

CHAPTER 5

PRESSURE-DEMAND OXYGEN MASK ASSEMBLIES

Section 5-1. Description

5-1. GENERAL.

5-2. The oxygen mask assemblies covered in this chapter are pressure-demand type masks used in conjunction with the lightweight helmet assemblies used aboard fixed wing aircraft.

5-3. The oxygen mask assemblies covered in this chapter are designed to be worn over the face, forming a seal to the cheeks over the bridge of the nose and under the chin. The mask is designed for use with a regulator which provides breathing gas (100% oxygen or oxygen diluted with air) upon demand at a pressure schedule dependent on the altitude. The mask can also be used with continuous flow bailout or walkaround oxygen sources. The mask provides facial protection from projectiles and fire as well as being qualified for depths of 16 feet under water. A properly fitted oxygen mask is essential to helmet retention in high-speed ejections. The facepiece permits utilization of the valsalva maneuver to equalize pressure in the middle ear during descent.

5-4. CONFIGURATION.

5-5. The pressure-demand type oxygen mask configurations covered in this chapter are built up by adding and/or removing major components to and/or from the basic MBU-12/P oxygen mask subassembly to obtain the desired configuration. The desired configuration is dependent upon the aircrew or aircraft application. Refer to [table 5-1](#) and [table 5-2](#).

NOTE

The configuration portion of this chapter is divided into two general categories: Major Oxygen Mask Assemblies and Major Oxygen Mask Components, plus a brief description following each subcomponent.

5-6. MAJOR OXYGEN MASK ASSEMBLIES. The following are the major oxygen mask assemblies covered in this chapter as well as a brief description of each. See [figures 5-1 through 5-6](#).

5-7. The MBU-14(V)1/P Oxygen Mask Assembly. The MBU-14(V)1/P oxygen mask assembly is designed for use in aircraft where the mask is required at all times and an audio amplifier is required for communication compatibility. The MBU-14(V)1/P is used with a helmet and chest-mounted miniature regulator. See [figure 5-1](#).

5-8. The MBU-15/P Oxygen Mask Assembly. The MBU-15/P oxygen mask assembly is designed for use in the S-3 aircraft where the mask is used interchangeably with a boom microphone, and an audio amplifier is required for communication compatibility. The MBU-15/P is used with the HGU-49/P and HGU-68(V) helmets incorporating the binaural CX-13128/A and the 40-inch CX-13017/AR communication cables. The 40-inch cable is secured to the regulator-to-seat kit hose. The mask is outfitted with the CRU-79/P series miniature regulator. See [figure 5-2](#).

5-9. The MBU-16/P Oxygen Mask Assembly. The MBU-16/P oxygen mask assembly is designed for use in the AV-8 Series and F/A-18 aircraft where an oxygen mask is required at all times, and an audio amplifier is required for communication compatibility. The MBU-16/P is used with a helmet and is outfitted with the MS27796 connector for use with the OBOGS chest-mounted, diluter-demand regulator. See [figure 5-3](#).

5-10. The MBU-17(V)1/P Oxygen Mask Assembly.

The MBU-17(V)1/P oxygen mask assembly is designed for use in aircraft where the mask is used interchangeably with the boom microphone, and an audio amplifier is required for communication compatibility. The mask is fitted with the MC-3A connector for use with a panel-mounted regulator, walkaround unit, or bailout bottle. See [figure 3-4](#).

5-11. The MBU-17(V)2/P Oxygen Mask Assembly.

The MBU-17(V)2/P oxygen mask assembly is designed for use in aircraft where the mask is used interchangeably with a boom microphone, and an audio amplifier is not required for communication compatibility. The mask is fitted with the MC-3A connector for use with a panel-mounted regulator, walkaround unit, or bailout bottle. See [figure 3-5](#).

5-12. The MBU-17(V)5/P Oxygen Mask Assembly.

The MBU-17(V)5/P oxygen mask assembly is designed for use in the E-2C aircraft which is equipped with the crew backpack escape system. The mask is fitted with the CRK-90 connector for use with a panel-mounted regulator or the emergency escape oxygen system. See [figure 3-6](#).

5-12A. The MBU-17(V)6/P Oxygen Mask Assembly.

The MBU-17(V)6/P oxygen mask assembly is designed for use in the F-5 aircraft. The mask is fitted with the M22442/33-4707 communications cable for compatibility with the F-5 communications system.

5-12B. The MBU-17(V)8/P Oxygen Mask Assembly.

The MBU-17(V)8/P oxygen mask assembly is designed for use in the MV-22 aircraft. The mask is fitted with the N100493-00, 10-Volt microphone and amplifier for compatibility with the MV-22 communications system.

5-13. MAJOR OXYGEN MASK COMPONENTS.

The following paragraphs contain the major components of the oxygen mask and a brief description of each. It is required that these components be added to the basic MBU-12/P oxygen mask to obtain the desired oxygen mask configuration. Refer to [table 3-1](#) for component application.

5-14. MBU-12/P Oxygen Mask Subassembly.

The MBU-12/P is a lightweight, low profile, pressure-demand type oxygen mask. The mask features an integral facepiece/hardshell. The facepiece is pliable silicone and the hardshell is polysulphonate. The mask also features a combination inhalation/exhalation valve and a flexible soft silicone hose. The mask is fitted with an antistretch cord which is secured at the upper end to the valve. When the oxygen mask assembly is built up, the lower end of the antistretch cord will be secured to either the miniature regulator, the MS27796 connector, or the MC-3A connector. The hardshell is outfitted with a microphone receptacle assembly on the outside and a microphone bracket on the inside for positioning of the noise cancelling microphone.

5-15. Offset Bayonets and Bayonet Receivers.

The bayonet receivers come with the helmet assembly and

are installed at the time the oxygen mask is fitted. The offset bayonets are used to attach the oxygen mask to the helmet through the use of the bayonet receivers and must be requisitioned separately.

5-16. Connectors and Regulators. The connectors are used for the purpose of attachment to regulators and walkaround units. The regulators are used to control the flow of oxygen into the oxygen mask.

5-17. Communication Cable Assemblies. Each of the oxygen mask assemblies is outfitted with the appropriate communication components for operation with an aircraft ICS (Intercommunication System).

5-18. M-101/AIC Microphone and AM-7067/A Amplifier. The M-101/AIC microphone is a noise canceling dynamic microphone. The AM-7067/A amplifier is a microphone preamplifier designed to be installed in place of the oxygen mask receptacle assembly on specific aircraft.

5-19. SUPPLEMENTARY EQUIPMENT.

5-20. OXYGEN MASK STORAGE BAG. For those oxygen masks worn with the PCU series torso harness, the optional use of an oxygen mask storage bag, fabricated and installed in accordance with [paragraph 3-84](#), is authorized.

5-21. FUNCTION.

5-22. When properly fitted, the MBU-12/P oxygen mask will retain a pressure in excess of ambient pressure up to the maximum pressure supplied by the regulator.

5-23. The MBU-12/P oxygen mask subassembly features a combination inhalation/exhalation valve. The valve offers the advantage of miniature size, but does exhibit slightly higher exhalation resistance. The valve is sensitive to both dust and contamination.

5-24. Operation of the valve is very simple. The valve is installed in the mask hardshell such that one side of the valve 'sees' mask pressure and the other side 'sees' hose pressure. See [figure 3-7](#). Upon inhalation, the pressure within the mask becomes less than the pressure within the oxygen hose; the flapper of the valve opens and oxygen from the hose enters the oxygen mask. See [figure 3-8](#). Upon exhalation, the pressure within the mask becomes greater than the pressure within the hose; the flapper closes and the spring/diaphragm collapses, and the exhalation is exhausted. See [figure 3-9](#).

5-25. GROUND SUPPORT EQUIPMENT.

5-26. OXYGEN HOSE AND COMMUNICATIONS TEST SET TTU-489/E.

The TTU-489/E Test Set is presently the only one available to perform the functional test. Refer to NAVAIR 17-15BC-22. If this test set is not available, standard shop procedures should be used to perform required tests.

Table 5-1. Oxygen Mask Configuration Matrix

Mask Designator	Mask	Connector			Mike and Amp			Cables					Regulator (Note 4)			Regulator to Seat Kit Hose Assy			Misc.	
	MBU-12/P	MS27796 (Note 1)	MC-3A (Note 2)	CRK-90 (Note 5)	Receptacle Assembly (Note 3)	M-101/AIC	AM-7067/A	P/N N100493-00, 10 Volt	CX-13126A/A	CX-13127/A	CX-13154/A	CX-4434U/16 In.	M22442/33-4707	Miniature Regulators (LOX Aircraft Only) CRU-79/P Series	Panel Mounted or Walkaround	Torso Mounted	33C1138-2	33C1178-1	12080-2	Offset Bayonets
MBU-14(V)1/P	X	-	-	-	-	X	X	-	X	-	-	-	-	X	-	-	X	X	X	X
MBU-15/P (Note 6)	X	X	-	-	-	X	X	-	-	X	-	-	-	X	-	-	-	X	-	X
MBU-16/P	X	X	-	-	-	X	X	-	X	-	-	-	-	-	-	X	-	X	-	X
MBU-17(V)1/P	X	-	X	-	-	X	X	-	-	-	X	-	-	-	X	-	-	-	-	X
MBU-17(V)2/P	X	-	X	-	X	X	-	-	-	-	X	X	-	-	X	-	-	-	-	X
MBU-17(V)5/P	X	-	-	X	-	X	X	-	-	-	X	-	-	-	X	-	-	-	-	X
MBU-17(V)6/P	X	X	-	-	X	X	-	-	-	-	-	-	X	-	-	X	-	-	-	X
MBU-17(V)8/P	X	-	-	-	-	-	-	X	-	-	-	X	-	-	-	-	-	-	-	X

Legend: X = Required
- = Not Applicable

Notes:

- MS27796 connector is supplied with the MBU-12/P oxygen mask subassembly or can be procured separately.
- MC-3A connector used with panel mounted regulator and walkaround unit.
- Receptacle assembly is supplied with MBU-12/P oxygen mask subassembly.
- Regulators are not a part of the oxygen mask configuration. Shown here for information only. (Refer to NAVAIR 13-1-6.4-2)
- CRK-90 oxygen connector is only used in E-2C aircraft equipped with backpack emergency equipment.
- S-3 aircraft authorized to use CRU-79/P regulator.

Table 5-2. Oxygen Mask Application Matrix

Mask Designator	Fighter/Reconnaissance				Attack		ASW	Electronics		Tanker	Cargo Transport	Trainers								Tilt Rotor
	All Fighters	F/A-18	All Reconnaissance	F-5 Series	AV-8B	All Other Attack	S-3 Series	E-2C	EA-6 Series	KC-130	C-2A Pilot & Copilot	T-2C	TA-4 Series	TA-7C	TAV-8B	TE-2C	T-34 Series	T-38 Series	T-45 Series	MV-22
MBU-14(V)1/P	X	X	X	-	-	X	-	-	X	-	-	X	X	X	-	-	-	-	-	-
MBU-15/P	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-
MBU-16/P	-	O	-	-	X	-	-	-	-	-	-	-	-	-	X	-	-	-	X	-
MBU-17(V)1/P	-	-	-	-	-	-	-	X	-	X	-	-	-	-	-	X	-	-	-	-
MBU-17(V)2/P	-	-	-	-	-	-	-	-	-	O	X	-	-	-	-	-	X	-	-	-
MBU-17(V)5/P (Not [redacted])	-	-	-	-	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-
MBU-17(V)6/P	-	-	-	X	-	-	-	-	-	-	-	-	-	-	-	-	-	X	-	-
MBU-17(V)8/P	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	X

Legend: X = Required -- = Not Applicable
O = Alternate

Notes: 1. The MBU-17(V)5/P mask is required only for all E-2C aircraft equipped with backpack escape system.

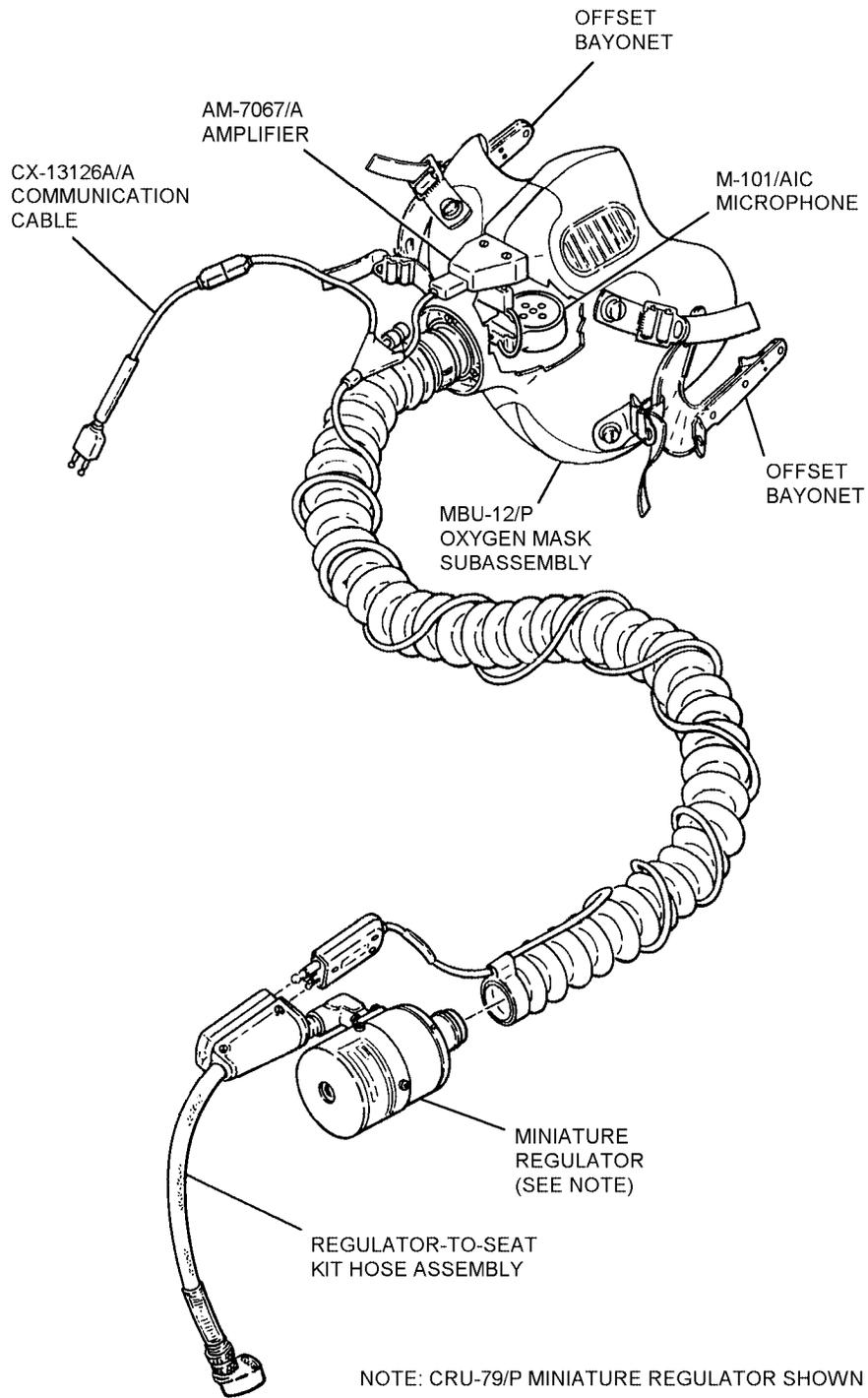


Figure 5-1. MBU-14(V)1/P Oxygen Mask Assembly

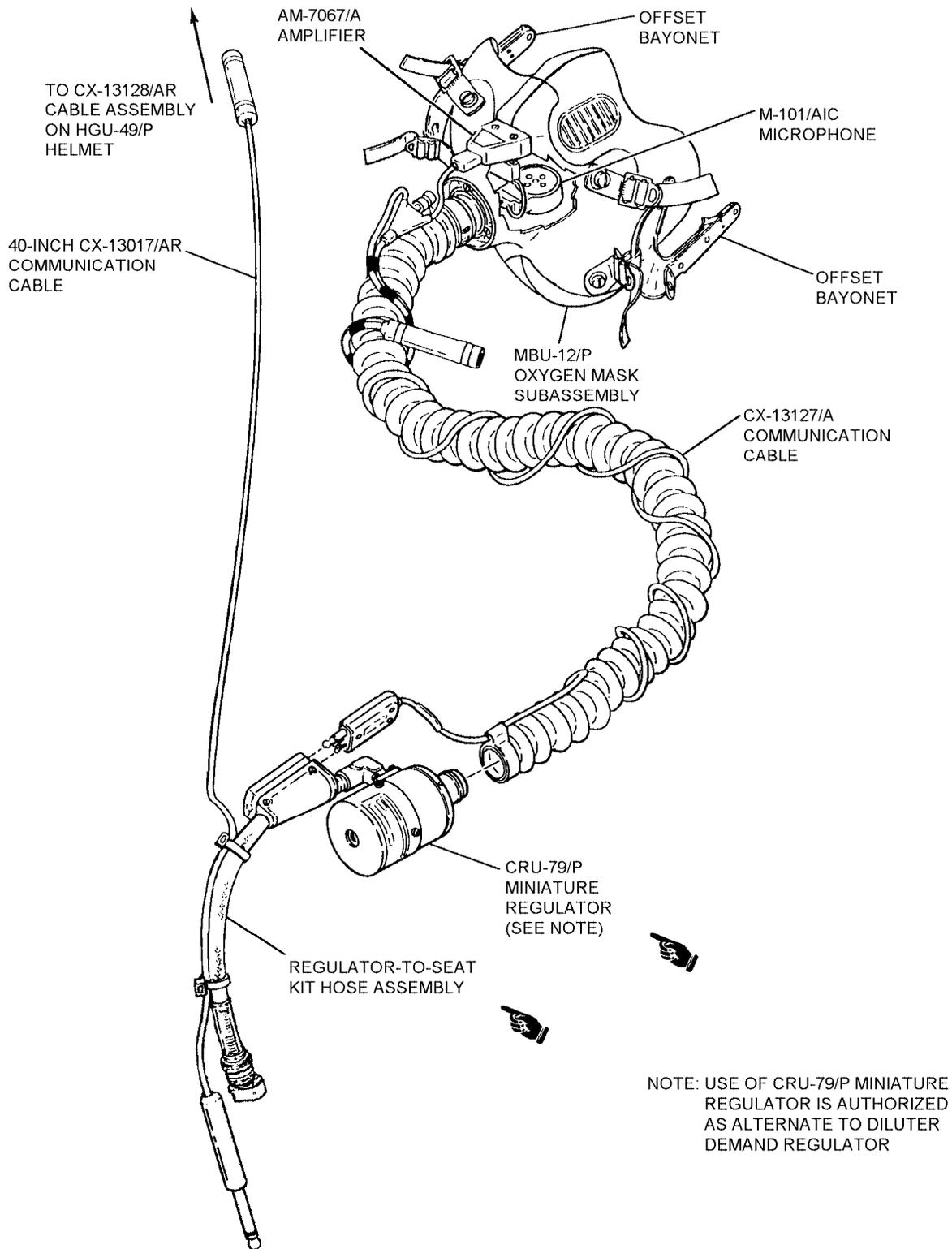


Figure 5-2. MBU-15/P Oxygen Mask Assembly (S-3 Aircraft)

