
INTRODUCTION

OFF AIRCRAFT MAINTENANCE WITH ILLUSTRATED PARTS BREAKDOWN

A/A24A-56 HELMET UNIT, INTEGRATED (JOINT HELMET MOUNTED CUEING SYSTEM)

1. PURPOSE AND SCOPE.

2. This manual provides off aircraft maintenance and illustrated parts breakdown information for A/A24A-56 Helmet Unit, Integrated (Joint Helmet Mounted Cueing System).

3. REQUISITION AND AUTOMATIC DISTRIBUTION OF NAVAIR TECHNICAL MANUALS.

4. Procedures to be used by Naval activities and other Department of Defense activities requiring NAVAIR technical manuals are defined in NAVAIR 00-25-100 and NAVAIRINST 5605.5A.

5. To automatically receive future changes and revisions to NAVAIR technical manuals, an activity must be established on the Automatic Distribution Requirements List (ADRL) maintained by the Naval Air Technical Data and Engineering Service Command (NATEC). To become established on the ADRL, tell your activity central technical publications librarian. If your activity does not have a library, you may establish your automatic distribution requirements by contacting the Commanding Officer, NATEC, Attn: Distribution, NAS North Island, Bldg. 90, P. O. Box 357031, San Diego, CA 92135-7031. Reconfirmation of these requirements are required, each year, to remain on automatic distribution. Please use your NATEC assigned account number when referring to automatic distribution requirements.

6. If added or replacement copies of this manual are required with no attendant changes in the ADRL, they may be ordered by submitting a MILSTRIP requisition in accordance with NAVSUP 485 to Routing Identifier Code "NFZ". MILSTRIP requisitions can be submitted through your supply office, Navy message, or SALTS to DAAS (Defense Automated Address System), or through the DAAS or NAVSUP web sites. For assistance with a MILSTRIP requisition, contact the Naval Inventory Control Point (NAVICP) Publications and Forms Customer Service at DSN 442-2626 or (215) 697-2626, Monday thru Friday, 0700 to 1600 eastern time.

7. ELECTROSTATIC SENSITIVE DEVICES (ESD).

a. Metallic-oxide semiconductor field effect transistors (MOSFETS), complementary metallic-oxide semiconductors (CMOS), and similar devices are vulnerable to static electricity discharges. Unless correct precautions are used, devices may be damaged before, during, or after installation in their next higher assembly. Refer to NAVAIR 01-1A-23 for special handling instructions.

b. When a device has been identified as being subject to damage from electrostatic discharge, the following symbol is used: **ESD**.

c. When a whole paragraph (including subparagraphs) is considered electrostatic sensitive, only the major paragraph is marked. The symbol **ESD** is placed between the step number and title.

d. When only applicable steps are electrostatic sensitive, only the step is marked. The symbol **ESD** is placed between the step number and title.

8. QUALITY ASSURANCE PROCEDURES.

9. Procedures or parts of procedures which require quality assurance inspection are identified by the letters (QA) after the applicable steps.

10. DEFICIENCY REPORTING.

11. All unusual/recurring failures should be documented by way of a Product Quality Deficiency Report (PQDR) form SF368 and should be sent electronically to craig_l@crane.navy.mil or faxed to (812) 854-4375 (DSN 482) attention L. Craig. Refer to **PACKAGING, WP00800**, for special packaging requirements. Failed parts should be sent by way of the instructions in the supply MRIL, except for Engineering Investigation (EI) failures. Engineering Investigation failed parts should go directly to Naval Surface Warfare Center, Crane, Indiana.

UIC: N00164
 COMMANDER
 NAVSURFWARCENDIV, Crane Division
 300 Highway 361
 Attn: Code 805H (L. Craig) Building 3291
 Crane, IN 47522-5001
 PHONE: (812) 854-2372

which has been subjected to ditching/bailout or ejection be returned to service.

11A. AIRCRAFT ACCIDENT REPORT INSPECTION.

11B. 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.

11C. Stencil outside of container in 1-inch 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.

12. SUPPORT EQUIPMENT REQUIRED.

13. Table 1 is a consolidated list of support equipment appearing through this manual and shown in each applicable Support Equipment Required list.

