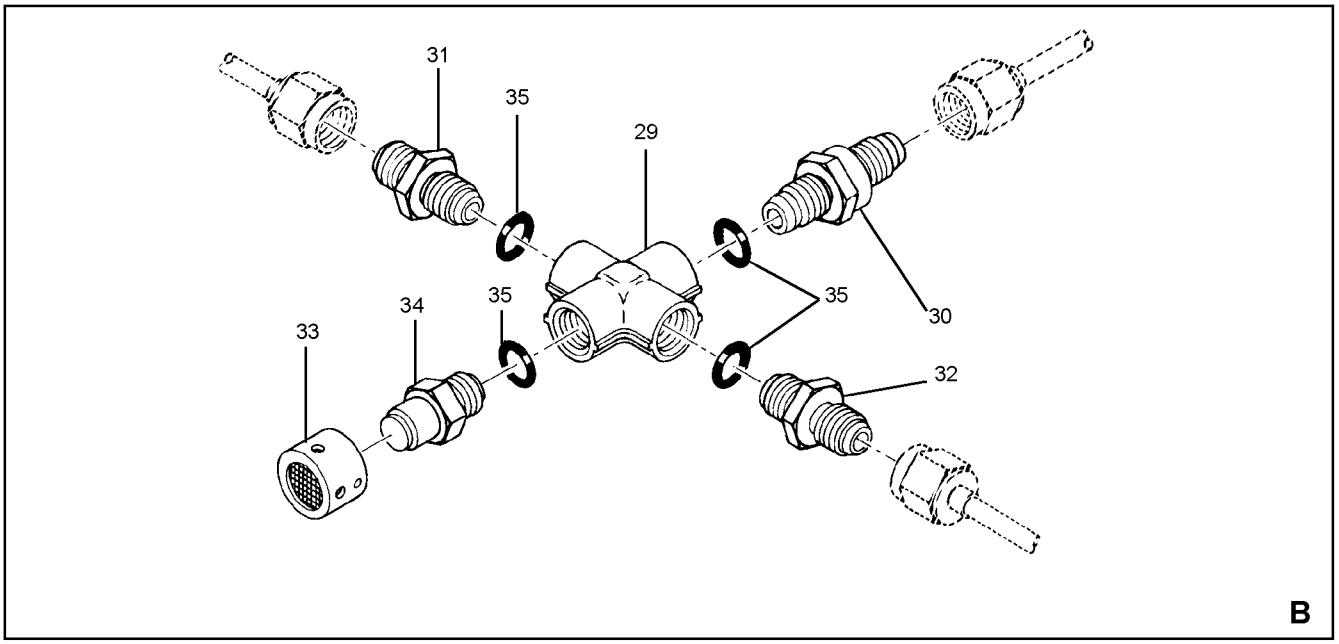


Figure 9-33. Upper Container Assembly (Scott) (Sheet 1 of 3)





63-407-2

Figure 9-33. Upper Container Assembly (Scott) (Sheet 2 of 3)

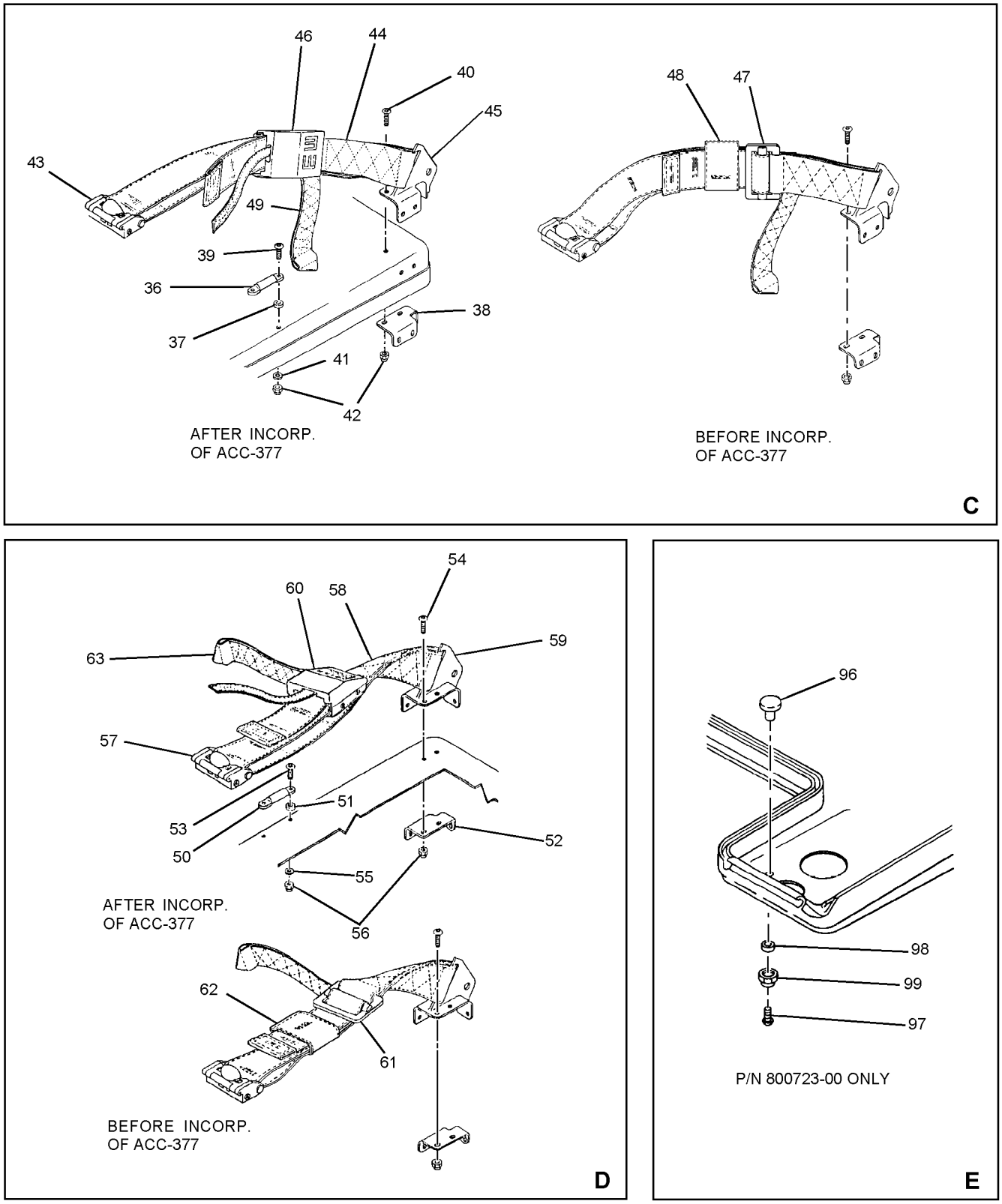


Figure 9-33. Upper Container Assembly (Scott) (Sheet 3 of 3)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
9-33	800723-00	CONTAINER ASSEMBLY, Upper (See figure 9-30 for NHA)	REF	A,B
	800723-01	CONTAINER ASSEMBLY, Upper (See figure 9-30 for NHA)	REF	C
	800740-01	. CYLINDER ASSEMBLY, Oxygen (Replaces 800740-00)	1	A,B
	802175-01	. CYLINDER ASSEMBLY, Oxygen (ATTACHING PARTS)	1	C
-1	MS21919DG-24	. CLAMP, Tube	4	
-2	10001569	. SPACER, 1/8 in. thick	1	
-3	10001733	. SPACER, 1/16 in. thick	1	
-4	10001462	. PAD, Mounting	1	
-5	10001578	. PAD, Mounting	1	
-6	59150-00	. SCREW, Button head	1	
-7	56192	. SCREW, Button head	1	
-8	56202	. SCREW, Button head	2	
-9	AN960C10L	. WASHER, Flat	2	
-10	2832-19	. WASHER	2	
-11	22K2-02	. NUT, Hex ---*---	4	
-12	10001434	. . PLATE, Identification	1	A,B
	10005056	. . PLATE, Identification	1	C
-13	800727-04	. . CYLINDER	1	A,B
	MS90389-8	. . CYLINDER	1	C
-14	10001697	. RESTRAINER (ATTACHING PARTS)	1	
-15	COML	. SCREW, Button head hex socket (6-32 NC-3A x 7/16 lg) (Note 5)	2	A,B
	55039	. SCREW, Button head (Note 5)	2	C
-16	10001818	. SHIM, Strip ---*---	A/R	
-17	800744-00	. TUBE ASSEMBLY, Reducer to cross	1	A,B
	800744-01	. TUBE ASSEMBLY, Reducer to cross	1	C
-18	800742-00	. TUBE ASSEMBLY, Inlet	1	
-19	800743-00	. TUBE ASSEMBLY, Outlet (ATTACHING PARTS FOR INDEX NOS. 18 AND 19)	1	
-20	MS21919DG-4	. CLAMP, Tube	2	
-21	55030	. SCREW, Button head	2	
-22	AN960C10L	. WASHER, Flat	2	
-23	22K2-02	. NUT, Hex ---*---	2	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
9-33-24	AN833-4D	. ELBOW (ATTACHING PARTS)	1	
-25	AN924-4D	. NUT ---*---	1	
-26	58989	. ELBOW (ATTACHING PARTS)	1	
-27	AN924-5D	. NUT ---*---	1	
-28	10001433	. STIFFENER	1	
-29	AN937-4D	. CROSS	1	
-30	59011-00	. CHECK VALVE	1	
-31	800905-00	. CHECK VALVE ASSEMBLY (Replaced by AN815-4D) (Note 2)	1	A,B
	AN815-4D	. UNION (Replaces 800905-00)	1	
-32	AN815-4D	. UNION	1	
-33	800772-00	. CAP ASSEMBLY, Relief valve	1	
-34	524A-4D-130	. RELIEF VALVE (91816) (Supersedes 524A-4D-120)	1	
	D524A-4D-130	. RELIEF VALVE (91816) (Supersedes 524A-4D-120)	1	
-35	2800B4A	. PACKING, Preformed (Replaced by MS28778-4) (Note 3)	4	A,B
	MS28778-4	. PACKING, Preformed (Replaces 2800B4A)	4	
	800739-01	. HARNESS ASSEMBLY, LH	1	A,B
	802196-11	. HARNESS ASSEMBLY, LH (ATTACHING PARTS)	1	C
-36	10001409	. FOOTMAN BRACKET	1	
-37	55422-01	. SPACER	2	
-38	10001445	. STIFFENER, LH	1	
-39	59150-00	. SCREW, Button head	2	
-40	55035	. SCREW, Button head	5	
-41	AN960C10L	. WASHER, Flat	2	
-42	22K2-02	. NUT, Hex ---*---	7	
-43	58874-00	. . RELEASE ASSEMBLY, Lapbelt	1	A,B
	015-11365-1	. . RELEASE ASSEMBLY, Lapbelt (99449) (Note 1)	1	C
-44	800739-01	. . HARNESS	1	A,B
	802196-11	. . HARNESS	1	C
-45	800738-01	. . . BRACKET ASSEMBLY, LH	1	
-46	1195AS114-1	. ADJUSTER, Restraint harness (KD)	1	
	184C100-1	. ADJUSTER, Restraint harness (30941) (After ACC 377) (Interchangeable with 1195AS114-1 in pairs only)	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
9-33-47	MS22040-1	. . ADAPTER	1	
-48	800737-02	. . STRAP LOOP	1	A,B
	802196-17	. . STRAP LOOP	1	C
-49	1195AS115-1	. ANTI-ROTATION STRAP, LH (KD)	1	
	234C600-1	. ANTI-ROTATION STRAP, LH (30941) (After ACC 377)	1	
	800737-01	. HARNESS ASSEMBLY, RH	1	A,B
	802196-12	. HARNESS ASSEMBLY, RH (ATTACHING PARTS)	1	C
-50	10001409	. FOOTMAN BRACKET	1	
-51	55422-01	. SPACER	2	
-52	10001446	. STIFFENER, RH	1	
-53	59150-00	. SCREW, Button head	2	
-54	55030	. SCREW, Button head	5	
-55	AN960C10L	. WASHER, Flat	2	
-56	22K2-02	. NUT, Hex ---*---	7	
-57	58874-00	. . RELEASE ASSEMBLY, Lapbelt	1	A,B
	015-11365-1	. . RELEASE ASSEMBLY, Lapbelt (99449) (Note 1)	1	C
-58	800737-01	. . HARNESS	1	A,B
	802196-12	. . HARNESS	1	C
-59	800738-00	. . . BRACKET ASSEMBLY, RH	1	
-60	1195AS114-1	. ADJUSTER, Restraint harness (KD)	1	
	184C100-1	. ADJUSTER, Restraint harness (30941) (After ACC 377) (Interchangeable with 1195AS114-1 in pairs only)	1	
-61	MS22040-1	. . ADAPTER	1	
-62	800737-02	. . STRAP LOOP	1	A,B
	802196-17	. . STRAP LOOP	1	C
-63	1195AS115-2	. ANTI-ROTATION STRAP, RH (KD)	1	
	234C600-2	. ANTI-ROTATION STRAP, RH (30941) (After ACC 377)	1	
-64	10001422	. LUG, Locking-rear (ATTACHING PARTS)	2	
-65	10001423	. SCREW, Shoulder	2	
-66	574373	. NUT, Hex ---*---	2	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
9-33-67	1195AS109-1	. LATCH, Lid universal (KD)	3	
	230C535-13	. LATCH, Lid, universal (30941) (After ACC 377) (ATTACHING PARTS)	3	
-68	MS51958-63	. SCREW (10-32 x 0.50) (KD)	6	
-69	AN960PD10L	. WASHER (KD)	6	
-70	1195AS110-1	. SHIM, Tapered (1°-30') (KD)	3	
	230C536-11	. SHIM, Tapered (1°-30') (30941)	3	
	1195AS111-1	. SHIM, Tapered (3°) (KD)	3	
	230C536-13	. SHIM, Tapered (3°) (30941)	3	
	1195AS112-1	. SHIM, Tapered (6°) (KD)	3	
	230C536-15	. SHIM, Tapered (6°) (30941) ---*---	3	
-71	55457	. FOOTMAN BRACKET (ATTACHING PARTS)	2	
-72	55422	. SPACER	4	
-73	55483	. FOOTMAN BRACKET, Reinforcement	2	
-74	59151-00	. SCREW, Button head	4	
-75	19474	. NUT, Hex ---*---	4	
-76	20072-3	. PLUG BUTTON ASSEMBLY	1	
-77	800668-00	. FILLER VALVE ASSEMBLY	1	A,B
	9120097-27	. FILL VALVE (Note 9)	1	
-78	800755-00	. ACTUATOR ASSEMBLY, Emergency O_2 (See figure 9-34 for BKDN)	1	A,B
	800755-01	. ACTUATOR ASSEMBLY, Emergency O_2 (See figure 9-34 for BKDN) (ATTACHING PARTS)	1	C
-79	59036-00	. SCREW, Button head (Note 4)	1	
-80	COML	. SCREW, Button head, hex socket (4-40 UNC x 3/8 lg) (Note 4)	2	A,B
	56213	. SCREW, Button head (Note 5)	2	C
-81	20526-2	. SPACER, Laminated	1	
-82	AN960C4	. WASHER, Flat ---*---	1	
-83	MS24665-87	. PIN, Cotter	1	A,B
	MS171433	. PIN, Spring	1	C
-84	AN515-2-4	. SCREW, Round head (Note 5)	1	A,B
-85	800726-10	. PRESSURE REDUCER ASSEMBLY (See figure 9-35 for BKDN) (Replaces 800726-00) (Note 6)	1	AB
	800726-11	. PRESSURE REDUCER ASSEMBLY (See figure 9-35 for BKDN) (Replaces 800726-01) (Note 7)	1	AB

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
9-33	800726-12	. PRESSURE REDUCER ASSEMBLY ..... (See Figure 9-35 for BKDN) (Replaces 800726-02)	1	C
-86	800745-00	. MANIFOLD ASSEMBLY	1	A,B
	802174-01	. MANIFOLD ASSEMBLY	1	C
-87	MS20995C20	. LOCKWIRE	A/R	
-88	10001454	. NUT, Lock	2	A,B
	10001454	. NUT, Lock	1	C
-89	10001696	. RING, Lock	2	A,B
-90	10005057	. NUT, Lock	1	C
-91	MS28775-111	. PACKING, Preformed	2	A,B
	MS28775-111	. PACKING, Preformed	1	C
-92	MS28775-012	. PACKING, Preformed	1	
-93	20430	. GAGE	1	
-94	56593	. WINDOW	1	
-95	57827	. PLUG, Button	1	
	7605765	. PLUG, Button (Alternate for 57827)	1	
-96	MS27983-3	. EYELET ASSEMBLY ..... (ATTACHING PARTS)	1	A,B
-97	59152-00	. SCREW, Binding head	6	A,B
-98	10001844	. SPACER	6	A,B
-99	MS27983-2	. STUD ..... ---*---	6	A,B
-100	MS27983-2	. STUD ..... (ATTACHING PARTS)	6	C
-101	MS20613-4P8	. RIVET	6	C
-102	AN960PD4	. WASHER	6	C
-103	NAS42DD4-7	. SPACER ..... ---*---	6	C
-104	100-1435	. PLATE, Identification	1	
-105	800724-00 REV. L	. UPPER CONTAINER ASSEMBLY ..... (Note 3)	1	A,B
	800724-00	. UPPER CONTAINER ASSEMBLY	1	C

Notes:
1. When replacing lapbelt assembly, apply sealing, locking, and retaining compound, MIL-S-22473, to shoulder screws.
2. Check valve 800905-00 replaced by union AN815-4D to relieve back pressure on pressure reducer assembly.
3. Preformed packing 2800B4A used on kits serial numbers 101 through 233 shall be replaced by preformed packing MS28778-4. All kits will use MS28778-4 in lieu of 2800B4A.
4. Seal with Loctite, Grade E per MIL-S-22473.

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
	Notes (cont): 5. Seal with Loctite, Grade C per MIL-S-22473. 6. Pressure reducer 800726-10 is used on kits serial numbers 101 through 451. 7. Pressure reducer 800726-11 is used on kits serial numbers 452 through 521. 8. When ordering this replacement part, REVISION L must directly follow the P/N. Example (800724-00 REV. L) 9. Fill Valve can be used as an alternate to replace Filler Valve Body Assembly P/N 800668-00.			

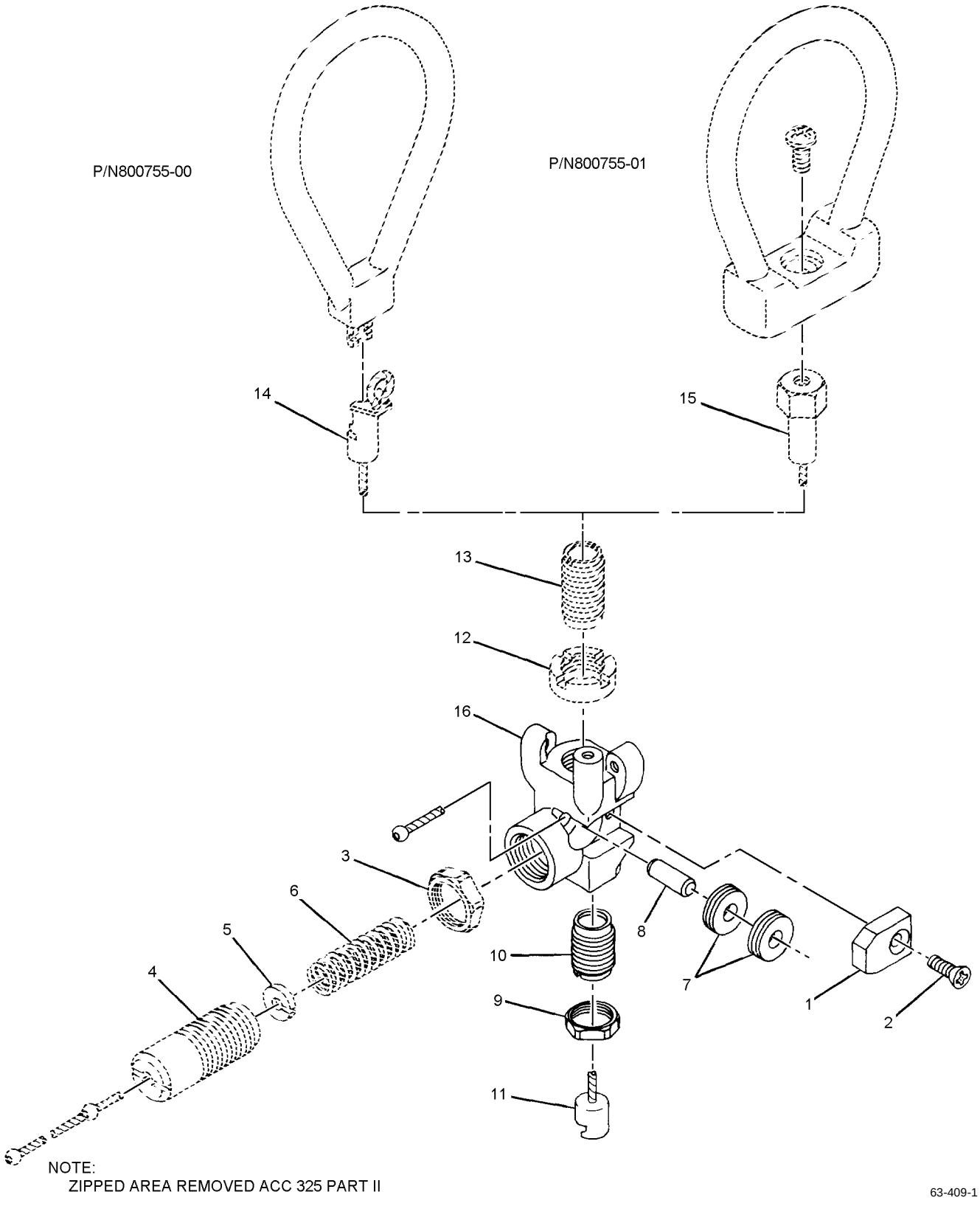


Figure 9-34. Emergency O_2 Actuator Assembly (Scott) (Sheet 1 of 2)

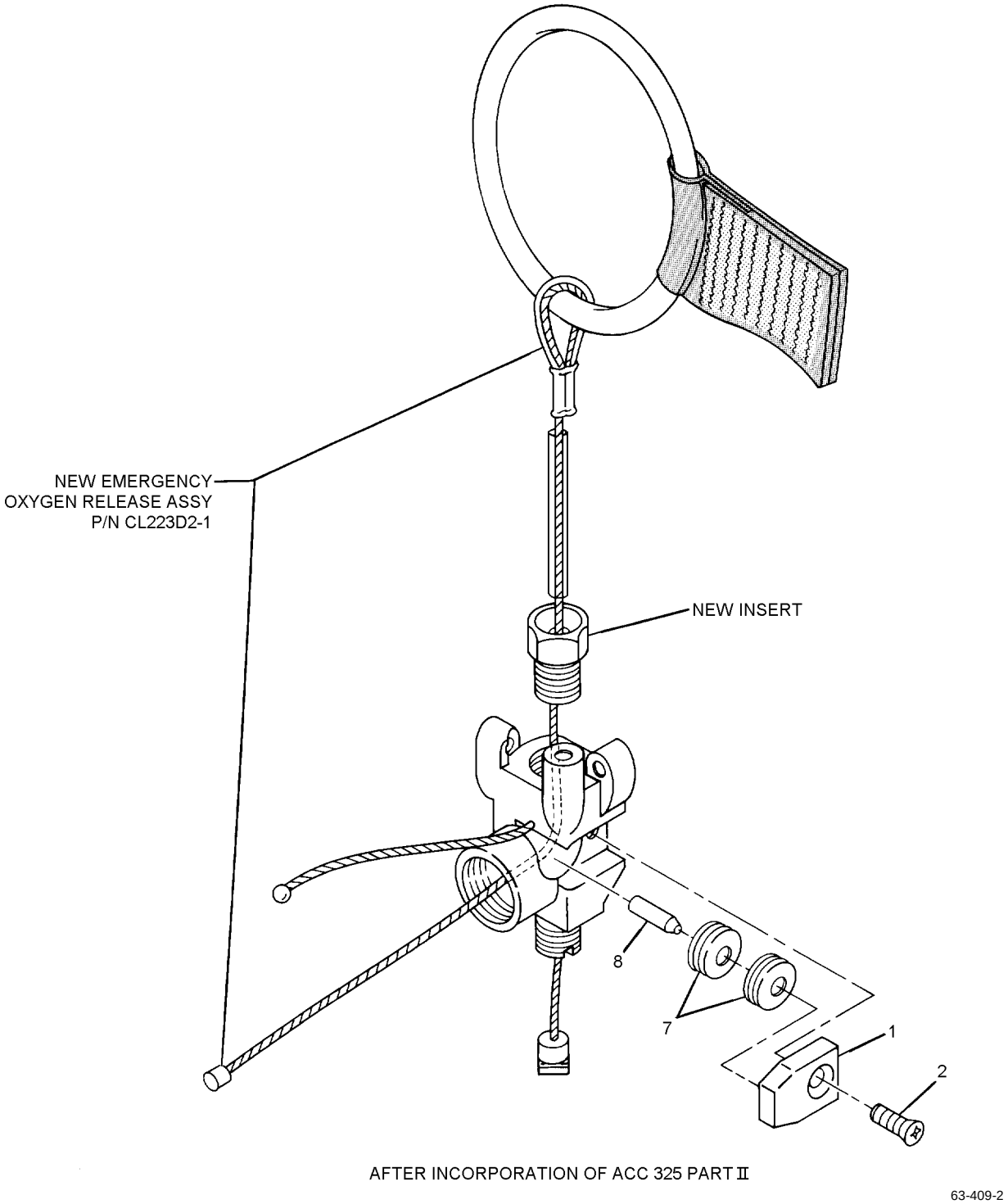


Figure 9-34. Emergency O_2 Actuator Assembly (Scott) (Sheet 2 of 2)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
9-34	800755-00	ACTUATOR ASSEMBLY, Emergency O_2 ..... (See figure 9-33 for NHA)	REF	A,B
	800755-01	ACTUATOR ASSEMBLY, Emergency O_2 ..... (See figure 9-33 for NHA)	REF	C
-1	10001466	. COVER	1	
-2	AN505C4R6	. SCREW, (Note 1)	1	
-3	10001472	. NUT (Note 2)	1	
-4	10001491	. HOUSING, Spring (Note 2)	1	
-5	10001492	. RETAINER, Spring (Note 2)	1	
-6	10001476	. SPRING (Note 2)	1	
-7	10001465	. PULLEY	2	
-8	59023	. PIN	1	
-9	56182	. NUT	1	
-10	10001470	. SLEEVE	1	
-11	800757-00	. CONNECTOR AND CABLE ASSEMBLY	1	
-12	10001610	. NUT, Lock (Note 2)	1	
-13	10001469	. SLEEVE (Note 2)	1	
-14	800756-00	. CABLE ASSEMBLY (Note 2)	1	A,B
-15	801214-00	. CONNECTOR AND CABLE ASSEMBLY ..... (Note 2)	1	C
-16	10001464	. BODY	1	
	Notes: 1. Apply Loctite Grade E, per MIL-S-22473. 2. Removed ACC 325 Part II.			

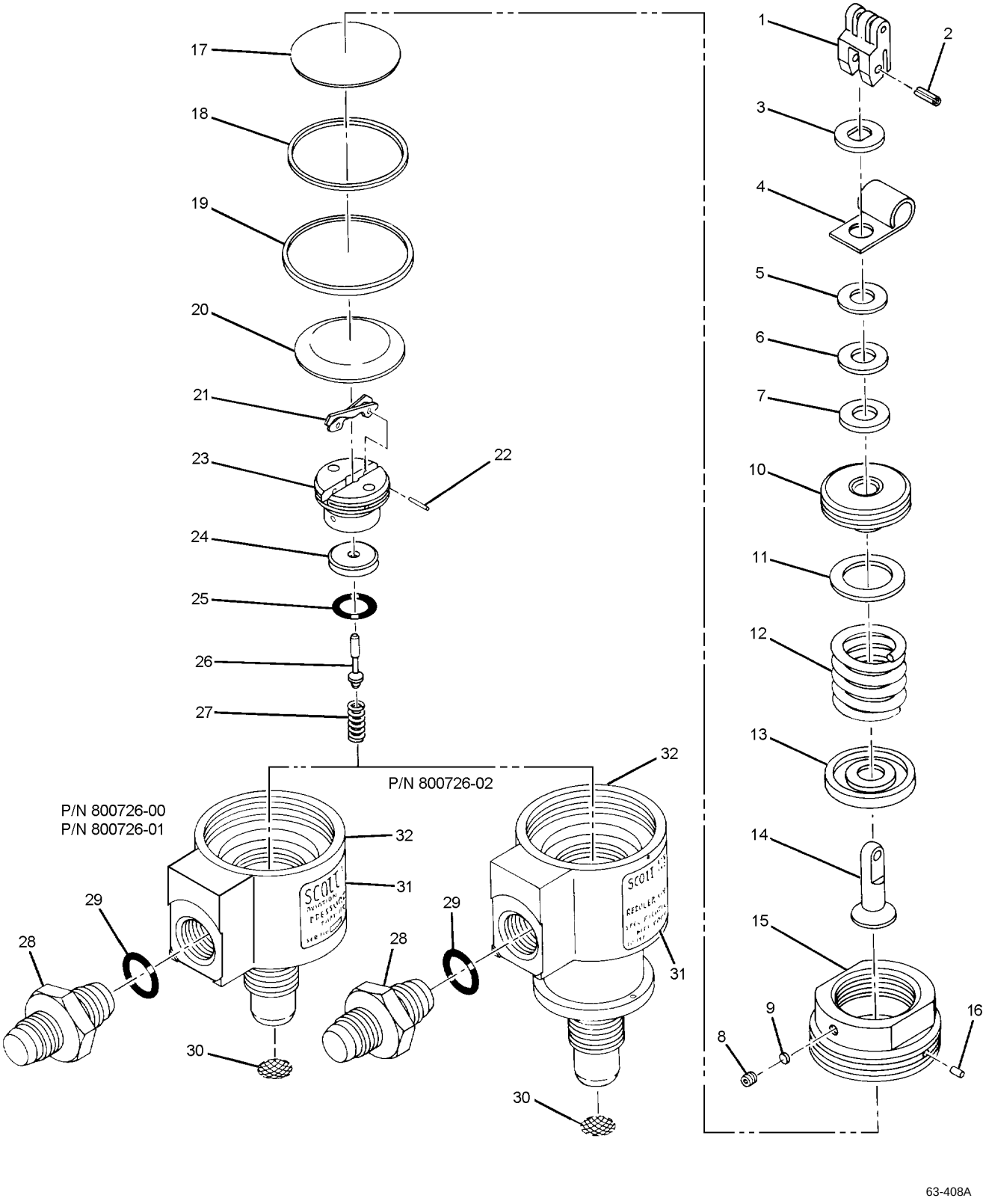


Figure 9-35. Pressure Reducer Assembly (Scott)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
9-35	800726-00	PRESSURE REDUCER ASSEMBLY, ... (See figure 9-33 for NHA)	REF	A
	800726-01	PRESSURE REDUCER ASSEMBLY, ... (See figure 9-33 for NHA)	REF	B
	800726-02	PRESSURE REDUCER ASSEMBLY, ... (See figure 9-33 for NHA)	REF	C
	800726-10	PRESSURE REDUCER ASSEMBLY, ... (See figure 9-33 for NHA)	REF	D
	800726-11	PRESSURE REDUCER ASSEMBLY, ... (See figure 9-33 for NHA)	REF	E
	800726-12	PRESSURE REDUCER ASSEMBLY, ... (See figure 9-33 for NHA)	REF	F
-1	10001414	. ARM, Toggle	1	A,B
	10005195	. ARM, Toggle	1	C,D,E,F
-2	MS171494	. PIN, Spring	1	
-3	22021	. SPACER	A/R	A,D
	22021-01	. SPACER	1	B,C,E,F
-4	10001809	. SPRING	1	A,D
-5	20364	. SPACER	A/R	
-6	20364-1	. SPACER	A/R	
-7	20364-2	. SPACER	A/R	
-8	AN565D6H2	. SETSCREW	1	
-9	20082	. INSERT, Nylon	1	
-10	20042-3	. RETAINER	1	
-11	10005311	. SPACER	1	B,C,E,F
-12	10000947	. SPRING	1	
-13	22293-1	. PLATE, Thrust	1	
-14	10001417	. PIN, Thrust	1	
-15	20041	. SLEEVE	1	
-16	11622-04	. PLUG	1	
-17	10002468	. PLATE, Thrust	1	A,D
	10005310	. PLATE, Thrust	1	B,C,E,F
-18	11597	. RING, Slip (Note 1)	1	
-19	11594	. DIAPHRAGM	1	
-20	20057	. PLATE, Thrust	1	
-21	26183	. LEVER, Actuating	2	
-22	2836-2	. PIN	2	
-23	10000945	. GUIDE	1	
-24	22199-1	. SEAT, Valve	1	A,B,C
	22199-02	. SEAT, Valve	1	D,E,F
-25	2800A6A	. PACKING, Preformed	1	
-26	10001148	. STEM, Valve	1	
-27	10000948	. SPRING	1	
-28	AN815-4D	. UNION	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
9-35-29	MS28778-4	. PACKING, Preformed	1	
-30	8820-2	. FILTER	1	
-31	10001410	. PLATE, Identification	1	A
	10003772	. PLATE, Identification	1	B
	10005162	. PLATE, Identification	1	C
	27494-00	. PLATE, Identification	1	D
	27494-01	. PLATE, Identification	1	E
	27494-02	. PLATE, Identification	1	F
-32	10001408	. BODY	1	A,B,D,E
	10005055	. BODY	1	C,F
	Notes: 1. Apply Rulon Spray to both sides, Dixon Corp., Bristol, Rhode Island.			

NUMERICAL INDEX (RSSK-8 ROCKET JET)

Part Number	Figure and Index Number	SM&R Code
AN121603	9-27-11	
AN507C632-R10	9-19-59	XBGZZ
AN515C4-4	9-22-32	XAGZZ
	9-23-29	
AN565DC6H2	9-22-3	
AN6289D-3	9-22-41	
AN6289D4	9-21-20	
AN6289D5	9-21-28	
AN809-1	9-22-36	
AN814-3D	9-22-23	
AN815-4D	9-21-31	
AN833-4D	9-21-19	
AN937-4D	9-21-33	XBGZZ
AN960C10	9-19-46	
	9-20-39	
AN960C10L	9-19-19	
	9-19-53	
	9-21-9	
	9-21-17	
	9-21-24	
	9-21-51	
AN960C3	9-19-63	XBGZZ
AN960C4	9-22-33	XAGZZ
	9-23-30	
AN960C4L	9-27-12	
AN960C6L	9-19-18	
	9-19-35	
	9-19-40	
	9-20-18	
	9-20-22	
	9-21-55	
AN960PD-4	9-19-58	
	9-20-49	
AN960PD10L	9-19-3	
	9-19-10	
	9-20-3	
	9-20-10	
	9-20-28	
	9-21-59	
AN960PD6L	9-19-49	
AN960PD8L	9-19-29	
	9-20-32	
AN970-3	9-19-45	
	9-20-38	
BS18-6.2-0.5	9-22-8	
	9-23-7	
CL204D2-1	9-19-56	
	9-20-47	
CL223D2-1	9-24-14	
	9-25-29	
CL223D2-3	9-24-16	
	9-25-31	
CL223D2-4	9-24-17	
	9-25-32	
CL223D2-9	9-24-15	
	9-25-30	
CL223D999-1	9-18	
CL223D999-2	9-18	
COML	9-19-17	
	9-19-20	
	9-19-25	
	9-19-26	
	9-19-34	
	9-19-39	
	9-19-44	
	9-19-52	
	9-19-17	
	9-20-21	
	9-20-37	
	9-20-43	
	9-20-54	
	9-21-5	
	9-21-8	
	9-21-16	
	9-21-23	
	9-21-37	
	9-21-44	
	9-21-45	
	9-21-46	
	9-21-49	
	9-21-54	
	9-21-62	
	9-21-64	
	9-21-69	
	9-27-1	
	9-27-3	
	9-28-2	
	9-29-2	
CS-10	9-22-9	XBGZZ
D524A-4D-130	9-21-29	
MS134352	9-22-20	
	9-23-18	
MS20392-1C17	9-22-2	
	9-23-3	
MS204704A-7	9-19-57	
	9-20-48	
MS20613-4C4	9-27-8	
MS2066-4C2	9-25-27	XAGZZ

NUMERICAL INDEX (RSSK-8 ROCKET JET) (Cont)

Part Number	Figure and Index Number	SM&R Code
MS21042-3	9-19-5	
	9-19-12	
	9-20-5	
	9-20-12	
MS21919-DG24	9-21-7	
MS21919-DG4	9-21-15	
	9-21-22	
MS22040-1	9-21-41	
MS24665-151	9-22-1	
	9-23-1	
	9-27-13	
MS24665-229	9-23-2	
MS24677-8	9-22-13	
MS24693C272	9-19-9	
	9-20-9	
MS25281-F2	9-19-33	
	9-19-38	
	9-20-26	
MS25281-F3	9-20-26	
MS27983-2	9-21-66	
	9-33-99	
	9-33-100	
MS27983-3	9-21-65	
	9-33-96	
MS28773-03	9-22-40	
MS35206-232	9-19-48	
MS35206-246	9-19-28	
	9-20-31	
MS35207-262	9-20-27	
MS35490-25	9-19-54	
	9-20-45	
MS51958-63	9-21-58	
MS51958-64	9-19-2	
	9-19-8	
	9-20-2	
	9-20-8	
MS51965-52	9-25-20	XBGZZ
P60FS6-32-8CR	9-23-11	
RAL2487	9-25-9	XAGZZ
	9-25-13	
	9-25-19	
RAL2487-041-125	9-24-3	
	9-24-6	
RAL2487-2	9-25-28	XAGZZ
RA2500-2	9-25-26	XAGZZ
RA6170	9-24-2	XAGZZ
	9-24-5	
	9-25-10	
	9-25-12	
	9-25-18	
RA6170-2	9-25-24	
015-11365-1	9-18-5	PAOZZ
0300-022-0500M	9-25-21	
102C401-15	9-19-14	
	9-20-14	
119016	9-28-7	
1195AS101-1	9-19-14	PAGZZ
	9-20-14	
1195AS102-1	9-19-1	PAGZZ
	9-20-1	
1195AS103-1	9-19-7	PAGZZ
	9-20-7	
1195AS104-1	9-19-15	
	9-20-15	
1195AS105-1	9-19-4	
	9-19-11	
	9-20-4	
	9-20-11	
1195AS106-1	9-18-4	PAGZZ
1195AS107-1	9-19-27	PAGZZ
	9-20-30	
1195AS108-1	9-19-30	PAGZZ
	9-20-33	
1195AS109-1	9-21-57	PAGZZ
1195AS110-1	9-21-60	
1195AS111-1	9-21-60	
1195AS112-1	9-21-60	
1195AS113-1	9-19-47	PAGZZ
1195AS114-1	9-21-40	PAGZZ
1195AS115-1	9-21-43	
1195AS115-2	9-21-43	
1195AS116-1	9-18-17	
142001-1	9-28-8	
142001-7	9-28-6	PAOZZ
142007	9-28-5	
142010	9-24-11	
	9-25-3	
142066-2	9-28-4	
184C100-1	9-21-40	
195010	9-26-11	XAGZZ
195011	9-26-10	
195012	9-26-9	
195015	9-26-3	
195016-1	9-26-4	

NUMERICAL INDEX (RSSK-8 ROCKET JET) (Cont)

Part Number	Figure and Index Number	SM&R Code
195016-3	9-26-5	
195018	9-19	
195019	9-19-69	XAGZZ
195047	9-26	XAGZZ
195048	9-26-6	
22K1-02	9-19-6	
	9-19-13	
	9-20-6	
	9-20-13	
	9-20-29	
22K1-62	9-19-50	
22K1-82	9-19-31	
	9-20-34	
22K2-02	9-21-10	XAGZZ
	9-21-18	
	9-21-25	
	9-21-38	
	9-21-52	
	9-21-63	
22K2-048	9-21-36	
22K2-62	9-19-19	
	9-19-22	
	9-19-36	
	9-19-41	
	9-20-19	
	9-20-23	
	9-21-56	
224B432-11	9-19-30	
	9-20-33	
224C300-1	9-18-4	
22414	9-25-25	
230C535-1	9-21-57	
230C536-11	9-21-60	
230C536-13	9-21-60	
230C536-15	9-21-60	
234A100-1	9-18	
	9-30	
234C412-11	9-19-15	
	9-20-15	
234C412-13	9-19-4	
	9-20-4	
	9-19-11	
234C431-11	9-19-27	
	9-20-30	
234C450-11	9-19-47	
234C600-1	9-21-43	
234C600-2	9-21-43	
234D410-11	9-19-1	
	9-20-1	
234D410-13	9-19-7	
195016-3	9-20-7	
234D412-13	9-20-11	
24410-1	9-24-7	
	9-25-14	
255211-1	9-21-48	PAGZZ
255212-1	9-21-50	
255453	9-20	
255454	9-20-60	
255455	9-20	
255456	9-20-52	
255457	9-20-57	
255463	9-20-58	
255464-1	9-20-51	
255511	9-28-3	
2624A-4TT	9-21-30	XAGZZ
264003	9-28-9	
	9-29-8	
283100-17	9-18-14	
	9-20	
283100-7	9-18-14	XAGGG
	9-19	
283101-17	9-20-46	
283101-7	9-19-55	XAGGG
283116	9-19-32	PAOZZ
283117	9-19-37	PAOZZ
283118	9-19-42	PAOZZ
283130	9-19-51	PAOZZ
	9-28	
283131-1	9-28-12	XAGZZ
283131-2	9-28-12	XAGZZ
283133	9-28-1	XAGZZ
283140	9-19-51	PAOZZ
	9-28	
283150	9-19-51	PAOZZ
	9-28	
283164	9-24-4	
	9-25-11	
283165	9-25-16	XAGZZ
283166	9-25	XAGZZ
283168	9-21-1	
	9-24-13	
	9-25	

NUMERICAL INDEX (RSSK-8 ROCKET JET) (Cont)

Part Number	Figure and Index Number	SM&R Code
283169	9-25	XAGZZ
283170	9-24-8	XAGZZ
	9-25-7	
283171	9-25-8	XAGZZ
283180-1	9-25	PAOZZ
283181	9-24-12	XAGZZ
	9-25-15	
283182	9-24-10	XAGZZ
	9-25-5	
283184-1	9-25	XAGZZ
283185	9-24	XAGZZ
	9-25	
283190	9-25-1	PAOZZ
283193	9-25-2	
283200-17	9-18-6	
	9-21	
283200-7	9-18-6	XAGGG
	9-21	
283201-17	9-21-67	
283201-7	9-21-67	XAGGG
283206-1	9-21-11	PAOZZ
283207-1	9-21-12	PAOZZ
283216	9-21-35	
283222	9-21-26	
283235	9-21-27	
283254-1	9-21-47	
283254-2	9-21-47	
283273-1	9-21-39	XAGZZ
283273-2	9-21-39	XAGZZ
283274-1	9-21	PAOZZ
283274-2	9-21	PAOZZ
283275	9-21-34	
283277-1	9-21-61	
283277-2	9-21-61	
283277-3	9-21-61	
283277-4	9-21-61	
283278	9-21-42	
283280	9-21	PAOZZ
283300-7	9-18	PAOZZ
283310-7	9-18-2	XAGGG
283320-7	9-18-3	XAGGG
283470-7	9-18-11	
283472	9-18-12	
283480	9-21-2	
	9-25	
283490	9-18	
283491	9-18-8	
283492	9-18-7	
283500	9-19-43	PAOGG
	9-26	
283501	9-26	XAGZZ
283502	9-26-17	XAGZZ
283504	9-26-1	
283505	9-26-7	PAOZZ
283557	9-19-60	XAGZZ
283606	9-22-43	PAOZZ
283607	9-22-46	
	9-23-39	
283608	9-22-45	
	9-23-38	
283650-7	9-21-6	
	9-22	
283650-9	9-21-6	
	9-23	
283685	9-21-13	PAOZZ
283686	9-21-14	PAOZZ
283687	9-21-21	PAOZZ
283690	9-25-17	XAGZZ
3-903E515-80	9-22-28	
	9-23-21	
308187	9-19-24	XAGZZ
308188	9-19-23	XAGZZ
308411	9-21-70	
327553	9-19-62	XAGZZ
327554	9-19-61	XAGZZ
327555	9-19-64	XAGZZ
327556	9-19-65	XAGZZ
347170	9-18-1	PAOZZ
	9-19	
347171-1	9-19-70	XAGZZ
347171-2	9-19-71	XAGZZ
3591-3CN-0.0285	9-28-11	
3591-3CN-0.190	9-26-16	
36D1321	9-18-9	
365600-3	9-22-48	PAOGG
	9-23-41	
365605	9-22-49	
	9-23-42	
365623	9-24-9	XAGZZ
	9-25-6	
365624-3	9-25-4	
365680	9-22-39	
365682	9-25-23	XAGZZ
365695	9-22-31	PAOZZ

NUMERICAL INDEX (RSSK-8 ROCKET JET) (Cont)

Part Number	Figure and Index Number	SM&R Code
365695	9-23-28	
365700-1	9-19-16	PAOZZ
	9-20-16	
	9-21-53	
365703	9-27-9	
365704-1	9-27-17	
365705-1	9-20-36	
	9-27	
365706	9-27-6	
365707	9-27-10	
365709-1	9-27-5	
365712	9-27	PAOZZ
365713	9-27	PAOZZ
365714	9-27-14	
365718	9-19	
365733-1	9-27	
365734	9-27-4	
365735	9-27-2	
365736-1	9-27	PAOZZ
378313	9-28-10	
	9-29-9	
40-3594-	9-22-26	
12380-060	9-23-23	
524A-4D-120	9-21-29	
524A-4D-130	9-21-29	
655418	9-20-53	
68A77D4-1	9-18-10	
6999002-1	9-18-16	
6999002-3	9-23-40	
6999002-5	9-23-24	
7010009	9-21-3	PAGZG
7010012-1	9-24	
7010013	9-24-1	
7010032	9-21-4	PAOZO
	9-24	
7110004	9-23-36	PAOZO
7110007-1	9-21-39	
7110007-2	9-21-39	
7110008-1	9-21	PAOZO
7110008-2	9-21	PAOZO
7110009	9-21-68	
7110010	9-23-8	PAGZO
7110012	9-21-48	PAOZO
7110015	9-18-1	
	9-20	
7110016	9-20-50	
7110017-1	9-20-55	
7110017-2	9-20-56	
7110019-1	9-29-10	PAOZO
7110019-3	9-29-10	PAOZO
7110021	9-29-3	
7110022	9-29-6	PAOZO
	9-29-7	
7110023	9-29-1	PAOZO
7110024	9-29-4	PAOZO
7110027	9-20-24	
7110028	9-20-25	PAOZO
7110030	9-20-35	PAOZO
7110056	9-29-5	
723103	9-22-21	PAOZZ
	9-23-19	
723104	9-22-18	PADZZ
	9-23-16	
723106	9-22-16	XAGZZ
	9-23-14	
723107	9-22-17	XBGZZ
	9-23-15	
723111	9-22-11	
723112	9-22-10	
723133	9-22-29	
	9-23-26	
723134	9-22-15	PADZZ
	9-23-13	
741130	9-20-20	PAOZZ
741374	9-23-9	PAOZZ
741376	9-23-35	
741800	9-23	PAOZZ
741810	9-23	
741811	9-23-34	
767000-1	9-22	
767000-5	9-22	
767000-7	9-23	
767100	9-22-5	
767100-3	9-23-4	PAOZO
767106	9-22-22	
	9-23-20	
767300	9-22-28	XAGZZ
767300-1	9-22-28	XAGZZ
767300-3	9-23-25	
767400	9-22-12	XAGZZ
767400-1	9-23-10	
767600	9-22-25	
	9-23-22	
767700	9-22-42	PAOZZ

NUMERICAL INDEX (RSSK-8 ROCKET JET) (Cont)

Part Number	Figure and Index Number	SM&R Code
767800	9-22	PAOZZ
767850	9-22	XAGZZ
767851	9-22-37	XAGZZ
767852	9-23-33	
767860	9-22	XAGZZ
	9-23	
767861	9-22-34	XAGZZ
	9-23-31	
767862	9-22-35	XAGZZ
	9-23-32	
767900	9-22-4	
767901	9-22-7	XAGZZ
767901	9-23-6	
767901-11	9-22-6	XAGZZ
	9-23-5	
767902	9-22-14	XBGZZ
767902-3	9-23-12	
850	9-18-15	
9120097-27	9-22-37A	PAGZZ
	9-23-34A	PAGZZ
99002-10	9-27-7	
99002-2	9-26-13	
99002-6	9-19-68	XAGZZ
99002-7	9-20-59	
99003-6	9-19-66	XAGZZ
99003-7	9-25-22	
	9-26-8	
99004-1	9-26-15	XAGZZ
	9-27-16	
99004-2	9-26-14	XAGZZ
99007-1	9-19-67	XAGZZ
99007-4	9-27-15	
99008-1	9-26-12	
99050-1	9-22-47	
99050-2	9-22-27	
99071	9-26-2	
99112	9-18-13	
99136-111-11	9-22-30	
99136-111-15	9-22-30	
	9-23-27	
99136-12-11	9-22-19	
	9-22-44	
99136-12-15	9-22-44	
	9-23-17	
	9-23-37	
99136-52-15	9-22-24	
99136-52-15	9-22-38	
	9-23-21	
99136-53-5	9-21-32	

NUMERICAL INDEX (RSSK-8 SCOTT)

Part Number	Figure and Index Number	SM&R Code
AN227-61	9-33-96	
AN227-68	9-33-99	PAGZZ
	9-33-100	
AN505C4R6	9-34-2	PAGZZ
AN515-2-4	9-33-84	PAGZZ
AN565D6H2	9-35-8	PAGZZ
AN815-4D	9-33-31	PAGZZ
	9-33-32	
	9-35-28	
AN833-4D	9-33-24	PAGZZ
AN924-4D	9-33-25	PAGZZ
AN924-5D	9-33-27	PAGZZ
AN937-4D	9-33-29	PAGZZ
AN960C10L	9-31-27	PAGZZ
	9-31-32	
	9-33-9	
	9-33-22	
	9-33-41	
	9-33-55	
AN960C4	9-33-82	PAGZZ
AN960C6L	9-31-3	PAGZZ
	9-31-11	
	9-31-41	
	9-32-8	
AN960PD-4	9-33-102	XBGZZ
AN960PD10L	9-31-52	
	9-31-61	
	9-33-69	
AN960PD6L	9-31-37	
AN960PD8L	9-31-6	
AN970-3	9-31-33	PAGZZ
CL223D999-3	9-30	
CL223D999-4	9-30	
CL223D999-5	9-30	
COML	9-30-7	
	9-33-15	
	9-33-80	
D524A-4D-130	9-33-34	
MS171433	9-33-83	PAGZZ
MS171494	9-35-2	PAGZZ
MS20392-1C7	9-32-10	PAGZZ
MS20392-1C9	9-32-12	PAGZZ
MS20470A4-6	9-31-2	PAGZZ
MS20613-4P8	9-33-101	PAGZZ
MS20995C20	9-33-87	
MS21042-3	9-31-54	
	9-31-63	
MS21919DG-24	9-33-1	PAGZZ
MS21919DG-4	9-33-20	PAGZZ
MS22040-1	9-33-47	
	9-33-61	
MS24665-132	9-32-9	PAGZZ
MS24665-87	9-33-83	PAGZZ
MS24693C272	9-31-60	
MS25281-F2	9-31-9	PAGZZ
MS28775-012	9-33-92	PAGZZ
MS28775-111	9-33-91	PAGZZ
MS28778-4	9-33-35	PAGZZ
	9-35-29	
MS35206-232	9-31-36	
MS35206-246	9-31-5	
MS35489-31S	9-31-22	PAGZZ
MS51958-63	9-33-68	
MS51958-64	9-31-51	
	9-31-59	
MS90389-8	9-33-13	PAGZZ
NAS42DD4-7	9-33-103	PAGZZ
015-11365-1	9-33-43	PAOZZ
	9-33-57	PAGZZ
100-1435	9-33-104	MDGZZ
10000499	9-32-6	PAGZZ
10000502	9-32-11	PAGZZ
10000503	9-32-13	PAGZZ
10000504	9-32-7	PAGZZ
10000508	9-32-4	MDGZZ
10000543	9-32-5	PAGZZ
10000945	9-35-23	PAGZZ
10000947	9-35-12	PAGZZ
10000948	9-35-27	PAGZZ
10001148	9-35-26	PAGZZ
10001407	9-31-69	MDGZZ
10001408	9-35-32	XAGZZ
10001409	9-33-36	PAGZZ
	9-33-50	
10001410	9-35-31	MDGZZ
10001414	9-35-1	PAGZZ
10001417	9-35-14	PAGZZ
10001422	9-33-64	PAGZZ
10001423	9-33-65	PAGZZ
10001424	9-31-46	PAGZZ
10001425	9-31-29	XAGZZ
10001426	9-31-23	PAGZZ
10001427	9-31-2	1PAGZZ
10001433	9-33-28	MDGZZ
10001434	9-33-12	MDGZZ

NUMERICAL INDEX (RSSK-8 SCOTT) (Cont)

Part Number	Figure and Index Number	SM&R Code
10001439	9-31-34	PAGZZ
10001443	9-31-68	MDGZZ
10001444	9-30-12	MDGZZ
10001445	9-33-38	MDGZZ
10001446	9-33-52	MDGZZ
10001452	9-31-25	PAGZZ
10001454	9-33-88	PAGZZ
10001462	9-33-4	MDOZZ
10001464	9-34-16	XAGZZ
10001465	9-34-7	PAGZZ
10001466	9-34-1	XAGZZ
10001469	9-34-13	XAGZZ
10001470	9-34-10	XAGZZ
10001472	9-34-3	XAGZZ
10001476	9-34-6	PAGZZ
10001491	9-34-4	XAGZZ
10001492	9-34-5	PAGZZ
10001517	9-32-14	PAGZZ
10001522	9-32-2	MDGZZ
10001524	9-31-70	MDGZZ
10001569	9-33-2	MDGZZ
10001578	9-34-5	PAGZZ
10001610	9-34-12	PAGZZ
10001614	9-31-71	MDGZZ
10001696	9-33-89	PAGZZ
10001697	9-33-14	MDGZZ
10001733	9-33-3	PAGZZ
10001809	9-35-4	XBGZZ
10001818	9-33-16	MGGZZ
10001844	9-33-98	MDGZZ
10002468	9-35-17	PAGZZ
10003772	9-35-31	
10005055	9-35-32	XAGZZ
10005056	9-33-12	MDGZZ
10005057	9-33-90	PAGZZ
10005108	9-30-12	MDGZZ
10005162	9-35-31	MDGZZ
10005195	9-35-1	PAGZZ
10005310	9-35-17	
10005311	9-35-11	
102C401-15	9-31-56	
	9-31-65	
11594	9-35-19	PAGZZ
11597	9-35-18	PAGZZ
11622-04	9-35-16	PAGZZ
1195AS101-1	9-31-56	PAGZZ
	9-31-65	
1195AS102-1	9-31-50	PAGZZ
1195AS103-1	9-31-58	PAGZZ
1195AS104-1	9-31-57	
	9-31-66	
1195AS105-1	9-31-53	
	9-31-62	
1195AS106-1	9-30-10	PAGZZ
1195AS107-1	9-31-4	PAGZZ
1195AS108-1	9-31-7	PAGZZ
1195AS109-1	9-33-67	
1195AS110-1	9-33-70	
1195AS111-1	9-33-70	
1195AS112-1	9-33-70	
1195AS113-1	9-31-35	PAGZZ
1195AS114-1	9-33-46	PAGZZ
	9-33-60	
1195AS115-1	9-33-49	
1195AS115-2	9-33-63	
1195AS116-1	9-30-13	
15351	9-31-28	XAGZZ
184C100-1	9-33-46	
	9-33-60	
19474	9-31-12	PAGZZ
	9-31-43	
	9-31-48	
	9-33-75	
19560	9-31-18	
19561	9-31-19	PAGZZ
19974	9-31-20	PAGZZ
19974-1	9-31-17	PAGZZ
20041	9-35-15	PAGZZ
20042-3	9-35-10	PAGZZ
20057	9-35-20	PAGZZ
20072-3	9-33-76	PAGZZ
20082	9-35-9	PAGZZ
20364	9-35-5	XAGZZ
20364-1	9-35-6	XAGZZ
20364-2	9-35-7	PAGZZ
20430	9-33-93	PAGZZ
20526-2	9-33-81	MDGZZ
22K1-02	9-31-55	
	9-31-64	
22K1-62	9-31-38	
22K1-82	9-31-8	
22K2-02	9-33-11	
	9-33-23	
	9-33-42	

NUMERICAL INDEX (RSSK-8 SCOTT) (Cont)

Part Number	Figure and Index Number	SM&R Code
22K2-02	9-33-56	
22021	9-35-3	PAGZZ
22021-01	9-35-3	PAGZZ
22199-1	9-35-24	PAGZZ
22199-02	9-35-24	PAGZZ
22293-1	9-35-13	PAGZZ
224B432-11	9-31-7	
224C300-1	9-30-10	
230C535-13	9-33-67	
230C536-11	9-33-70	
230C536-13	9-33-70	
230C536-15	9-33-70	
234A100-1	9-30	
234C412-11	9-31-57	
	9-31-66	
234C412-13	9-31-53	
	9-31-62	
234C431-11	9-31-4	
234C450-11	9-31-35	
234C500-1	9-30-13	
234C600-1	9-33-49	
234C600-2	9-33-63	
234D410-11	9-31-50	
234D410-13	9-31-58	
26183	9-35-21	PAGZZ
27494-00	9-35-31	
27494-01	9-35-31	
27494-02	9-35-31	
2800A6A	9-35-25	PAGZZ
2800B4A	9-33-35	
2832-19	9-33-10	MDGZZ
2836-2	9-35-22	PAGZZ
36C1326-1	9-31-49	
36D1321	9-30-8	PAGZZ
36H1323-31	9-30-11	PAGZZ
41781-00	9-30-11	
41783	9-31-49	
42262-00	9-30-9	
524A-4D-130	9-33-34	
55030	9-33-21	
	9-33-54	
55032	9-31-24	PAGZZ
	9-32-1	
	9-32-3	
55035	9-33-40	
55037	9-31-26	PAGZZ
55039	9-33-15	PAGZZ
55422	9-31-42	PAGZZ
	9-31-47	
	9-33-72	
55422-01	9-33-37	PAGZZ
55422-01	9-33-51	
55457	9-31-39	PAGZZ
	9-31-44	
	9-33-71	
55483	9-33-73	MDGZZ
56098	9-31-67	MDGZZ
56182	9-34-9	PAGZZ
56192	9-31-31	PAGZZ
	9-33-7	
56202	9-33-8	PAGZZ
56213	9-33-80	PAGZZ
56260	9-31-40	PAGZZ
56288	9-31-45	PAGZZ
56300	9-31-16	PAGZZ
56593	9-33-94	MDGZZ
57373	9-33-66	PAGZZ
57827	9-33-95	
58874-00	9-33-43	
	9-33-57	
58971-00	9-30-8	
58989	9-33-26	PAGZZ
59004	9-31-10	PAGZZ
59011-00	9-33-30	PAGZZ
59023	9-34-8	PAGZZ
59036-00	9-33-79	PAGZZ
59150-00	9-33-6	PAGZZ
	9-33-39	
	9-33-53	
59151-00	9-33-74	PAGZZ
59152-00	9-33-97	PAGZZ
59675-00	9-30-7	
63A94H7-2	9-30-9	PAGZZ
68A77D4-1	9-30-9	PAGZZ
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	9-32	
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800676-03	9-30-2	PAGZZ
800720-00	9-30-3	PAGZZ
800723-00	9-30-14	XAGZZ

NUMERICAL INDEX (RSSK-8 SCOTT) (Cont)

Part Number	Figure and Index Number	SM&R Code
800723-00	9-33	
800723-01	9-30-14	XAGZZ
	9-33	
800724-00	9-33-105	XAGGG
800726-00	9-35	PAGGG
800726-01	9-35	PAGGG
800726-02	9-35	PAGGG
800726-10	9-33-85	PAGGG
	9-35	
800726-11	9-33-85	PAGGG
	9-35	
800726-12	9-33-85	PAGGG
	9-35	
800727-04	9-33-13	
800729-00	9-30-5	XAGGG
	9-31	
800729-01	9-30-5	XAGGG
	9-31	
800730-00	9-31-72	XAGGG
800730-01	9-31-72	XBGZZ
800732-00	9-31	PAGZZ
800733-00	9-31-13	PAGZZ
800734-00	9-31-14	PAGZZ
800735-00	9-31-15	AGGGG
800737-01	9-33	PAGZZ
	9-33-58	
800737-02	9-33-48	
	9-33-62	
800738-00	9-33-59	XAGZZ
800738-01	9-33-45	XAGZZ
800739-01	9-33	AGGGG
800739-01	9-33-44	AGGGG
800740-01	9-33	
800742-00	9-33-18	PAGZZ
800743-00	9-33-19	PAGZZ
800744-00	9-33-17	PAGZZ
800744-01	9-33-17	PAGZZ
800745-00	9-33-86	PAGZZ
800746-00	9-30-1	PAGZZ
800746-01	9-30-1	PAOZZ
800755-00	9-33-78	PAGGG
	9-34	
800755-01	9-33-78	PAGZZ
	9-34	
800756-00	9-34-14	PAGZZ
800757-00	9-34-11	PAGZZ
800758-00	9-30-4	PAGZZ
800759-00	9-30-6	PAGZZ
800772-00	9-33-33	PAGZZ
800783-00	9-32	AGGZZ
800905-00	9-33-31	PAGZZ
801214-00	9-34-15	XAGZZ
801215-00	9-30-6	PAGZZ
801215-01	9-30-6	PAGZZ
801494-00	9-31-1	PAGZZ
802174-01	9-33-86	PAGZZ
802175-01	9-33	AGGGG
802196-01	9-33	AGGGG
	9-33-44	PAGZZ
802196-12	9-33	PAGZZ
	9-33-58	
802196-17	9-33-48	
	9-33-62	
8820-2	9-35-30	PAGZZ
9120097-27	9-33	PAGZZ

CHAPTER 10

RIGID SEAT SURVIVAL KIT - 8 SERIES

(EAST/WEST)

Section 10-1. Description

10-1. GENERAL.

10-2. The Rigid Seat Survival Kit - RSSK-8 Series is designed for use with Douglas ESCAPAC ejection seats and functions as a seat cushion for the aircrewman as well as a container for an emergency oxygen system, liferaft and survival equipment (figures 10-1 and 10-2). The kit is manufactured by East/West Industries (CAGE 30941).

NOTE

All artwork in this chapter depicts the RSSK-8E configuration unless otherwise noted.

The RSSK-8E differs from other East/West RSSK-8 Series kits in that it incorporates an adjustable pressure reducer, new integrated corner brackets with replaceable side harness assemblies, a carrying handle, and a new seat cushion assembly.

10-3. CONFIGURATION.

10-4. The RSSK-8 is constructed of a bonded fiberglass body and an extruded metal lip interconnecting the upper and lower containers. The kit is opened by the yellow handle mounted on the forward right side. Two adjustable retaining straps, mounted on the upper container, provide attachment of the kit to aircrewman's torso harness. A flexible oxygen and communications hose installed on the aft left side of upper container provides connection for communications and oxygen functions between aircraft and aircrewman. The upper container assembly also houses a 53 cu in., 1800 psi, emergency oxygen cylinder capable of supplying over 10 minutes of breathing oxygen for high altitude bailout. Or, in the event of a failure of the aircraft oxygen system, emergency oxygen is available by pulling the manual oxygen release on the kit. Oxygen from the kit then flows to the aircrewman through the emergency oxygen system reducer in the kit. A check valve in the oxygen line prevents emergency oxygen from flowing into aircraft system or overboard from kit. The reducer is automatically operated by a lanyard connected between the actuator and aircraft structure during ejection. The lower container, the liferaft and survival equipment.

10-5. When seated aboard the aircraft, the aircrewman connects the kit quick-release fittings on his retaining straps to his torso harness. The personal service leads are connected via quick-disconnect fittings. These leads can be quickly disconnected by pulling the leads at the disconnect points.

10-6. SUBASSEMBLIES. The major subassemblies of the RSSK-8 are:

1. Emergency Oxygen System
2. Upper and Lower Containers
3. Release Mechanism
4. Dropline
5. Cushion
6. Hose Assembly
7. Survival Equipment Container
8. Harness Assembly

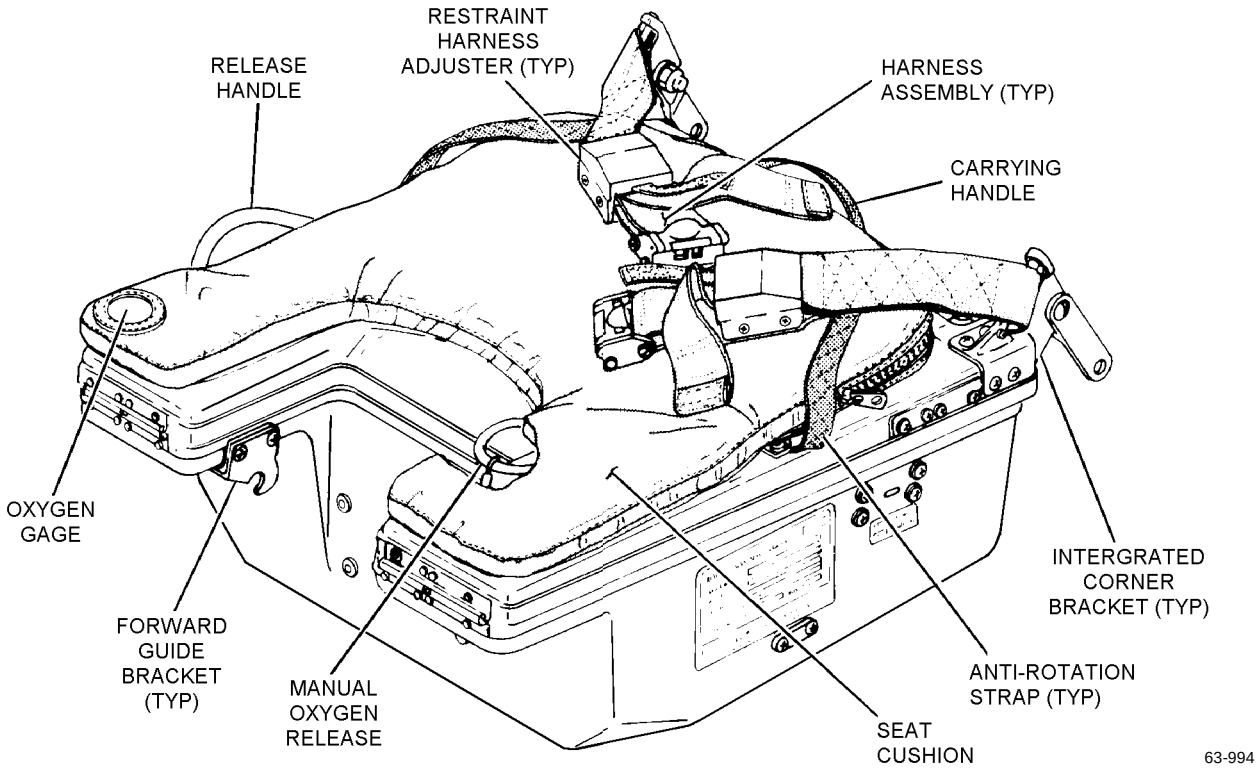


Figure 10-1. RSSK-8 Closed

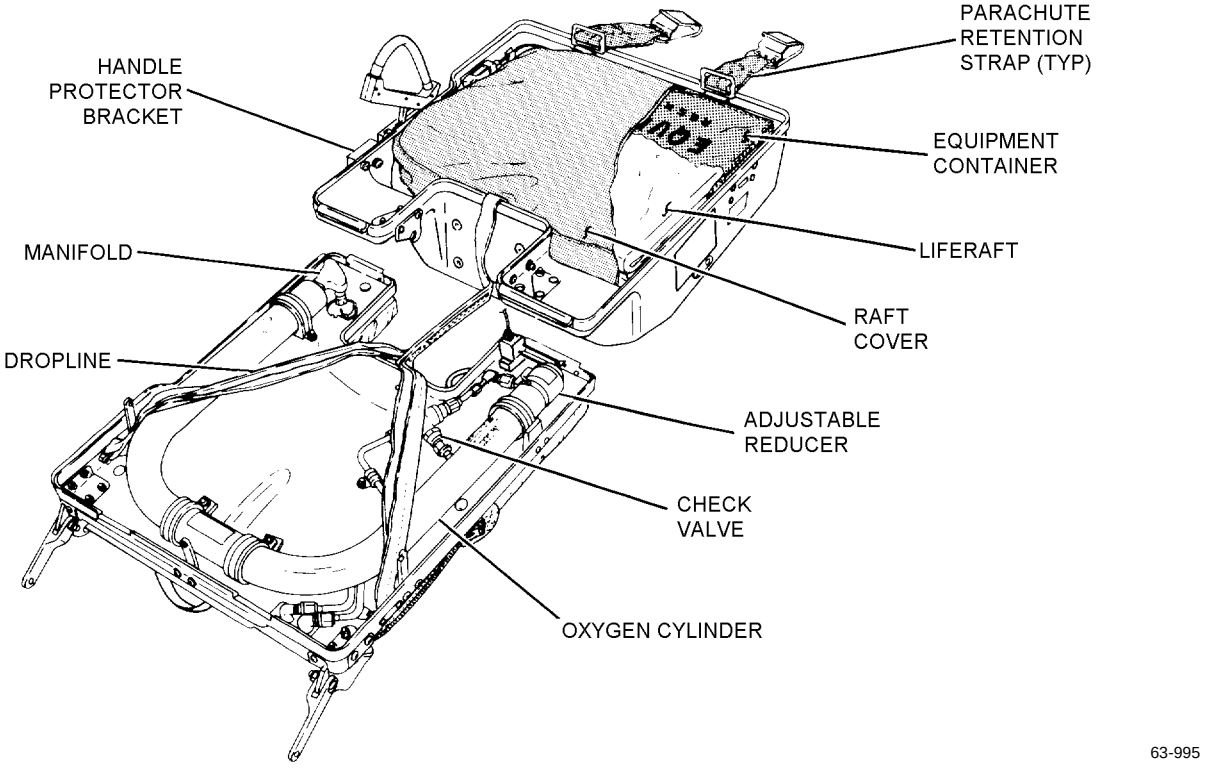


Figure 10-2. RSSK-8 Open

10-7. REFERENCE NUMBERS, ITEMS AND SUPPLY DATA.

10-8. Figures 10-19 through 10-23 for RSSK-8 and figures 10-24 through 10-29 for RSSK-8E contain information on each assembly, subassembly, and component parts. The figure and index number reference or part number, description, and units per assembly are provided.

10-9. APPLICATION.

10-10. The RSSK-8 is a part of the survival equipment used by aircrewman aboard aircraft listed in table 10-1.

Table 10-1. RSSK-8 Application

Escape System	IC-3	IF-3	IG-3	IE-1
Aircraft	A-4F A-4M EA-4F TA-4F TA-4J	A-4F A-4M TA-4F TA-4J	A-4F A-4M TA-4F TA-4J	S-3A (Note 1)

Notes: 1. Survival kits used in S-3A Type A/C must be updated to provide compatibility with AIC-14 Intercommunication Systems and the Integrated Communication Control System. Refer to Section 10-2, Modifications.

10-11. FUNCTION.

10-12. When the aircrewman ejects from the aircraft, the following functions occur:

1. The automatic actuation lanyard for the emergency oxygen system actuates the reducer assembly at seat ejection. The aircrewman is then supplied emergency oxygen for descent (figure 10-3).

NOTE

If automatic actuation of the emergency oxygen system fails, the emergency oxygen system may be actuated by means of the manual oxygen release (green ring).

2. The radio beacon is also actuated by means of an automatic actuation lanyard upon seat ejection. The beacon will provide a continuous signal during descent.

3. When a safe altitude is reached, the aircrewman pulls the kit release handle free of the kit. This unlocks the containers and the lower half falls away but remains attached by the dropline assembly. The liferaft, attached to the dropline, is automatically inflated when dropline reaches maximum extension and snubbing action initiates liferaft inflation assembly.

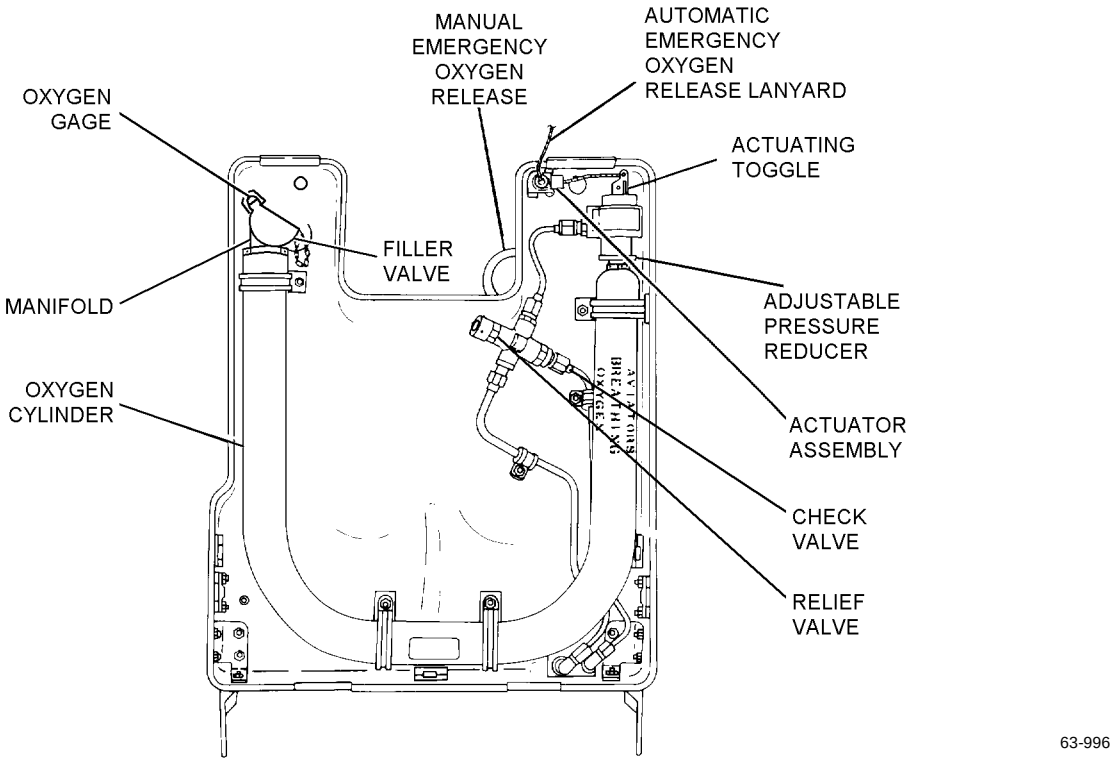


Figure 10-3. Emergency Oxygen System

Section 10-2. Modifications

10-13. GENERAL.