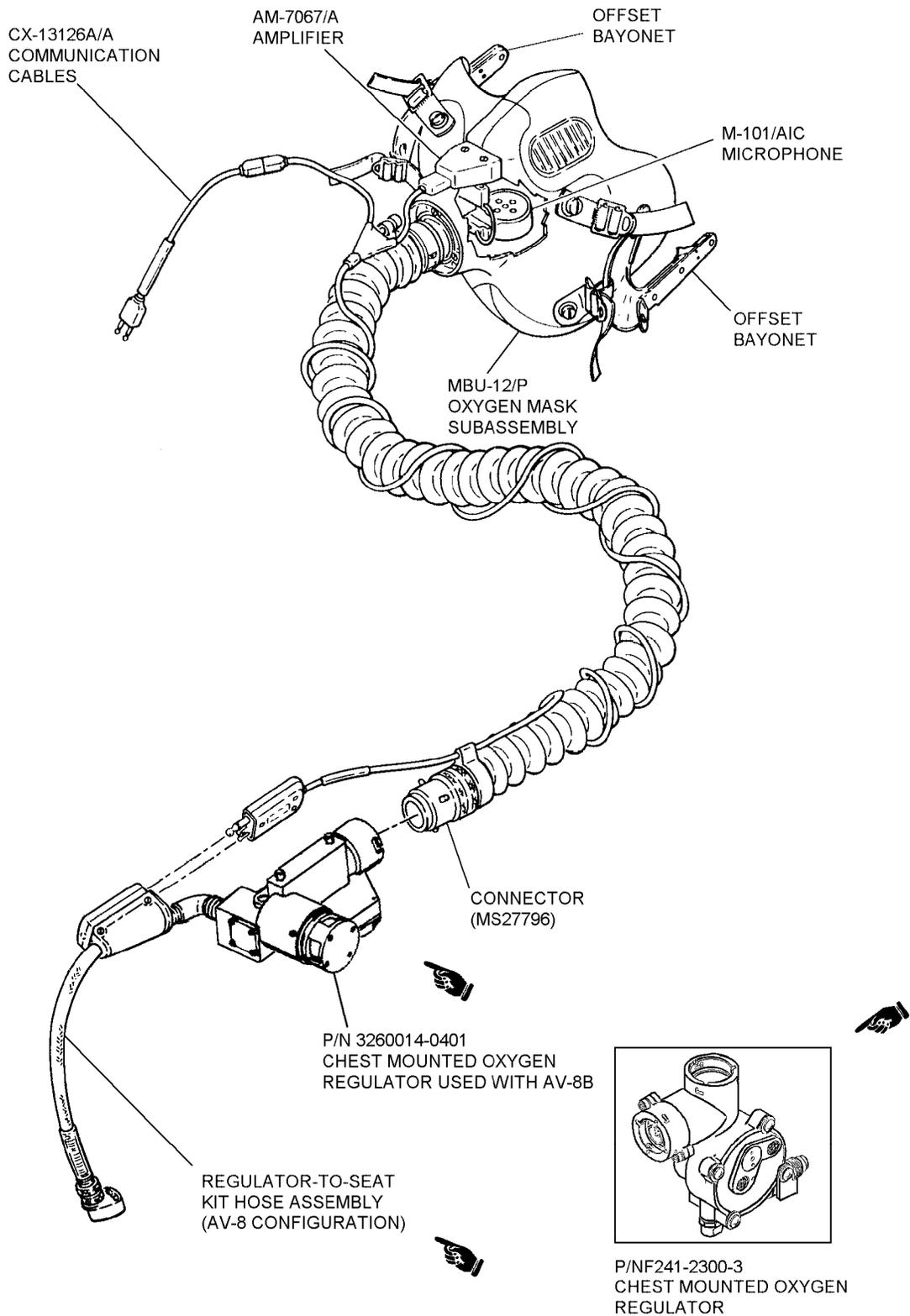


Figure 5-3. MBU-16/P Oxygen Mask Assembly (AV-8 Series and F/A-18 Aircraft)

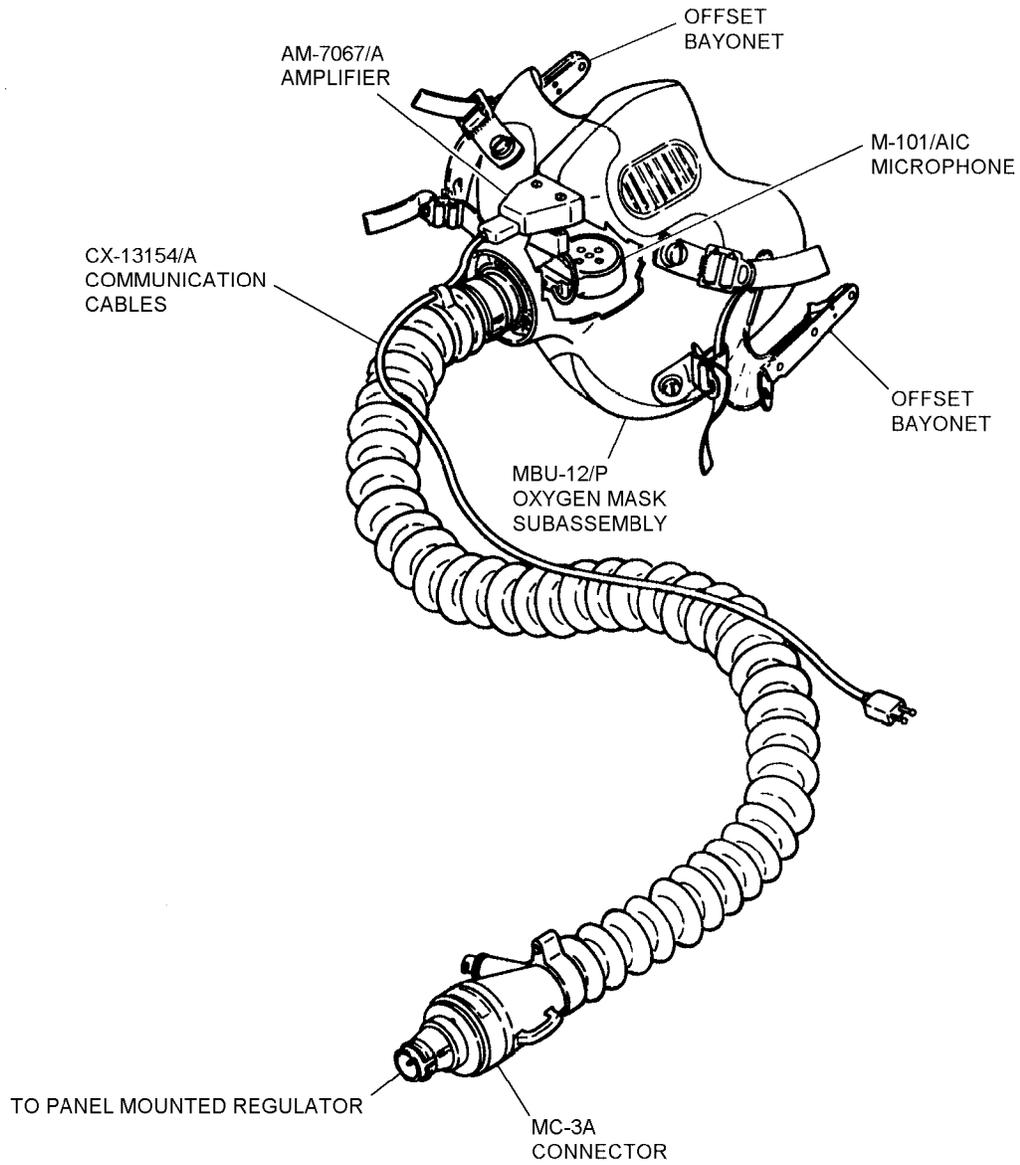


Figure 5-4. MBU-17(V)1/P Oxygen Mask Assembly

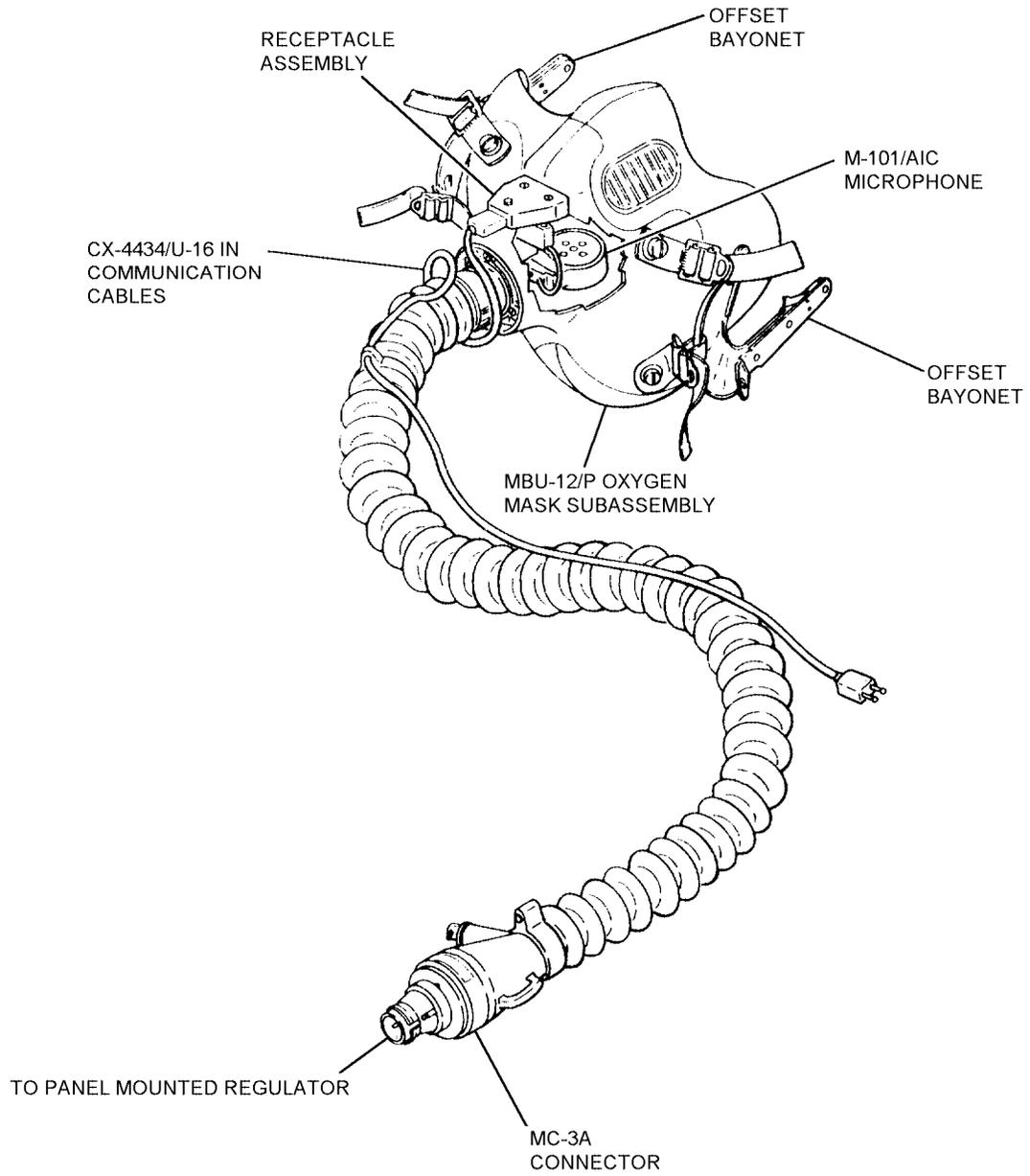


Figure 5-5. MBU-17(V)2/P Oxygen Mask Assembly

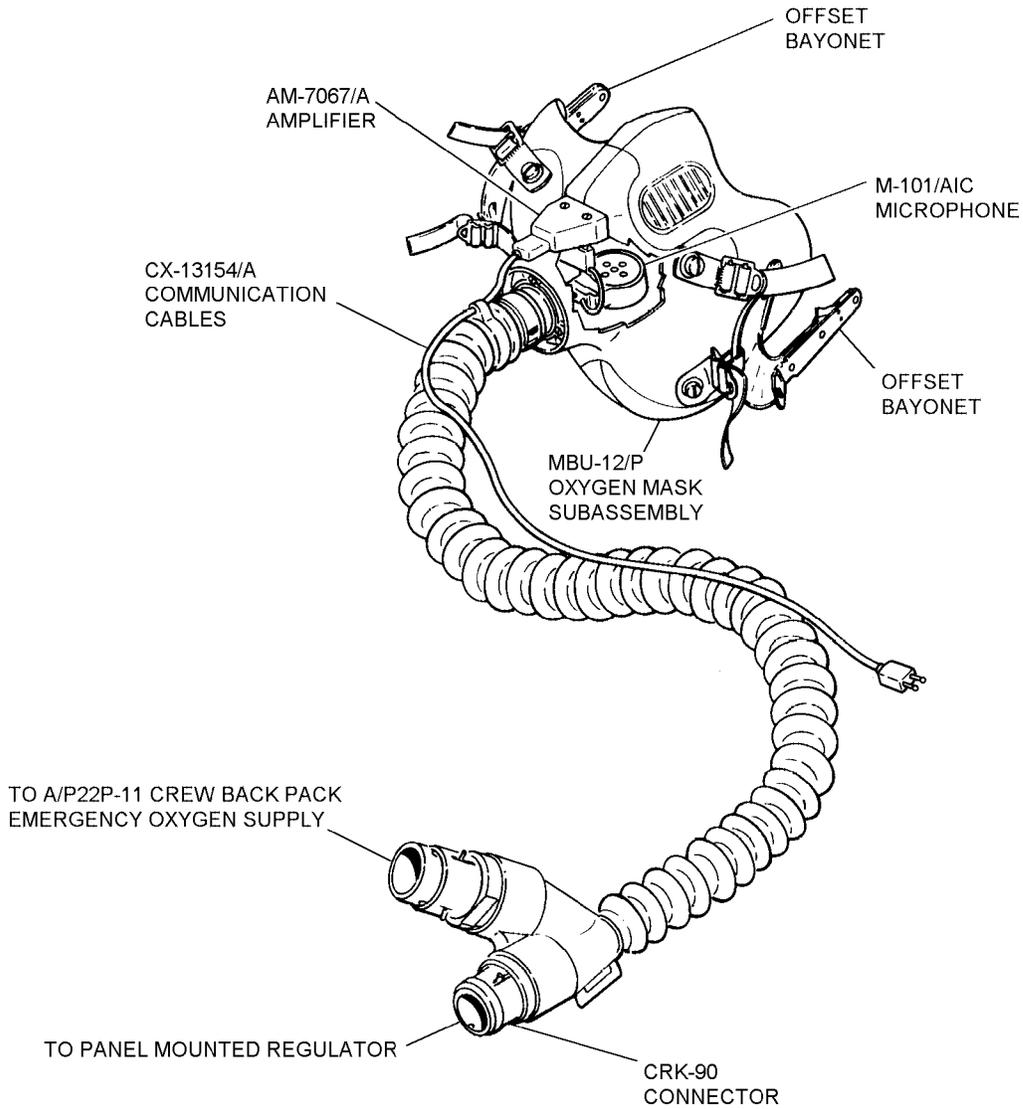


Figure 5-6. MBU-17(V)5/P Oxygen Mask Assembly (E-2C Aircraft)

5-27. SPECIAL TOOLS. Special tools are available for sizing oxygen masks and installing components on oxygen mask assemblies. See [table 5-3](#).