14. MATERIALS REQUIRED.

15. Table 2 is a consolidated list of soft and hard consumable materials used through this manual and shown in each applicable Materials Required list.

NOTE

Under no circumstances will any piece of Aviation Life Support System equipment

Table 1. Support Equipment Required

Nomenclature	Type Designation/Part Number	CAGE
* Adapter	GTMBSS8A	55719
Computer	COMMERCIAL	N/A
Dressmaker's Tape Measure	A-A-1666 (NIIN 00-782-3520)	58536
Drill Bit, Number 16	DBE16A	55719
Drill Bit, Number 25	DBE25A	55719
Drill Bit, Number 28	DBE28A	55719
Drill Bit, Number 29	DBE29A	55719
Drill Bit, Number 32	DBE32A	55719
Drill Bit, Number 33	DBE33A	55719
Drill Bit, Number 40	DBE40A	55719
Hand File (Rough Cut)	9-31310	53800
Heat Gun	ET1600	55719
Helmet Display Unit Test Set Cable	620992-01-00	06VL3
Helmet Mounted Display Test Set	620900-02-01	06VL3
JHMCS Torque Tool Kit	3829AS110	30003
Knife	GGG-K-450	81348
Magnifying Glass	GP200	17866
Metal Spatula	GGG-C-746 (NIIN 00-254-4791)	81348
Navy Combat Edge Leakage Tester, TTU-551/E	3549AS100	30003
Needle Nose Pliers	9-45172	53800
Purge Kit (Ashore)	SC4931-95CLJ54	19200
Purge Kit (Afloat)	268549	13567
Purge Valve Adapter	269390-1	13567
Putty Knife	GGG-K-481	81348
QDC Removal/Insertion Tool	189-0431	99747
QMB	178-5936	99747

Table 1. Support Equipment Required (Continued)

Nomenclature	Type Designation/Part Number	CAGE
Razor Blade	GG-R-60	81348
Ruler	GG-R-791	81348
Safety Goggles	G-G-531	81348
Scissors	3452	70574
Small Hand Held Grinder (Rotary)	84922	18531
Stop Watch	LCD-200	86582
Tape Measure, Cloth	MIL-C-29127	81349
Tensioning Tool	MS90387-1	96906
* Tip, Hex .035	.5H.035-.5	32652
* Tip, Hex .050	120003	32652
* Tip, Hex .050 (Tip Extended)	.75H050-.865	32652
* Tip, Hex 1/16	120116	32652
* Tip, Hex Flat	120141	32652
* Tip, Hex Phillips	120108	32652
* Torque Drive Tool Pouch	TD-TP/C	0D1Z5
* Torque Screwdriver Preset 2 Inch-Ounce	020074	32652
* Torque Screwdriver 2 - 100 Inch-Ounce	6C486	25795
Tweezers	9-45335	53800
Visor Template	81D5189-3 or -4	53655
* Part of JHMCS Torque Tool Kit 3829AS110		
NOTE: When an item of support equipment is not available, an approved alternate identified in the activity's Individual Material Readiness List (IMRL) may be substituted.		

Table 2. Materials Required

Nomenclature	Specification or Part Number	CAGE
Acid Brush	1127-0004-P10	17794
Adhesive	EC1357 (NIIN 00-165-8614) (NIIN 00-273-8717)	04963
Adhesive	MIL-A-5540, CLASS 3, FORM B (NIIN 00-515-2246)	80244
Adhesive	MMM-A-1754 (NIIN 00-738-6429)	81348
Adhesive	MIL-A-46106 (NIIN 00-225-4548)	81349
Adhesive	RTV-102, RTV-732 (NIIN 00-877-9872)	01139
Adhesive	RTV-154, RTV-157 (NIIN 00-181-8380)	01139
Adhesive	2216 B/A, GRAY, (NSN for 2 oz. tube 8040-00-145-0019)	76381
Antifogging Compound	O-A-549, (NIIN 00-754-2672)	81348
Bracket Kit, Helmet	265030-3	13567
Brush, Soft	A-A-2076 TYPE 1	58536
Canned Air	MS-222	18598
Chalk, White	SS-C-266	81348
Cloth, Lens	73	6J776
Cloth, Lint-free	MIL-C-85043 TYPE 1	76301
Correction Fluid	A-A-212 TYPE 1	80244
Cotton Tip Swab	GG-A-616	81348
Detergent, General Purpose	MIL-D-16791 TYPE 1 (NIIN 00-282-9699)	81349
Distilled Water	COMMERCIAL	N/A
Double-Sided Masking Tape	4962	52152
Emery Cloth (fine grit)	P-C-451	81348
Fastener Tape, Pile, Type I, 2-Inch Width	MIL-F-21840 (NIIN 00-926-4930)	81349