10-14. The RSSK-8 shall be updated by comparing the configuration of the assembly with the directives listed in table 10-2. Repair, fabrication, and installation instructions to maintain serviceability are listed in table 10-3.

Table 10-2. Directives

Description of Modification	Application	Modification Code
Securing of RSSK-8A-1 Equipment Container	All RSSK-8A-1 Series Kits	66-332
Modification of Emergency Oxygen Release Assembly	RSSK-8A-1 (P/N 102J100-1)	66-325 Part II Amend. I
Installation of Third Latch at the Rear of Kit	RSSK-8A-1 (P/N 102J100-1/-3)	66-379
Installation of Structurally Improved Hardware	RSSK-8A-1 (P/N 102J100-5)	66-377
Installation of the Toggle Modification Kit on the Pressure Reducer Assembly	Only on the RSSK-8D's Seat Survival Kit	66-484

Table 10-3. Repairs/Fabrications/Installations

Description of Repair/ Fabrication/Installation	Application	Paragraph
Installation of CX-13017/AR Electrical Cable Assembly (32-Inch)	All RSSK-8 Series Kits Used in S-3A A/C	Chapter 4

Section 10-3. Rigging and Packing

10-15. GENERAL.

10-16. Unless operational requirements demand otherwise, rigging and packing of the RSSK-8 shall be accomplished at Intermediate Level of maintenance by qualified personnel in accordance with applicable aircraft maintenance requirement cards (MRCs).

NOTE

Quality assurance steps are provided for critical operations. When a step is underlined, the Aircrew Survival Equipmentman shall perform the operation and then have performance verified by Quality Assurance (QA).

10-17. RIGGING AND PACKING PROCEDURES.

10-18. Rigging and packing of the RSSK-8 is accomplished in eight separate operations as follows:

1. Preliminary Procedures
2. Radio Beacon Rigging and Installation
3. Survival Equipment Binding
4. Survival Equipment Packing
5. Stowing Dropline
6. Liferaft Preparation, Folding, Rigging and Packing
7. Closing Container
8. Cockpit Routing and Installation of the Emergency Radio Beacon Lanyard

10-19. PRELIMINARY PROCEDURES. The following preliminary procedures shall be accomplished prior to rigging and packing the RSSK-8.

1. Ensure RSSK-8 and components have been inspected in accordance with Section 10-5.

2. Inspect oxygen hose assemblies in accordance with Chapter 4.

3. Remove upper container assembly from lower container assembly.

4. Remove liferaft cover. Inspect liferaft cover for damaged fabric and loose, broken, or frayed stitching.

WARNING

CO_2 bottle is under pressure. Use caution when disconnecting CO_2 bottle from liferaft. Do not loosen or attempt to remove inflation valve assembly from CO_2 cylinder.

CAUTION

Ensure actuating line is disconnected from CO_2 cylinder inflation valve before removal of CO_2 cylinder from liferaft.

5. Disconnect CO_2 cylinder from liferaft as follows:

a. Carefully remove liferaft from container

b. Disconnect actuation line from CO_2 cylinder

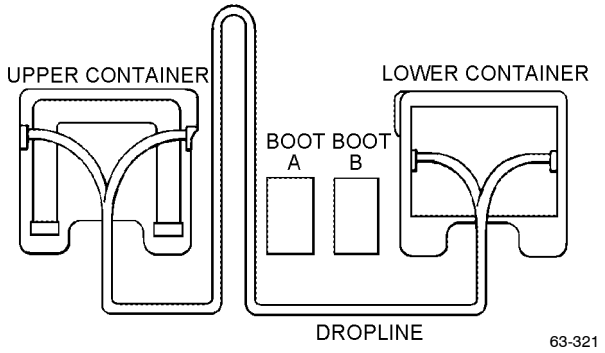
c. Disconnect CO_2 cylinder from liferaft

d. Remove large loop of drop line from CO_2 cylinders neck

e. Ensure anti-chafing disc is installed. Reconnect CO_2 cylinder to liferaft finger tight. If functional test is required torque valve 80 to 90 in-lbs.

6. Ensure liferaft and CO_2 cylinder have been inspected in accordance with NAVAIR 13-1-6.1-1.

7. Remove dropline from boots and align kit components on a clean flat surface as shown.



Step 7 - Para 10-19

NOTE

A newly fabricated or procured dropline assembly will have a final dimension of 26 feet, 4 inches ±2 inches. However, a dropline assembly is subjected to a certain amount of stretch during its stowing process, and shrinkage during its cleaning process, therefore a tolerance of ±12 inches is acceptable for an older dropline assembly.

8. Inspect dropline to ensure proper attachment to upper and lower containers. Also ensure dropline length is 26 feet, 4 inches ±12 inches.

9. Ensure survival items have been inspected in accordance with NAVAIR 13-1-6.5.

NOTE

Ensure battery service life does not expire prior to the next scheduled inspection cycle of the assembly in which the radio set is installed. Refer to NAVAIR 16-30URT33-1 for battery service life.

10. Remove radio beacon set from kit and ensure that the battery and radio beacon have been inspected in accordance with NAVAIR 16-30URT33-1.

11. Check seat pan and cushion assembly for cuts, tears, and abrasions, and hardware for security of attachment, corrosion, damage, wear, and ease of operation.

12. (Before ACC 377) Ensure security of closure strap and attaching hardware.

10-20. RADIO BEACON RIGGING AND INSTALLATION. To rig and install the AN/URT-33 Emergency Radio Beacon, proceed as follows:

Materials Required

Quantity	Description	Reference Number
1	Beacon Set, Radio AN/URT-33A	MIL-B-38401A NIIN 00-160-2136
1	Actuator Indicator Assembly	CL204D3-11 (CAGE 80206) NIIN 00-127-5597
1	Pin, Cotter, Hairpin	LHCOTC (CAGE 96652) NIIN 00-956-5635
3	Rubber Bands (Type I)	MIL-R-1832 NIIN 00-568-0323
As Required	Thread, Nylon Type II, Class A, Size E	V-T-295 NIIN 00-244-0609
1	Lanyard, Actuating, AN/URT-33A (Note 1)	CL204C4-5
1	Lanyard, Actuating, AN/URT-33A (Note 2)	CL204C4-6

Notes: 1. S-3 aircraft pilot and copilot positions, 1 each.

2. S-3 aircraft TACCO and SENSO positions, 1 each, and A-4/TA-4 aircraft.

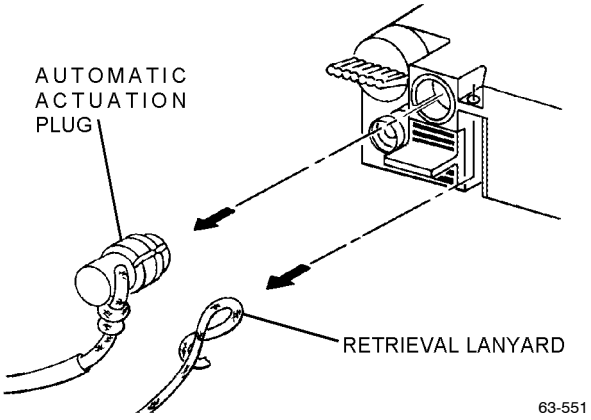
NOTE

Ensure slider switch on radio beacon is OFF. Slider switch is in OFF position when word ON is not visible on radio beacon housing.

Determine if beacon has been modified in accordance with steps 1 through 3 before proceeding to step 4.

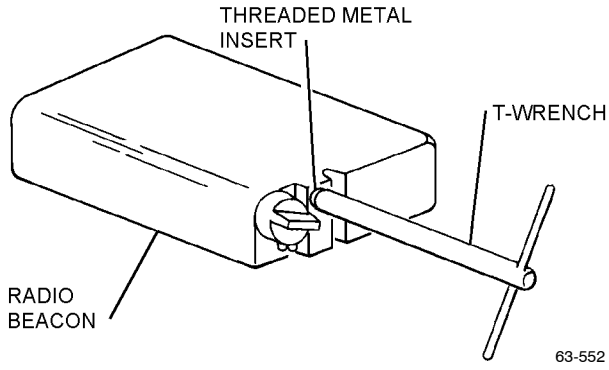
Retain automatic actuation plug, lanyard, and metal insert in shop area for future possible use.

1. Remove and retain automatic actuation plug and lanyard. Remove and discard radio beacon retrieval lanyard.



Step 1 - Para 10-20

2. Remove and retain threaded metal insert from beacon using T-wrench. (See paragraph 10-77 for fabrication of T-wrench.)

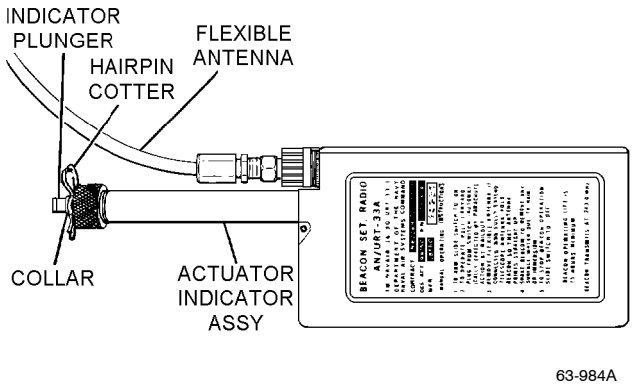


Step 2 - Para 10-20

3. Connect flexible antenna to radio beacon. Push bayonet-type fitting in and turn to right.

4. Install actuator indicator assembly (P/N CL204D3-11) handtight in beacon position from which threaded metal insert was removed.

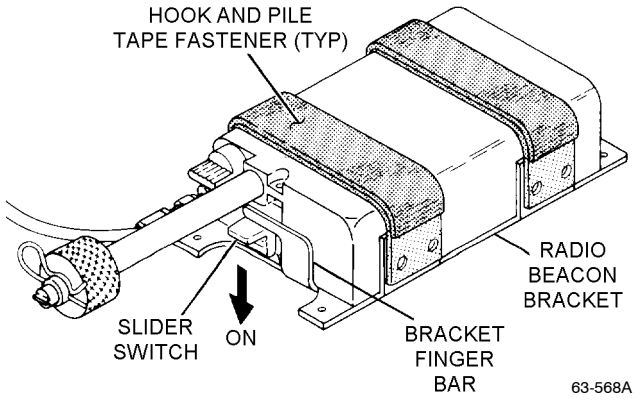
5. Depress indicator plunger, align holes in plunger and collar, and insert hairpin cotter.



Step 5 - Para 10-20

6. Ensure hairpin cotter and collar are free to rotate 360° without binding. If hairpin cotter and collar are free proceed to step 7. If hairpin cotter and collar do not rotate, refer to NAVAIR 16-30URT33-1.

7. Place ON/OFF slider switch in ON (armed) position and install beacon assembly in radio beacon bracket in lower container. Ensure slider switch is in ON position under bracket finger bar, then secure beacon in bracket using hook and pile tape fastener.



Step 7 - Para 10-20

8. Route flexible antenna around periphery of lower container.

10-21. SURVIVAL EQUIPMENT BINDING. Ensure all survival items have been inspected in accordance with NAVAIR 13-1-6.5 Technical Manual before binding. To bind survival items, proceed as follows (table 10-4).

NOTE

To prevent loss of survival items, individually tie and then tie to 140-inch length of nylon cord. Nylon cord of prescribed lengths required for this procedure shall be seared at both ends to prevent fraying (table 10-5).

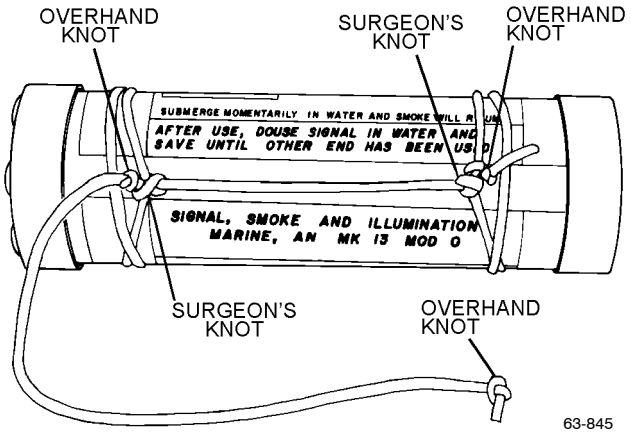
All cord used shall be Type I nylon (MIL-C-5040).

1. Using a 36-inch piece of nylon cord, tie an overhand knot in each end. Wrap end of cord two overlapping turns around end of signal flare and tie with surgeon's knot. Position tie so cord-end overhand knot rests snugly against surgeon's knot.

NOTE

Cord between end-ties shall be drawn tight.

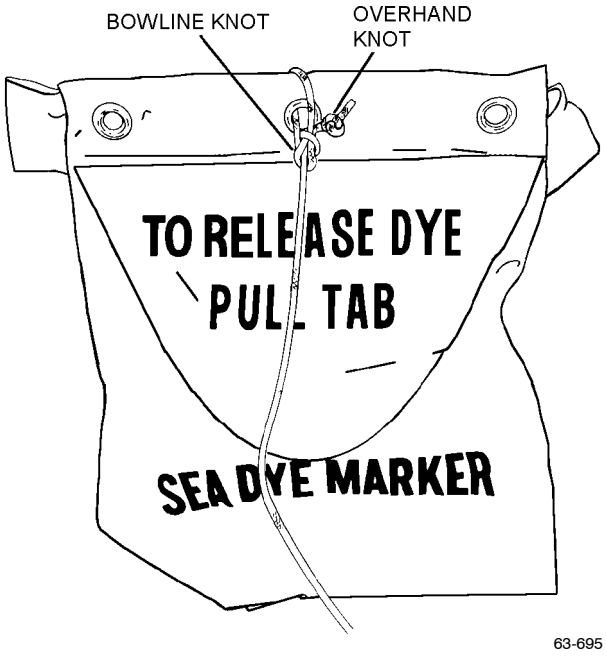
2. Route cord to opposite end of signal flare. Wrap cord two overlapping turns around flare and tie with surgeon's knot followed by an overhand knot positioned snugly against surgeon's knot.



Step 2 - Para 10-21

3. Tie second signal flare in the same manner.

4. Using a 12-inch piece of nylon cord, tie an overhand knot near each end. Pass overhand knot through center grommet in dye marker and tie a bowline knot, allowing approximately a 1-inch loop. Bowline knot should lie snugly against overhand knot.



Step 4 - Para 10-21

5. Tie the second sea dye marker in the same manner as step 4.

Table 10-4. Survival Kit Items (Note 1)

Item Name	Quantity	Reference Number
Cord, Fibrous (Nylon) Type I	50 ft	NAVAIR 13-1-6.5
Signal, (Flare), Smoke and Illumination, MK-13 MOD 0 or MK-124 MOD 0 (Note 2)	2	NAVAIR 13-1-6.5
Sea (Dye) Marker, Fluorescein	2	NAVAIR 13-1-6.5
Sponge, (Bailout), Cellulose Type 2, Class II	1	NAVAIR 13-1-6.5
SRU-31/P Survival Kit Packet #1 (Medical) (Note 3)	1	NAVAIR 13-1-6.5
SRU-31/P Survival Kit Packet #2 (General) (Notes 3 and 4)	1	NAVAIR 13-1-6.5
SRU-31A/P (Note 8)	Optional	NAVAIR 13-1-6.5
Water, Drinking, Canned (Note 5)	1	NAVAIR 13-1-6.5
Water, Drinking, Emergency (Note 7)	3	NAVAIR 13-1-6.5
Opener, Can, Hand	1	NAVAIR 13-1-6.5
Ground/Air Emergency Code Card	1	NAVAIR 13-1-6.5
Blanket, (Combat) Casualty (3 oz.) (Note 6)	1	NAVAIR 13-1-6.5
Envelope, Packing List	2	NAVAIR 13-1-6.5
Beacon Set, Radio	1	NAVAIR 13-1-6.5
Liferaft, Inflatable	1	NAVAIR 13-1-6.1-1
Lowering Device (Note 6)	1	NAVAIR 13-1-6.5

Notes:

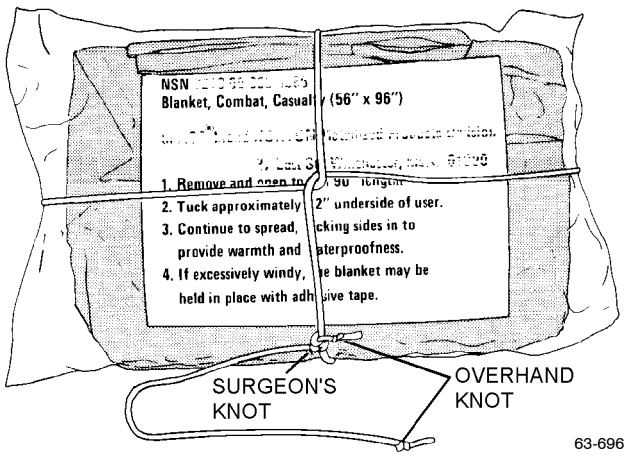
1. The items listed are typical and are considered mandatory for inclusion in the survival kit container. Deviation from the listed items may be required by certain Functional Air Wings (FUNCWINGS), Carrier Air Wings (CVW), COMFAIRS, or Marine Air Wings (MAW). Requests for deviations must be forwarded to and authorized by TYCOMS and with information to Fleet Support Team (FST) at NAVAIR-WARCENACDIV Patuxent River MD via Naval Message. When optional items are substituted, particular attention must be paid to the binding sequence so that physical sizes and binding order of substituted items remain approximately the same. That portion of an item name in parentheses is a common-use name or container size and is not intended for supply requisition purposes.
2. MK-13 MOD 0 shall be used until stocks are depleted, then MK-124 MOD 0 will replace MK-13 MOD 0 as stocks become available.
3. SRU-31/P complete kits including Medical Packet (#1) and General Packet (#2) may be ordered; instructions for packing and ordering these kits are found in NAVAIR 13-1-6.5.
4. Packet #2 must be stowed on aviator's person if kit includes lowering device.
5. One additional canned water may be added as optional equipment.
6. Optional equipment.
7. When the supply for emergency canned water has been exhausted, order emergency bagged water in accordance with NAVAIR 13-1-6.5.
8. The selection of SRU-31/P or SRU-31A/P Individual Aircrewmember's Survival Kit will be at the discretion of the TYPE COMMANDER depending on mission requirements, reference NAVAIR 13-1-6.5, Chapter 9, for detailed information.

Table 10-5. Nylon Cord Lengths Required for Binding

Length (Inches)	Number Required
140	1
12 (Note 1)	4
30	2
36	2
40	2
50 (Note 1)	2

Notes: 1. When using bagged water in place of canned emergency water, the number of required 12 inch lengths will be a total of 5 and the required 50 inch lengths will be a total of 1.

6. If casualty blanket is included, tie an overhand knot near each end of a 30-inch piece of nylon cord. Wrap cord around blanket until both ends meet, then rotate cords 1/4 turn and wrap cords around opposite sides of space blanket. Tie with a surgeon's knot. Ensure cord-end overhand knot is positioned snugly against surgeon's knot.



Step 6 - Para 10-21

7. Using a 50-inch piece of nylon cord, tie an overhand knot near both ends. Wrap one end of cord two overlapping turns around end of canned water and tie with a surgeon's knot. Position so cord-end overhand knot rests snugly against surgeon's knot. Route cord to opposite end of can. Wrap cord two overlapping turns around end of can and tie with surgeon's knot followed by an overhand knot positioned snugly against surgeon's knot. Cord between end-ties shall be drawn tight.

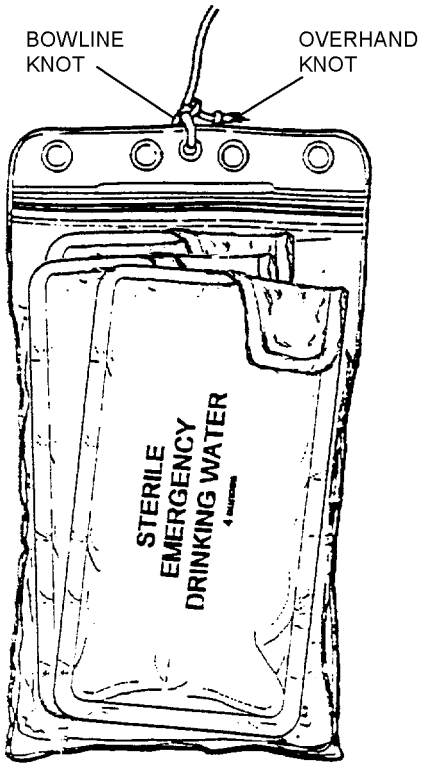
Step 7 - Para 10-21

8. If a second canned water is included, it shall be secured in the same manner as step 7.

NOTE

Replacement rate of exhausted canned water shall be in accordance with the NAVAIR 13-1-6.5 manual. Bagged emergency drinking water shall be stowed in the same order as canned emergency water. The bags of water shall be stowed in a flat configuration.

9. Bagged water. Place a maximum of three 4-ounce bagged emergency drinking water flat inside a clear vinyl envelope (MIL-B-117) with pour spout folded down. Bagged water must be able to fit into envelope without disrupting the closure of the sealing slide fastener. Using a 12-inch length of cord, tie an overhand knot on each end and pass knot through center hole in envelope. Secure with bowline knot, allowing an approximate 1-inch loop. Position an overhand knot snugly against the bowline knot. Ensure overhand knot is snug against surgeon's knot.

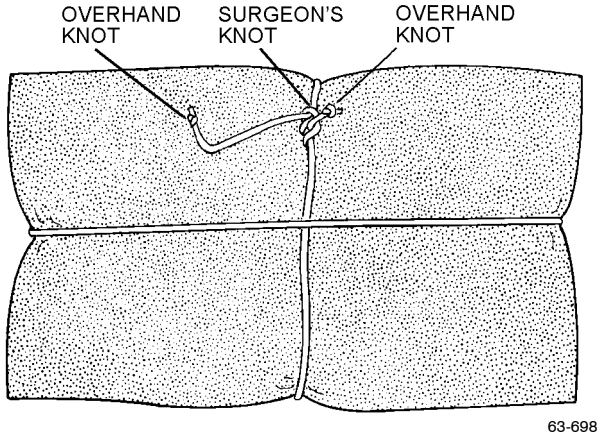


Step 9 - Para 10-21

NOTE

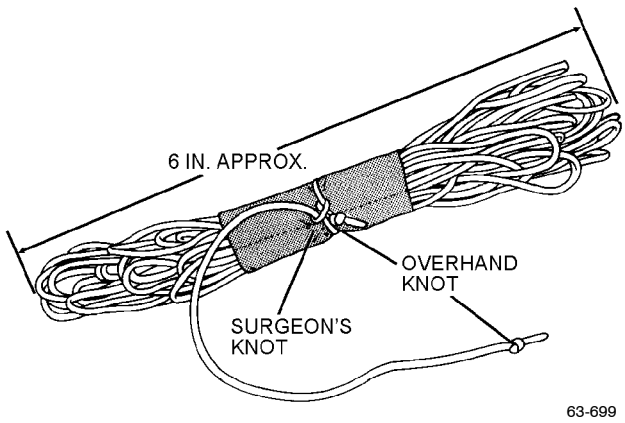
The bailing sponge should be compressed to a minimum thickness by compressing while damp and then allowing to dry in the compressed state before tying.

10. Using a 30-inch length of nylon cord, tie an overhand knot near the ends. Wrap cord around sponge until both ends meet, then rotate cord 1/4 turn and wrap cords around opposite sides of sponge. Tie with surgeon's knot. Ensure cord-end overhand knot is positioned snugly against surgeon's knot.



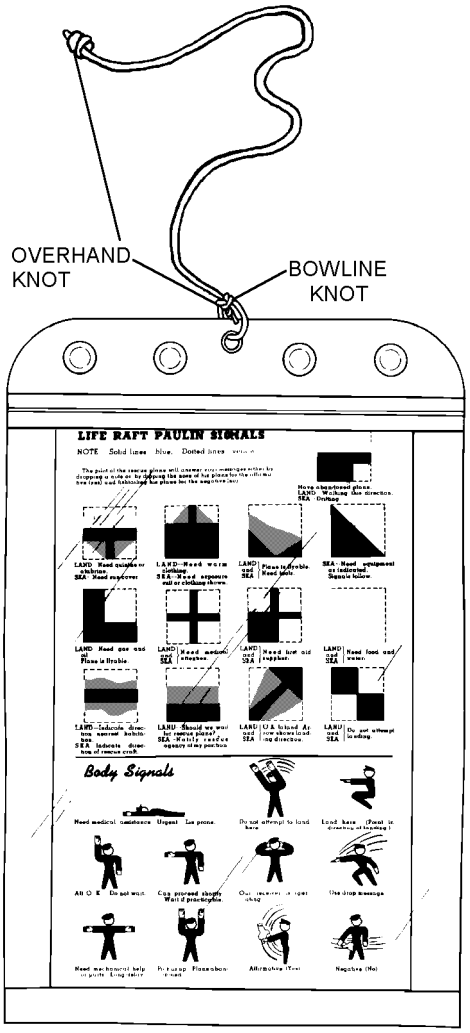
Step 10 - Para 10-21

11. Cut one 2 x 3-inch piece of nylon duck material. Accordion fold the 50-foot length of nylon cord in 6-inch bights and wrap material around center of accordion folded cord. Using a 12-inch piece of nylon cord, tie an overhand knot near each end and secure one end of the cord to center of material with a surgeon's knot. Ensure cord-end overhand knot is positioned snugly against surgeon's knot.



Step 11 - Para 10-21

12. Place Ground/Air Emergency Code Card into clear vinyl plastic envelope (MIL-B-117) and close the sealing zipper. Using a 12-inch piece of cord, tie an overhand knot in one end and pass knot through center hole in envelope. Secure with a bowline knot, allowing a 1-inch loop. Cord-end overhand knot shall be positioned snugly against bowline knot.



63-700

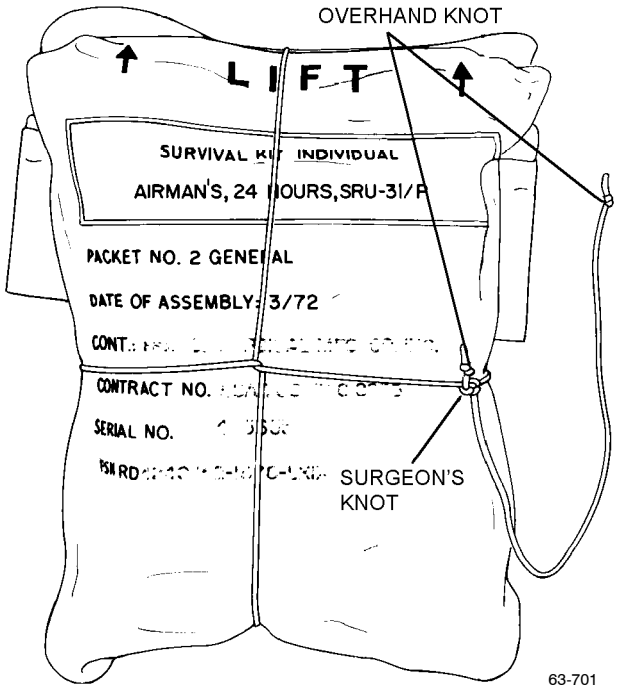
Step 12 - Para 10-21

NOTE

If the PLD (Personnel Lowering Device) is to be installed in the RSSK-8, the SRU-31/P Survival Kit shall be stowed on the aviator.

SRU-31/P Packet #1 (Medical) shall be folded approximately double prior to binding.

13. Using a 40-inch length of nylon cord, tie an overhand knot in both ends. Wrap cord around one packet of SRU-31/P Survival Kit until both ends meet, then rotate cords 1/4 turn and wrap cords around opposite sides of packet. Tie with a surgeon's knot. Cord-end overhand knot shall be positioned snugly against surgeon's knot.



63-701

Step 13 - Para 10-21

14. Secure the second SRU-31/P packet in the same manner as step 13.

15. Ensure survival items are properly tied.

16. Using the 140-inch length of Type I nylon cord, form a 3/4 to 1-inch overhand loop approximately 12 inches from one end. Continue forming loops every 5 inches until there are enough to accommodate all required survival items. Ensure minimum of 25 ±1 inches of cord remain after forming the last overhand loop.

17. Tie each item to a loop on the 140-inch nylon cord (figure 10-4) using a surgeon's knot. Ensure each item's cord-end overhand knot is positioned snugly against surgeon's knot.

CAUTION

Ensure pointed end of can opener has adequate chafing cloth to prevent damage to other survival items.

18. Route 12-inch end of the 140-inch cord through the hole in the can opener and secure with a 1-inch loop bowline knot, followed by an overhand knot drawn snugly against bowline knot. Wrap can opener with chafing cloth secured by a rubber band (figure 10-4).

10-22. SURVIVAL EQUIPMENT PACKING. To pack survival equipment, proceed as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Cord, Nylon, Type III, 550-Pound	MIL-C-5040 NIIN 00-240-2146
As Required	Thread, Nylon, Type II, Class A, Size E	V-T-295 NIIN 00-244-0609

1. Place equipment container on table with attaching loops facing packer and the word EQUIPMENT facing up.

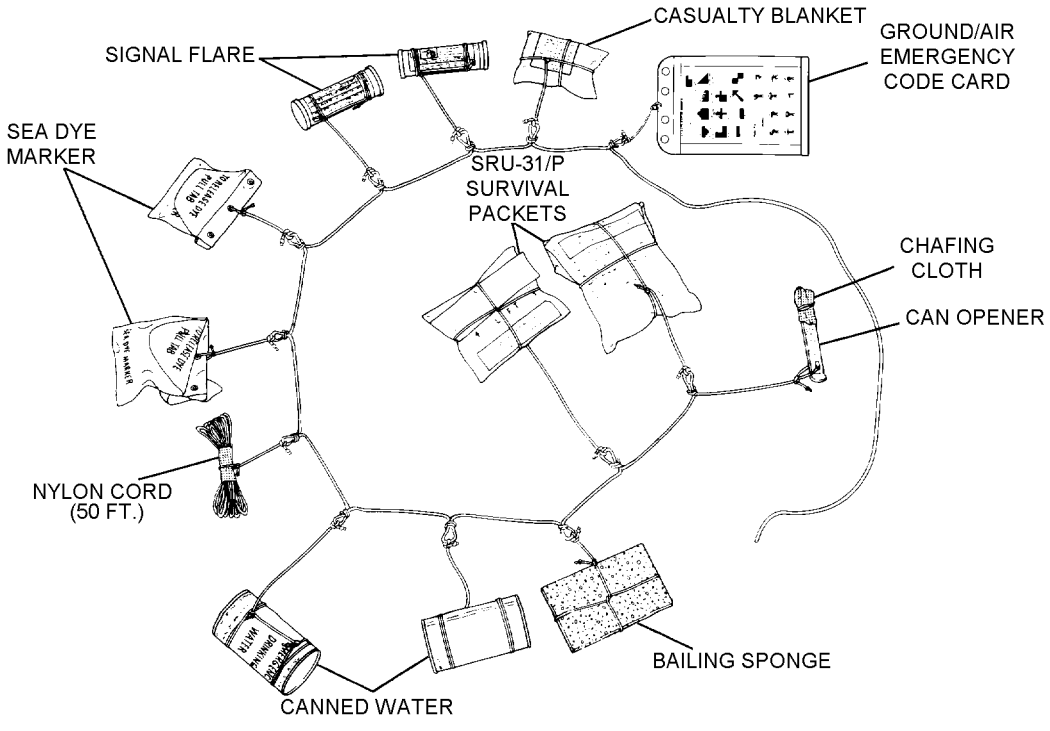
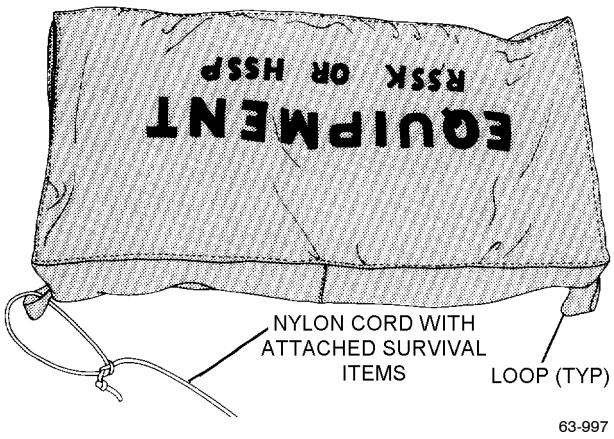


Figure 10-4. Binding Survival Items

2. Attach bitter end of 140-inch nylon cord (with attached survival items) to the left-hand loop on equipment container with a bowline knot (2-inch approx. loop) and an overhand knot positioned snugly against bowline knot.



Step 2 - Para 10-22

3. Open equipment container by opening left slide fastener to the right.

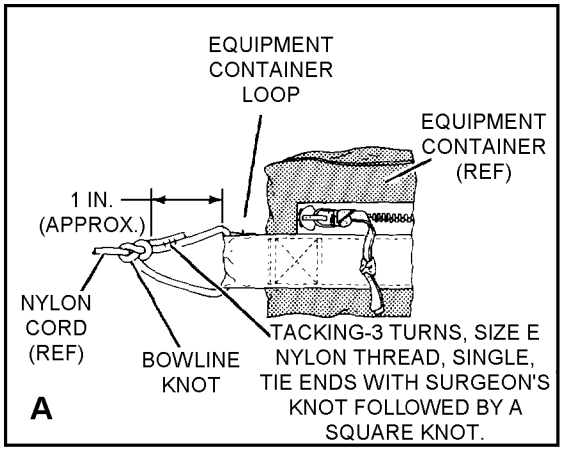
NOTE

Survival items shall be stowed in a neat and orderly fashion and the items shall be arranged to obtain the flattest possible pack.

4. Stow survival items within height, length and width of the equipment container.

5. Close equipment container.

6. Place equipment container in aft section of lower container with slide fastener facing aft (figure 10-5).



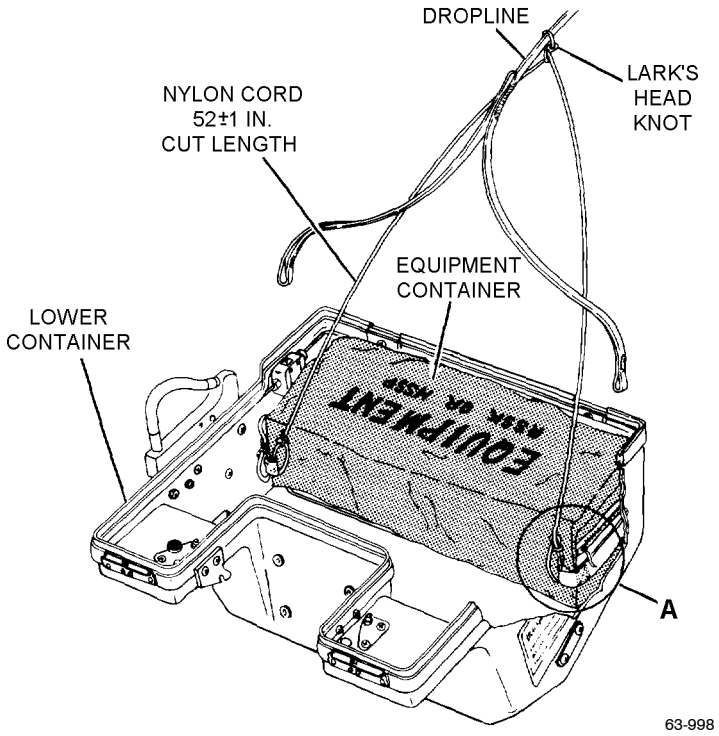


Figure 10-5. Stowed Survival Equipment

NOTE

If fabrication/installation of equipment container, nylon cord, securing line is required, perform step 7.

All tacking cord shall be coated with a mixture of 50% beeswax and 50% paraffin. The cord may be dipped in a melting pot 160° to 200°F or drawn across a solid block of the mixture.

7. Cut a 52 ±1-inch piece of nylon cord, Type III, MIL-C-5040, and sear ends. Secure cord to equipment container and dropline as shown in figure 10-5.

10-23. STOWING DROPLINE. To stow dropline in boots, proceed as follows:

NOTE

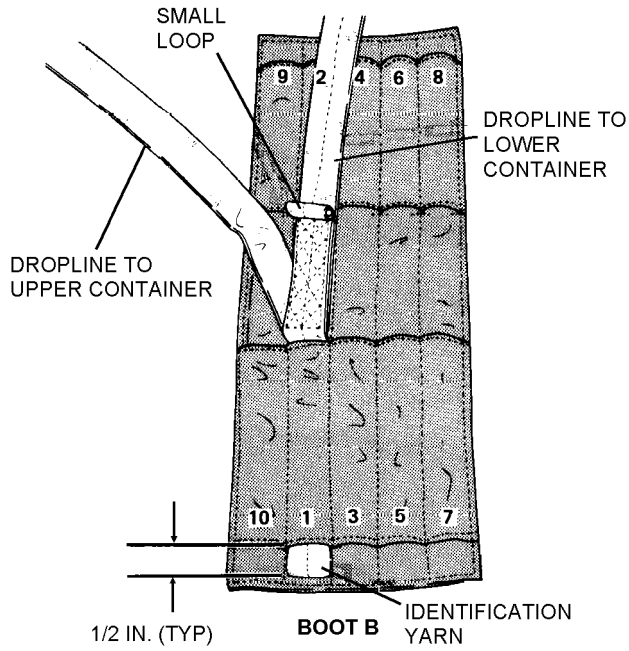
Stowage boots are referred to as boot A and boot B for identification purposes only. There are no physical differences between boots and the letters A and B do not actually appear on them.

Numbers on stowage channels of boots correspond to dropline bights and the order in which they are to be stowed. Numbers appear in illustration for clarity, they do not actually appear on stowage boots.

The identification yarn on earlier fabricated dropline assemblies may be located on the underside of the webbing. However, procedural steps depicting identification yarn location will be reversed throughout the dropline stowage procedures for these assemblies. Future fabrication of the dropline for the RSSK-8 will be accordance with paragraph 10-75.

1. Lay dropline out flat between container halves with dropline loops facing up. Remove all twists from dropline prior to beginning stowing operation.

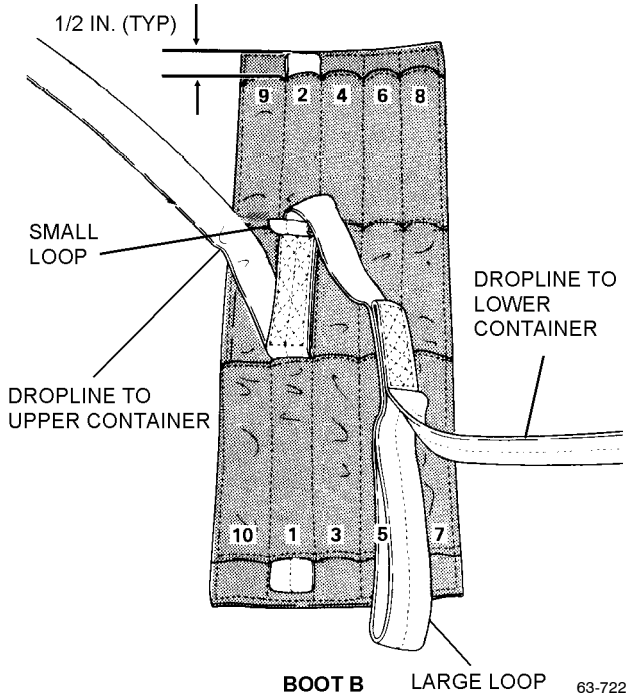
2. Position boot B to the left of lower container. Form the first bight 5 ±1/2 inch from base of small loop stitching. Bight shall be in portion of dropline going to upper container and small loop shall face up. Stow bight in channel 1 of boot B. Push bight in channel with a 7-inch length of 3/8-inch hard wood dowel tapered at one end. There shall be a 1/2-inch protrusion at end of channel and identification yarn shall be visible at protrusion.



63-721

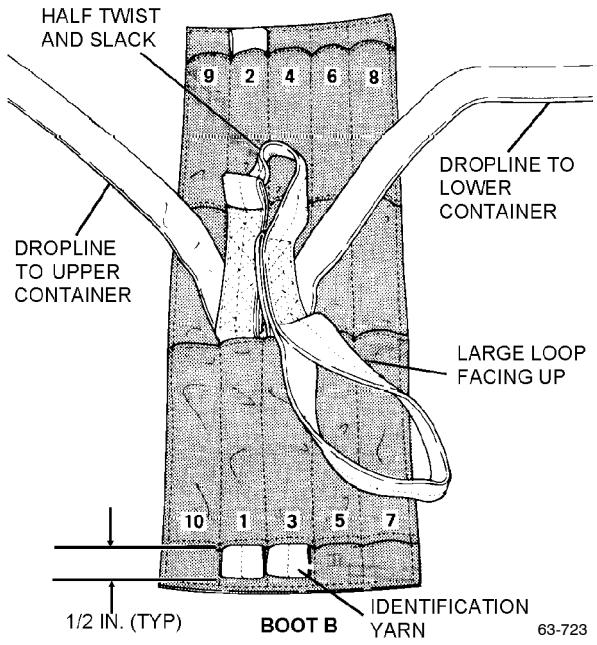
Step 2 - Para 10-23

3. Second bight shall be formed in portion of dropline going from small loop to large loop and shall be stowed in channel 2. Identification yarn shall not show at protrusion.



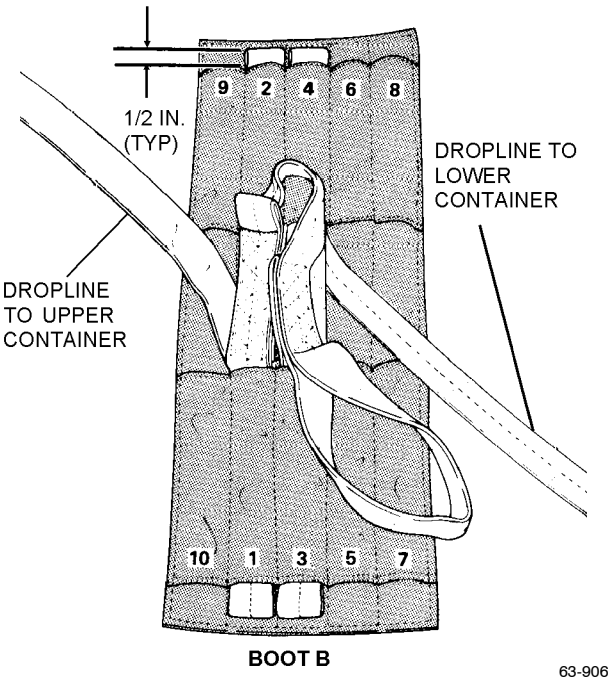
Step 3 - Para 10-23

4. Place a half-twist in dropline by rotating clockwise so that large loop faces up. Stow third bight in channel 3. A small amount of slack may exist between bights 2 and 3. Identification yarn shall be visible at protrusion.



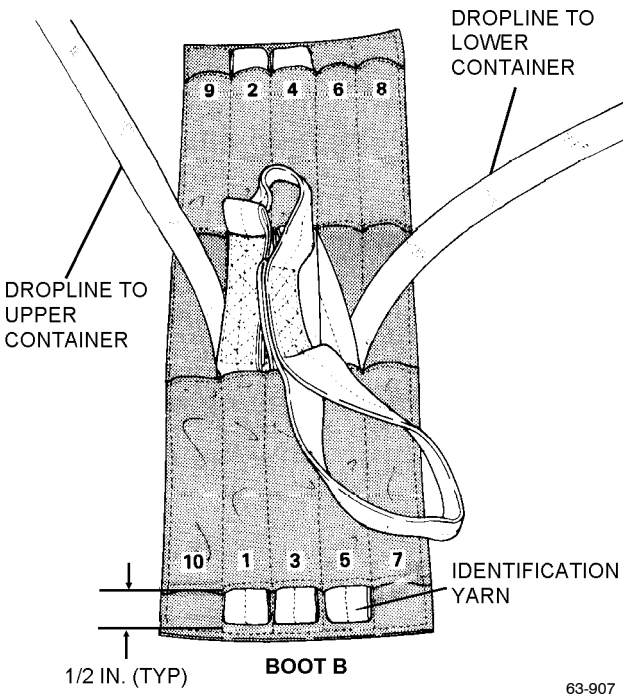
Step 4 - Para 10-23

5. Stow fourth bight in channel 4, ensuring that identification yarn does not show at protrusion.



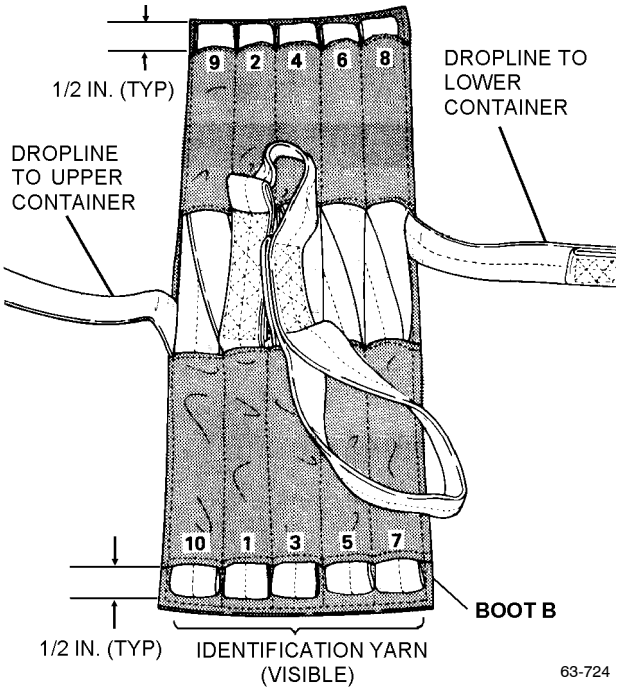
Step 5 - Para 10-23

6. Stow fifth bight in channel 5, ensuring that identification yarn is visible at protrusion.



Step 6 - Para 10-23

7. Stow remainder of dropline in boot B in accordance with numbering sequence on boot as shown, maintaining 1/2-inch protrusion. If there is insufficient line, due to allowable tolerance in length of dropline, a full stow may be impossible in channel 8.

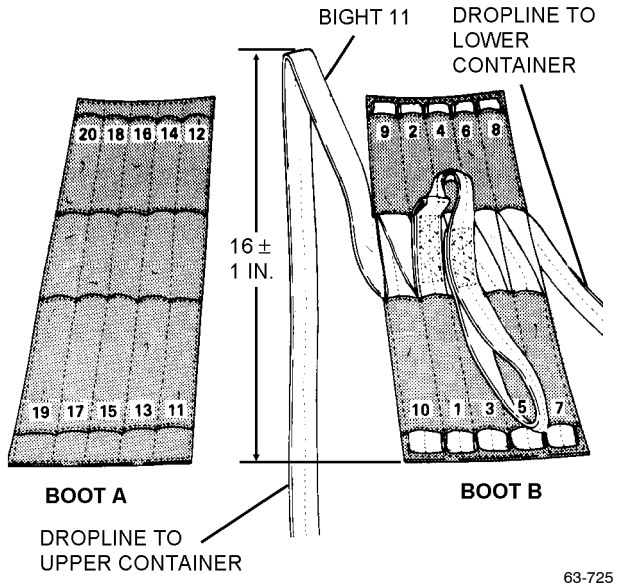


Step 7 - Para 10-23

NOTE

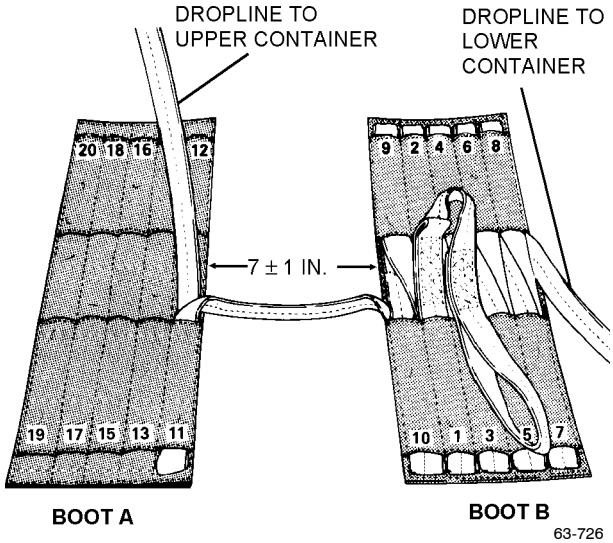
Upon the completion of step 7, identification yarn shall be visible at channels 1, 3, 5, 7 and 10, and shall not show at channels 2, 4, 6, 8 and 9.

8. Form bight 11 in dropline 16 ±1 inch from bottom of last bight (bight 10) in boot B.



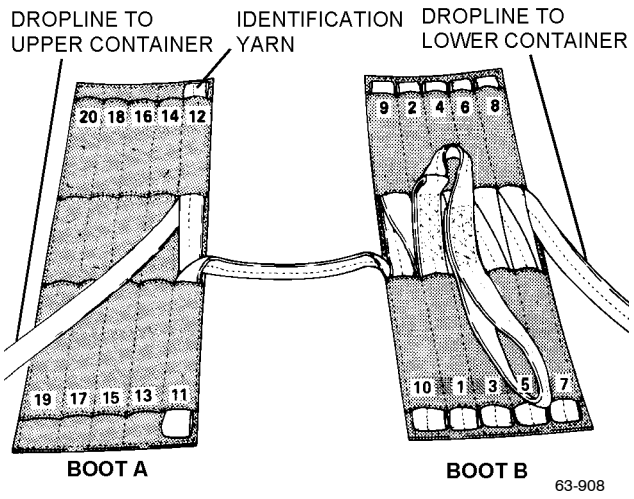
Step 8 - Para 10-23

9. Stow bight 11 (formed in step 8) in channel 11 of boot A. There shall be 7 ±1 inch of dropline between boots A and B when bight 11 is stowed. Identification yarn shall not show at protrusion.



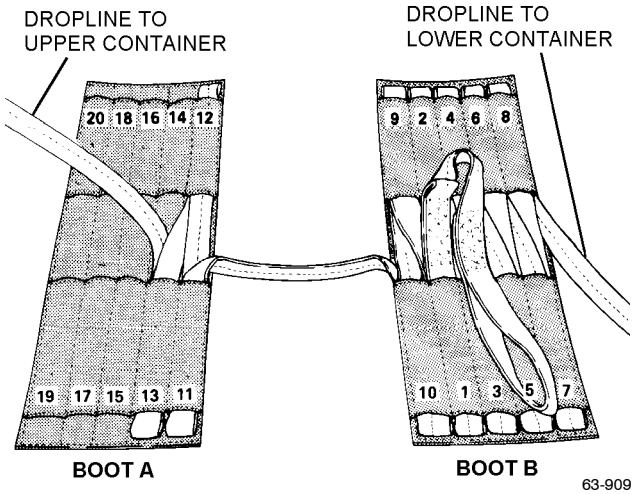
Step 9 - Para 10-23

10. Stow bight 12 in channel 12 of boot A. Identification yarn shall be visible at protrusion.



Step 10 - Para 10-23

11. Stow bight 13 in channel 13. Identification yarn shall not show at protrusion.



Step 11 - Para 10-23

12. Continue stowing bights in boot A until all line is stowed. Maintain 1/2-inch protrusion (figure 10-6).

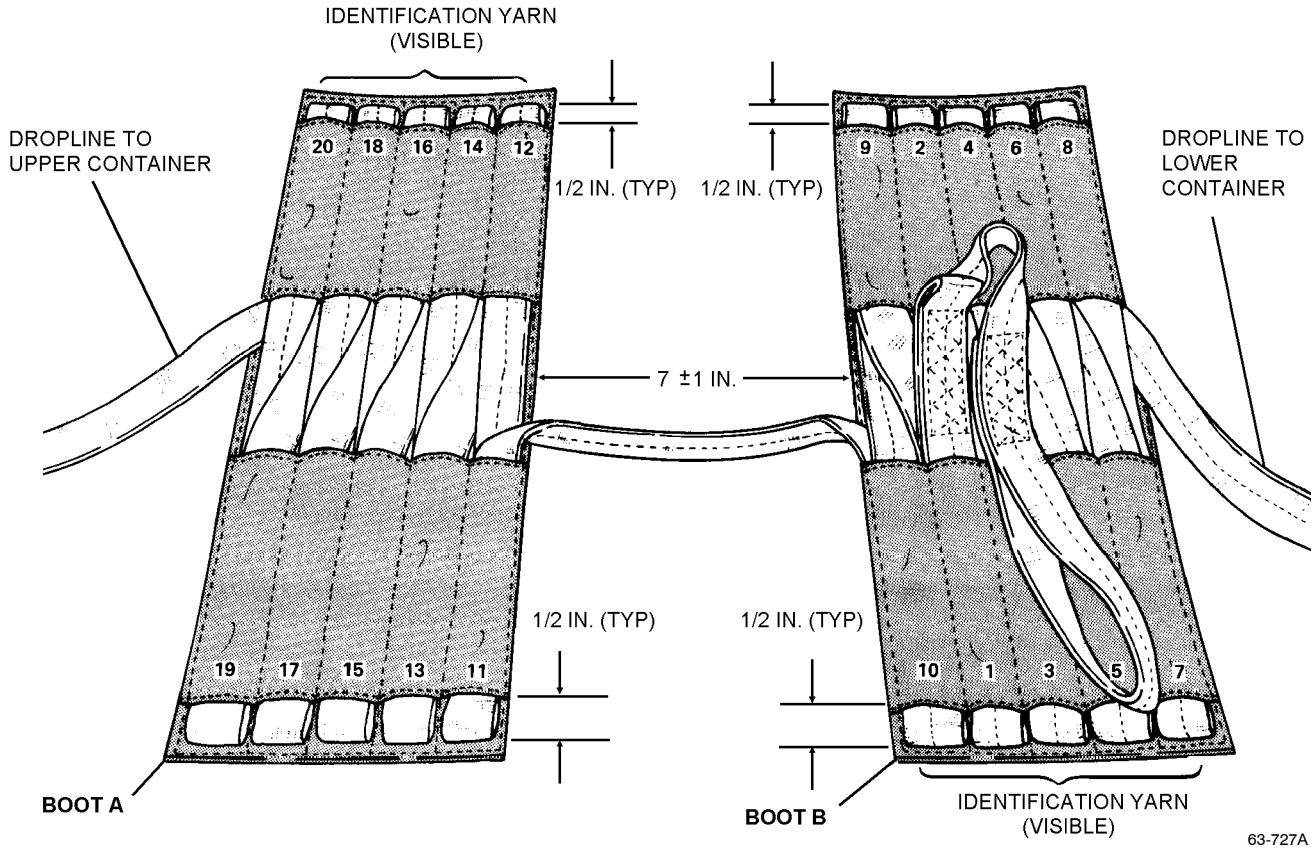


Figure 10-6. Stowage of Dropline

NOTE

Upon the completion of step 12 identification yarn shall be visible at channels 12, 14, 16, 18 and 20 and shall not show at channels 11, 13, 15, 17 and 19.

13. Ensure all stows are properly formed and that there are no twists in dropline.

10-24. LIFERAFT PREPARATION, FOLDING, RIGGING AND PACKING. To prepare, fold, rig and pack the LR-1 liferaft, proceed as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Cord, Nylon, Type III, 550-Pound	MIL-C-5040 NIIN 00-240-2146
As Required	Thread, Nylon, Type II, Class A, Size E	V-T-295 NIIN 00-244-0609
As Required	Talc, Technical	MIL-T-50036A
As Required	Thread, Nylon, Type II, Class A, Size 6	V-T-295 NIIN 00-559-5211
1 (Optional)	Lowering Device, Personnel	CL213D2-1 or Fabricate IAW NAVAIR 13-1-6.5

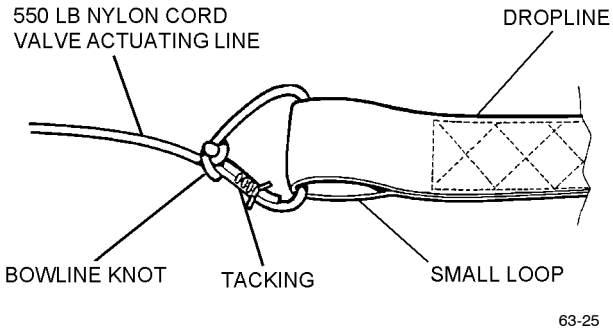
Support Equipment Required

Quantity	Description	Reference Number
1	Wrench, Torque 0-150 lb. in.	TE-6FUA (CAGE 55729)

1. If the valve actuating line is damaged, incorrectly installed or not installed, install new line in accordance with steps 2 and 3.

2. Cut 15-inch length of 550-pound, Type III nylon cord and sear ends.

3. Route one end through small loop on dropline and tie bowline knot. Tack with three turns of waxed, size E nylon thread, single. Tie ends with surgeon's knot followed by square knot.



Step 3 - Para 10-24

4. Lay liferaft assembly flat with inside facing upward (step A, figure 10-7).

5. Ensure all trapped air is expelled from liferaft. Ensure oral inflation valve is locked and stowed in pocket prior to folding.

6. Lightly dust entire liferaft assembly with talc.

7. Secure sea anchor line in 3-inch bights, fold, and stow in pocket (step B, figure 10-7).

8. Roll and secure weather shield (step C, figure 10-7).

9. Fold liferaft as follows:

NOTE

This taper-type folding process is necessary so that part of liferaft fits inside U-shaped oxygen cylinder.

a. Fold stern of liferaft over at slight angle so that maximum width of fold is approximately 6 inches (step D, figure 10-7).

b. Fold liferaft again in same direction as step D, to obtain fold 15 inches at long edge and 10 inches at short edge (step E, figure 10-7).

c. Fold bow of liferaft over at slight angle so that maximum width of fold is approximately 8 inches (step F, figure 10-7).

d. Fold liferaft again in same direction as previous fold to obtain 15 inches at long edge and 10 inches at short edge (step G, figure 10-7).

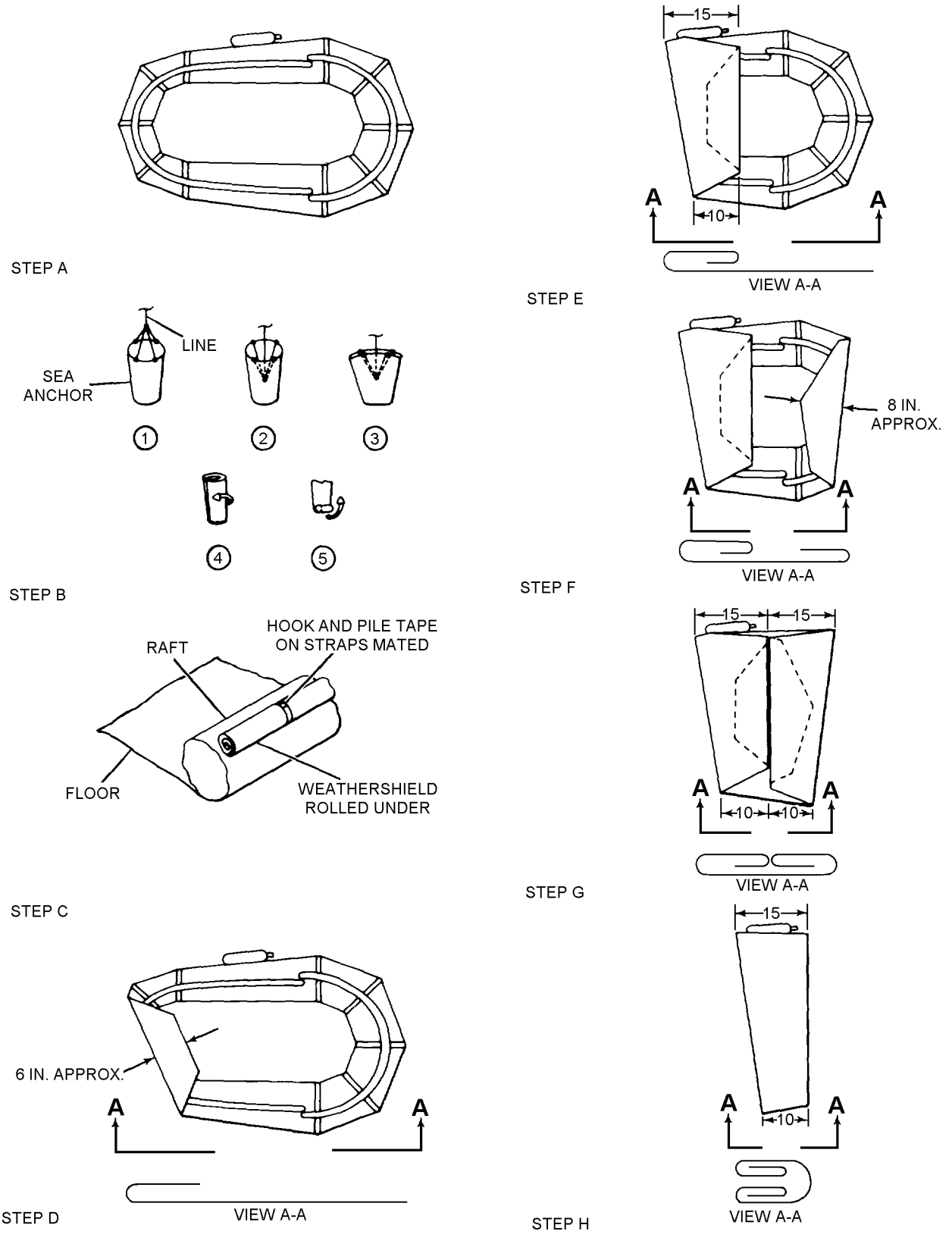


Figure 10-7. Folding Liferaft

e. Fold bow portion of liferaft over on top of previous folds. Maximum width of folded liferaft shall not exceed width of RSSK-8 raft cover. Adjust folds as necessary (step H, figure 10-7).

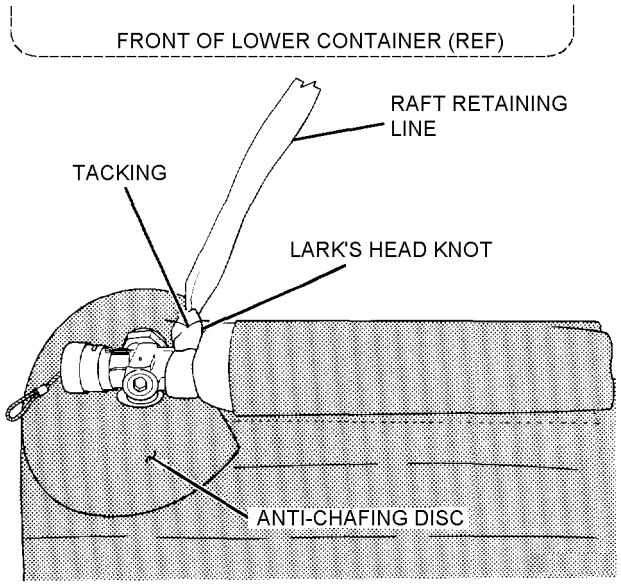
10. Turn folded liferaft over. Place liferaft assembly forward of lower container with carbon dioxide cylinder positioned toward lower container and facing up. Inflation valve assembly shall face release handle side of survival kit.

WARNING

Gas under pressure. Do not loosen or attempt to remove inflation valve assembly from CO_2 cylinder.

11. Disconnect inflation valve from liferaft. Do not remove cylinder from stowage pocket. Retain anti-chafing disc on inlet check valve.

12. Attach retaining line to cylinder with lark's head knot. Pull knot tight and tack with two turns of waxed nylon thread, size 6, single. Tie ends with surgeon's knot followed by square knot.



63-709A

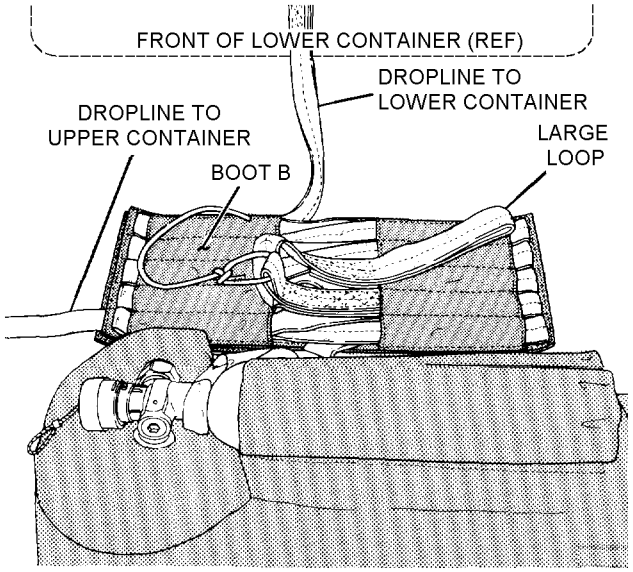
Step 12 - Para 10-24

13. Accordion fold remainder of retaining line and stow in raft retaining line pocket. Close pocket closure tab and secure hook and pile tape.

NOTE

When repositioning boots, it may be necessary to move upper container. Make adjustments as necessary.

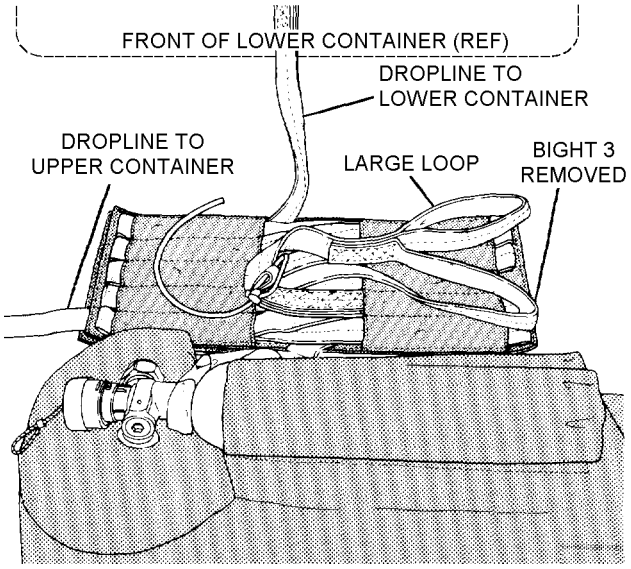
14. Position boot B on top of boot A and place boots between raft and lower container with large loop of dropline facing to the right.



63-728

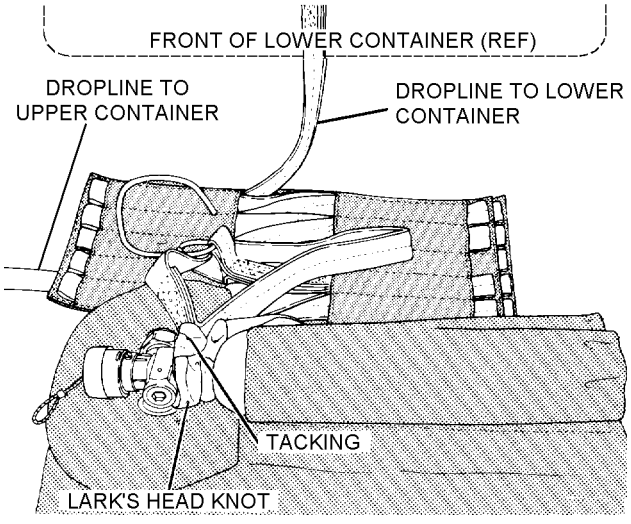
Step 14 - Para 10-24

15. Remove bight from channel 3, boot B.



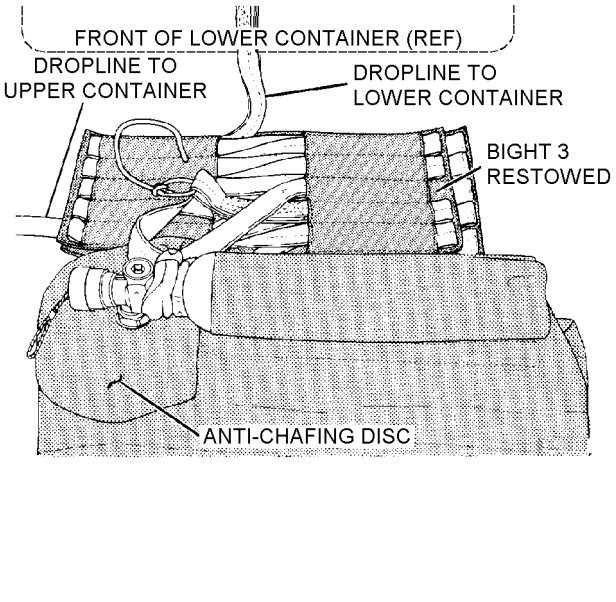
Step 15 - Para 10-24

16. Attach large loop of dropline around neck of cylinder with a lark's head knot. Pull knot tight and tack with two turns of waxed size 6 nylon thread, single. Tie ends with a surgeon's knot followed by square knot.



Step 16 - Para 10-24

17. Ensure CO_2 cylinder anti-chafing disc is installed. Attach inflation valve to liferaft inlet valve and tighten coupling nut to a torque value of 80 to 90 in-lbs. Stow bight removed from channel 3 of boot B. Bight will not extend full length of channel.

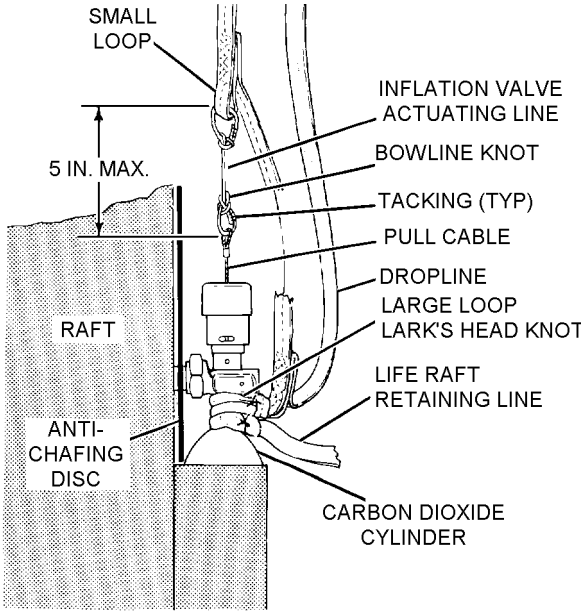


Step 17 - Para 10-24

WARNING

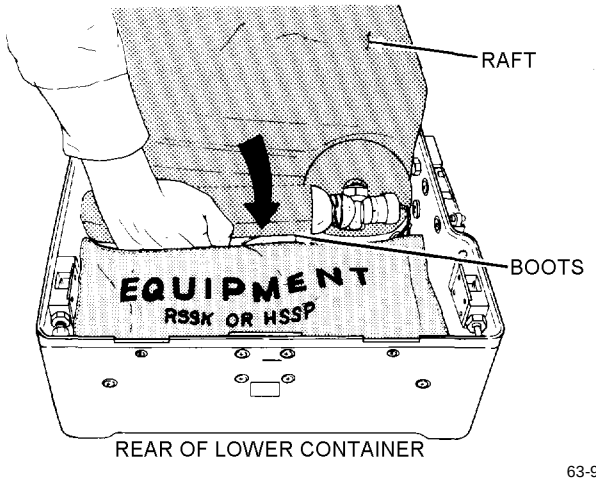
Final dimension of valve actuating line is critical. Finished length shall not exceed 5 inches.

18. Pass actuating line through loop in end of pull cable. Tie loop using bowline knot. Tack with three turns of waxed, size E nylon thread, single. Tie ends with surgeon's knot followed by square knot. Finished length shall not exceed 5 inches.



Step 18 - Para 10-24

19. Place boots in forward section of lower container and rotate CO_2 cylinder away from packer so that cylinder rests on top of boots in lower container.

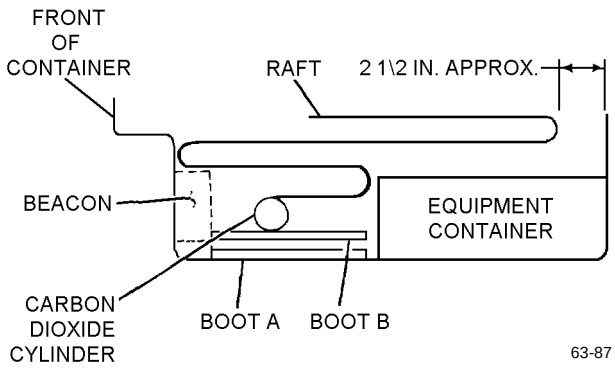


Step 19 - Para 10-24

NOTE

Personnel Lowering Device (PLD) is intended for use during survival situations in heavy foliage or jungle areas and may be installed at the discretion of the area/type commander. If PLD is utilized, proceed to step 20.

20. Fold and stow raft in lower container assembly. Position last fold approximately 2 1/2 inches from rear of lower container, as shown.

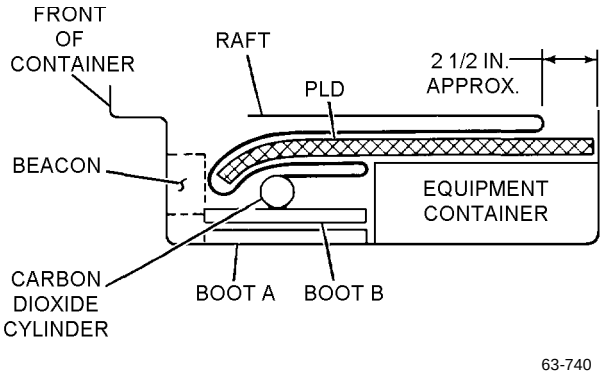


Step 20 - Para 10-24

NOTE

If PLD is utilized, SRU-31/P packets must be stowed on aviator and optional survival items shall be removed from equipment container (table 10-3).

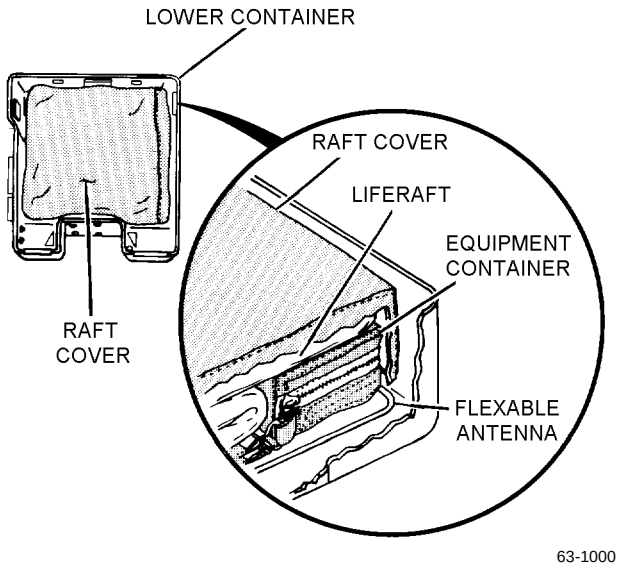
21. Fold and stow raft and position PLD in lower container assembly. Securely tie PLD retrieving line to right-hand upper container footman bracket with bowline and overhand knot. Ensure metal snaps are wrapped in chafing cloth. Ensure last fold is approximately 2 1/2 inches from rear of lower container, as shown.