5-28. APPLICATION.

5-29. The oxygen mask assemblies covered in this chapter are designed for use by aircrewmembers aboard the aircraft listed in [table 5-2](#).

5-30. REFERENCE NUMBERS, ITEMS, AND SUPPLY DATA.

5-31. [Section 5-6](#). Illustrated Parts Breakdown, will contain information on each assembly, subassembly, and component part of this series of oxygen mask assemblies. It will also contain figure and index numbers, reference or part numbers, description, units per assembly and usable on codes are provided with the breakdown.

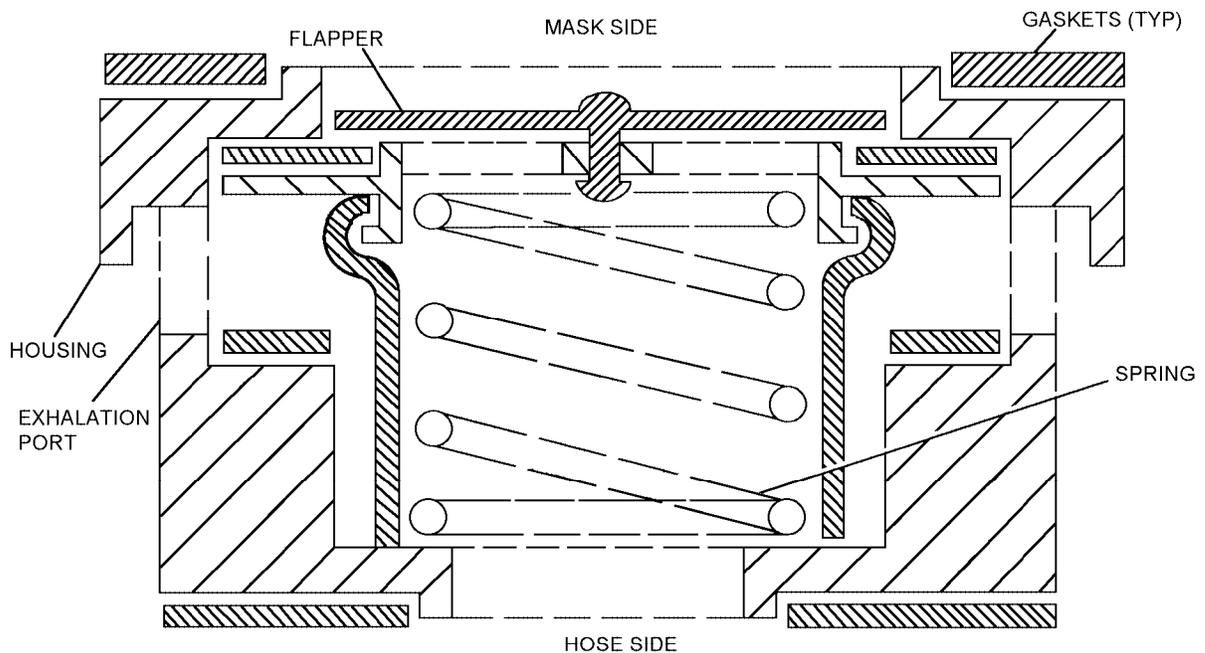


Figure 5-7. Cross Sectional View of a Combination Inhalation/Exhalation Valve

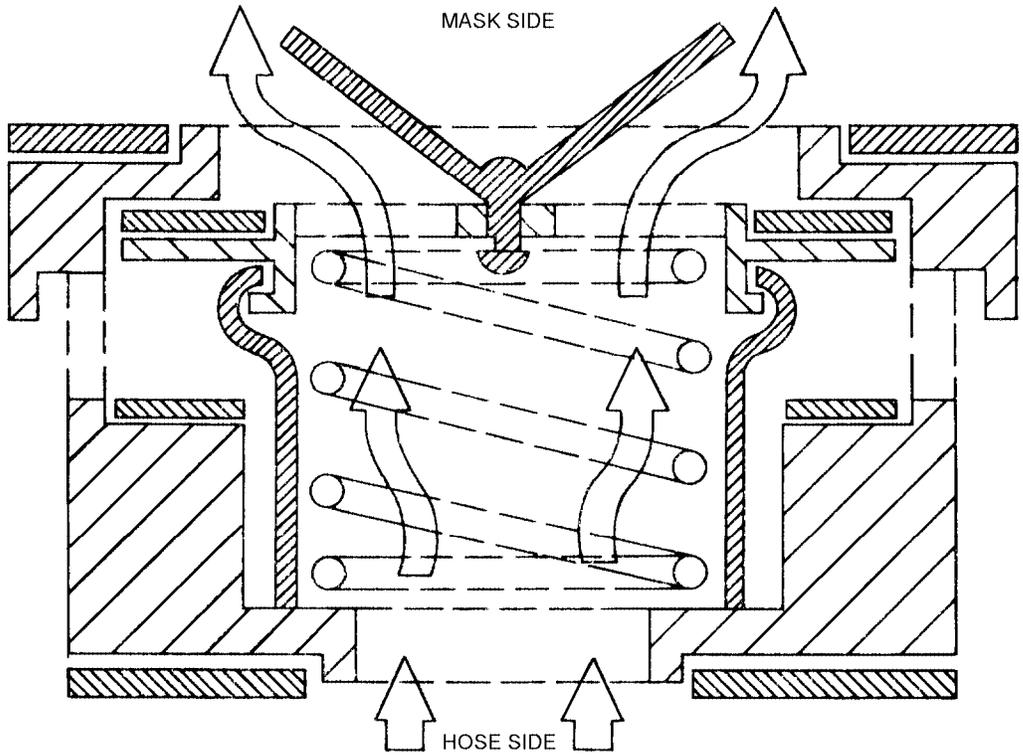


Figure 5-8. Cross Sectional View of Valve During Inhalation

5-8

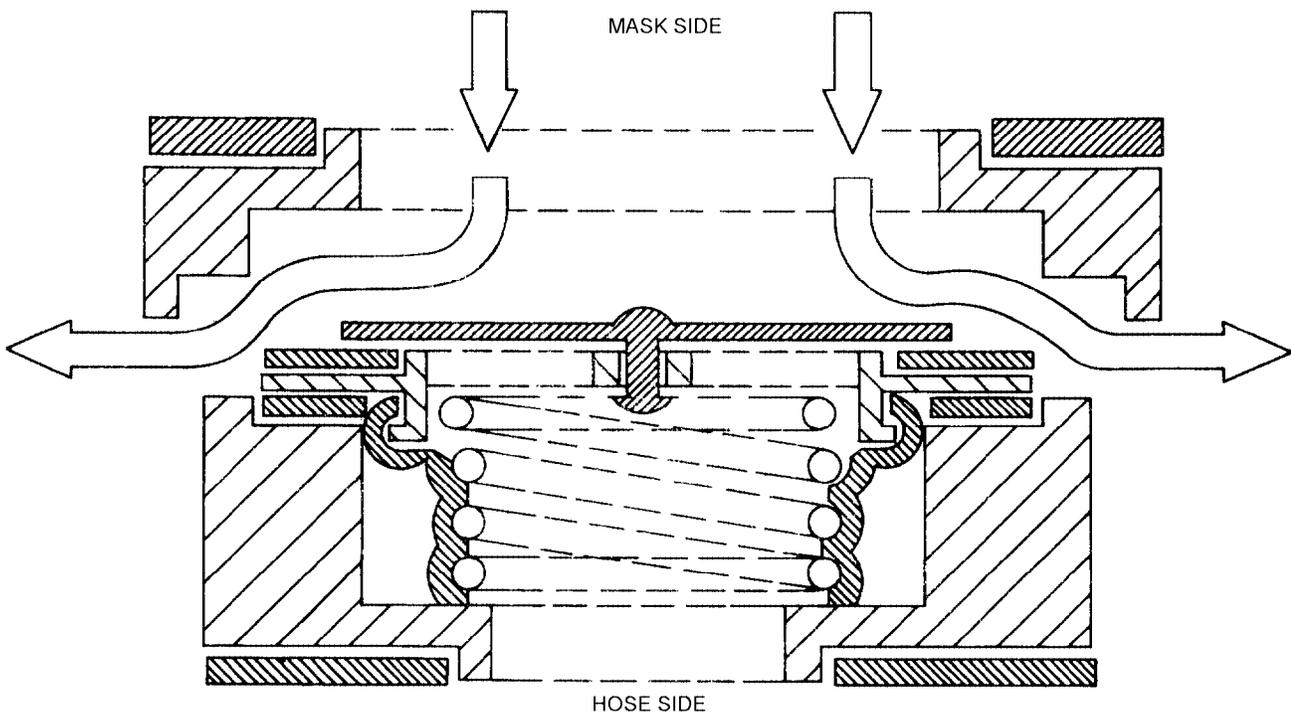


Figure 5-9. Cross Sectional View of Valve During Exhalation

5-9

Table 5-3. Special Tools

Tool Number	Nomenclature	Use and Application
P/N 00-6297 (CAGE 53655)	Elastrator	Insertion of cables through cable guides and removal of cable guide from delivery tube
P/N 211-838-1 (CAGE 53655)	Valve Wrench (Note 1)	Valve nut removal and installation
P/N 834-800 (CAGE 53655)	Mask Sizing Caliper (Note 1)	Facial contour measurement
P/N 450-813 (CAGE 53655)	Upper and Lower Hose Clamp Pliers (Note 1)	Removal of upper and lower hose clamps
P/N MS90387-1 (CAGE 28210)	Installation Tool	Installation of upper and lower hose tiedown straps

Notes: 1. Tools provided in parts kit P/N 450-50 (CAGE 15927 or 53655).
 2. All tools used with oxygen equipment shall be clean and free of grease.

Section 5-2. Sizing

5-32. GENERAL.

5-33. The concept of sizing as used in this chapter refers to the basic methods to be followed by the Aircrew Survival Equipmentman for requisitioning the proper size oxygen mask assembly from supply. Once the basic oxygen mask size has been determined and requisitioned, the MBU-12/P oxygen mask is ready for buildup to the ultimate configuration desired (Section 5-3).

5-34. SIZING.

5-35. SIZING THE BASIC MBU-12/P OXYGEN MASK ASSEMBLY. To select the proper size oxygen mask for the aircrewmember, proceed as follows:

NOTE

There are four mask sizes from which to choose the proper fit.

Materials Required

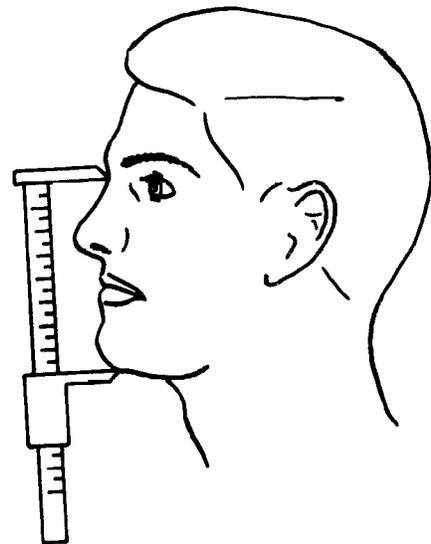
Quantity	Description	Reference Number
1	Mask Sizing Caliper	P/N 834-800 (CAGE 53655)

1. Ensure that the individual's facial muscles are relaxed and that the jaws are lightly closed.

NOTE

The mask sizing caliper is only a beginning tool, and trial and error fitting of more than one size mask may be necessary. If the proper size mask cannot be determined, contact the local Aviation Physiologist for assistance.

2. Measure the distance from the bridge of the nose (maximum depression of the nasal root) to just underneath the chin bone.



NOTE: HOLD CALIPER AS SHOWN ABOVE TO READ MBU-12/P MASK SIZE. OPPOSITE SIDE INDICATES MBU-5/P SIZES AND IS NOT TO BE USED.

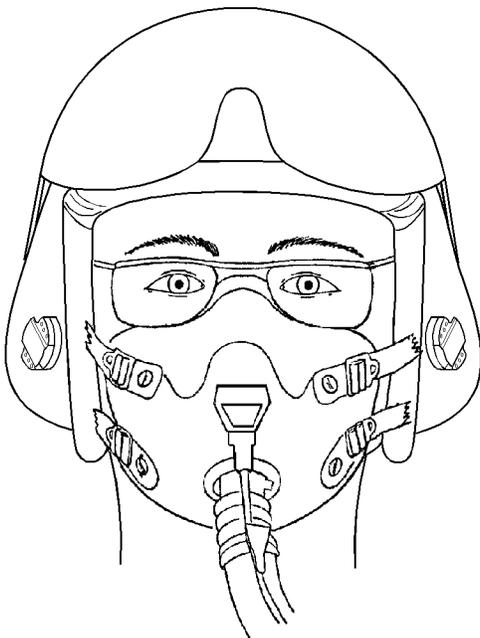
5p35s2

Step 2 - Para 5-35

NOTE

Aircrewmembers who will be wearing personal prescription glasses, aviator sunglasses, or laser spectacles during flight should be wearing these items while checking for proper mask size. These items should also be worn while fitting helmet liners.

3. Using the mask size indicated by the calipers, place the mask on the individual's face. Mask should normally be positioned at least a finger width below the nose bridge indentation in order to provide optimum downward vision. Ensure mask feels comfortable to the individual. If vision is impaired, try the next smaller mask size. If mask is uncomfortable, try the next larger size mask.



Step 3 - Para 5-35

5p35s3

4. Have the aircrewman hold the mask to his/her face in the correct position. Seal off the hose, by manually twisting, and have the individual exhale sharply into the mask. Blow-by into the eyes is unacceptable since dry oxygen may cause eye irritation. If blow-by is encountered, try the next smaller size mask and repeat steps 3 and 4.

5. Again seal the hose off and have the individual inhale and exhale. Ensure the mask seals around the entire

periphery. If leaks are evident, try the next smaller size and repeat steps 3 through 5.

6. Again seal off the hose and have the individual inhale strongly, mask should stay in position on the individual's face without holding it. If it does not try the next smaller size mask and repeat steps 3 through 6.

5-36. INSTALLATION OF THE PAD ADAPTER (OPTIONAL).

The pad adapter is designed to allow custom fitting of the nose bridge area of the mask to provide additional comfort and to prevent leaks or "Blow-By" in the nose-to-nose area of the mask. To install, proceed as follows:

Materials Required

Quantity	Description	Reference Number
1	Pad Adapter	P/N G012-1094 (CAGE 60240) NIIN 01-232-5141
As Required	Adhesive, RTV	MIL-A-46146A Type 1 NIIN 00-118-2695
2	Clothes Pin, Spring Type	Commercial

1. Locate the yellow dot on the one side of the pad adapter.

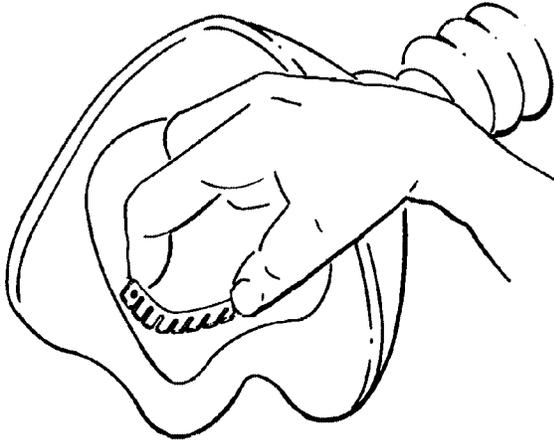
2. Bend the pad adapter by hand to approximately the shape of the inside curvature of the nose area of the mask, making certain the yellow dot is on the concave (inside) side of the resulting curved shape.



Step 2 - Para 5-36

5p36s2

3. Insert the pad adapter into the nose area of the mask between the faceseal flange and the outside layer of the silicone. Check to ensure the slits in the pad are properly aligned to the corresponding ribs in the nose section of the mask.



Step 3 - Para 5-36

5p36s3

4. Insert a small amount, or dot, of RTV silicone between the pad and the inside of the mask and use a flat toothpick to spread RTV evenly on flat surface of pad. Secure in place with spring type clothes pins until the silicone cures (approximately 24 hours).