Table 2. Materials Required (Continued)

Nomenclature	Specification or Part Number	CAGE
Glue	A-A-342	58536
Grease Pencil	SS-P-186	81348
Helmet Mount Assembly (AN/AVS-9 (V))	273735-1	13567
Isopropyl Alcohol	TT-I-735 OR MIL-I-10428 (NIIN 00-855-1158) (NIIN 00-855-6160) (NIIN 01-190-2538) (NIIN 01-220-9907)	81348
Kit, Bayonet Receiver	GW9117	60240
Kit, Bladder Assembly	GW9163-01	60240
Leak Test Compound	SNOOP 8 OZ	02570
Manila Folder	UU-F-1206	81348
Masking Tape	A-A-883 TYPE 1	58536
Oxygen, Aviator's	MIL-O-27210 TYPE 1	81349
Pencil, Lead	A-A-2771	58536
Primer, Sealing Compound	MIL-S-22473, GRADE T, FORM R, AEROSOL CAN (NIIN 00-181-8372)	81349
Receptacle Kit, Visor Tang	135427-1	09344
Screw, Pan Head, 6-32 x 0.500-Inch, Black	MS51957-30B (NIIN 00-469-5382)	96906
Seal (QDC), Highvolt	189-0638	99747
Seal (UC), Highvolt	008-017-03	0LE36
Sealing Compound	MIL-S-22473, GRADE C, COLOR BLUE	81349
Sealing Compound	M46163-1-2-1-Y	81349
Sealing Compound	MIL-S-46163, TYPE 2, GRADE M, COLOR PURPLE (NIIN 01-054-3968) (NIIN 01-055-6126) (NIIN 01-069-3046)	81349
Sealing Compound	MIL-S-46163, TYPE 2, GRADE N, COLOR BLUE (NIIN 01-014-5869) (NIIN 01-025-1692) (NIIN 01-104-5392)	81349
Snap Kit	G026-1159-01	60240
Spacer Kit, Bayonet	80B4858 (NIIN 01-141-5916)	72724
String, Lacing	MIL-T-43435	81349
Tape, Double-faced, Vinyl, 1 x 2 Inch	A-A-1243	58536
Tape, Reflective, High Intensity, White, 1-Inch	(NIIN 01-082-8927)	94960
Tape, Reflective, High Intensity, White, 3-Inch	(NIIN 01-078-8660)	94960
Tape, Reflective, Orange, 1-Inch, CL 1	L-S-300 (NIIN 00-656-1494)	81348
Tape, Reflective, Orange, 2-Inch, CL 1	L-S-300 (NIIN 00-656-1186)	81348
Tape, Reflective, Red, 1-Inch, CL 1	L-S-300 (NIIN 00-949-7552)	81348
Tape, Reflective, Red, 3-Inch, CL 1	L-S-300 (NIIN 00-949-7598)	81348
Tape, Reflective, White, CL 3	L-S-300 (NIIN 00-100-2153)	81348
Tape, Reflective, Yellow, 1-Inch, CL 1	L-S-300 (NIIN 00-753-3208)	81348
Tape, Reflective, Yellow, 3-Inch, CL 1	L-S-300 (NIIN 00-057-4545)	81348
Tape, Silicone Rubber	MIL-I-23594	81349
Thread, Nylon, Size E	V-T-295	81348
Visor Tang Kit	620532-01-00	06VL3

16. NONSTANDARD TERMS, SYMBOLS, AND ABBREVIATIONS.

17. Table 3 lists abbreviations/symbols and definitions that do not appear in ASME Y14.38M.

18. REFERENCE MATERIAL.

19. Table 4 is a consolidated list of referenced publications or publications used to define terminology which appear through this manual.