Step 21 - Para 10-24

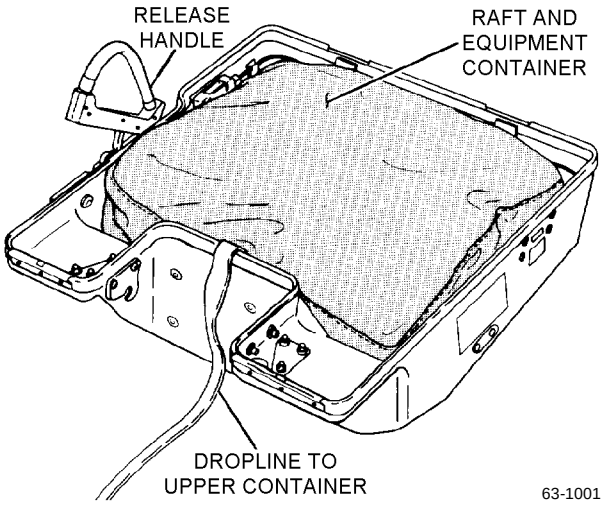
22. Place raft cover over raft and equipment container and tuck cover around raft using fid to push edges of cover down. Ensure that lid locks are free from obstruction and that raft cover does not protrude beyond edges of container.

23. Ensure flexible antenna is routed around periphery of lower container.



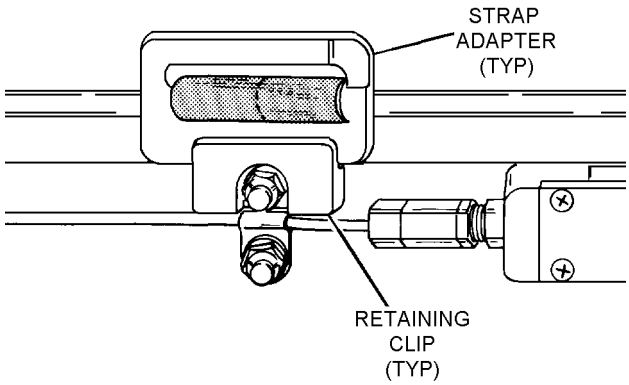
Step 23 - Para 10-24

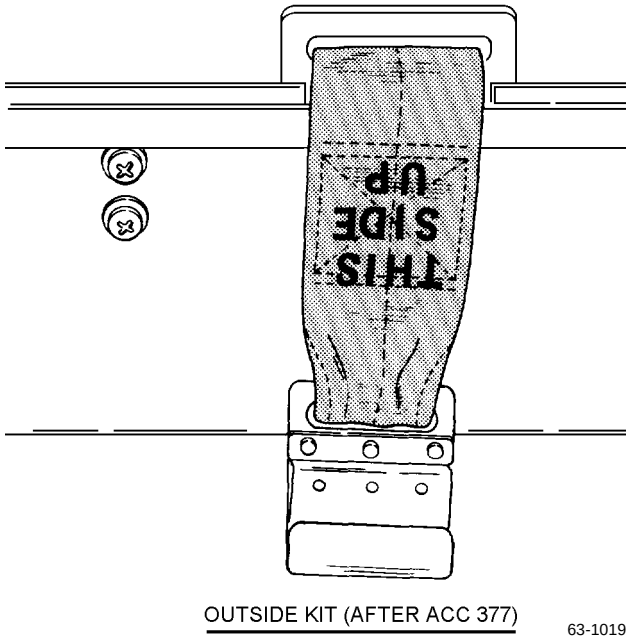
24. Route excess dropline out forward center of lower container.



Step 24 - Para 10-24

25. Install parachute retention straps by inserting strap adapter into each retaining clip on rear wall of lower kit container. Pass webbing through slots in rear wall of kit.





Step 25 - Para 10-24

10-25. CLOSING CONTAINER. To close the container, proceed as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Krytox 240AC Type III	MIL-G-22617 NIIN 00-961-8995 (CAGE 73925)
As Required	Thread, Nylon, Type II, Class A, Size 6	V-T-295 NIIN 00-559-5211
As Required	Cord, Nylon, Type III 550-Pound	MIL-C-5040 NIIN 00-240-2146
As Required	Thread, Nylon, Type II, Class A, Size E	V-T-295 NIIN 00-244-0609

Support Equipment Required

Quantity	Description	Reference Number
1	Dial Push/Pull Gage, 0 to 50 lbs.	DPP-50 (CAGE 11710)

1. Place upper container on top of lower container.

2. Engage hinges on front of containers.

3. While closing container, lead emergency oxygen actuating lanyard through hole in right side of left thigh support.

4. Ensure lock engagement is made by checking slots on lower container.

5. When container is closed, insert release handle into actuator assembly. Ensure handle is fully seated and locked.

6. Examine extruded metal lip around container. All locks shall be engaged and seam undistorted. If containers are not properly secured, release handle and repeat steps 2 through 5.

7. Perform release handle pull test (paragraph 10-26).

8. Charge oxygen system in accordance with paragraph 10-41.

9. Remove inspection hole plug.

WARNING

If reducer toggle has been twisted or forced beyond vertical (cocked) position, carefully reposition toggle. If cables/cable balls are not properly positioned open RSSK-8 and position cables so that toggle is free to move.

10. Using a flashlight, visually inspect position of reducer toggle (18, figure 10-27); ensure toggle is in the vertical (cocked) position relative to the reducer. Also check position of cable balls; ensure cables/cable balls are not wrapped around reducer toggle and jammed against the inside of kit lid.

11. Reinstall inspection hole plug.

12. If required close kit in accordance with steps 1 through 7.

NOTE

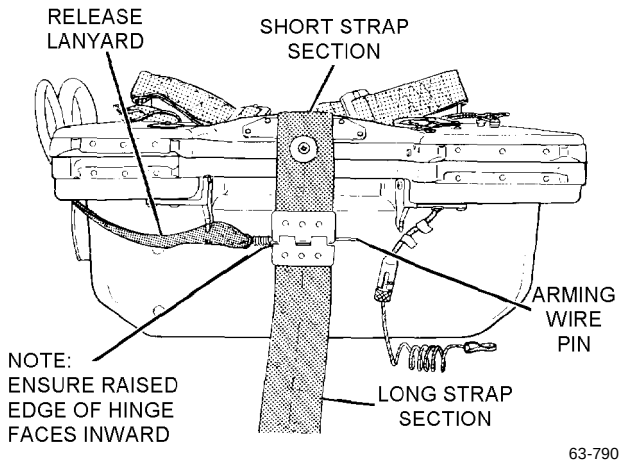
Steps 13 through 19 apply to earlier models of RSSK-8 Series survival kits, P/N's 102J100-1, -3, or -5, before incorporation of ACC 377. If ACC 377 has been incorporated, which designates RSSK-8D, or if RSSK-8E assembly is being serviced, proceed to step 20 and continue closing procedure.

13. (BEFORE ACC 377) Pass arming wire pin of release lanyard down through bracket on outside edge of right thigh support. Ensure release lanyard grip is fully seated in bracket.

NOTE

Before inserting arming wire pin, lubricate pin with light coating of KRYTOX 240AC (CAGE 73925).

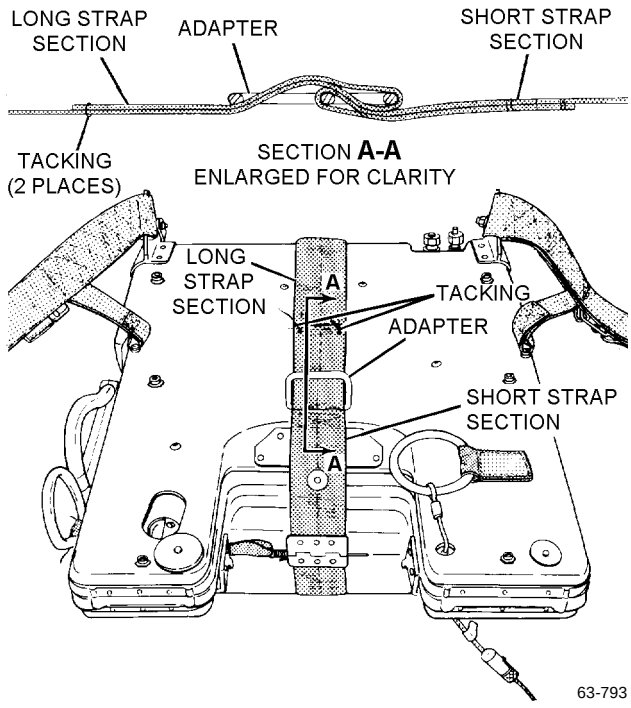
14. (BEFORE ACC 377) Mate hinge halves of closure strap with arming wire pin inserted from right to left through hinge. Ensure raised center portion of hinge is positioned against kit.



Step 14 - Para 10-25

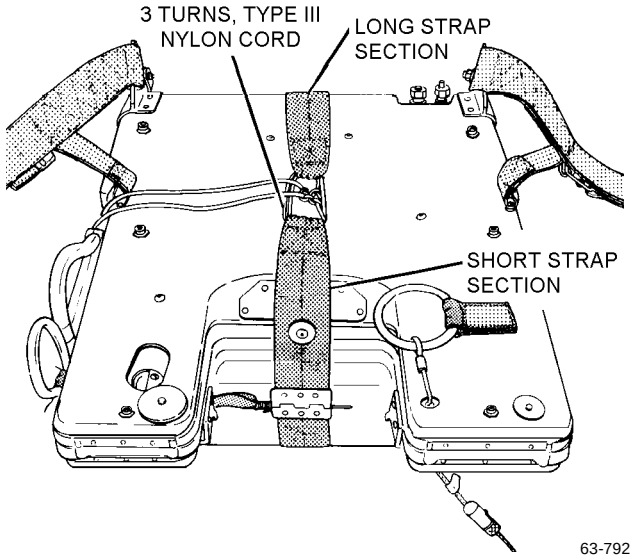
15. (BEFORE ACC 377) Route free end of long strap section down between kit thigh supports, along bottom of kit, and up to kit upper container.

16. (BEFORE ACC 377) (Closure strap with adapter) Reeve free end of long strap section through adapter on short strap section. Remove all slack in webbing strap. Fold over free end of long strap section and safety-tack with two turns of nylon thread, size 6, single, at both sides of webbing.



Step 16 - Para 10-25

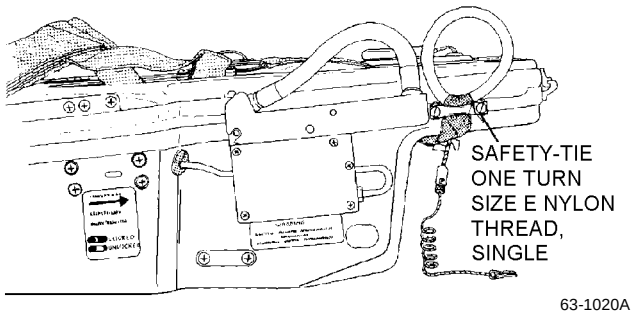
17. (BEFORE ACC 377) (Alternate-closure strap without adapter) Join two loops of closure strap with three turns of Type III nylon cord (MIL-C-5040), single. Pull tight to remove slack in closure straps and tie with a surgeon's knot and an overhand knot.



Step 17 - Para 10-25

18. (BEFORE ACC 377) Install Fhanstock clip on left end of arming wire pin. Position clip with flat surface against RSSK and open end of clip facing up. If clip is not available, safety-tie pin with one turn of size E nylon thread, single. Pass thread through pin eyelet and between hinge halves. Tie with surgeon's knot followed by square knot.

19. (BEFORE ACC 377) Ensure closure strap grip handle is installed upright in bracket and is fully seated. Safety-tie handle to bracket with one turn of size E nylon thread, single, to ensure perpendicular positioning.



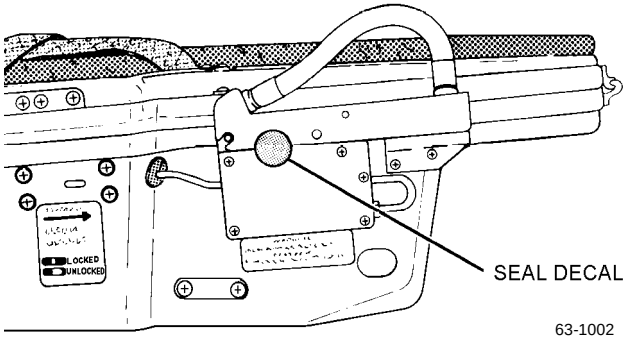
Step 19 - Para 10-25

20. Ensure manual emergency oxygen handle is properly secured so that ring portion protrudes in open space between thigh supports and will be readily accessible even after cushion installation.

21. Attach cushion to upper container.

22. Ensure oxygen gage shows and system indicates fully charged.

23. Apply seal decal (12 ND NARFA 78-A2) on RSSK seam where yellow release handle assembly adjoins bare metal lock mechanism. Before application, clean area thoroughly ensuring it is free of adhesive. Seal decal shall be applied whenever RSSK is closed.



Step 23 - Para 10-25

24. Make necessary entries on appropriate form in accordance with OPNAVINST 4790.2 Series.

10-26. Release Handle Pull Test. To perform the release handle pull test, proceed as follows:

Support Equipment Required

Quantity	Description	Reference Number
1	Dial Push/Pull Gage, 0 to 50 lbs.	DPP-50 (CAGE 11710)

1. Apply steady upward pull and note force required to unlock latches. Force required to unlock latches in first 1/2 to 5/8 inch of travel, measured at geometric center line of actuator link, shall be 10 to 30 pounds. With further upward travel, handle shall pull free of engagement link. If failure occurs, refer to paragraph 10-69.

2. Close container after pull-test.

10-27. (A-4/TA-4 A/C) COCKPIT ROUTING AND INSTALLATION OF THE EMERGENCY RADIO BEACON LANYARD. To rig emergency radio beacon for automatic actuation after installation in survival kit, proceed as follows:

Materials Required

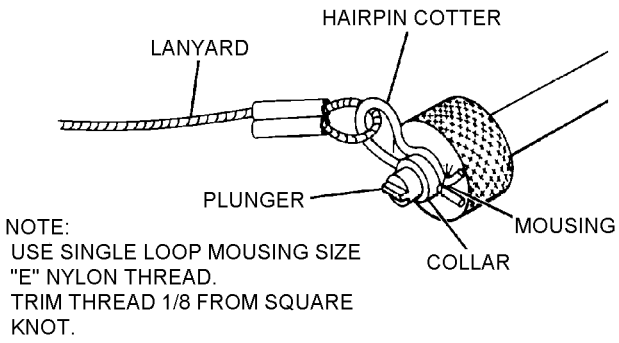
Quantity	Description	Reference Number
1	Lanyard, Actuation (A-4/TA-4 A/C)	CL204C4-6 (CAGE 80206)
As Required	Thread, Nylon, Type II, Class A, Size E	V-T-295 NIIN 00-244-0609

CAUTION

Do not release indicator plunger. Hold in depressed position and maintain pressure until hairpin cotter is replaced.

1. Depress indicator plunger and remove hairpin cotter.

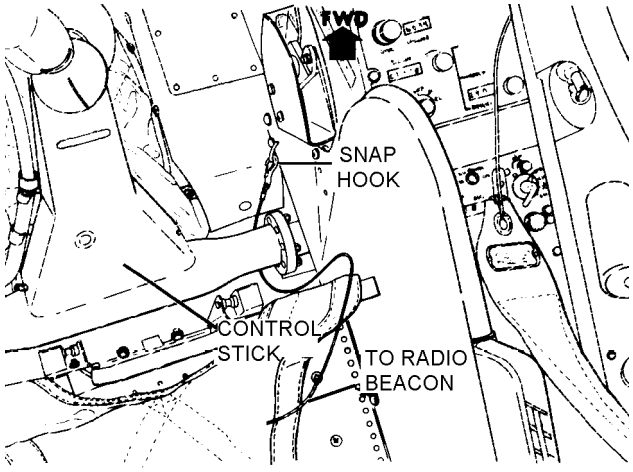
2. While maintaining pressure on plunger, secure plunger in depressed position using hairpin cotter attached to beacon automatic actuation lanyard. Pass cotter through aligned holes of indicator plunger and collar from which temporary hairpin cotter was removed. Safety-tie open end of hairpin cotter by applying single-loop mousing. Use size E nylon thread and secure mousing loop with square knot. Cut off excess length approximately 1/8 inch from knot.



Step 2 - Para 10-27

3. Remove existing screw on starboard side of cockpit and install D-ring and plate with screw.

4. Pass snaphook on actuating lanyard under aircraft control stick and snap to D-ring.



Step 4 - Para 10-27

5. Deleted.

6. Deleted.

7. Verify proper installation of kit into seat, and correct routing and connection of automatic actuation lanyard assembly.

10-28. (S-3 A/C) COCKPIT ROUTING AND INSTALLATION OF THE EMERGENCY RADIO BEACON LANYARD. To rig emergency radio beacon for automatic actuation after installation in survival kit, proceed as follows:

Materials Required

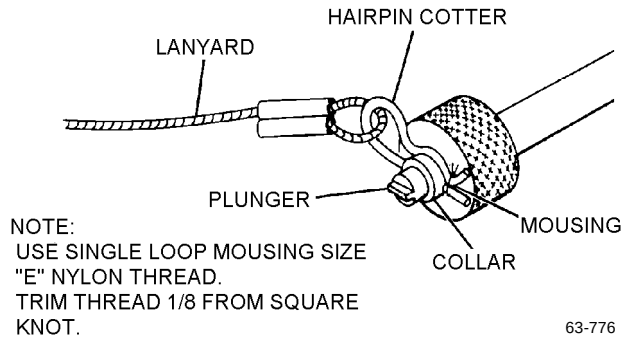
Quantity	Description	Reference Number
2	Lanyard, Actuation (Pilot, Copilot)	CL204C4-5 (CAGE 80206)
2	Lanyard, Actuation (TACCO, SENSO)	CL204C4-6 (CAGE 80206)
As Required	Thread, Nylon, Type II, Size E	V-T-295 NIIN 00-244-0609

CAUTION

Do not release indicator plunger. Hold in depressed position and maintain pressure until hairpin cotter is replaced.

1. Depress indicator plunger and remove hairpin cotter.

2. While maintaining pressure on plunger, secure plunger in its depressed position using hairpin cotter attached to beacon automatic actuation lanyard. Pass cotter through aligned holes of indicator plunger and collar from which temporary hairpin cotter was removed. Safety-tie open end of hairpin cotter by applying single-loop mousing. Use size E nylon thread and secure mousing loop with square knot. Cut off excess length approximately 1/8 inch from knot.



Step 2 - Para 10-28

NOTE

The following detailed procedures for routing of emergency radio beacon lanyard are divided into three general areas: pilot seat, copilot seat, and TACCO and SENSO seats.

3. Route emergency radio beacon lanyard for pilot's seat as follows:

a. Remove existing screw from vertical section of cockpit deck just forward of auxiliary power unit pressure gage.

b. Position D-ring and plate over screw hole and secure with screw.

NOTE

Ensure that coiled section of lanyard is outside seat bucket.

c. Connect lanyard (P/N CL204C4-5) snaphook to D-ring.

4. Route emergency radio beacon lanyard for copilot's seat as follows:

a. Remove existing screw from vertical section forward of copilot's seat.

b. Position D-ring and plate over screw hole and secure with screw.

NOTE

Ensure that coiled section of lanyard is outside seat bucket.

c. Connect lanyard (P/N CL204C4-5) snaphook to D-ring.

5. Route emergency radio beacon lanyard for TACCO's and SENSO's seats as follows:

a. Using nut and bolt presently fastening bailout oxygen lanyard clevis to floor bracket underneath seat, secure D-ring and plate to floor bracket.

NOTE

Ensure that coiled section of lanyard is outside seat bucket.

b. Connect lanyard (P/N CL204C4-6) snaphook to D-ring.

Section 10-4. Turnaround/Daily/Preflight/Postflight/ Transfer/Special/Conditional Inspection

10-29. GENERAL.

10-30. The Turnaround/Daily/Preflight/Postflight or Transfer Inspections consist of a visual type inspection performed in conjunction with the aircraft inspection requirements for the aircraft in which the survival kit is installed. These inspections shall be performed by line personnel (plane captain) or delegated aircrewmembers who have been instructed and found qualified by the Aviator's Equipment Branch.

10-31. The Conditional Inspection is an unscheduled inspection required as the result of a specific situation or set of conditions, e.g., hard-landing inspections or any inspection directed by higher authority that is not ordered in a technical directive.

10-32. The Special (7/14 day, etc.) Inspection shall be performed on inservice survival kits installed in aircraft or in ready room issue. This inspection shall be performed at the Organizational Level of maintenance by personnel assigned to the Aviator's Equipment Branch. Make necessary entries on appropriate form in accordance with OPNAVINST 4790.2 Series.

10-33. TURNAROUND/DAILY/PREFLIGHT/POSTFLIGHT/TRANSFER, OR SPECIAL INSPECTION PROCEDURES. These inspections consist of visual inspections of the following:

1. Cushion for secure attachment, rips, tears, and loose or frayed stitching.

2. (BEFORE ACC 377) Closure strap release lanyard safety ties and Fhanstock clip for presence and proper installation.

3. (BEFORE ACC 377) Closure strap hinge and arming wire pin for corrosion and damage.

4. Release handle for proper seating and corrosion.

5. Lift left side of cushion assembly and remove reducer toggle access plug. Using a flashlight visually inspect position of toggle; ensure toggle is in vertical (cocked) position relative to the reducer. Also check cables/cable balls for proper routing and en-

gagement; ensure cable balls are not jammed against lid of kit.

6. Check oxygen gage for FULL indication. Replace access plug and cushion assembly.

7. Emergency oxygen lanyard coupling assembly for spring security.

8. Emergency oxygen lanyard for proper installation and corrosion.

9. Manual emergency oxygen release for condition and security of attachment.

10. Container assembly for cracks, breaks, and other obvious damage.

11. Harness assemblies for loose or frayed webbing, stitching, and cracked or broken hardware.

12. Lapbelt release assembly for loose or missing screws and corrosion.

13. Beacon actuator indicator for bent shaft, hairpin cotter for elongation, corrosion, and proper mousing.

14. Secure attachment of beacon automatic actuation lanyard (if installed).

15. Seal decal for secure attachment, tears, or rips. If seal decal damaged, RSSK must be reclosed by IMA.

16. Condition of oxygen hose and secure attachment to kit. If repair procedure has been performed on oxygen hose assembly, check external wiring for secure attachment.

17. (S-3A A/C) Secure attachment of externally mounted electrical cable assembly to oxygen hose assembly.

10-34. If discrepancies are found or suspected, notify Maintenance Control.

10-35. Survival kits which do not pass inspection and cannot be repaired in the aircraft shall be removed in accordance with applicable aircraft manual and replaced with a Ready For Issue (RFI) survival kit. Non-RFI survival kits shall be forwarded to the nearest maintenance activity having repair capability for corrective action.

Section 10-5. Acceptance/Phased/SDLM/PDM Inspection

10-36. GENERAL.

10-37. An acceptance inspection shall be performed on a survival kit when it is placed into service or at the time a reporting custodian accepts a newly assigned aircraft from any source and on return of an aircraft from SDLM/PDM or other major D-level rework. The Phased/SDLM/PDM inspection cycle of the survival kit shall be 308 days. In no case, however, shall the phased interval exceed 308 days. The battery test inspection cycle for the AN/URT-33A radio beacon is dependent on the type of battery installed. Refer to NAVAIR 16-30URT33-1 for battery test inspection cycles and requirements. For acceptance inspection purposes, verification of pyrotechnics and configuration is accomplished by visual record examination only. Disassembly beyond the daily inspection requirements of applicable publications is not required. Activities may elect to increase the depth of the inspection if equipment condition, visual external inspection, or record examination indicates such action is warranted.

10-38. VISUAL INSPECTION. This inspection shall be performed prior to the functional check of the kit. Visually check kit for the following:

1. Cushion for rips, tears, and general condition.

2. (Before ACC 377) Closure strap hinge and pin for corrosion and for proper operation. Refer to paragraph 10-39.

3. Manual emergency oxygen release handle (green ring) for damage and security of attachment.

4. Release handle for wear, corrosion, and damage.

5. Upper and lower container for cracks, corrosion, and security of hardware.

6. Webbing for loose or frayed stitching and security of attachment.

7. Lapbelt release assembly for loose or missing screws and corrosion.

8. Swaged balls on cable assemblies for security of attachment. Refer to paragraph 10-40 for the swaged ball pull test to be performed during the Acceptance Inspection only.

10-39. (Before ACC 377) Closure Strap Arming Wire Pin Pull Test. To check for force needed to pull the arming wire pin from the hinge, proceed as follows:

Materials Required

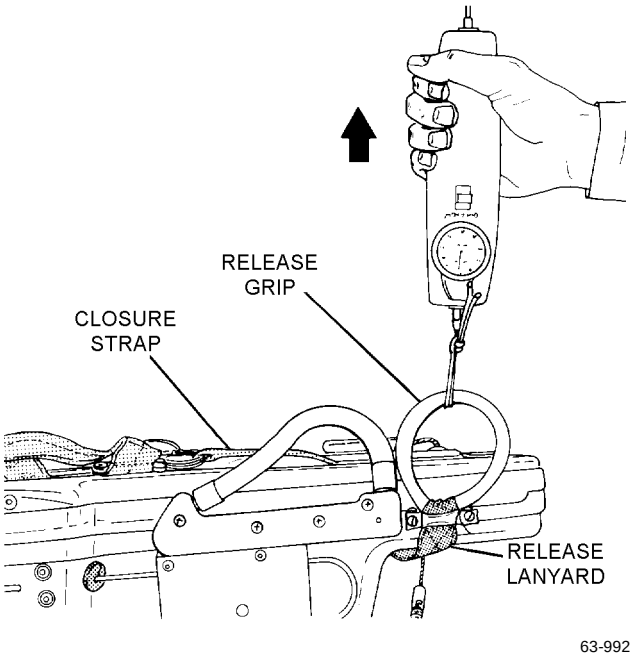
Quantity	Description	Reference Number
As Required	Krytox 240AC, Type III	MIL-G-27617 NIIN 00-961-8995

Support Equipment Required

Quantity	Description	Reference Number
1	Dial Push/Pull Gage, 0 to 50 Pounds	DPP-50 (CAGE 11710)

1. Attach push/pull gage to closure strap release grip.

2. Measure force required to pull arming wire pin free from hinge. Force required shall be 10 to 30 pounds.



Step 2 - Para 10-39

3. Visually inspect arming wire pin, hinge, and Fhanstock clip (if installed) for evidence of corrosion or damage.

4. Visually inspect closure strap release lanyard and closure strap webbing for evidence of fraying or damage. Replace all frayed or damaged items.

5. Lubricate arming wire pin with light coating of Krytox 240AC.

10-40. Swaged Ball Pull Test (Acceptance Inspection Only). To check the security of the swaged ball attachments on cable assemblies, perform pull test as follows:

Materials Required

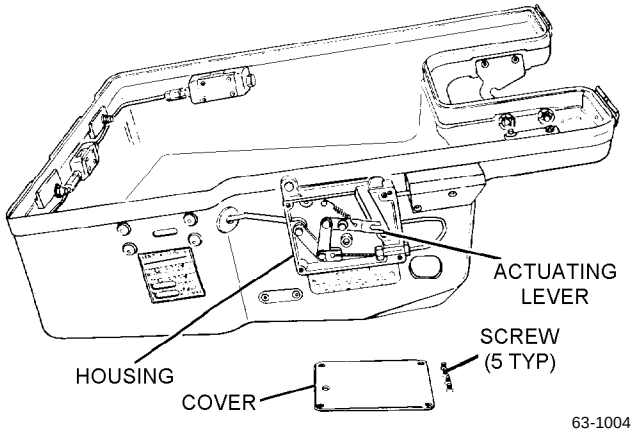
Quantity	Description	Reference Number
As Required	Nylon Cord, Type I	MIL-C-5040 NIIN 00-240-2154

Support Equipment Required

Quantity	Description	Reference Number
1	Dial Push/Pull Gage, 0 to 100 Pounds	DPP-100 (CAGE 11710)

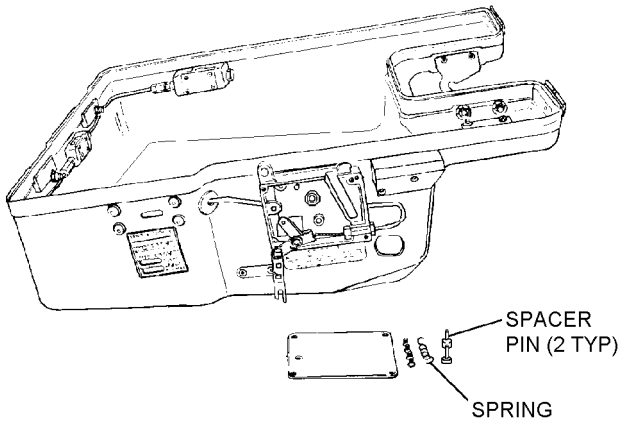
1. Remove five screws and cover from assembly.

2. Push actuating lever down.



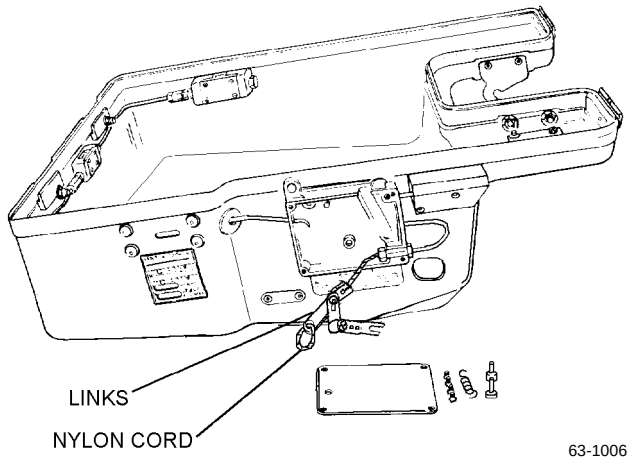
Step 2 - Para 10-40

3. Remove spring and two spacer pins. Lift actuating lever assembly with cable inserted in clevis from housing.



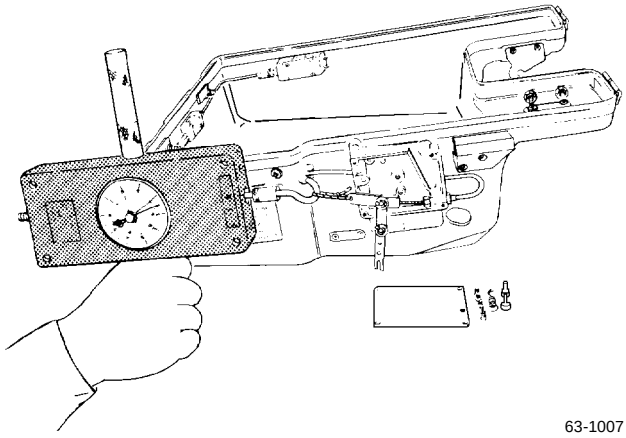
Step 3 - Para 10-40

4. Thread approximately 5 inches of nylon cord MIL-C-5040 through LINKS and tie both ends together.



Step 4 - Para 10-40

5. Insert hook of push/pull gage into loop of nylon cord.

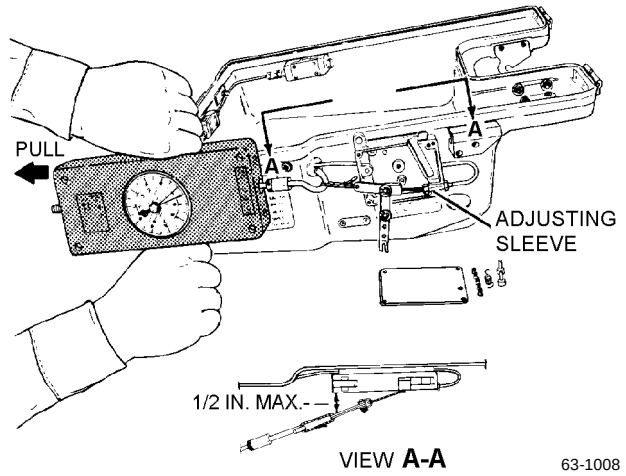


Step 5 - Para 10-40

CAUTION

Ensure adjusting sleeve does not move from housing while pull force is exerted.

6. Pull push/pull gage towards aft direction of kit and in normal direction of cable operation. Ensure links and clevis are not pulled from housing more than 1/2 inch. Swaged balls shall withstand 100-pound pull force.



Step 6 - Para 10-40

7. If assembly fails to meet specified pull force, slide ball off cable and swage new ball in same location.

8. Assemble parts and install cover on housing.

10-41. FUNCTIONAL CHECK. The functional check shall be performed anytime a kit is placed in service, after any adjustment procedures, or when equipment condition, visual external inspection, or record examination indicates such action is warranted to determine the condition of the kit. To perform a functional check proceed as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Leak Detection Compound, Type I	MIL-L-25567
As Required	Lint-free Cloth	MIL-C-85043 NIIN 00-044-9281

Support Equipment Required

Quantity	Description	Reference Number
1	Test Stand	59A120 (CAGE 02551) -or- 31TB1995-1 (CAGE 99251)
1	Dial, Push/Pull Gage, 0-50 Pounds	DPP-50 (CAGE 11710)
1	Toggle Reset Tool	Fabricate IAW paragraph 10-74

WARNING

Before use, inspect leak detection compound. Compound which is not clear and free from suspended material/sediment is considered contaminated and shall be disposed of. Compound exhibiting peculiar odors, such as acetone or alcohol, is considered contaminated and shall be disposed of.

CAUTION

Discontinue functional test if seat kit fails to pass any steps of test procedures. Repair malfunction before continuing procedures or damage to seat kit may result. After repair, the entire test procedure shall be performed.

NOTE

Performance of test stand is dependent upon skill of operator. It is imperative that operator be thoroughly familiar with instruments, controls, and connections that comprise systems incorporated in test stand. See NAVAIR 17-15BC-20 and NAVAIR 13-1-6.4-4 to familiarize yourself with 59A120 or 31TB1995 series liquid oxygen converter test stands.

Emergency oxygen cylinder pressures used in this functional test were derived under ideal shop conditions of 70°F (21°C). Variances in ambient air temperatures directly affect charging pressures. Refer to table 10-7 for details.

Ensure that emergency oxygen cylinder is filled to 1800 to 2000 psi.

1. Connect oxygen outlet hose of kit to fitting (C-1) and ensure that valve (V-2) is open and all other test stand valves are closed (figure 10-8).

2. Attach pull scale to manual emergency oxygen release handle.

3. Measure force required to actuate manual oxygen release. Force required shall be 10 to 30 pounds, and emergency oxygen system shall actuate and indicate 45 to 80 psi on gage (PG-1) on test stand.

4. Reset reducer.

5. Turn oxygen supply cylinder to test stand on.

6. Slowly open valve (V-6) on test stand and adjust pressure on gage (PG-1) to 90 psi.

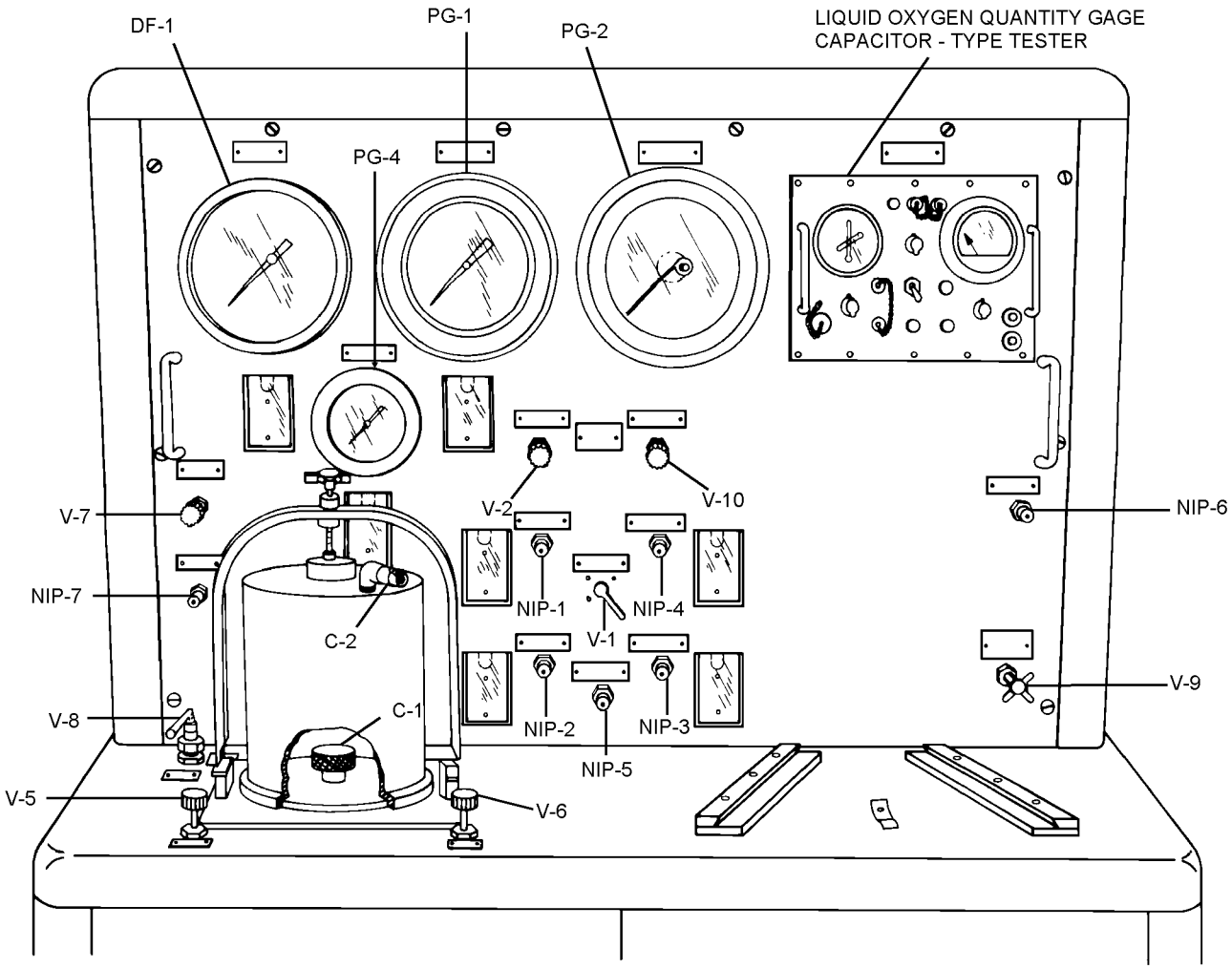
7. Measure the force required to actuate the manual oxygen release with a scale. Force required shall be 10 to 30 pounds.

NOTE

Any degree of leakage in the oxygen system requires corrective maintenance.

8. Using leak detection compound, check all pressure lines and fittings on kit to ensure no leakage.

9. Reset reducer.



C-1	BELL JAR BOTTOM COUPLING	PG-2	FLOWMETER INDICATOR GAGE
C-2	BELL JAR TOP COUPLING	PG-4	0 – 15 PSIG LOW PRESSURE TEST GAGE
DF-1	0 – 100" H_2O DIFFERENTIAL PRESSURE GAGE	V-1	FLOWMETER SELECTOR GAGE
NIP-1	0 – 0.25 LPM FLOWMETER CONNECTION	V-2	TEST PRESSURE GAGE TO BELL JAR VALVE
NIP-2	0 – 1 LPM FLOWMETER CONNECTION	V-5	SYSTEM BLEED VALVE
NIP-3	0 – 50 LPM FLOWMETER CONNECTION	V-6	OXYGEN SUPPLY VALVE
NIP-4	0 – 150 LPM FLOWMETER CONNECTION	V-7	DIFFERENTIAL PRESSURE BLEED VALVE
NIP-5	CONVERTER SUPPLY OUTLET CONNECTION	V-8	DIFFERENTIAL PRESSURE SHUT-OFF VALVE
NIP-6	SUPPLY TO CONVERTER CONNECTION	V-9	CONVERTER SUPPLY FLOW CONTROL VALVE
NIP-7	DIFFERENTIAL PRESSURE GAGE CONNECTION	V-10	TEST PRESSURE GAGE BUILD-UP AND FLOW VALVE
PG-1	0 – 160 PSIG TEST PRESSURE GAGE		

63-578

Figure 10-8. Test Stand Model 59A120

CAUTION

Do not increase pressure above 150 psi.

10. Using valve (V-6), increase pressure until relief valve unseats.

NOTE

Unseating can be determined by listening and observing gage (PG-1) on test stand.

11. Repeat step 10 several times to establish a correct pressure. Relief valve shall unseat at 120 to 140 psi when pressure is increased, and reseat at 110 psi minimum when pressure is decreased. Once reseated, relief valve shall be leak tight (no indication of pressure drop on PG-1).

NOTE

Pressure may be reduced below opening pressure of relief valve by closing valve (V-6) and opening valve (V-5).

12. Check relief valve using leak detection compound to ensure no leakage.

13. Close valve (V-6) and bleed oxygen pressure from system by opening valve (V-5). All pressure is bled when gages (PG-1) and (PG-4) indicate zero pressure.

14. Close valve (V-5).

15. Ensure valve (V-2) is opened and all other test stand valves are closed.

16. Measure force required to disengage automatic oxygen release with a scale. Force required shall be 10 to 30 pounds and emergency oxygen system shall actuate and indicate 45 to 80 psi on gage (PG-1) on test stand.

17. Reset reducer.

18. Open valve (V-5), and ensure that all other test stand valves are closed.

19. Actuate toggle on reducer to ensure positive flow through valve (V-5). Reset reducer assembly.

20. Open valve (V-8).

21. Slowly close valve (V-5), while observing gage (DF-1).

NOTE

Observe gage (DF-1) for two minutes to ensure no leakage. Any pressure rise indicates leakage in the reducer valve seat and requires corrective maintenance.

22. Close valve (V-8), open valve (V-5), and disconnect oxygen outlet hose from fitting (C-1).

23. Ensure all valves on the test stand are secured.

24. Connect oxygen outlet hose to fitting (NIP-6). Ensure that valve (V-10) is open and all other test stand valves are closed.

25. Connect test stand hose to fitting (NIP-5) and fitting (NIP-4).

26. Move valve (V-1) to (NIP-4) position.

27. Ensure that 1800 to 2000 psi is in oxygen cylinder of kit.

28. Pull manual oxygen release. Slowly open valve (V-9) to indicate 90 LPM on gage (PG-2). Oxygen pressure shall indicate 45 to 80 psi on gage (PG-1).

NOTE

When needle of cylinder pressure gage is between E and F of REFILL, pressure is approximately 250 psi.

29. Observe emergency oxygen cylinder pressure gage and allow system to decrease to 250 psi while maintaining 90 LPM and 45 to 80 psi pressure.

30. Close valve (V-9).

31. With zero flow indicated on gage (PG-2), pressure indicated on gage (PG-1) shall be 45 to 80 psi.

32. Reset reducer.

33. Bleed oxygen pressure from system by opening valves (V-5) and (V-2). All pressure is bled when gages (PG-1) and (PG-4) indicate zero pressure.

34. Disconnect kit from test stand.

35. Secure test stand.

36. All areas where leak detection compound was applied shall be wiped thoroughly clean. Dry with lint-free cloth, filtered low pressure compressed air, or low pressure nitrogen.

37. Recharge emergency oxygen cylinder to 1800 to 2000 psi. Refer to paragraph 10-42 for charging procedures.

38. Perform release handle pull test on a fully packed kit in accordance with paragraph 10-26.

10-42. PURGING AND CHARGING EMERGENCY OXYGEN SYSTEM. To purge and charge the emergency oxygen system proceed as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Leak Detection Compound, Type I	MIL-L-25567
As Required	Nitrogen, Type I, Class 1, Grade B	BB-N-411
As Required	Aviator's Breathing Oxygen, Type II	MIL-O-27210

Support Equipment Required

Quantity	Description	Reference Number
1	Oxygen Purging Electric Heater	C5378 (CAGE 96787) or Equivalent
1	Shut-off Valve	—
1	Pressure Regulator	—
1	Adapter, Filling (Optional)	21000T130-1 (CAGE 53655)

WARNING

Servicing of emergency oxygen system is accomplished only after removal of personnel parachute and survival kit from aircraft.

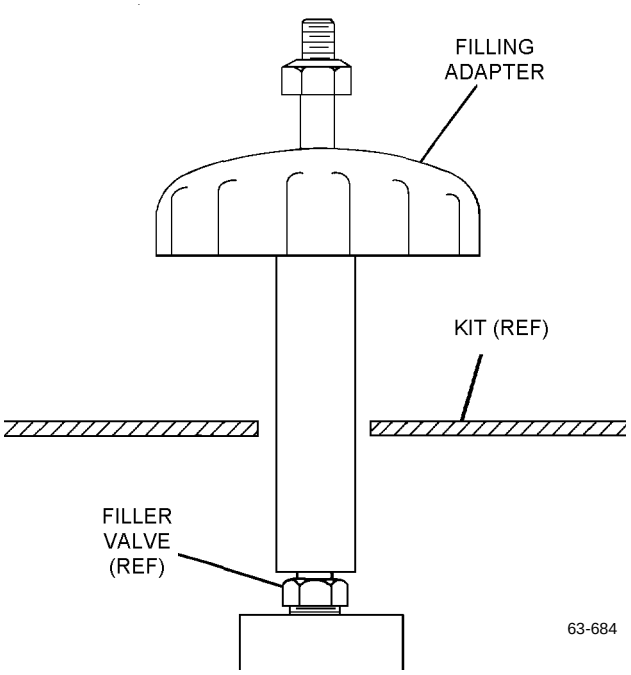
Before use, inspect leak detection compound. Compound which is not clear and free from suspended material/sediment is considered contaminated and shall be disposed of. Compound exhibiting peculiar odors, such as acetone or alcohol, is considered contaminated and shall be disposed of.

1. If survival kit assembly has not been removed from aircraft, remove personnel parachute and survival kit in accordance with applicable maintenance manual.

WARNING

If necessary to release pressure in oxygen bottle before purging/filling, pull emergency oxygen lanyard. This releases pressure through pressure reducer. DO NOT release pressure through filler valve or adapter. Releasing high-pressure oxygen through restriction of filler valve causes heat. Fire or explosion may result.

2. Remove oxygen filler valve cap and connect filling adapter to filler valve.



Step 2 - Para 10-42

NOTE

If the emergency oxygen system is contaminated or the cylinder has remained empty for more than 2 hours purging is required. If an emergency oxygen cylinder does not warrant the purging process proceed to step 10 for charging sequence.

3. Deplete emergency oxygen cylinder if necessary.

4. Connect nitrogen source to filling adapter, and close pressure reducer.

NOTE

If relief valve on Oxygen Purging Electric Heater will not allow 100 psi, raise pressure only to allowable limit.

5. Slowly pressurize to 100 psi with nitrogen at temperature of 110° to 130°C (230° to 266°F) using electric heater.

6. Turn off nitrogen source and deplete oxygen cylinder.

7. Repeat steps 5 and 6, twice.

8. With pressure reducer open, turn on nitrogen source and purge for 10 minutes at temperature of 110° to 130°C (230° to 266°F).

9. Turn off nitrogen source and disconnect.

10. Connect oxygen source to filling adapter with suitable pressure regulator and shut-off valve.

WARNING

When resetting reducer toggle ensure toggle is in the vertical (cocked) position and ensure cables and cable balls are not wrapped around reducer toggle and jammed against the inside of the kit lid.

11. Reset pressure reducer toggle and ensure toggle is in the vertical (cocked) position and cables and cable balls are not wrapped around reducer toggle and jammed against the inside of the kit lid.

12. Slowly pressurize to 100 psi.

13. Deplete cylinder to 50 psi.

14. Ensure that minimum slack exists in actuating cables of reducer/manifold, yet enough to ensure full engagement of toggle arm.

WARNING

Observe filling stages as rapid application of oxygen pressure creates heat which may result in fire or explosion.

Allow no less than 3 minutes for each filling stage and 2 minute intervals for cooling between stages.

NOTE

If kit is to be stored or shipped, the emergency oxygen bottle shall be depleted or filled to 200 PSI (when needle on gage bisects E of refill). For shipping, fill or deplete to 25 PSI using the gage on the oxygen refill cylinder.

15. Charge emergency oxygen system in stages in accordance with table 10-6 until pressure gage indicates correct pressure for existing ambient temperature (table 10-7).

WARNING

Visually ensure that filler valve does not turn as filling adapter is removed. Serious injury could result.

16. Loosen filling adapter until all pressure is bled from high-pressure line. Remove filling adapter.

NOTE

Alternate Fill Valve P/N 9120097-27 is coreless and has a maximum leakage rate of 1 cc/hr. This will be evident by very tiny bubbles passing though the top of the valve when leak detection compound is applied level to the top rim. No leaks around the threads are acceptable. If large bubbles are evident, contact survival kit FST for disposition.

17. Apply leak test compound around filler valve, gage and reducer. Check for leaks then wipe connections clean using a lint-free cloth.

18. Replace oxygen filler valve cap on filler valve.

19. If the personnel parachute and survival kit assembly were removed in step 1, install using the applicable maintenance manual.

Table 10-6. Charging Stages

Stage	PSI
1	500
2	1000
3	1500
4	1800
5	2000

Table 10-7. Ambient Air Temperature Vs Charging Pressures

Ambient Air Temperature		Charging Pressure
°F	°C	PSI
0	-18	1550-1750
10	-12	1600-1775
20	-7	1625-1800
30	-1	1675-1850
40	5	1700-1875
50	10	1725-1925
60	16	1775-1975
70	21	1800-2000
80	27	1825-2050
90	32	1875-2075
100	38	1900-2125
110	43	1925-2150
120	49	1975-2200
130	54	2000-2225

Section 10-6. Maintenance

10-43. GENERAL.

WARNING

Keep working area clean and free of oil, grease, and dirt. Do not attempt to perform any component removal with oxygen system pressurized.

NOTE

Unless otherwise indicated, maintenance instructions set forth in this section shall apply to all East/West RSSK-8 Series Survival Kit assemblies.

10-44. This section contains procedures for troubleshooting, disassembly, cleaning, inspection of disassembled parts, repair or replacement of parts, reassembly, and adjustment. Disassemble only to extent required to perform task. Work shall be performed in a clean, dust- and grease-free area.

10-45. TROUBLESHOOTING.

10-46. Where troubles or operating malfunctions are encountered, locate probable cause and remedy using table 10-8.

10-47. DISASSEMBLY.

10-48. Disassemble the survival kit using the index numbers assigned to figures 10-19 through 10-23 for the RSSK-8 and figures 10-24 through 10-29 for the RSSK-8E as references.

NOTE

Discard all O-rings, seals, cotter pins, and teflon sealing tape removed from oxygen connections during disassembly. Discard any threaded inserts, rivets, rubber pads, seals, molding, or hook and pile fasteners tape removed during disassembly of the kit.

10-49. DISASSEMBLY OF PRESSURE REDUCER (RSSK-8E ONLY). The following procedures disassemble the reducer assembly into three major areas: removal and disassembly of adjustment assembly, disassembly of high pressure assembly, and disassembly of low pressure assembly. Determine the area of malfunction using table 10-8 and disassemble only to the extent necessary to replace the defective component. See figure 10-9, and proceed as follows:

Support Equipment Required

Quantity	Description	Reference Number
1	Vise	—
1	Pressure Reducer Tool Set (figure 10-10)	T216D900-1 (CAGE 30941) NIIN 01-100-8928
1	Retaining Ring Pliers	S0100 (CAGE 79136)
1	Retaining Ring Pliers	SL0100 (CAGE 79136)
1	Toggle Reset Tool	Fabricate IAW paragraph 10-74
1	Hex Key, 5/32 Inch	—

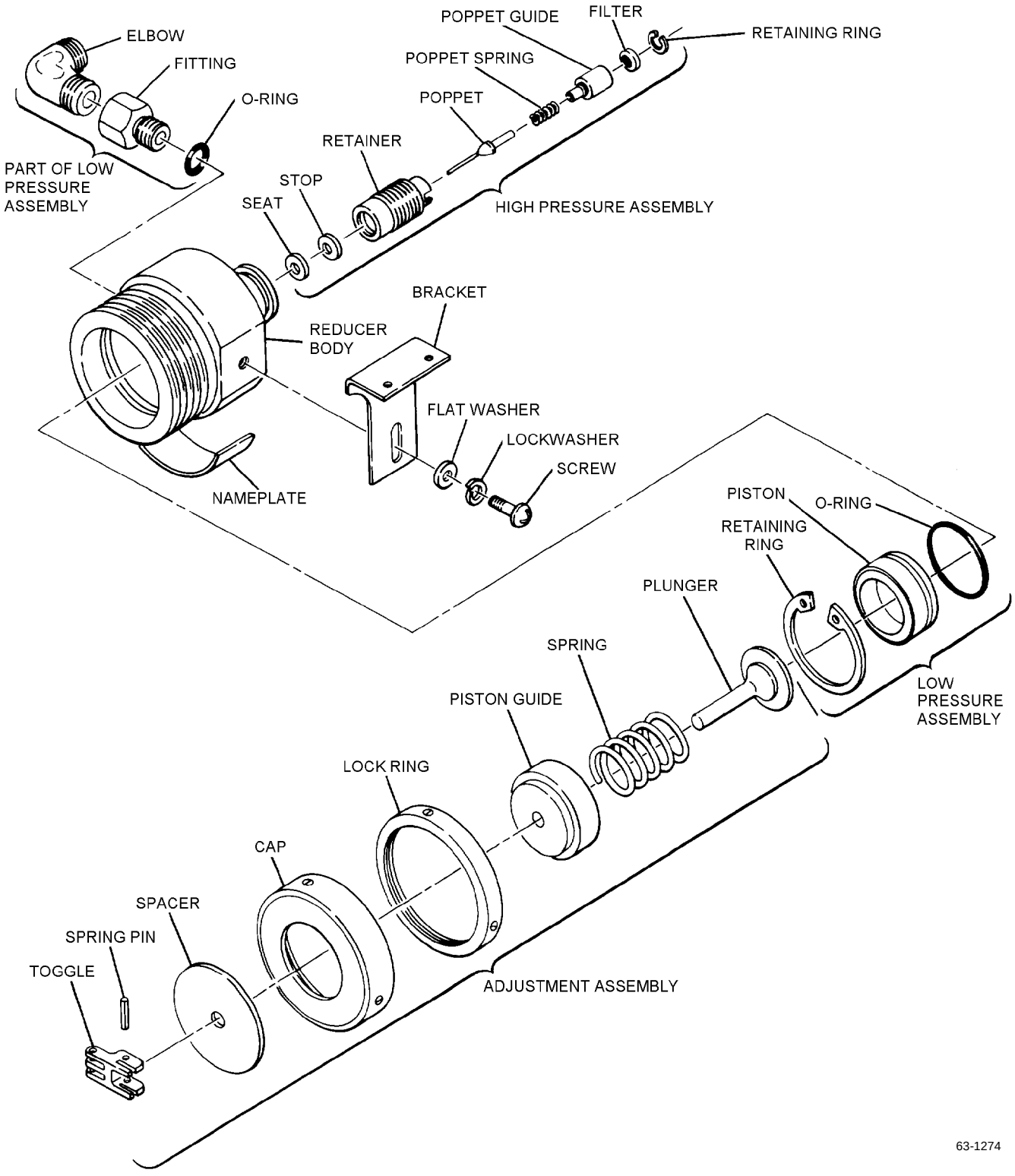


Figure 10-9. Reducer Assembly (RSSK-8E)

Table 10-8. Troubleshooting

Trouble	Probable Cause	Remedy
Low or zero pressure indication on oxygen gage.	Oxygen tube empty.	Recharge oxygen system in accordance with paragraph 10-42.
	Defective pressure gage.	Replace gage.
	Oxygen system components are leaking.	Tighten connections or replace defective parts as required.
No oxygen flow at kit-to-man hose from aircraft system (emergency oxygen system not actuated).	Defective check valve.	Replace check valve.
Relief Valve Leakage.	Defective valve.	Replace relief valve.
Emergency oxygen system relief valve does not operate within tolerance of 120 to 140 psi when simulated aircraft back pressure is applied during test.	Defective or incorrectly adjusted pressure relief valve.	Replace or adjust pressure relief valve in accordance with paragraph 10-70.
Oxygen flow exists at ship-to-kit hose when emergency oxygen system is actuated during test.	Defective check valve.	Replace check valve.
No oxygen flow kit-to-man hose when emergency oxygen system is actuated by emergency oxygen lanyard or emergency manual oxygen release.	Lower adjuster of oxygen actuator assembly not adjusted correctly: Oxygen lanyard or manual release pulls free of actuator assembly before reducer/ manifold toggle arm is operated by actuator cables.	Adjust oxygen actuator assembly in accordance with paragraph 10-71.
Emergency oxygen does not actuate when manual release is pulled.	Reducer toggle forced beyond vertical (cocked) position, canted or turned.	Reposition toggle.
	Cable balls may be wrapped around reducer toggle and jammed against inside of kit lid.	Inspect manual cable assembly and reposition.
		Inspect and adjust the emergency oxygen actuator cable assembly in accordance with paragraph 10-71.
Emergency oxygen does not actuate when automatic release is pulled.	Reducer toggle forced beyond vertical (cocked) position, canted or turned.	Reposition toggle and adjust the emergency oxygen actuator cable assembly in accordance with paragraph 10-71.

Table 10-8. Troubleshooting (Cont)

Trouble	Probable Cause	Remedy
Emergency oxygen does not actuate when automatic release is pulled. (Cont)	Automatic actuation cable out of adjustment.	Inspect and adjust the emergency oxygen actuator cable assembly in accordance with paragraph 10-71.
	Cable balls may be wrapped around reducer toggle and jammed against inside of kit lid.	
Pull force to actuate emergency oxygen system by emergency oxygen lanyard or emergency manual oxygen release is not within tolerance of 10 to 30 pounds.	Cable assembly broken.	Replace cable assembly.
	Foreign matter in actuator.	Clean actuator assembly.
	Expanded diameter of retaining ring on emergency manual oxygen release causing an increased retention load within adjuster of oxygen actuator assembly.	Replace oxygen actuator assembly.
	Burrs and corrosion on grip assembly and adjuster nut.	Polish off burrs and corrosion and lubricate.
Emergency lanyard coupling assembly loose.	Broken or missing spring.	Repair in accordance with paragraph 10-59.
Operation of handle fails to separate upper from lower container.	Lock actuating cable out of adjustment.	Adjust cable in accordance with paragraph 10-69.
	Broken, crushed or bent lock actuating cable assembly.	Replace discrepant cable.
	Damaged lock.	Replace discrepant lock.
	Swaged ball slipped off cable.	Install new swaged ball on cable.
Handle does not release from kit within tolerance of 10 to 30 pounds.	Broken, crushed or bent lock actuating cable assembly.	Replace discrepant cable.
	Damaged lock.	Replace discrepant lock.
Loss of aircraft communication.	Broken or misaligned pins and sockets in hose connectors. Open or short circuit in oxygen hose wiring.	Replace hose assembly for misaligned pins and sockets. Open or short circuited wiring, may be repaired. Refer to chapter 4.
Unable to obtain proper adjustment of lapbelt assembly.	Faulty lapbelt adjuster.	Inspect/replace lapbelt adjuster in accordance with paragraph 10-61.
	Improper routing of webbing.	

Table 10-8. Troubleshooting (Cont)

Trouble	Probable Cause	Remedy
(RSSK-8E ONLY) No oxygen output pressure with pressure reducer actuated.	Weak or broken spring (23, figure 10-27) in pressure reducer.	Bleed system; disassemble in accordance with paragraph 10-49 and replace spring.
	Pressure reducer out of adjustment.	Adjust pressure reducer in accordance with paragraph 10-68.
	Defective oxygen gage.	Bleed system; replace oxygen gage.
	Foreign matter in output flow path.	Bleed system; disassemble in accordance with paragraph 10-49 and clean.
	Poppet (13, figure 10-27) does not extend into position.	Bleed system; disassemble in accordance with paragraph 10-49 and replace poppet and seat.
(RSSK-8E ONLY) Oxygen system output pressure not within 45 to 80 psig limits.	Pressure reducer out of adjustment.	Adjust pressure reducer in accordance with paragraph 10-68.
	Weak or broken poppet spring (12, figure 10-27) in pressure reducer.	Bleed system; disassemble in accordance with paragraph 10-49 and replace poppet spring.
	Defective pressure reducer.	Replace reducer.
(RSSK-8E ONLY) Pulsating pressure at outlet port.	Bent plunger (24, figure 10-27).	Bleed system; disassemble in accordance with paragraph 10-49 and replace plunger.
(RSSK-8E ONLY) Oxygen system leaking; low pressure side of reducer.	Defective O-ring (27, figure 10-27).	Bleed system; disassemble in accordance with paragraph 10-49 and replace O-ring.
	Weak or broken poppet spring (12, figure 10-27) in pressure reducer.	Bleed system; disassemble in accordance with paragraph 10-49 and replace poppet spring.
(RSSK-8E ONLY) Pressure reducer will not shut off.	Bent poppet (13, figure 10-27).	Bleed system; disassemble in accordance with paragraph 10-49 and replace poppet.
	Broken poppet spring (12, figure 10-27).	Bleed system; disassemble in accordance with paragraph 10-49 and replace poppet spring.
	Dirt.	Bleed system; disassemble in accordance with paragraph 10-49 and clean.

Table 10-8. Troubleshooting (Cont)

Trouble	Probable Cause	Remedy
(RSSK-8E ONLY) Pressure reducer will not shut off. (Cont)	Misaligned seat (16, figure 10-27).	Bleed system; disassemble in accordance with paragraph 10-49 and replace seat.
	Defective retaining ring (9, figure 10-27).	Bleed system; disassemble in accordance with paragraph 10-49 and replace retaining ring.
(RSSK-8E ONLY) Pressure reducer does not meet required flows.	Pressure reducer out of adjustment.	Adjust pressure reducer in accordance with paragraph 10-68.
	Weak or broken poppet spring (12, figure 10-27) in pressure reducer.	Bleed system; disassemble in accordance with paragraph 10-49 and replace poppet spring.
	Improper assembly of pressure reducer.	Bleed system; disassemble in accordance with paragraph 10-49 and clean.
	Dirty filter assembly (10, figure 10-27).	Bleed system; disassemble in accordance with paragraph 10-49 and replace filter assembly.
(RSSK-8E ONLY) Oxygen system leaking; high pressure side of reducer.	Misaligned seat (16, figure 10-27).	Bleed system; disassemble in accordance with paragraph 10-49 and replace seat.
	Bent poppet (13, figure 10-27).	Bleed system; disassemble in accordance with paragraph 10-49 and replace poppet.
	Broken poppet spring (12, figure 10-27).	Bleed system; disassemble in accordance with paragraph 10-49 and replace poppet spring.
	Inverted backup ring. (15, figure 10-27).	Bleed system; disassemble in accordance with paragraph 10-49 and replace backup ring.
(RSSK-8D ONLY) Oxygen pressure at kit-to-man hose not within tolerance of 45 to 80 psi when emergency oxygen system actuated during test.	Defective oxygen reducer/ manifold.	Replace oxygen reducer/manifold.

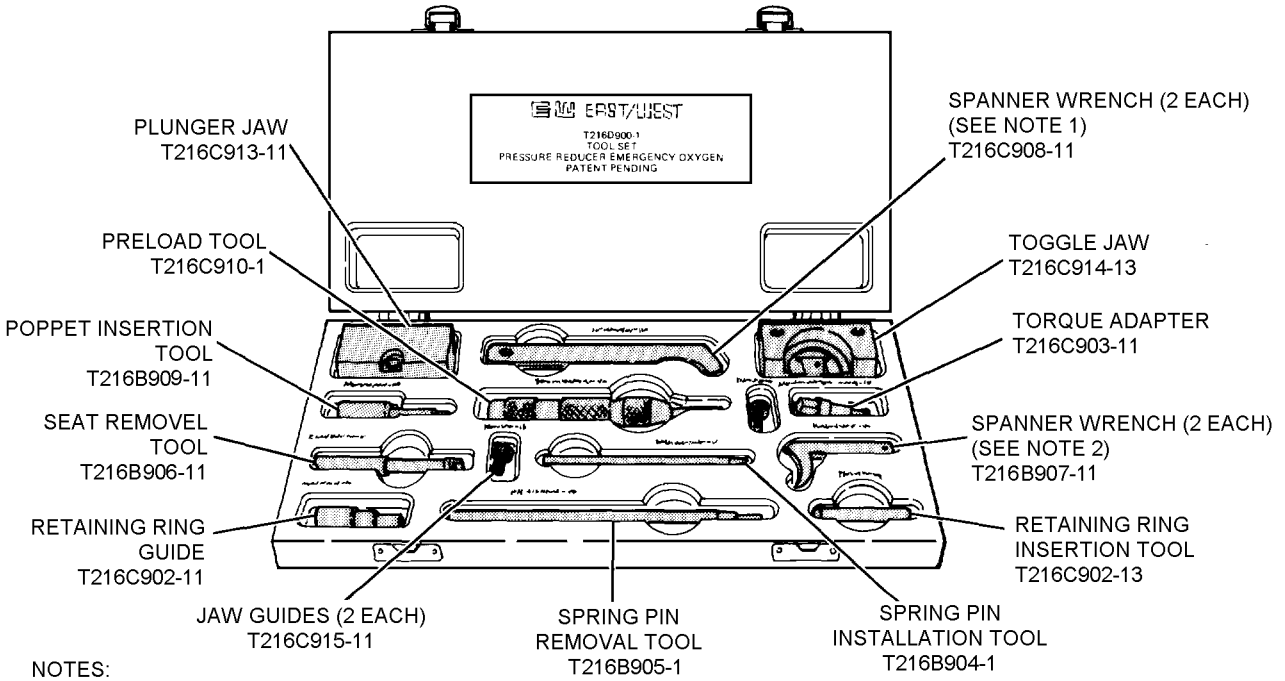


Figure 10-10. Emergency Oxygen Pressure Reducer Tool Set

WARNING

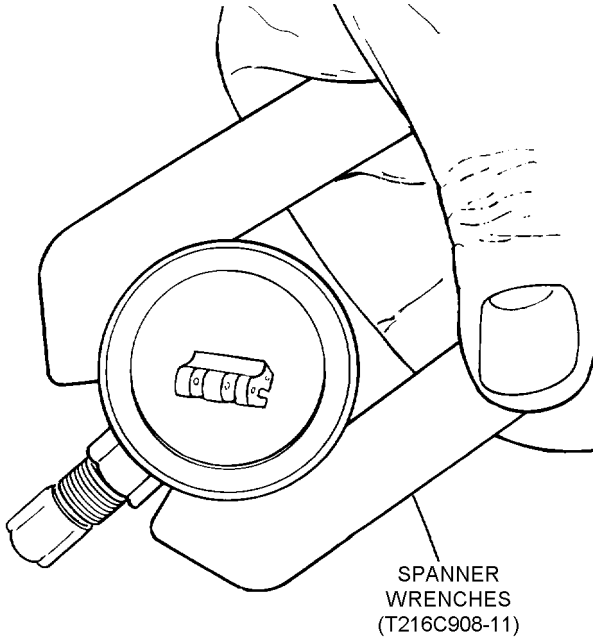
Do not use oil or any material containing oil in conjunction with oxygen equipment. Oil, even in a minute quantity, coming in contact with oxygen can cause explosion or fire. Dust, lint, and fine metal particles are also dangerous.

NOTE

Maintenance personnel are cautioned to read and thoroughly understand each step prior to the attempting any maintenance action.

1. Remove and disassemble adjustment assembly as follows:

a. Position oxygen pressure reducer assembly with cap adjustment side up. Loosen lock ring, using spanner wrench (T216C908-11) in a clockwise rotation while holding the adjusting cap with the second spanner wrench.



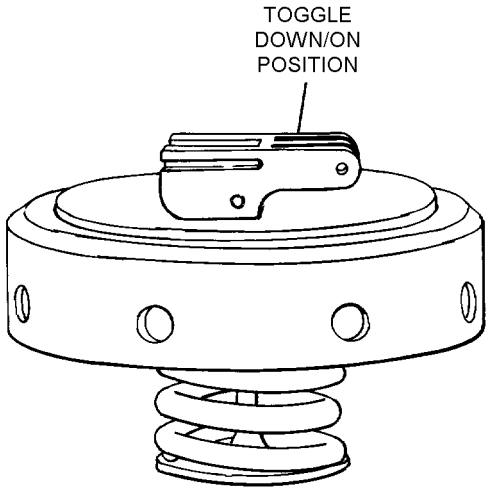
Step 1a - Para 10-49

NOTE

To permit hand removal of the adjustment assembly ensure that toggle is in upright (OFF) position. To obtain desired position, insert toggle reset tool in slot on either side of toggle and twist.

b. Remove adjustment assembly from pressure reducer by rotating in a counterclockwise direction.

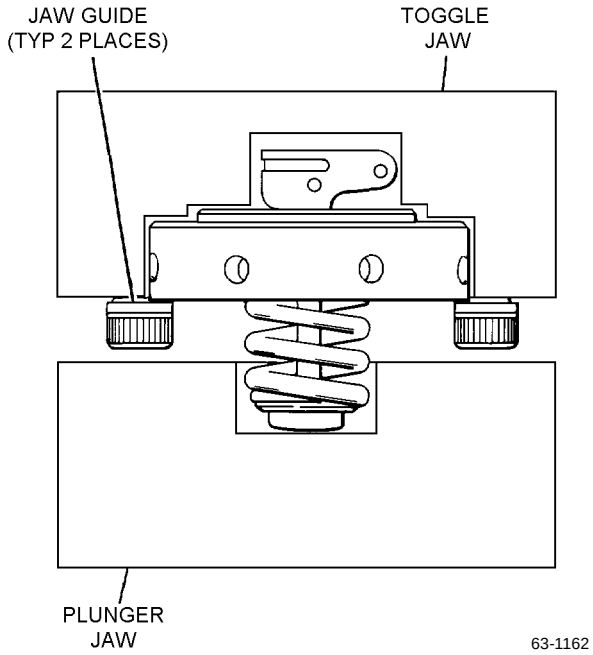
c. Using toggle reset tool, trip/rotate toggle to down (ON) position to reduce tension on toggle and plunger spring assembly.



Step 1c - Para 10-49

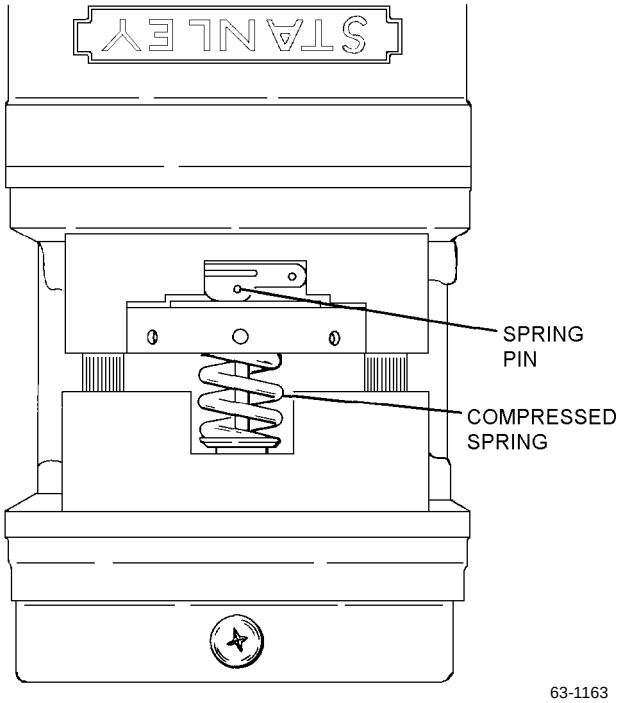
d. Using appropriate Allen key, screw jaw guides into the two threaded holes in the toggle jaw.

e. Position adjustment assembly in the toggle and plunger jaws.



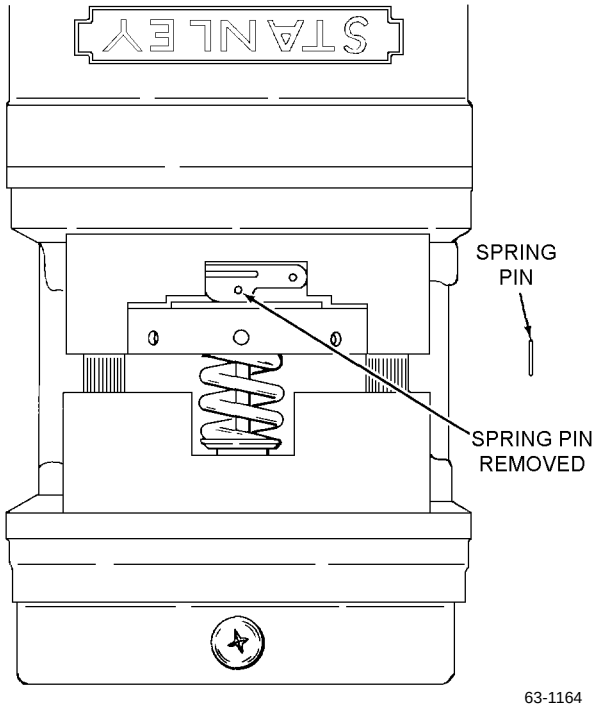
Step 1e - Para 10-49

f. Place toggle and plunger in a vise. Align fixture and tighten to compress spring and relieve tension on the spring pin and toggle attachment.



Step 1f - Para 10-49

g. Using spring pin removal tool, punch out spring pin and discard.

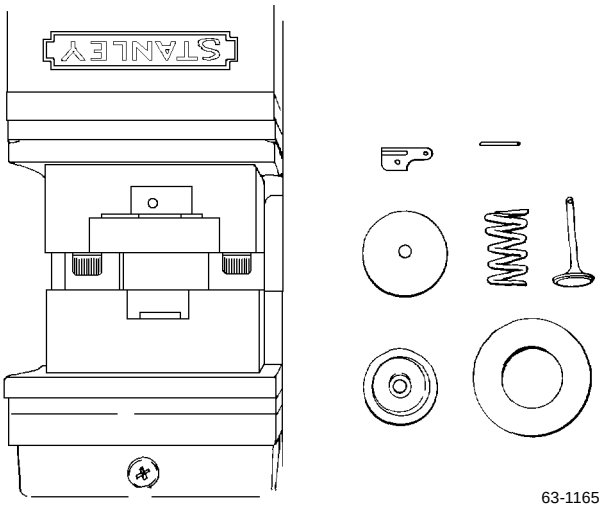


Step 1g - Para 10-49

NOTE

Spring pin is the only attachment point of components.

h. Loose vise jaws to relieve pressure. Remove adjustment assembly from toggle and plunger jaws and disassemble. Replace worn or defective parts as necessary.



Step 1h - Para 10-49

2. Disassemble low pressure assembly as follows:

a. Remove elbow.

b. Remove fitting.

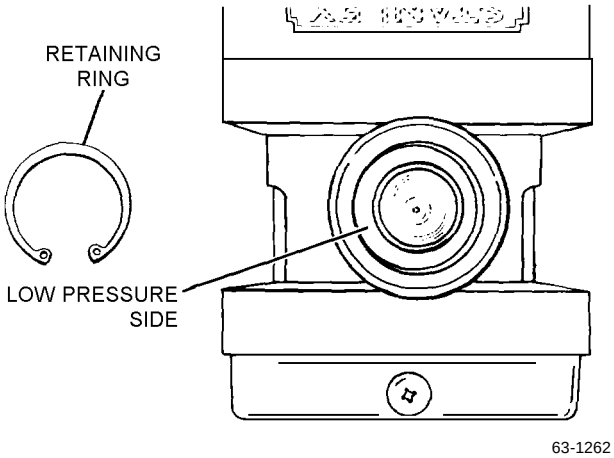
c. Remove and discard O-ring.

d. Position oxygen pressure reducer assembly with adjustment side or low pressure side up and secure.