5. To prevent damage to the internal ribs of the mask when removing the pad for cleaning, carefully peel the silicone away from the mask and pad. Replace pad as needed.

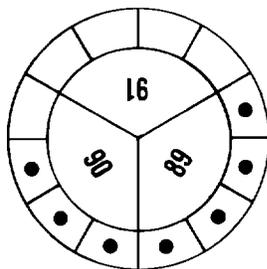
6. Have the individual being fitted, don the mask. Using the thumb and forefinger, custom shape the nose area of the mask to the wearer's nose until an airtight, but comfortable, fit is obtained.

7. Again seal off the nose area and have the individual exhale strongly. If necessary, pinch shape the area, as in [step 6](#) until blow-by is eliminated.

Section 5-3. Oxygen Mask Configuration Buildup

5-37. GENERAL.

5-38. Once the basic MBU-12/P oxygen mask and components are received, carefully inspect the shipping containers for evidence of damage or signs of abuse. Open each container and verify that all the required items have been included. If any parts are defective, damaged, or missing, replace all parts in the shipping container, prepare a Quality Deficiency Report (QDR), and notify the proper authority (CFA). Obtain as much information from the deficient mask as possible; information such as Contract Number, manufacturers name (CAGE), part number, size, and year and quarter of manufacture. Most equipment carries a warranty period, CFA's can provide this information. The year and quarter of manufacture can be found on every mask on the left side cheek flap as shown below. Example indicates item manufactured in 3rd quarter 1990.



NUMBER INDICATES YEAR OF MANUFACTURE. TOTAL NUMBER OF DOTS IN ANY YEAR SEGMENT INDICATES QUARTER OF YEAR FOR EACH DOT.

5p38

5-39. Once the oxygen mask and related components have been accepted the mask may be built up by adding or removing major components to obtain the desired configuration for required aircrew or aircraft applications. This section, used in accordance with [tables 5-1](#) and [5-3](#), should provide enough information for one to accomplish this task.

5-40. ASSEMBLY OF COMPONENTS.

5-41. ORDER OF ASSEMBLY. To assemble the various oxygen mask configurations, install the appropriate component parts onto the MBU-12/P oxygen mask assembly in accordance with and in the order shown in [tables 5-4](#) through [5-9](#).

5-42. INSTALLATION OF BAYONET RECEIVER ASSEMBLY. To install the bayonet receiver assembly, proceed as follows:

NAVAIR 13-1-6.7-3

Materials Required		
Quantity	Description	Reference Number
1	Bayonet Receiver Assembly	93A8514 (CAGE 97427)
1	Bayonet, LH	70280-10 NIIN 00-186-0276
1	Bayonet, RH	70280-20 NIIN 00-186-0277
As Required	Adhesive, Polychloroprene, Class 3	MIL-A-5540 NIIN 00-515-2246
As Required	Adhesive, RTV 102/732	MIL-A-46106 NIIN 00-877-9872
As Required	Thread, Nylon, Type E	V-T-295 NIIN 00-244-0609



Ensure that TPL assembly and chin/nape strap assembly are properly fitted and adjusted to aircrewmember's head prior to drilling holes in helmet shell assembly. Location/alignment of the bayonet receiver assembly is critical, since the bayonet receivers are not adjustable.

1. Have aircrewmember don properly fitted helmet assembly.

NOTE

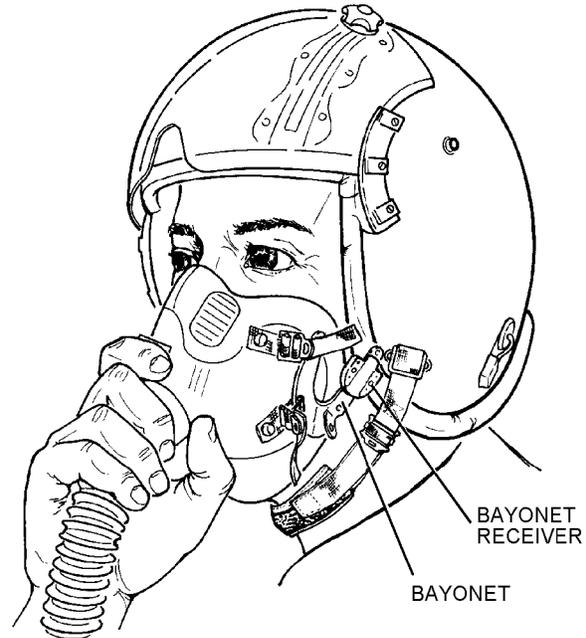
Aircrewmembers who will be wearing personal prescription glasses, aviator's sunglasses, or laser spectacles during flight, should be wearing those items while fitting the mask.

2. With helmet properly fitted and oriented on head, have aircrewmember hold oxygen mask in proper position on face. Lower visor until contours of mask and visor are fully mated. Lock visor in place.

3. Insert each bayonet of oxygen mask harness assembly into a bayonet receiver to the second locking posi-

tion. The projections on bayonet receiver should be positioned toward the tip end of the oxygen mask bayonet.

4. While aircrewmember holds properly adjusted oxygen mask to face, ensure that the straps of the oxygen mask have equal tension.



5p42s4

Step 4 - Para 5-42

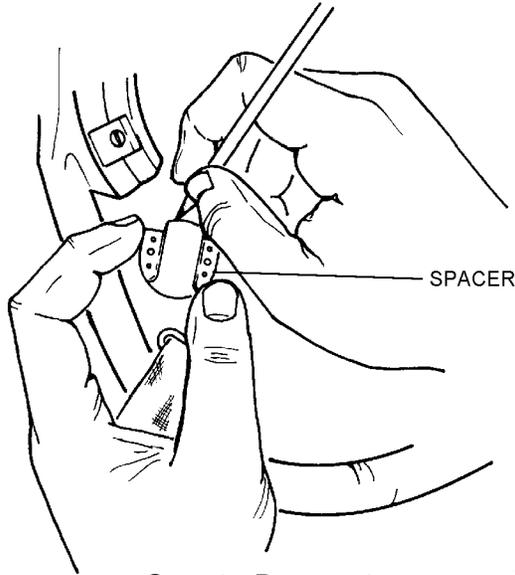
NOTE

Ensure that placement of bayonet receivers is no closer than 1/2 inch from edge of helmet shell assembly.

5. While holding bayonet receiver assemblies firmly against the helmet shell assembly, ensure offset bayonet is flush with and parallel to helmet shell assembly edge-roll. Then, trace outline of each bayonet receiver with a lead pencil onto the helmet shell assembly. Do not use marker or grease pencil.

5A. Using a razor knife, cut out and remove any portion of the leather visor retention buffer pad inside area selected for jaw receiver installation.

6. While holding only the bayonet receiver spacers against the helmet shell assembly at marked positions, use a lead pencil to mark the location of the upper receiver screw hole onto the right and left hand sides of the helmet shell assembly.



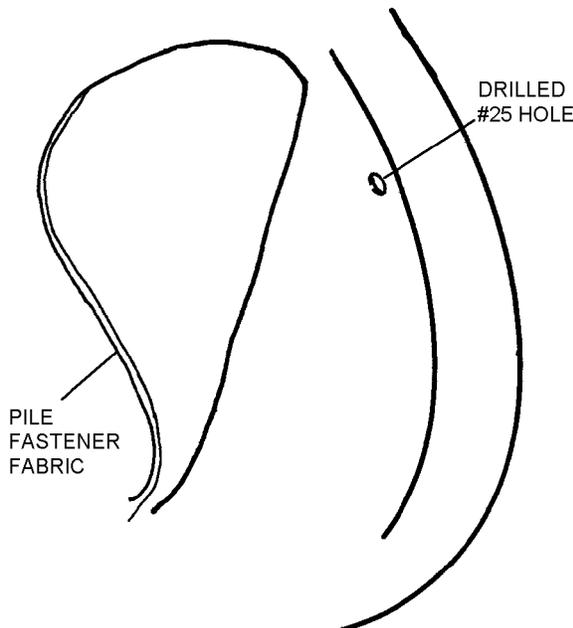
Step 6 - Para 5-42

5p42s6

NOTE

When drilling holes in helmet shell assembly, ensure that drill is held perpendicular to helmet shell assembly.

7. Remove mask and helmet from wearer and remove earcup assemblies. Hold pile fastener fabric inside helmet shell assembly away from area to be drilled. At the marked hole locations, drill each screw hole using a number 25 drill.



Step 7 - Para 5-42

5p42s7

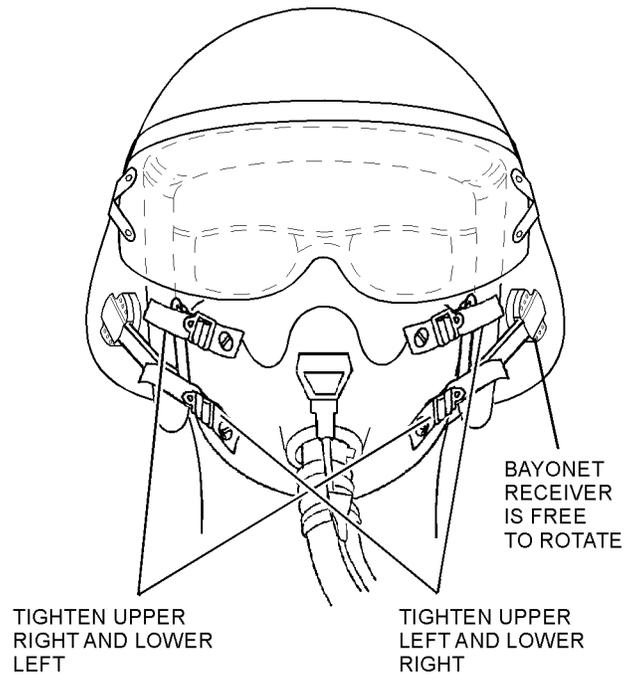
8. Attach only right and left hand receivers to helmet shell assembly using the upper screw, lock washer, and backup plate. Do not tighten screw more than four turns, allowing the assembly to rotate to its optimum location for the user, during mask fitting.

9. Reinstall earcup assemblies and have aircrewmember don helmet assembly and oxygen mask assembly, again inserting each bayonet into the second locking position of receiver.

NOTE

When experiencing difficulty inserting the bayonet into the bayonet receiver due to helmet shell edgeroll interference, fabricate and install bayonet receiver shims in accordance with paragraph 5-43 steps 1 through 4.

10. Readjust the straps on the mask tightening upper left and lower right straps together, then upper right and lower left straps together, keeping mask centered on face and equalizing tension on straps. While tightening straps, allow bayonet receivers to rotate freely to their optimum location for the individual. Lower visor and tighten visor knob. Visor cutout should mate with mask profile. Ensure comfortable, air tight fit of the mask is achieved by having crewman breathe while manually twisting the oxygen hose to cut off air supply through hose. If leaks occur between mask and face, check the following.



Step 10 - Para 5-42

5p42s10

Table 5-4. MBU-14(V)1/P Assembly of Components

Order of Assembly	Component/Assembly to be Installed	Paragraph Reference
1	Offset Bayonets and Bayonet Receivers	5-42
2	M-101/AIC Microphone Assembly and AM-7067/A Amplifier Assembly	5-45
3	CX-13126A/A Cable Assembly	5-47
4	Miniature Regulator and Regulator-to-Seat Kit Hose Assembly	5-49

Table 5-5. MBU-15/P Assembly of Components

Order of Assembly	Component/Assembly to be Installed	Paragraph Reference
1	Offset Bayonets and Bayonet Receivers	5-42
2	M-101/AIC Microphone Assembly and AM-7067/A Amplifier Assembly	5-45
3	CX-13127/A Cable Assembly	5-47
4	MS27796 Connector	5-50
5	Positive Pressure and Miniature Regulators and Regulator-to-Seat Kit Hose Assembly	5-50
6	CX-13017/AR 40-Inch Cable Assembly	5-51

Table 5-6. MBU-16/P Assembly of Components

Order of Assembly	Component/Assembly to be Installed	Paragraph Reference
1	Offset Bayonets and Bayonet Receivers	5-42
2	M-101/AIC Microphone Assembly and AM-7067/A Amplifier Assembly	5-45
3	CX-13126A/A Cable Assembly	5-47
4	MS27796 Connector	5-50
5	Positive Pressure Chest-Mounted Regulator, and Miniature Regulators and Regulator-to-Seat Kit Hose Assembly	5-50

Table 5-7. MBU-17(V)1/P Assembly of Components

Order of Assembly	Component/Assembly to be Installed	Paragraph Reference
1	Offset Bayonets and Bayonet Receivers	5- 42
2	M-101/AIC Microphone Assembly and AM-7067/A Amplifier Assembly	5- 45
3	CX-13154/A Cable Assembly	5- 46
4	MC-3A Connector for Panel-Mounted Regulators and Walkaround Units	5- 48

Table 5-8. MBU-17(V)2/P Assembly of Components

Order of Assembly	Component/Assembly to be Installed	Paragraph Reference
1	Offset Bayonets and Bayonet Receivers	5- 42
2	M-101/AIC Microphone Assembly	5- 44
3	CX-4434/U-16 In. Cable Assembly	5- 45
4	MC-3A Connector for Panel-Mounted Regulators and Walkaround Units	5- 48

Table 5-9. MBU-17(V)5/P Assembly of Components

Order of Assembly	Component/Assembly to be Installed	Paragraph Reference
1	Offset Bayonets and Bayonet Receivers	5- 42
2	M-101/AIC Microphone Assembly and AM-7067/A Amplifier Assembly	5- 45
3	CX-13154/A Cable Assembly	5- 46
4	CRK-90 Connector for Panel-Mounted Regulator and Walkaround Units	5- 48

Table 5-9A. MBU-17(V)6/P Assembly of Components

Order of Assembly	Component/Assembly to be Installed	Paragraph Reference
1	Offset Bayonets and Bayonet Receivers	5- 42
2	M-101/AIC Microphone Assembly	5- 44
3	M22442/33-4707 Cable Assembly	5- 47
4	MS27796 Connector	5- 50
5	Positive Pressure and Miniature Regulators	5- 50

Table 5-9B. MBU-17(V)8/P Assembly of Components

Order of Assembly	Component/Assembly to be Installed	Paragraph Reference
1	Offset Bayonets and Bayonet Receivers	5- 42
2	P/N N100493-00 10Volt Microphone Assembly	5-45A
3	CX-4434/U-16 In. Cable Assembly	5- 46
4	MC-3A Connector for Panel-Mounted Regulators and Walkaround Units	5- 48

NAVAIR 13-1-6.7-3

a. Assure proper mask size has been issued (refer to paragraph 3-35).

b. Check fit of nape strap.

11. Using the receiver as a template, mark position of the remaining hole in the right and left hand receivers onto the helmet shell surface with a lead pencil. Have aircrew member remove helmet and mask. Detach earcups from helmet shell interior and remove installed receivers.

NOTE

A small amount of RTV may be applied to the first few threads of screws prior to installation.

12. Drill remaining holes following procedures detailed in step 7 above. Install spacers and receivers onto helmet shell at drilled locations using screws, lock washers, and backup plates. Tighten mounting screws securely ensuring receiver and spacer conform to the contour of the helmet surface.

13. Glue down pile fastener tape over backup plate.

14. Replace earcup assemblies.

15. Perform functional check in accordance with paragraph 3-62.

WARNING

When mask is issued temporarily for transporting passengers or crewmembers or if worn for a trial fitting, the straps need not be cut but will be folded under and tacked to prevent possible injury to face and eyes during bailout or ejection.

16. Cut excess adjustment strap to aircrew preference but, not less than 1 1/2-inches.

17. Sear cut end of each strap.

18. If desired by aircrewman, oval shaped opening in buckle may be tacked to the strap using 2 turns of size E nylon thread (V-T-295), doubled. Tie with surgeon's knot and secure with square knot.

5-43. FABRICATION AND INSTALLATION OF BAYONET RECEIVER SHIMS. These shims provide increased bayonet receiver height to alleviate edge roll induced bayonet/bayonet receiver interface problems. Fabricate shims as follows:

Materials Required

Quantity	Description	Reference Number
1	Spacer, Bayonet	80B4858 NIIN 01-141-5916
4	Screw, Pan Head, 6-32 x 0.500 Inch, Black	MS51957-30B NIIN 00-469-5382
As Required	Adhesive, Polychloroprene, Class 3	MIL-A-5540 NIIN 00-515-2246
As Required	Adhesive, RTV 102/732	MIL-A-46106 NIIN 00-877-9872

NOTE

Shims are fabricated from spacers provided in kit P/N 80B4858. Shims are intended for use by aircrew experiencing difficulty inserting the bayonet into the bayonet receiver due to helmet shell edge roll interference.

1. Remove spacers from the package and perform the following procedure on each spacer.

a. Position a spacer between the jaws of a bench vise with one raised projection facing the technician and clamp in place. Using a rotary hand tool (dremel) with a grinding drum or a rough cut hand file, grind or file raised projection flush with adjacent surface of spacer. Loosen vise and position remaining raised projection into position, clamp in place and repeat grinding/filing procedure.

b. Smooth uneven surfaces to a uniform height using a jeweler's file.