Table 3. Abbreviations/Symbols and Definitions

Abbreviations/Symbols	Definitions
ABC	Automatic Brightness Control
CCA	Circuit Card Assembly
CRT	Cathode Ray Tube
CU	Cable Unit
DU	Display Unit
EAL	Energy Absorbing Liner
EEPROM	Electrical Erasable Programmable Read-Only Memory
EI	Engineering Investigation
EU	Electronics Unit
FOD	Foreign Object Damage
FOV	Field of View
HDU	Helmet Display Unit
HMD	Helmet Mounted Display
HMDTS	Helmet Mounted Display Test Set
HOTAS	Hands on Throttle and Stick
HRC	Helmet Removable Connector
HVI	Helmet Vehicle Interface
HVPS	High Voltage Power Supply
IPD	Interpupillary Distance
IRC	In-Line Release Connector
JHMCS	Joint Helmet Mounted Cueing System
LED	Light Emitting Diode
LOS	Line of Sight
MRIL	Master Repairables Item List
MRU	Magnetic Receiver Unit
MTU	Magnetic Transmitter Unit
PPE	Protective Personal Equipment
QD	Quick Disconnect
QDC	Quick Disconnect Connector
QDR	Quality Deficiency Report
QMB	Quick Mounting Bracket
SRA	Shop Replaceable Assembly
TPL	Thermal Plastic Liner
UC	Universal Connector
UUT	Unit Under Test

Table 4. Reference Material

Document Title	Document Identifier
Abbreviations and Acronyms Aircrew Personnel Protective Equipment Aviation Supply Office Publications Distribution of Aeronautic Technical Publication Engineering Drawings Hazardous Materials Information Systems (HMIS) NATOPS General Flight and Operating Instructions	ASME Y14.38M NAVAIR 13-1-6.7-3 P2300 (series) NAVAIRINST 5605.5A MIL-STD-100 DOD 6050.5 OPNAVINST 3710.7 (series)
Naval Air Systems Command Technical Manual Program Naval Supply Procedures, Volume 1, 2, and 3 Navy Hazardous Material Control Program Navy Occupational Safety and Health (NAVOSH) Program Manual Navy Uniform Source, Maintenance and Recoverability (SMR) Codes	NAVAIR 00-25-100 NAVSUP 485 NAVSUPINST 5100.27 OPNAVINST 5100.23 NAVSUPINST 4423.29
Organizational and Intermediate Maintenance with Illustrated Parts Breakdown - TTU-551/E Leakage Tester Part Number 3549AS100	NAVAIR 17-15GB-505
Oxygen Hose and Communication Test Set - Intermediate Maintenance with Illustrated Parts Breakdown	NAVAIR 17-15BC-22
Rescue and Survival Equipment Standard Maintenance Practices, Electronic Assembly Repair The Naval Aviation Maintenance Program (NAMP)	NAVAIR 13-1-6.5 NAVAIR 01-1A-23 OPNAVINST 4790.2 (series)

20. INTRODUCTION TO THE ILLUSTRATED PARTS BREAKDOWN.

21. **GENERAL.** The complete Illustrated Parts Breakdown (IPB) lists and describes the parts required for equipment support and is used for requisitioning, identifying parts and for illustrating disassembly and assembly relation.

22. **GROUP ASSEMBLY PARTS LIST (GAPL).** The GAPL is made up of a breakdown of the complete unit into subassemblies and detail parts. Attaching parts are identified immediately after the item they attach. If the GAPL is extracted from an automated database, all nomenclatures used in the GAPL are in accordance with MIL-STD-100. If the GAPL is manually generated, all symbols and abbreviations used are in accordance with ASME Y14.38M. The GAPL is a six column format as below.

23. Index Number. In this column index numbers are assigned in numerical sequence and are essentially in disassembly sequence. After the index numbers are

assigned in this column, they are added to the illustration of the equipment/repairable.