NOTE

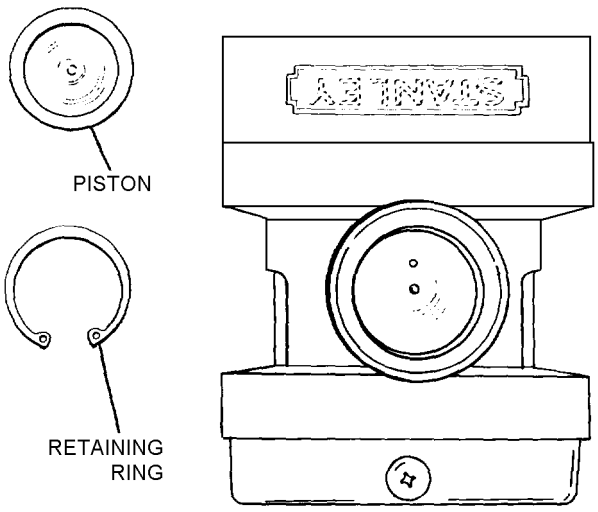
If adjustment assembly has not been removed, remove in accordance with step 1.

e. Remove retaining ring, using retaining ring pliers (SL0100) or equivalent.



Step 2e - Para 10-49

f. Remove piston from reducer body bore, using retaining ring pliers with points pressed against piston skirt.



63-1263

Step 2f - Para 10-49

g. Remove and discard O-ring from piston.

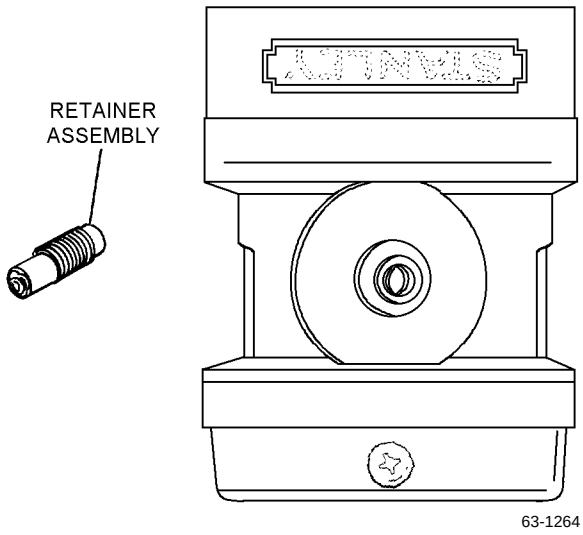
3. Disassemble high pressure assembly as follows:

a. Position and secure oxygen pressure reducer with high pressure assembly facing up.

NOTE

The retaining ring, filter, poppet guide, and spring usually withdraw from the reducer assembly housing still connected to the retainer unit.

b. Using torque adapter, remove retainer from reducer body, by rotating counterclockwise.



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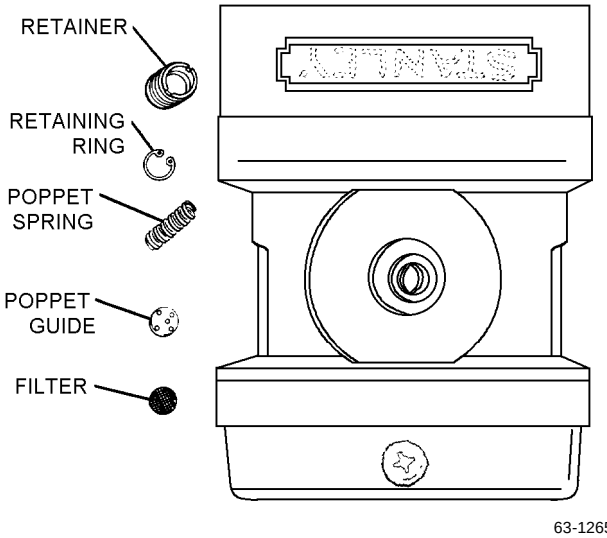
Step 3b - Para 10-49

c. Remove retaining ring, using retaining ring pliers (S0100) or equivalent.

d. Remove filter, poppet guide, and poppet spring from retainer.



63-1265

Step 3d - Para 10-49

NOTE

In some instances the seat will not come out with the stop; instead it will stay pressed in the reducer sealing groove. If this condition occurs, perform steps f, g, and h in order to facilitate removal without damaging the reducer body.

e. Invert reducer body and remove poppet, backup stop ring, and seat.

f. (If seat cannot be removed ONLY) Insert seat removal tool into body.

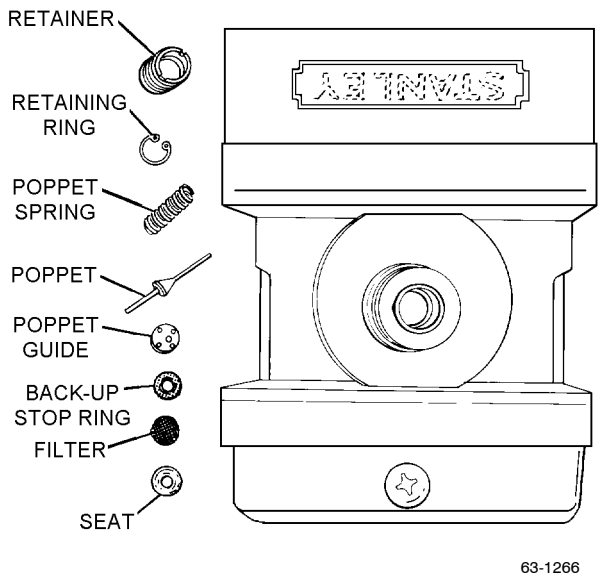
CAUTION

Do not cut into reducer body.

g. (If seat cannot be removed ONLY) Rotate seat removal tool until seat is loosened from reducer sealing groove.

h. (If seat cannot be removed ONLY) Visually inspect seating area of reducer body for removal of seat. Remove any foreign matter.

i. Replace worn or defective parts as necessary.



Step 3i - Para 10-49

10-50. CLEANING.

10-51. To clean the disassembled oxygen and non-oxygen components of the kit (except for cushions and fabric components) refer to NAVAIR 13-1-6.4-1.

10-52. CLEANING CUSHIONS AND FABRIC COMPONENTS. Clean seat and thigh support cushions and all fabric components as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Cleaning Compound	MIL-C-25769
As Required	Detergent, General Purpose	MIL-D-16791
As Required	Lint-free Cloth	MIL-C-85043 NIIN 00-044-9281

NOTE

If using cleaning compound (MIL-C-25769), combine one part compound to three parts water. If using general purpose detergent, follow directions on container.

1. Prepare detergent or cleaning compound (MIL-C-25769) solutions.

2. Apply solution to soiled area with spray or sponge.

3. Allow solution to remain on surface for few minutes, then scrub with soft brush or cloth.

4. Rinse surface thoroughly with water; wipe with cloth or sponge.

NOTE

Repeat steps 1 through 4 until material is clean.

5. Repeat step 4 until material is free from all solution.

6. Allow material to dry thoroughly.

10-53. INSPECTION.

10-54. Inspect the disassembled parts for damage, distortion, and corrosion in accordance with table 10-9. Survival items shall be inspected with NAVAIR 13-1-6.5.

10-55. INSPECTION OF FORWARD GUIDE BRACKETS. Inspect the Forward Guide Brackets on the RSSK-8 Series kits as follows:

Support Equipment Required

Quantity	Description	Reference Number
1	Guide Bracket Gage	—

NOTE

If guide bracket throat openings are not within tolerance specified, guide brackets must be replaced. Reshaping or interchanging guide brackets between manufacturers is not permitted.

1. Fabricate guide bracket gauge in accordance with paragraph 10-79.

2. Pass end of guide bracket gauge marked 0.375 through throat portion of RSSK's forward guide bracket. If gauge passes through throat portion, guide bracket has been enlarged and shall be replaced.

3. Repeat step 2 for opposite guide bracket.

4. Pass end of guide bracket gauge marked 0.320 through throat portion of the RSSK's forward guide bracket. If gauge does not pass throat, bracket has been compressed and shall be replaced.

5. Repeat step 4 for opposite guide bracket.

6. Upon receipt of new brackets, check throat openings in accordance with steps 2, 3, 4, and 5.

10-56. REPAIR AND REPLACEMENT.

10-57. REPAIR. Repair of individual components within any assembly is authorized only in accordance with procedures outlined in this manual. Make necessary entries on appropriate form in accordance with OPNAVINST 4790.2 Series.

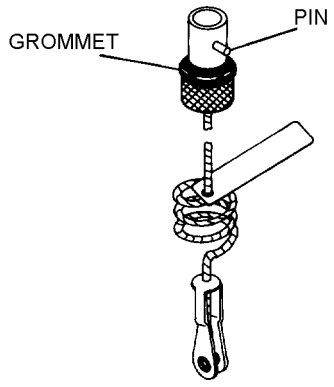
10-58. Repair of Cushion Assembly. Repair of the cushion assembly is limited to sewing of loose or open seams, broken stitches, and small rips and tears.

10-59. Repair of Emergency Oxygen Lanyard Coupling. To repair an emergency oxygen lanyard coupling assembly which contains a loose, broken, or missing spring proceed as follows:

Materials Required

Quantity	Description	Reference Number
1	Grommet	KS 88600-8 (CAGE 09344)

1. Slide grommet over pin and position as shown.



Step 1 - Para 10-59

Table 10-9. Inspection

Component	Task
Survival Kit (Figures 10-19, 10-20, 10-24 and 10-25)	
Cushion Assembly (2 and 3, figure 10-19) (2 and 3, figure 10-24)	Check cover assembly for fabric damage and loose, frayed, or broken stitching.
	Check slide fastener for security of attachment and trouble-free operation.
	Check for presence and security of snaps on lower surface.
	Check that rubber material of cushion filler assembly is securely bonded to rigid former.
	Check date installed on cushion foam and replace as required.
Carrying Handle (RSSK-8E ONLY) (50, figure 10-25)	Check webbing for damage, wear, and security of attachment.
Release Handle Assembly (11, figure 10-19) (15, figure 10-24)	Check hand grip for cuts and breaks.
Release Assemblies	Check for obvious wear and damage; ensure that releases adopt and maintain open and closed positions during operation.
Parachute Retention Straps (19, figure 10-19) (21, figure 10-24)	Check buckle and parachute quick-disconnect for corrosion and security of attachment to webbing.
	Check quick-disconnect spring for cracks, loss of tension, deformation, and security of attachment.
	Check webbing for damage and loose, frayed, or broken stitching.
Dropline Assembly	Examine boots for fabric damage and loose, broken or frayed stitching.
	Check dropline for material damage and loose, frayed or broken stitching.
Liferaft Cover	Examine for fabric damage and loose, broken or frayed stitching.
Equipment Container	Check slide fastener for security of attachment and trouble-free operation.
	Inspect container material for damage and for loose, broken or frayed stitching.
Survival Items	Inspect in accordance with NAVAIR 13-1-6.5.
Lower Container Assembly (Figures 10-22 and 10-28)	
Left and Right Forward Guide Brackets (18 and 27, figure 10-22) (18 and 27, figure 10-28)	Check forward guide brackets for deformation.
	Check for security of attachment.

Table 10-9. Inspection (Cont)

Component	Task
Lower Container Assembly (Figures 10-22 and 10-28) (Cont)	
Cable Assemblies (39 and 40, figure 10-22) (39 and 40, figure 10-28)	Check for broken, bent or crushed conduit.
	Inspect cables for damage or broken strands.
	Check for security of terminal balls on cables and couplings on conduit in accordance with paragraph 10-40.
	Check coupling nuts for rounded corners of flats and for thread damage.
	Operate cables within respective conduits and ensure that cables move freely without binding.
Grommet (38, figure 10-22) (38, figure 10-28)	Inspect for cracks, breaks and deterioration.
Lower Container Assembly (73, figure 10-22) (73, figure 10-28)	Check for cracks and damage to fiberglass and attached extruded metal lip. Ensure that extruded metal lip is securely bonded to fiberglass and there is no separation between parts.
(AFTER ACC-377) Handle Protector Bracket (1, figure 10-22) (1, figure 10-28)	Check for cracks and damage to plastic.
	Check for security of attachment.
Upper Container Assembly (Figures 10-19, 10-20, 10-24 and 10-25)	
Clamps (2, figure 10-20) (2, figure 10-25)	Check for damaged rubber.
Tube Assembly (1, figure 10-20) (1, figure 10-25)	Inspect tube for dents, cracks and gouges.
Relief Valve, Check Valves, Unions, and Cross	Inspect threads for damage.
Left and Right Harness Assemblies	Check bracket assembly for bends, damage, and cracks in metal adjacent to welding material and security of attachment.
	Check webbing for wear and damage and for frayed, broken, or loose stitching.
	Inspect side release lugs for damage and security of attachment. Inspect aftmost hole of release lugs for elongation.
	(After ACC 377 or RSSK-8E) Inspect adjuster for proper operation. Adjuster must release webbing with a maximum pull-force of 8 lb on yellow tab. Harness webbing shall move freely through adjuster in either direction.
	(RSSK-8E ONLY) Check screw securing pin on integrated corner bracket for security.

Table 10-9. Inspection (Cont)

Component	Task
Upper Container Assembly (Figures 10-19, 10-20, 10-24 and 10-25) (Cont)	
Lid Latches (35, figure 10-20) (36, figure 10-25)	Inspect latches for distortion and damaged.
	Check for security of attachment.
Upper Container (90, figure 10-20) (96, figure 10-25)	Inspect for cracks and damage to fiberglass and attached extruded metal lip. Ensure that extruded metal lip is bonded to fiberglass and there is no separation between parts.
Oxygen Actuator Assembly (Figures 10-20 and 10-25)	
Manual Emergency Oxygen Release	(Before ACC 325 PART II) Inspect terminal assembly metal end fitting and molded rubber for damage.
	(After ACC 325 PART II) Inspect manual emergency oxygen release handle (green ring) for damage and security of attachment.
Adjuster (66, figure 10-20) (66, figure 10-25)	Check for damaged threads.
Actuating Cables (69 and 70, figure 10-20) (69 and 70, figure 10-25)	Inspect cables for fraying and broken strands.
	Check security of swaged balls and links.
	(RSSK-8E ONLY) Check cable tension, if necessary adjust in accordance with paragraph 10-71.
Lanyard Assembly (49 and 50, figure 10-20) (56 and 57, figure 10-25)	Check for security of pin in lock coupling.
	Inspect lanyard assembly for loose, broken or missing springs. Repair in accordance with paragraph 10-59.
	Inspect cables for broken strands and fraying.
	Check for security of balls, fork end fitting and link on respective cables.
	Check locking slots of coupling for wear and distortion.
Housing (71, figure 10-20) (71, figure 10-25)	Inspect for damage and corrosion.
Multi-Release Assembly (Figures 10-23 and 10-29)	
Cover (1, figure 10-23) (1, figure 10-29)	Check for distortion and for cracks in area of holes.
Lid Lock Cable Lever (10, figure 10-23) (10, figure 10-29)	Check for cracks and distortion at terminal ball area.
	Inspect pivot hole and slot for wear and damage.
Pins (4 and 7, figure 10-23) (4 and 7, figure 10-29)	Check for distortion and wear.
Housing (18, figure 10-23) (18, figure 10-29)	Inspect locking projection, serving multi-release handle engagement, for damage and wear.
	Check holes and screw threads for damage.

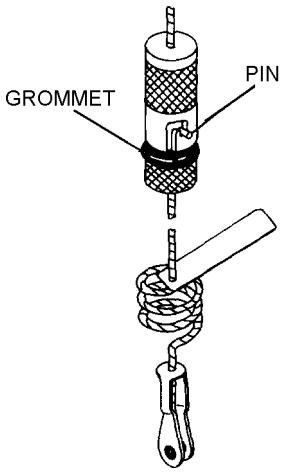
Table 10-9. Inspection (Cont)

Component	Task
Lock Assemblies (Figures 10-22 and 10-28)	
Cover (48, 55 and 65, figure 10-22) (48, 55 and 65, figure 10-28)	Check for distortion and cracks in area of holes.
All locknuts and nipples	Inspect for cracks and thread damage.
	Check for rounded corners of hexagon flats.
Housing (52, 62 and 72, figure 10-22) (52, 62 and 72, figure 10-28)	Inspect holes and threads for damage.
	Check the area serving slide operation and the latch.
Reducer Assembly (Figure 10-27)	
Toggle Arm (18, figure 10-27)	Examine pin holes for wear and threads for damage.
	Check toggle arm resetting slot for galling.
Piston (26, figure 10-27)	Check for bent shaft, damage to seat flange and for hole wear.
Plunger (24, figure 10-27)	Check for bent or damaged shaft diameters and head.
Retainer (14, figure 10-27)	Inspect for damaged threads, galled screwdriver slot, cracks and breaks.
Fitting (7, figure 10-27)	Check for damaged threads and round corners of hexagon flats.
Filter (10, figure 10-27)	Inspect for damaged mesh and security of attachment within housing.
Reducer/Manifold and Tube Assembly (Figures 10-20, 10-21, 10-25, 10-26 and 10-27)	
Housing (28, figure 10-27)	Check for gouges and other obvious damage.
	Inspect ports and threads for damage.
	Check diaphragm seating area for nicks, distortion and breaks.
Plug Assembly (43, figure 10-20) (44, figure 10-25)	Inspect chain and plug for damage.
	Inspect that chain is securely riveted to plug.
Cap, Body and Nut	Check for damaged threads and rounded corners of hexagon flats.
Valve Fitting and Indicator Manifold	Check for cracks and breaks.
	Inspect ports and threads for damage.
Gage (8, figure 10-21) (8, figure 10-26)	Check for cracked or missing glass, bent or broken needle and stop, or jammed needle.

Table 10-9. Inspection (Cont)

Component	Task
Reducer/Manifold and Tube Assembly (Figures 10-20, 10-21, 10-25, 10-26 and 10-27) (Cont)	
Gage (8, figure 10-21) (8, figure 10-26)	Inspect for rounded corners of hexagon flats, security of gage cover and damaged threads.
	Check for presence and security of integral filter in threaded shaft.
Tube Assembly (17, figure 10-21) (15, figure 10-26)	Inspect tube ends for smooth sealing surfaces.
	Check tube for cracks, dents, nicks, gouges and scratches which penetrate metal.
Retaining Pin (2, figure 10-21) (2, figure 10-26)	Inspect for damage and wear.

2. Connect Coupling Assembly.



Step 2 - Para 10-59

10-60. REPLACEMENT. All individual components that fail to pass inspection shall be replaced except where repair procedure is indicated. Refer to source code listing (SM&R Code), in the Numerical Index of the Illustrated Parts Breakdown, to aid in determining replaceable components. All adjustable components or assemblies that failed to pass respective tests shall be adjusted to meet required specifications.

10-61. (East/West) Replacement of Lapbelt Adjuster. To replace missing or damaged lapbelt adjuster on the restraint harness, proceed as follows:

Materials Required

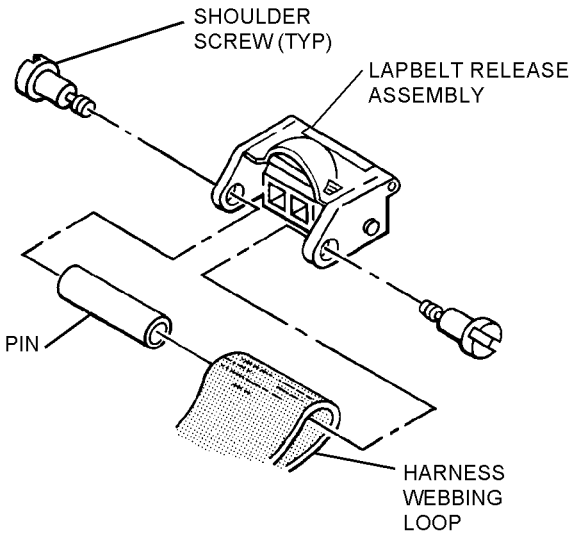
Quantity	Description	Reference Number
As Required	Adjuster, Lapbelt	184C100-1 (CAGE 30941)
As Required	Sealing, Locking, and Retaining Compound, Grade A	MIL-S-22473 NIIN 00-952-2205

NOTE

Replacement procedures can be used on both right and left side restraint harness assemblies.

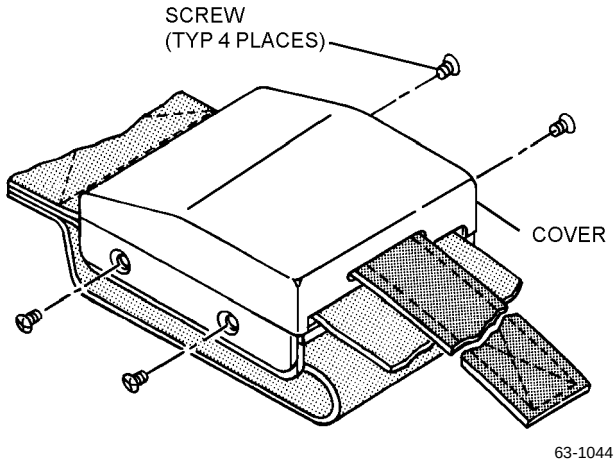
1. Remove existing lapbelt adjuster from the restraint harness as follows:

a. Remove lapbelt release assembly by removing two shoulder screws. Pull release assembly away from webbing, and slide pin out of harness webbing loop. Retain all parts.



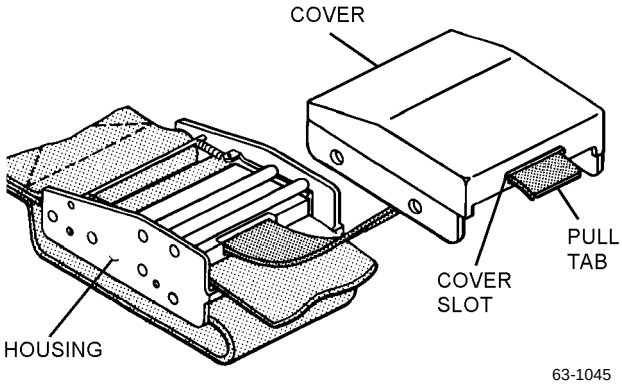
Step 1a - Para 10-61

b. Remove four screws (two on each side) from cover of lapbelt adjuster assembly.



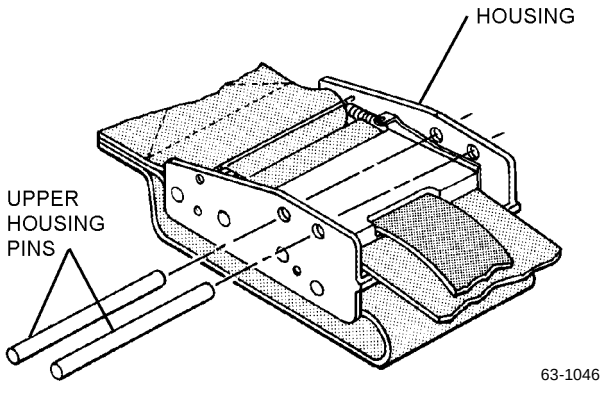
Step 1b - Para 10-61

c. Remove cover from lapbelt adjuster housing, and slide pull tab through cover slot.



Step 1c - Para 10-61

d. Slide upper housing pins out of housing.

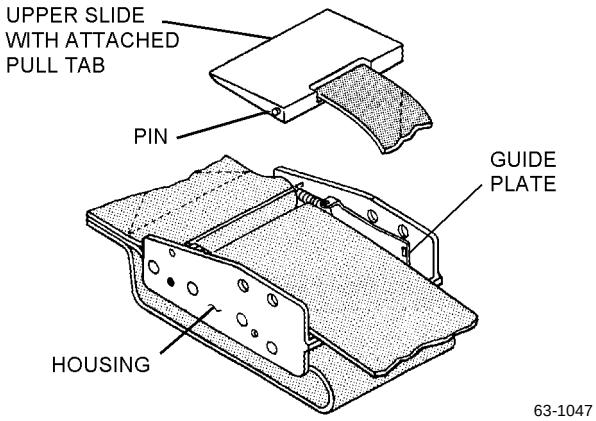


Step 1d - Para 10-61

NOTE

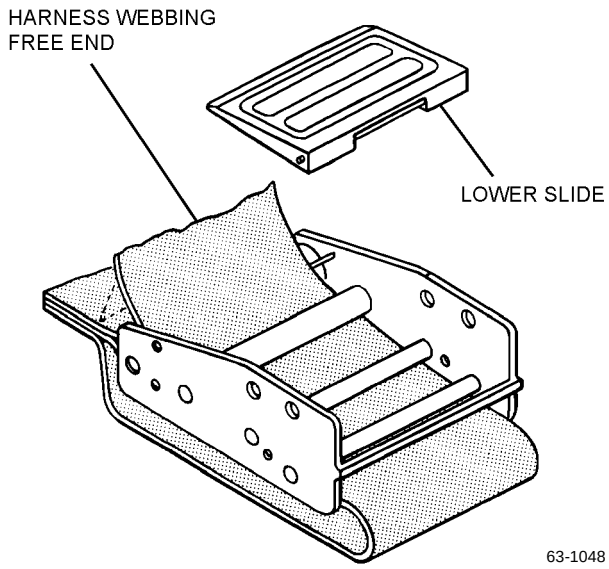
Slides are held to guide plates by pins. Pull slide up so guide plates are above edge of housing, and rotate slide out of guide plates.

e. Remove upper slide with attached pull tab.



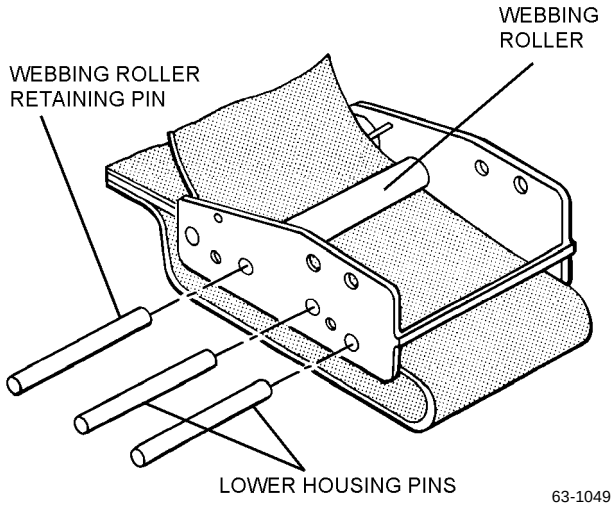
Step 1e - Para 10-61

f. Lift free end of harness webbing, and remove lower slide.



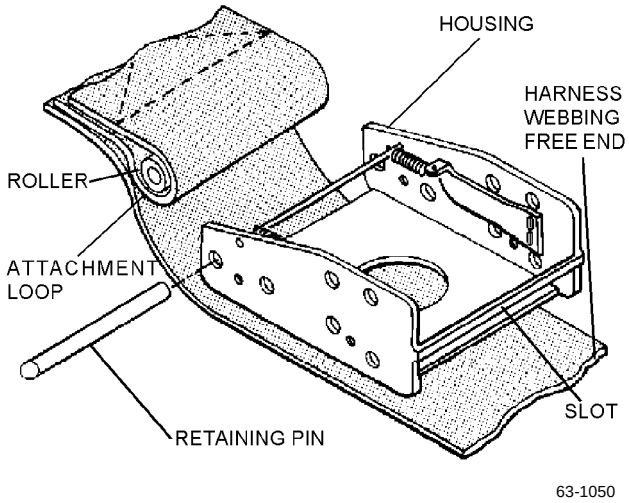
Step 1f - Para 10-61

g. Position guide plates up and out of way. Remove two lower housing pins and webbing roller retaining pin. Webbing roller will fall away.



Step 1g - Para 10-61

h. Pull free end of harness webbing through slot in housing. Remove pin retaining harness webbing attachment loop roller. Housing will fall away.



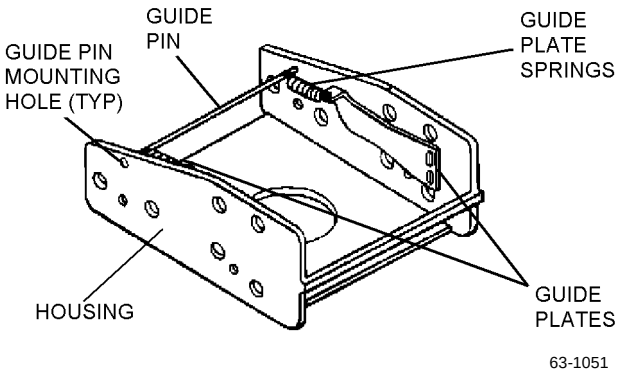
Step 1h - Para 10-61

2. Install new lapbelt adjuster as follows:

NOTE

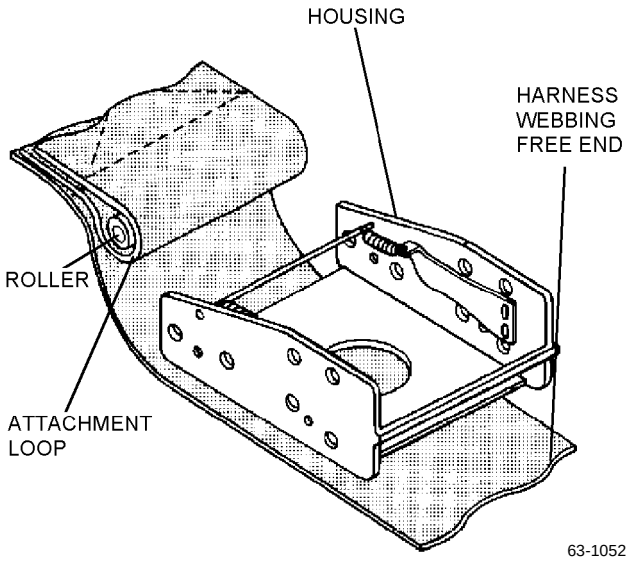
The six pins (two retaining and four housing) are interchangeable. The two rollers are interchangeable.

a. If required, slide guide plate springs onto guide pin; ensure guide plates are positioned correctly. Install assembly into adjuster housing guide pin mounting holes.



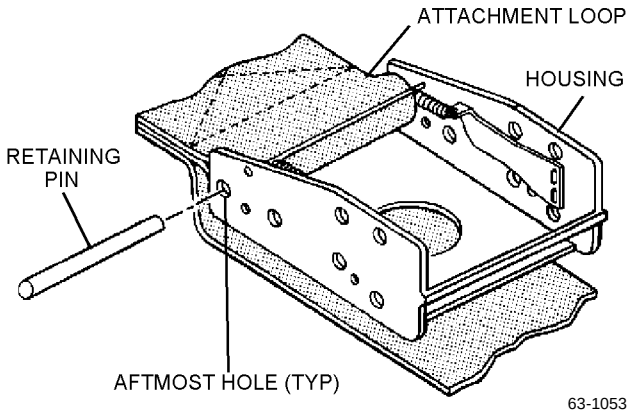
Step 2a - Para 10-61

b. Insert roller into attachment loop of harness webbing. Place adjuster housing on top of free end of harness webbing so that aft end of housing faces attachment loop.



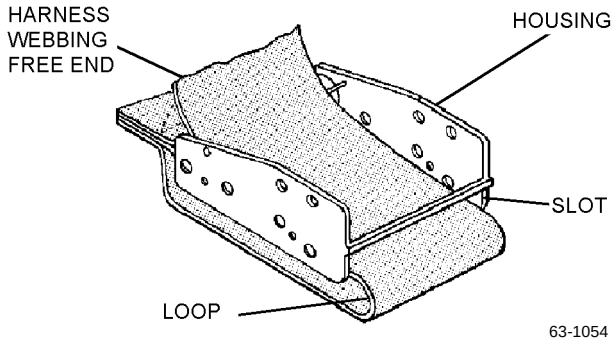
Step 2b - Para 10-61

c. Position housing onto attachment loop and roller. Align hole through roller with aftmost holes in housing, and install retaining pin.



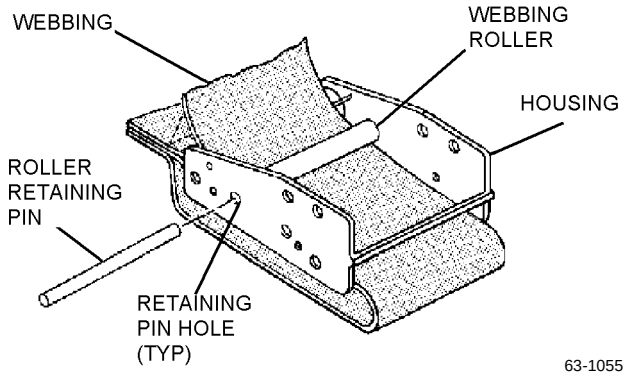
Step 2c - Para 10-61

d. Fold free end of webbing back towards housing. Insert end through slot in housing to form loop in webbing forward of adjuster. Guide plates may be positioned up and back to avoid any interference.



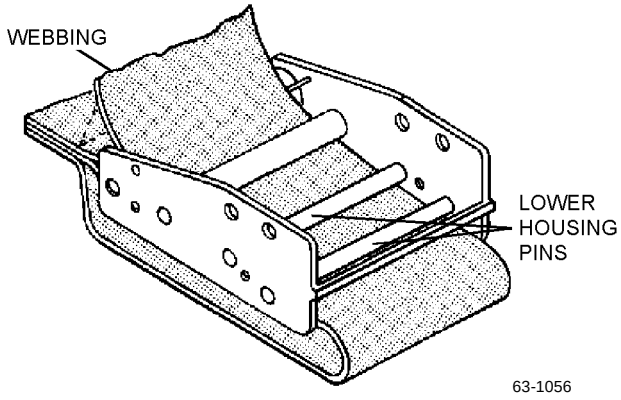
Step 2d - Para 10-61

e. Install webbing roller into housing on top of webbing. Position roller to align with proper holes in housing, and insert roller retaining pin.



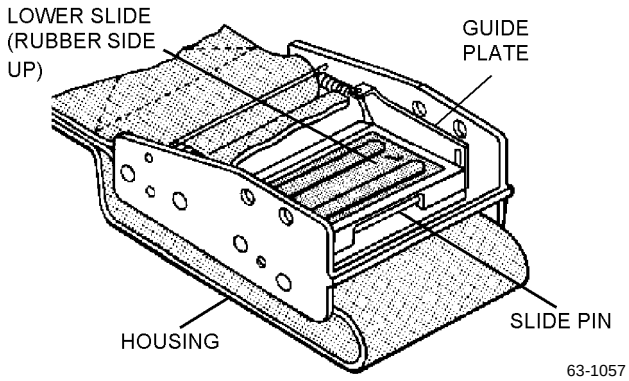
Step 2e - Para 10-61

f. Insert lower housing pins; ensure pins are resting on top of webbing.



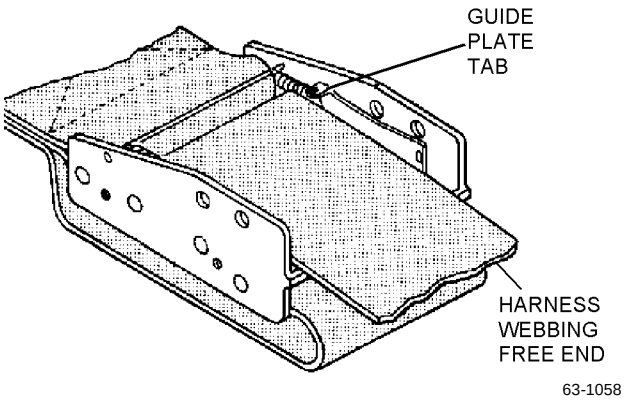
Step 2f - Para 10-61

g. Position guide plates into housing on top of lower housing pins, and install lower slide rubber side up. Ensure slide pin is correctly positioned into lower slots of guide plates.



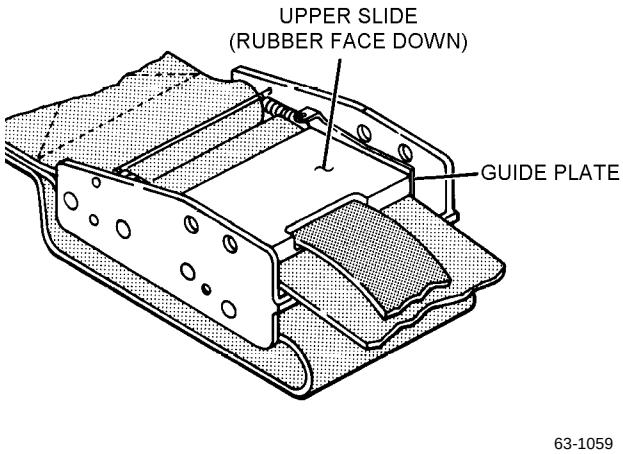
Step 2g - Para 10-61

h. Position harness webbing free end under tabs of guide plates, and lay webbing down over lower slide.



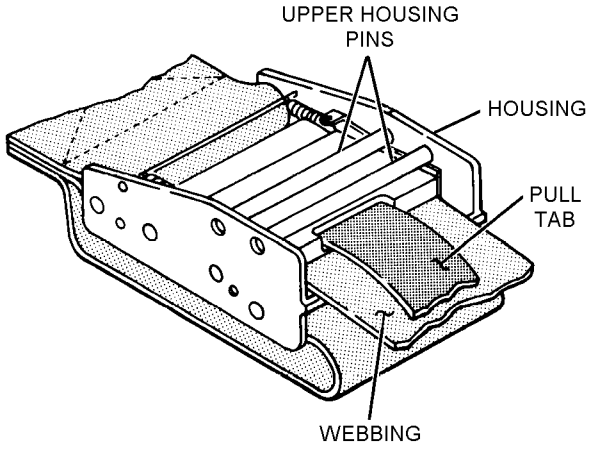
Step 2h - Para 10-61

i. Install upper slide rubber face down, ensuring lower slide does not come out of place. Ensure slide pins sit securely in slots of guide plates.



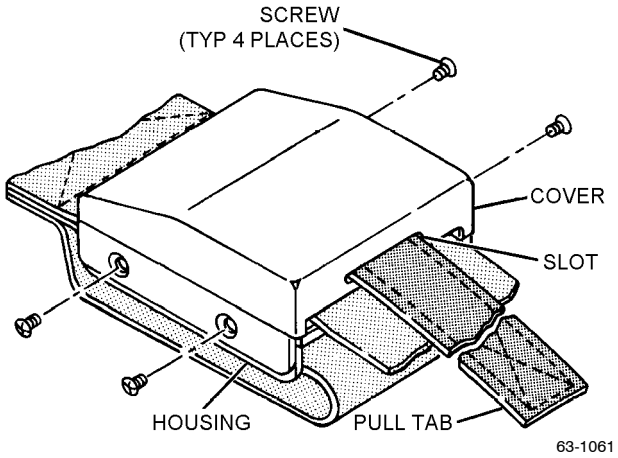
Step 2i - Para 10-61

j. Install upper housing pins. Ensure slides operate correctly; pull on pull tab to check simultaneous movement of slides. Webbing shall slide with ease through adjuster in either direction.



Step 2j - Para 10-61

k. Insert pull tab from inside out through slot in cover. Place cover on housing, and align four screw holes. Apply sealing compound to threads of four screws, and secure cover to housing.



Step 2k - Para 10-61

3. Apply sealing compound to threads of two shoulder screws, and install lapbelt release assembly removed in step 1a.

4. Make necessary entries on appropriate form in accordance with OPNAVINST 4790.2 Series.

10-62. Deleted.

Pages 10-63 thru 10-66 - Deleted.

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10-63. ASSEMBLY.

NOTE

Tamper dots on the oxygen hose assembly shall be applied to the fittings in a manner which provides easy identification for inspection purposes when the seat kit is installed in the seat.

10-64. Assemble the RSSK-8 in the reverse order of disassembly using index numbers of figures 10-19 through 10-29. Note and comply with applicable maintenance instructions in the IPB. When applying sealing compound to threaded parts, first clean any contaminants from the threads using clean cloth moistened with clean water. Apply sealing compound to 50% of the threads of applicable parts. Refer to Appendix B and ensure all nuts and fittings are properly torqued. The torque value for the inlet tubing connector on the oxygen hose assembly shall be 80 to 100 in-lb. The torque value for the outlet tubing connector on the oxygen hose assembly shall be 100 to 125 in-lb. After all nuts and fittings are properly torqued, apply tamper dots to all oxygen fittings shown in figures 10-19 through 10-29. Use lacquer MIL-L-7178, Fed. Std. 595. Use any contrasting color when applying tamper dots to oxygen fittings.

WARNING

Before use, inspect leak detection compound. Compound which is not clear and free from suspended material/sediment is considered contaminated and shall be disposed of. Compound exhibiting peculiar odors, such as acetone or alcohol, is considered contaminated and shall be disposed of.

10-65. ASSEMBLY OF PRESSURE REDUCER ASSEMBLY. (RSSK-8E ONLY). The following procedures assemble the reducer assembly in three major operations: assembly of the high pressure assembly; assembly of low pressure assembly; assembly and preadjustment of the adjustment assembly. It is imperative that the following assembly sequence be followed if the entire reducer assembly has been disassembled. See figure 10-11, and proceed as follows:

Materials Required

Quantity	Description	Reference Number
1	Krytox 240AZ	MIL-G-27617 NIIN 01-007-4384
As Required	Tape, Antiseize	MIL-T-27730
As Required	Thread Locking Compound	VC-3 (CAGE 04866)
As Required	Plastic Bag	MIL-B-117
1	Spring Pin	MS171435
2	O-ring	MS28778-2
1	O-ring	MS28775-117

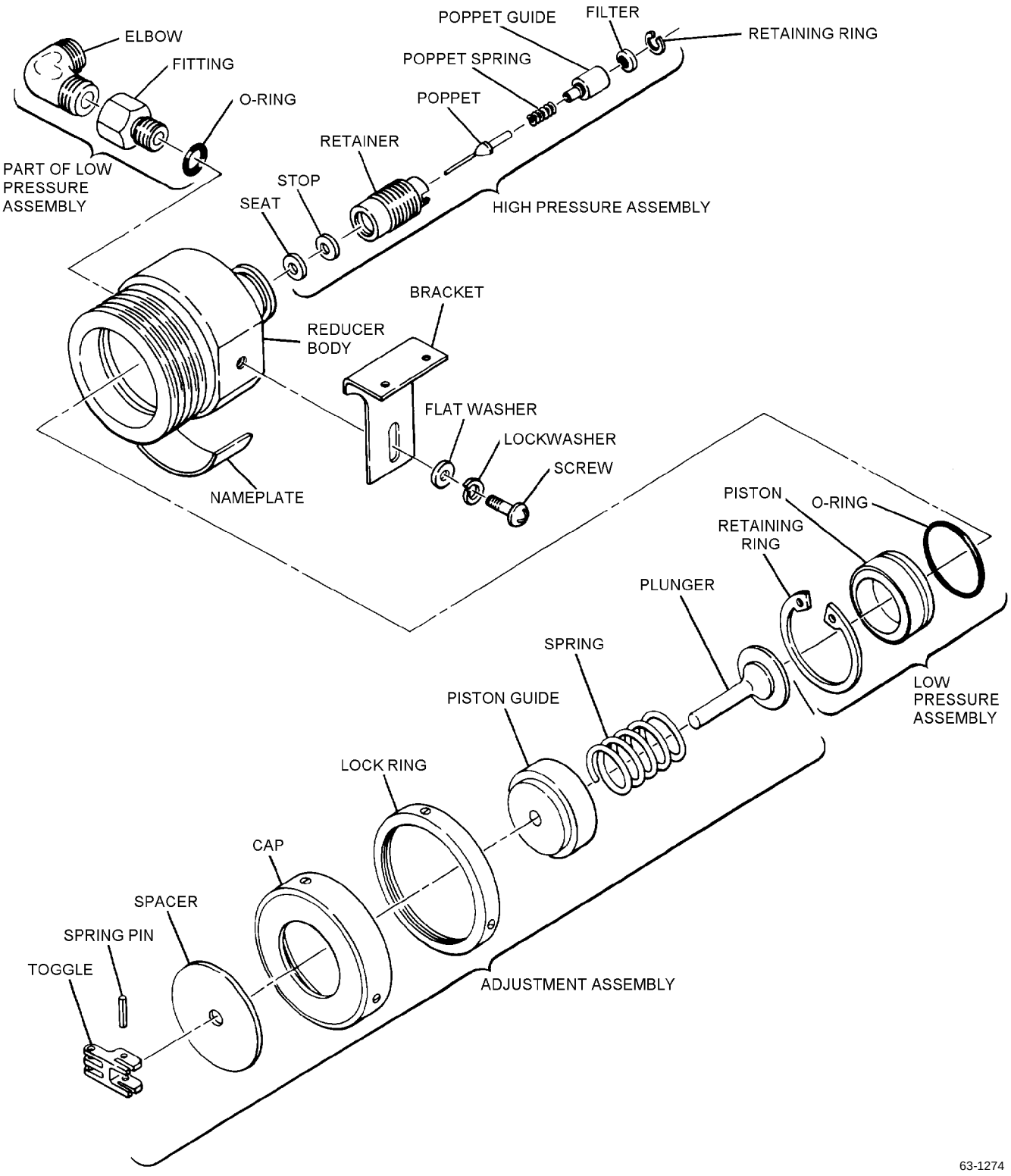


Figure 10-11. Reducer Assembly (RSSK-8E)

Support Equipment Required

Quantity	Description	Reference Number
1	Vise	—
1	Pressure Reducer Tool Set (figure 10-12)	T216D900-1 (CAGE 30941) NIIN 01-100-8928
1	Retaining Ring Pliers	S0100 (CAGE 79136)
1	Retaining Ring Pliers	SL0100 (CAGE 79136)
1	Torque Wrench 0-150 lb-in	TE-6FUA (CAGE 55729) or Equivalent
1	Toggle Reset Tool	Fabricate IAW paragraph 10-74

WARNING

Do not use oil or any material containing oil in conjunction with oxygen equipment. Oil, even in a minute quantity, coming in contact with oxygen can cause explosion or fire. Dust, lint, and fine metal particles are also dangerous.

NOTE

Maintenance personnel are cautioned to read and thoroughly understand each step prior to attempting any maintenance action.

Discard and replace all packings, seals, cotter pins, and teflon sealing tape removed during disassembly of emergency oxygen system.

All complete assemblies not immediately being returned to service shall be sealed in plastic bags with all external fittings properly capped.

1. Assemble high pressure assembly as follows:

NOTE

If the entire reducer assembly has not been disassembled it is necessary to remove the adjustment assembly and low pressure assembly to correctly perform the following assembly procedures.

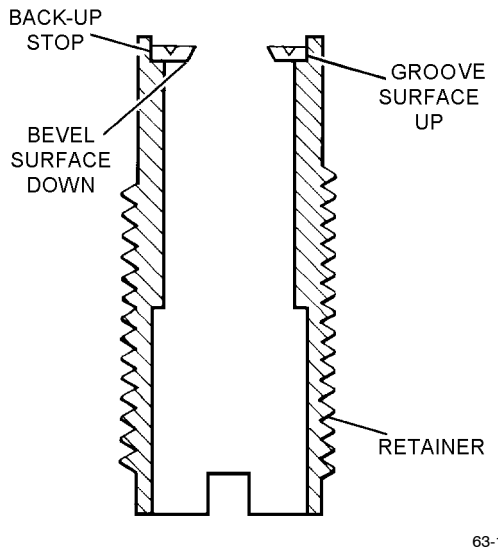
a. Ensure that the adjustment assembly has been removed in accordance with paragraph 10-49.

b. Ensure that the low pressure assembly has been removed in accordance with paragraph 10-49.

c. Ensure that all oxygen components to be assembled have been properly cleaned in accordance with NAVAIR 13-1-6.4-1.

d. Position retainer with threaded side down.

e. Install backup stop in upper groove of retainer, positioning bevel surface down and groove surface up.



Step 1e - Para 10-65

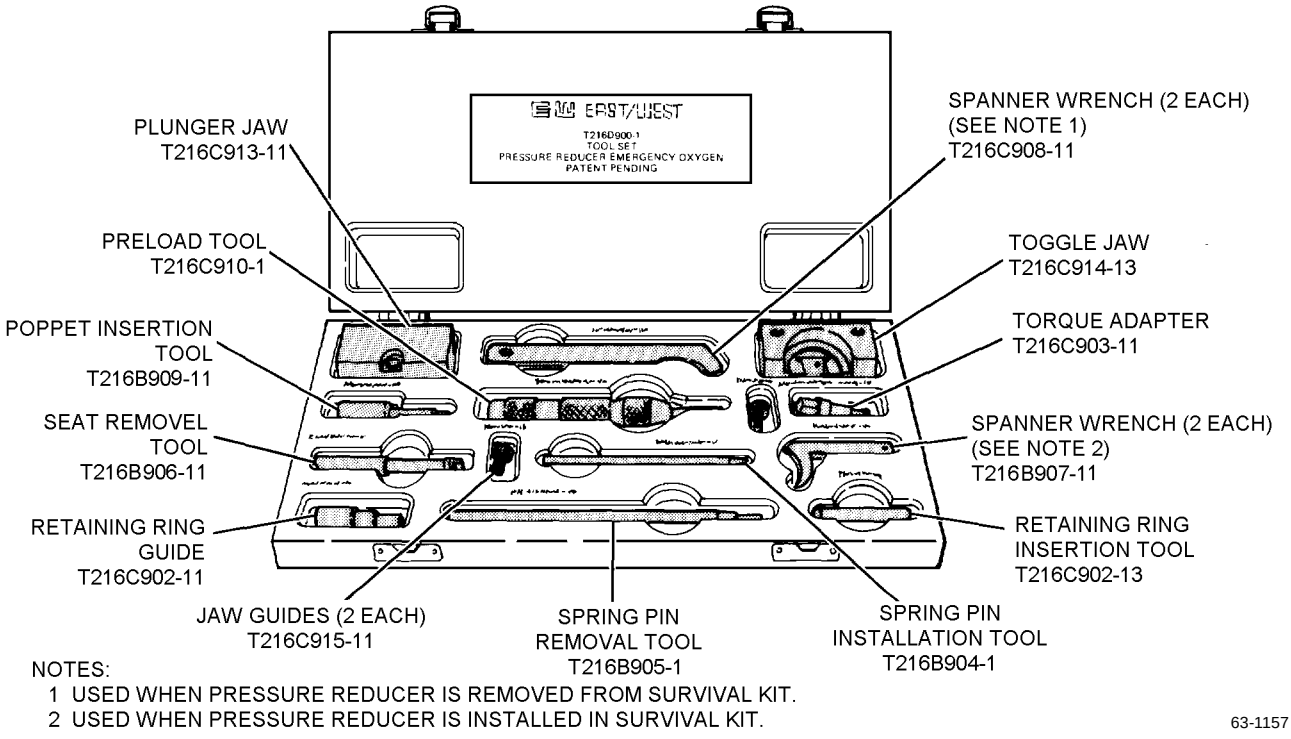
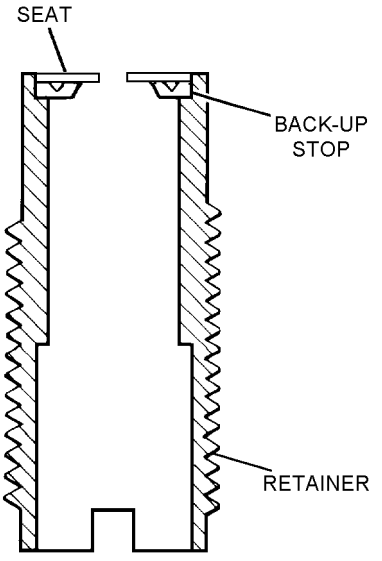


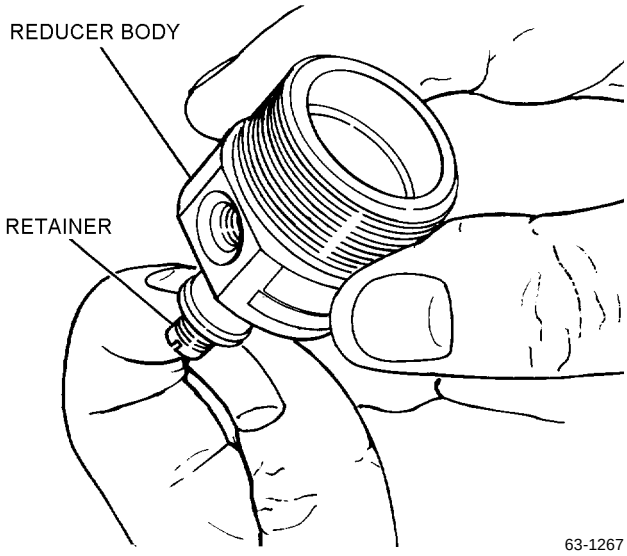
Figure 10-12. Emergency Oxygen Pressure Reducer Tool Set

f. Place seat on top of backup stop ensuring proper alignment within retainer groove. Push firmly on seat with finger so that seat is retained in place.



Step 1f - Para 10-65

g. While holding retainer in an upright position with backup stop and seat positioned on top, lower reducer body onto retainer and slowly screw retainer into high pressure inlet port of reducer body.

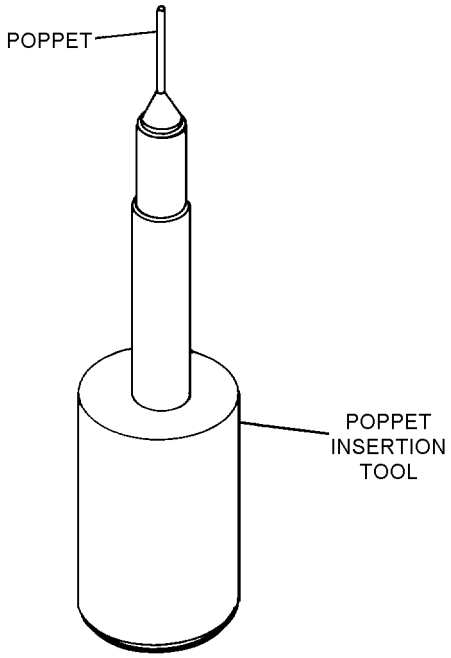


Step 1g - Para 10-65

h. Using torque adapter mounted on a 3/8-inch nut driver, continue screwing retainer into high pressure port until snug. Visually inspect for proper alignment of backup stop and seat into reducer body.

i. Torque retainer into reducer body to 32 to 35 in-lb, using retainer torque adapter and torque wrench.

j. Using poppet insertion tool, place poppet into tool so that cone-shaped part of poppet faces away from heavy end of tool.



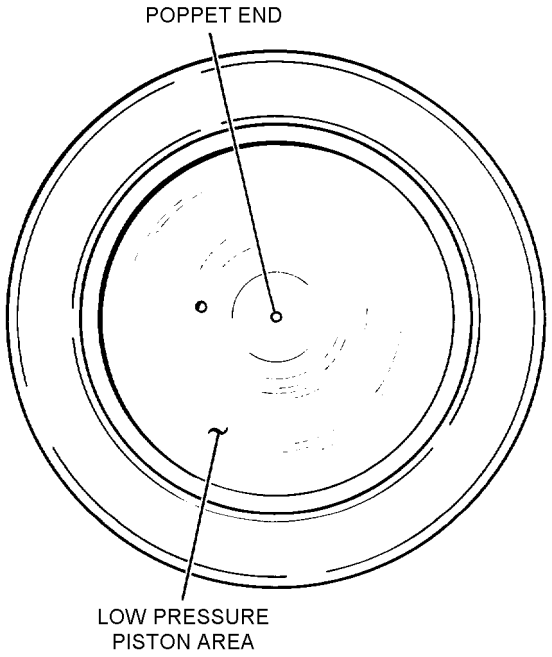
63-1175

Step 1j - Para 10-65

CAUTION

Be careful when inserting poppet that no pressure is applied which could bend poppet shaft. Be certain end of poppet extends into low pressure piston area.

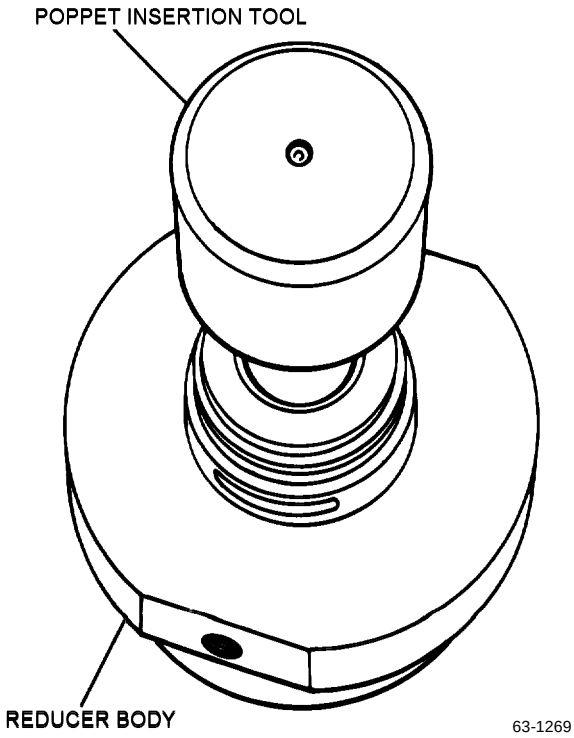
k. Hold reducer body/housing with high pressure retainer side down. Slowly lower reducer housing onto poppet. Carefully rock and turn poppet insertion tool until poppet end is seen to extend into low pressure piston area.



63-1268

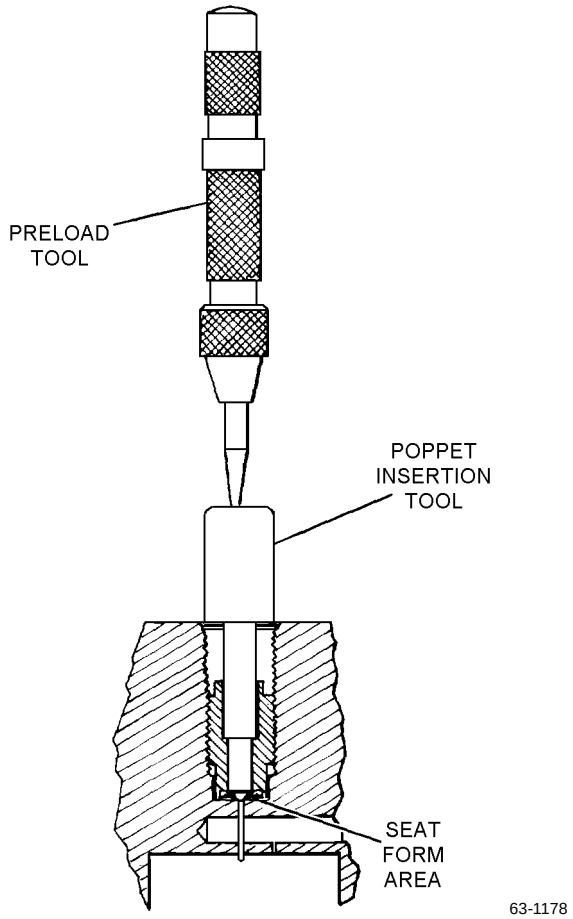
Step 1k - Para 10-65

l. Leaving poppet insertion tool inserted, turn entire assembly over so that high pressure or retainer assembly and poppet insertion tool are now facing up.



Step 1l - Para 10-65

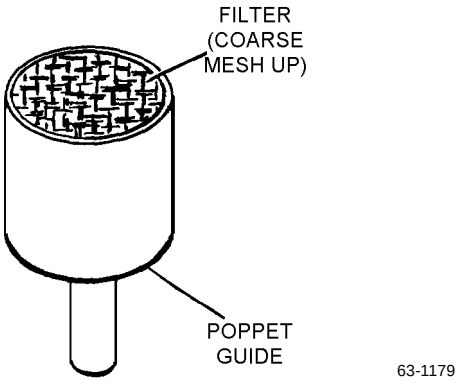
m. Place preload tool into dimple on top of poppet insertion tool. Press down once on preload tool until it unloads with a snap. This forms seat into its correct angle.



Step 1m - Para 10-65

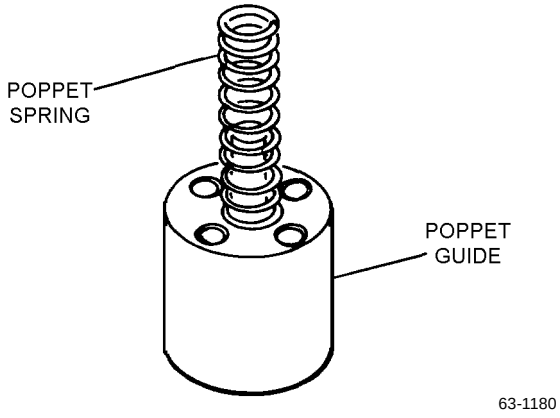
n. Remove poppet insertion tool so that poppet remains repositioned inside reducer body against seat.

o. Press filter with coarse mesh up into wide end of poppet guide.



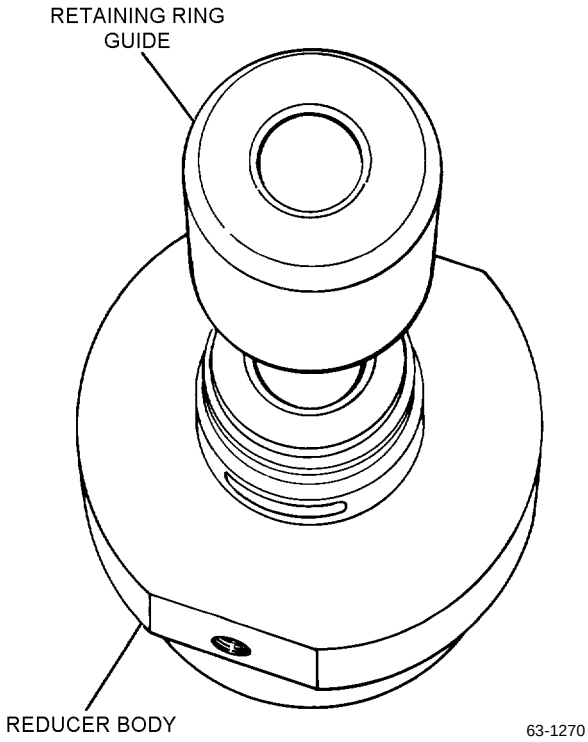
Step 1o - Para 10-65

p. Secure poppet spring to poppet guide by pressing spring onto shaft end of guide.



Step 1p - Para 10-65

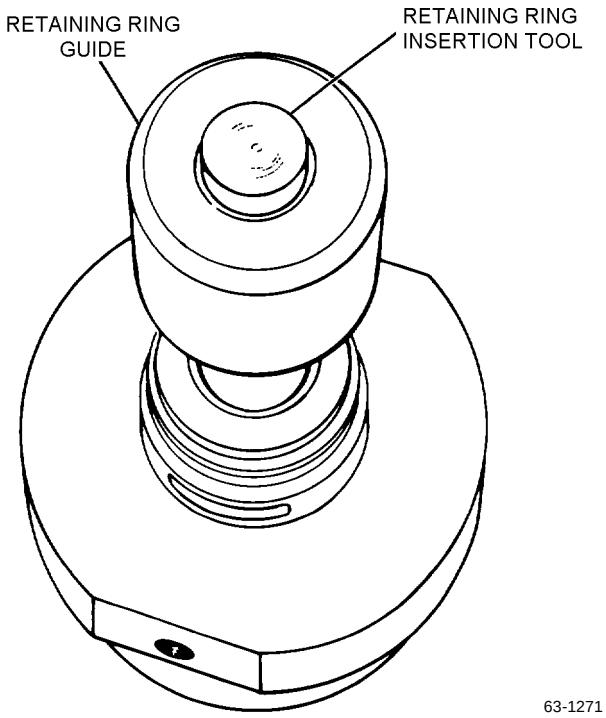
q. Position retaining ring guide into retainer so that the tool engages tangs of retainer.



Step 1q - Para 10-65

r. Insert poppet guide and spring with spring end down into opening in retaining ring guide.

s. Using retaining ring insertion tool, ensure that poppet guide and spring are properly positioned inside retainer.

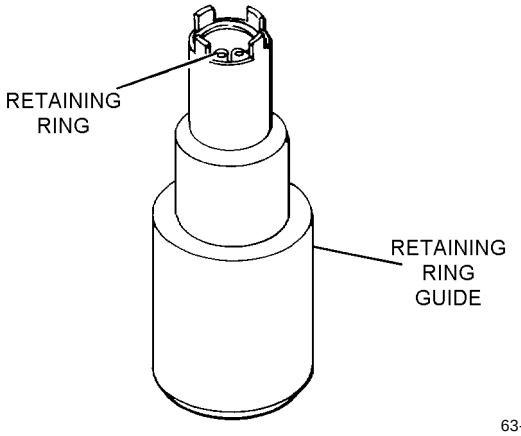


Step 1s - Para 10-65

t. Remove retaining ring insertion tool and retaining ring guide from reducer housing.

u. Visually check that filter end of poppet guide is slightly higher than ends of retainer.

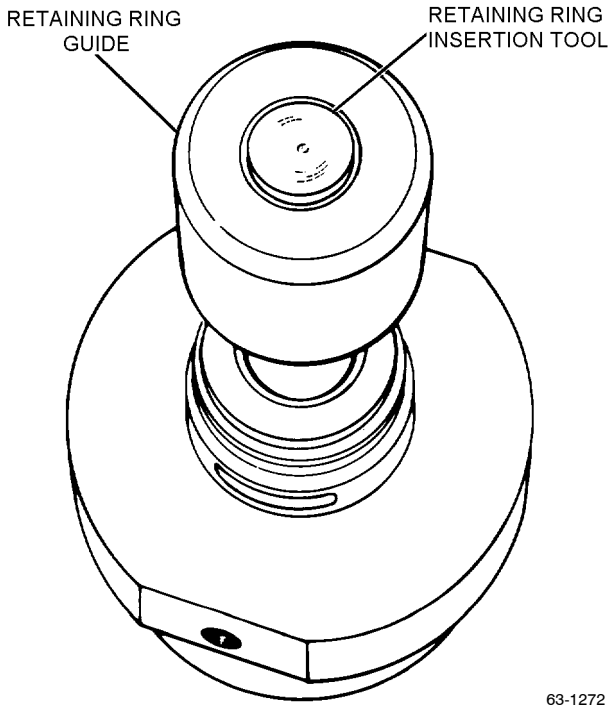
v. Using retaining ring pliers, install retaining ring inside tangs of retaining ring guide.



Step 1v - Para 10-65

w. Insert retaining ring guide into tangs of retainer. Insert retaining ring insertion tool into retaining ring guide.

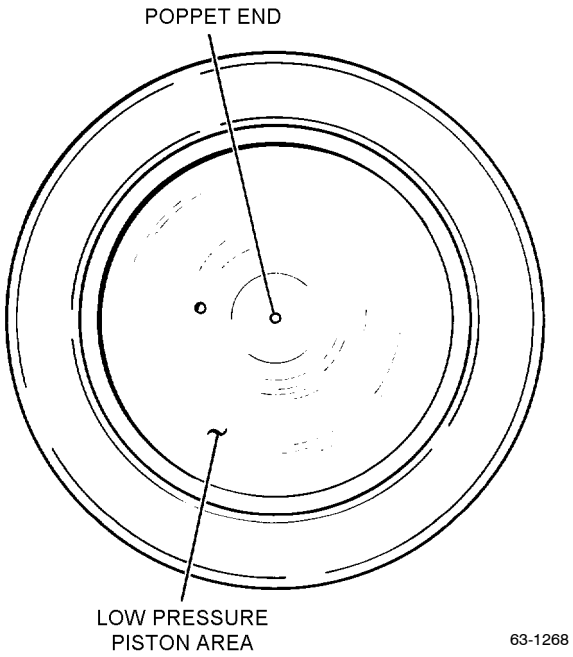
x. Compress poppet spring and seat retaining ring by pressing down on retaining ring insertion tool until flush with top of retaining ring guide.



Step 1x - Para 10-65

y. Remove retaining ring guide and insertion tool. Ensure retaining ring is properly seated in groove.

z. Verify that tip of poppet extends into lower pressure piston area.



Step 1z - Para 10-65

2. Assemble low pressure assembly as follows:

a. Ensure that high pressure assembly is properly assembled in accordance with step 1.

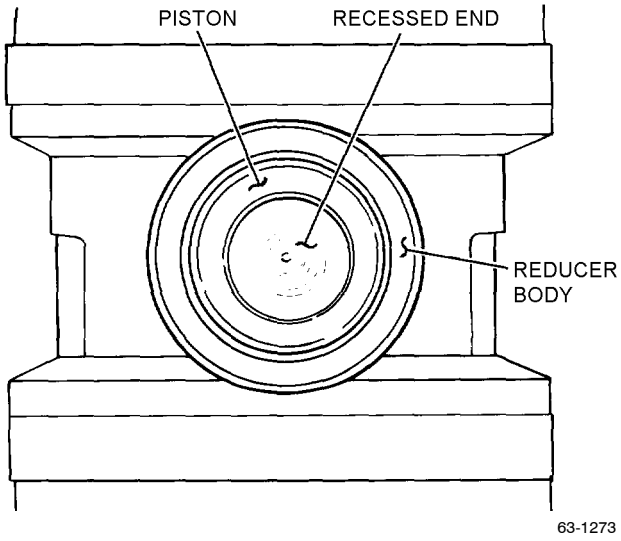
b. Ensure that all oxygen components to be assembled have been properly cleaned in accordance with NAVAIR 13-1-6.4-1.

c. Position oxygen pressure reducer assembly with adjustment side or low pressure side up and secure.

d. Lubricate new O-ring and mating surfaces with Krytox 240AZ. Install O-ring on piston.

e. Lubricate bore of reducer body with Krytox 240AZ.

f. Install piston, recessed end out, in bore of reducer body.



Step 2f - Para 10-65

g. Install retaining ring, using retaining ring pliers (SL0100).

h. Lubricate new O-ring and mating surfaces with Krytox 240AZ. Install O-ring on fitting and install fitting into reducer body.

i. Apply antiseize tape to threads of elbow and install.

3. Assemble and preadjust adjustment assembly. To assemble and preadjust adjustment assembly, proceed as follows:

a. Ensure that high pressure and low pressure assemblies have been properly assembled in accordance with steps 1 and 2.

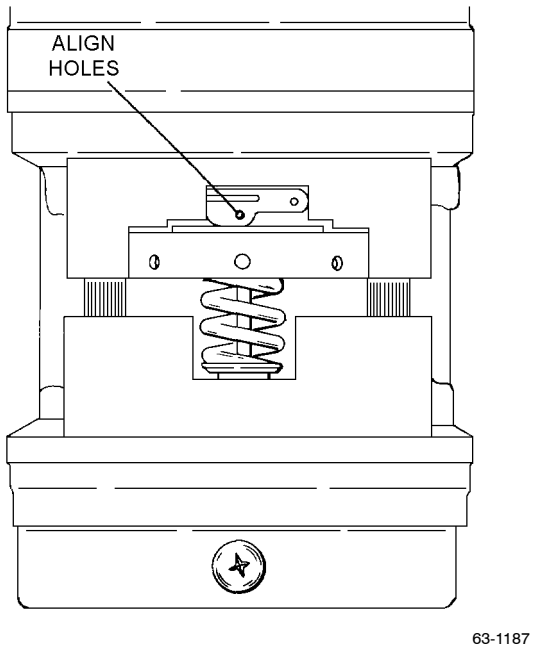
b. Ensure that all oxygen components to be assembled have been properly cleaned in accordance with NAVAIR 13-1-6.4-1.

c. Using appropriate Allen key, screw jaw guides into two threaded holes in toggle jaw.

d. Place toggle and plunger jaws in vise.

e. Assemble adjustment assembly components in proper sequence (figure 10-11). Position components in toggle and plunger jaws.

f. Apply vise pressure to compress spring. Align hole in toggle with hole in plunger end.



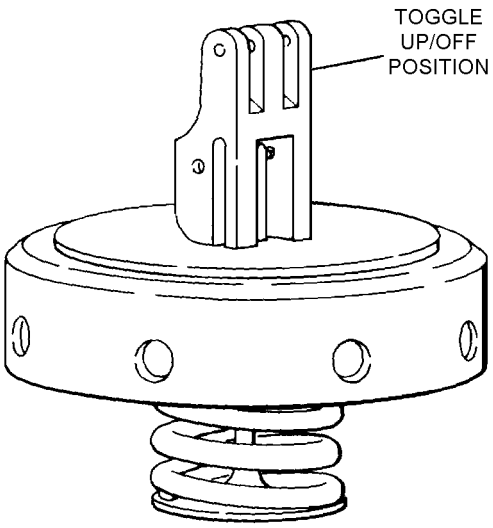
Step 3f - Para 10-65

g. With hole in toggle and hole in plunger aligned, insert new spring pin using spring pin installation tool. Insert spring pin into toggle hole as far as tool will permit. Remove tool and gently drive remainder of spring pin into toggle, using drift pin.

h. Slowly open vise jaws and ensure that assembly is properly secured.

i. Remove adjustment assembly from toggle and plunger jaws.

j. Using toggle reset tool, rotate toggle to upright (OFF) position.



Step 3j - Para 10-65

k. Position reducer assembly with cap adjustment side up.

l. Install lock ring onto reducer body.

NOTE

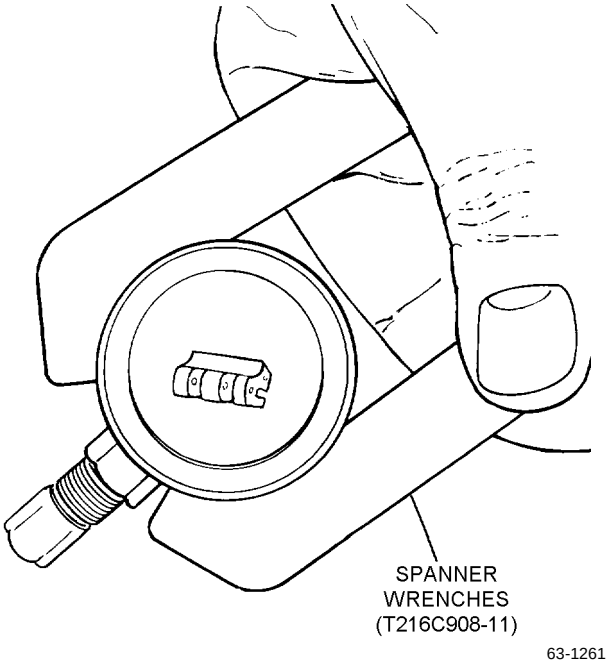
Ensure lock ring does not contact adjustment assembly during installation.

m. Install adjustment assembly onto reducer body by engaging screw threads and rotating clockwise to its lowest position.

n. Back off adjusting cap two complete turns for preadjustment.

o. Turn lock ring counterclockwise until snug with adjusting cap.

p. Place one spanner wrench (T216C908-11) in lock ring and second spanner wrench on adjusting cap and secure.