2. Detach right and left earcups from helmet shell earcup cavity pile fastener material and position clear of work area. Pull installed pile fastener material away from the interior surface of the earcup cavity and fold clear of work area.

3. Remove four screws, lock washers and backup plates securing installed spacers and receivers to helmet shell exterior, discard screws but retain remaining items for use during reinstallation.

NOTE

A small amount of RTV may be applied to each screw prior to adding lock washer and backup plate.

4. Using screws P/N MS51957-30B, lock washers and backup plate, reinstall shim, spacer and receiver onto helmet shell exterior. Ensure concave surface of shim is flush with helmet shell exterior prior to securing in place.

5. Cement pile fastener material into place on interior surface of earcup cavity.

5-43A. VISOR/MASK INTERFACE ADJUSTMENT.

In order to function correctly as a system, the three components must interface properly. Occasionally, trimming of the lower edge of the visor to optimize visor/mask interface is required. To select the correct helmet and visor combination for the aircraft being flown, refer to [chapter 4, Table 4-1](#). Helmet Configuration Matrix, and [Table 4-2](#). Helmet Application Matrix. To check for proper visor/mask interface, proceed as follows:

NOTE

When conducting the visor/mask interface check, the aircrewmember should wear aviator's sunglasses or their personal prescription glasses to ensure helmet and mask fit are adjusted to accommodate their usage.

1. Have aircrewmember don helmet and attach oxygen mask and don glasses. Lower visor to in-use position, check that the visor contacts the mask evenly across the nose-bridge, with no visible light leakage. Extended portions of the visor lens should not exert downward pressure on the mask cheek flaps.

2. Check for interference between the visor and the aircrewmember's glasses, adjust helmet and mask fit to aircrewmember's satisfaction.

3. If adjustments to the standard visor are necessary perform the following steps:

a. Lower visor to in-service position.

b. Note areas where visor contacts mask or where light leaks exist, mark areas to be trimmed with a china-marking pen.



Care must be taken during trimming and sanding procedures to avoid scratching or otherwise marring the visor lens.

c. Remove visor lens from helmet and position helmet clear of work area.



The rotary hand tool is an eye hazard and can also cause severe lacerations. Keep hands clear of moving parts and wear safety glasses while operating the rotary tool.

d. Using a rotary hand tool (dremel), carefully grind away marked areas of the visor lower edge trim marked previously. Remove no more than 1/8 inch of visor material at a time. Trim visor edge slowly, ensure ground edges are even. Visually verify visor/mask interface frequently to prevent over-trimming. Once proper fit has been achieved, remove sharp edges from trimmed areas using No. 240 grit sandpaper.

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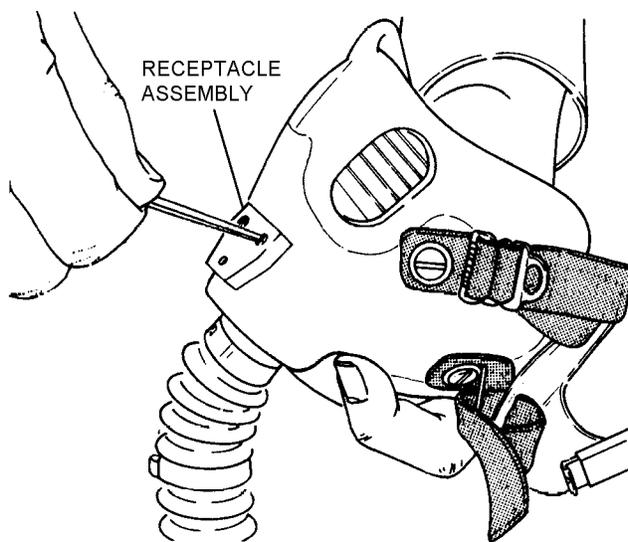
5-44. INSTALLATION OF M-101/AIC MICROPHONE ASSEMBLY. To install the M-101/AIC microphone assembly proceed as follows:

Materials Required		
Quantity	Description	Reference Number
1	Microphone	M-101/AIC (CAGE 81349) NIIN 00-843-9957
2	Screw, Machine 2-56 x 5/16-Inch Long	MS35275-204 (CAGE 96906) NIIN 00-948-4042
As Required	Adhesive Silicone, Type III, RTV 3145, Clear	MIL-A-46146 NIIN 00-117-8510
-or-		
As Required	Adhesive Silicone, Type III, RTV 3145, Gray	MIL-A-46146 NIIN 00-145-0020



When removing receptacle assembly be careful not to damage gasket.

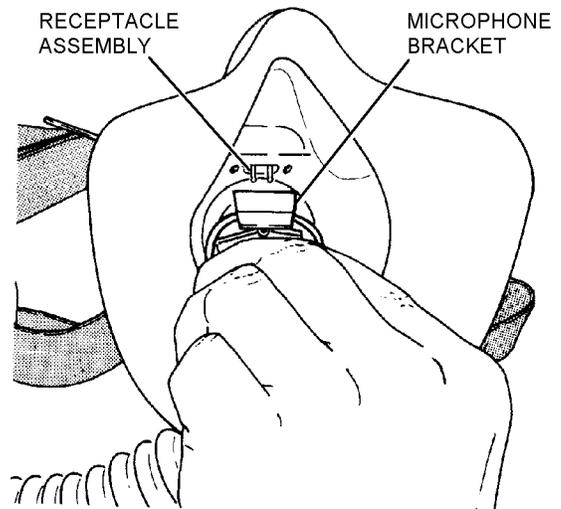
1. Remove two screws from receptacle assembly.



Step 1 - Para 5-44

5p44s1

2. Separate microphone bracket from receptacle assembly.



Step 2 - Para 5-44

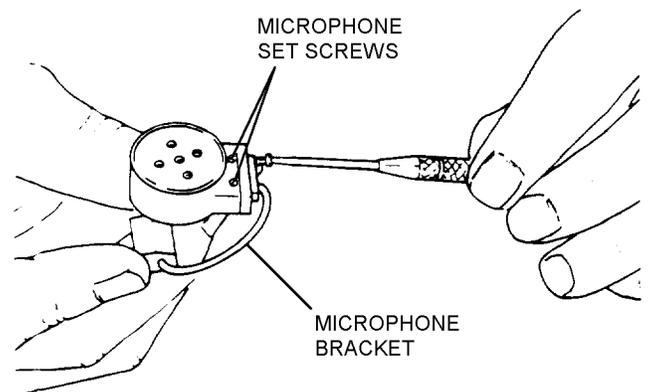
5p44s2

3. Install microphone onto microphone bracket (supplied with mask), secure with the two screws, then tighten two setscrews.

NOTE

Ensure that the two microphone set screws, which secure the microphone assembly to microphone bracket posts, are tight. To preclude possible electric shock to aircrewmembers, apply small amount of RTV sealant over head of set screws. Allow minimum 12 hours for sealant to cure.

Aircrewmembers may experience a slight electrical shock when the face or lips touch the microphone set screws. In these cases, install the microphone backwards such that the set screws face away from the mouth. The microphone should perform satisfactorily when speaking into either side.



Step 3 - Para 5-44

5p44s3

CAUTION

Ensure that screws are tight enough to form a good seal between connector and hardshell, but do not strip screws or crack receptacle. Over tightening may also cause damage to internal communication wires.

4. Place receptacle assembly on hardshell of mask and install microphone bracket into mask and onto receptacle assembly. Ensure proper seating of receptacle assembly and good gasket seal. Attach with two screws removed during step 1.

NOTE

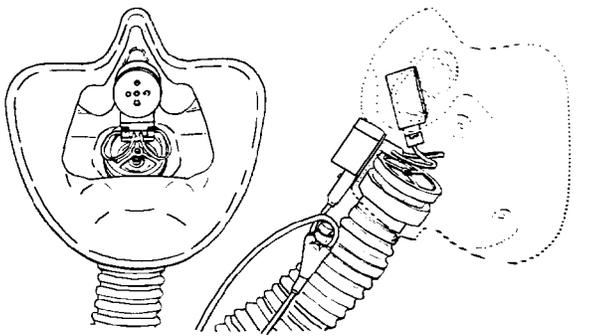
Some aircrewmembers may experience high noise levels in the oxygen mask. Noise level can be reduced by proper positioning of the M-101/AIC microphone.

5. Position M-101/AIC microphone so that it is not in the direct line of oxygen flow. Push microphone back against oxygen mask hardshell.

Materials Required

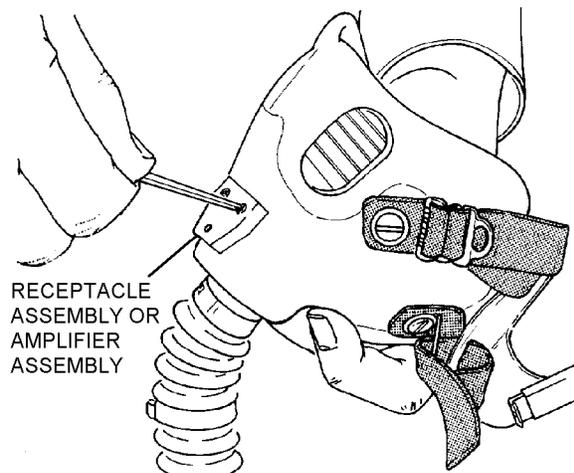
Quantity	Description	Reference Number
1	Microphone Assembly	M-101/AIC (CAGE 81349) NIIN 00-843-9957
2	Screw, Machine 2-56 x 5/16-Inch Long	MS35275-204 (CAGE 96906) NIIN 00-948-4042
1	Amplifier Assembly, AM-7067A/A	P/N M23595/3-1 (CAGE 03487) NIIN 01-310-6240
		-or-
1	Gasket, Amplifier	NIIN 01-113-8364
2	Screw, Machine 2-56 x 3/4-Inch Long	MS35275-209 NIIN 00-941-3545
As Required	Adhesive Silicone, Type III, RTV 3145, Clear	MIL-A-46146 NIIN 00-117-8510
		-or-
As Required	Adhesive Silicone, Type III, RTV 3145, Gray	MIL-A-46146 NIIN 00-145-0020

1. Remove two screws from receptacle assembly.



Step 5 - Para 5-44

5p44s5



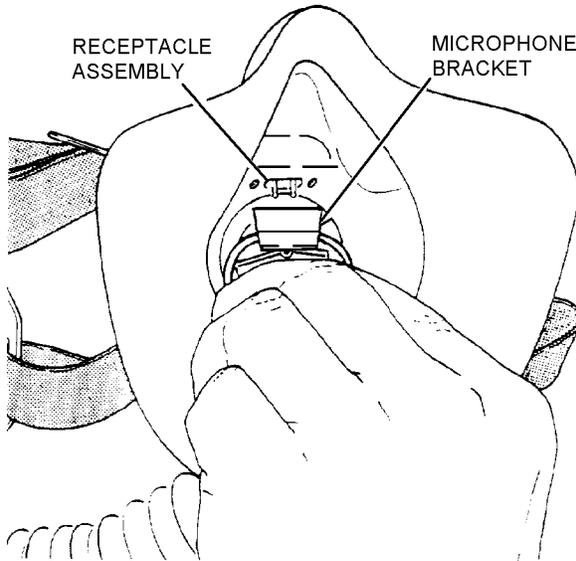
RECEPTACLE ASSEMBLY OR AMPLIFIER ASSEMBLY

Step 1 - Para 5-45

5p45s1

5-45. INSTALLATION OF M-101/AIC MICROPHONE ASSEMBLY AND AM-7067A/A AMPLIFIER ASSEMBLY. To install the M-101/AIC microphone assembly and AM-7067A/A amplifier assembly, proceed as follows:

2. Separate microphone bracket from receptacle assembly.



Step 2 - Para 5-45

5p45s2

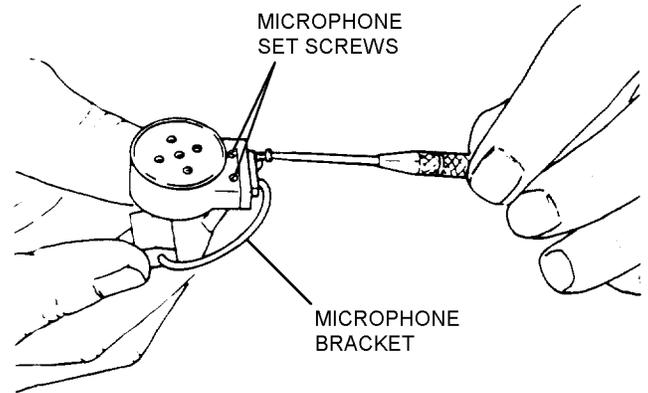
3. Install microphone onto microphone bracket (supplied with mask), secure with two screws (No. 2-56 x 5/16 lg.), then tighten two microphone setscrews.

NOTE

Ensure that the two microphone set screws, which secure the microphone assembly to microphone bracket posts, are tight. To preclude possible electric shock to aircrewmember, apply small amount of RTV sealant over head of set screws. Allow minimum of 12 hours for sealant to cure.

NOTE

Aircrewmembers may experience a slight electrical shock when the face or lips touch the microphone set screws. In these cases, install the microphone backwards such that the set screws face away from the mouth. The microphone should perform satisfactorily when speaking into either side.



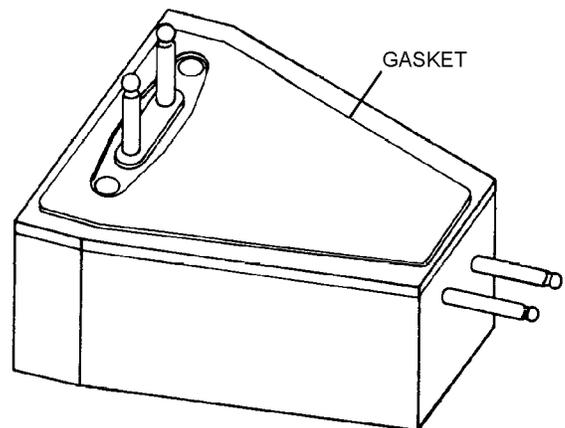
Step 3 - Para 5-45

5p45s3

NOTE

Amplifier gaskets can be ordered separately. Care must be exercised when removing and installing.

4. Place amplifier gasket onto amplifier.



Step 4 - Para 5-45

5p45s4

CAUTION

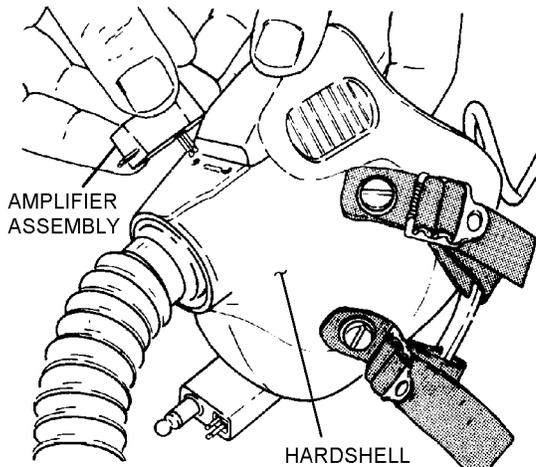
Ensure that screws are tight enough to form a good seal between amplifier and hardshell, but do not strip screws or crack amplifier.

NOTE

The screws removed during [step 1](#) are not long enough for attachment of amplifier.

NAVAIR 13-1-6.7-3

5. Install microphone and bracket into mask and onto amplifier. Ensure proper seating of amplifier and good gasket seal. Attach with two screws (no. 2-56 x 3/4 lg.)



Step 5 - Para 5-45

5p45s5

5-45A. INSTALLATION OF P/N N100493-00 MICROPHONE/AMPLIFIER, 10 VOLT ASSEMBLY, ON THE MBU-17(V)8/P (MV-22 OXYGEN MASK).

To install the microphone/amplifier, 10 volt assembly, P/N N100493-00 on the MBU-17(V)8/P oxygen mask for use in the MV-22 aircraft, proceed as follows:

Materials Required

Quantity	Description	Reference Number
1	Microphone/Amplifier, 10 Volt, Oxygen Mask (NOTE)	P/N N100493-00, NIIN TBD
2	Screw Machine, 2-56 x 3/4 inch	P/N MS35275-209, NIIN 00-941-3545
1	Cable, Branched, Electrical	CX-4434/U 16-inch NIIN TBD
1	Connector	MS27796, NIIN 01-703-4187

Notes: 1. Microphone/Amplifier, 10 Volt Assembly, P/N N100493-00 is commercially available from Gentex Corporation, Derry, NH Telephone (603) 434-3002.

1. Loosen and remove two screws from the receptacle assembly. Discard screws.

2. Separate the M-101/AIC microphone bracket from receptacle assembly. Discard receptacle and microphone bracket.

3. Position amplifier gasket on amplifier.



Ensure that screws are tight enough to form a good seal between the amplifier and the mask hardshell, but do not strip screws or crack amplifier.