24. Part Number. This column lists the prime contractor part number, government standard part number, or other vendor part number.

25. Description. This column lists the item nomenclature plus those modifiers required to identify the item. The GAPL is extracted from an automated database and some words may be shortened. The assemblies, subassemblies, and detail parts are indented to show their relation to the main assembly. Attaching parts are listed immediately after the part they attach. They are identified by the words (ATTACHING PARTS), and are followed by the separation symbol ---*---.

26. Commercial and Government Entity (CAGE) Code Numbers. CAGE codes other than those of the manufacturer identified in paragraph 2 and MIL-STD items are designated by CAGE code numbers in () after the nomenclature of the part. This code is from the Commercial and Government Entity (CAGE) Cataloging Handbook H4/H8. If a code has not been assigned, the vendor's complete name and address appears. The CAGE codes are acceptable with MIL-STD parts and end item manufacturer parts if the GAPL is generated from an automated database.

27. If a part is built to a Specification Control Drawing (SCD), the SCD number will be included in () after the item nomenclature or CAGE code.

28. For all items, for example, hoses, lines, tubes, brackets, cables, and so on, coded for local manufacture, the material from which the item is manufactured will be included in () after the item nomenclature or CAGE code number.

29. Items identified as subject to electrostatic discharge **ESD**, has this symbol before the first word in the description column.

30. Units Per Assembly. This column lists the total number of each part required per assembly or subassembly and are not necessarily the total number used in the end item of equipment. The letters 'AR' (as required) are used for items, for example shims, when the requirement may vary. The abbreviation REF indicates the part has been listed and illustrated elsewhere in the IPB and is included in the listing for reference only.

31. Use On Code. This column indicates the usability of parts on different models or series of the equipment. If no letter appears in this column, the part may be used on all models/series of the end item of equipment. Applicable use on codes are identified on the final sheet of each parts list.

32. An asterisk (*) in the Use On Code column identifies alternate or equivalent parts that are interchangeable. When a letter code is followed by an asterisk in the Use On Code column, only the parts with the same letter code are interchangeable. An alternate part may be used when the preferred part is not available. The asterisk is omitted for the preferred part. Equivalent parts are fully interchangeable. No equivalent part is preferred over another. All equivalent parts are identified by asterisks.

33. Source, Maintenance and Recoverability (SM&R) Code. This column contains the SM&R codes as assigned by the government. Definitions of these codes and parts kits information are contained in NAVSUPINST 4423.29. If the validity of a SM&R code is suspect, refer to the Aviation Supply Office P2300 series publications. Refer to [table 6](#) for SM&R Code explanation.

34. NUMERICAL INDEX OF PART NUMBERS. The Numerical Index of Part Numbers (WP00101)

is a complete alphanumeric tabulation of part numbers or noun names if a part number has not been assigned. Alphabetic O's are considered numeric zeros.

35. Part Number Column. This column lists all part numbers that appear in the Part Number column of the GAPL. This column also lists the identifying noun instead of part number when no part number has been assigned. Part numbers are listed in alphanumeric sequence.

36. Work Package/Figure/Index Number Column. This column lists the WP/Fig/Index No. assigned to the associated part number. The numbers are separated by slashes, the first number being the Work Package in which the part number is located, the second is the Figure Number within the WP and the third number is the index number identifying the part number within the figure.

37. NUMERICAL INDEX OF REFERENCE DESIGNATIONS. The numerical Index of Reference Designations (WP00102) lists the reference designation numbers which have been established for components of the equipment covered. The reference designations are assigned by the contractor.

38. Reference Designation Column. The column lists the assigned reference designation number, arranged in alphanumeric sequence. This list contains all reference designation numbers contained in schematic diagrams and text pertaining to the equipment covered by the IPB.

39. Work Package/Figure/Index Column. This column contains the Work Package, Figure and Index Number reference for parts assigned the reference designation.

40. Part Number Column. This column lists the part number of the item assigned the specific reference designation.

41. HOW TO USE THE ILLUSTRATED PARTS BREAKDOWN. The below instructions are provided to assist the user in researching within the IPB.