Step 3p - Para 10-65

10-66. ADJUSTMENT.

10-67. All adjustable components or assemblies that failed respective tests shall be adjusted to meet required specifications.

10-68. (RSSK-8E ONLY) ADJUSTMENT OF THE PRESSURE REDUCER ASSEMBLY. To adjust the outlet pressures and flow rates of the reducer assembly, proceed as follows:

1. Loosen lock ring (figure 10-13).

2. Turn adjusting cap counterclockwise to decrease pressure, clockwise to increase pressure.

3. Tighten lock ring.

4. Perform functional check on kit in accordance with paragraph 10-41.

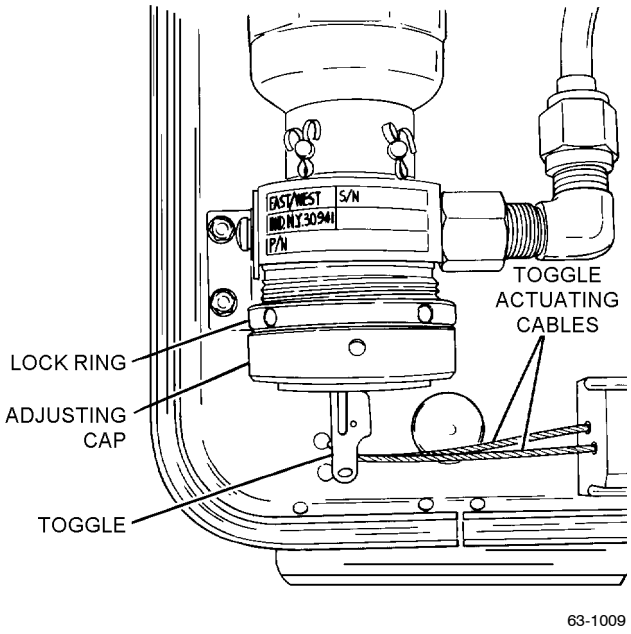


Figure 10-13. (RSSK-8E Only) Adjustable Pressure Reducer

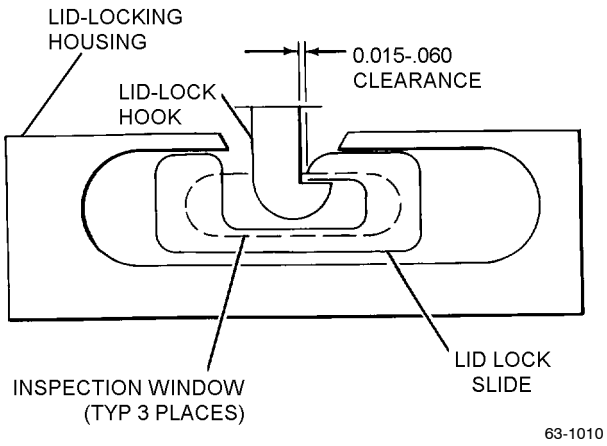
10-69. ADJUSTMENT OF LOCK ASSEMBLIES. If locks fail to release simultaneously, adjust (advance or retard) as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Lacquer, Fed. Std. 595	MIL-L-7178

1. Close RSSK-8. Ensure upper and lower containers are properly mated and release handle is locked in down position.

2. Visually check for full lid latch engagement with lid lock slides by observing through inspection slots in lower container.



Step 2 - Para 10-69

NOTE

If lock slide adjustment is necessary, perform steps 6a through 6c.

3. Slowly pull the release handle and check for simultaneous disengagement of lid latches from lock slides.

4. Remove release handle from multi-release assembly and lift upper container off lower container.

5. Visually inspect lock assemblies for full retraction of lid lock slides.

NOTE

If lock slide adjustment is necessary, perform steps 6a through 6c.

6. Adjust the lock slide engagement as follows:

a. To decrease lock slide engagement, loosen the locknut at the lock assembly and back the adjusting nut away from the lock assembly the desired amount.

b. To increase lock slide engagement, loosen the locknut at the lock assembly and turn the adjusting nut towards the lock assembly.

c. When desired engagement and/or timing is achieved, tighten locknut against adjusting nut.

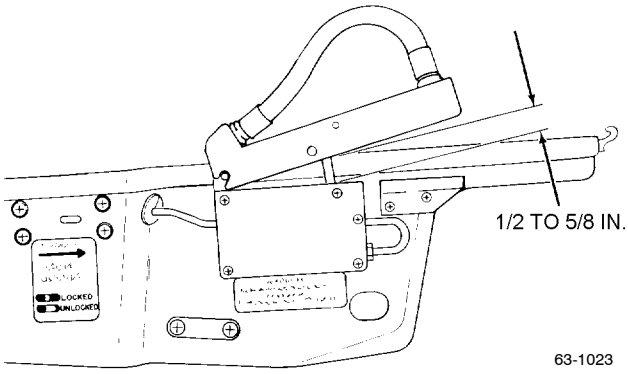
7. Insert two foam rubber blocks or a folded LR-1 liferaft with survival equipment into lower container.

NOTE

Foam rubber blocks shall be of sufficient height to exert outward pressure when squeezed, thus ensuring that the RSSK-8 upper and lower containers separate on release handle actuation.

8. Repeat steps 1 and 2.

9. Slowly pull the release handle to a point where simultaneous disengagement of lid latches from lock slides is achieved. Stop further travel of release handle at this point. Using a scale, measure the separation of handle to multi-release housing along the geometric centerline of the actuator link. All lid latches shall disengage, and upper and lower containers shall separate when release handle separation is 1/2 to 5/8 inch.

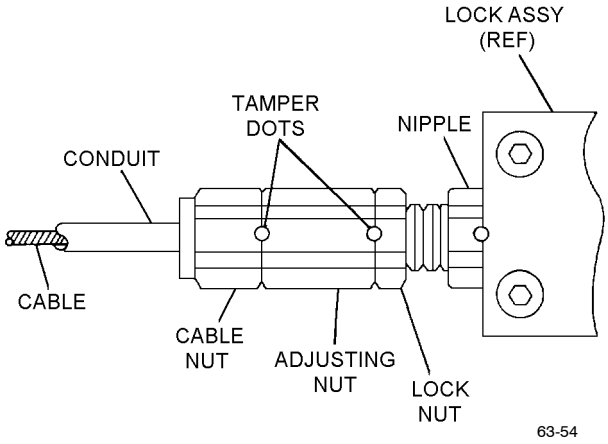


Step 9 - Para 10-69

10. If lock slide adjustment is necessary, perform steps 6a through 6c.

11. Open the RSSK-8. Ensure all release system hardware is properly tightened.

12. Apply tamper dots on locknuts and adjusting nuts. Use any contrasting color when applying tamper dots to locknuts and adjusting nuts.



Step 12 - Para 10-69

13. Apply clear tape around adjusting nuts and locknuts, ensuring tamper dots are covered.

14. Apply clear tape to inspection slots of lower container.

10-70. ADJUSTMENT OF OXYGEN RELIEF VALVE PRESSURE. To adjust the oxygen relief valve, proceed as follows:

1. Perform functional check in accordance with paragraph 10-41.

2. If relief valve does not unseat between 120 to 140 psi, reduce pressure to zero and remove relief valve.

3. Loosen hex locknut (figure 10-14) using the relief valve adjustment tool (paragraph 10-76).

NOTE

Turn in incremental adjustments of 1/2 ±1/4.

4. Adjust valve unseating pressure by turning the three prong pressure nut, clockwise to increase relief valve pressure and counterclockwise to decrease.

5. Tighten hex lock nut.

6. Install relief valve and recheck pressures.

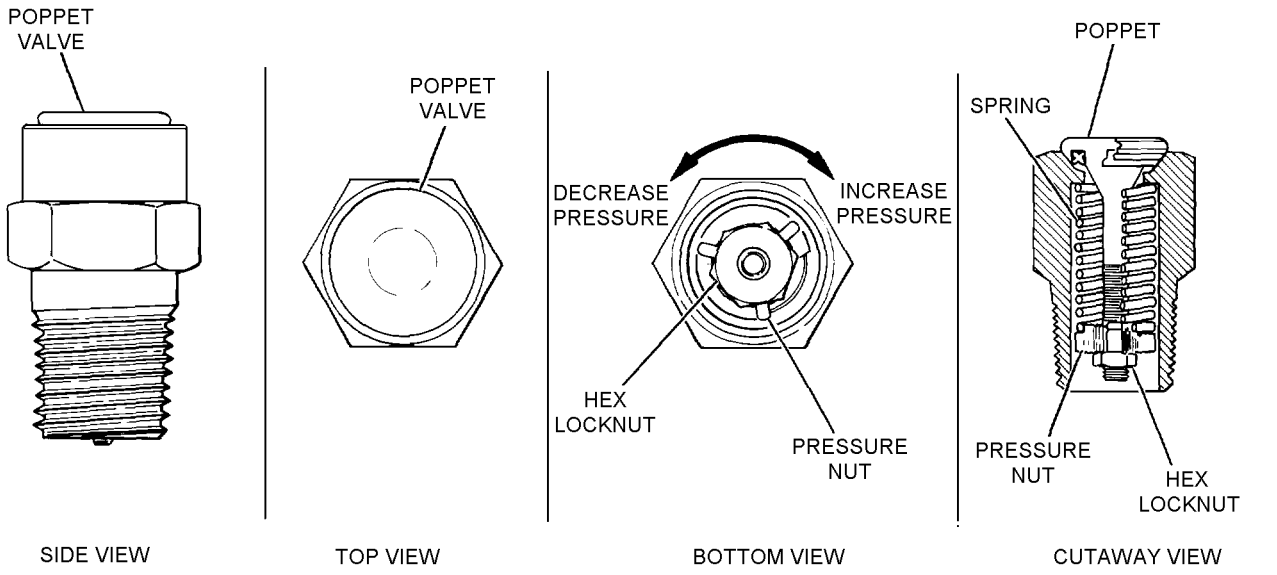
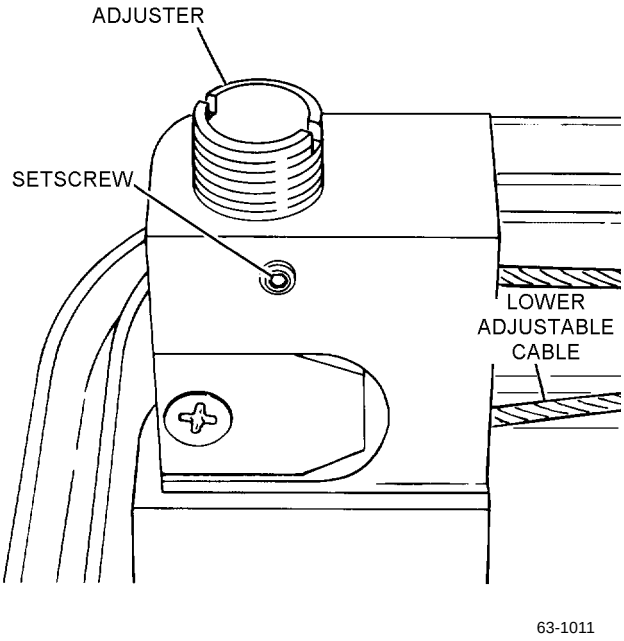


Figure 10-14. Adjustable Relief Valve (Typical)

10-71. ADJUSTMENT OF EMERGENCY OXYGEN ACTUATOR CABLE. To adjust the lower actuating cable, proceed as follows:

1. Loosen setscrew to unlock adjuster.

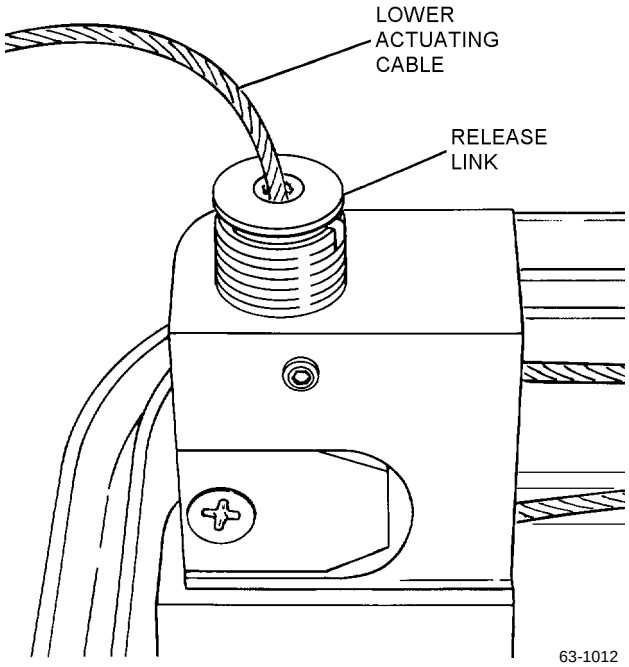


Step 1 - Para 10-71

2. Position adjuster within housing so that minimum slack exists in cable.

3. Check toggle to pressure reducer and ensure that it is not under cable tension (figure 10-13).

4. Check and ensure that the lower actuating release links are coupled and positioned within the adjuster.



Step 4 - Para 10-71

5. Tighten setscrew to lock adjuster.

6. Operate emergency actuator to ensure proper adjustment.

WARNING

Ensure that toggle arm is placed upright (not canted, turned, or overcocked) and positioned such that it will trip directly towards oxygen release assembly.

Ensure cables and cable balls are not wrapped around reducer toggle and jammed against the inside of the kit lid.

Section 10-7. Fabrication

10-72. GENERAL.

10-73. This section contains instructions for fabrication of tools and components that can be manufactured by local maintenance activities.

10-74. TOGGLE RESET TOOL. To fabricate toggle reset tool, proceed as follows:

1. Modify a standard slot screwdriver in accordance with figure 10-15.

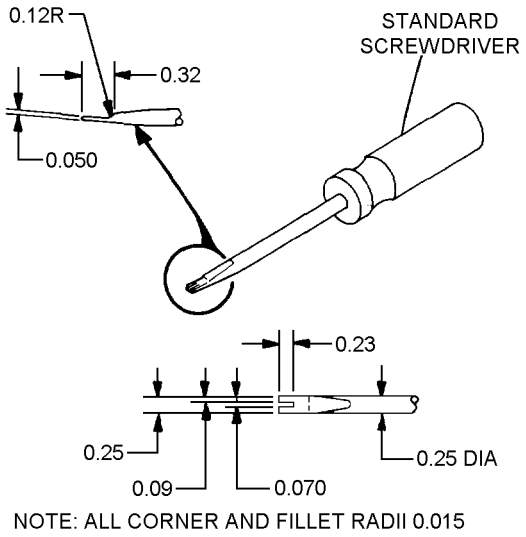


Figure 10-15. Toggle Reset Tool

10-75. DROPLINE. To fabricate a dropline, proceed as follows:

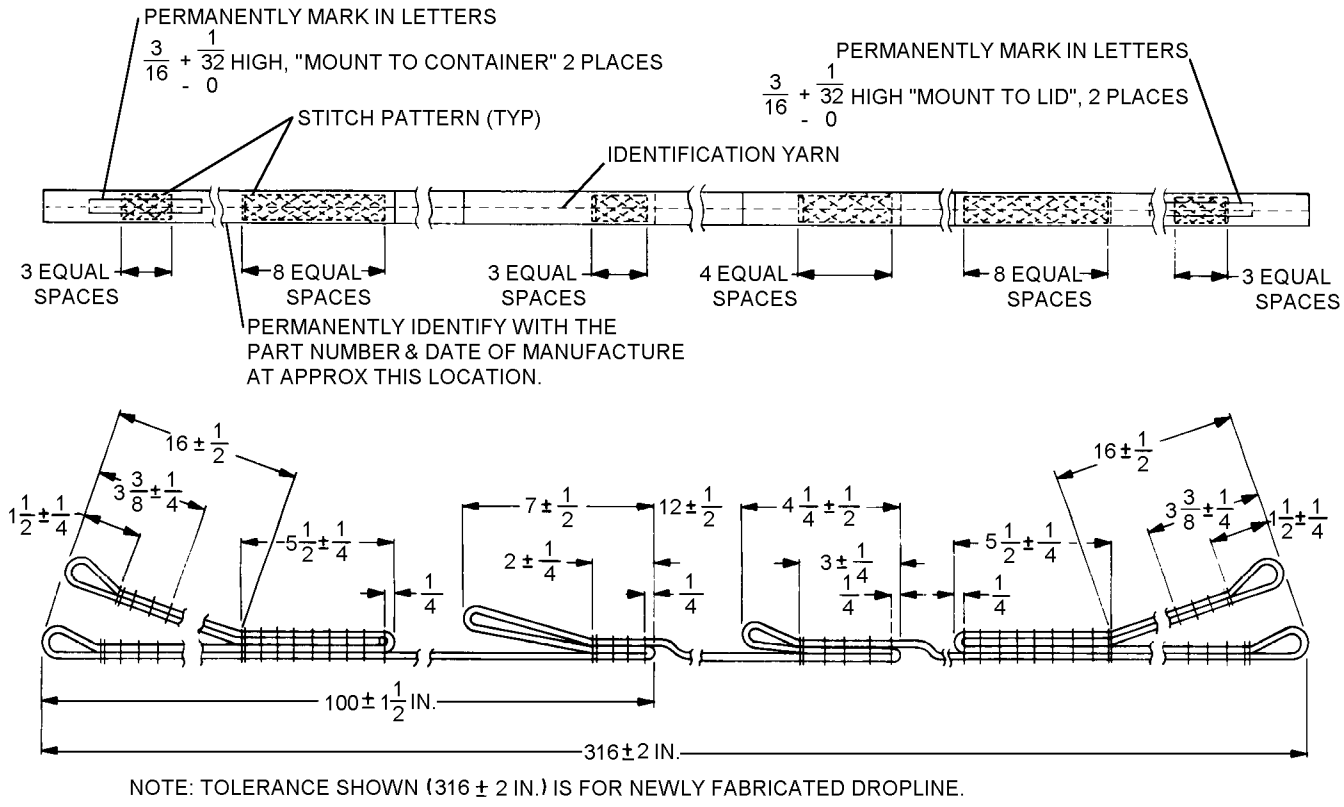
Materials Required

Quantity	Description	Reference Number
As Required	Webbing, 3/4-Inch, Yellow	MIL-W-5625 NIIN 00-753-6531
As Required	Thread, Nylon, Type I, Class A, Size FF, Color: White	V-T-295 NIIN 00-267-3024

1. Lay out webbing and position identification yarn on top before proceeding.

2. Construct a dropline in accordance with figure 10-16.

3. Sear exposed ends of webbing.



NOTE: TOLERANCE SHOWN (316 ± 2 IN.) IS FOR NEWLY FABRICATED DROPLINE.

63-228

Figure 10-16. Dropline

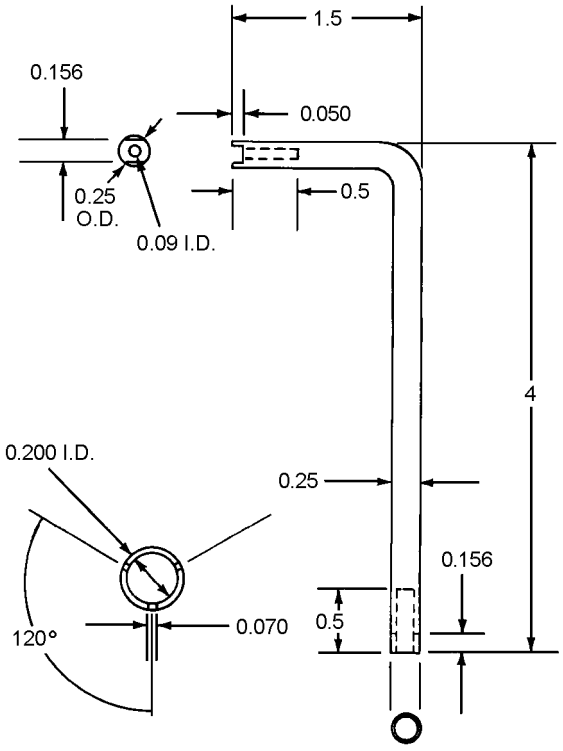
4. All stitching shall be Type 301, ASTM-D-6193, 8 to 10 stitches per inch, and backstitch 1/2-inch minimum.

10-76. RELIEF VALVE ADJUSTMENT TOOL. To fabricate a relief valve adjustment tool, proceed as follows:

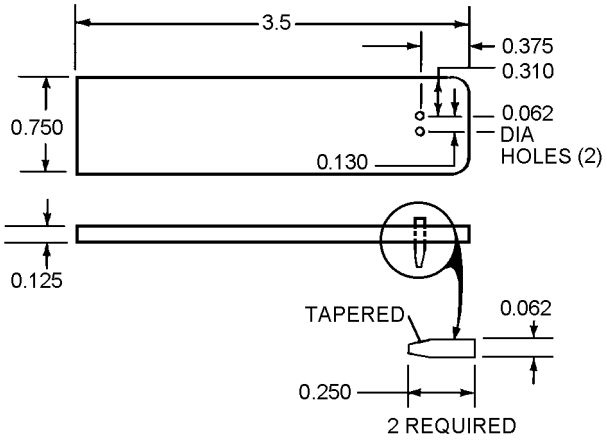
Materials Required

Quantity	Description	Reference Number
As Required	Mild Steel or Brass 0.25 Dia	—

1. Fabricate relief valve adjustment tool from mild steel or brass as shown.



THREE PRONG PRESSURE NUT ADJUSTABLE TYPE



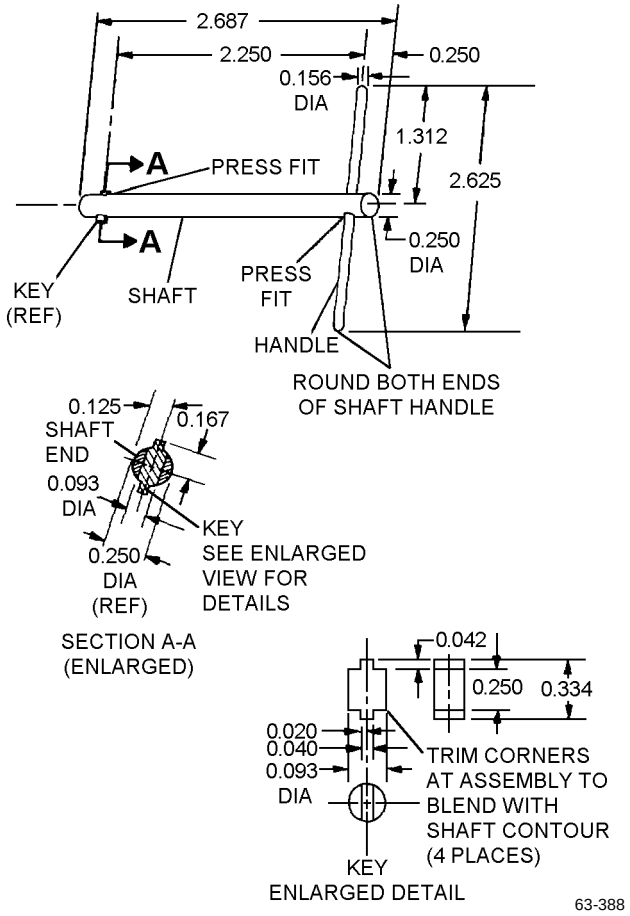
CAP ADJUSTABLE TYPE

63-3053

Step 1 - Para 10-76

10-77. T-WRENCH. To fabricate a T-wrench, proceed as follows:

1. Fabricate wrench from steel as shown.



63-388

Step 1 - Para 10-77

10-78. BOOT. To fabricate a boot, proceed as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Cloth, Nylon	MIL-C-8135 or MIL-C-81395
As Required	Thread, Nylon, Type I, Class A, Size FF, Color: White	V-T-295 NIIN 00-267-3024

1. Construct a boot in accordance with figure 10-17.

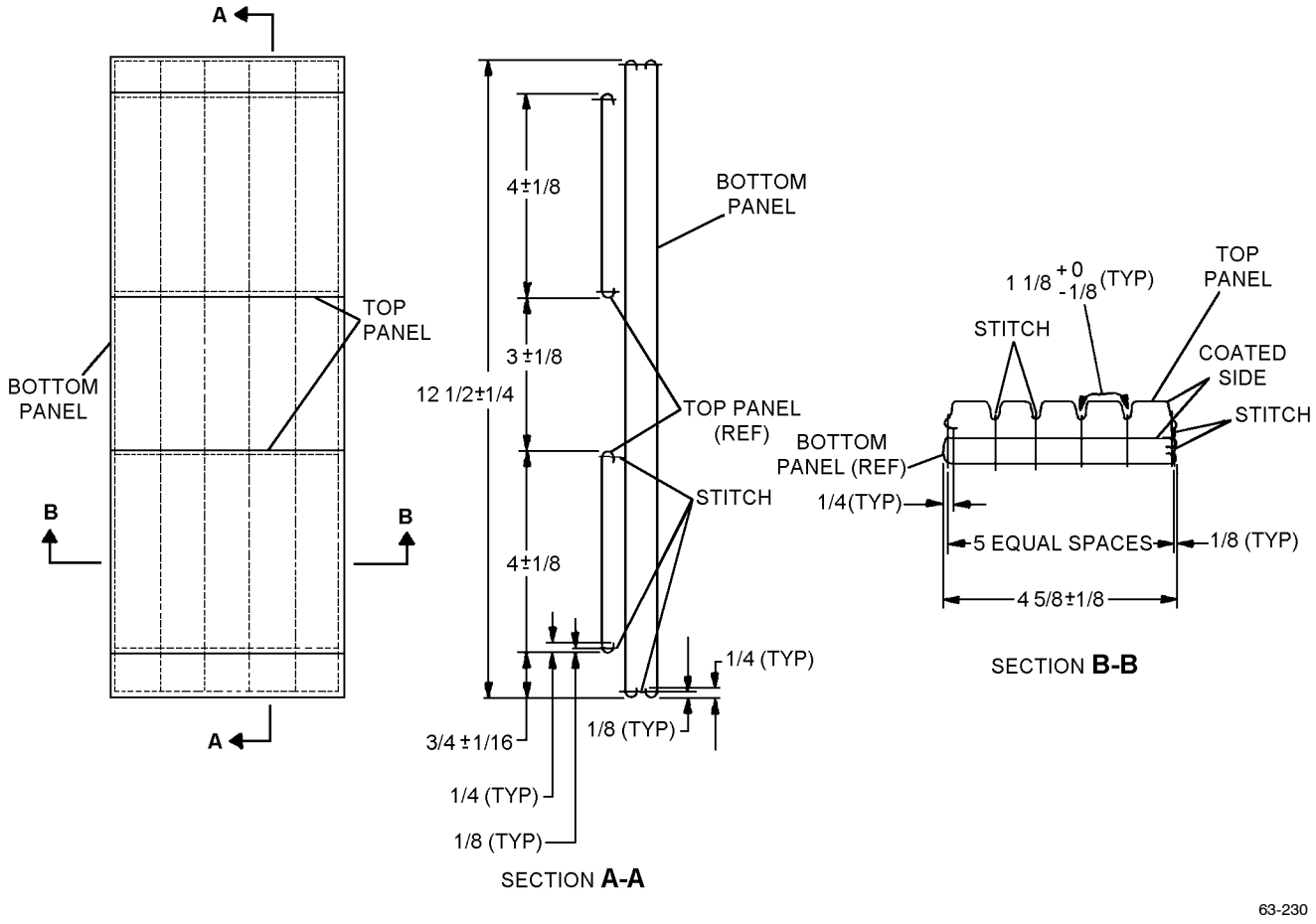


Figure 10-17. Boot

2. Sear exposed ends of nylon and avoid sharp edges.

3. All stitching shall be Type 301, ASTM-D-6193, 8 to 10 stitches per inches, and backstitch 1/2 inch minimum.

10-79. GUIDE BRACKET GAUGE. To fabricate a guide bracket gauge, proceed as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Drill or Steel Rod (.377-inch dia or greater) (4.75 ±.75 inch length)	—

1. Turn down one end of rod 0.375 +0.001, -0.000 inch diameter for 0.50-inch length. Mark/Scribe 0.375 on unworked rod surface adjacent to turn down (figure 10-18).

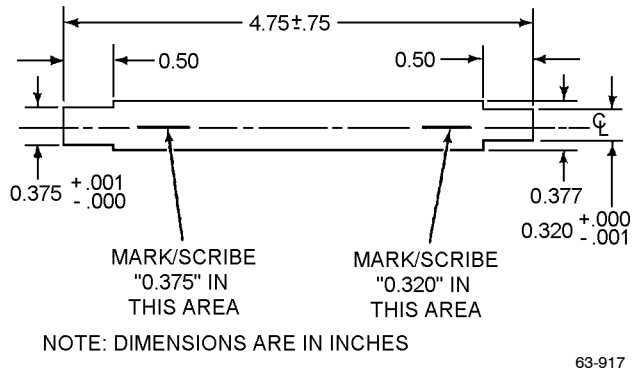


Figure 10-18. Guide Bracket Gauge

2. Turn down opposite end of rod to 0.320 +0.000, -0.001 inch diameter for 0.50-inch length. Mark/Scribe 0.320 on unworked rod surface adjacent to turn down.

10-80. BRAKE RIDER'S STRAP. To fabricate a brake rider's strap, proceed as follows:

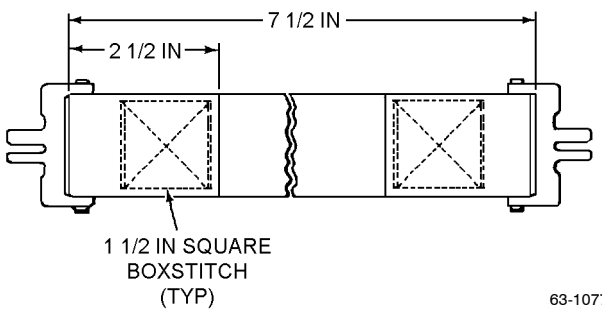
Materials Required

Quantity	Description	Reference Number
2	Release Assembly Lapbelt Fitting	015-11366-1 (CAGE 99449)
24 Inches	Webbing, Nylon, Type XXVII, 1 23/32 inches wide	MIL-W-4088 NIIN 00-530-1489
As Required	Thread, Nylon, Type II, Class A, Size 6	V-T-295 NIIN 00-559-5211

1. Cut a piece of nylon webbing 24 inches in length.

2. Sear exposed ends of webbing.

3. Secure fittings with 1 1/2-inch square boxstitch. All stitching shall be ASTM-D-6193, Type 301, 4 to 6 stitches per inch, and backstitch 1/2-inch minimum.



Step 3 - Para 10-80

10-81. ALTERNATE SEAT CUSHION FOAM. To fabricate a replacement foam cushion for the Seat Survival Kit, proceed as follows:

Materials Required

Quantity	Description	Reference Number
1	Disposable razor knife	—
As Required	CONFOR Foam 1 inch thick, Green	CF-47100 NIIN 01-370-6616
	Blue	CF-45100 NIIN 01-449-1789

1. Remove old foam from seat cushion cover.

2. Use the old foam as a template, place old foam on top of CONFOR foam.

NOTE

Ensure bulk CONFOR foam is large enough to make the new foam cushion one solid piece.

3. Trace around old foam onto the CONFOR foam, including hole for observing the emergency oxygen gage.

4. Cut CONFOR foam along the traced line.

5. Install new foam cushion into seat cushion cover. Ensure seat cushion cover fits cushion foam snugly, but does not cause bowing or excessively loose condition.

6. Write date installed on foam with permanent marker so it can be seen easily.

Section 10-8. Illustrated Parts Breakdown

10-82. GENERAL.

10-83. This section lists and illustrates the assemblies and detail parts of the RSSK-8 Series survival kit assembly as manufactured by East-West Industries (CAGE 30941).

10-84. The Illustrated Parts Breakdown should be used during maintenance when requisitioning and identifying parts.

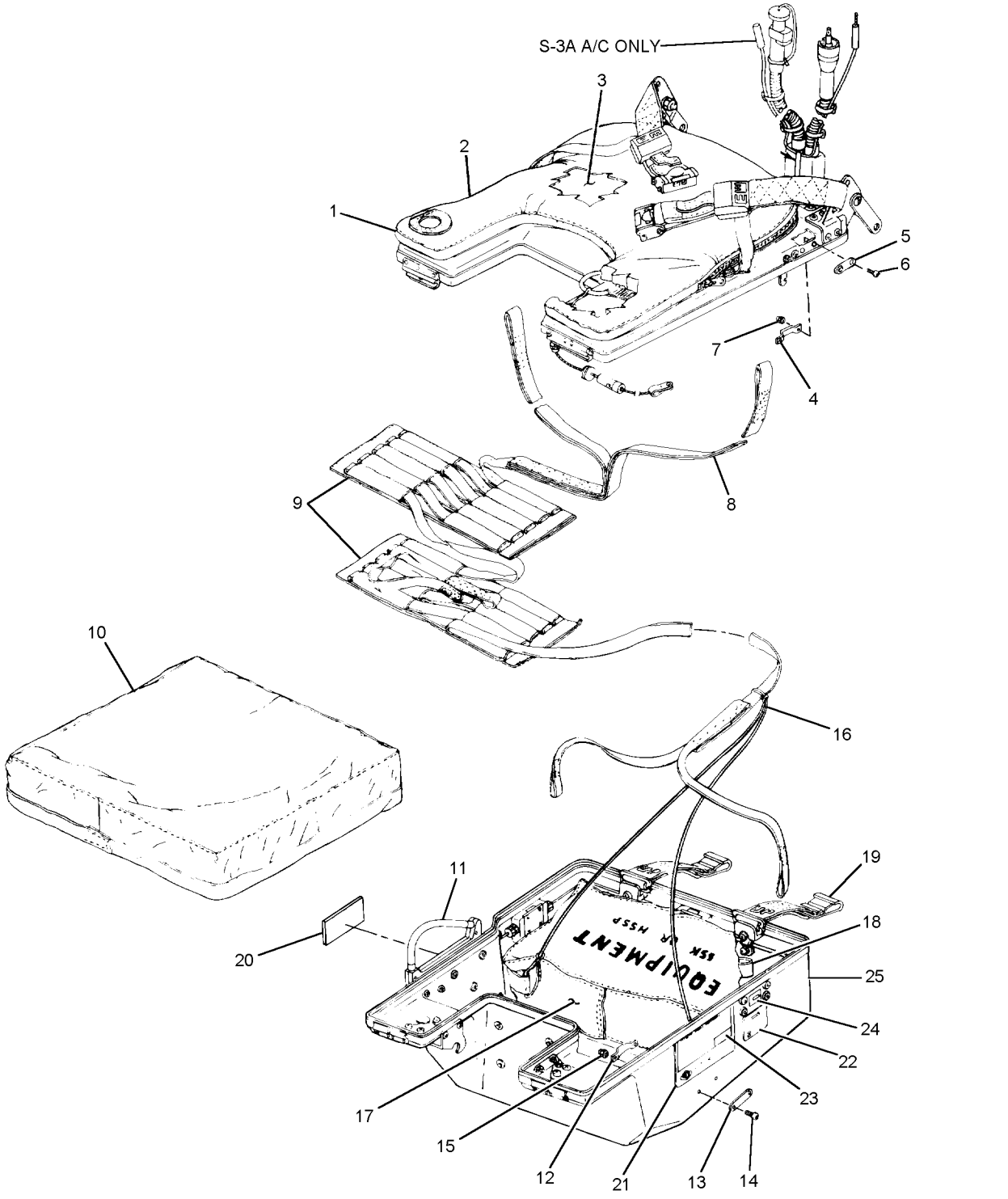


Figure 10-19. Survival Kit Assembly (RSSK-8D)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
10-19	102J100-6	SURVIVAL KIT ASSEMBLY RSSK-8D ..... /NIIN 01-052-7051/ (Note 1)	1	A
	102J100-6	SURVIVAL KIT ASSEMBLY RSSK-8D ..... /NIIN 01-052-7051/ (Note 2)	1	B
-1	102J200-1	. CONTAINER ASSEMBLY, Upper ..... (See figure 10-20 for BKDN)	1	A
	102J200-3	. CONTAINER ASSEMBLY, Upper ..... (See figure 10-20 for BKDN)	1	B
	102D670-1	. CUSHION ASSEMBLY ..... (Use until exhausted then use 102D670-3)	1	
	102D670-3	. CUSHION ASSEMBLY ..... (Supersedes 102D670-1)	1	
-2	102J650-1	. . COVER ASSEMBLY, Cushion	1	
-3	102D601-1	. . PAD ASSEMBLY, Cushion (Note 3)	1	
-4	102C101-11	. BRACKET, Footman	2	
-5	102C102-11	. BACKPLATE, Footman ..... (ATTACHING PARTS FOR INDEX NOS. 5 AND 6)	2	
-6	MS35207-262	. SCREW, Panhead (10-32 x 0.438)	2	
-7	22K1-02	. NUT, Cap (10-32) ..... ---*---	2	
	36H1323-31	. LANYARD ASSEMBLY, Retaining (80206)	1	
	102D620-3	. LANYARD ASSEMBLY, Retaining (30941)	1	
-8	102D622-3	. . DROPLINE ASSEMBLY	1	
-9	102C621-1	. . BOOT ASSEMBLY	2	
-10	36D1321	. COVER, Raft protective (80206)	1	
	102D610-11	. COVER, Raft protective (30941)	1	
-11	102D550-1	. HANDLE ASSEMBLY, Release (Superseded ..... by and interchangeable with 102D550-3)	1	
	102D550-3	. HANDLE ASSEMBLY, Release (Supersedes ..... and interchangeable with 102D550-1)	1	
-12	102C101-11	. BRACKET, Footman	2	
-13	102C102-11	. BACKPLATE, Footman ..... (ATTACHING PARTS FOR INDEX NOS. 12 AND 13)	2	
-14	MS35206-244	. SCREW, Panhead (8-32 x 0.438)	2	
-15	22K1-82	. NUT, Cap (8-32) (22599) ..... ---*---	2	
-16	MIL-C-5040	. CORD, Nylon, Type III ..... (NIIN 00-240-2146) (After ACC 332)	A/R	
-17	68A77D4-1	. CONTAINER ASSEMBLY, Equipment (80206) ...	1	
	102D615-1	. CONTAINER ASSEMBLY, Equipment (30941) ...	1	
-18	67A319D16-9	. RETAINING LANYARD ASSEMBLY (80206) ...	1	
	102D655-1	. RETAINING LANYARD ASSEMBLY (30941) ...	2	
-19	1195AS106-1	. STRAP, Parachute attachment (After ACC 377) ...	2	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
10-19	224C300-1	. STRAP, Parachute attachment (30941)	2	
-20	102D499-17	. LABEL, Warning	1	
-21	102D499-19	. LABEL, Nameplate	1	A
	204C912-11	. LABEL, Nameplate	1	B
-22	102D499-23	. LABEL, Instruction	2	
-23	1195AS116-1	. DECAL, RSSK-8D (After ACC 377)	1	
	234C500-1	. DECAL, RSSK-8D (30941)	1	
-24	No. 850	. MYLAR TAPE, Clear (1/2-in.)	A/R	
-25	102J400-1	. CONTAINER ASSEMBLY, Lower . . . . . (See Figure 10-22 for BKDN)	1	
		Notes: 1. This Assembly was created by the incorporation of ACC 332, ACC 325, ACC 379, and ACC 377 into the 102J100-1 Survival Kit Assembly. 2. This Assembly was created by the incorporation of ACC 332, ACC 325, ACC 379, and ACC 377 into the 102J100-3 Survival Kit Assembly. 3. Alternate seat cushion CONFOR foam has been authorized. See Fabrication, Section 10-7.		

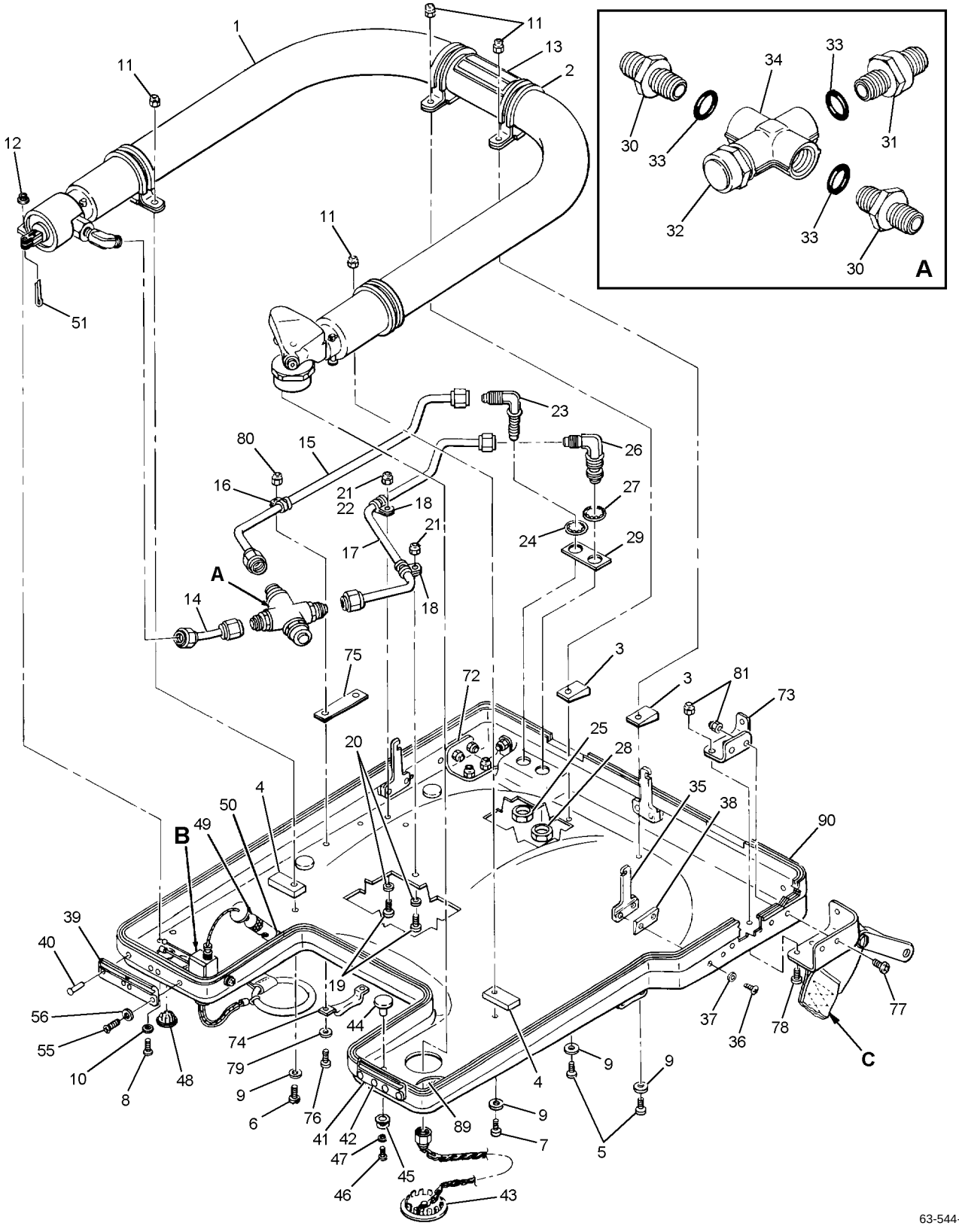


Figure 10-20. Upper Container Assembly (RSSK-8D) (Sheet 1 of 2)

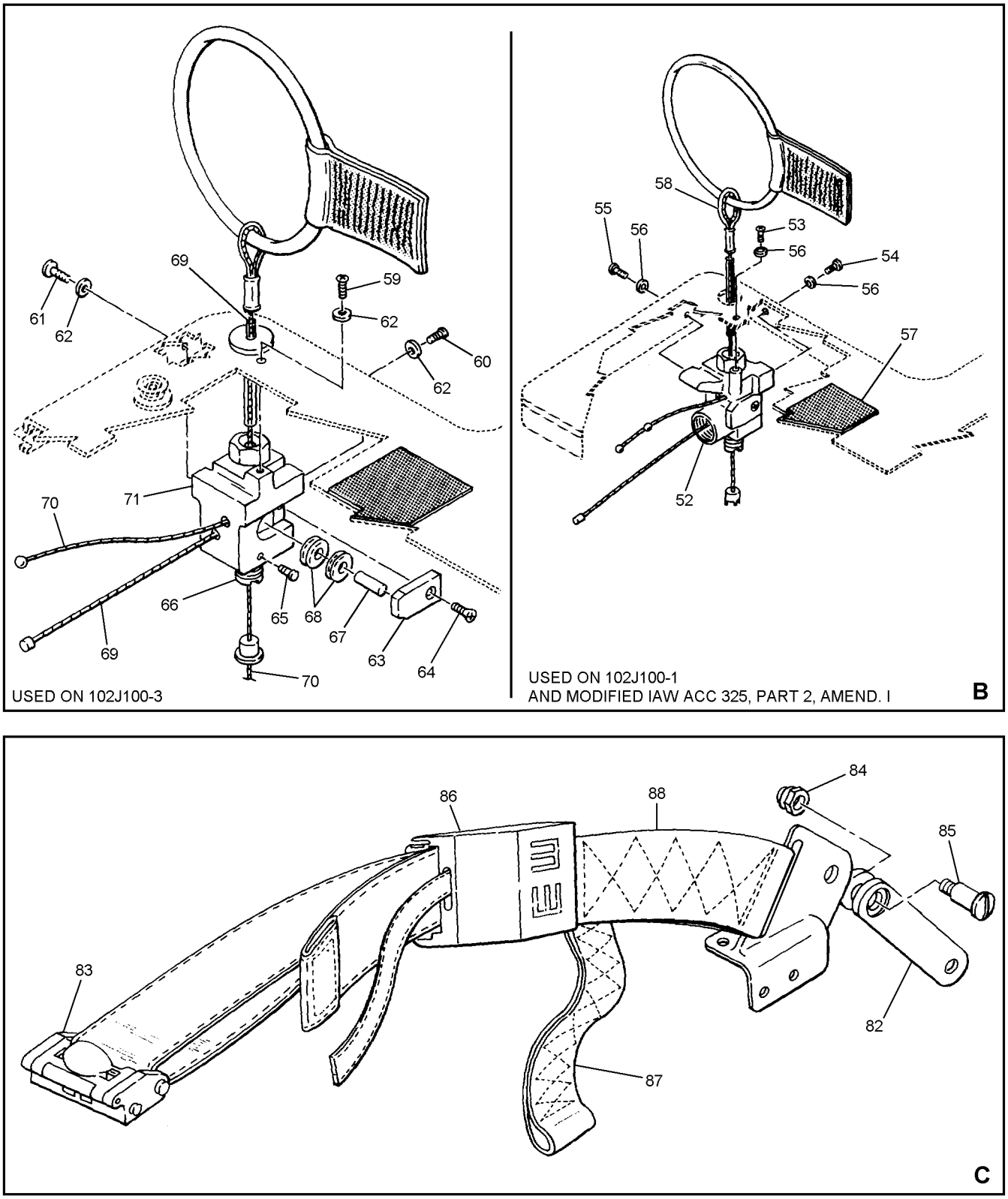


Figure 10-20. Upper Container Assembly (RSSK-8D) (Sheet 2 of 2)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
10-20	102J200-1	CONTAINER ASSEMBLY, Upper ..... (See figure 10-19 for NHA)	REF	A
	102J200-3	CONTAINER ASSEMBLY, Upper ..... (See figure 10-19 for NHA)	REF	B
-1	102D300-1	. OXYGEN SUPPLY ASSEMBLY, ... (See figure 10-21 for BKDN)	1	A
	102D300-3	. OXYGEN SUPPLY ASSEMBLY, ... (See figure 10-21 for BKDN) (ATTACHING PARTS)	1	B
-2	MS21919DG24	. CLAMP	4	
-3	102C208-13	. SPACER, Tapered	2	A
-4	102C208-15	. SPACER (0.25 thick) (Note 1)	2	A
	102C208-17	. SPACER (0.18 thick) (Note 2)	2	B
	102C208-19	. SPACER (0.160 thick) (Note 2)	2	B
-5	MS35207-267	. SCREW, Panhead (10-32 x 1.0 lg)	2	
-6	MS35207-266	. SCREW, Panhead (10-32 x 0.87 lg)	1	
-7	MS35207-266	. SCREW, Panhead (10-32 x 0.87 lg)	1	A
	MS35207-265	. SCREW, Panhead (10-32 x 0.75 lg)	1	B
-8	AN515-4R7	. SCREW, Round head (4-40 x 0.437 lg)	2	
-9	AN960PD10L	. WASHER, Flat (0.016 thick)	4	
-10	AN960PD4L	. WASHER, Flat (0.016 thick)	2	
-11	22K1-02	. NUT (10-32) (22599)	4	
-12	MS21042-04	. NUT, Self lock	2	
		---*---		
-13	102D499-27	. LABEL, Oxygen Assembly	1	A
	204BS26-11	. LABEL, Oxygen Assembly	1	B
-14	102C353-1	. TUBE ASSEMBLY, Reducer-to-manifold	1	
-15	102C354-1	. TUBE ASSEMBLY, Ship-to-manifold ..... (ATTACHING PARTS)	1	
-16	MS21919DG4	. CLAMP ..... ---*---	1	
-17	102C355-1	. TUBE ASSEMBLY, Kit-to-manifold ..... (ATTACHING PARTS)	1	
-18	MS21919DG4	. CLAMP	2	
-19	MS35207-264	. SCREW, Panhead (10-32 x 0.62 lg)	2	
-20	AN960PD10L	. WASHER, Flat (0.016 thick)	2	
-21	22K1-02	. NUT, Cap (10-32) (22599)	2	A
	22K1-02	. NUT, Cap (10-32) (22599)	1	B
-22	MS21042-3	. NUT, Self locking (10-32) ..... ---*---	1	B
-23	102A322-11	. ELBOW, O_2 inlet ..... (ATTACHING PARTS)	1	
-24	MS35333-77	. WASHER, Lock (0.464 id)	1	
10-20-25	AN924-4D	. NUT	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
		---*---		
-26	102C324-11	. ELBOW, Bulkhead	1	
		(ATTACHING PARTS)		
-27	MS35333-78	. WASHER, Lock (0.530 id)	1	
-28	AN924-5D	. NUT	1	
		---*---		
-29	102C329-11	. PLATE, Hose	1	
	102C365-1	. CROSS MANIFOLD ASSEMBLY	1	A
		(Superseded by 102C365-3)		
	102C365-3	. CROSS MANIFOLD ASSEMBLY	1	B
		(Supersedes 102C365-1)		
-30	AN815-4D	. . UNION	2	B
-31	3104AS100-1	. . VALVE, Check	1	B
-32	EW63004	. . VALVE, Relief (30941)	1	
	P103-673	. . VALVE, Relief (91816)	1	
	Z02RV04-4	. . VALVE, Relief (91816) (Note 14)	1	
-33	MS9068-012	. . O-RING (Note 3)	4	B
-34	AN937D4	. . CROSS, Internal screw thread	1	B
-35	1195AS109-1	. LATCH, Lid (Note 4)	3	
	230C535-13	. LATCH, Lid (30941) (Note 14)	3	
		(ATTACHING PARTS)		
-36	MS51958-63	. SCREW, Panhead (10-32 x 0.50 lg) (Note 5)	6	
-37	AN960PD10L	. WASHER, Flat (0.016 thick)	6	
-38	1195AS110-1	. SHIM, Tapered (1° 30') (Note 13)	3	
	230C536-11	. SHIM, Tapered (1° 30') (30941) (Note 13)	3	
	1195AS111-1	. SHIM, Tapered (3°) (Note 13)	3	
	230C536-13	. SHIM, Tapered (3°) (30941) (Note 13)	3	
	1195AS112-1	. SHIM, Tapered (6°) (Note 13)	3	
	230C536-15	. SHIM, Tapered (6°) (30941) (Note 13)	3	
		---*---		
-39	102D125-1	. HINGE, LH	1	
		(ATTACHING PARTS)		
-40	MS20470AD3-8	. RIVET (0.094 DIA x 0.50 lg)	3	
		---*---		
-41	102D125-3	. HINGE, RH	1	
		(ATTACHING PARTS)		
-42	MS20470AD3-8	. RIVET (0.094 dia x 0.50 lg)	4	
		---*---		
-43	102C280-1	. PLUG AND CAP ASSEMBLY	1	
-44	MS27983-2	. FASTENER, Stud	7	
-45	MS27983-3	. FASTENER, Eyelet	7	
		(ATTACHING PARTS FOR INDEX NOS. 44 AND 45)		
-46	COML	. SCREW, Panhead (3-56 UNF-3A x 0.375)	7	
-47	NAS620-5L	. WASHER, Flat (0.128 id x 0.238 od)	7	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
10-20-48	SS51338	. HOLE PLUG	1	
	102C325-1	. LANYARD ASSEMBLY, Oxygen release	1	
-49	102C364-3	. . COUPLING ASSEMBLY, Upper lanyard	1	
-50	102C363-1	. . COUPLING ASSEMBLY, Lower lanyard	1	
-51	MS24665-88	. PIN Cotter	1	
-52	102D390-1	. OXYGEN RELEASE ASSEMBLY (Note 6) (ATTACHING PARTS)	1	A
-53	AN515-4R5	. SCREW, Round head (4-40 x 0.312 lg) (Note 5)	1	A
-54	AN515-4R7	. SCREW, Round head (4-40 x 0.437 lg) (Note 5)	1	A
-55	AN515-4R8	. SCREW, Round head (4-40 x 0.50 lg) (Note 5)	1	A
-56	AN960PD4L	. WASHER, Flat (0.016 thick) ---*---	3	A
-57	MIL-F-21840	. PILE TAPE, Type II (Note 6)	1	A
-58	CL223D2-1	. RELEASE ASSEMBLY, Emergency oxygen (Note 7)	1	A
	102D392-1	. OXYGEN RELEASE ASSEMBLY (ATTACHING PARTS)	1	B
-59	AN515-4R5	. SCREW, Round head (4-40 x 0.312 lg) (Note 5)	1	B
-60	AN515-4R7	. SCREW, Round head (4-40 x 0.437 lg) (Note 5)	1	B
-61	AN515-4R8	. SCREW, Round head (4-40 x 0.50 lg) (Note 5)	1	B
-62	AN960PD4L	. WASHER, Flat (0.016 thick) (Note 5) ---*---	3	B
-63	102C389-11	. . COVER, Pulley	1	
-64	MS24693-53	. . SCREW, Flathead (4-40 x 0.312 lg) (Note 5)	1	
-65	MS18063-1	. . SCREW, Set (4-40 x 0.125 lg)	1	
-66	102C388-11	. . ADJUSTER	1	
-67	MS9164-066	. . PIN (0.140 dia x 0.50 lg)	1	
-68	102C391-11	. . PULLEY	2	
-69	102C336-1	. . CABLE ASSEMBLY, Manual O_2	1	
-70	102C395-3	. . LINK ASSEMBLY	1	
-71	102D393-11	. . HOUSING, Machined	1	
	CC-101D2-1	. HARNESS ASSEMBLY, LH (80206) (Notes 8 and 9)	1	
	102D680-7	. HARNESS ASSEMBLY, LH (30941) (Notes 9 and 10)	1	
	CC-101D2-2	. HARNESS ASSEMBLY, RH (80206) (Notes 9 and 10)	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
10-20	102D680-8	. HARNESS ASSEMBLY, RH (30941) (Notes 9 and 10) (ATTACHING PARTS)	1	
-72	102C241-11	. BRACKET, Backplate LH	1	
-73	102C241-12	. BRACKET, Backplate RH	1	
-74	102C101-13	. BRACKET, Footman	2	
-75	102C102-11	. BACKPLATE, Footman	2	
-76	MS51957-45	. SCREW, Panhead (8-32 x 0.50 lg)	4	
-77	MS51958-63	. SCREW, Panhead (10-32 x 0.50 lg)	6	
-78	MS51958-64	. SCREW, Panhead (10-32 x 0.62 lg)	4	
-79	AN9060PD8L	. WASHER, Flat	4	
-80	22K1-82	. NUT (8-32) (22599)	4	
-81	22K1-02	. NUT (22599) ---*---	10	
-82	102C645-11	. . LUG, Side release	1	
-83	015-11365-1	. . RELEASE ASSEMBLY, Lapbelt (99449) (Note 10)	1	
-84	22K2-048	. . NUT, Hex (1/4-28) (22599)	1	
-85	102C646-11	. . PIN, Lug	1	
-86	1195AS114-1	. . ADJUSTER, Harness restraint (After ACC 377)	1	
	184C100-1	. . ADJUSTER, Harness, restraint (30941) (Interchangeable with 1195AS114-1 in pairs only)	1	
-87	1195AS115-1	. . STRAP, Anti-rotation left (After ACC 377)	1	
	234C600-1	. . STRAP, Anti-rotation left (30941)	1	
	1195AS115-2	. . STRAP, Anti-rotation right (After ACC 377)	1	
	234C600-2	. . STRAP, Anti-rotation right (30941)	1	
-88	CC-101D2-3	. . HARNESS SUBASSEMBLY LH (80206)	1	
	102D680-1	. . HARNESS SUBASSEMBLY LH (30941)	1	
	CC-101D2-4	. . HARNESS SUBASSEMBLY RH (80206)	1	
	102D680-2	. . HARNESS SUBASSEMBLY RH (30941)	1	
-89	102C201-11	. WINDOW, Pressure gage (Note 12)	1	
	204B201-11	. WINDOW, Pressure gage (Note 13)	1	
-90	102J222-11	. LID ASSEMBLY, Machined	1	

Notes: 1. Interchangeable with spacer P/N 102C208-11 (0.31 thick) when required.
2. Interchangeable spacers when required.

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
	Notes: (Cont) 3. Apply EW34003 lubricant very lightly to O-rings just prior to Assembly. 4. The third lid latch was incorporated by ACC 379 and the structurally improved lid latches incorporated by ACC 377. 5. Apply VC-3 to threads. 6. Modified IAW ACC 325, Part 2, Amend. 1. 7. Incorporated by ACC 325, Part 2, Amend. 1. 8. Install 102C215-1 shim under Harness Bracket only if required for fit in alignment fixture. 9. Harness modified IAW ACC 377. 10. When replacing lapbelt Assembly, apply sealing, locking, and retaining compound, MIL-S-22473, to shoulder screws. 11. Bond with Epoxy lite No. 875 or equivalent. 12. Bond with Epoxy lite EW31002. 13. Part of shim set P/N 230C560-1. 14. Torque to a value of 70 ± 5 in-lbs.			

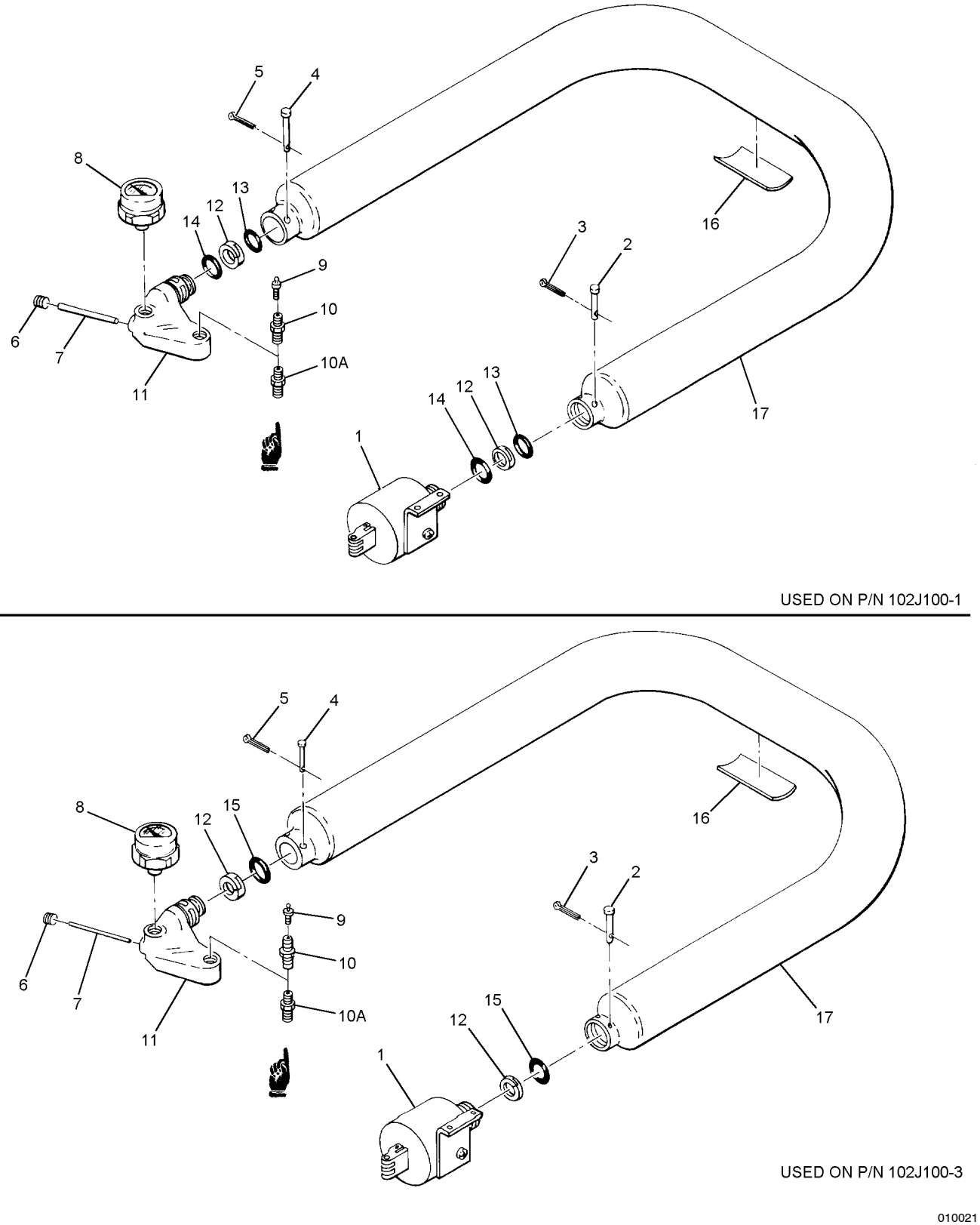


Figure 10-21. Oxygen Supply Assembly (RSSK-8D)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
10-21	102D300-1	OXYGEN SUPPLY ASSEMBLY, ... (See figure 10-20 for NHA)	REF	A
	102D300-3	OXYGEN SUPPLY ASSEMBLY, ... (See figure 10-20 for NHA)	REF	B
-1	102D310-1	. PRESSURE REDUCER ASSEMBLY	1	A
	102D396-1	. PRESSURE REDUCER ASSEMBLY . . . . . (ATTACHING PARTS)	1	B
-2	102C702-11	. PIN (0.153, 0.155 dia)	2	
-3	MS24665-1013	. PIN, Cotter (0.062 dia x 0.43 lg) . . . . . ---*---	2	
	102D370-1	. FILLER GAGE, Manifold Assembly	1	A
	102D370-3	. FILLER GAGE, Manifold Assembly . . . . . (ATTACHING PARTS)	1	B
-4	102C702-11	. PIN (0.153, 0.155 dia)	2	
-5	MS24665-1013	. PIN, Cotter (0.062 dia x 0.43 lg) . . . . . ---*---	2	
-6	AN932-S1	. . PLUG (Note 1)	1	
-7	102C321-11	. . FILTER ELEMENT (Fill gage manifold)	1	
-8	EW68001	. . GAGE, Oxygen (Note 1)	1	
-9	EW63001	. . VALVE CORE	1	
-10	102C383-11	. . VALVE BODY (Note 1)	1	
	MS22066-1	. . VALVE BODY (Alternate for 12C383-11)	1	
-10A	9120097-27	. . FILL VALVE (Note 4)	1	
-11	102D319-11	. . MANIFOLD BODY, Machined	1	A
	102D319-13	. . MANIFOLD BODY, Machined	1	B
-12	MS28774-014	. BACK-UP RING	2	
-13	MS9068-014	. O-RING (0.070 x 0.489 id) (Note 3)	2	A
-14	EW62002	. O-RING (0.070 x 0.551 id) (Note 2)	2	A
-15	NAS1611-014	. O-RING (0.070 x 0.489 id) (Note 3)	2	B
-16	102D499-29	. LABEL	1	A
	102B833-11	. LABEL	1	B
-17	102D330-1	. TUBE ASSEMBLY	1	A
	102D832-1	. TUBE ASSEMBLY	1	B

Notes:
1. Use Teflon Tape MIL-T-27730.
2. Apply light film of low temperature EW34004 fluorolube grease to O-rings.
3. Apply light film of EW34001 fluorinated grease to O-rings.
4. Fill Valve can be used as an alternate to replace Valve Body P/N 102C363-11 or P/N MS22066-1 and Valve Core P/N EW63001.

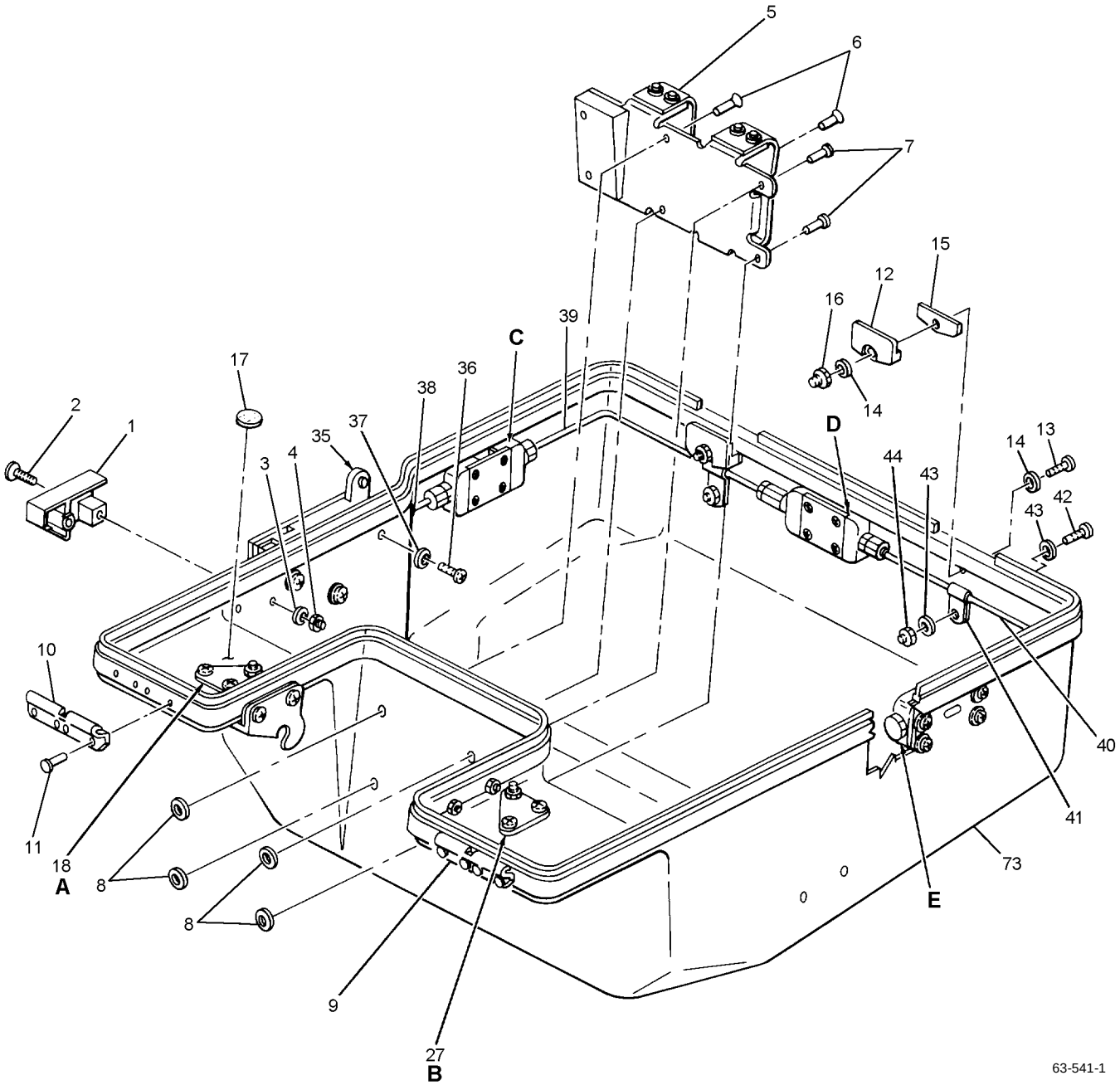


Figure 10-22. Lower Container Assembly (RSSK-8D) (Sheet 1 of 3)

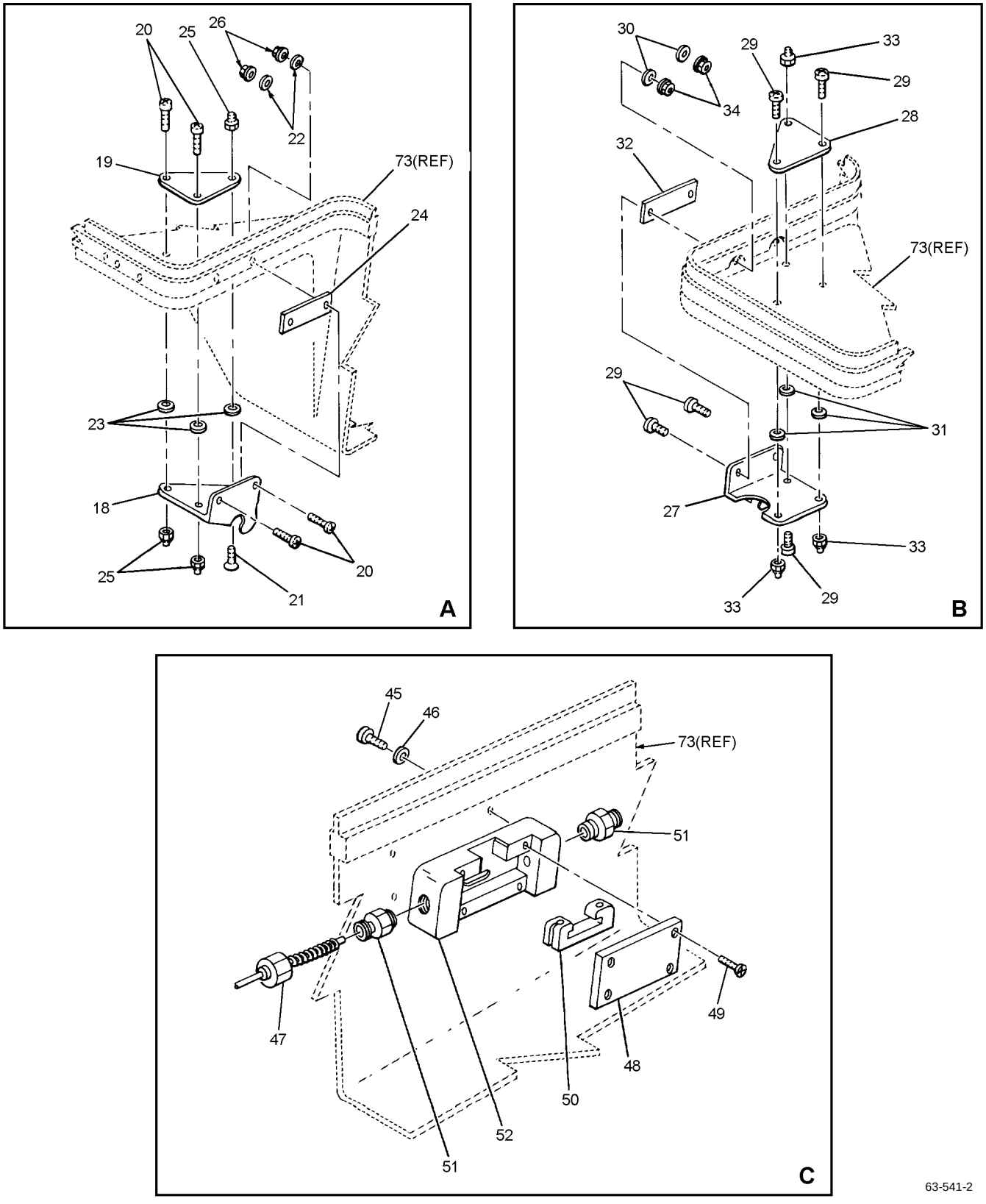


Figure 10-22. Lower Container Assembly (RSSK-8D) (Sheet 2 of 3)

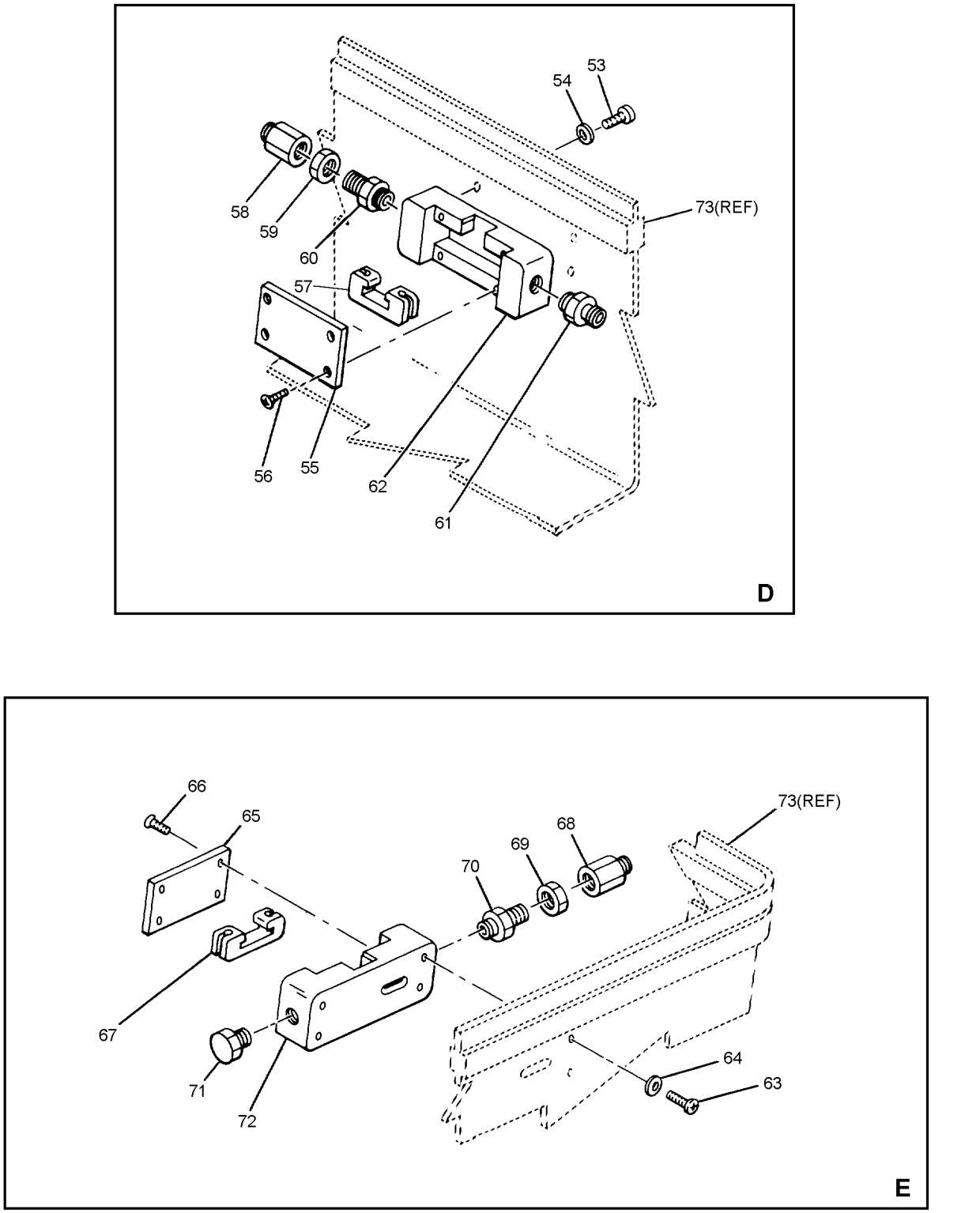


Figure 10-22. Lower Container Assembly (RSSK-8D) (Sheet 3 of 3)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
10-22	102J400	CONTAINER ASSEMBLY, Lower . . . . . (See figure 10-19 for NHA)	REF	
-1	1195AS113-1	. HANDLE PROTECTOR BRACKET . . . . . (After ACC 377)	1	
	234C450-11	. HANDLE PROTECTOR BRACKET (30941) . . . . . (ATTACHING PARTS)	1	
-2	MS35206-232	. SCREW, Machine-panhead	2	
-3	AN960PD6L	. WASHER, Flat	2	
-4	22K1-62	. CAPNUT . . . . . ---*---	2	
-5	CL204D2-1	. RADIO BRACKET ASSEMBLY (80206)	1	
	102D450-1	. RADIO BRACKET ASSEMBLY (30941) . . . . . (ATTACHING PARTS)	1	
-6	MS20426AD4-6	. RIVET, (0.125 dia x 0.375 lg)	2	
-7	MS20470AD4-6	. RIVET, (0.125 dia x 0.375 lg)	2	
-8	AN960PD6	. WASHER, Flat . . . . . ---*---	4	
-9	102D125-13	. HINGE, Container LH	1	
-10	102D125-17	. HINGE, Container RH . . . . . (ATTACHING PARTS FOR INDEX NOS. 9 AND 10)	1	
-11	MS20470AD3-8	. RIVET (0.094 dia x 0.500 lg) . . . . . ---*---	4	
-12	1195AS107-1	. CLIP (After ACC 377)	2	
	234C431-11	. CLIP (30941) . . . . . (ATTACHING PARTS)	2	
-13	MS35206-246	. SCREW, Machine-panhead (8-32 x 0.62 lg)	1	
-14	AN960PD8L	. WASHER, Flat	2	
-15	1195AS108-1	. SPACER	1	
	224B432-11	. SPACER (30941)	1	
-16	22K1-82	. NUT, Cap, self-locking (22599) . . . . . ---*---	1	
-17	102C406-11	. PAD (Note 1)	1	
-18	1195AS103-1	. BRACKET, Guide RH (After ACC 377)	1	
	234C410-13	. BRACKET, Guide, RH (30941)	1	
-19	1195AS101-1	. BACKPLATE, Bracket guide	1	
	102C401-15	. BACKPLATE, Bracket guide (30941) . . . . . (ATTACHING PARTS FOR INDEX NOS. 18 AND 19)	1	
-20	MS51958-64	. SCREW, Panhead (10-32 x 0.625 lg)	4	
-21	MS24693-C272	. SCREW, Flathead (100° csk) (10-32 x 0.50 lg)	1	
-22	AN960PD10L	. WASHER, Flat	2	
-23	1195AS105-1	. SHIM WASHER, Laminated	3	
	234C412-13	. SHIM WASHER, Laminated (30941)	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
10-22-24	1195AS104-1	. SHIM PLATE, Laminated	1	
	234C412-11	. SHIM PLATE, Laminated (30941)	1	
-25	22K1-02	. NUT, Cap, self-locking (22599)	3	
-26	MS21042-3	. NUT, Self-locking	2	
		---*---		
-27	1195AS102-1	. BRACKET, Guide LH (After ACC 377)	1	
	234C410-11	. BRACKET, Guide, LH (30941)	1	
-28	1195AS101-1	. BACKPLATE, Bracket guide	1	
	102C401-15	. BACKPLATE, Bracket guide (30941)	1	
		(ATTACHING PARTS FOR INDEX NOS. 27 AND 28)		
-29	MS51958-64	. SCREW, Panhead (10-32 x 0.625 lg)	5	
-30	AN9609PD10L	. WASHER, Flat	2	
-31	1195AS105-1	. SHIM WASHER, Laminated	3	
	234C412-13	. SHIM WASHER, Laminated (30941)	3	
-32	1195AS104-1	. SHIM PLATE, Laminated	1	
	234C412-11	. SHIM PLATE, Laminated (30941)	1	
-33	22K1-02	. NUT, Cap, self-locking (22599)	3	
-34	MS21042-3	. NUT, Self-locking	2	
		---*---		
-35	102D580-1	. LID LOCK RELEASE ASSEMBLY	1	
		(See figure 10-23 for BKDN)		
		(ATTACHING PARTS)		
-36	MS35207-262	. SCREW, Panhead (10-32 x 0.438 lg)	3	
-37	AN960PD10L	. WASHER, Flat	3	
		---*---		
-38	MS35490-25	. GROMMET	1	
-39	241C120-1	. CABLE ASSEMBLY, Right rear	1	
		(After ACC 379)		
-40	241C110-1	. CABLE ASSEMBLY, Left rear (After ACC 379)	1	
		(ATTACHING PARTS FOR INDEX NOS. 39 AND 40)		
-41	MS25281-F2	. CLAMP, Plastic	1	
-42	MS35207-262	. SCREW, Panhead (10-32 x 0.438 lg)	1	
-43	AN960PD10L	. WASHER, Flat	2	
-44	22K1-02	. NUT, Cap (10-32) (22599)	1	
		---*---		
	102C540-1	. LOCK ASSEMBLY, Right	1	
		(ATTACHING PARTS)		
-45	MS35207-262	. SCREW, Panhead (10-32 x 0.438 lg)	4	
-46	AN960PD10L	. WASHER, Flat	4	
		---*---		
-47	102C560-1	. . CABLE ASSEMBLY, Right	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
10-22-48	102C523-11	. . COVER	1	
		(ATTACHING PARTS)		
-49	MS24693-53	. . SCREW, Flathead (4-40 x 0.312 lg)	4	
		---*---		
-50	102C521-13	. . SLIDE	1	
-51	102C527-13	. . NIPPLE	2	
-52	102C519-1	. . HOUSING, Machined	1	
	102C545-1	. LOCK ASSEMBLY, Rear (After ACC 379)	1	
		(ATTACHING PARTS)		
-53	MS35207-262	. SCREW, Panhead (10-32 x 0.438 lg)	4	
-54	AN960PD10L	. WASHER, Flat	4	
		---*---		
-55	102C523-11	. . COVER	1	
		(ATTACHING PARTS)		
-56	MS24693-53	. . SCREW, Flathead (4-40 x 0.312 lg)	4	
		---*---		
-57	102C521-13	. . SLIDE	1	
-58	102C525-11	. . ADJUSTER	1	
-59	102C701-15	. . LOCKNUT	1	
-60	102C527-11	. . NIPPLE	1	
-61	102C527-13	. . NIPPLE	1	
-62	102C519-1	. . HOUSING, Machined	1	
	102C520-1	. LOCK ASSEMBLY, Left	1	
		(ATTACHING PARTS)		
-63	MS35207-262	. SCREW, Panhead (10-32 x 0.438 lg)	4	
-64	AN960PD10L	. WASHER, Flat	4	
		---*---		
-65	102C523-11	. . COVER	1	
		(ATTACHING PARTS)		
-66	MS24693-53	. . SCREW, Flathead (4-40 x 0.312 lg)	4	
		---*---		
-67	102C521-13	. . SLIDE	1	
-68	102C525-11	. . ADJUSTER	1	
-69	102C701-15	. . LOCKNUT	1	
-70	102C527-11	. . NIPPLE	1	
-71	102C526-11	. . PLUG	1	
-72	102C519-1	. . HOUSING, Machined	1	
-73	102J422-11	. . CONTAINER, Machined	1	
	Notes: 1. Apply adhesive No. 460 to pad.			