NOTE

The screws removed during step 1 are not long enough for attachment of the amplifier.

4. Place amplifier with gasket into position on the mask hardshell with the electrical contact pins protruding into the interior of the mask facial cavity.

5. While holding amplifier in place on hardshell exterior, push microphone bracket firmly onto amplifier contact pins.

6. Insert 2-56 x 3/4-inch long screws through amplifier body into microphone bracket and tighten. Ensure proper seating of amplifier and good gasket seal.

5-46. INSTALLATION OF CX-13154/A AND CX-4434/U CABLE ASSEMBLIES.

Materials Required

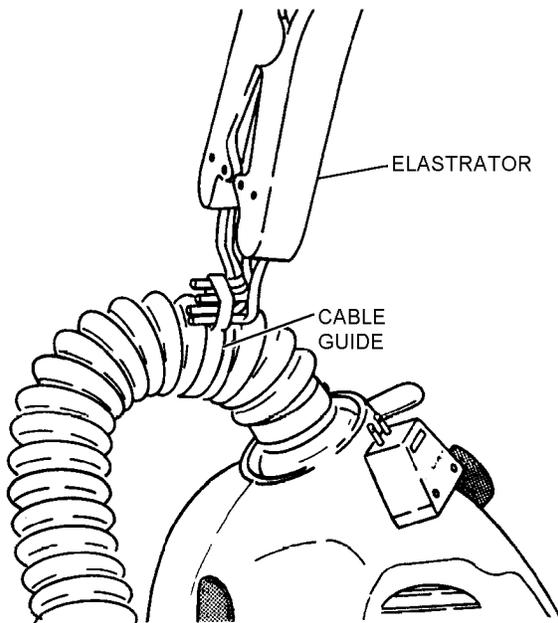
Quantity	Description	Reference Number
1	Cable Assembly, (CX-13154/A)	P/N 765AS380-1 (CAGE 30003)
1	Cable Assembly, 16-Inch (CX-4434/U)	P/N 57C12661-1-2-1-4 (CAGE 80058) NIIN 00-890-8614
1	Elastrator	P/N 00-6297 (CAGE 53655) NIIN 01-124-0649

1. To install the CX-13154/A and 16-inch CX-4434/U cable assemblies, proceed as follows:

CAUTION

Care should be taken not to overexpand cable guides with elastrator. Open only enough to pass cable assembly through opening.

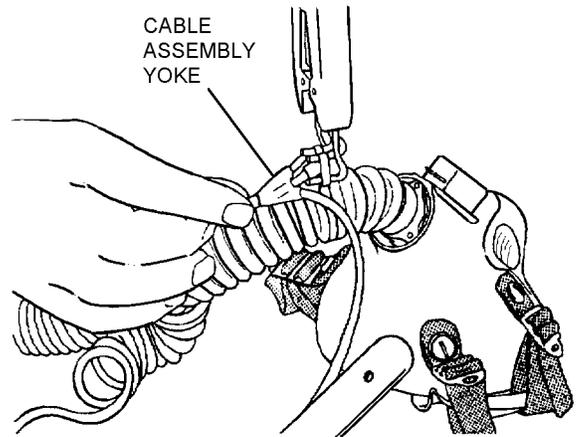
a. Pass elastrator through opening in upper cable guide and stretch open.



Step 1a - Para 5-46

5p46s1a

b. Install nub or yoke upper portion of cable assembly into opening in cable guide and remove elastrator.



Step 1b - Para 5-46

5p46s1b

c. Let cable assembly hang loose off delivery tube.

d. Plug cable assembly into corresponding receptacle assembly, amplifier assembly, or cable assembly.

5-47. INSTALLATION OF CX-13126A/A, CX-13127/A, OR M22442/33-4707 CABLE ASSEMBLIES.

NOTE

The CX-13126/A cable was modified by Avionics Change No. 2748. The new cable is designated CX-13126A/A.

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Materials Required

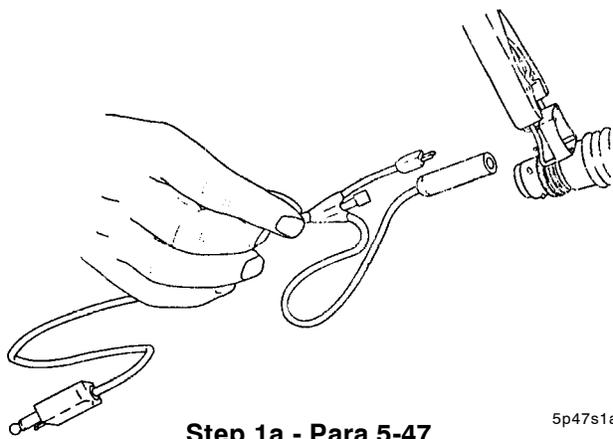
Quantity	Description	Reference Number
1	Cable Assembly, (CX-13126A/A)	P/N M22442/26-3 NIIN 01-209-3117
1	Cable Assembly, (CX-13127/A)	P/N M22442/42-1 NIIN 01-309-4909
1	Elastrator	P/N 00-6297 (CAGE 92114) NIIN 01-124-0649
As Required	Tape, Electrical, Black, 3/4-Inch	MIL-I-24391 NIIN 00-419-4291

1. To install the CX-13126A/A and CX-13127/A cable assemblies, proceed as follows:

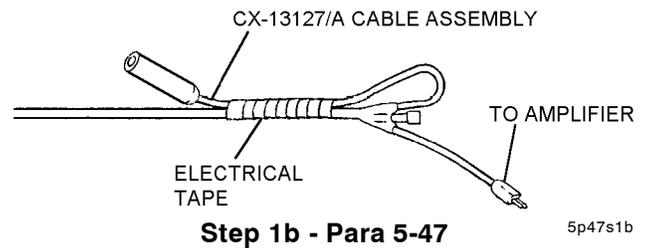
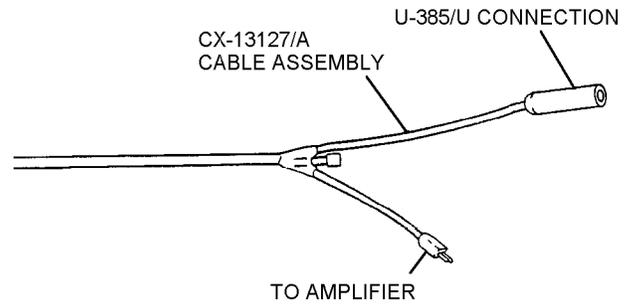


Care should be taken not to overexpand cable guides with elastrator. Open only enough to pass cable assembly through opening.

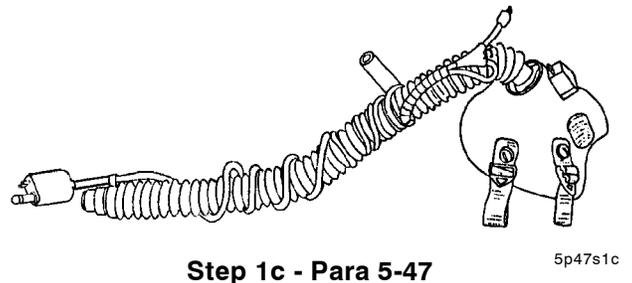
a. Pass elastrator through opening in lower cable guide and stretch open. Insert upper portion of cable assembly through opening in cable guide and feed cable through guide until approximately 6 inches of cable remains below lower cable guide. Remove elastrator.



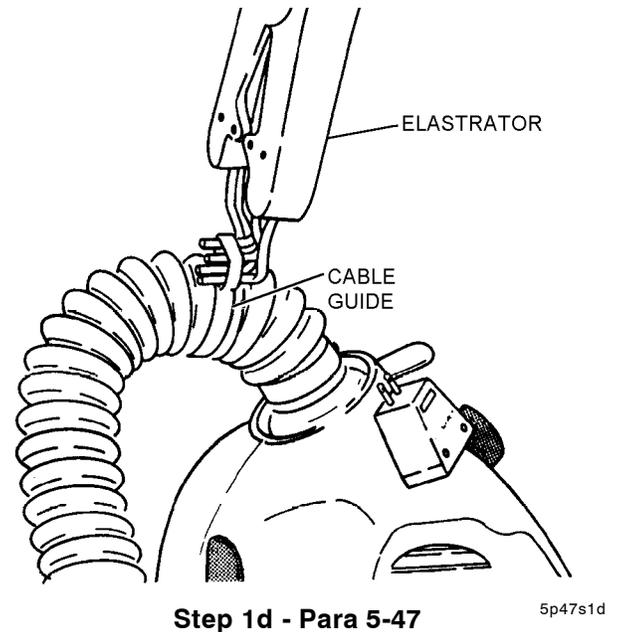
b. (CX-13127/A only) Prior to installing cable to upper cable guide, secure U-385/U connector by bending back communication cable and fastening with electrical tape to the main cable.



c. Wrap cable assembly around delivery tube.

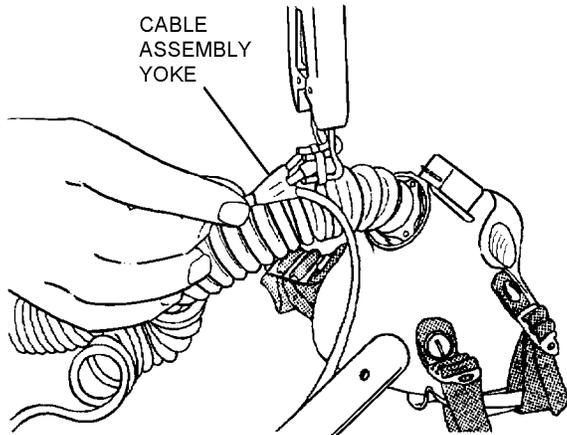


d. Pass elastrator through opening in upper cable guide and stretch open.



NAVAIR 13-1-6.7-3

e. Place nub of yoke from upper portion of cable assembly through opening of upper cable guide and remove elastator.



Step 1e - Para 5-47 5p47s1e

f. Plug cable assembly into corresponding receptacle assembly, amplifier assembly, or cable assembly.

5-48. INSTALLATION OF THE MC-3A OR CRK-90 CONNECTOR FOR PANEL-MOUNTED REGULATORS, WALKAROUND UNITS, AND BAILOUT BOTTLES. To install the connector, proceed as follows:

NOTE

If the oxygen mask bag is to be used, it must be fabricated and installed prior to installing the MC-3A connector. Refer to [paragraph 5-85](#).

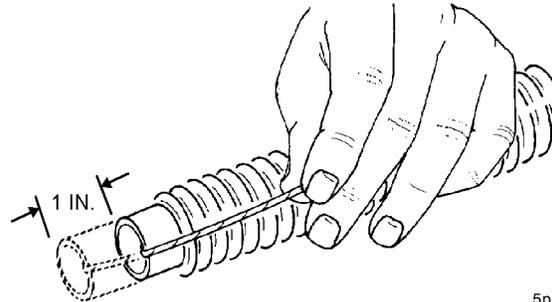
Materials Required

Quantity	Description	Reference Number
1	Connector (Type MC-3A)	NIIN 00-694-8121 MS22016-1
	-or-	
	Connector (Type CRK-90)	P/N 123AB50534-5 (CAGE 26912)
1	Hose Clamp Pliers	NIIN 01-073-4187 P/N 450-813 (CAGE 53655)

NOTE

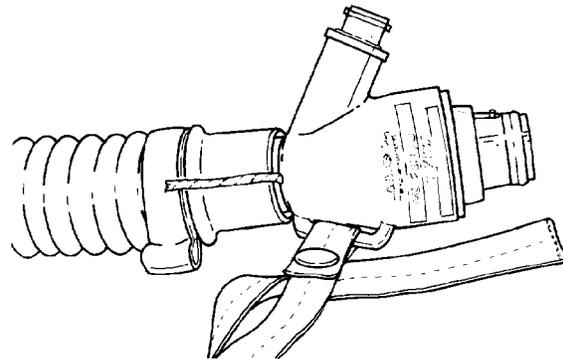
If installing electrical tiedown strap instead of hose clamp (P/N 450-134A or P/N MS22064-5), pliers are not required.

1. Route cord outside tube assembly. Adjust cord so that there is no more than 1-inch extension in delivery tube when pulled from each end.



Step 1 - Para 5-48 5p48s1

2. Install connector into tube assembly.



Step 2 - Para 5-48 5p48s2

WARNING

Do not reuse two locking position hose clamps.

CAUTION

Tighten mask hose clamp only enough to retain and seal the delivery tube on the connector. An excessively tightened clamp may damage the tube or connector.

NOTE

Electrical tiedown straps may be used in place of mask hose clamps (P/N 450-134A or P/N MS22064-5). Refer to [paragraph 5-83](#) for tiedown strap installation.

3. Using hose clamp pliers, install hose clamp over nylon cord and lower end of tube assembly and tighten.

4. Cut off excess nylon cord so that there is no more than 1/2 inch of cord extending past clamp.

5. Lower cable guide over lower hose clamp.

5-49. INSTALLATION OF CRU-79/P SERIES MINIATURE REGULATOR AND REGULATOR-TO-SEAT KIT HOSE ASSEMBLY. To install the CRU-79/P minia-

ture regulator and regulator-to-seat kit hose assembly, proceed as follows:

NOTE

If the oxygen mask bag is to be used, it must be fabricated and installed prior to installing the miniature regulator. Refer to [paragraph 5-84](#). The installation of the CRU-79/P miniature regulator is shown in these procedures. The installation of other miniature regulators is similar.

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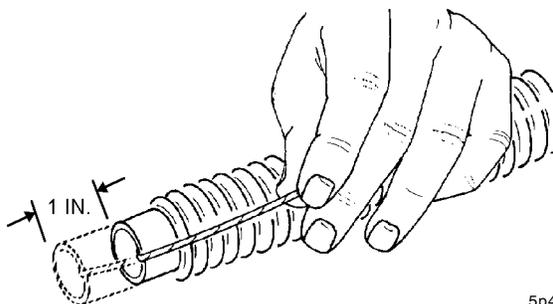
Materials Required (Cont)

Quantity	Description	Reference Number
1	Miniature Oxygen Breathing Regulator (CRU-79/P)	P/N 900-002-025-05 -or- P/N 900-002-025-03 -or- 29267-A1 -or- 3260024-0101
1	Hose Clamp Pliers	P/N 450-813 (CAGE 53655) NIIN 01-073-4187
1	Regulator-to-Seat Kit Hose Assembly	P/N 12080-2 (CAGE 31441) NIIN 00-915-4603 -or- P/N 33C1178-1 (CAGE 80206) NIIN 00-915-4603
1	Locknut	P/N B122-2P2 NIIN 00-715-2761
1	Nipple Adapter	P/N 1-8FGD NIIN 00-433-2506
1	Elbow, 90°	AN95-1D

NOTE

If installing electrical tiedown strap instead of hose clamp (P/N 450-134A or P/N MS22064-5) pliers are not required.

1. Route cord outside tube assembly. Adjust so that there is no more than 1-inch extension in delivery tube when pulled from each end.



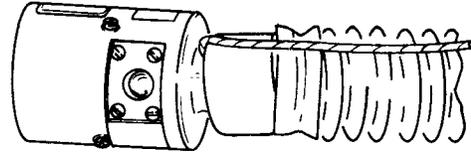
Step 1 - Para 5-49

5p49s1

NOTE

The CRU-79/P regulator is shown here for illustration purposes only.

2. Install CRU-79/P regulator into tube assembly.



Step 2 - Para 5-49

5p49s2

WARNING

Do not reuse two locking position hose clamps.

CAUTION

Tighten mask hose clamp only enough to retain and seal the delivery tube on the CRU-79/P regulator. An excessively tightened clamp may damage the tube or regulator assembly. Be careful not to bend hook on clamp during installation.

NOTE

Electrical tiedown straps may be used in place of mask hose clamps (P/N 450-134A or P/N MS22064-5), refer to [paragraph 5-83](#) for tiedown strap installation.

3. Using hose clamp pliers, install hose clamp over nylon cord and lower end of tube assembly and tighten. Ensure hook is fully inserted into notch of clamp, and that hook is not bent.

4. Cut off excess nylon cord so that there is no more than 1/2 inch of cord extending past clamp.

5. Lower cable guide over lower hose clamp.

NOTE

(CRU-79/P P/N 900-002-025-05 only) The locknut is not required on the 90° elbow. The 90° elbow male threads shall be wrapped with two turns of anti-seize tape (MIL-T-27730) prior to installation [step 8](#).

(CRU-79/P P/N 900-002-025-05 only) The type regulator already has a 90° elbow installed, [steps 9](#) and [10](#) apply for installation only.

During installation of the locknut onto the fittings installed [steps 6](#), [7](#), and [8](#). The locknut should be threaded onto the seat-kit hose, 90° elbow and adapter hand tight. Ensure a minimum of two to three full threads are showing on fittings prior to installation of components, the locknuts may have to be tightened to achieve the two to three threads.

NAVAIR 13-1-6.7-3

6. Thread one locknut onto regulator-to-seat kit hose connection. Teflon face on locknut shall face toward female port of adapter assembly. See [figure 5-10](#).