42. When The Part Number or Reference Designation Is Not Known. Turn to the Alphabetical Index (WP00100) and select the most applicable Group, System, or Component Work Package.

43. Turn to the WP indicated and locate the desired part on the illustration.

44. From the illustration, get the index number for the desired part. Refer to the GAPL for the item part number, identifying noun name, and any other specific information.

45. When The Part Number is Known. Refer to the Numerical Index of Part Numbers (WP00101). Locate the part number and note the Work Package, Figure, and Index Number assigned to the part number.

46. Turn to the WP and Figure indicated and locate the index number referenced.

47. If a picture representation of the part, or its location is desired, refer to the same index number on the accompanying illustration.

48. When the Reference Designation is Known. Refer to the Numerical Index of Reference Designations (WP00102). Locate the reference designation and note the Work Package, Figure and Index Number assigned to that reference designator.

49. Turn to the WP and Figure indicated and locate the index number referenced.

50. If a picture representation of a part, or its location, is desired, refer to the same index number on the accompanying illustration.

51. WARNINGS, CAUTIONS, AND NOTES.

52. Items of special importance and critical information are identified in warnings, cautions, and notes. Warnings and cautions appear immediately before the step to which they apply. Notes may appear before or after the affected step.



Warnings describe conditions or procedures that could result in injury or death if correct procedures are not followed.



Cautions describe conditions or procedures that could result in damage to or destruction of equipment if correct procedures are not followed.

NOTE

Notes describe or clarify conditions or procedures.

53. RECORD OF APPLICABLE TECHNICAL DIRECTIVES.

54. The technical directives affecting this manual are listed in the Record of Applicable Technical Directives of each affected work package. When all affected A/A24A-56 helmet unit, integrated (Joint Helmet Mounted Cueing System) are modified, the before configuration and the technical directive entry are removed from the affected work package.

55. HISTORICAL RECORD OF APPLICABLE TECHNICAL DIRECTIVES.

56. The Historical Record of Applicable Technical Directives is a list of all technical directives that have ever affected this manual. Refer to table 5. Current technical directives now affecting this manual are listed in the Record of Applicable Technical Directives of each affected work package. When a technical directive is rescinded, the before configuration is removed from the manual and the technical directive entry is removed from each affected work package.

57. A Technical Data Indoctrination Package is available for the Joint Helmet Mounted Cueing System, PIN number 113909. It is available in VHS format or electronically on the PMA-202 FAILSAFE web site. For further information, contact your local FAILSAFE Representative or Aeromedical Safety Officer.

Table 5. Historical Record of Applicable Technical Directives

None

Table 6. Navy Application of Joint Uniform SM&R Codes

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	MINESWEEPER	2	MINESWEEPER
	E	EQUIPMENT: SUPPORT, STOCKED FOR INITIAL ISSUE OR OUTFITTING OF SPECIFIED MAINTENANCE ACTIVITIES	3	SUBMARINES	3	SUBMARINES
	F	EQUIPMENT: SUPPORT, NONSTOCKED, CENTRALLY PROCURED ON DEMAND	4	AUX/AMPHIB	4	AUX/AMPHIB
	G	ITEM: STOCKED FOR SUSTAINED SUPPORT. UNECONOMICAL TO PRODUCE AT A LATER TIME	5	DESTROYER, FFG	5	DESTROYER, FFG
	H	ITEM: STOCKED, CONTAINS HAZMAT. HMIS/MSDS REPORTING REQUIRED	6	CRUISER/CARRIER	6	CRUISER/CARRIER
	R	TERMINAL OR OBSOLETE, REPLACED	G	ASHORE AND AFLOAT	G	ASHORE AND AFLOAT
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					
A	O	ITEM: ASSEMBLED AT ORG/UNIT	L	INTERMEDIATE SRA	L	INTERMEDIATE SRA
	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	REF ONLY	Z	NON-REPAIRABLE
	B	ITEM: NOT PROCURED OR STOCKED, AVAILABLE THRU SALVAGE, REQ. BY CAGE/PART NUMBER				
	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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