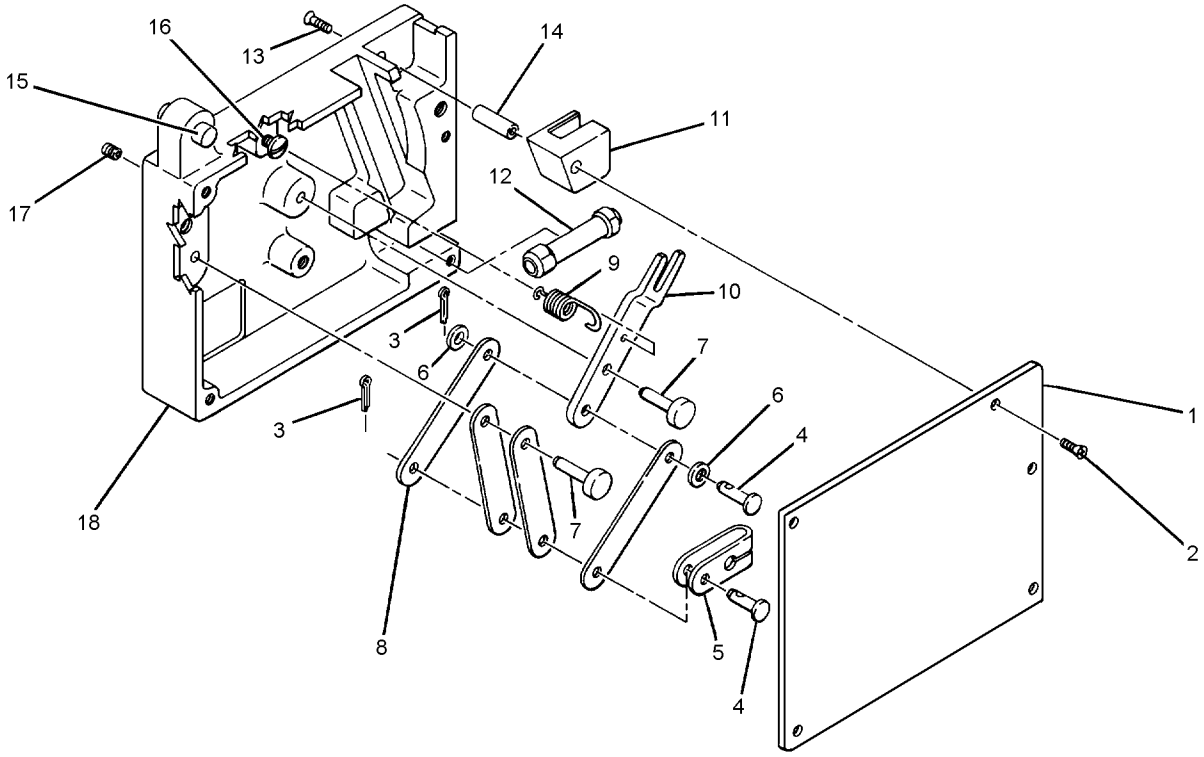


Figure 10-23. Lid Lock Release Assembly (RSSK-8D)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
10-23	102D580-1	LID LOCK RELEASE ASSEMBLY . . . . . . (See figure 10-22 for NHA)	REF	
-1	102C597-11	. COVER . . . . . . (ATTACHING PARTS)	21	
-2	MS24693-53	. SCREW, Flathead (4-40) (Note 1) . . . . . . ---*---	5	
-3	MS24665-1011	. PIN, Cotter (0.312 lg)	2	
-4	MS9462-05	. PIN, Clevis	2	
-5	102C581-11	. CLEVIS	1	
-6	AN960-C6	. WASHER, Flat	2	
-7	102C596-11	. PIN, Pivot (0.312 dia x 0.60 lg)	2	
-8	102C582-11	. LINK TOGGLE	4	
-9	102C584-11	. SPRING, Toggle	1	
-10	102C583-13	. LEVER, Actuating	1	
-11	102C589-11	. GUIDE	1	
-12	102C595-11	. ADJUSTER	1	
	102C588-1	. HOUSING INSERT ASSEMBLY	1	
-13	MS24693-53	. . SCREW (4-40 x 0.312 lg) (Note 1)	1	
-14	102C594-11	. . STANDOFF	1	
-15	MS9390-421	. . PIN (0.252 x 0.500 lg)	1	
-16	COML	. . SCREW (4-40 x 0.312 lg)	1	
-17	MS21209F1-15	. . HELICAL COIL (10-32 x 0.285 lg)	3	
-18	102D587-11	. . HOUSING, Machined lid lock release	1	
	Notes: 1. Loctite sealant grade A or equivalent.			

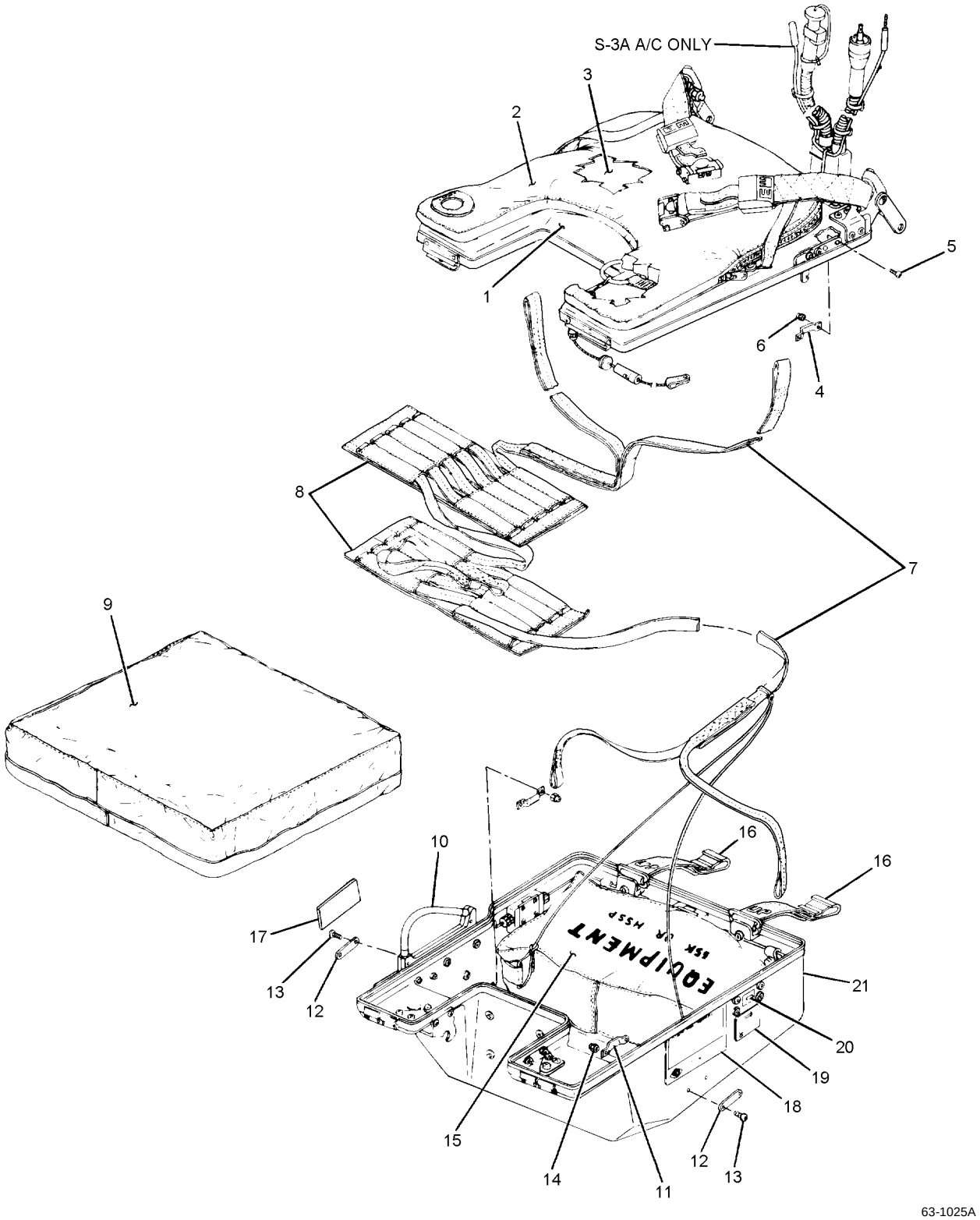


Figure 10-24. Survival Kit Assembly (RSSK-8E)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
10-24	102J100-7	SURVIVAL KIT ASSEMBLY RSSK-8E	1	
-1	102J200-9	. CONTAINER ASSEMBLY, Upper (See figure 10-25 for BKDN)	1	
	102D670-3	. CUSHION ASSEMBLY	1	
-2	102J650-3	. . COVER ASSEMBLY, Cushion	1	
-3	102D601-3	. . PAD ASSEMBLY, Cushion (Note 1)	1	
-4	102C101-11	. BRACKET, Footman (ATTACHING PARTS)	2	
-5	MS51958-62	. SCREW, Panhead (10-32 x 0.438)	2	
-6	EW42001	. NUT, Cap (10-32) ---*---	2	
	102D620-5	. LANYARD ASSEMBLY, Retaining	1	
-7	102D622-5	. . DROPLINE LANYARD ASSEMBLY	1	
-8	102C621-1	. . BOOT ASSEMBLY	2	
-9	36D1321	. COVER, Raft, protective (80206)	1	
	102D610-11	. COVER, Raft, protective (30941)	1	
-10	102D550-3	. HANDLE ASSEMBLY, Release	1	
-11	102C101-11	. BRACKET, Footman	2	
-12	102C102-11	. BACKPLATE, Footman (ATTACHING PARTS FOR INDEX NOS. 11 AND 12)	2	
-13	MS51958-62	. SCREW, Panhead (10-32 x 0.438)	2	
-14	EW42001	. NUT, Cap (10-32) ---*---	2	
-15	102D615-3	. CONTAINER ASSEMBLY, Equipment	1	
-16	224C300-1	. STRAP, Parachute attachment	2	
-17	102D499-17	. LABEL, Warning	1	
-18	204C912-11	. LABEL, Nameplate	1	
-19	102D499-23	. LABEL, Instruction	1	
	102D499-15	. LABEL, Instruction	2	
-20	No. 850	. MYLAR TAPE, Clear (1/2-in.)	A/R	
-21	102J400-5	. CONTAINER ASSEMBLY, Lower (See figure 10-28 for BKDN)	1	

Notes: 1. Alternate seat cushion foam P/N CF-47100, CONFOR foam (1M331), NIIN 01-370-6116, has been authorized. See Fabrication Section 10-7.
2. For S-3A A/C ONLY.

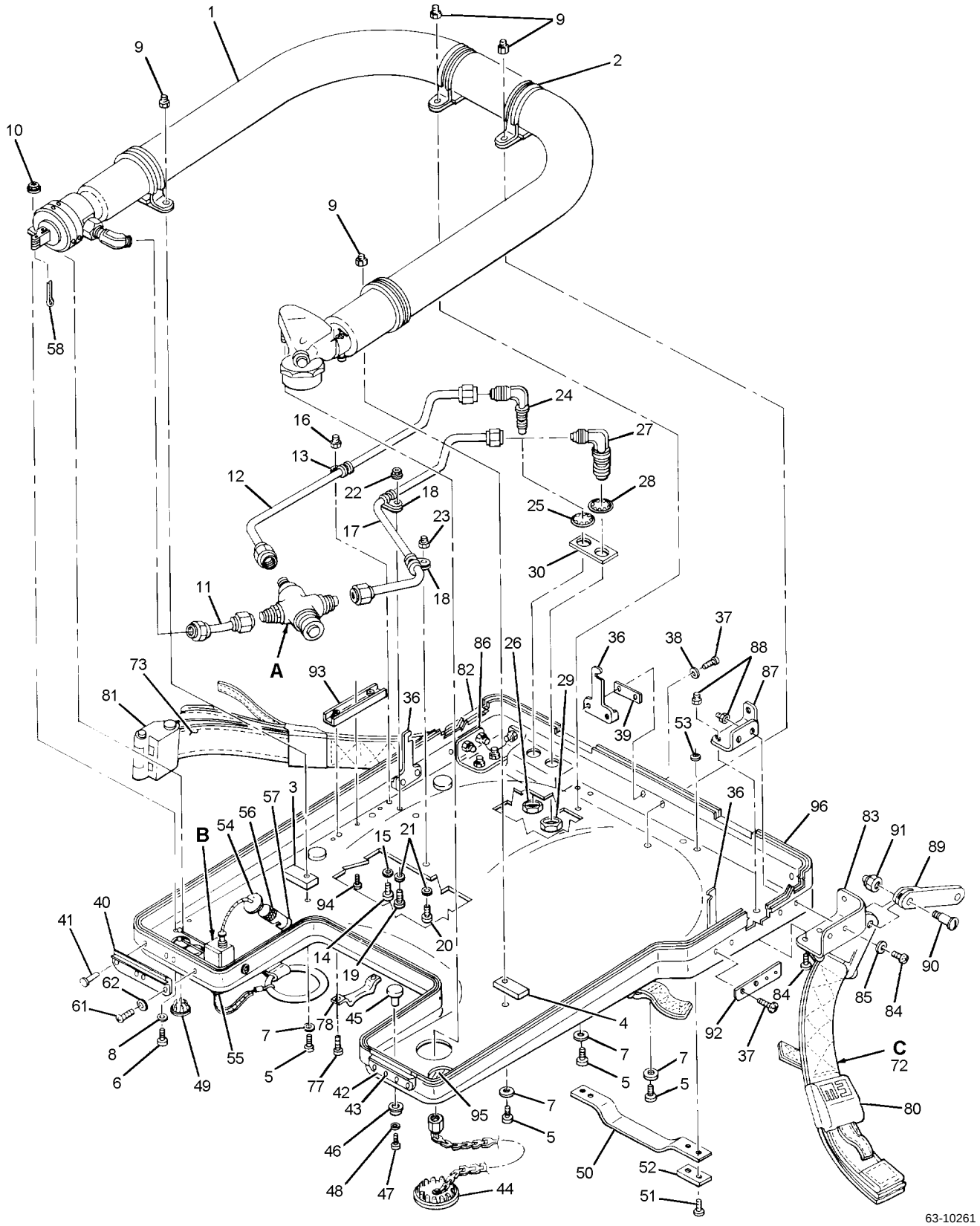


Figure 10-25. Upper Container Assembly (RSSK-8E) (Sheet 1 of 2)

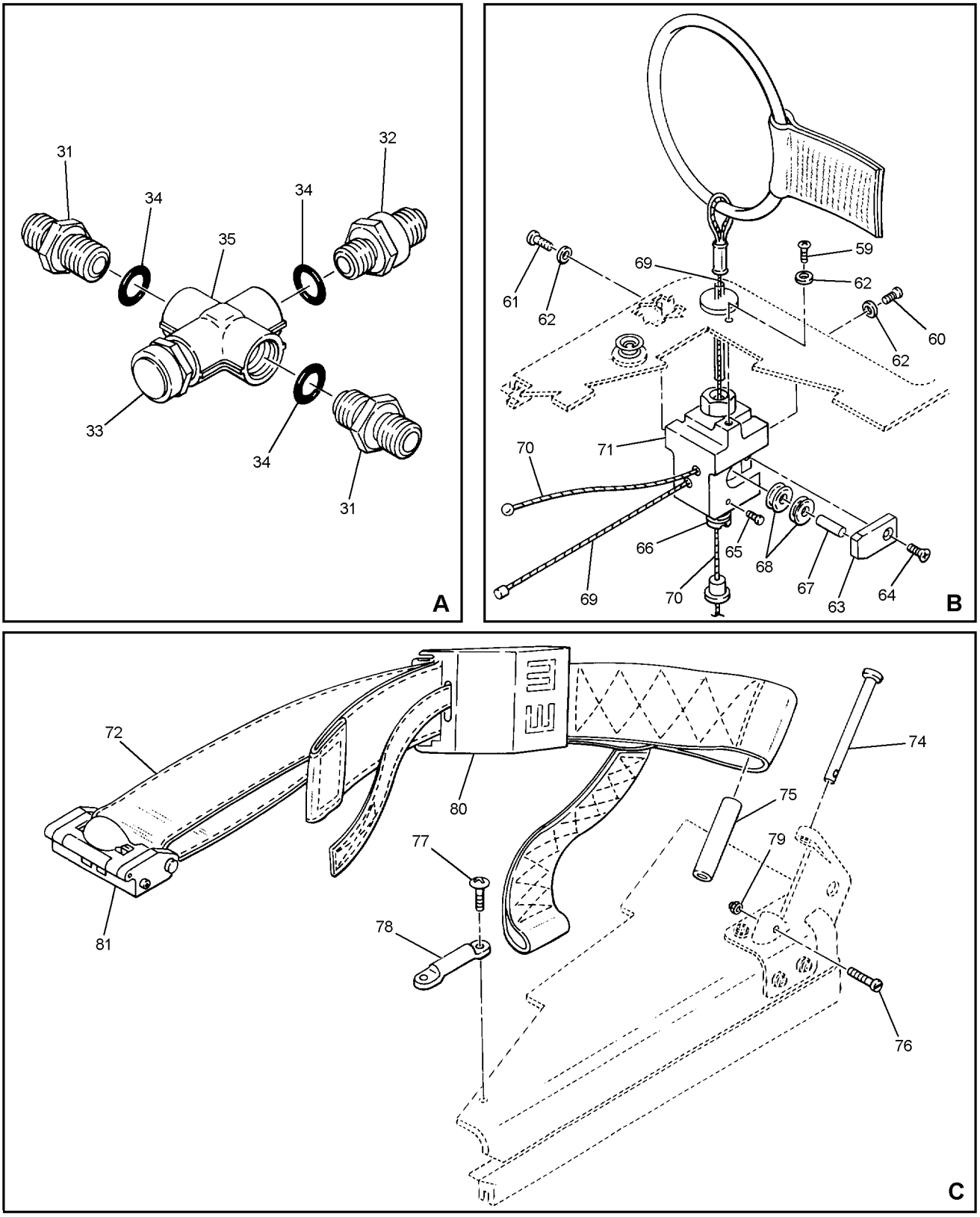


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Figure 10-25. Upper Container Assembly (RSSK-8E) (Sheet 2 of 2)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
10-25	102J200-9	CONTAINER ASSEMBLY, Upper ..... (See figure 10-24 for NHA)	REF	
-1	102D300-5	. OXYGEN SUPPLY ASSEMBLY ..... (See figure 10-26 for BKDN) (ATTACHING PARTS)	1	
-2	MS21104C24	. CLAMP	4	
-3	102C208-17	. SPACER (0.18 thick)	1	
-4	102C208-19	. SPACER (0.16 thick)	1	
-5	MS51958-65	. SCREW, Panhead (10-32 x 0.75 lg)	4	
-6	AN515C4R7	. SCREW, Round head (4-40 x 0.437 lg)	2	
-7	AN960C10L	. WASHER, Flat (0.016 thick)	4	
-8	AN960C4L	. WASHER, Flat (0.016 thick)	2	
-9	EW42001	. NUT, Cap (10-32)	4	
-10	MS21043-04	. NUT, Self locking ..... ---*---	2	
-11	102C353-1	. TUBE ASSEMBLY, Reducer-to-manifold	1	
-12	102C354-1	. TUBE ASSEMBLY, Ship-to-manifold ..... (ATTACHING PARTS)	1	
-13	MS21104C4	. CLAMP	1	
-14	MS51958-64	. SCREW, Panhead (10-32 x 0.63 lg)	1	
-15	AN960C10L	. WASHER, Flat (0.016 thick)	1	
-16	EW42001	. NUT, Cap (10-32) ..... ---*---	1	
-17	102C355-1	. TUBE ASSEMBLY, Kit-to-manifold ..... (ATTACHING PARTS)	1	
-18	MS21104C4	. CLAMP	2	
-19	MS51958-64	. SCREW, Panhead (10-32 x 0.63 lg)	1	
-20	MS27039C1-09	. SCREW, Panhead (10-32 x 0.594 lg)	1	
-21	AN960C10L	. WASHER, Flat (0.016 thick)	2	
-22	MS21043-3	. NUT, Self locking	1	
-23	EW42001	. NUT, Cap (10-32) ..... ---*---	1	
-24	102A322-11	. ELBOW, Bulkhead, O_2 inlet ..... (ATTACHING PARTS)	1	
-25	MS35333-77	. WASHER, Lock	1	
-26	AN924-4D	. NUT ..... ---*---	1	
-27	102C324-11	. ELBOW, Bulkhead, O_2 outlet ..... (ATTACHING PARTS)	1	
-28	MS35333-78	. WASHER, Lock	1	
-29	AN924-5D	. NUT ..... ---*---	1	
-30	102C329-11	. PLATE, Hose	1	
	102C365-3	. CROSS MANIFOLD ASSEMBLY	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
10-25-31	AN815-4D	. . UNION	2	
-32	EW63003	. . VALVE, Check	1	
-33	EW63004	. . VALVE, Relief	1	
-34	MS9068-012	. . O-RING (Note 1)	4	
-35	AN937D4	. . CROSS, Internal screw thread	1	
-36	230C535-13	. LATCH, Lid	3	
		(ATTACHING PARTS)		
-37	MS51958-64	. SCREW, Panhead (10-32 x 0.63 lg) (Note 2)	6	
-38	AN960C10L	. WASHER, Flat (0.016 thick)	1	
-39	230C536-11	. SHIM, Tapered	1	
		---*---		
-40	102D125-1	. HINGE, LH	1	
		(ATTACHING PARTS)		
-41	MS20470AD3-8	. RIVET (0.094 dia x 0.50 lg)	3	
		---*---		
-42	102D125-3	. HINGE, RH	1	
		(ATTACHING PARTS)		
-43	MS20470AD3-8	. RIVET (0.094 dia x 0.50 lg)	4	
		---*---		
-44	102C280-1	. PLUG AND CAP ASSEMBLY	1	
-45	MS27983-3N	. FASTENER, Stud	7	
-46	MS27983-5N	. FASTENER, Eyelet	7	
		(ATTACHING PARTS FOR INDEX NOS. 45 AND 46)		
-47	EW41004	. SCREW, Panhead (0.375 lg)	7	
-48	NAS620C5L	. WASHER, Flat (0.128 id x 0.238 od)	7	
		---*---		
-49	EW58001	. HOLE PLUG	1	
-50	221B710-11	. HANDLE, Carrying	1	
		(ATTACHING PARTS)		
-51	MS20470A4-8	. RIVET	4	
-52	221B711-11	. RETAINER, Handle	2	
-53	AN960C4L	. WASHER, Flat (0.016 thick)	4	
		---*---		
-54	102B328-11	. PLUG, Protective	1	
-55	102B334-11	. PLUG, Protective	1	
	102C325-1	. LANYARD ASSEMBLY, Oxygen release	1	
-56	102C364-3	. . COUPLING ASSEMBLY, Upper	1	
-57	102C363-1	. . COUPLING ASSEMBLY, Lower	1	
-58	MS24665-83	. PIN, Cotter	1	
	102D392-1	. OXYGEN RELEASE ASSEMBLY	1	
		(ATTACHING PARTS)		
-59	AN515C4R5	. SCREW, Round head (4-40 x 0.312 lg) (Note 2)	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
10-25-60	AN515C4R7	. SCREW, Round head (4-40 x 0.437 lg) (Note 2) . . .	1	
-61	AN515C4R8	. SCREW, Round head (4-40 x 0.50 lg) (Note 2)	1	
-62	AN960C4L	. WASHER, Flat (0.016 thick) (Note 2)	3	
		---*---		
-63	102C389-11	. . COVER, Pulley	1	
-64	MS24693-53	. . SCREW, Flat head (4-40 x 0.312 lg) (Note 2) . . .	1	
-65	MS18063-1	. . SCREW, Set (4-40 x 0.125 lg)	1	
-66	102C388-11	. . ADJUSTER	1	
-67	MS9164-006	. . PIN (0.140 x 0.50 lg)	1	
-68	102C391-11	. . PULLEY	2	
-69	102C336-1	. . CABLE ASSEMBLY, Manual O_2	1	
-70	102C395-3	. . LINK ASSEMBLY	1	
-71	102D393-11	. . HOUSING, Machined	1	
-72	217D227-1	. HARNESS ASSEMBLY, LH	1	
-73	217D227-2	. HARNESS ASSEMBLY, RH	1	
		(ATTACHING PARTS FOR INDEX NOS. FOR 72 AND 73)		
-74	217B221-11	. PIN	2	
-75	217B222-11	. ROLLER	2	
-76	102B648-11	. SCREW (2.56 X 0.66 lg Crest)	2	
-77	MS51958-63	. SCREW, Panhead (10-32 x 0.50 lg)	4	
-78	102C101-13	. BRACKET, Footman	2	
-79	EW42010	. NUT, Lock	2	
		---*---		
-80	184C100-1	. ADJUSTER, Lapbelt (30941)	2	
-81	015-11365-1	. RELEASE ASSEMBLY, Lapbelt	2	
		(99449) (Note 3)		
-82	217C223-11	. BRACKET, Corner LH	1	
-83	217C223-12	. BRACKET, Corner RH	1	
		(ATTACHING PARTS FOR INDEX NOS. 82 AND 83)		
-84	MS51958-64	. SCREW, Panhead (10-32 x 0.625 lg)	5	
-85	AN960C10L	. WASHER, Flat (0.016 thick)	5	
-86	102C241-13	. BACKPLATE, LH	1	
-87	102C241-14	. BACKPLATE, RH	1	
-88	EW42001	. NUT (10-32)	5	
		---*---		
-89	102C647-13	. LUG, Release	2	
		(ATTACHING PARTS)		
-90	102B646-11	. PIN, Lug	1	
-91	EW42004	. NUT, Cap	1	
		---*---		

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
10-25-92	102B242-11	. PLATE, Reinforcement	2	
-93	102C281-11	. NUT PLATE	2	
		(ATTACHING PARTS)		
-94	MS20470AD3-5	. RIVET	3	
		---*---		
-95	204B201-11	. WINDOW, Pressure gage (Note 4)	1	
-96	102J222-13	. LID ASSEMBLY, Machined	1	
	Notes: 1. Apply EW34003 lubricant very lightly to O-rings just prior to Assembly. 2. Apply EW31004 to threads. 3. When replacing lapbelt Assembly, apply sealing, locking, and retaining compound, MIL-S-22473, to shoulder screws. 4. Bond with Epoxy lite No. 815 or equivalent.			

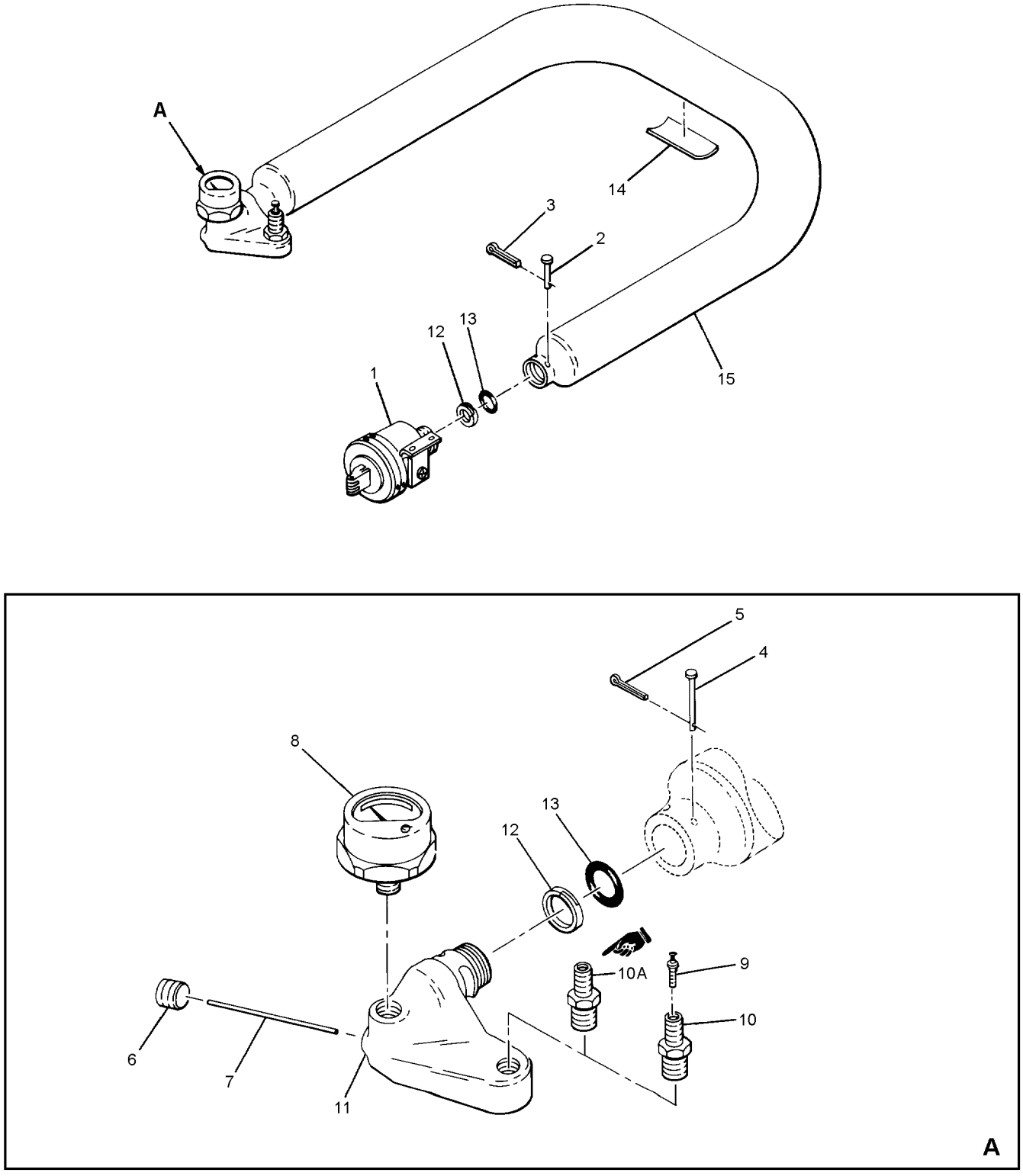


Figure 10-26. Oxygen Supply Assembly (RSSK-8E)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
10-26	102D300-5	OXYGEN SUPPLY ASSEMBLY . . . . . (See figure 10-25 for NHA)	REF	
-1	233D810-1	. PRESSURE REDUCER ASSEMBLY . . . . . (See figure 10-27 for BKDN) (ATTACHING PARTS)	1	
-2	102C702-11	. PIN (0.153, 0.155 dia)	2	
-3	MS24665-1013	. PIN, Cotter (0.062 dia x 0.43 lg) . . . . . ---*---	2	
	102D370-3	. FILLER GAGE, Manifold Assembly . . . . . (ATTACHING PARTS)	1	
-4	102C702-11	. PIN (0.153, 0.155 dia)	2	
-5	MS24665-1013	. PIN, Cotter (0.062 dia x 0.43 lg) . . . . . ---*---	2	
-6	AN932-S1	. . PLUG (Note 1)	1	
-7	102C321-11	. . FILTER ELEMENT (Fill gage manifold)	1	
-8	EW68001	. . GAGE, Oxygen (Note 1)	1	
-9	EW63001	. . VALVE CORE	1	
-10	102C383-11	. . VALVE BODY (Note 1)	1	
	MS22066-1	. . VALVE BODY (Alternate for 102C383-11)	1	
-10A	9120097-27	. . FILL VALVE (Note 3)	1	
-11	102D319-13	. . MANIFOLD BODY, Machined	1	
-12	MS28774-014	. BACK-UP RING	1	
-13	NAS1611-014	. O-RING (0.070 x 0.489 id) (Note 2)	2	
-14	102B833-11	. LABEL	1	
-15	102D832-1	. TUBE ASSEMBLY	1	

Notes:
1. Use Teflon Tape MIL-T-27730.
2. Apply light film of EW34001 fluorinated grease to O-rings.
3. Fill Valve can be used as an alternate to replace Valve Body P/N 102C363-11 or P/N MS22066-1 and Valve Core P/N EW63001.

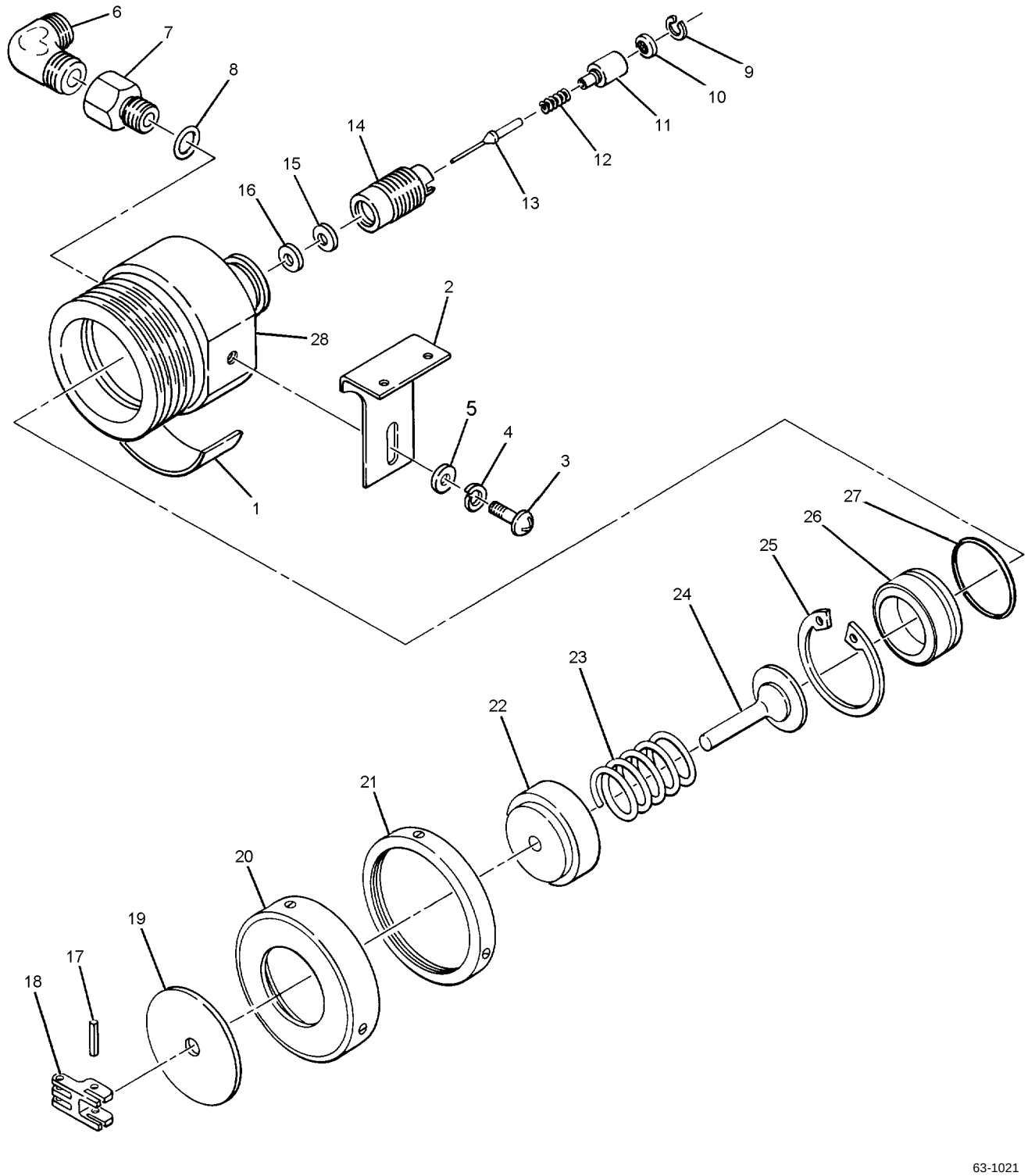


Figure 10-27. Pressure Reducer Assembly (RSSK-8E)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
10-27	233D810-1	PRESSURE REDUCER ASSEMBLY, ... (See figure 10-26 for NHA)	REF	
-1	233B826-11	. NAMEPLATE	1	
-2	233C822-11	. BRACKET ..... (ATTACHING PARTS)	1	
-3	MS51957-26	. SCREW, Panhead	1	
-4	MS35338-136	. WASHER, Lock spring	1	
-5	AN960C6L	. WASHER, Flat ..... ---*---	1	
-6	MS20822-4C	. ELBOW (Note 1)	1	
-7	102B812-11	. FITTING, Outlet	1	
-8	MS28778-2	. O-RING (Note 2)	1	
-9	MS16625-4025	. RING, Retaining	1	
-10	102B819-11	. FILTER (Note 3)	1	
-11	102B818-11	. GUIDE, Poppet	1	
-12	102B814-11	. SPRING, Poppet	1	
-13	102B817-11	. POPPET	1	
-14	102C815-11	. RETAINER (Note 4)	1	
-15	102B828-11	. STOP, Backup ring	1	
-16	102B816-11	. SEAT	1	
-17	MS171435	. SPRING PIN	1	
-18	102C303-15	. TOGGLE	1	
-19	233B823-11	. SPACER	1	
-20	233C829-11	. CAP, Adjust	1	
-21	233C830-11	. LOCK RING	1	
-22	233C820-11	. GUIDE, Piston	1	
-23	233B831-11	. SPRING	1	
-24	102C824-11	. PLUNGER	1	
-25	EW48001	. RING, Retaining	1	
-26	102C821-11	. PISTON	1	
-27	MS28775-117	. O-RING (Note 2)	1	
-28	233D811-11	. REDUCER BODY	1	

Notes:
1. To assemble pipe threaded parts use Teflon tape 1/2 wide conforming to MIL-T-27730 and apply according to instructions specified in MIL-T-27730.
2. Apply light film of EW34001 fluorinated grease to O-rings.
3. Install coarse mesh near side.
4. Torque retainer 32 to 35 in.-lbs.

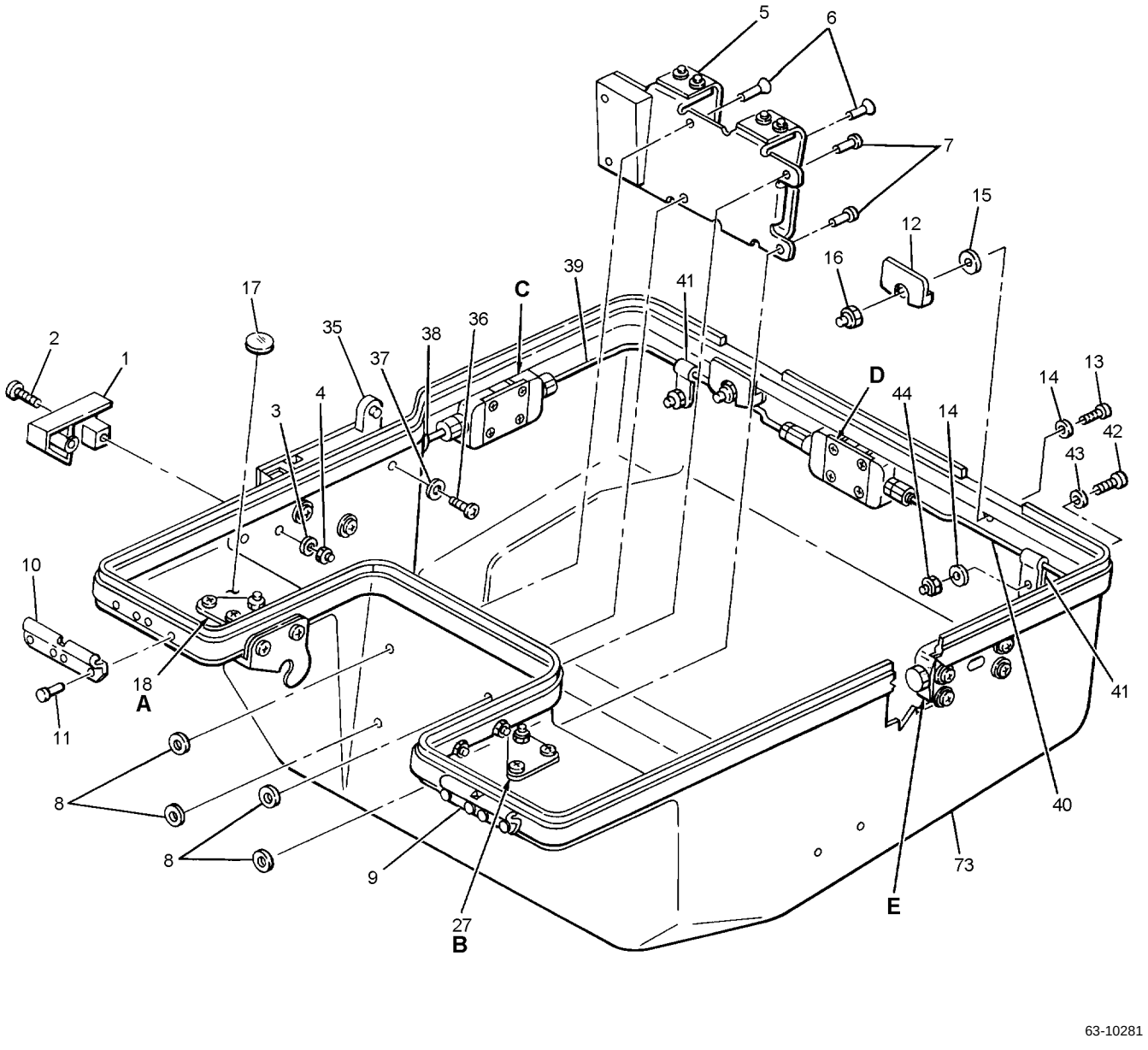


Figure 10-28. Lower Container Assembly (RSSK-8E) (Sheet 1 of 3)

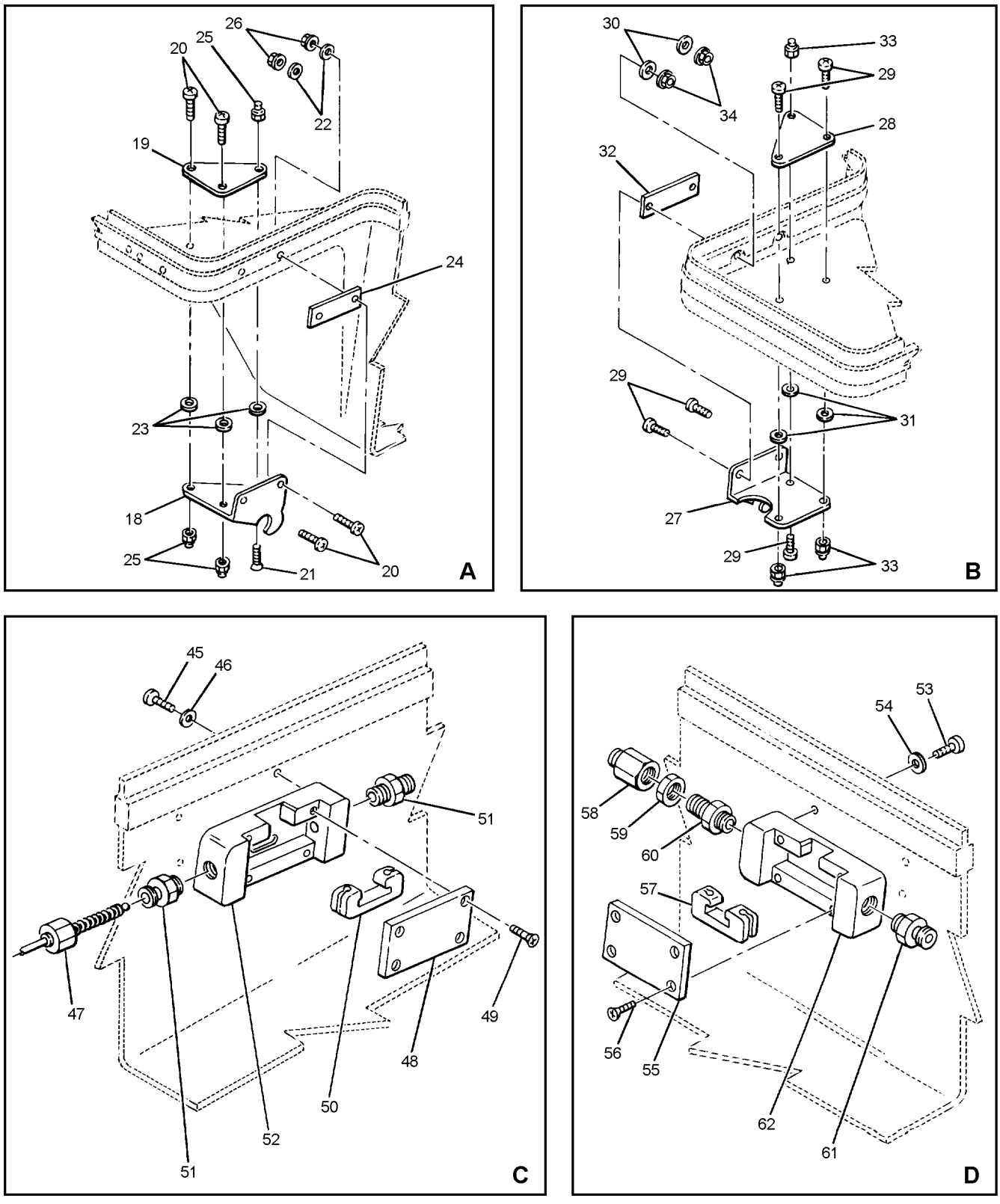
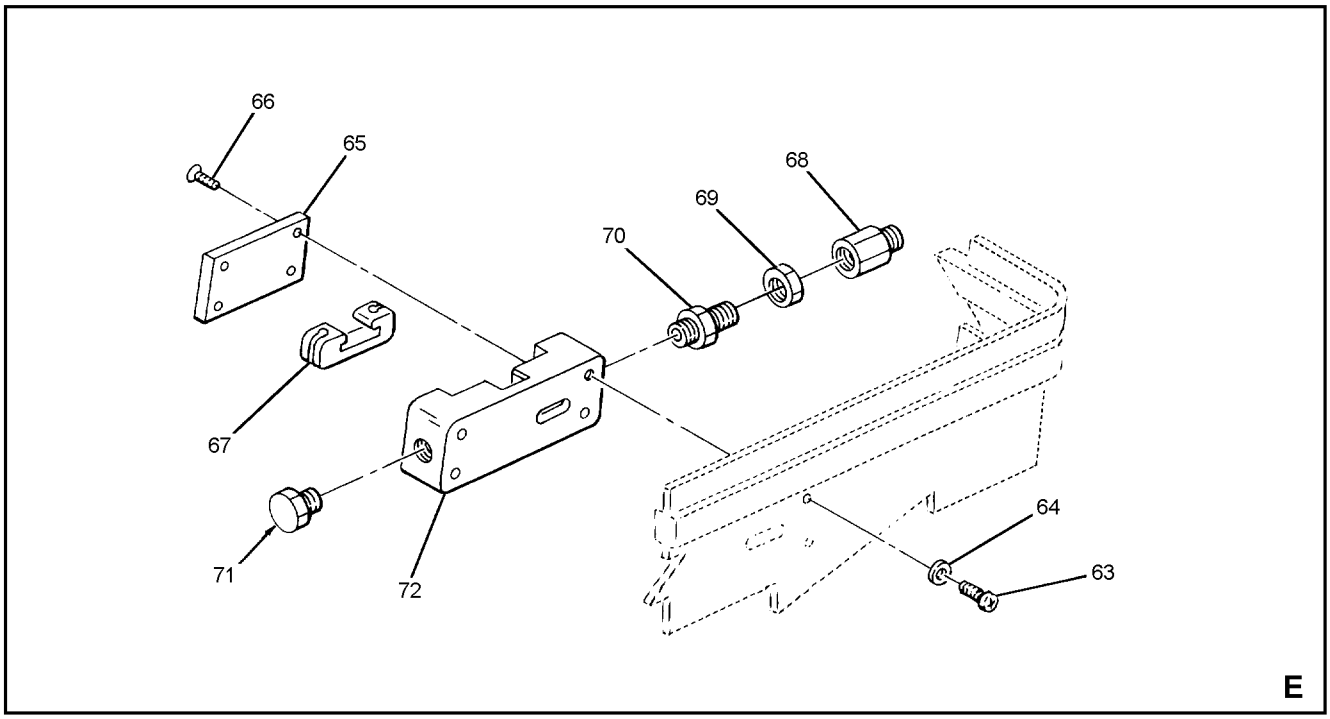


Figure 10-28. Lower Container Assembly (RSSK-8E) (Sheet 2 of 3)



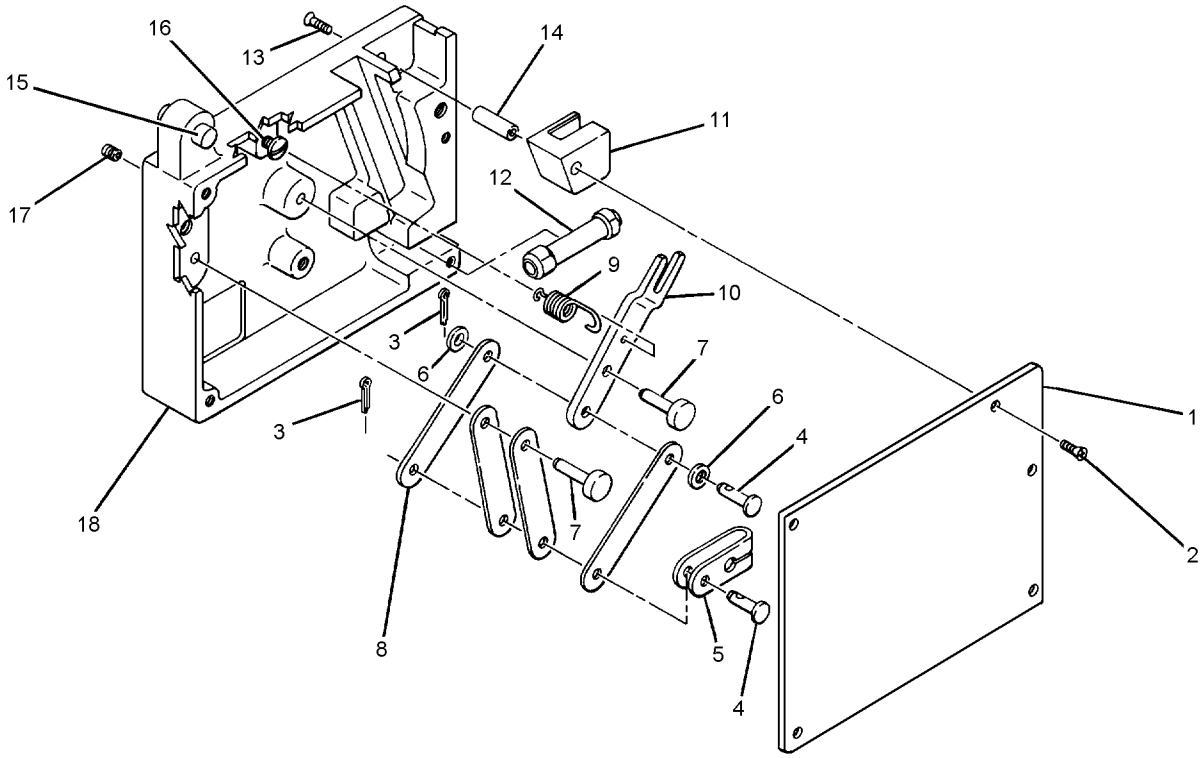
63-10283

Figure 10-28. Lower Container Assembly (RSSK-8E) (Sheet 3 of 3)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
10-28	102J400-5	CONTAINER ASSEMBLY, Lower (See figure 10-24 for NHA) (ATTACHING PARTS)	REF	
-1	234C450-11	. HANDLE PROTECTOR	1	
-2	MS51957-32	. SCREW, Panhead	2	
-3	AN960C6L	. WASHER, Flat	2	
-4	EW42008	. NUT ---*---	2	
-5	CL204D2-1	. RADIO BRACKET ASSEMBLY (80206)	1	
	102D450-1	. RADIO BRACKET ASSEMBLY (30941) (ATTACHING PARTS)	1	
-6	MS20426AD4-6	. RIVET, (0.125 dia x 0.375 lg)	2	
-7	MS20470AD4-6	. RIVET, (0.125 dia x 0.375 lg)	2	
-8	AN960C6	. WASHER, Flat ---*---	4	
-9	102D125-13	. HINGE, Container LH	1	
-10	102D125-17	. HINGE, Container RH (ATTACHING PARTS FOR INDEX NOS. 9 AND 10)	1	
-11	MS20470AD3-8	. RIVET (0.094 dia x 0.500 lg) ---*---	4	
-12	234C431-11	. CLIP (ATTACHING PARTS)	2	
-13	MS51958-64	. SCREW, Panhead	1	
-14	AN960C10L	. WASHER, Flat	2	
-15	224B432-11	. SPACER	1	
-16	EW42001	. NUT, Cap (10-32) ---*---	1	
-17	102C406-11	. PAD (Note)	1	
-18	234D410-13	. BRACKET, Guide RH	1	
-19	102C401-15	. BRACKET, Guide bracket (ATTACHING PARTS FOR INDEX NOS. 18 AND 19)	1	
-20	MS51958-64	. SCREW, Panhead (10-32 x 0.625 lg)	4	
-21	MS24693-C273	. SCREW, Flat head (10-32 x 0.625 lg)	1	
-22	AN960C10L	. WASHER, Flat	2	
-23	234C412-13	. WASHER, Laminated	3	
-24	234C412-11	. SHIM, Laminated	1	
-25	EW42001	. NUT, Cap (10-32)	3	
-26	MS21043-3	. NUT ---*---	2	
-27	234D410-11	. BRACKET, Guide LH	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
10-28-28	102C401-15	. BACKPLATE, Guide bracket	1	
		(ATTACHING PARTS FOR INDEX NOS. 27 AND 28)		
-29	MS51958-64	. SCREW, Panhead (10-32 x 0.625 lg)	5	
-30	AN960C10L	. WASHER, Flat	2	
-31	234C412-13	. WASHER, Laminated	3	
-32	234C412-11	. SHIM, Laminated	1	
-33	EW42001	. NUT, Cap (10-32)	3	
-34	MS21043-3	. NUT	2	
		---*---		
-35	102D580-1	. LID LOCK RELEASE ASSEMBLY	1	
		(See figure 10-22 for BKDN)		
		(ATTACHING PARTS)		
-36	MS51958-62	. SCREW, Panhead	3	
-37	AN960C10L	. WASHER, Flat	3	
		---*---		
-38	MS35489-31	. GROMMET	1	
-39	241D120-1	. CABLE ASSEMBLY, Right rear	1	
-40	241D110-1	. CABLE ASSEMBLY, Left rear	1	
		(ATTACHING PARTS FOR INDEX NOS. 39 AND 40)		
-41	MS25281-F2	. CLAMP, Plastic	2	
-42	MS51958-62	. SCREW, Panhead	2	
-43	AN960C10L	. WASHER, Flat	2	
-44	EW42001	. NUT, Cap (10-32)	2	
		---*---		
	102C540-1	. LOCK ASSEMBLY, Right	1	
		(ATTACHING PARTS)		
-45	MS51958-62	. SCREW, Panhead	4	
-46	AN960C10L	. WASHER, Flat	4	
		---*---		
-47	102C560-1	. . CABLE ASSEMBLY, Right	1	
-48	102C523-11	. . COVER	1	
		(ATTACHING PARTS)		
-49	MS24693-53	. . SCREW, Flathead (4-40 x 0.312 lg)	4	
		---*---		
-50	102C521-13	. . SLIDE	1	
-51	102C527-13	. . NIPPLE	2	
-52	102C519-1	. . HOUSING, Machined	1	
	102C545-1	. LOCK ASSEMBLY, Rear	1	
		(ATTACHING PARTS)		
-53	MS51958-62	. SCREW, Panhead	4	
-54	AN960C10L	. WASHER, Flat	4	
		---*---		

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
10-28-55	102C523-11	. . COVER	1	
		(ATTACHING PARTS)		
-56	MS24693-53	. . SCREW, Flat head (4-40 x 0.312 lg)	4	
		---*---		
-57	102C521-13	. . SLIDE	1	
-58	102C525-11	. . ADJUSTER	1	
-59	102C701-15	. . LOCKNUT	1	
-60	102C527-11	. . NIPPLE	1	
-61	102C527-13	. . NIPPLE	1	
-62	102C519-1	. . HOUSING, Machined	1	
	102C520-3	. LOCK ASSEMBLY, Left	1	
		(ATTACHING PARTS)		
-63	MS51958-62	. SCREW, Panhead	4	
-64	AN960C10L	. WASHER, Flat	4	
		---*---		
-65	102C523-11	. . COVER	1	
		(ATTACHING PARTS)		
-66	MS24693-53	. . SCREW, Flat head (4-40 x 0.312 lg)	4	
		---*---		
-67	102C521-13	. . SLIDE	1	
-68	102C525-11	. . ADJUSTER	1	
-69	102C701-15	. . LOCKNUT	1	
-70	102C527-11	. . NIPPLE	1	
-71	102C526-11	. . PLUG	1	
-72	102C519-1	. . HOUSING, Machined	1	
-73	102J422-11	. . CONTAINER, Machined	1	
	Notes: 1. Apply adhesive No. 460 to pad.			



63-543

Figure 10-29. Lid Lock Release Assembly (RSSK-8E)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
10-29	102D580-1	LID LOCK RELEASE ASSEMBLY . . . . . (See figure 10-28 for NHA)	REF	
-1	102C597-11	. COVER . . . . . (ATTACHING PARTS)	1	
-2	MS24693-53	. SCREW, Flat head (4-40) (Note 1)	5	
-3	MS24665-1011	. PIN, Cotter (0.312 lg)	2	
-4	MS9462-05	. PIN, Clevis	2	
-5	102C581-11	. CLEVIS	1	
-6	AN960-C6	. WASHER, Flat	2	
-7	102C596-11	. PIN, Pivot (0.312 dia x 0.60 lg)	2	
-8	102C582-11	. LINK TOGGLE	4	
-9	102C584-11	. SPRING, Toggle	1	
-10	102C583-13	. LEVER, Actuating	1	
-11	102C589-11	. GUIDE	1	
-12	102C595-11	. ADJUSTER	1	
	102C588-1	. HOUSING INSERT ASSEMBLY	1	
-13	MS24693-53	. . SCREW (4-40 x 0.312 lg) (Note 1)	1	
-14	102C594-11	. . STANDOFF	1	
-15	MS9390-421	. . PIN (dia 0.252 x 0.500 lg)	1	
-16	COML	. . SCREW (4-40 x 0.312 lg)	1	
-17	MS21209F1-15	. . HELICAL COIL (10-32 x 0.285 lg)	3	
-18	102D587-11	. . HOUSING, Machined lid lock release	1	
	Notes: 1. Loctite sealant grade A or equivalent.			