7. (CRU-79/P series regulators without installed 90° elbow only) Thread one locknut onto male-threaded portion of 90° elbow. Teflon face of locknut shall face toward the regulator during installation of the 90° elbow. See [figure 5-10](#).

8. (CRU-79/P series regulators without installed 90° elbow only) Thread 90° elbow into inlet port of regulator hand tight. Using a wrench tighten 90° elbow a minimum of one full turn. An additional one turn can be used as required until 90° elbow is tight and orientation of female port of the fitting is pointing the opposite direction of the regulator outlet. Tighten locknut until flush with regulator body, once flush tighten locknut an additional one quarter of a turn until tight. See [figure 5-10](#).

9. (All CRU-79/P series regulators) Thread one locknut onto male-threaded portion of nipple adapter coupling (see [figure 5-10](#)). Teflon face on locknut shall face toward 90° elbow during installation. Thread nipple adapter coupling into 90° elbow hand tight. Using a wrench tighten adapter coupling one turn. An additional one turn can be used if required until adapter is tight. Tighten locknut until flush with 90° elbow, once locknut is flush tighten locknut an additional one quarter of a turn or until tight. See [figure 5-10](#).

10. Thread regulator-to-seat-kit hose into nipple adapter a minimum of two full turns until tight and proper orientation is achieved (see [figure 5-10](#)). Tighten locknut until locknut is flush with the nipple adapter, once locknut is flush with nipple adapter tighten locknut an additional one quarter of a turn or until tight.

11. Connect communication leads as required.

5-50. INSTALLATION OF THE TORSO/CHEST MOUNTED OXYGEN REGULATOR AND REGULATOR-TO-SEAT KIT HOSE ASSEMBLY. To install the oxygen regulator and regulator-to-seat kit assembly, proceed as follows:

NOTE

If the oxygen mask bag is to be used, it must be fabricated and installed prior to installing the regulator. Refer to [paragraph 5-84](#).

The S-3 Series aircraft has been authorized to use the CRU-79/P miniature regulator. Refer to [paragraph 5-49](#) for installation instructions.

Materials Required

Quantity	Description	Reference Number
1	Diluter Demand Oxygen Chest-Mounted Regulator (CRU-82/P)	P/N 326005-0401 NIIN TBA
1	Demand Oxygen Torso-Mounted Regulator (Type CRU-103/P)	P/N F241-2300-3 (CAGE 04577)
	-or-	
1	Positive Pressure Torso-Mounted Regulator (Type CRU-88/P)	P/N 2900W000-001 (CAGE U1605)
1	Regulator-to-Seat Kit Hose Assembly	P/N 57012-3-2 NIIN 01-407-0686 -or- P/N MBEV148020 (CAGE W1604) NIIN 01-169-6129 -or- P/N A11206-2 (CAGE 28845) NIIN 01-169-6129
1	Elbow, 45°	AN915-1D
1	Elbow, 90°	AN95-1D
1 (If Required)	Connector	MS27796 NIIN 01-730-2247
1 (If Required)	Hose Clamp Pliers (See note)	P/N 450-813 (CAGE 53655) NIIN 01-073-4187
1	Locknut	P/N B122-2P2 NIIN 00-715-2761
1	Nipple Adapter	P/N 1-8FGD NIIN 00-433-2506
1	Adapter, Straight Flared	P/N 1643340-1 or P/N 1643340-2
1	Adapter, 90° Elbow	P/N 1654461-1
As Required	Tape, Anti-Seize	MIL-T-27730

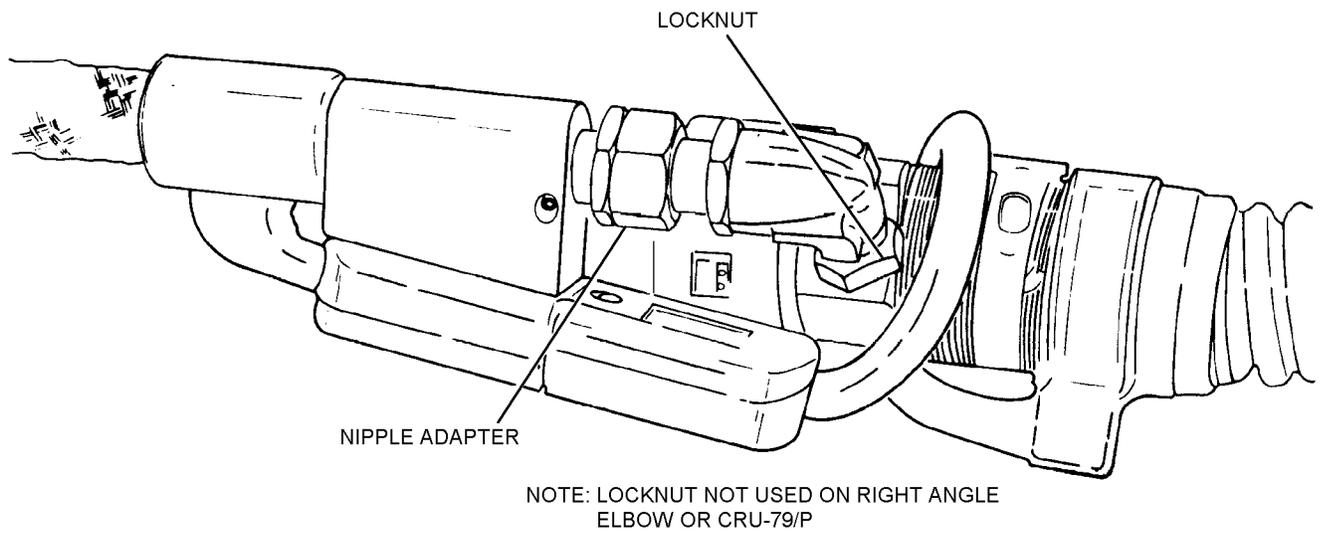


Figure 5-10. Assembly of Hoses to the CRU-79/P Series Regulator

5-10

Figure 5-11. Deleted

NOTE

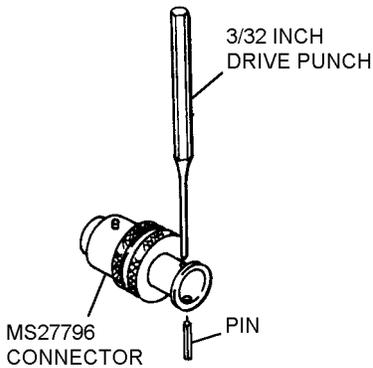
Aircrewmembers may choose one of two adapters available for use on the CRU-82/P regulator, P/N 326005-0401. One is the straight flared adapter, P/N 1643340-1 and -2. The other is a modified 90 degree elbow adapter, P/N 1654461-1. The 90 degree adapter is authorized only if its use will not cause excessive bends while routing the seat kit hose.

If installing electrical tie down strap instead of hose clamp (P/N 450-134A or P/N MS22064-5), pliers are not required.



Care should be taken when removing pin from connector not to damage shell of connector.

1. Using 3/32-inch drive punch, remove pin from connector.



Step 1 - Para 5-50

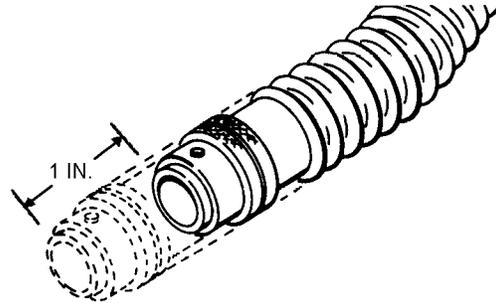
5p50s1



Care should be taken to avoid damage to connector shell when inserting pin into connector.

2. Install cord and snap assembly to MS27796 connector; replace pin and slide connector into delivery tube.

3. Ensure that there is no more than 1-inch extension in delivery tube when pulled from each end. If necessary, remove connector from delivery tube and adjust length of cord.



Step 3 - Para 5-50

5p50s3



Do not reuse two locking position hose clamps.



Tighten mask hose clamp only enough to retain and seal the delivery tube on the CRU-79/P regulator. An excessively tightened clamp may damage the tube or regulator assembly.

Carefully avoid puncturing or otherwise damaging delivery tube with hose clamp tool or screwdriver.

NOTE

For ease of removing (or installing) hose clamps, place a small screwdriver under and slightly behind the hook.

Electrical tiedown straps may be used in place of mask hose clamps (P/N 450-134A or P/N MS22064-5), refer to [paragraph 5-83](#) for tiedown strap installation.

4. Using hose clamp pliers, install hose clamp over lower end of tube assembly and installed MS27796 connector and tighten.

5. Lower cable guide over lower hose clamp.
6. Inspect regulator inlet and outlet for foreign objects, dirt, corrosion, bends, dents, cracks, and other damage. Ensure that regulator inlet filter screen is properly installed.

CAUTION

When attaching regulator to oxygen mask assembly, cut and discard cord holding dust cap to regulator housing. Retain dust cap in organizational work center and use only for storage or when regulator has been removed from the oxygen mask assembly for maintenance. Do not allow dust cap to remain on regulator when regulator and mask assembly are joined as a unit.

7. With a push-down, twisting motion, install regulator to the MS27796 connector on end of oxygen mask delivery hose.

NOTE

LOX aircraft only with CRU-79/P and CRU-103/P regulators, refer to paragraph 5-49 for regulator oxygen hose connection.

8. (CRU-82/P Regulator P/N 326005-0401 only.) Install inlet adapter as follows:

CAUTION

When installing inlet adapters P/N 1643340-1 or P/N 1654461-1 in CRU-82/P (P/N 326005-0401) regulator housing, use extreme care not to strip thread of regulator housing inlet.

- a. (Straight flared adapter P/N 1643340-1 only.) Apply two turns of anti-seize tape (MIL-T-27730) on inlet pipe threads of adapter. Install inlet adapter in regulator housing finger tight then secure using wrench. Tighten a maximum of one to two turns. See Figure 5-12.

WARNING

Excessive bends in seat kit hose causes increased wear and premature hose and communication lead failure.

NOTE

Aircrewmember must be present during installation of modified 90 degree elbow adapter, P/N 1654461-1, to ensure proper orientation of adapter.

- b. (90 degree elbow adapter, P/N 1654461-1 only.) Apply two turns of anti-seize tape (MIL-T-27730) on adapter pipe threads. Install adapter in regulator housing and tighten finger tight.

- c. Using wrench, secure adapter by tightening a maximum of one turn. When adapter is positioned in desired orientation, tighten nut/locknut flush to regulator housing. Once flush, tighten locknut an additional one quarter turn until tight. See Figure 5-13.

9. For OBOGS regulators only, thread regulator-to-seat kit hose connection onto regulator nipple adapter coupling hand tight. Using two wrenches, hold inlet fitting at regulator inlet port and tighten oxygen seat kit hose B nut one to two turns maximum until tight.

10. Wrap communication lead around hose to eliminate slack, and couple together.

5-51. INSTALLATION OF THE 40-INCH CX-13017/AR CABLE ASSEMBLY.

The 40-inch CX-13017/AR cable assembly completes communication between the HGU-68(V)3/P helmet cable (CX-13128A) and the 32-inch CX-13017/AR cable assembly attached to the RSSK-8 oxygen hose. To install the 40-inch CX-13017/AR cable assembly proceed as follows:

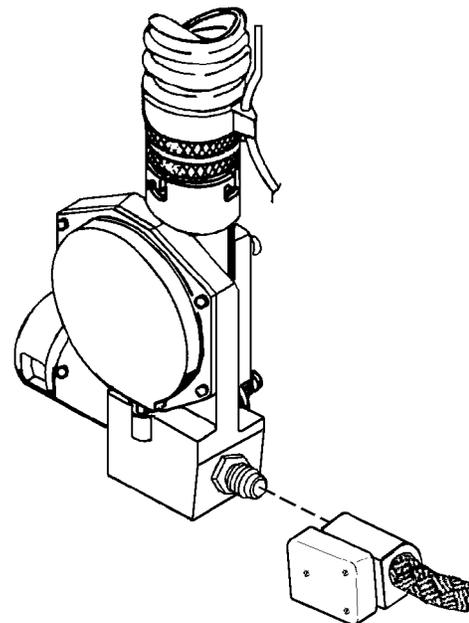
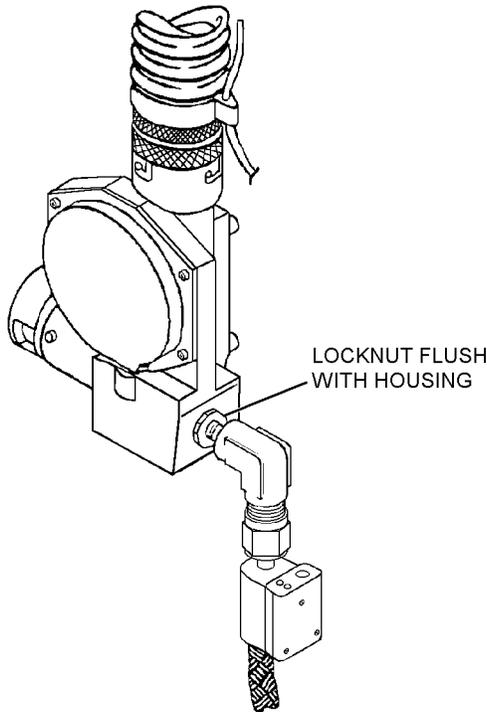


Figure 5-12. Assembly of Hoses, Regulator, and Straight Flared Adapter (P/N 1643340-1)

5-12



5-13

Figure 5-13. Assembly of Regulator (P/N 326005-0401), Hose, and Modified 90 Degree Elbow Adapter (P/N 1654461-1)

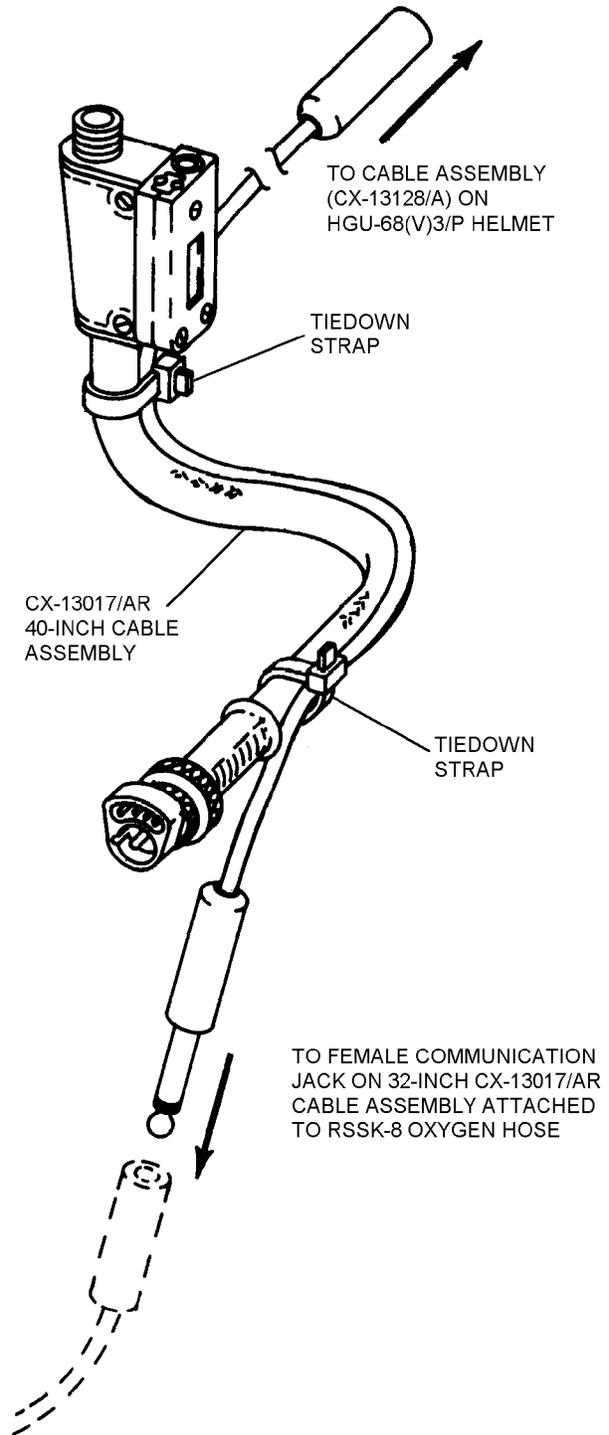
Materials Required

Quantity	Description	Reference Number
1	CX-13017/AR 40-Inch Cable Assembly	MIL-C-81866AS P/N 1099AS102 (CAGE 30003) -or- CX-13017/AR
2	Strap, Tiedown, Electrical	MS3367-1-9

1. Position the 40-inch cable assembly on the regulator-to-seat kit hose assembly (P/N 33C1178), so the male communication jack extends just below the fitting on the lower end of the regulator-to-seat kit hose.