NUMERICAL INDEX

Part Number	Figure and Index Number	SM&R Code
AN515-4R5	10-20-53	PAGZZ
	10-20-59	
AN515-4R7	10-20-8	PAGZZ
	10-20-54	
	10-20-60	
AN515-4R8	10-20-55	PAGZZ
	10-20-61	
AN515C4R5	10-25-59	
AN515C4R7	10-25-6	
	10-25-60	
AN515C4R8	10-25-61	
AN815-4D	10-20-30	PAGZZ
	10-25-31	
AN924-4D	10-20-25	PAGZZ
	10-25-26	
AN924-5D	10-20-28	PAGZZ
	10-25-29	
AN932-S1	10-21-6	PAGZZ
	10-26-6	
AN937D4	10-20-34	PAGZZ
	10-25-35	
AN960C10L	10-25-7	
	10-25-15	
	10-25-21	
	10-25-38	
	10-25-85	
	10-28-14	
	10-28-22	
	10-28-30	
	10-28-37	
	10-28-43	
	10-28-46	
	10-28-54	
	10-28-64	
AN960C4L	10-25-8	
	10-25-53	
	10-25-62	
AN960C6	10-23-6	
	10-29-6	
	10-28-8	
AN960C6L	10-27-5	
	10-28-3	
AN960PD10L	10-20-9	PAGZZ
	10-20-20	
	10-20-37	
	10-22-22	
	10-22-30	
AN960PD10L	10-22-37	
	10-22-43	
	10-22-46	
	10-22-54	
	10-22-64	
AN960PD4L	10-20-10	PAGZZ
	10-20-56	
	10-20-62	
AN960PD6	10-22-8	PAGZZ
AN960PD6L	10-22-3	PAGZZ
AN960PD8L	10-20-79	PAGZZ
	10-22-14	PAGZZ
CC-101D2-1	10-20	AGGGG
CC-101D2-2	10-20	AGGGG
CC-101D2-3	10-20-88	PAGZZ
CC-101D2-4	10-20-88	PAGZZ
CL204D2-1	10-22-5	PAGZZ
	10-28-5	
CL223D2-1	10-20-58	
COML	10-20-46	
	10-23-16	
	10-29-16	
EW41004	10-25-47	XBGZZN
EW42001	10-24-6	XBGZZN
	10-24-14	
	10-25-9	
	10-25-16	
	10-25-23	
	10-25-88	
	10-28-16	
	10-28-25	
	10-28-33	
	10-28-44	
EW42004	10-25-91	XBGZZN
EW42008	10-28-4	
EW42010	10-25-79	XBGZZN
EW48001	10-27-25	XBGZZN
EW58001	10-25-49	XBGZZN
EW62002	10-21-14	
EW63001	10-21-9	
	10-26-9	
EW63003	10-25-32	
EW63004	10-20-32	
	10-25-33	
EW68001	10-21-8	
	10-26-8	
MIL-C-5040	10-19-16	

NUMERICAL INDEX (Cont)

Part Number	Figure and Index Number	SM&R Code
MIL-F-21840	10-20-57	
MS16625-4025	10-27-9	
MS171435	10-27-17	
MS18063-1	10-20-65	
	10-25-65	
MS20426AD4-6	10-22-6	PAGZZ
	10-28-6	
MS20470AD3-5	10-25-94	
MS20470AD3-8	10-20-40	PAGZZ
	10-20-42	
	10-22-11	
	10-25-41	
	10-25-43	
	10-28-11	
MS20470AD4-6	10-22-7	PAGZZ
	10-28-7	
MS20470A4-8	10-25-51	
MS20822-4C	10-27-6	
MS21042-04	10-20-12	PAGZZ
MS21042-3	10-20-22	PAGZZ
	10-22-26	
	10-22-34	
MS21043-04	10-25-10	
MS21043-3	10-25-22	
	10-28-26	
	10-28-34	
MS21104C24	10-25-2	
MS21104C4	10-25-13	
	10-25-18	
MS21209F1-15	10-23-17	PAGZZ
	10-29-17	
MS219DG24	10-20-2	PAGZZ
MS21919DG4	10-20-16	PAGZZ
	10-20-18	
MS22066-1	10-21-10	
	10-26-10	
MS24665-1011	10-23-3	PAGZZ
	10-29-3	
MS24665-1013	10-21-3	XBGZZ
	10-21-5	
	10-26-3	
	10-26-5	
MS24665-83	10-25-58	
MS24665-88	10-20-51	PAGZZ
MS24693-C272	10-22-21	
MS24693-C273	10-28-21	PAGZZ
MS24693-53	10-20-64	XAGZZ
	10-22-49	
	10-22-56	
	10-22-66	
	10-23-2	
	10-23-13	
	10-25-64	
	10-28-49	
	10-28-56	
	10-28-66	
	10-29-2	
	10-29-13	
MS25281-F2	10-22-41	PAGZZ
	10-28-41	
MS27039C1-09	10-25-20	
MS27983-2	10-20-44	
MS27983-3	10-20-45	
MS27983-3N	10-25-45	
MS27983-5N	10-25-46	
MS28774-014	10-21-12	PAGZZ
	10-26-12	
MS28775-117	10-27-27	
MS28778-2	10-27-8	
MS35206-232	10-22-2	
MS35206-244	10-19-14	PAGZZ
MS35206-246	10-22-13	
MS35207-262	10-19-6	PAGZZ
	10-22-36	
	10-22-42	
	10-22-45	
	10-22-53	
	10-22-63	
MS35207-264	10-20-19	PAGZZ
MS35207-265	10-20-7	
MS35207-266	10-20-6	PAGZZ
	10-20-7	
MS35207-267	10-20-5	PAGZZ
MS35333-77	10-20-24	PAGZZ
	10-25-25	
MS35333-78	10-20-27	PAGZZ
	10-25-28	
MS35338-136	10-27-4	
MS35489-31	10-28-38	
MS35490-25	10-22-38	PAGZZ
MS51957-26	10-27-3	
MS51957-32	10-28-2	
MS51957-45	10-20-76	PAGZZ
MS51958-62	10-24-5	
	10-24-13	
	10-28-36	

NUMERICAL INDEX (Cont)

Part Number	Figure and Index Number	SM&R Code
MS51958-62	10-28-42	
	10-28-45	
	10-28-53	
	10-28-63	
MS51958-63	10-20-36	PAGZZ
	10-20-77	
	10-25-77	
MS51958-64	10-20-78	PAGZZ
	10-22-20	
	10-22-29	
	10-25-14	
	10-25-19	
	10-25-37	
	10-25-84	
	10-28-13	
	10-28-20	
	10-28-29	
MS51958-65	10-25-5	
MS9068-012	10-20-33	PAGZZ
	10-25-34	
MS9068-014	10-21-13	PAGZZ
MS9164-066	10-20-67	
	10-25-67	
MS9390-421	10-23-15	PAGZZ
	10-29-15	
MS9462-05	10-23-4	PAGZZ
	10-29-4	
NAS1611-014	10-21-15	
	10-26-13	
NAS620-5L	10-20-47	PAGZZ
NAS620C5L	10-25-48	
NO. 850	10-19-24	XBGZZ
	10-24-20	
P103-673	10-20-32	
SS51338	10-20-48	PAGZZ
Z02RV04-4	10-20-32	
015-11365-1	10-20-83	PAOZZ
	10-25-81	
102A322-11	10-20-23	
	10-25-24	
102B242-11	10-25-92	
102B328-11	10-25-54	PAGZZ
102B334-11	10-25-55	PAGZZ
102B646-11	10-25-90	
102B648-11	10-25-76	XBGZZN
102B812-11	10-27-7	XBGZZ
102B814-11	10-27-12	PAGZZ
102B816-11	10-27-16	PAGZZ
102B817-11	10-27-13	PAGZZ
102B818-11	10-27-11	PAGZZ
102B819-11	10-27-10	PAGZZ
102B828-11	10-27-15	PAGZZ
102B833-11	10-21-16	
	10-26-14	
102C101-11	10-19-4	MDGZZ
	10-19-12	
	10-24-4	
	10-24-11	
102C101-13	10-20-74	MDGZZ
	10-25-78	
102C102-11	10-19-5	MDGZZ
	10-19-13	
	10-20-75	
	10-24-12	
102C201-11	10-20-89	MDGZZ
102C208-13	10-20-3	MDGZZ
102C208-15	10-20-4	MDGZZ
102C208-17	10-20-4	
	10-25-3	
102C208-19	10-20-4	
	10-25-4	
102C241-11	10-20-72	MDGZZ
102C241-12	10-20-73	MDGZZ
102C241-13	10-25-86	XBGZZ
102C241-14	10-25-87	XBGZZ
102C280-1	10-20-43	PAGZZ
	10-25-44	
102C281-11	10-25-93	MGGZZ
102C303-15	10-27-18	XBGZZ
120C321-11	10-21-7	PAGZZ
	10-26-7	
102C324-11	10-25-26	PAGZZ
	10-25-27	
102C325-1	10-20	AOGGG
	10-25	
102C329-11	10-20-29	MDGZZ
	10-25-30	
102C336-1	10-20-69	
	10-25-69	
102C353-1	10-20-14	MGGZZ
	10-25-11	
102C354-1	10-20-15	MGGZZ
	10-25-12	

NUMERICAL INDEX (Cont)

Part Number	Figure and Index Number	SM&R Code
102C355-1	10-20-17	MGGZZ
	10-25-17	
102C363-1	10-20-50	PAOZZ
	10-25-57	
102C364-3	10-20-49	
	10-25-56	
102C365-1	10-20	AGGGG
102C365-3	10-20	
	10-25	
102C383-11	10-21-10	PAGZZ
	10-26-10	
102C388-11	10-20-66	
	10-25-66	
102C389-11	10-20-63	
	10-25-63	
102C391-11	10-20-68	
	10-25-68	
102C395-3	10-20-70	
	10-25-70	
102C401-15	10-22-19	PAGZZ
	10-22-28	
	10-28-19	
	10-28-28	
102C406-11	10-22-17	MGGZZ
	10-28-17	
102C519-1	10-22-52	PAGZZ
	10-22-62	
	10-22-72	
	10-28-52	
	10-28-62	
	10-28-72	
102C520-1	10-22	AGGGG
102C520-3	10-28	
102C521-13	10-22-50	PAGZZ
	10-22-57	
	10-22-67	
	10-28-50	
	10-28-57	
	10-28-67	
102C523-11	10-22-48	MGGZZ
	10-22-55	
	10-22-65	
	10-28-48	
	10-28-55	
	10-28-65	
102C525-11	10-22-58	
	10-22-68	
	10-28-58	
	10-28-68	
102C526-11	10-22-71	PAGZZ
	10-28-71	
102C527-11	10-22-60	
	10-22-70	
	10-28-60	
	10-28-70	
102C527-13	10-22-51	PAGZZ
	10-22-61	
	10-28-51	
	10-28-61	
102C540-1	10-22	AGGGG
	10-28	
102C545-1	10-22	
	10-28	
102C560-1	10-22-47	PAGZZ
	10-28-47	
102C581-11	10-23-5	PAGZZ
	10-29-5	
102C582-11	10-23-8	MDGZZ
	10-29-8	
102C583-13	10-23-10	
	10-29-10	
102C584-11	10-23-9	PAGZZ
	10-29-9	
102C588-1	10-23	XAGGG
	10-29	
102C589-11	10-23-11	MDGZZ
	10-29-11	
102C594-11	10-23-14	MGGZZ
	10-29-14	
102C595-11	10-23-12	PAGZZ
	10-29-12	
102C596-11	10-23-7	MDGZZ
	10-29-7	
102C597-11	10-23-1	MGGZZ
	10-29-1	
102C621-1	10-19-9	
	10-24-8	
102C645-11	10-20-82	PAGZZ
102C646-11	10-20-85	PAGZZ
102C647-13	10-25-89	PAGZZ
102C701-15	10-22-59	
	10-22-69	
	10-28-59	
	10-28-69	

NUMERICAL INDEX (Cont)

Part Number	Figure and Index Number	SM&R Code
102C702-11	10-21-2	PAGZZ
	10-21-4	
	10-26-2	
	10-26-4	
102C815-11	10-27-14	XBGZZ
102C821-11	10-27-26	XBGZZ
102C824-11	10-27-24	
102D125-1	10-20-39	PAGZZ
102D125-1	10-25-40	
102D125-3	10-20-41	PAGZZ
	10-25-42	
102D125-13	10-22-9	PAGZZ
	10-28-9	
102D125-17	10-22-10	PAGZZ
	10-28-10	
102D300-1	10-20-1	AGGGG
	10-21	
102D300-3	10-20-1	
	10-21	
102D300-5	10-25-1	AGGGG
	10-25	
102D310-1	10-21-1	PAGZZ
102D319-11	10-21-11	PAGZZ
102D319-13	10-21-11	
	10-26-11	
102D330-1	10-21-17	PAGZZ
102D370-1	10-21	AGGGG
102D370-3	10-21	
	10-26	
102D390-1	10-20-52	PAGZZ
102D392-1	10-20	
	10-25	
102D393-11	10-20-71	
	10-25-71	
102D396-1	10-21-1	
102D450-1	10-22-5	
	10-28-5	
102D499-15	10-24-19	
102D499-17	10-19-20	MDGZZ
	10-24-17	
102D499-19	10-19-21	MDGZZ
102D499-23	10-19-22	MDGZZ
	10-24-19	
102D499-27	10-20-13	MDGZZ
102D499-29	10-21-16	
102D550-1	10-19-11	PAGZZ
102D550-3	10-19-11	
	10-24-10	
102D580-1	10-22-35	PAGGG
	10-23	
	10-28-35	
	10-29	
102D587-11	10-23-18	XAGZZ
	10-29-18	
102D601-1	10-19-3	
102D601-3	10-24-3	XAOZZ
102D610-11	10-19-10	
	10-24-9	
102D615-1	10-19-17	
102D615-3	10-24-15	PAGZZ
102D620-3	10-19	
102D620-5	10-24	PAGZZ
102D622-3	10-19-8	
102D622-5	10-24-7	
102D655-1	10-19-18	
102D670-1	10-19	PAGZZ
102D670-3	10-19	PAOZZ
	10-24	
102D680-1	10-20-88	
102D680-2	10-20-88	
102D680-7	10-20	
102D680-8	10-20	
102D832-1	10-21-17	
	10-26-15	
102J100-6	10-19	
102J100-7	10-24	PAOGG
102J200-1	10-19-1	AGGGG
	10-20	
102J200-3	10-19-1	AGGGG
	10-20	
102J200-9	10-24-1	XAGGG
	10-25	
102J222-11	10-20-90	PAGZZ
102J222-13	10-25-96	
102J400-1	10-19-25	AGGGG
	10-22	
102J400-5	10-24-21	
	10-28	
102J422-11	10-22-73	PAGZZ
	10-28-73	
102J650-1	10-19-2	
102J650-3	10-24-2	XAOZZ
1195AS101-1	10-22-19	PAGZZ
	10-22-28	

NUMERICAL INDEX (Cont)

Part Number	Figure and Index Number	SM&R Code
1195AS102-1	10-22-27	PAGZZ
1195AS103-1	10-22-18	PAGZZ
1195AS104-1	10-22-24	
	10-22-32	
1195AS105-1	10-22-23	
	10-22-31	
1195AS106-1	10-19-19	PAGZZ
1195AS107-1	10-22-12	PAGZZ
1195AS108-1	10-22-15	PAGZZ
1195AS109-1	10-20-35	PAGZZ
1195AS110-1	10-20-38	
1195AS111-1	10-20-38	
1195AS112-1	10-20-38	
1195AS113-1	10-22-1	PAGZZ
1195AS114-1	10-20-86	PAGZZ
1195AS115-1	10-20-87	
1195AS115-2	10-20-87	
1195AS116-1	10-19-23	
184C100-1	10-25-80	PAGZZ
	10-20-86	
204BS26-11	10-20-13	
204B201-11	10-20-89	
	10-25-95	
204C912-11	10-19-21	
	10-24-18	
217B221-11	10-25-74	PAGZZ
217B222-11	10-25-75	PAGZZ
217C223-11	10-25-82	PAGZZ
217C223-12	10-25-83	PAGZZ
217D227-1	10-25-72	PAGZZ
217D227-2	10-25-73	PAGZZ
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	10-20-11	
	10-20-21	
	10-20-81	
	10-22-25	
	10-22-33	
	10-22-44	
22K1-62	10-22-4	
22K1-82	10-19-15	PAGZZ
	10-20-80	
	10-22-16	
22K2-048	10-20-84	PAGZZ
221B710-11	10-25-50	MGGZZ
221B711-11	10-25-52	MGGZZ
224B432-11	10-22-15	
	10-28-15	
224C300-1	10-19-19	PAGZZ
	10-24-16	
230C535-13	10-20-35	PAGZZ
	10-25-36	
230C536-11	10-20-38	PAGZZ
230C536-13	10-20-38	
230C536-15	10-20-38	
230C536-11	10-25-39	
233B823-11	10-27-19	XBGZZ
233B826-11	10-27-1	MGGZZ
233B831-11	10-27-23	PAGZZ
233C820-11	10-27-22	XBGZZ
233C822-11	10-27-2	MDGZZ
233C829-11	10-27-20	XBGZZ
233C830-11	10-27-21	XBGZZ
233D810-1	10-26-1	PAGGG
	10-27	
233D811-11	10-27-28	XAGGG
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234C410-13	10-22-18	
234C412-11	10-22-24	PAGZZ
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	10-28-24	
	10-28-32	
234C412-13	10-22-23	PAGZZ
	10-22-31	
	10-28-23	
	10-28-31	
234C431-11	10-22-12	PAGZZ
	10-28-12	
234C450-11	10-22-1	PAGZZ
	10-28-1	
234C500-1	10-19-23	
234C600-1	10-20-87	
234C600-2	10-20-87	
234D410-11	10-28-27	PAGZZ
234D410-13	10-28-18	PAGZZ
241C110-1	10-22-40	
241C120-1	10-22-39	
241D110-1	10-28-40	
241D120-1	10-28-39	
3104AS100-1	10-20-31	PAGZZ
36D1321	10-19-10	
	10-24-9	
36H1323-31	10-19	PAOZZ
67A319D16-9	10-19-18	MGGZZ
68A77D4-1	10-19-17	PAOZZ
9120097-27	10-21-10A	PAGZZ
	10-26-10A	PAGZZ

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APPENDIX A

RESERVED

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APPENDIX B

TORQUING OF FLARED TUBE AND PIPE CONNECTIONS

Tightening of flared and pipe connections shall be accomplished in accordance with the best commercial practice. Torque wrenches shall be used, and the torque applied shall be within the limits specified in the following tables.

NOTE

Torque to specified minimum value and check for leakage. If additional torque is required to stop leakage, torque may be applied to specified maximum value.

Table B-1. Torque Requirements for Flared Tube Connections

Tubing O.D.	Minimum Torque	Maximum Torque
1/4 in.	50 inch-pounds	75 inch-pounds
5/16 in.	100 inch-pounds	125 inch-pounds
3/8 in.	200 inch-pounds	250 inch-pounds
1/2 in.	300 inch-pounds	400 inch-pounds
5/8 in.	400 inch-pounds	450 inch-pounds

Table B-2. Torque Requirements for Pipe Connections

Nominal Pipe Size	Minimum Torque	Maximum Torque
1/8 in.	40 inch-pounds	150 inch-pounds
1/4 in.	60 inch-pounds	200 inch-pounds
3/8 in.	100 inch-pounds	400 inch-pounds

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APPENDIX C

THE METRIC SYSTEM AND METRIC UNIT CONVERSION CHARTS

The Metric System simply and logically coordinates the measurements of length, area, volume, and mass into one decimalized system. United States currency, with its unexcelled convenience, was the first large scale national use of a decimal system. The ratio between the units of the series - dollars, dimes, cents, and mills - is ten. Additions and other numerical operations are simple. Calculations with metric units require no conversion from unit to unit, as for example between inches and feet or ounces and pounds.

In the Metric System there is one series of units for length, one for area, one for volume or capacity, and one for mass. (Refer to tables C-1, C-2 and C-3.)

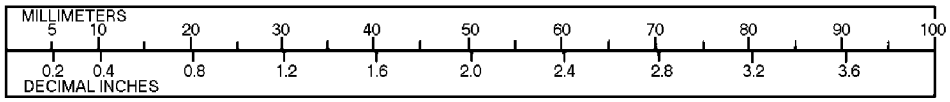
LENGTH - The common metric units of length are the millimeter (mm) for small dimensions, the centimeter (cm) for daily practical use, the meter (m) for expressing dimensions of larger objects and short distances and the kilometer (km) for longer distances. The centimeter is about four-tenths of an inch. The meter is about forty inches and the kilometer about six-tenths of a mile (figure C-1). When drawing to metric scale, engineering and product dimensions are in millimeters. Architectural drawings can be in millimeters or centimeters. On land surveys the unit is the meter. On maps the kilometer is the unit of measurement.

AREA - Small areas are usually measured in square centimeters (cm^2). In building and construction the square meter (m^2) is used and is about 20 percent larger than a square yard. The hectare (ha) is used for land surveys and is about 2.5 acres.

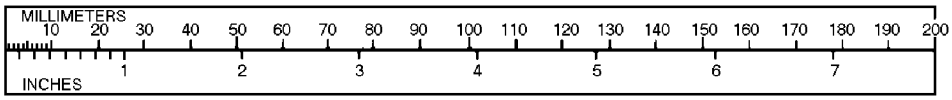
VOLUME - For volume the most convenient unit is the cubic decimeter (dm^3), referred to as the liter (l). The liter is slightly larger than the U.S. liquid quart but smaller than the U.S. dry quart and the British Imperial quart. The preferred unit for dispensing unit for dispensing drugs and for scientific work is the cubic centimeter (cm^3) or milliliter (ml) as it is also called. For measuring amounts of concrete and excavations the cubic meter (m^3) is used.

MASS - In pharmaceutical and scientific work the gram (g) is the most convenient unit. There are slightly less than 30 grams in one avoirdupois ounce. For most other uses the kilogram (kg) is convenient and is approximately 2.2 pounds. The metric ton (t), 1000 kg, is used for farm commodities, minerals, and large shipments. It is convenient that a liter of pure water at standard temperature and pressure has a mass of one kilogram (discrepancy less than one part in 10,000). This relationship makes it easy to determine the mass of any known volume of water, or of any other liquid if its specific gravity is known.

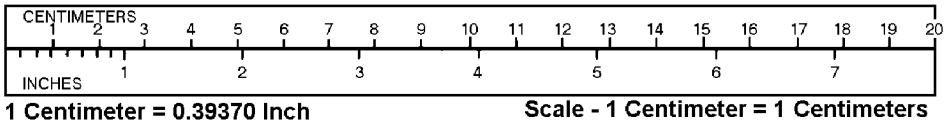
TEMPERATURE - All countries using the Metric System of weights and measures also use the Celsius (C) scale (formerly called centigrade) for ordinary measurement of temperature. On the Celsius scale pure water at standard atmospheric pressure freezes at 0° and boils at 100°. Normal human body temperature is 37°, while a comfortable room temperature is about 22°. The preferred temperature scale for engineering and physics is the kelvin (K) which has the same units as the Celsius and where the freezing point of pure water is 273.15°K.



1 Millimeter = 0.03937 Inch Scale - 1 Centimeter = 5 Millimeters

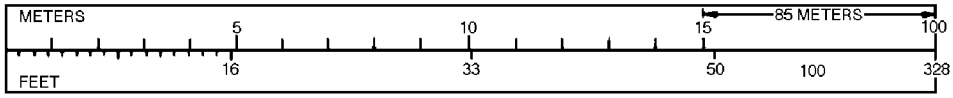


1 Inch = 25.4 Millimeters Scale - 1 Centimeter = 10 Millimeters



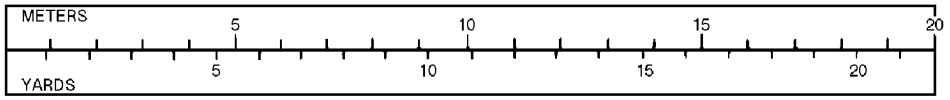
1 Centimeter = 0.39370 Inch Scale - 1 Centimeter = 1 Centimeters

1 Inch = 2.54 Centimeters

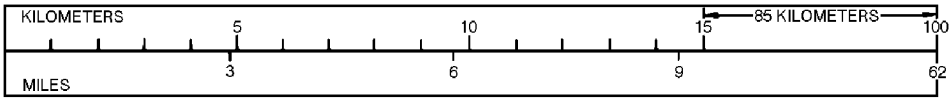


Scale - 1 Centimeter = 1 Meter 1 Foot = 0.3048 Meter

1 Meter = 3.28083 Feet (39.37 Inches - Act of Congress 1866)



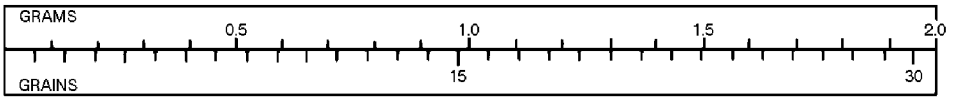
1 Meter = 1.09361 Yards 1 Yard = 0.9144 Meter Scale - 1 Centimeter = 1 Meter



1 Kilometer = 0.62137 Mile Scale - 1 Centimeter = 1 Kilometer

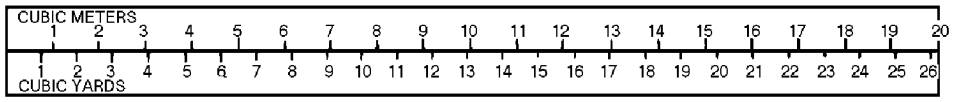
Mile = 1.6093 Kilometers

1 Cubic Centimeter = 0.061 Cubic Inch Scale - 1 Centimeter = 1 Cubic Centimeter



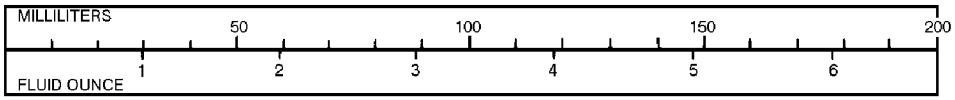
1 Gram = 15.4324 Grains Scale - 1 Centimeter = 0.1 Gram

Figure C-1. Reference Conversion Charts (Sheet 1 of 2)



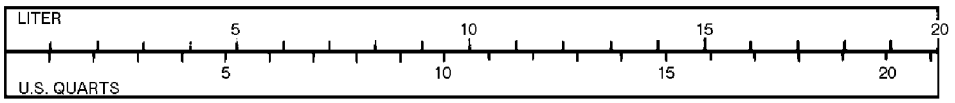
1 Cubic Meter = 1.30795 Cubic meter **Scale - 1 Centimeter = 1 Cubic Meter**

1 Cubic Yard = 0.76455 Cubic meter

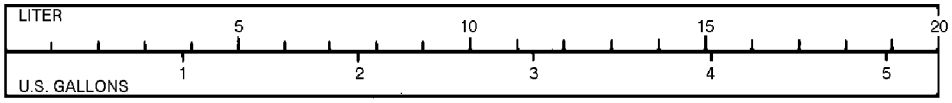


1 Milliliter = 0.03381 Fluid Ounce **Scale - 1 Centimeter = 10 Milliliter**

1 Fluid Ounce = 29.57 Milliliters



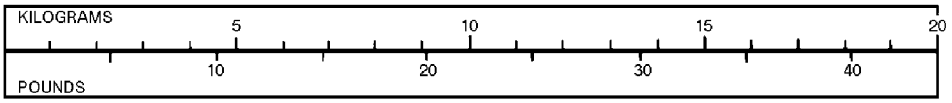
1 Liter = 1.0567 U.S. Quarts **1 U.S. Quart = 0.9463 Liter** **Scale - 1 Centimeter = 1 Liter**



1 Liter = 0.26418 U.S. Gallon **Scale - 1 Centimeter = 1 Liter**

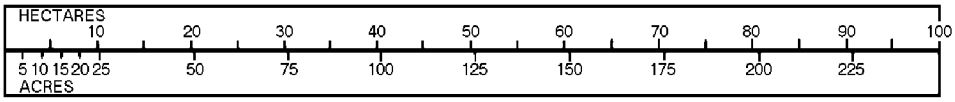
1 U.S. Gallon = 3.7853 Liters

1 Avoirdupois ounce = 28.3495 Grams **Scale - 1 Centimeter = 5 Grams**



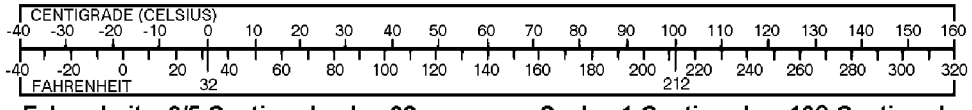
1 Kilogram = 2.2045 Pounds **Scale - 1 Centimeter = 1 Kilogram**

1 Pound = 0.45359 Kilogram



1 Hectare = 2.47105 Acres **Scale - 1 Centimeter = 5 Hectares**

1 Acres = 0.40489 Hectares **40 Acres = 16.19 Hectares**



Fahrenheit = 9/5 Centigrade plus 32 **Scale - 1 Centigrade = 10° Centigrade**

Centigrade = Fahrenheit minus 32 x 5/9

C-2A

Figure C-1. Reference Conversion Charts (Sheet 2 of 2)

Table C-1. Symbols and Relationships of Metric Units

Quantity	Unit (Note 1)	Symbol	Relationship of Units
Length	millimeter centimeter decimeter meter (Note 2) kilometer	mm cm dm m km	1 mm = 0.001 m 1 cm = 10 mm 1 dm = 10 cm 1 m = 100 cm 1 km = 1000 m
Area	square centimeter square decimeter square meter (Note 2) are hectare square kilometer	cm^2 dm^2 m^2 a ha km^2	1 cm^2 = 100 mm^2 1 dm^2 = 100 cm^2 1 m^2 = 100 dm^2 1 a = 100 m^2 1 ha = 100 a 1 km^2 = 100 ha
Volume	cubic centimeter millimeter cubic decimeter liter cubic meter (Note 2)	cm^3 ml dm^3 l m^3	1 cm^3 = 0.001 l 1 ml 1 dm^3 = 1000 ml 1 l 1 m^3 = 1000 l
Mass*	milligram gram kilogram (Note 2) metric ton	mg g kg t	1 mg = 0.001 g 1 g = 1000 mg 1 kg = 1000 g 1 t = 1000 kg

*Mass is the quantity of matter; whereas weight is a force, Earth's attraction for a given mass. Generally, the term mass is meant when we use weight.

Notes:
1. The three main units; meter liter and gram can be changed to more convenient sized units for specific purposes by means of several well known prefixes. Milli means 1/1000. Centi means 1/100. Deci means 1/10. Kilo means 1000. One merely learns the main units and the value of the most commonly used prefixes. The symbols for metric units are the same for single and plural amounts and are not followed by a period. Rates are usually shown by use of the slash as in m/s.
2. The underlined units in this table are basic or derived units of the International System of Units (SI).

Table C-2. International System of Units (SI)

Quantity	Unit	Symbol
Elemental units		
Length	meter	m
Mass	kilogram	kg
Time	second	s
Electric current	ampere	A
Temperature	degree Kelvin	°K
Luminous intensity	candela	cd
Supplementary units		
Plane angle	radian	rad
Solid angle	steradian	sr
Derived units		
Area	square meter	m^2
Volume	cubic meter	m^3
Frequency	hertz	Hz (s^{-1})
Density	kilogram per cubic meter	kg/m^3
Velocity	meter per second	m/s
Angular velocity	radian per second	rad/s
Acceleration	meter per second squared	m/s^2
Angular acceleration	radian per second squared	rad/s^2
Force	newton	N ($kg\ m/s^2$)
Pressure	newton per square meter	N/m^2
Kinematic viscosity	square meter per second	m^2/s
Dynamic viscosity	newton-second per square meter	$N\ s/m^2$
Work, energy, quantity of heat	joule	J (N m)
Power	watt	W (J/s)
Electric charge	coulomb	C (A s)
Voltage, potential difference, electrotive force	volt	V (W/A)
Electric field strength	volt per meter	V/m
Electric resistance	ohm	Ω (V/A)
Electric capacitance	farad	F (A s/V)
Magnetic flux	weber	Wb (V s)
Inductance	henry	H (V s/A)
Magnetic flux density	tesla	T (Wb/m^2)
Magnetic field strength	ampere per meter	A/m
Magnetomotive force	ampere	A
Luminous flux	lumen	lm (cd sr)
Luminance	candela per square meter	cd/m^2
Illumination	lux	lx (lm/m^2)

USE OF TABLES

Following are step by step directions for the solution to an example conversion problem. The example is: Convert 12 3/4 inches to centimeters.

1. Convert all fractions to decimals. (Refer to table C-3.)

   12 3/4 = 12.75

2. Refer to table C-4 and find the column for the unit which you have. This would be the column labeled “INCHES” in the “Length” table.

3. Locate the numeral 1 in the column labeled “INCHES.”

4. Locate the column labeled “CENTIMETERS.”

5. Read the number in the CENTIMETERS column that is in direct line with the numeral 1 located in the INCHES column.

   Read 2.540

6. Multiply the number of inches of this example by the conversion factor to obtain the number of centimeters.

   2.540 times 12.75 equals 32.385

7. Round off the answer to not over four significant figures (four numbers counting from the first non-zero number on the left. Fewer significant figures may be used depending on the accuracy of measurement and the tolerances allowed. For most work in this manual, centimeters would be expressed as three significant figures.

   12 3/4 inches = 32.4 centimeters

Table C-3. Fraction/Decimal/Millimeter Conversion Chart

Fractions	Dec Equiv	mm Equiv	Fractions	Dec Equiv	mm Equiv
1/64	0.01562	0.397	33/64	0.515625	13.097
1/32	0.03125	0.794	17/32	0.53125	13.494
3/64	0.04688	1.191	35/64	0.546875	13.891
1/16	0.0625	1.588	9/16	0.5625	14.288
5/64	0.078125	1.984	37/64	0.578125	14.684
3/32	0.09375	2.381	19/32	0.59375	15.081
7/64	0.109375	2.778	39/64	0.609375	15.478
1/8	0.125	3.175	5/8	0.625	15.875
9/64	0.140625	3.572	41/64	0.640625	16.272
5/32	0.15625	3.969	21/32	0.65625	16.669
11/64	0.171875	4.366	43/64	0.671875	17.066
3/16	0.1875	4.762	11/16	0.6875	17.462
13/64	0.203125	5.159	45/64	0.703125	17.859
7/32	0.21875	5.556	23/32	0.71875	18.256
15/64	0.234375	5.953	47/64	0.734375	18.653
1/4	0.25	6.350	3/4	0.75	19.050
17/64	0.265625	6.747	49/64	0.765625	19.447
9/32	0.28/125	7.144	25/32	0.78125	19.844
19/64	0.296875	7.541	51/64	0.796875	20.241
5/16	0.3125	7.938	13/16	0.8125	20.638
21/64	0.328125	8.334	53/64	0.828125	21.034
11/32	0.34375	8.731	27/32	0.84375	21.431
23/64	0.359375	9.128	55/64	0.859375	21.828
3/8	0.375	9.525	7/8	0.875	22.225
25/64	0.390625	9.922	57/64	0.890625	22.622
13/32	0.40625	10.319	29/32	0.90625	23.019
27/64	0.421875	10.716	59/64	0.921875	23.416
7/16	0.4375	11.112	15/16	0.9375	23.812
29/64	0.453125	11.509	61/64	0.953125	24.209
15/32	0.46875	11.906	31/32	0.96875	24.606
31/64	0.484375	12.303	63/64	0.984375	25.003
1/2	0.5	12.700	1	1.0	25.400

Length

Millimeters	Centimeters	Inches	Feet	Yards	Meters
1.0	0.1000	0.03937	0.003281	0.001094	0.001000
10.0	1.0	0.3937	0.03281	0.01094	0.01000
25.40	2.540	1.0	0.08333	0.02778	0.0254
304.8	30.48	12.0	1.0	0.3333	0.3048
914.4	91.44	36.0	3.000	1.0	0.9144
1000.0	100.0	39.37	3.281	1.094	1.0

Weight

Grams	Kilograms	Grains	Ounces Avoirdupois	Pounds Avoirdupois
1000.0	1.0	15,432.0	35.27	2.205
1.0	0.0010	15,432	0.03527	0.002205
0.06480	0.00006480	1.0	0.002286	0.0001429
28.35	0.02835	437.5	1.0	0.0625
453.6	0.4536	7,000.0	16.0	1.0

Velocity

Meters/Sec	Kilometers/Hr	Feet/Sec	Miles/Hr	Knots
1.0	3.600	3.281	2.237	1.944
0.2778	1.0	0.9113	0.6214	0.5400
0.3048	1.097	1.0	0.6818	0.5925
0.4470	1.609	1.467	1.0	0.8690
0.5144	1.852	1.688	1.1511	1.0

Pressure

Bars (Mega-baryes)	Kilograms/ square cm	Pounds/ square inch	Atmos-pheres	Columns of Mercury (0°C)		Columns of Water (15°C)		
				Meters	Inches	Meters	Inches	Feet
1.0	1.0197	14.50	0.9869	0.7501	29.53	10.21	401.8	33.49
0.9807	1.0	14.22	0.9678	0.7356	28.96	10.01	394.1	32.84
0.06895	0.07031	1.0	0.06805	0.05171	2.036	0.7037	27.70	2.309
1.0133	1.0332	14.70	1.0	0.7600	29.92	10.34	407.1	33.93
1.3332	1.3595	19.34	1.316	1.0	39.37	13.61	535.7	44.64
0.03386	0.03453	0.4912	0.03342	0.02540	1.0	0.3456	13.61	1.134
0.09798	0.09991	1.421	0.09670	0.07349	2.893	1.0	39.37	3.281
0.002489	0.002538	0.03609	0.002456	0.001867	0.0739	0.02540	1.0	0.08333
0.02986	0.03045	0.4331	0.02947	0.02240	0.8819	0.3048	12.0	1.0

Area

Square Meters	Square Centimeters	Square Inches	Square Feet	Square Yards
1.0	10,000.0	1,550.0	10.76	1.196
0.0001	1.0	0.1550	0.001076	0.0001196
0.0006452	6,452.0	1.0	0.006944	0.0007716
0.9290	929.0	144.0	1.0	0.1111
0.8361	8,361.0	1,296.0	9.0000	1.0

Volume

Cubic Inches	Cubic Feet	Cubic Yards	Gallons (U.S.)	Quarts (U.S.)	Liters (Cubic Decimeters)	Cubic Meters	Milliliters (Cubic Centimeters)
1.0	0.0005787	0.00002143	0.004329	0.01732	0.01639	0.00001639	16.39
1,728.0	1.0	0.03704	7.481	29.92	28.32	0.02832	28,320
46,656.0	27.0	1.0	202.2	807.9	764.6	0.7646	764,600
231.0	0.1337	0.004951	1.0	4.000	3.785	0.003785	3,785
57.75	0.03342	0.001238	0.2500	1.0	0.9464	0.0009464	946.4
61.02	0.03531	0.001308	0.2642	1.057	1.0	0.001	1,000
61020	353.1	1.308	264.2	1057	1000.0	1	1,000,000
0.06102	0.00003531	0.000001308	0.0002642	0.001057	0.001	0.000001	1

TO CONVERT	INTO	MULTIPLY BY
	A	
Abcoulomb	Statcoulombs	2.998×10^{10}
Acre	Sq. chain (Gunters)	10
Acre	Rods	160
Acre	Square links (Gunters)	1×10^{5}
Acre	Hectare or sq.hectometer	0.4047
acres	sq feet	43,560.0
acres	sq meters	4,047.
acres	sq miles	1.562×10^{-3}
acres	sq yards	4,840.
acre-feet	cu feet	43,560.0
acre-feet	gallons	3.259×10^{4}
amperes/sq cm	amps/sq in.	6.452
amperes/sq cm	amps/sq meter	10^{4}
amperes/sq in.	amps/sq cm	0.1550
amperes/sq in.	amps/sq meter	1,550.0
amperes/sq meter	amps/sq cm	10^{-4}
amperes/sq meter	amps/sq in.	6.452×10^{-4}
ampere-hours	coulombs	3,600.0
ampere-hours	faradays	0.03731
ampere-turns	gilberts	1.257
ampere turns/cm	amp-turns/in.	2.540
ampere-turns/cm	amp-turns/meter	100.0
ampere-turns/cm	gilberts/cm	1.257
ampere-turns/in.	amp-turns/cm	0.3937
ampere-turns/in.	amp-turns/meter	39.37
ampere-turns/in.	gilberts/cm	0.4950
ampere-turns/meter	amp/turns/cm	0.01
ampere-turns/meter	amp-turns/in.	0.0254
ampere-turns/meter	gilberts/cm	0.01257
Angstrom unit	Inch	3937×10^{-9}
Angstrom unit	Meter	1×10^{-10}
Angstrom unit	Micron or (Mu)	1×10^{-4}
Are	Acre (US)	0.02471
Ares	sq. yards	119.60
ares	acres	0.02471
ares	sq meters	100.0
Astronomical Unit	Kilometers	1.495×10^{8}
Atmospheres	Ton/sq. inch	0.007348
atmospheres	cms of mercury	76.0
atmospheres	ft of water (at 4°C)	33.90
atmospheres	in. of mercury (at 0°C)	29.92
atmospheres	kgs/sq cm	1.0333
atmospheres	kgs/sq meter	10,332
atmospheres	pounds/sq in.	14.70
atmospheres	tons/sq ft	1.058
	B	
Barrels (U.S., dry)	cu. inches	7056.0
Barrels (U.S., dry)	quarts (dry)	105.0
Barrels (U.S., liquid)	gallons	31.5
barrels (oil)	gallons (oil)	42.0
bars	atmospheres	0.9869
bars	dynes/sq cm	10^{4}
bars	kgs/sq meter	1.020×10^{4}
bars	pounds/sq ft	2,089.0
bars	pounds/sq in.	14.50
Baryl	Dyne/sq. cm.	1.000
Bolt (US Cloth)	Meters	36.576
BTU	Liter-Atmosphere	10.409

TO CONVERT	INTO	MULTIPLY BY
	B (Cont)	
Btu	ergs	1.0550×10^{10}
Btu	foot-lbs	778.3
Btu	gram-calories	252.0
Btu	horsepower-hrs	3.931×10^{-4}
Btu	joules	1,054.8
Btu	kilogram-calories	0.2520
Btu	kilogram-meters	107.5
Btu	kilowatt-hrs	2.928×10^{-4}
Btu/hr	foot-pounds/sec	0.2162
Btu/hr	gram-cal/sec	0.0700
Btu/hr	horsepower-hrs	3.929×10^{-4}
Btu/hr	watts	0.2931
Btu/min	foot-lbs/sec	12.96
Btu/min	horsepower	0.02356
Btu/min	kilowatts	0.01757
Btu/min	watts	17.57
Btu/sq ft/min	watts/sq in.	0.1221
Bucket (Br. dry)	Cubic Cm.	1.818×10^{4}
bushels	cu ft	1.2445
bushels	cu in.	2,150.4
bushels	cu meters	0.03524
bushels	liters	35.24
bushels	pecks	4.0
bushels	pints (dry)	64.0
bushels	quarts (dry)	32.0
	C	
Calories, gram(mean)	B.T.U. (mean)	3.9685×10^{-3}
Candle/sq. cm	Lamberts	3.142
Candle/sq. inch	Lamberts	0.4870
Centares (centiares)	sq meters	1.0
Centigrade	Fahrenheit	(C° X 9/5) + 32
centigrams	grams	0.01
Centiliter	Ounce fluid (US)	0.3382
Centiliter	Cubic inch	0.6103
Centiliter	drams	2.705
centiliters	liters	0.01
centimeters	feet	3.281×10^{-2}
centimeters	inches	0.3937
centimeters	kilometers	10^{-5}
centimeters	meters	0.01
centimeters	miles	6.214×10^{-8}
centimeters	millimeters	10.0
centimeters	mils	393.7
centimeters	yards	1.024×10^{-2}
centimeter-dynes	cm-grams	1.020×10^{-3}
centimeter-dynes	meter-kgs	1.020×10^{-8}
centimeter-dynes	pound-feet	7.376×10^{-8}
centimeter-grams	cm-dynes	980.7
centimeter-grams	meter-kgs	10^{-5}
centimeter-grams	pound-feet	7.233×10^{-5}
centimeters of mercury	atmospheres	0.01316
centimeters of mercury	feet of water	0.4461
centimeters of mercury	kgs/sq meter	136.0
centimeters of mercury	pounds/sq ft	27.85
centimeters of mercury	pounds/sq in.	0.1934
centimeters/sec	feet/min	1.1969
centimeters/sec	feet/sec	0.03281
centimeters/sec	kilometers/hr	0.036
centimeters/sec	knots	0.1943
centimeters/sec	meters/min	0.6

TO CONVERT	INTO	MULTIPLY BY
	C (Cont)	
centimeters/sec	miles/hr	0.02237
centimeters/sec	miles/min	3.728×10^{-4}
centimeters/sec/sec	feet/sec/sec	0.03281
centimeters/sec/sec	kms/hr/sec	0.036
centimeters/sec/sec	meters/sec/sec	0.01
centimeters/sec/sec	miles/hr/sec	0.02237
Chain	Inches	792.00
Chain	meters	20.12
Chains (surveyors' or Gunter's)	yards	22.00
circular mils	sq cms	5.067×10^{-6}
circular mils	sq mils	0.7854
Circumference	Radians	6.283
circular mils	sq inches	7.854×10^{-7}
Cords	cord feet	8
Cord feet	cu. feet	16
Coulomb	Statcoulombs	2.998×10^{9}
coulombs	faradays	1.036×10^{-5}
coulombs/sq cm	coulombs/sq in.	64.52
coulombs/sq cm	coulombs/sq meter	10^{4}
coulombs/sq in.	coulombs/sq cm	0.1550
coulombs/sq in.	coulombs/sq meter	1,550.0
coulombs/sq meter	coulombs/sq cm	10
coulombs/sq meter	coulombs/sq in.	6.452×10^{-4}
cubic centimeters	cu feet	3.531×10^{-5}
cubic centimeters	cu inches	0.06102
cubic centimeters	cu meters	10^{-6}
cubic centimeters	cu yards	1.308×10^{-6}
cubic centimeters	gallons (U.S. liq.)	2.642×10^{-4}
cubic centimeters	liters	0.001
cubic centimeters	pints (U.S. liq.)	2.113×10^{-3}
cubic centimeters	quarts (U.S. liq.)	1.057×10^{-3}
cubic feet	bushels (dry)	0.8036
cubic feet	cu cms	28,320.0
cubic feet	cu inches	1,728.0
cubic feet	cu meters	0.02832
cubic feet	cu yards	0.03704
cubic feet	gallons (U.S. liq.)	7.48052
cubic feet	liters	28.32
cubic feet	pints (U.S. liq.)	59.84
cubic feet	quarts (U.S. liq.)	29.92
cubic feet/min	cu cms/sec	472.0
cubic feet/min	gallons/sec	0.1247
cubic feet/min	liters/sec	0.4720
cubic feet/min	pounds of water/min	62.43
cubic feet/sec	million gals/day	0.646317
cubic feet/sec	gallons/min	448.831
cubic inches	cu cms	16.39
cubic inches	cu feet	5.787×10^{-4}
cubic inches	cu meters	1.639×10^{-5}
cubic inches	cu yards	2.143×10^{-5}
cubic inches	gallons	4.329×10^{-3}
cubic inches	liters	0.01639
cubic inches	mil-feet	1.061×10^{5}
cubic inches	pints(U.S. liq.)	0.03463
cubic inches	quarts(U.S. liq.)	0.01732
cubic meters	bushels (dry)	28.38
cubic meters	cu cms	10^{4}
cubic meters	cu feet	35.31
cubic meters	cu inches	61,023.0
cubic meters	cu yards	1.308
cubic meters	gallons (U.S. liq.)	264.2
cubic meters	liters	1,000.0
cubic meters	pints(U.S. liq.)	2,113.0
cubic meters	quarts (U.S. liq.)	1,057.0
cubic yards	cu cms	7.646×10^{5}
cubic yards	cu feet	27.0
cubic yards	cu inches	46,656.0
cubic yards	cu meters	0.7646
cubic yards	gallons (U.S. liq.)	202.0
cubic yards	liters	764.6
cubic yards	pints (U.S. liq.)	1,615.9
cubic yards	quarts (U.S. liq.)	807.9
cubic yards/min	cubic ft/sec	0.45
cubic yards/min	gallons/sec	3.367
cubic yards/min	liters/sec	12.74
	D	
Dalton	Gram	1.650×10^{-24}
days	seconds	86,400.0
decigrams	grams	0.1
deciliters	liters	0.1
decimeters	meters	0.1
degrees (angle)	quadrants	0.01111
degrees (angle)	radians	0.01745
degrees (angle)	seconds	3,600.0
degrees/sec	radians/sec	0.01745
degrees/sec	revolutions/min	0.1667
degrees/sec	revolutions/sec	2.778×10^{-3}
dekagrams	grams	10.0
dekaliters	liters	10.0
dekameters	meters	10.0
Drams (apothecaries' or troy)	ounces (avoirdupois)	0.1371429
Drams (apothecaries' or troy)	ounces (troy)	0.125
Drams (U.S., fluid or apoth.)	cubic cm.	3.6967
drams	grams	1.7718
drams	grains	27.3437
drams	ounces	0.0625
Dyne/cm	Erg/sq. millimeter	0.01
Dyne/sq. cm.	Atmospheres	9.869×10^{-7}
Dyne/sq. cm.	Inch of Mercury at 0°C	2.953×10^{-5}
Dyne/sq.cm.	Inch of Water at 4°C	4.015×10^{-4}
dynes	grams	1.020×10^{-3}
dynes	joules/cm	10^{-7}
dynes	joules/meter (newtons)	10^{-5}
dynes	kilograms	1.020×10^{-6}
dynes	poundals	7.233×10^{-5}
dynes	pounds	2.248×10^{-6}
dynes/sq cm	bars	10^{-6}
	E	
Ell	Cm.	114.30
Ell	Inches	45
Em, Pica	Inch	0.167
Em, Pica	Cm.	0.4233
Erg/sec	Dyne - cm/sec	1.000
ergs	Btu	9.480×10^{-11}
ergs	dyne-centimeters	1.0
ergs	foot-pounds	7.367×10^{-8}
ergs	gram-calories	0.2389×10^{-7}
ergs	gram-cms	1.020×10^{-3}
ergs	horsepower-hrs	3.7250×10^{-14}

TO CONVERT	INTO	MULTIPLY BY
	E (Cont)	
ergs	joules	10^{-7}
ergs	kg-calories	2.389×10^{-11}
ergs	kg-meters	1.020×10^{-8}
ergs	kilowatt-hrs	0.2778×10^{-13}
ergs	watt-hours	0.2778×10^{-18}
ergs/sec	Btu/min	5.688×10^{-6}
ergs/sec	ft-lbs/min	4.427×10^{-6}
ergs/sec	ft-lbs/sec	7.3756×10^{-8}
ergs/sec	horsepower	1.341×10^{-10}
ergs/sec	kg-calories/min	1.433×10^{-9}
ergs/sec	kilowatts	10^{-10}
	F	
farads	microfarads	10^{6}
Faraday/sec	Ampere (absolute)	9.6500×10^{4}
faradays	ampere-hours	26.80
faradays	coulombs	9.649×10^{4}
Fathom	Meter	1.828804
fathoms	feet	6.0
feet	centimeters	30.48
feet	kilometers	3.048×10^{-4}
feet	meters	0.3048
feet	miles (naut.)	1.645×10^{-4}
feet	miles (stat.)	1.894×10^{-4}
feet	millimeters	304.8
feet	mils	1.2×10^{4}
feet of water	atmospheres	0.02950
feet of water	in. of mercury	0.8826
feet of water	kgs/sq cm	0.03048
feet of water	kgs/sq meter	304.8
feet of water	pounds/sq ft	62.43
feet of water	pounds/sq in	0.4335
feet/min	cms/sec	0.5080
feet/min	feet/sec	0.01667
feet/min	kms/hr	0.01829
feet/min	meters/min	0.3048
feet/min	miles/hr	0.01136
feet/sec	cms/sec	30.48
feet/sec	kms/hr	1.097
feet/sec	knots	0.5921
feet/sec	meters/min	18.29
feet/sec	miles/hr	0.6818
feet/sec	miles/min	0.01136
feet/sec/sec	cms/sec/sec	30.48
feet/sec/sec	kms/hr/sec	1.097
feet/sec/sec	meters/sec/sec	0.3048
feet/sec/sec	miles/hr/sec	0.6818
feet/100 feet	per cent grade	1.0
Foot - candle	Lumen/sq. meter	10.764
foot-pounds	Btu	1.286×10^{-3}
foot-pounds	ergs	1.356×10^{7}
foot-pounds	gram-calories	0.3238
foot-pounds	hp-hrs	5.050×10^{-7}
foot-pounds	joules	1.356
foot-pounds	kg-calories	3.24×10^{-4}
foot-pounds	kg-meters	0.1383
foot-pounds	kilowatt-hrs	3.766×10^{-7}
foot-pounds/min	Btu/min	1.286×10^{-3}
foot-pounds/min	foot-pounds/sec	0.01667
foot-pounds/min	horsepower	3.030×10^{-5}
foot-pounds/min	kg-calories/min	3.24×10^{-4}
foot-pounds/min	kilowatts	2.260×10^{-5}

TO CONVERT	INTO	MULTIPLY BY
	F (Cont)	
foot-pounds/sec	Btu/hr	4.6263
foot-pounds/sec	Btu/min	0.07717
foot-pounds/sec	horsepower	1.818×10^{-3}
foot-pounds/sec	kg-calories/min	0.01945
foot-pounds/sec	kilowatts	1.356×10^{-3}
Furlongs	miles(U.S.)	0.125
furlongs	rods	40.0
furlongs	feet	660.0
	G	
gallons	cu cms	3,785.0
gallons	cu feet	0.1337
gallons	cu inches	231.0
gallons	cu meters	3.785×10^{-3}
gallons	cu yards	4.951×10^{-3}
gallons	liters	3.785
gallons (liq Br. Imp.)	gallons (U.S. liq)	1.20095
gallons (U.S.)	gallons (Imp.)	0.83267
gallons of water	pounds of water	8.3453
gallons/min	cu ft/sec	2.228×10^{-3}
gallons/min	liters/sec	0.06308
gallons/min	cu ft/hr	8.0208
gausses	lines/sq in.	6.452
gausses	webers/sq cm	10^{-8}
gausses	webers/sq in.	6.452×10^{-8}
gausses	webers/sq meter	10^{-4}
gilberts	ampere-turns	0.7958
gilberts/cm	amp-turns/cm	0.7958
gilberts/cm	amp-turns/in	2.021
gilberts/cm	amp-turns/meter	79.58
Gills (British)	cubic cm.	142.07
gills	liters	0.1183
gills	pints (liq.)	0.25
Grade	Radian	0.01571
Grains	drams (avoirdupois)	0.03657143
grains (troy)	grains (avdp)	1.0
grains (troy)	grams	0.06480
grains (troy)	ounces (avdp)	2.0833×10^{-3}
grains (troy)	pennyweight (troy)	0.04167
grains/U.S. gal	parts/million	17.118
grains/U.S. gal	pounds/million gal	142.86
grains/Imp. gal	parts/million	14.286
grams	dynes	980.7
grams	grains	15.43
grams	joules/cm	9.807×10^{-5}
grams	joules/meter (newtons)	$9,807 \times 10^{-3}$
grams	kilograms	0.001
grams	milligrams	1.000.0
grams	ounces (avdp)	0.03527
grams	ounces (troy)	0.03215
grams	poundals	0.07093
grams	pounds	2.205×10^{-3}
grams/cm	pounds/inch	5.600×10^{-3}
grams/cu cm	pounds/cu ft	62.43
grams/cu cm	pounds/cu in	0.03613
grams/cu cm	pounds/mil-foot	3.405×10^{-7}
grams/liter	grains/gal	58.417
grams/liter	pounds/1.000 gal	8.345
grams/liter	pounds/cu ft	0.062427
grams/liter	parts/million	1,000.0
grams/sq cm	pounds/sq ft	2.0481
gram-calories	Btu	3.9683×10^{-3}
gram-calories	ergs	4.1868×10^{7}

TO CONVERT	INTO	MULTIPLY BY
	G (Cont)	
gram-calories	foot-pounds	3.0880
gram-calories	horsepower-hrs	1.5596×10^{-6}
gram-calories	kilowatt-hrs	1.1630×10^{-6}
gram-calories	watt-hrs	1.1630×10^{-3}
grams-calories/sec	Btu/hr	14.286
gram-centimeters	Btu	9.297×10^{-8}
gram-centimeters	ergs	980.7
gram-centimeters	joules	9.807×10^{-5}
gram-centimeters	kg-cal	2.343×10^{-8}
gram-centimeters	kg-meters	10^{-5}
	H	
Hand	Cm.	10.16
hetacres	acres	2.471
hectares	sq feet	1.076×10^{5}
hectograms	grams	100.0
hectoliters	liters	100.0
hectometers	meters	100.0
hectowatts	watts	100.0
henries	millihenries	1,000.0
Hogsheads (British)	cubic ft.	10.114
Hogsheads (U.S.)	cubic ft.	8.42184
Hogsheads (U.S)	gallons (U.S.)	63
horsepower	Btu/min	42.44
horsepower	foot-lbs/min	33,000.0
horsepower	foot-lbs/sec	550.0
horsepower (metric) (542.5 ft lb/sec)	horsepower (550 ft lb/sec)	0.9863
horsepower (550 ft lb/sec)	horsepower (metric) (542.5 ft lb/sec)	1.014
horsepower	kg-calories/min	10.68
horsepower	kilowatts	0.7457
horsepower	watts	745.7
horsepower (boiler)	Btu/hr	33.479
horsepower (boiler)	kilowatts	9.803
horsepower-hrs	Btu	2,547.0
horsepower-hrs	ergs	2.6845×10^{13}
horsepower-hrs	foot-lbs	1.98×10^{4}
horsepower-hrs	gram-calories	641,190.0
horsepower-hrs	joules	2.684×10^{4}
horsepower-hrs	kg-calories	641.1
horsepower-hrs	kg-meters	2.737×10^{5}
horsepower-hrs	kilowatts-hrs	0.7457
hours	days	4.167×10^{-2}
hours	weeks	5.952×10^{-3}
Hundredweights (long)	pounds	112
Hundredweights (long)	tons (long)	0.05
Hundredweights (short)	ounces (avoirdupois)	1600
Hundredweights (short)	pounds	100
Hundredweights (short)	tons (metric)	0.0453592
Hundredweights (short)	tons (long)	0.0446429
	I	
inches	centimeters	2.540
inches	meters	2.540×10^{-2}
inches	miles	1.578×10^{-5}
inches	millimeters	25.40
inches	mils	1,000.0
inches	yards	2.778×10^{-2}
inches of mercury	atmospheres	0.03342
inches of mercury	feet of water	1.133
inches of mercury	kgs/sq cm	0303453

TO CONVERT	INTO	MULTIPLY BY
	I (Cont)	
inches of mercury	kgs sq meter	345.3
inches of mercury	pounds/sq ft	70.73
inches of mercury	pounds/sq in.	0.4912
inches of water (at 4°C)	atmospheres	2.458×10^{-3}
inches of water (at 4°C)	inches of mercury	0.07355
inches of water (at 4°C)	kgs/sq cm	2.540×10^{-3}
inches of water (at 4°C)	ounces/sq in.	0.5781
inches of water (at 4°C)	pounds/sq ft	5.204
inches of water (at 4°C)	pounds/sq in.	0.03613
International Ampere	Ampere (absolute)	0.9998
International Volt	Volts (absolute)	1.0003
International volt	Joules (absolute)	$1\text{-}593 \times 10^{-19}$
International volt	Joules	9.654×10^{4}
	J	
joules	Btu	9.480×10^{-4}
joules	ergs	10^{7}
joules	foot-pounds	0.7376
joules	kg calories	2.389×10^{-4}
joules	kg-meters	0.1020
joules	watt-hrs	2.778×10^{-4}
joules/cm	grams	1.020×10^{4}
joules/cm	dynes	10^{7}
joules/cm	joules/meter (newtons)	100.0
joules/cm	poundals	723.3
joules/cm	pounds	22.48
	K	
kilograms	dynes	980,665.0
kilograms	grams	1,000.0
kilograms	joules/cm	0.09807
kilograms	joules/meter (newtons)	9.807
kilograms	poundals	70.93
kilograms	pounds	2.205
kilograms	tons (long)	9.842×10^{-4}
kilograms	tons (short)	1.102×10^{-3}
kilograms/cu meter	grams/cu cm	0.001
kilograms/cu meter	pounds/cu ft	0.06243
kilograms/cu meter	pounds/cu in.	3.613×10^{-5}
kilograms/cu meter	pounds/mil-foot	3.405×10^{-10}
kilograms/meter	pounds/ft	0.6720
Kilogram/sq. cm.	Dynes	980,665
kilograms/sq cm	atmospheres	0.9678
kilograms/sq cm	feet of water	32.81
kilograms/sq cm	inches of mercury	28.96
kilograms/sq cm	pounds/sq ft	2,048.0
kilograms/sq cm	pounds/sq in.	14.22
kilograms/sq meter	atmospheres	9.678×10^{-5}
kilograms/sq meter	bars	98.07×10^{-6}
kilograms/sq meter	feet of water	3.281×10^{-3}
kilograms/sq meter	inches of mercury	2.896×10^{-3}
kilograms/sq meter	pounds/sq ft	0.2048
kilograms/sq meter	pounds/sq in.	1.422×10^{-3}
kilograms/sq mm	kgs/sq meter	10^{6}
kilogram-calories	Btu	3.968
kilogram-calories	foot-pounds	3,088
kilogram-calories	hp-hrs	1.560×10^{-3}
kilogram-calories	joules	4,186
kilogram-calories	kg-meters	426.9
kilogram-calories	kilojoules	4.186
kilogram-calories	kilowatt-hrs	1.163×10^{-3}
kilogram meters	Btu	9.294×10^{-3}

TO CONVERT	INTO	MULTIPLY BY
	K (Cont)	
kilogram meters	ergs	9.804×10^{7}
kilogram meters	foot-pounds	7.233
kilogram meters	joules	9.804
kilogram meters	kg-calories	2.342×10^{-3}
kilogram meters	kilowatt-hrs	2.723×10^{-6}
kilolines	maxwells	1,000.0
kiloliters	liters	1,000.0
kilometers	centimeters	10^{5}
kilometers	feet	3,281.0
kilometers	inches	3.937×10^{4}
kilometers	meters	1,000.0
kilometers	miles	0.6214
kilometers	millimeters	10^{6}
kilometers	yards	1,094.0
kilometers/hr	cms/sec	27.78
kilometers/hr	feet/min	54.68
kilometers/hr	feet/sec	0.9113
kilometers/hr	knots	0.5396
kilometers/hr	meters/min	16.67
kilometers/hr	miles/hr	0.6214
kilometers/hr/sec	cms/sec/sec	27.78
kilometers/hr/sec	ft/sec/sec	0.9113
kilometers/hr/sec	meters/sec/sec	0.2778
kilometers/hr/sec	miles/hr/sec	0.6214
kilowatts	Btu/min	56.92
kilowatts	foot-lbs/min	4.426×10^{4}
kilowatts	foot-lbs/sec	737.6
kilowatts	horsepower	1.341
kilowatts	kg-calories/min	14.34
kilowatts	watts	1,000.0
kilowatt-hrs	Btu	3,413.0
kilowatt-hrs	ergs	3.600×10^{13}
kilowatt-hrs	foot-lbs	2.655×10^{4}
kilowatt-hrs	gram-calories	859,850.0
kilowatt-hrs	horsepower-hrs	1.341
kilowatt-hrs	joules	3.6×10^{4}
kilowatt-hrs	kg-calories	860.5
kilowatt-hrs	kg-meters	3.671×10^{5}
kilowatt-hrs	pounds of water evaporated from and at 212°F	3.53
kilowatt-hrs	pounds of water raised from 62° to 212°F	22.75
knots	feet/hr	6,080.0
knots	kilometers/hr	1.8532
knots	nautical miles/hr	1.0
knots	statute miles/hr	1.151
knots	yards/hr	2,027.0
knots	feet/sec	1.689
	L	
league	miles(approx.)	3.0
Light year	Miles	5.9×10^{12}
Light year	Kilometers	9.46091×10^{12}
lines/sq cm	gausses	1.0
lines/sq in.	gausses	0.1550
lines/sq in.	webers/sq cm	1.550×10^{-9}
lines/sq in.	webers/sq in.	10^{-8}
lines/sq in.	webers/sq meter	1.550×10^{-5}
links (engineer's)	inches	12.0
links (surveyor's)	inches	7.92

TO CONVERT	INTO	MULTIPLY BY
	L (Cont)	
liters	bushels (U.S. dry)	0.02838
liters	cu cm	1,000.0
liters	cu inches	61.02
liters	cu meters	0.001
liters	cu yards	1.308×10^{-3}
liters	gallons (U.S. liq.)	0.2642
liters	pints (U.S. liq.)	2.113
liters	quarts (U.S. liq.)	1.057
liters/min	cu ft/sec	5.886×10^{-4}
liters/min	gals/sec	4.403×10^{-3}
lumens/sq ft	foot-candles	1.0
Lumen	Spherical candle power	0.07958
Lumen	Watt	0.001496
Lumen/sq. ft.	Lumen/sq. meter	10.76
lux	foot-candles	0.0929
	M	
maxwells	kilolines	0.001
maxwells	webers	10^{-3}
megalines	maxwells	10^{4}
megohms	microhms	10^{12}
megohms	ohms	10^{6}
meters	centimeters	100.0
meters	feet	3.281
meters	inches	39.37
meters	kilometers	0.001
meters	miles (stat.)	6.214×10^{-4}
meters	millimeters	1,000.0
meters	yards	1.094
meters	yards	1.179
meters/min	cms/sec	1.667
meters/min	feet/min	3.281
meters/min	feet/sec	0.05468
meters/min	kms/hr	0.06
meters/min	knots	0.03238
meters/min	miles/hr	0.03728
meters/sec	feet/min	196.8
meters/sec	feet/sec	3.281
meters/sec	kilometers/hr	3.6
meters/sec	kilometers/min	0.06
meters/sec	miles/hr	2.237
meters/sec	miles/min	0.03728
meters/sec/sec	cms/sec/sec	100.0
meters/sec/sec	ft/sec/sec	3.281
meters/sec/sec	kms/hr/sec	3.6
meters/sec/sec	miles/hr/sec	2.237
meter-kilograms	cm-dynes	9.807×10^{7}
meter-kilograms	cm-grams	10^{5}
meter-kilograms	pound-feet	7.233
microfarad	farads	10^{-6}
micrograms	grams	10^{-6}
microhms	megohms	10^{-12}
microhms	ohms	10^{-6}
microliters	liters	10^{-6}
Microns	meters	1×10^{-6}
miles (naut.)	feet	6,080.27
miles (naut.)	kilometers	1.853
miles (naut.)	meters	1,853.0
miles (naut.)	miles (statute)	1.1516
miles (naut.)	yards	2,027.0
miles (statute)	centimeters	1.609×10^{5}
miles (statute)	feet	5,280.0
miles (statute)	inches	6.336×10^{4}

TO CONVERT	INTO	MULTIPLY BY
	M (Cont)	
miles (statute)	kilometers	1.609
miles (statute)	meters	1,609.0
miles (statute)	miles (naut)	0.8684
miles (statute)	yards	1,760.0
miles/hr	cms/sec.	44.70
miles/hr	feet/min	88.0
miles/hr	feet/sec	1.467
miles/hr	kms/hr	1.609
miles/hr	kms/min	0.02682
miles/hr	kms/min	0.02682
miles/hr	knots	0.8684
miles/hr	meters/min	26.82
miles/hr	miles/min	0.1667
miles/hr/sec	cms/sec/sec	44.70
miles/hr/sec	feet/sec/sec	1.467
miles/hr/sec	kms/hr/sec	1.609
miles/hr/sec	meters/sec/sec	0.4470
miles/min	cms/sec	2,682.0
miles/min	feet/sec	88.0
miles/min	kms/minn	1.609
miles/min	knots/min	0.8684
miles/min	miles/hr	60.0
mil-feet	cu inches	9.425×10^{-6}
milliers	kilograms	1,000.0
Millimicrons	meters	1×10^{-9}
Milligrams	grains	0.01543236
milligrams	grams	0.001
milligrams/liter	parts/million	1.0
millihenries	henries	0.001
milliliters	liters	0.001
millimeters	centimeters	0.1
millimeters	feet	3.281×10^{-3}
millimeters	inches	0.03937
millimeters	kilometers	10^{-6}
millimeters	meters	0.001
millimeters	miles	6.214×10^{-7}
millimeters	mils	39.37
millimeters	yards	1.094×10^{-3}
million gals/day	cu ft/sec	1.54723
mils	centimeters	2.540×10^{-3}
mils	feet	8.333×10^{-5}
mils	inches	0.001
mils	kilometers	2.540×10^{-8}
mils	yards	2.778×10^{-5}
miner's inches	cu ft/min	1.5
Minims (British)	cubic cm.	0.059192
Minims (U.S., fluid)	cubic cm.	0.061612
minutes (angles)	degrees	0.01667
minutes (angles)	quadrants	1.852×10^{-4}
minutes (angles)	radians	2.909×10^{-4}
minutes (angles)	seconds	60.0
myriagrams	kilograms	10.0
myriameters	kilometers	10.0
myriawatts	kilowatts	10.0
	N	
nepers	decibels	8.686
Newton	Dynes	1×10^{5}
	O	
OHM (International)	OHM (absolute)	1.0005
ohms	megohms	10^{-6}
ohms	microhms	10^{6}
ounces	drams	16.0
ounces	grains	437.5
ounces	grams	28.349527
ounces	pounds	0.0625
ounces	ounces (troy)	0.9115
ounces	tons (long)	2.790×10^{-5}
ounces	tons (metric)	2.835×10^{-5}
ounces (fluid)	cu inches	1.805
ounces (fluid)	liters	0.02957
ounces (troy)	grains	480.0
ounces (troy)	grams	31.103481
ounces (troy)	ounces (avdp)	1.09714
ounces (troy)	pennyweights (troy)	20.0
ounces (troy)	pounds (troy)	0.08333
Ounce/sq. inch	Dynes/sq cm	0.4309
ounces/sq in.	pounds/sq in.	0.0625
	P	
Parsec	Miles	19×10^{12}
Parsec	Kilometers	3.084×10^{13}
part-/million	grains/U.S. gal	0.0584
parts/million	grains/Imp. gal	0.07016
parts/million	pounds/million gal	8.345
Pecks (British)	cubic inches	554.6
Pecks (British)	liters	9.091901
Pecks (U.S.)	bushels	0.25
Pecks (U.S.)	cubic inches	37.605
Pecks (U.S.)	liters	8.809582
Pecks (U.S.)	quarts (dry)	8
pennyweights (troy)	grains	24.0
pennyweights (troy)	ounces (troy)	0.05
pennyweights (troy)	grams	1.55517
pennyweights (troy)	pounds (troy)	4.1667×10^{-3}
pints (dry)	cu inches	33.60
pints (liq.)	cu cms.	473.2
pints (liq.)	cu feet	0.01671
pints (liq.)	cu inches	28.87
pints (liq.)	cu meters	4.732×10^{-4}
pints (liq.)	cu yards	6.189×10^{-4}
pints (liq.)	gallons	0.125
pints (liq.)	liters	0.4732
pints (liq.)	quarts (liq.)	0.5
Planck's quantum	Erg second	6.624×10^{-27}
Poise	Gram/cm. sec.	1.00
Pounds (avoirdupois)	ounces (troy)	14.5833
poundals	dynes	13,826.0
poundals	grams	14.10
poundals	joules/cm	1.383×10^{-3}
poundals	joules/meter (newtons)	0.1383
poundals	kilograms	0.01410
poundals	pounds	0.03108
pounds	drams	256.0
pounds	dynes	44.4823×10^{4}
pounds	grains	7,000.0
pounds	grams	453.5924
pounds	joules/cm	0.04448
pounds	joules/meter (newtons)	4.448
pounds	kilograms	0.4536
pounds	ounces	16.0
pounds	ounces (troy)	14.5833
pounds	poundals	32.17
pounds	pounds (troy)	1.21528

TO CONVERT	INTO	MULTIPLY BY
	P (Cont)	
pounds	tons (short)	0.0005
pounds (troy)	grains	5,760.0
pounds (troy)	grams	373.24177
pounds (troy)	ounces (avdp.)	13.1657
pounds (troy)	pennyweights (troy)	240.0
pounds (troy)	pounds (avdp.)	0.822857
pounds (troy)	tons (long)	3.6735×10^{-4}
pounds (troy)	tons (metric)	3.7324×10^{-4}
pounds (troy)	tons (short)	4.1143×10^{-4}
pounds of water	cu feet	0.01602
pounds of water	cu inches	27.68
pounds of water/min	cu ft/sec	2.670×10^{-4}
pound-feet	cm-dynes	1.356×10^{7}
pound-feet	cm-grams	13,825.0
pound-feet	meter-kgs	0.1383
pounds/cu ft	grams/cu cm	0.01602
pounds/cu ft	kgs/cu meter	16.02
pounds/cu ft	pounds/cu in.	5.787×10^{-4}
pounds/cu ft	pounds/mil-loot	5.456×10^{-9}
pounds/cu in.	gms/cu cm	27.68
pounds/cu in.	kgs/cu meter	2.768×10^{4}
pounds/cu in.	pounds/cu ft	1,728.0
pounds/cu in.	pounds/mil-foot	9.425×10^{-6}
pounds/ft	kgs-meter	1.488
pounds/in.	gms/cm	178.6
pounds/mil-foot	gms/cu cm	2.306×10^{6}
pounds/sq ft	atmospheres	4.725×10^{-4}
pounds/sq ft	feet of water	0.01602
pounds/sq ft	inches of mercury	0.01414
pounds/sq ft	kgs/sq meter	4.882
pounds/sq ft	pounds/sq in.	6.944×10^{-3}
pounds/sq. in.	atmospheres	0.06804
pounds/sq in.	feet of water	2.307
pounds/sq in.	inches of mercury	2.036
pounds/sq in.	kgs/sq meter	703.1
pounds/sq in.	pounds/sq ft	144.0
	Q	
quadrants (angle)	degrees	90.0
quadrants (angle)	minutes	5,400.0
quadrants (angle)	radians	1.571
quadrants (angle)	seconds	3.24×10^{5}
quarts (dry)	cu inches	67.20
quarts (liq.)	cu cms	946.4
quarts (liq)	cu feet	0.03342
quarts (liq.)	cu inches	57.75
quarts (liq.)	cu meters	9.464 X 10-4
quarts (liq.)	cu yards	1.238×10^{-3}
quarts (liq.)	gallons	0.25
quarts (liq.)	liters	0.9463
	R	
radians	degrees	57.30
radians	minutes	3,438.0
radians	quadrants	0.6366
radians	seconds	2.063×10^{5}
radians/sec	degrees/sec	57.30
radians/sec	revolutions/min	9.549
radians/sec	revolutions/sec	0.1592
radians/sec/sec	revs/min/min	573.0
radians/sec/sec	revs/min/sec	9.549
radians/sec/sec	revs/sec/sec	0.1592

TO CONVERT	INTO	MULTIPLY BY
	R (Cont)	
revolutions	degrees	360.0
revolutions	quadrants	4.0
revolutions	radians	6.283
revolutions/min	degrees/sec	6.0
revolutions/min	radians/sec	0.1047
revolutions/min	revs/sec	0.01667
revolutions/miri/min	radians/sec/sec	1.745×10^{-3}
revolutions/min/min	revs/min/sec	0.01667
revolutions/min/min	revs/sec/sec	2.778×10^{-4}
revolutions/sec	degrees/sec	360.0
revolutions/sec	radians/sec	6.283
revolutions/sec	revs/min	60.0
revolutions/sec/sec	radians/sec/sec	6.283
revolutions/sec/sec	revs/min/min	3,600.0
revolutions/sec/sec	revs/min/sec	60.0
Rod	Chain (Gunters)	0.25
Rod	Meters	5.029
Rods (Surveyors' meas.)	yards	5.5
rods	feet	16.5
	S	
Scruples	grains	20
seconds (angle)	degrees	2.778×10^{-4}
seconds (angle)	minutes	0.01667
seconds (angle)	quadrants	3.087×10^{-6}
seconds (angle)	radians	4.848×10^{-6}
Slug	Kilogram	14.59
Slug	Pounds	32.17
Sphere	Steradians	12.57
square centimeters	circular mils	1.973×10^{5}
square centimeters	sq feet	1.076×10^{-3}
square centimeters	sq inches	0.1550
square centimeters	sq meters	0.0001
square centimeters	sq miles	3.861×10^{-11}
square centimeters	sq millimeters	100.0
square centimeters	sq yards	1.196×10^{-4}
square feet	acres	2.296×10^{-5}
square feet	sq cms	929.0
square feet	sq inches	144.0
square feet	sq meters	0.09290
square feet	sq miles	3.587×10^{-6}
square feet	sq millimeters	9.290×10^{4}
square feet	sq yards	0.1111
square inches	circular mils	1.273×10^{6}
square inches	sq cms	6.452
square inches	sq feet	6.944×10^{-3}
square inches	sq millimeters	645.2
square inches	sq mils	10 6
square inches	sq yards	7.716×10^{-4}
square kilometers	acres	247.1
square kilometers	sq cms	10 10
square kilometers	sq ft	10.76×10^{6}
square kilometers	sq inches	1.550×10^{9}
square kilometers	sq meters	10^{6}
square kilometers	sq miles	0.3861
square kilometers	sq yards	1.196×10^{6}
square meters	acres	2.471×10^{-4}
square meters	sq cms	10^{4}
square meters	sq feet	10.76
square meters	sq inches	1,550.0
square meters	sq miles	3.861×10^{-7}
square meters	sq millimeters	10^{6}

TO CONVERT	INTO	MULTIPLY BY
	S (Cont)	
square meters	sq yards	1.196
square miles	acres	640.0
square miles	sq feet	27.88×10^{6}
square miles	sq kms	2.590
square miles	sq meters	2.590×10^{6}
square miles	sq yards	3.098×10^{6}
square millimeters	circular mils	1,973.0
square millimeters	sq cms	0.01
square millimeters	sq feet	1.076×10^{-5}
square millimeters	sq inches	1.550×10^{-3}
square mils	circular mils	1.273
square mils	sq cms	6.452×10^{6}
square mils	sq inches	10^{-6}
square yards	acres	2.066×10^{-4}
square yards	sq cms	8,361.0
square yards	sq feet	9.0
square yards	sq inches	1,296.0
square yards	sq meters	0.8361
square yards	sq miles	3.228×10^{-7}
square yards	sq millimeters	$8,361 \times 10^{5}$
	T	
temperature (°C) +273	absolute temperature (°C)	1.0
temperature (°C) +17.78	temperature (°F)	1.8
temperature (°F) +460	absolute temperature (°F)	1.0
temperature (°F)32	temperature (°C)	5/9
tons (long)	kilograms	1,016.0
tons (long)	pounds	2,240.0
tons (long)	tons (short)	1.120
tons (metric)	kilograms	1,000.0
tons (metric)	pounds	2,205.0
tons (short)	kilograms	907.1848
tons (short)	ounces	32,000.0
tons (short)	ounces (troy)	29,166.66
tons (short)	pounds	2,000.0
tons (short)	pounds (troy)	2,430.56
tons (short)	tons (long)	0.89287
tons (short)	tons (metric)	0.9078
tons (short)/sq ft	kgs/sq meter	9,765.0
tons (short)/sq ft	pounds/sq in.	2,000.0
tons of water/24 hrs	pounds of water/hr	83.333
tons of water/24 hrs	gallons/min	0.16643
tons of water/24 hrs	cu ft/hr	1.3349

TO CONVERT	INTO	MULTIPLY BY
	V	
Volt/inch	Volt/cm.	0.39370
Volt (absolute)	Statvolts	0.003336
	W	
watts	Btu/hr	3.4129
watts	Btu/min	0.05688
Watts	ergs/sec	107.0
watts	foot-lbs/min	44.27
watts	foot-lbs/sec	0.7378
watts	horsepower	1.341×10^{-3}
watts	horsepower (metric)	1.360×10^{-3}
watts	kg-calories/min	0.01433
watts	kilowatts	0.001
Watts (Abs.)	B.T.U. (mean)/min.	0.056884
Watts (Abs.)	joules/sec.	1
watt-hours	Btu	3.413
watt-hours	ergs	3.60×10^{10}
watt-hours	foot-pounds	2,656.0
watt-hours	gram-calories	859.85
watt-hours	horsepower-hrs	1.341×10^{-3}
watt-hours	kilogram-calories	0.8605
watt-hours	kilogram-meters	367.2
watt-hours	kilowatt-hrs	0.001
Watt (International)	Watt (absolute)	1.0002
webers	maxwells	10^{8}
webers	kilolines	10^{5}
webers/sq in.	gausses	1.550×10^{7}
webers/sq in.	lines/sq in.	10^{8}
webers/sq in	webers/sq cm	0.1550
webers/sq in.	webers/sq meter	1,550.0
webers/sq meter	gausses	10^{4}
webers/sq meter	lines/sq in.	6.452×10^{4}
webers/sq meter	webers/sq cm	10^{-4}
webers/sq meter	webers/sq in.	6.452×10^{-4}
	Y	
yards	centimeters	91.44
yards	kilometers	9.144×10^{-4}
yards	meters	0.9144×10^{-4}
yards	miles (naut.)	4.934×10^{-4}
yards	miles (stat.)	5.682×10^{-4}
yards	millimeters	914.4

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GLOSSARY

ABRASION. A fuzzy spot or area on cloth, usually caused by rubbing against another object.

ACCORDION-FOLDS. Folding a piece of equipment into S-shaped layers of predetermined size. Accordion folding produces a packaged assembly in the desired finished shape.

ACID. A fundamental chemical class distinguished by having reactive hydrogen radicals (pH below 7.0). Acids can be extremely corrosive to metal and damaging to fabric.

ACTUATION LANYARD, AUTOMATIC. A wire cable connecting the survival kit reducer assembly to an aircraft structure (usually the cockpit deck), automatically providing the aircrewman with emergency oxygen at seat ejection.

ACTUATION LANYARD, BEACON. A wire cable connecting the spring-loaded actuator indicator of the radio beacon to the cockpit deck. Upon seat ejection, the lanyard pulls free from the actuator indicator, automatically actuating the radio beacon.

ACTUATION LANYARD, MANUAL. A device installed on the survival kit providing the aircrewman with a means of actuating the emergency oxygen supply, should automatic actuation fail to occur.

ACTUATOR INDICATOR. A spring-loaded device installed as part of the radio beacon that allows for automatic actuation of the radio beacon at seat ejection.

AGE LIFE. Age life is the period of time that an item may be considered acceptable for service. Age life commences with the date of manufacture and terminates with the time period limitations imposed by the appropriate shelf/service life combinations.

AID, LIFERAFT PACKING. Aid to restrain liferaft in folded position until packed.

AIRCREWMAN. An aircraft crewmember. Passengers are not considered aircrewmen.

ALKALINE. A substance which is opposite to an acid; a base. Also, any substance which has the properties of an alkali (metallic hydroxide).

AMBIENT TEMPERATURE. When performing maintenance on survival kits, ambient temperature is considered to be the temperature of the surrounding atmosphere.

ANTI-SEIZE TAPE. A tape of any of several thin plastic-film materials (such as tetrafluorethylene) characterized by a waxy, oily texture, and used to prevent binding between mating surfaces of threaded parts when applied to the male threaded portion.

APPROX. Abbreviation for approximately.

A/R. Abbreviation for as required.

ASSEMBLY. A grouping of parts fitted together to form a complete unit.

ATMOSPHERIC PRESSURE. Pressure at sea level, expressed as 14.696 pounds per square inch, absolute, or 29.92 inches mercury column (barometer).

AWL. A pointed tool for piercing small holes in cloth, leather, wood and other soft materials.

BACKSTITCH. A stitch made by inserting the needle a stitch length behind and bringing it up a stitch length ahead of the last stitch. Also, sewing back over a row of stitches.

BALL, SWAGED. A steel ball that is press-fitted to a cable to ensure maximum strength and security.

BARTACK. A concentrated series of zig-zag like stitches used to reinforce points of stress.

BEACON, EMERGENCY RADIO. An automatically actuated transmitter, mounted in the survival kit, that emits an inaudible beacon signal to attract rescue aircraft to a downed survivor.

BEESWAX. A wax that is applied cold or melted to thread to prevent raveling or cloth unknotting and to make thread easier to sew.

BIGHT. A bend or loop that is formed in a line or lanyard to facilitate neat and orderly stowage.

BINDING. A piece of tape or fabric folded over and stitched to a raw edge of cloth to prevent raveling or fraying.

BITTER END. The extreme free end of a line or rope.

BLOCK ASSEMBLY, INTERMEDIATE. A device mounted on the aft left corner of certain survival kits, providing a mounting receptacle for the upper and lower block assemblies. Emergency oxygen flows to the aircrewman through the intermediate block assembly.

BLOCK ASSEMBLY, LOWER. The lower block assembly provides a quick-disconnect for connecting breathing oxygen, communications, anti-g pressure and ventilating air between the aircraft and survival kit. Emergency oxygen is actuated at ejection by the lower block separating from the intermediate block.

BLOCK ASSEMBLY, UPPER. The upper block assembly is connected to the upper surface of the intermediate block when installed on the survival kit. It is used to connect breathing oxygen, anti-g pressure, ventilating air and communications from the intermediate block to the aircrewman.

BOOT. A flat, fabric casing incorporating channels to provide for orderly stowage and protection of a dropline or lanyard.

BOXSTITCH. A rectangular stitch used to attach and reinforce.

C. Abbreviation for Celsius.

CAGE. Commercial and Government Entity (CAGE) is a five position all numeric code. CAGE codes are assigned to organizations (entities) that are manufacturers or maintain design control of items of supply procured and cataloged by agencies of the Federal government.

℄. Symbol for centerline.

CANVAS. A heavy, closely-woven cloth of linen, cotton or synthetic fabric.

CAUTION. Indicates danger to the equipment. The caution precedes the step or item to which it refers.

CLEVIS. A U-shaped metal fitting with a hole in each end to receive a pin or bolt.

CLIP. A device which fastens, holds together or retains.

CO_2. Abbreviation for carbon dioxide.

COMBUSTIBLE MATERIAL/SUBSTANCE. Any material or substance capable of burning in the presence of oxygen.

COML. Abbreviation for commercial. Refers to parts that are commercially available.

COMPONENT. An item of equipment making up pan of an assembly or subassembly.

COMPOSITE DISCONNECT. A device which connects all personal service leads between the survival kit and aircraft. On seat ejection, all connections can be broken at a single point.

CONDUIT. A thin, hollow, metal tube that serves to protect and guide a cable or wire.

CONE, LOCKING. A small, smooth, cone-shaped metal post sewn to the flaps of a container. The cone has a horizontally drilled hole a short distance from the top to admit a temporary locking pin or ripcord pin.

CONFIGURATION. The makeup, size, shape and relative location of parts of an item of equipment and its accessories. This includes the composition of materials as well as marking details. The configuration of each equipment is specified by Government drawings, military specifications and the modification instructions contained in this volume.

CONTAINER. An assembly that encloses and protects the liferaft, oxygen system and survival equipment until deployment is desired.

CONTRASTING COLOR. A color which stands out from its background.

COTTER, HAIRPIN. A looped pin that is inserted into the actuator indicator of the radio beacon to prevent premature actuation. When the pin is withdrawn (automatically or manually), the radio beacon is actuated.

COVER, RAFT. A fabric envelope that is tucked-in around the liferaft to prevent chafing and to facilitate closing the seat survival kit container.

CROSS BOX. A sewing pattern.

CUSHION, SEAT. A cloth-covered pad attached by snap fasteners to the upper surface of the seat survival kit to provide comfort for the aircrewman.

D-RING. A metal fitting shaped in the form of the letter "D."

DART. A stitched, tapering fold in a section of fabric. Used for shaping the fabric by gathering material to conform with a predetermined contour.

DETAIL PART. See COMPONENT.

DIA. Abbreviation for diameter.

DISC, ANTI-CHAFING. A circular piece of rubberized fabric installed between the liferaft and the metal inflation valve of the carbon dioxide cylinder to prevent damage to the liferaft.

DISCONNECT-QUICK. A method of attachment allowing separation of two components by a single, rapid motion or action.

DISPOSITION. Instructions on what is to be done with items which are obsolete, worn out or beyond repair.

DOFF. To remove or take off an item of clothing or equipment.

DON. To put on an item of clothing or equipment.

DOUBLE STITCH. Two parallel rows of stitches.

DOUBLE-W. A sewing pattern.

DROPLINE. A nylon lanyard connecting the upper and lower containers of the seat survival kit. The dropline incorporates provisions for attachment of the liferaft and survival equipment container. When deployment is desired, the aircrewman pulls the release handle. The lower container falls away, but remains attached to the upper container by the dropline. When the dropline is pulled tight, the liferaft is automatically inflated.

EGRESS. Outlet or means of getting out.

EJECTION SEAT. An emergency escape seat for propelling an occupant out and away from the aircraft by means of an explosive charge or rocket motor.

ELASTOMER. Any of various elastic substances resembling rubber.

EMERGENCY KIT, PARACHUTE. A Standard Soft Pack, High-Speed Soft Pack, Special Soft Pack or Rigid Seat Survival Kit containing a raft and survival equipment needed by an aircrewman in case of an emergency.

EQUIPMENT CONTAINER. A rectangular nylon bag used to store survival equipment within the seat survival kit. A slide fastener is provided for convenient access.

EXPLOSIVE MIXTURE. Any mixture of a combustible material or substance and oxygen capable of violent burning (detonation) either spontaneously or with the external application of heat.

EXTRUSION. A raised or grooved surface or edge.

F. Abbreviation for Fahrenheit.

FABRICATE. To make up or construct an item of equipment, accessory or material.

FAIRLEAD. Pulley, ring or hole used to guide a line, to prevent chafing or fouling, or to change its direction.

FAKE. To fold a line or lanyard in a back and forth fashion.

FASTENER, SLIDE. A type of fastener made of two lengths of tape with a series of metal or plastic scoops fastened to one side of each. A metal slide is provided which causes the scoops to mesh or lock in place as the fastener is closed, or to separate as the fastener is opened. Colloquial: ZIPPER.

FASTENER, SNAP. A metal fastener containing essentially a ball and a socket attached to opposed parts of a material and used to hold mating surfaces together.

FIBER. A natural or synthetic filament (as of wool, cotton, rayon, etc.) capable of being spun into yarn.

FID. A small, flat, hand tool of metal or wood used during the packing procedure to straighten and insert flaps into the container.

FITTING, QUICK-RELEASE. A device used to connect and release on instant response.

FITTING, SWAGE. A connection, adapter or pin which is fastened to a cable by pressure. lt is applied by means of a machine which compresses the fitting, causing it to tightly grip the cable or wire to which it is being attached.

FLAMMABLE MATERIAL. Any material capable of being easily ignited and of burning with extreme rapidity.

FLARING. The process of opening or widening, for example, the ends of oxygen tubing are often flared to ensure leak-tight connections to fittings.

FLUID. A gas, vapor or liquid.

FOLDER. A device used as an attachment to a sewing machine to guide and fold cloth.

FORM, GROUND/AIR EMERGENCY CODE. A form containing visual rescue signals. It is inserted in the equipment container of all seat survival kits.

FUNCTIONAL CHECK. A test which puts an item to use to determine if it operates properly.

GAGE. An instrument for measuring pressure.

GAUGE. A measurement of size or thickness.

GFE. Abbreviation for Government Furnished Equipment.

GROMMET. A metal eye and washer used to reinforce a hole in material.

GROMMET, HEAVING. A large hand-held rubber ring to which a nylon heaving line is tied by bowline knot. It's purpose is to carry the line a greater distance when thrown.

HARNESS. An arrangement of webbing straps used to attach a survival kit to the aircrewman.

HEATER, OXYGEN PURGING ELECTRIC. A device used in the purging process to heat the purging gas (nitrogen) before it enters the oxygen system.

HEAT EXCHANGER. An apparatus in which heat is exchanged from one fluid to another.

HEM. A border or reinforced edge formed by folding cloth back and securing it, usually by sewing.

HOOK TAPE. A strip of fabric tape with miniature hooks on one side. Hook tape is used together with pile tape as a fastener.

IN. Abbreviation for inches.

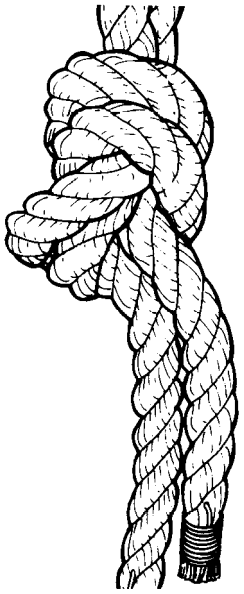
INFLATION ASSEMBLY. Inflation valve and carbon dioxide cylinder as a unit.

IN. H_2O. Abbreviation for inches of water column (27.68 IN. H_2O equals 1 PSI equals 2.036 IN. Hg).

IN. Hg. Abbreviation for inches of mercury column (0.07349 IN. Hg equals 1.0 IN. H_2O).

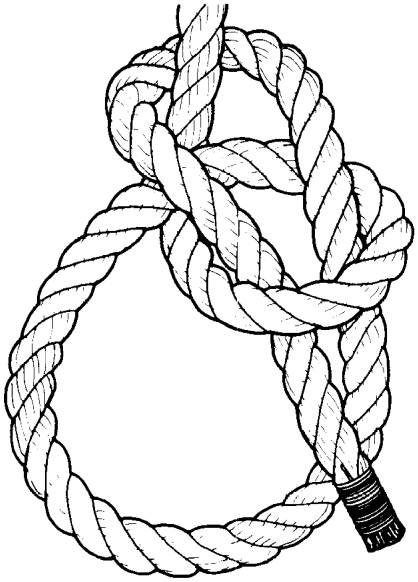
INSPECTION. A close examination for damage, wear and dirt. Also, a regularly scheduled examination of oxygen equipment and accessories.

KNOT, BINDER. The simplest method of joining two threads or lines. The two ends are placed side by side and a simple, overhand knot is then tied in both lines simultaneously. It will not slip when drawn tightly. Also called a thumb knot.



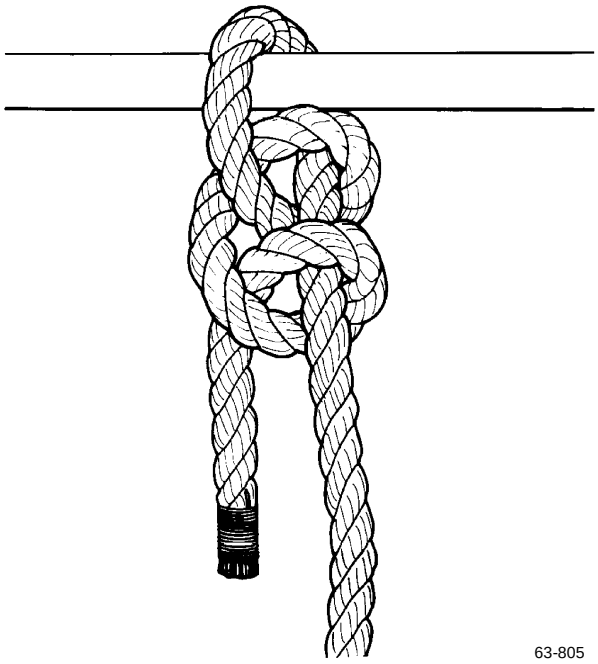
63-803

KNOT, BOWLINE. A knot formed by making a small overhand loop a desired distance from the end of the line. The end of the line is then passed through the loop from the underside of the main part of the line and back through the small part of the loop. When this knot is drawn tight, it will not slip but still can be easily untied.



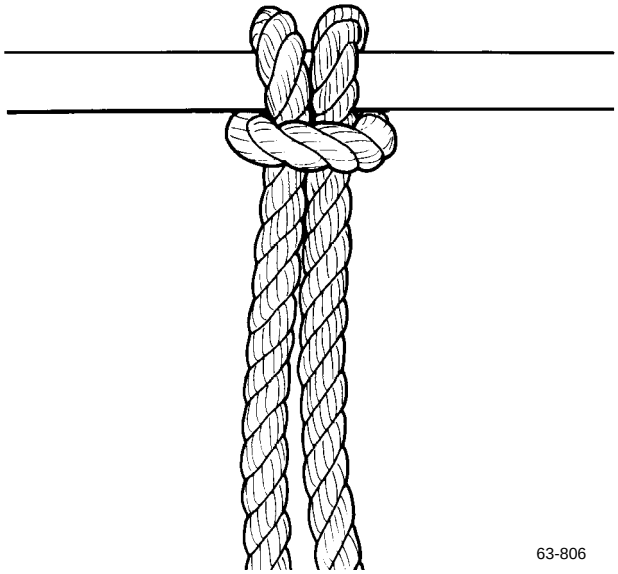
63-804

KNOT, HALF-HITCH. A knot formed by passing a cord or line around an object, then passing the free end around the main part of the cord and bringing the free end up through the loop thus formed.



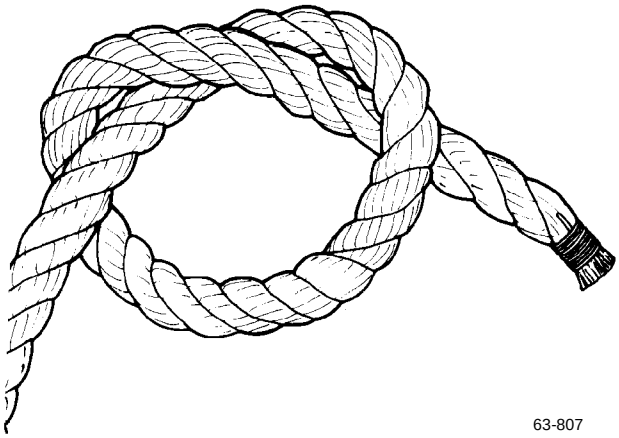
63-805

KNOT, LARK'S HEAD. A knot formed around an attachment ring or bar by passing the free ends of the line around the bar or through the ring and then through a loop or bight in the line.



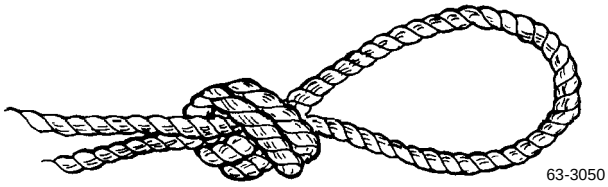
63-806

KNOT, OVERHAND. A simple knot tied in the end of a line by forming a loop and passing the end over and down through the loop.

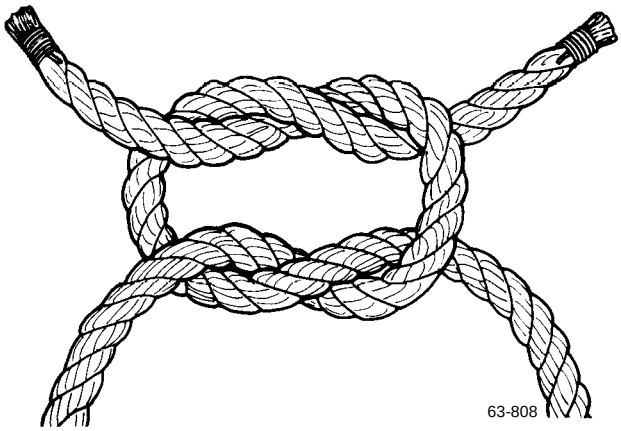


63-807

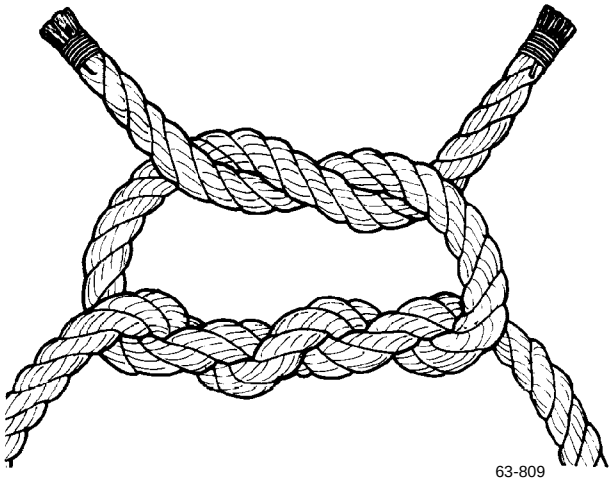
KNOT OVERHAND LOOP. Double the line forming a loop; then tie a simple overhand knot forming as large a loop as desired.



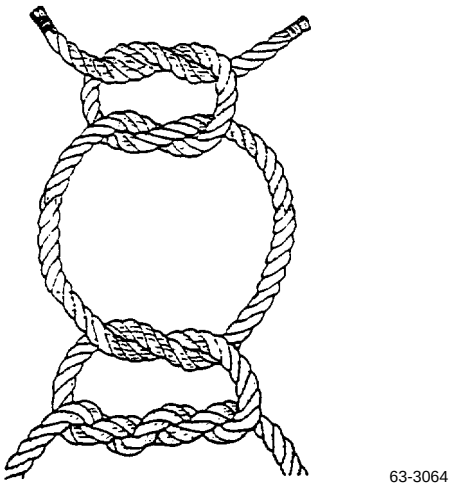
KNOT, SQUARE. A knot formed by passing the end of the cord in the left hand over and under the end in the right hand and then reversing the process by passing the end in the right hand over and under the end in the left hand.



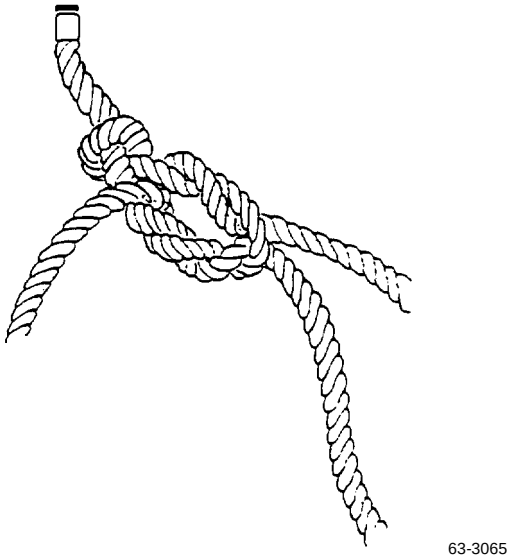
KNOT, SURGEON's. The surgeon's knot is similar to the square knot, except that the first overhand tie is wrapped twice around the cord or line.



KNOT, SURGEON's/KNOT, SQUARE. A combination of two standard knots formed exactly as the name suggests. Form the surgeon's knot first, then form a complete and separate square knot snugly against surgeon's knot.



KNOT, SURGEON's/KNOT, OVERHAND. A combination of two standard knots formed exactly as the name suggests. Form surgeon's knot near end of line then follow with overhand knot in end of line positioned snugly against surgeon's knot to ensure no slippage.



LAPBELT. Part of the restraint system attached to the seat survival kit. The lapbelt incorporates Koch fittings for attachment to the aircrewman's torso harness suit.

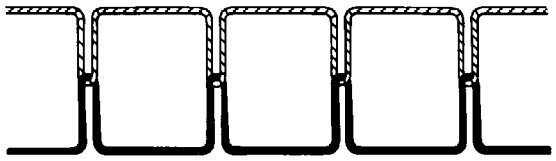
LAPBELT/BRAKE RIDER'S STRAP. A strap designed to secure the plane captain/ground servicing crewmember to the aircraft while it is being taxied.

LBS. Abbreviation for pounds.

LINE, RETAINING. A nylon lanyard connecting the liferaft to the aircrewman. The retaining line serves to prevent the aircrewman from becoming separated from, or loosing his liferaft.

LINE, VALVE ACTUATING. A nylon cord connecting the pull cable of the carbon dioxide inflation assembly to the dropline of the seat survival kit. This line is pulled tight before the dropline, thus actuating the carbon dioxide inflation assembly.

LOCKSTITCH. A common sewing-machine stitch formed when the thread in the needle goes through the material and connects with the bobbin thread. The needle and bobbin thread should lock in the center of the material thickness. (Ref. ASTM-D-6193, Type 301).



63-810

LOCKWIRE. A wire that prevents loosening of a securing device.

LOX. Abbreviation for liquid oxygen.

LPM. Abbreviation for liters per minute.

MANIFOLD. A pipe fitting with several lateral outlets for connecting one pipe with others.

MANUAL OXYGEN RELEASE. A device (usually a green ring) attached to the top of the seat survival kit which enables the aircrewman to actuate the emergency oxygen system should automatic actuation not occur.

MECHANISM, RELEASE. A device which when actuated, separates the upper and lower containers allowing the liferaft to deploy.

MILDEW. A damaging fungus or mold which forms on cloth or leather. It is caused by dampness and the absence of fresh air and sunlight.

MOUSING. A turn or lashing used across the open end of a hook to prevent the load carried from slipping off.

NAMEPLATE. A label attached to equipment, giving data as to type, model number, date of manufacture, part number, serial number, etc.

NEGATIVE G FITTING. Hardware installed on the seat survival kit to prevent movement of the kit in all flight conditions.

NEGATIVE G STRAP. Performs the same function as the negative G fitting, but incorporates nylon straps instead of hardware.

NHA. Abbreviation for next higher assembly.

NO. Abbreviation for number.

NOTE. An information item. A note may precede or follow the item or step to which it refers.

PACK. To put together compactly; to store neatly, for example, packing a survival kit consists of stowing the survival equipment in a container, folding and covering the raft, and inserting both into the kit container.

PARAFFIN. Wax generally used with 50 percent beeswax as a hot dip to prevent the fraying of cut ends of webbing, cord, thread or tape. See also BEESWAX.

PARARAFT. An emergency, one-man liferaft packed in a container, along with survival equipment. The pararaft is secured to the parachute pack or seat pan.

PILE TAPE. Strip of fabric tape with small nylon loops on one side. Used with hook tape as a fastener.

PIN, TEMPORARY LOCKING. A metal pin inserted through the eye of a locking cone to hold a flap in place until the ripcord pin is inserted.

PLD. Personnel Lowering Device. A device incorporated into some seat kits which enables an aircrewman to safely lower himself to the ground should his parachute become entangled in trees or heavy foliage.

PRESSURE. The force exerted by a liquid or gas per unit of area on the walls of the container. See also: PSIG, PSIA, and ATMOSPHERIC PRESSURE.

PRESSURE DROP. Loss in pressure, as from one end of a LOX line to the other, due to friction and other factors.

PRESSURE REDUCER. A device that changes high pressure (1800 psi) oxygen in the emergency oxygen cylinder of a seat kit to low pressure (40 to 80 psi) oxygen, suitable for breathing.

PSI. Abbreviation for pounds per square inch. See also: PSIA, and PSIG.

PSIA. Abbreviation for pounds per square inch, absolute. Absolute pressure is measured from absolute zero (100% vacuum), rather than from normal, or atmospheric pressure. It equals gage pressure plus 14.696 pounds per square inch. See also: PSI, PSIG and ATMOSPHERIC PRESSURE.

PSIG. Abbreviation for pounds per square inch, gage. Indicates pressure above ambient pressure, as indicated on a pressure gage vented to the atmosphere. See also: PSI and PSIA.

PULL-TEST, RELEASE HANDLE. A test conducted on the seat kit release handle to ensure the force required to release the handle does not exceed the maximum allowed.

PURGING. The process of eliminating undesirable particles and impurities from an oxygen system by forcing pure, heated nitrogen through the system in several stages.

PYROTECHNIC. Any device which either burns or explodes.

QUALIFIED PERSONNEL. Graduates of the Aircrew Survival Equipment School.

R. Abbreviation for radius.

RAVEL (UNRAVEL). To separate, untwist or unwind, leaving a frayed or ragged edge. RAVEL is the preferred word to describe such a condition.

REF. Abbreviation for reference.

REPAIRS, MAJOR. Repairs requiring special equipment, personnel or materials not normally available at intermediate level of maintenance.

REPAIRS, MINOR. Repairs that can be performed at organizational or intermediate levels of maintenance.

RIG. To assemble and adjust; to equip.

RSSK. Rigid Seat Survival Kit.

SAFETY TIE. Low strength thread which serves to inhibit accidental opening, discharge or separation.

SAFETY WIRE. Low strength wire which serves to inhibit premature opening, discharge or separation.

SCRAP. To discard, with proper authorization, items, parts or materials which are obsolete or no longer useable.

SEAM. A series of stitches joining two or more pieces of cloth.

SEAR. To melt or seal with heat, for example, to sear the end of nylon webbing one heats the end until the nylon melts and fuses. This prevents raveling.

SEAT PAN. A sponge rubber covered metal seat which is contoured for comfort to the user. A seat pan is used with seat-type parachutes and back-type parachutes when a packaged liferaft assembly is used. A high-speed seat pan has sections for support under the aircrewman's thighs during ejection. This reduces leg strain caused by high acceleration loads.

SECURITY. An item firmly, positively and safely attached in the authorized manner.

SHIM. A thin, often tapered slip of metal used to fill in a void space or to level a component or part.

SKID PAD. A thin, cork-like material bonded to the underside of some survival kits to prevent movement of the kit in ejection seat bucket.

SLPM. Standard Liters Per Minute.

SM&R CODES. Abbreviation for source, maintenance and recoverability codes. Comprised of three parts; a two-position source code, a three position maintenance code, and a one-position recoverability code. Refer to NAVSUPINST 4423.29 for further details.

STITCHES PER INCH. The number of needle penetrations where threads are interlaced, per linear inch.

STOWING. The act of putting away in a neat, orderly fashion.

STRAP, LAP RESTRAINT. A strap attached to the integrated torso harness suit to retain the rigid seat survival kit to the wearer. Prior to ejection it serves as a safety restraint for the aircrewman.

SURVEY. A formal process by which a seat survival kit or other accountable equipment is withdrawn from service or removed from records.

SWAGE. To attach a device to a cable by means of pressure. A swaging machine compresses a fitting, causing it to grip tightly to the cable to which it is being attached.

TACK. To attach temporarily prior to final sewing. Also, to tie temporarily as an aid in positioning. Also, to permanently secure portions of a seat survival kit assembly together.

TAMPER DOT. A mark applied to a screwhead or nut that will indicate if the fitting has loosened or gone out of adjustment since the last inspection.

TAPE. A narrow, woven ribbon of cotton, linen, nylon or other material.

TEMPLATE. A pattern or gage commonly in the form of a thin plate of cardboard, wood or metal. It is used as a guide in the layout or cutting of flat work.

TOGGLE RESET TOOL. A metal tool used to reset the toggle arm of the reducer assembly on most seat survival kits.

TORQUE. A force, or combination of forces, that tend to produce a rotating or twisting motion. Torque is often expressed in inch-pounds or foot-pounds. A torque wrench is used to apply a measured torque.

TORSO HARNESS SUIT. A combination of webbing and a torso suit which includes the parachute harness. lap belt, shoulder belt and life vest attachment fittings.

T-WRENCH. A special tool used for removing the threaded metal insert of a radio beacon before installation in the seat survival kit.

TYP. Abbreviation for typical.

UNRAVEL. See RAVEL.

VALVE, CHECK. A valve designed to allow the passage of a fluid in one direction only.

VALVE, FILLER. A one-way valve used to connect an external oxygen supply to the emergency oxygen cylinder of a seat survival kit for filling purposes.

VALVE, INFLATION. A valve attached to the carbon dioxide cylinder of the LR-1 liferaft. The valve directs the flow of carbon dioxide into the flotation tube of the liferaft.

VALVE, RELIEF. A valve designed to vent excess pressure to the atmosphere.

WARNING. Indicates danger to personnel. A warning precedes the item or step to which it refers.

WEBBING. A strong, narrow closely-woven tape of synthetic cotton or linen fiber designed for bearing weight.

WEBBING, TUBULAR. Strong synthetic or natural fiber webbing woven in the form of a tube.

X. Abbreviation for times or by; multiplication sign.

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ALPHABETICAL INDEX

Subject — Paragraph, Figure, Table Number

A

Accident Evaluation . . . 2-6A
Adjustments
  Actuating Cables of Emergency Oxygen Reducer/Manifold
    RSSK-1A Seat Survival Kit (Rocket Jet) . . . 7-74, F7-17, F7-18
  Automatic Reducer/Manifold Cable
    RSSK-1A Seat Survival Kit (East/West) . . . 7-75
  Emergency Oxygen Actuator Cable
    RSSK-8 Series Seat Survival Kit (East/West) . . . 10-F7-1
  Emergency Oxygen Actuator Cables (Rocket Jet)
    RSSK-8 Series Seat Survival Kit . . . 9-74
  Emergency Oxygen Actuator Cables (Scott)
    RSSK-8 Series Seat Survival Kit . . . 9-73, F9-13
  Lock Assemblies
    RSSK-1 Seat Survival Kit . . . 7-73
    RSSK-1A Seat Survival Kit . . . 7-73
    RSSK-8 Series Seat Survival Kit (East/West) . . . 10-F6-9
    RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-70, F9-10, F9-11
  Oxygen Relief Valve
    RSSK-1 Seat Survival Kit . . . 7-78, F7-19
    RSSK-1A Seat Survival Kit . . . 7-78, F7-19
    RSSK-3 Seat Survival Kit . . . 8-63, F8-13
    RSSK-8 Series Seat Survival Kit (East/West) . . . 10-70, F10-14
    RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-71, F9-12
  Pressure Reducer
    RSSK-8E Seat Survival Kit (East/West) . . . 10-68, F10-13
  Pressure Reducer Assembly
    RSSK-1A Seat Survival Kit (East/West) . . . 7-77
  Pressure Regulator
    Douglas Seat Pan . . . 5-66, F5-14
  Reducer/Manifold
    RSSK-1A Seat Survival Kit (East/West) . . . 7-67
    RSSK-1A Seat Survival Kit (Rocket Jet) . . . 7-74
  Reducer/Manifold (Firewel) P/N F1513000-1/-5/-7/-9
    RSSK-3 Seat Survival Kit . . . 8-62
  Reducer/Manifold Cables
    RSSK-1 Seat Survival Kit (Scott) . . . 7-76
    RSSK-1A Seat Survival Kit (Scott) . . . 7-76
  Reducer/Manifold P/N 29604-A1/-A2A
    RSSK-3 Seat Survival Kit . . . 8-61
  Release Handle Assembly
    RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-72
Allowance Listing . . . 1-20
Application
  Douglas Seat Pan with High Speed Soft Pack . . . 5-11
  Modified High Speed Soft Pack . . . 5-11
  Oxygen Hose Assemblies . . . 4-9, T4-1
  RSSK-1 Seat Survival Kit . . . 7-9
  RSSK-1A Seat Survival Kit . . . 7-9

ALPHABETICAL INDEX (Cont)

Subject — Paragraph, Figure, Table Number

A (Cont)

Application (Cont)
- RSSK-3 Seat Survival Kit . . . 8-10
- RSSK-8 Series Seat Survival Kit (East/West) . . . 10-9, T10-1
- RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-[illegible]
- SKK-9 Litter and Survival Kit Container Assembly . . . 3-8
- SP-1A Seat Pan with Standard Soft Pack . . . 5-11
- Special Soft Pack . . . 5-11
- SRU-41/P 22P-20 Survival Equipment Kit Bag Assembly . . . 3A-8, F3A-3, F3A-4
- Ventilated Seat Pan with Standard Soft Pack . . . 6-9

Assemblies
- Check Valve
  - Douglas Seat Pan . . . 5-64, F5-16
- Intermediate Block Assembly
  - RSSK-1 Seat Survival Kit . . . 7-62
  - RSSK-1A Seat Survival Kit . . . 7-62
- Lower Block Assembly
  - RSSK-1 Seat Survival Kit . . . 7-63, F7-13
  - RSSK-1A Seat Survival Kit . . . 7-63, F7-13
- Oxygen Hose Assemblies . . . 4-52
- Oxygen Hose Assemblies to Seat Survival Kits . . . 4-54, F4-11
- Pressure Reducer
  - RSSK-8E Seat Survival Kit (East/West) . . . 10-65, F10-11, F10-12
- Pressure Regulator
  - Douglas Seat Pan . . . 5-63, F5-14, F5-15
- Reducer/Manifold
  - RSSK-1 Seat Survival Kit (Scott) . . . 7-65, F7-14
  - RSSK-1A Seat Survival Kit (East/West) . . . 7-66, F7-15, F7-16
  - RSSK-1A Seat Survival Kit (Rocket Jet and Scott) . . . 7-65, F7-14
- Reducer/Manifold and Tube
  - RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-68, F9-9
- RSSK-1 Seat Survival Kit . . . 7-60, T7-10
- RSSK-1A Seat Survival Kit . . . 7-60, T7-10
- RSSK-3 Seat Survival Kit . . . 8-56
- RSSK-8 Series Seat Survival Kit (East/West) . . . 10-63
- RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-66
- Seat Pans . . . 5-61
- Upper Block Assembly
  - RSSK-1 Seat Survival Kit . . . 7-64
  - RSSK-1A Seat Survival Kit . . . 7-64

Attachment
- Seat Pan to Soft Pack . . . 6-25, F6-6

B

ALPHABETICAL INDEX (Cont)

Subject — Paragraph, Figure, Table Number

C

Cleaning
- Cushions and Fabric
  - RSSK-1 Seat Survival Kit . . . 7-50
  - RSSK-1A Seat Survival Kit . . . 7-50
  - RSSK-3 Seat Survival Kit . . . 8-49
  - RSSK-8 Series Seat Survival Kit (East/West) . . . 10-52
  - RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-52
  - Seat Pans/Soft Pack Survival Kits . . . 5-54
  - Ventilated Seat Pan with Standard Soft Pack . . . 6-45
- Oxygen Hose Assemblies . . . 4-39
- SKK-91 Liferaft and Survival Kit Container Assembly . . . 3-32
- SRU-41/P22P-20 Survival Equipment Kit Bag Assembly . . . 3A-38

Comments and Recommendations . . . 1-16

Configuration
- Douglas Seat Pan with High Speed Soft Pack . . . 5-4
- Oxygen Hose Assemblies
  - Liquid Oxygen (LOX) . . . 4-3, F4-2
  - Onboard Oxygen Generating System (OBOGS) . . . 4-3, F4-3
- RSSK-1 Seat Survival Kit
- RSSK-1A Seat Survival Kit
- RSSK-3 Seat Survival Kit . . . 8-3
- RSSK-8 Series Seat Survival Kit (East/West) . . . 10-3
- RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-3
- SKK-91 Liferaft and Survival Kit Container Assembly . . . 3-3, F3-3
- SP-1A Seat Pan with Standard Soft Pack . . . 5-4
- SRU-41/P22P-20 Survival Equipment Kit Bag Assembly . . . 3A-3, F3A-2, T3A-1
- Ventilated Seat Pan with Standard Soft Pack . . . 6-4, F6-3

Conflicts and Supersedures . . . 1-9

Contents . . . 1-8

D

Description of NAVAIR 13-1-6.3-1 . . . 1-7

Disassembly
- Oxygen Hose Assemblies . . . 4-37
- Pressure Reducer
  - RSSK-8E Seat Survival Kit (East/West) . . . 10-49, F10-9, F10-10
- Reducer Assembly (Scott)
  - RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-49
- Reducer/Manifold Assembly
  - RSSK-1A Seat Survival Kit (East/West) . . . 7-47, F7-11, F7-12
- RSSK-1 Seat Survival Kit . . . 7-45
- RSSK-1A Seat Survival Kit . . . 7-45
- RSSK-3 Seat Survival Kit . . . 8-45
- RSSK-8 Series Seat Survival Kit (East/West) . . . 10-47
- RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-47
- Seat Pans . . . 5-50

ALPHABETICAL INDEX (Cont)

Subject — Paragraph, Figure, Table Number

D (Cont)

Disassembly (Cont)
- SKK-9 Liferaft and Survival Kit Container Assembly . . . 3-31
- SRU-41/P 22P-20 Survival Equipment Kit Bag Assembly . . . 3A-36
- Ventilated Seat Pan with Standard Soft Pack . . . 6-41

E

Engineering Drawings . . . 1-17

F

Fabrications
- Actuation Lanyard (AN/URT-33 Radio Beacon)
  - RSSK-1 Seat Survival Kit . . . 7-89
  - RSSK-1A Seat Survival Kit . . . 7-89
- Alternate Seat Cushion
  - RSSK-8 Series Seat Survival Kit (East/West) . . . 10-81
  - RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-84
- Boot
  - RSSK-1 Seat Survival Kit . . . 7-85, F7-23
  - RSSK-1A Seat Survival Kit . . . 7-85, F7-23
  - RSSK-3 Seat Survival Kit . . . 8-67, F8-15
  - RSSK-8 Series Seat Survival Kit (East/West) . . . 10-78, F10-17
  - RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-80, F9-16
- Brake Rider's Strap
  - RSSK-1 Seat Survival Kit . . . 7-87
  - RSSK-1A Seat Survival Kit . . . 7-87
  - RSSK-3 Seat Survival Kit . . . 8-69
  - RSSK-8 Series Seat Survival Kit (East/West) . . . 10-80
  - RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-82
  - Seat Pans/Soft Pack Survival Kits . . . 5-70
  - Ventilated Seat Pan with Standard Soft Pack . . . 6-50
- Dropline
  - RSSK-1 Seat Survival Kit . . . 7-84, F7-22
  - RSSK-1A Seat Survival Kit . . . 7-84, F7-22
  - RSSK-3 Seat Survival Kit . . . 8-66, F8-14
  - RSSK-8 Series Seat Survival Kit (East/West) . . . 10-75, F10-16
  - RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-78, F9-15
- Guide Bracket Gage
  - RSSK-8 Series Seat Survival Kit (East/West) . . . 10-79, F10-18
  - RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-81, F9-17
- Liferaft Lanyard
  - SRU-41/P 22P-20 Survival Equipment Kit Bag Assembly . . . 3A-47, F3A-5
- Liferaft Retaining Line Stowage Pocket (E-2 Series Aircraft Only)
  - Ventilated Seat Pan with Standard Soft Pack . . . 6-53
- Oxygen Hose Assemblies . . . 4-57

ALPHABETICAL INDEX (Cont)

Subject — Paragraph, Figure, Table Number

F (Cont)

Fabrications (Cont)
- Relief Valve Adjustment Tool
  - RSSK-1 Seat Survival Kit . . . 7-88
  - RSSK-1A Seat Survival Kit . . . 7-88
  - RSSK-8 Series Seat Survival Kit (East/West) . . . 10-F7-6
  - RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-F8-3
- Retaining Lanyard
  - SKK-9 Liferaft and Survival Kit Container Assembly . . . 3-37, F3-6
  - Fabrication of Replacement Seat Cushion Foam . . . 3-38A
- Temporary Hairpin Cotter (AN/URT-33 Radio Beacon)
  - RSSK-3 Seat Survival Kit . . . 8-70
- Toggle Reset Tool
  - RSSK-1 Seat Survival Kit . . . 7-83, F7-21
  - RSSK-1A Seat Survival Kit . . . 7-83, F7-21
  - RSSK-8 Series Seat Survival Kit (East/West) . . . 10-F7-4, 10-F10-5
  - RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-F7-4, F9-4
- T-Wrench
  - RSSK-1 Seat Survival Kit . . . 7-86
  - RSSK-1A Seat Survival Kit . . . 7-86
  - RSSK-3 Seat Survival Kit . . . 8-68
  - RSSK-8 Series Seat Survival Kit (East/West) . . . 10-F7-7
  - RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-F7-9
  - Seat Pans/Soft Pack Survival Kits . . . 5-69

Function
- Douglas Seat Pan (High Speed Soft Pack) . . . 5-13, F5-7
- Oxygen Hose Assemblies . . . 4-11
- RSSK-1 Seat Survival Kit . . . 7-11, F7-5
- RSSK-1A Seat Survival Kit . . . 7-11, F7-5
- RSSK-3 Seat Survival Kit . . . 8-12, F8-3, 8-F8-4
- RSSK-8 Series Seat Survival Kit (East/West) . . . 10-11, F10-3
- RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-11, F9-3
- SKK-9 Liferaft and Survival Kit Container Assembly . . . 3-10
- SP-1A (Standard Soft Pack) . . . 5-13, F5-8
- Special Soft Pack . . . 5-13
- SRU-41/P 22P-20 Survival Equipment Kit Bag Assembly . . . 3A-10
- Ventilated Seat Pan with Standard Soft Pack . . . 6-11

G

H

ALPHABETICAL INDEX (Cont)

Subject — Paragraph, Figure, Table Number

I

Illustrated Parts Breakdown
- Douglas Pressure Regulator . . . 5-71, F5-18
- Douglas Seat Pan . . . 5-71, F5-17
- Emergency Oxygen Bottle . . . 6-54, F6-8
- Oxygen Hose Assemblies
  - Douglas Seat Pan . . . 4-59, F4-13
  - RSSK-1 Seat Survival Kit . . . 4-59, F4-15
  - RSSK-1A Seat Survival Kit . . . 4-59, F4-15
  - RSSK-3 Seat Survival Kit . . . 4-59, F4-16
  - RSSK-8 Series Seat Survival Kit . . . 4-59, F4-17
  - SKU-10/A Seat Survival Kit . . . 4-59, F4-22
  - SKU-11/A Seat Survival Kit . . . 4-59, F4-22
  - SKU-12/A Seat Survival Kit . . . 4-59, F4-18
  - SKU-2/A Seat Survival Kit . . . 4-59, F4-18
  - SKU-3/A Seat Survival Kit . . . 4-59, F4-19
  - SKU-4/A Seat Survival Kit . . . 4-59, F4-20
  - SKU-6/A Seat Survival Kit . . . 4-59, F4-21
  - SKU-7/A Seat Survival Kit . . . 4-59, F4-22
  - SP-1A Seat Survival Kit . . . 4-59, F4-14
- Rigid Seat Survival Kit-1 (Scott) . . . 7-90, F7-41
  - Intermediate Block Assembly . . . F7-46
  - Lower Block Assembly . . . F7-45
  - Lower Container Assembly . . . F7-42
  - Reducer/Manifold Assembly . . . F7-47
  - Upper Block Assembly . . . F7-44
  - Upper Container Assembly . . . F7-43
- Rigid Seat Survival Kit-1A (East/West) . . . 7-90, F7-48
  - Intermediate Block Assembly . . . F7-52
  - Lid Lock Release Assembly . . . F7-55
  - Lower Block Assembly . . . F7-50
  - Lower Container Assembly . . . F7-54
  - Reducer/Manifold Assembly . . . F7-53
  - Upper Block Assembly . . . F7-49
  - Upper Container Assembly . . . F7-51
- Rigid Seat Survival Kit-1A (Rocket Jet) . . . 7-90, F7-24
  - Cable Release Assembly . . . F7-32
  - Intermediate Block Assembly . . . F7-29
  - Left-Hand, Center and Right-Hand Cable Assemblies . . . F7-31
  - Lid Lock Assemblies . . . F7-33
  - Lower Block Assembly . . . F7-28
  - Lower Container and Handle Assemblies . . . F7-25
  - Reducer/Manifold Assembly . . . F7-30
  - Upper Block Assembly . . . F7-27
  - Upper Container Assembly . . . F7-26
- Rigid Seat Survival Kit-1A (Scott) . . . 7-90, F7-34
  - Intermediate Block Assembly . . . F7-39

ALPHABETICAL INDEX (Cont)

Subject — Paragraph, Figure, Table Number

I (Cont)

Illustrated Parts Breakdown (Cont)
- Rigid Seat Survival Kit-1A (Scott) (Cont)
  - Lower Block Assembly . . . F7-38
  - Lower Container Assembly . . . F7-35
  - Reducer/Manifold Assembly . . . F7-40
  - Upper Block Assembly . . . F7-37
  - Upper Container Assembly . . . F7-36
- Rigid Seat Survival Kit-8A (P/N 283000-7 and -17) (Rocket Jet) . . . 9-85, F9-18
  - Handle Assembly (P/N 34170-1) . . . F9-19
  - Handle Assembly (P/N 7110015) . . . F9-20
  - Lid Lock Assembly Tester 283000-17 . . . F9-29
  - Lid Lock Assembly Tester 283000-7 . . . F9-28
  - Lower Container Assembly (P/N 283100-17) . . . F9-20
  - Lower Container Assembly (P/N 283100-7) . . . F9-19
  - Multi-Release Assembly (P/N 283500) . . . F9-26
  - Multi-Release Assembly (P/N 283500-1) . . . F9-27
  - Reducer and Tube Assembly (P/N 283650-7) . . . F9-22
  - Reducer and Tube Assembly (P/N 283650-9) . . . F9-23
  - Release Assembly . . . F9-24
  - Release Assembly with Grip and Lanyard Assembly . . . F9-25
  - Upper Container (P/N 283200-7 and -17) . . . F9-21
- Rigid Seat Survival Kit-8A and 8A-1 (Scott) . . . 9-85, F9-30
  - Emergency Oxygen Actuator Assembly . . . F9-34
  - Lid Lock Multi-Release Actuator Assembly . . . F9-32
  - Lower Container Assembly . . . F9-31
  - Pressure Reducer Assembly . . . F9-35
  - Upper Container Assembly . . . F9-33
- Rigid Seat Survival Kit-8D (RSSK-8D) (East/West) . . . 10-82, F10-19
  - Lid Lock Assembly . . . F10-23
  - Lower Container Assembly . . . F10-22
  - Oxygen Supply Assembly . . . F10-21
  - Upper Container Assembly . . . F10-20
- Rigid Seat Survival Kit-8E (RSSK-8E) (East/West) . . . 10-82, F10-24
  - Lid Lock Assembly . . . F10-29
  - Lower Container Assembly . . . F10-28
  - Oxygen Supply Assembly . . . F10-26
  - Pressure Reducer Assembly . . . F10-27
  - Upper Container Assembly . . . F10-25
- RSSK-3 Seat Survival Kit . . . 8-71, F8-16
  - Emergency Oxygen Reducer and Actuator Assembly . . . 8-20
  - Emergency Oxygen System P/N 290604-A1/A2A . . . F8-17
  - Emergency Oxygen System P/N F1513000-1/-5/-7/-9 . . . F8-18
- SKK-9 Container Subassembly . . . 3-39, F3-8
- SKK-9 Life Raft and Survival Kit Container Assembly . . . 3-39, F3-7
- SP-1A Emergency Oxygen Bottle . . . 5-71, F5-20
- SP-1A Seat Pan . . . 5-71, F5-19
- SRU-41/P 22P-20 Survival Equipment Kit Bag Assembly . . . 3A-46, F3A-6
- Ventilated Seat Pan with Standard Soft Pack . . . 6-54, F6-7

ALPHABETICAL INDEX (Cont)

Subject — Paragraph, Figure, Table Number

I (Cont)

Illustrated Parts Breakdown Information . . . 2-10
Inspections
  Acceptance
    Oxygen Hose Assemblies . . . 4-28
    RSSK-1 Seat Survival Kit . . . 7-35
    RSSK-1A Seat Survival Kit . . . 7-35
    RSSK-3 Seat Survival Kit . . . 8-36
    RSSK-8 Series Seat Survival Kit (East/West) . . . 10-36
    RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-36
    Seat Pans/Soft Pack Survival Kits . . . 5-39
    SKK-9 Liferaft and Survival Kit Container Assembly . . . 3-26
    SRU-41/P22P-20 Survival Equipment Kit Bag Assembly . . . 3A-28
    Ventilated Seat Pan with Standard Soft Pack . . . 6-32
  Conditional
    Oxygen Hose Assemblies . . . 4-21
    RSSK-1 Seat Survival Kit . . . 7-28
    RSSK-1A Seat Survival Kit . . . 7-28
    RSSK-3 Seat Survival Kit . . . 8-29
    RSSK-8 Series Seat Survival Kit (East/West) . . . 10-29
    RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-29
    Seat Pans/Soft Pack Survival Kits . . . 5-32
    SKK-9 Liferaft and Survival Kit Container Assembly . . . 3-22
    Ventilated Seat Pan with Standard Soft Pack . . . 6-26
  Container Markings
    Soft Packs . . . 5-55, T5-8
  Daily
    Oxygen Hose Assemblies . . . 4-21
    RSSK-1 Seat Survival Kit . . . 7-28
    RSSK-1A Seat Survival Kit . . . 7-28
    RSSK-3 Seat Survival Kit . . . 8-29
    RSSK-8 Series Seat Survival Kit (East/West) . . . 10-29
    RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-29
    Seat Pans/Soft Pack Survival Kits . . . 5-32
    SKK-9 Liferaft and Survival Kit Container Assembly . . . 3-22
    Ventilated Seat Pan with Standard Soft Pack . . . 6-26
  Disassembled Parts
    Oxygen Hose Assemblies . . . 4-41
    RSSK-1 Seat Survival Kit . . . 7-51, T7-8
    RSSK-1A Seat Survival Kit . . . 7-51, T7-8
    RSSK-3 Seat Survival Kit . . . 8-50, T8-7
    RSSK-8 Series Seat Survival Kit (East/West) . . . 10-53, T10-9
    RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-53, T9-9
    Seat Pans . . . 5-55, T5-7
    SKK-9 Liferaft and Survival Kit Container Assembly . . . 3-33
    Ventilated Seat Pan with Standard Soft Pack . . . 6-47, T6-7, T6-8

ALPHABETICAL INDEX (Cont)

Subject — Paragraph, Figure, Table Number

I (Cont)

Inspections (Cont)
- Forward Guide Brackets
  - RSSK-8 Series Seat Survival Kit (East/West) . . . 10-55
- Functional Check
  - Douglas Seat Pan . . . 5-43, F5-12
  - Oxygen Hose Assemblies
    - Douglas Seat Pan . . . 4-31, F4-8
    - RSSK-1 Seat Survival Kit . . . 4-31, F4-9
    - RSSK-1A Seat Survival Kit . . . 4-31, F4-9
    - RSSK-3 Seat Survival Kit . . . 4-31, F4-4
    - RSSK-8 Series Seat Survival Kit . . . 4-31, F4-5
    - SKU-10/A Seat Survival Kit . . . 4-31, F4-6
    - SKU-11/A Seat Survival Kit . . . 4-31, F4-6
    - SKU-12/A Seat Survival Kit . . . 4-31, F4-5
    - SKU-2/A Seat Survival Kit . . . 4-31, F4-5
    - SKU-3/A Seat Survival Kit . . . 4-31, F4-7
    - SKU-4/A Seat Survival Kit . . . 4-31, F4-5
    - SKU-6/A Seat Survival Kit . . . 4-31, F4-7
    - SKU-7/A Seat Survival Kit . . . 4-31, F4-6
  - RSSK-1 Seat Survival Kit . . . 7-39, F7-10
  - RSSK-1A Seat Survival Kit . . . 7-39, F7-10
  - RSSK-3 Seat Survival Kit . . . 8-39, F8-10
  - RSSK-8 Series Seat Survival Kit (East/West) . . . 10-44, F10-8
  - RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-44, F9-8
- Guide Brackets
  - RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-56
- Leak Check
  - SP-1A Seat Pan . . . 5-42
  - Ventilated Seat Pan . . . 6-35
- PDM
  - RSSK-1 Seat Survival Kit . . . 7-35
  - RSSK-1A Seat Survival Kit . . . 7-35
  - RSSK-3 Seat Survival Kit . . . 8-36
  - RSSK-8 Series Seat Survival Kit (East/West) . . . 10-56
  - RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-56
  - Seat Pans/Soft Pack Survival Kits . . . 5-39
  - Ventilated Seat Pan with Standard Soft Pack . . . 6-32
- Phased
  - Oxygen Hose Assemblies . . . 4-28
  - RSSK-1 Seat Survival Kit . . . 7-35
  - RSSK-1A Seat Survival Kit . . . 7-35
  - RSSK-3 Seat Survival Kit . . . 8-36
  - RSSK-8 Series Seat Survival Kit (East/West) . . . 10-56
  - RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-56
  - Seat Pans/Soft Pack Survival Kits . . . 5-39
  - SKK-9 Life Raft and Survival Kit Container Assembly . . . 3-26
  - Ventilated Seat Pan with Standard Soft Pack . . . 6-32

ALPHABETICAL INDEX (Cont)

Subject — Paragraph, Figure, Table Number

I (Cont)

Inspections (Cont)
- Pin Pull Test for Closure Strap Arming Wire (Before ACC 377)
  - RSSK-8 Series Seat Survival Kit (East/West) . . . 10-39
  - RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-39
- Place-In-Service
  - SRU-41/P 22P-20 Survival Equipment Kit Bag Assembly . . . 3A-30
- Postflight
  - Oxygen Hose Assemblies . . . 4-21
  - RSSK-1 Seat Survival Kit . . . 7-28
  - RSSK-1A Seat Survival Kit . . . 7-28
  - RSSK-3 Seat Survival Kit . . . 8-29
  - RSSK-8 Series Seat Survival Kit (East/West) . . . 10-29
  - RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-29
  - Seat Pans/Soft Pack Survival Kits . . . 5-32
  - SKK-9 Liferaft and Survival Kit Container Assembly . . . 3-22
  - Ventilated Seat Pan with Standard Soft Pack . . . 6-26
- Preflight
  - Oxygen Hose Assemblies . . . 4-21
  - RSSK-1 Seat Survival Kit . . . 7-28
  - RSSK-1A Seat Survival Kit . . . 7-28
  - RSSK-3 Seat Survival Kit . . . 8-29
  - RSSK-8 Series Seat Survival Kit (East/West) . . . 10-29
  - RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-29
  - Seat Pans/Soft Pack Survival Kits . . . 5-32
  - SKK-9 Liferaft and Survival Kit Container Assembly . . . 3-22
  - Ventilated Seat Pan with Standard Soft Pack . . . 6-26
- Release Handle Assembly (Scott)
  - RSSK-8 Series Seat Survival Kit . . . 9-55
- SDLM
  - Oxygen Hose Assemblies . . . 4-28
  - RSSK-1 Seat Survival Kit . . . 7-35
  - RSSK-1A Seat Survival Kit . . . 7-35
  - RSSK-3 Seat Survival Kit . . . 8-36
  - RSSK-8 Series Seat Survival Kit (East/West) . . . 10-36
  - RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-36
  - Seat Pans/Soft Pack Survival Kits . . . 5-39
  - SKK-9 Liferaft and Survival Kit Container Assembly . . . 3-26
  - Ventilated Seat Pan with Standard Soft Pack . . . 6-32
- Special
  - Oxygen Hose Assemblies . . . 4-21
  - RSSK-1 Seat Survival Kit . . . 7-28
  - RSSK-1A Seat Survival Kit . . . 7-28
  - RSSK-3 Seat Survival Kit . . . 8-29
  - RSSK-8 Series Seat Survival Kit (East/West) . . . 10-29
  - RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-29
  - Seat Pans/Soft Pack Survival Kits . . . 5-32
  - SKK-9 Liferaft and Survival Kit Container Assembly . . . 3-22

ALPHABETICAL INDEX (Cont)

Subject — Paragraph, Figure, Table Number

I (Cont)

Inspections (Cont)
- Special (Cont)
  - Ventilated Seat Pan with Standard Soft Pack . . . 6-26
  - 14-Day
    - SRU-41/P 22P-20 Survival Equipment Kit Bag Assembly . . . 3A-31
  - 448-Day
    - SRU-41/P 22P-20 Survival Equipment Kit Bag Assembly . . . 3A-31
  - 1792-Day
    - SRU-41/P 22P-20 Survival Equipment Kit Bag Assembly . . . 3A-32
- Survival Equipment Kit Bag Assembly and Lanyard Assembly
  - SRU-41/P 22P-20 Survival Equipment Kit Bag Assembly . . . 3A-33, T 3A-2
- Swaged Ball Pull Test
  - RSSK-1 Seat Survival Kit . . . 7-38
  - RSSK-1A Seat Survival Kit . . . 7-38
  - RSSK-8 Series Seat Survival Kit (East/West) . . . 10-40
  - RSSK-8 Series Seat Survival Kit (Rocket Jet and Scout) . . . 9-40
- Transfer
  - Oxygen Hose Assemblies . . . 4-21
  - RSSK-1 Seat Survival Kit . . . 7-28
  - RSSK-1A Seat Survival Kit . . . 7-28
  - RSSK-3 Seat Survival Kit . . . 8-29
  - RSSK-8 Series Seat Survival Kit (East/West) . . . 10-29
  - RSSK-8 Series Seat Survival Kit (Rocket Jet and Scout) . . . 9-29
  - Seat Pans/Soft Pack Survival Kits . . . 5-32
  - SKK-9 Life Raft and Survival Kit Container Assembly . . . 3-22
  - Ventilated Seat Pan with Standard Soft Pack . . . 6-26
- Turnaround
  - Oxygen Hose Assemblies . . . 4-21
  - RSSK-1 Seat Survival Kit . . . 7-28
  - RSSK-1A Seat Survival Kit . . . 7-28
  - RSSK-3 Seat Survival Kit . . . 8-29
  - RSSK-8 Series Seat Survival Kit (East/West) . . . 10-29
  - RSSK-8 Series Seat Survival Kit (Rocket Jet and Scout) . . . 9-29
  - Seat Pans/Soft Pack Survival Kits . . . 5-32
  - SKK-9 Life Raft and Survival Kit Container Assembly . . . 3-22
  - Ventilated Seat Pan with Standard Soft Pack . . . 6-26
- Visual
  - Oxygen Hose Assemblies . . . 4-30, T 4-2
  - RSSK-1 Seat Survival Kit . . . 7-37
  - RSSK-1A Seat Survival Kit . . . 7-37
  - RSSK-3 Seat Survival Kit . . . 8-38
  - RSSK-8 Series Seat Survival Kit (East/West) . . . 10-38
  - RSSK-8 Series Seat Survival Kit (Rocket Jet and Scout) . . . 9-38
  - Seat Pans/Soft Pack Survival Kits . . . 5-41
  - SRU-41/P 22P-20 Survival Equipment Kit Bag Assembly . . . 3A-29
  - Ventilated Seat Pan with Standard Soft Pack . . . 6-34

Installations
- Oxygen Hose Assemblies
  - 32-Inch Electrical Cable Assembly CX-13017/AR (S-3A A/C Only) . . . 4-55, F 4-12

ALPHABETICAL INDEX (Cont)

Subject — Paragraph, Figure, Table Number

I (Cont)

Installations (Cont)
- Radio Beacon
  - Douglas Seat Pan . . . 5-22
  - RSSK-1 Seat Survival Kit . . . 7-20
  - RSSK-1A Seat Survival Kit . . . 7-20
  - RSSK-3 Seat Survival Kit . . . 8-21
  - RSSK-8 Series Seat Survival Kit (East/West) . . . 10-20
  - RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-20
  - Special Soft Pack . . . 5-23
  - Standard Soft Pack . . . 5-24
- Radio Beacon Lanyard
  - Douglas Seat Pan . . . 5-30
  - RSSK-1 Seat Survival Kit . . . 7-24
  - RSSK-1A Seat Survival Kit . . . 7-24
  - RSSK-3 Seat Survival Kit . . . 8-28
  - Special Soft Pack . . . 5-31
- Radio Beacon Lanyard (A-4/TA-4 A/C)
  - RSSK-8 Series Seat Survival Kit (East/West) . . . 10-27
  - RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-27
- Radio Beacon Lanyard (S-3 A/C)
  - RSSK-8 Series Seat Survival Kit (East/West) . . . 10-28
  - RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-28
- Survival Equipment Kit Bag Assembly and Lanyard Assembly
  - SRU-41/P22P-20 Survival Equipment Kit Bag Assembly . . . 3A-33

J

K

L

Levels of Maintenance . . . 1-22

M

Maintenance
- Oxygen Hose Assemblies . . . 4-33
- RSSK-1 Seat Survival Kit . . . 7-41
- RSSK-1A Seat Survival Kit . . . 7-41
- RSSK-3 Seat Survival Kit . . . 8-41
- RSSK-8 Series Seat Survival Kit (East/West) . . . 10-43
- RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-43
- Seat Pans/Soft Pack Survival Kits . . . 5-46
- SKK-9 Life Raft and Survival Kit Container Assembly . . . 3-29
- SRU-41/P22P-20 Survival Equipment Kit Bag Assembly . . . 3A-34
- Ventilated Seat Pan with Standard Soft Pack . . . 6-37

ALPHABETICAL INDEX (Cont)

Subject — Paragraph, Figure, Table Number

M (Cont)

Maintenance Concepts . . . 2-1
Maintenance Documents . . . 2-7
Maintenance Scheduling . . . 2-5
Modifications
RSSK-1 Seat Survival Kit . . . 7-13, T7-1
RSSK-1A Seat Survival Kit . . . 7-13, T7-1
RSSK-3 Seat Survival Kit . . . 8-14, T8-1
RSSK-8 Series Seat Survival Kit (East/West) . . . 10-13, T10-2, T10-3
RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-13, T9-2, T9-3
Seat Pans/Soft Packs Survival Kits . . . 5-15, T5-1
SKK-9 Liferaft and Survival Kit Container Assembly . . . 3-12
SRU-41/P 22P-20 Survival Equipment Kit Bag Assembly . . . 3A-12
Ventilated Seat Pan with Standard Soft Pack . . . 6-15, T6-1

N

O

Oxygen Hose Assemblies . . . 4-1, F4-1

P

Packing Procedures
Closing Container
RSSK-1 Seat Survival Kit . . . 7-25
RSSK-1A Seat Survival Kit . . . 7-25
RSSK-3 Seat Survival Kit . . . 8-26
RSSK-8 Series Seat Survival Kit (East/West) . . . 10-25
RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-25
SRU-41/P 22P-20 Survival Equipment Kit Bag Assembly . . . 3A-16
Liferaft
High Speed Soft Pack . . . 5-28, F5-10
Modified High Speed Soft Pack . . . 5-29, F5-11
RSSK-1 Seat Survival Kit . . . 7-24, F7-9
RSSK-1A Seat Survival Kit . . . 7-24, F7-9
RSSK-3 Seat Survival Kit . . . 8-25, F8-9
RSSK-8 Series Seat Survival Kit (East/West) . . . 10-24, F10-7
RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-24, F9-7
SKK-9 Liferaft and Survival Kit Container Assembly . . . 3-20, F3-5
Special Soft Packs . . . 5-28, F5-10
Standard Soft Packs . . . 5-28, F5-10
SRU-41/P 22P-20 Survival Equipment Kit Bag Assembly . . . 3A-16
Ventilated Seat Pan with Standard Soft Pack . . . 6-24, F6-5
Preliminary
RSSK-1 Seat Survival Kit . . . 7-19
RSSK-1A Seat Survival Kit . . . 7-19

ALPHABETICAL INDEX (Cont)

Subject — Paragraph, Figure, Table Number

P (Cont)

Packing Procedures (Cont)
- Preliminary (Cont)
  - RSSK-3 Seat Survival Kit . . . 8-20
  - RSSK-8 Series Seat Survival Kit (East/West) . . . 10-19
  - RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-19
  - Seat Pans/Soft Pack Survival Kits . . . 5-21
  - SKK-9 Liferaft and Survival Kit Container Assembly . . . 3-18
  - Ventilated Seat Pan with Standard Soft Pack . . . 6-21
- RSSK-1 Seat Survival Kit . . . 7-17
- RSSK-1A Seat Survival Kit . . . 7-17
- RSSK-3 Seat Survival Kit . . . 8-18
- RSSK-8 Series Seat Survival Kit (East/West) . . . 10-17
- RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-17
- Seat Pans/Soft Pack Survival Kits . . . 5-19
- Stowing Dropline
  - RSSK-1 Seat Survival Kit . . . 7-23, F7-8
  - RSSK-1A Seat Survival Kit . . . 7-23, F7-8
  - RSSK-3 Seat Survival Kit . . . 8-24, F8-8
  - RSSK-8 Series Seat Survival Kit (East/West) . . . 10-23, F10-6
  - RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-23, F9-6
- Survival Equipment
  - High Speed Soft Pack . . . 5-26
  - RSSK-1 Seat Survival Kit . . . 7-22, F7-7
  - RSSK-1A Seat Survival Kit . . . 7-22, F7-7
  - RSSK-3 Seat Survival Kit . . . 8-23, F8-6, F8-7
  - RSSK-8 Series Seat Survival Kit (East/West) . . . 10-22, F10-5
  - RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-22, F9-5
  - SKK-9 Liferaft and Survival Kit Container Assembly . . . 3-21
  - Special Soft Packs . . . 5-27
  - Standard Soft Packs . . . 5-27
  - Ventilated Seat Pan with Standard Soft Pack . . . 6-23
- Ventilated Seat Pan with Standard Soft Pack . . . 6-19

Purging and Charging
- Emergency Oxygen System
  - Douglas Seat Pan . . . 5-45, T5-4, T5-5
  - RSSK-1 Seat Survival Kit . . . 7-40, T7-4, T7-5
  - RSSK-1A Seat Survival Kit . . . 7-40, T7-4, T7-5
  - RSSK-3 Seat Survival Kit . . . 8-40, T8-4, T8-5
  - RSSK-8 Series Seat Survival Kit (East/West) . . . 10-42, T10-6, T10-7
  - RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-42, T9-6, T9-7
  - SP-1A Seat Pan . . . 5-44, T5-4, T5-5
  - Ventilated Seat Pan with Standard Soft Pack . . . 6-36, T6-4, T6-5

Q

Quality Assurance . . . 1-19

ALPHABETICAL INDEX (Cont)

Subject — Paragraph, Figure, Table Number

R

Reference Numbers, Items, and Supply Data
- Oxygen Hose Assemblies . . . 4-7
- RSSK-1 Seat Survival Kit . . . 7-7
- RSSK-1A Seat Survival Kit . . . 7-7
- RSSK-3 Seat Survival Kit . . . 8-8
- RSSK-8 Series Seat Survival Kit (East/West) . . . 10-7
- RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-7
- Seat Pans/Soft Pack Survival Kits . . . 5-9
- SKK-9 Liferaft and Survival Kit Container Assembly . . . 3-6
- SRU-41/P 22P-20 Survival Equipment Kit Bag Assembly . . . 3A-6, F3A-3, F3A-4
- Ventilated Seat Pan with Standard Soft Pack . . . 6-7

Repairs
- Cushion Assembly
  - RSSK-1 Seat Survival Kit . . . 7-55
  - RSSK-1A Seat Survival Kit . . . 7-55
  - RSSK-3 Seat Survival Kit . . . 8-54
  - RSSK-8 Series Seat Survival Kit (East/West) . . . 10-58
  - RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-61
- Emergency Oxygen Lanyard Coupling
  - RSSK-8 Series Seat Survival Kit (East/West) . . . 10-59
  - RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-60
- Hinge Weld Cracks
  - RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-59
- Oxygen Gage Window
  - RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-62
- Oxygen Hose Assemblies . . . 4-44
  - RSSK-3 Seat Survival Kit . . . 4-45
  - RSSK-8 Series Seat Survival Kit . . . 4-46
  - SKU-12/A Seat Survival Kit . . . 4-46
  - SKU-2/A Seat Survival Kit . . . 4-46
  - SKU-3/A Seat Survival Kit . . . 4-47
  - SKU-4/A Seat Survival Kit . . . 4-46
  - SKU-6/A Seat Survival Kit . . . 4-47
- Reinforcement of Oxygen/Communication Hose Assembly . . . 4-48, F4-10
- RSSK-1 Seat Survival Kit . . . 7-54, T7-9
- RSSK-1A Seat Survival Kit . . . 7-54, T7-9
- RSSK-8 Series Seat Survival Kit (East/West) . . . 10-57
- RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-58, T9-10
- Seat Pans
  - Cushion Assembly . . . 5-60
  - Seat Pan Tabs . . . 5-59, F5-13
- Seat Pans/Soft Pack Survival Kits . . . 5-57
- SKK-9 Liferaft and Survival Kit Container Assembly . . . 3-34
- SRU-41/P 22P-20 Survival Equipment Kit Bag Assembly . . . 3A-41
- Ventilated Seat Pan with Standard Soft Pack . . . 6-48

ALPHABETICAL INDEX (Cont)

Subject — Paragraph, Figure, Table Number

R (Cont)

Replacements
- Cable/Keeper (Regulator Hose Assembly)
  - SKU-10/A Seat Survival Kit . . . 4-50
  - SKU-11/A Seat Survival Kit . . . 4-50
  - SKU-7/A Seat Survival Kit . . . 4-50
- Cable/Keeper (Seat Kit Hose Assembly)
  - SKU-10/A Seat Survival Kit . . . 4-51
  - SKU-11/A Seat Survival Kit . . . 4-51
  - SKU-7/A Seat Survival Kit . . . 4-51
- Filler Valve Core
  - RSSK-1 Seat Survival Kit . . . 7-57
  - RSSK-1A Seat Survival Kit . . . 7-57
- Lapbelt Adjuster (East/West)
  - RSSK-1 Seat Survival Kit . . . 7-58
  - RSSK-1A Seat Survival Kit . . . 7-58
  - RSSK-8 Series Seat Survival Kit (East/West) . . . 10-61
  - RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-64
- Oxygen Hose Assemblies . . . 4-49
- RSSK-1 Seat Survival Kit . . . 7-56
- RSSK-1A Seat Survival Kit . . . 7-56
- RSSK-3 Seat Survival Kit . . . 8-55
- RSSK-8 Series Seat Survival Kit (East/West) . . . 10-60
- RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-63
- Seat Pans/Soft Pack Survival Kits . . . 5-57
- SKK-9 Liferaft and Survival Kit Container Assembly . . . 3-34
- SRU-41/P 22P-20 Survival Equipment Kit Bag Assembly . . . 3A-41
- Ventilated Seat Pan with Standard Soft Pack . . . 6-48

Resetting
- Reducer/Manifold (Firewel)
  - RSSK-3 Seat Survival Kit . . . 8-59, 8-F8-12
- Reducer/Manifold (Pioneer Central)
  - RSSK-3 Seat Survival Kit . . . 8-58, 8-F8-11

Rigging Procedures
- Oxygen Hose Assemblies . . . 4-18
- Preliminary
  - RSSK-1 Seat Survival Kit . . . 7-19
  - RSSK-1A Seat Survival Kit . . . 7-19
  - RSSK-3 Seat Survival Kit . . . 8-20
  - RSSK-8 Series Seat Survival Kit (East/West) . . . 10-19
  - RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-19
  - Seat Pans/Soft Pack Survival Kits . . . 5-21
  - SKK-9 Liferaft and Survival Kit Container Assembly . . . 3-18
  - Ventilated Seat Pan with Standard Soft Pack . . . 6-21
- Radio Beacon
  - Douglas Seat Pan . . . 5-22
  - RSSK-1 Seat Survival Kit . . . 7-20
  - RSSK-1A Seat Survival Kit . . . 7-20

ALPHABETICAL INDEX (Cont)

Subject — Paragraph, Figure, Table Number

R (Cont)

Rigging Procedures (Cont)
- Radio Beacon (Cont)
  - RSSK-3 Seat Survival Kit . . . 8-21
  - RSSK-8 Series Seat Survival Kit (East/West) . . . 10-20
  - RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-20
  - Special Soft Pack . . . 5-23
  - Standard Soft Pack . . . 5-24
- RSSK-1 Seat Survival Kit . . . 7-17
- RSSK-1A Seat Survival Kit . . . 7-17
- RSSK-3 Seat Survival Kit . . . 8-18
- RSSK-8 Series Seat Survival Kit (East/West) . . . 10-17
- RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-17
- Seat Pans/Soft Packs Survival Kits . . . 5-19
- Survival Equipment Binding
  - RSSK-1 Seat Survival Kit . . . 7-21, F7-6, T7-2
  - RSSK-1A Seat Survival Kit . . . 7-21, F7-6, T7-2
  - RSSK-3 Seat Survival Kit . . . 8-22, F8-5, T8-2
  - RSSK-8 Series Seat Survival Kit (East/West) . . . 10-21, F10-4, T10-4, T10-5
  - RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-21, F9-4, T9-4, T9-5
  - Seat Pans/Soft Pack Survival Kits . . . 5-25, F5-9, T5-2, T5-3
  - SKK-9 Liferaft and Survival Kit Container Assembly . . . 3-19, F3-4, T3-1, T3-2
  - SRU-41/P 22P-20 Survival Equipment Kit Bag Assembly . . . 3A-18, T3A-1, T3A-2
  - Ventilated Seat Pan with Standard Soft Pack . . . 6-22, F6-4, T6-2, T6-3
- Ventilated Seat Pan with Standard Soft Pack . . . 6-19

RSSK-1 Seat Survival Kit . . . 7-1, F7-1, F7-2
RSSK-1A Seat Survival Kit . . . 7-1, F7-3, F7-4
RSSK-3 Seat Survival Kit . . . 8-1, F8-1, F8-2
RSSK-8 Series Seat Survival Kit (East/West) . . . 10-1, F10-1, F10-2
RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott) . . . 9-1, F9-1, F9-2

S

Seat Pan (Ventilated) . . . 6-1, F6-1
Seat Pans (Douglas) . . . 5-1, F5-1, F5-2
Seat Pans (SP-1A) . . . 5-1, F5-3
SKK-9 Liferaft and Survival Kit Container Assembly . . . 3-1, F3-1, F3-2
Soft Pack (High and Modified High Speed) . . . 5-1, F5-6
Soft Pack (Special) . . . 5-1, F5-5
Soft Pack (Standard) . . . 5-1, F5-4
Soft Pack (Standard) . . . 6-1, F6-2
SRU-41/P 22P-20 Survival Equipment Kit Bag Assembly . . . 3A-1, F3A-1
Supplementary Publications . . . 1-24

ALPHABETICAL INDEX (Cont)

Subject	Paragraph, Figure, Table Number
T	
Technical Directives and Forms	1-18
Testing	
Electrical Check	
RSSK-1 Seat Survival Kit	7-80, 7-20
RSSK-1A Seat Survival Kit	7-80, 7-20
Leak Test of Block Assemblies (Post Assembly)	
RSSK-1 Seat Survival Kit	7-68
RSSK-1A Seat Survival Kit	7-68
Troubleshooting	
Oxygen Hose Assemblies	4-35, T4-3
RSSK-1 Seat Survival Kit	7-43, T7-6
RSSK-1A Seat Survival Kit (East/West)	7-43, T7-7
RSSK-1A Seat Survival Kit (Rocket Jet and Scott)	7-43, T7-6
RSSK-3 Seat Survival Kit	8-43, T8-6
RSSK-8 Series Seat Survival Kit (East/West)	10-45, T10-8
RSSK-8 Series Seat Survival Kit (Rocket Jet and Scott)	9-45, T9-8
Seat Pans/Soft Pack Survival Kits	5-48, T5-6
Ventilated Seat Pan with Standard Soft Pack	6-39, T6-6
U	
Updating	1-15
V	
W	
X	
Y	
Z	