2. Secure the 40-inch cable assembly to the regulator-to-seat kit hose with two tiedown straps.

3. Ensure straps are tight; cut off excess length of tiedown straps after tightening.



Steps 1 thru 3 - Para 5-51

5p51s1

5-52. FABRICATION AND INSTALLATION OF OXYGEN MASK SECURING FASTENER. To provide a means of fastening the oxygen mask to the PCU-33/P series and PCU-56/P series torso harnesses to secure and protect the mask from accidental exposure to contamination, proceed as follows:

Materials Required

Quantity	Description	Reference Number
1	Button, Snap Fastener	MS27980-1B NIIN 00-359-6844
1	Socket, Snap Fastener	MS27980-6B NIIN 00-285-6250
1	Chuck, Socket	P/N 1410 NIIN 00-144-2084
1	Die, Button	P/N 1401 NIIN 00-090-4412
1	Snap Setter	P/N A741 NIIN 00-880-0619
1	Punch, Cutting Revolving	MIL-P-2001 NIIN 00-596-9604

1. With the oxygen mask properly fit and adjusted, there is a minimum of 1 and 1/2 inches of retention harness webbing remaining.

2. On the lower left retention harness strap, measure, toward the adjustment buckle, 3/4 of an inch from the sear cut end of the retention harness webbing and place a mark at the center of the webbing.

3. At the marked location, using a revolving punch, make a hole slightly smaller than the diameter of the shaft of the snap fastener button.

4. Assemble snap fastener button and socket onto retention harness with the button outboard, install onto harness webbing with a snap setter.

Section 5-4. Modifications

5-53. GENERAL.

5-54. The oxygen mask assemblies shall be updated by comparing the assemblies with the directives listed in [table 5-10](#).

Table 5-10. Oxygen Mask Assembly Directives

Description of Modification	Application	Modification Codes
Modification of CX-13126/A Communication Cable Assembly for quick disconnect from helmet assemblies.	MBU-14(V)1/P, and MBU-16/P oxygen mask assemblies	54-2748
Reconfiguration of oxygen masks from MBU-14(V)2/P to MBU-14(V)1/P for use by EA-6B aircrew.	MBU-14(V)2/P oxygen mask assemblies	66-474
Fabrication and Installation of an Oxygen Mask Securing Fastener to provide a means of fastening the oxygen mask to the torso harness.	All MBU-12/P Series oxygen masks used with the PCU Series torso harness.	66-560

Section 5-5. Maintenance

5-55. GENERAL.

5-56. Proper care and use of oxygen masks are essential to ensure optimum performance during routine flight operations and emergencies. Aircrew maintenance of the MBU-12/P series oxygen mask shall be limited to Preflight/Postflight inspections and routine cleaning. All other maintenance actions such as scheduled inspections, in-depth cleaning, and repairs shall be performed by qualified Organizational Maintenance personnel. All maintenance actions and inspections shall be documented in accordance with OPNAVINST 4790.2 Series. Repair, fabrication, and installation instructions to maintain serviceability are listed in [table 3-11](#).

5-57. INSPECTION.

5-57A. Inspection of the MBU-12/P series oxygen mask consist of Place-in-Service, Preflight/Postflight, and Special Inspections.

5-57B. PLACE-IN-SERVICE INSPECTION. Prior to placing in service, the oxygen mask shall be inspected as follows:

1. Visually inspect in accordance with [paragraph 3-60](#).
2. Disassemble and clean in accordance with [paragraph 3-69](#).

5-58. PREFLIGHT/POSTFLIGHT INSPECTION.

The Preflight/Postflight Inspection is a visual inspection performed by the aircrewmember to whom the oxygen mask, regulator and regulator-to-seat kit hose are issued. This inspection shall be performed before and after each flight in accordance with the below listed steps and [paragraphs 3-60](#) and [3-61](#).

NOTE

Defects or questionable areas noted during the inspection shall be referred to the proper maintenance activity for required corrective action.

1. Check communication system and microphone for proper installation.
2. Check mask for damage and proper operation with tester and/or aircraft oxygen and communications system.
3. Check regulator-to-seat kit hose assembly for damage. Check hose for proper operation with tester and/or aircraft oxygen and communications system.

5-59. SPECIAL INSPECTION. The Special Inspection for the oxygen mask shall be conducted every 30 days by organizational level and shall consist of a visual inspection, a functional check, and a thorough cleaning of the oxygen mask assembly.

5-60. VISUAL INSPECTION OF OXYGEN MASK ASSEMBLY. To visually inspect the oxygen mask assembly, proceed as follows:

1. Inspect delivery tube for damage, cuts, breaks, dust, and dirt. Replace cut or split delivery tubes, clean dirty delivery tubes in accordance with [paragraph 3-66](#).

2. Inspect oxygen valve for fit and seal. Replace oxygen valve if fit or seal is unsatisfactory.

3. Inspect microphone connector for damage, cracks, looseness, and proper seating. Replace damaged microphone connector.

4. Inspect strap and buckle assemblies for damage, raveled fabric, loose stitching, unsecure attachment, and bent or damaged grommets. Replace damaged items.

5. Inspect facepiece assembly for damage, cracks, and deformation. Replace defective facepiece assembly.

6. Inspect seals for separation or slippage between hardshell and rubber facepiece. Reseat seals and tighten oxygen valve nut to prevent slippage.

7. Inspect self-locking screws (readily identified as phillip's head) or tee nuts for damage. Replace damaged screws.

8. Inspect communication cord for cuts and split or abraided insulation. Small areas of abrasion may be covered with electrical tape, cuts or splits may require cable replacement.

9. Inspect offset bayonets for proper operation.

10. Check security of hose clamps. Tighten any loose clamps.

11. Inspect the MC-3A connector, if installed, for security of attachment, function, condition, and corrosion. Replace as necessary.

5-61. VISUAL INSPECTION OF REGULATOR-TO-SEAT KIT HOSE ASSEMBLY. To visually inspect the regulator-to-seat kit hose assembly, proceed as follows:

NOTE

Perform visual inspection on attached oxygen regulator in accordance with procedures contained in NAVAIR 13-1-6.4-2.

1. Inspect hose for obvious damage, wear, splits, cuts, fraying, and kinks.

2. Inspect quick disconnects for damage, corrosion, bent, loose, or missing pins.

3. Inspect for cleanliness and presence of foreign material.

4. Inspect housing for damage, cuts, nicks, discoloration, and wear.

5. Inspect metal fittings for damaged threads, rounded hexagon flats, security of attachment to regulator and corrosion.

6. If present, inspect CX-13017/AR 40-inch cable assembly for security of attachment and other obvious damage. Replace if necessary in accordance with [paragraph 5-51](#).

5-62. FUNCTIONAL CHECK OF OXYGEN MASK ASSEMBLY. For best results, the functional check should be performed using Oxygen Hose and Communications Test Set TTU-489/E, P/N 1827AS100-1, in accordance with NAVAIR 17-15BC-22. At present, the TTU-489/E test set is the only test set available to perform this functional test. If a unit is not available, standard shop procedures should be followed to check the oxygen mask assembly.

NOTE

If no discrepancies are noted, proceed to [paragraph 5-66](#), Cleaning. If problems are encountered, refer to [table 5-12](#) for troubleshooting procedures. When discrepancy has been corrected, repeat functional check in accordance with NAVAIR 17-15BC-22.

1. Perform functional check of oxygen mask assembly.

5-63. FUNCTIONAL CHECK OF THE REGULATOR-TO-SEAT KIT HOSE ASSEMBLY. Perform a functional check in accordance with NAVAIR 13-1-6.3-1.

5-64. DISASSEMBLY.

5-65. DISASSEMBLY OF THE OXYGEN MASK ASSEMBLY. Disassembly of the oxygen mask assembly is performed only to the extent needed to replace a damaged item, or for cleaning in accordance with [paragraph 5-66](#).

5-66. CLEANING AND SANITIZING.

5-67. Cleaning and sanitizing shall be performed only by trained maintenance personnel.

5-68. Cleaning and sanitizing of the oxygen mask assembly shall be accomplished as often as service conditions require, but not less than once every 30 days. Masks not on a personal issue basis shall be sanitized after each use in accordance with [paragraph 5-70](#).

5-69. To clean and sanitize the oxygen mask assembly, proceed as follows:

Table 5-11. Repairs/Fabrications/Installations

Description of Repair/Fabrication/Installation	Application	Paragraph
Replacement of Bayonets and Bayonet Receivers	All masks (when applicable)	5-74
Replacement of M-101/AIC Microphone Assembly	All masks (when applicable)	5-75
Replacement of AM-7067/A Amplifier Assembly	All masks (when applicable)	5-76
Replacement of Cable Assemblies	All masks (when applicable)	5-77
Replacement of MS27796 Connector	All masks (when applicable)	5-79
Replacement of MC-3A or CRK-90 Connector	All masks (when applicable)	5-80
Replacement of Inhalation/Exhalation Valve Assembly	All masks (when applicable)	5-81
Replacement of Delivery Tube	All masks (when applicable)	5-82
Fabrication and Installation of Oxygen Mask Securing Fastener	All masks used with PCU-series torso harness	5-52
Fabrication of Oxygen Mask Storage Bag	All masks used with PCU-series torso harness (optional)	5-84
Installation of Oxygen Mask Storage Bag	All masks used with PCU-series torso harness (optional)	5-84

Table 5-12. Troubleshooting

Trouble	Probable Cause	Remedy
Leakage from facepiece	Loose fit	Hold mask tighter against face If mask is connected to a flight helmet, tighten straps on strap and buckle assemblies
	Improper mask size	Use next smaller mask size. Refer to Section 5-2
Leakage at microphone	Loose screws	Carefully tighten connector screws. Refer to Section 5-6
	Improper seating or defective microphone bracket	Check mating of microphone bracket with microphone. Refer to Section 5-6
		Check microphone connector and bracket for damage or cracks. Replace as necessary
Damaged or misplaced gasket	Replace gasket. Refer to paragraph 5-76	
Leakage from delivery tube	Loose inlet connection or loose or defective hose clamp	Tighten or secure inlet connection. Refer to Section 5-6
		Tighten or replace mask hose clamp. Refer to Section 5-6
Damaged or deteriorated delivery tube	Replace delivery tube. Refer to paragraph 5-82	
Breathing is difficult or inhalation/exhalation valve sticks	Defective oxygen valve	Replace oxygen valve assembly. Refer to paragraph 5-81
	Improperly seated valve nut or washers	Check for proper seating alignment of valve assembly. Reseat as necessary
	Restraint cord not properly secured	Check for 1-inch extension of delivery tube. Refer to paragraph 5-49, step 1
Voice communication difficult or impossible (if microphone is present)	Defective microphone connector or microphone bracket	Replace microphone connector amplifier and/or bracket if necessary. Refer to paragraphs 5-75 and 5-76
Leakage at strap screw	Defective seal on strap screws or incorrect screws	Replace strap screw and tee nut as necessary, tighten to 4 - 6 in-lbs of torque

Materials Required

Quantity	Description	Reference Number
As Required	Gauze Pads, Absorbent	CCC-G-101
As Required	Bleach, Laundry	O-S-602 NIIN 00-598-7316
As Required	Detergent, General Purpose, Type 1 -or-	MIL-D-16791 NIIN 00-282-9699
As Required	Soap, Laundry, Low-filter	P-S-600
As Required	Isopropyl Alcohol	TT-I-735
As Required	SANI-COM-3205	SC3205 (Note)
As Required	Cotton Swabs	6003-0019 NIIN 01-362-5829

Notes: 1. Open Purchase from:
Celeste Industries Corp
7978 Industrial Park Rd.
Easton, MD 21601
(410) 822-6200



Do not use methyl ethyl ketone (MEK) on or near mask. The hard shell and/or facepiece material will craze or crack if it comes in contact with MEK.

1. Disassemble oxygen mask:
 - a. Remove receptacle assembly or AM-7067/A amplifier assembly, microphone bracket, and M-101/AIC microphone in accordance with paragraph 3-81, steps 1 through 3.
 - b. Remove inhalation/exhalation valve assembly in accordance with paragraph 3-81, step 4.
 - c. Remove delivery tube in accordance with paragraph 3-82, steps 1 through 9.
 - d. Remove oxygen mask bag, if installed.
2. Inspect microphone connector for damage, cracks, looseness, and proper seating.
3. Inspect communication cord for cuts and split or abraded insulation.
4. Clean and sanitize the oxygen mask facepiece and housing assembly.

a. (Preferred solution) Make a 1% by weight solution of cleaning compound (Detergent, General Purpose, MIL-D-16791, Type 1) by adding 1/4 to 1/2 ounce (liquid) of the compound to 1 gallon of water.



When the substitute cleaning solution must be used, only the lather from the solution shall be used for cleaning. This prevents undissolved soap solution from getting into the valve.

b. (Alternate solution) Make a suitable soap solution by adding approximately 4 tablespoons of soap powder (P-S-600) to 1 gallon of water. Hardness of water may require more soap, but the solution must be sufficiently strong to readily form lather when agitated. Make sure that all soap particles are dissolved.



Ensure that cleaning solution does not enter inhalation/exhalation valve assembly.

Do not fold nose bridge portion of mask back for cleaning. There are seven ribs which can be easily torn. Damage to the ribs would destroy the structural integrity of the mask. Care shall be taken when cleaning and disinfecting this area.

c. Moisten a gauze pad with cleaning solution. Wash facepiece and housing assembly both internally and externally. Use cotton swabs to clean up under nose bridge portion of mask.

d. After washing, mask should be thoroughly and repeatedly rinsed with warm water.

e. After mask is dry, disinfect with a solution of 1/3 cup of liquid bleach per gallon of water, using gauze pads or other lint-free wipes. Rinse with clean water and allow to air-dry. Ensure disinfectant reaches inner crevices of face form.

5. To clean the delivery hose, proceed as follows:

- a. Wash delivery tube with cleaning solution.
- b. Rinse with clear water and allow to air-dry.

6. To clean the inhalation/exhalation valve assembly, proceed as follows:

WARNING

Isopropyl alcohol is flammable. Keep away from heat, sparks, and open flames. Use with adequate ventilation. Avoid eye and repeated skin contact. Avoid prolonged breathing of vapors. Keep container closed.

CAUTION

The inhalation/exhalation valve must be removed from mask before cleaning.

- a. Obtain a small container large enough to partially submerge the oxygen valve.

NOTE

If a 70% solution of isopropyl alcohol (TT-I-735) is not available, mix 3 parts water and 7 parts isopropyl alcohol.

- b. Fill container half full with a 70% solution of isopropyl alcohol (TT-I-735).

CAUTION

Do not submerge the oxygen valve in water. Do not probe any portion of the valve.

- c. Hold base portion of valve; submerge in partially filled container, and wash operating portion of valve in alcohol solution. Normally only a few seconds are required to remove stains and residue.

- d. Use a cotton swab saturated in isopropyl alcohol to remove stubborn residue. LIGHTLY rub only exhalation plate.

- e. Gently shake excess solution from oxygen valve and allow to air-dry completely.

NOTE

Trapped isopropyl alcohol will evaporate in approximately 15 minutes.

- 7. To clean the microphone, proceed as follows:

- a. Wipe microphone with a cotton swab or soft, clean cloth dampened lightly in cleaning solution.

- b. Rinse with a second cotton swab dampened lightly in clean, potable cold water. Make sure no lint remains on microphone.

CAUTION

Do not use compressed gas for drying as valves may be damaged.

- 8. A dry swab can be used to assist in drying washed items. Be careful that lint is not trapped in valves or mask crevices. Air-dry in a ventilated area out of direct sunlight. The mask and delivery hose may be forced-air dried using a stream of clean, dried, oil-free air or nitrogen. Make sure that parts are completely dry before re-assembling mask.

NOTE

Examine valves, mask, and hose for undissolved soap powder. Ensure that mask and valves are completely dry and lint-free.

- 9. If necessary, the oxygen mask storage bag may be machine or hand washed in water up to 140° F. Tumble dry up to 180° F.

- 10. Reassemble mask and perform functional check.

5-70. SANITIZING NON-PERSONAL ISSUE MASKS. Masks not on a personal-issue basis shall be sanitized after each use as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Bleach, Laundry	O-B-420 NIIN 00-063-2842

- 1. Make cleaning solution by mixing 1/3 cup of bleach with 1 gallon of water.

- 2. Moisten a gauze pad with solution and squeeze to prevent dripping. Wipe interior of mask, exclusive of valves and microphone. Ensure that sanitizing solution penetrates all crevices.

- 3. Wipe valves and microphone with a clean, dry cloth. Ensure that no lint remains in mask, on valves, or on microphone.

5-71. REPAIR.

5-72. Repair of the oxygen mask assembly shall be limited to replacement of defective parts as determined by inspection and troubleshooting. (Refer to [table 5-12.](#)) Any holes or tears noted in any part of the facepiece or delivery hose shall be considered basis for rejection of that component.

5-73. REPLACEMENT.

5-74. REPLACEMENT OF OFFSET BAYONETS AND BAYONET RECEIVERS. To replace the bayonets and bayonet receivers, proceed as follows:

Materials Required

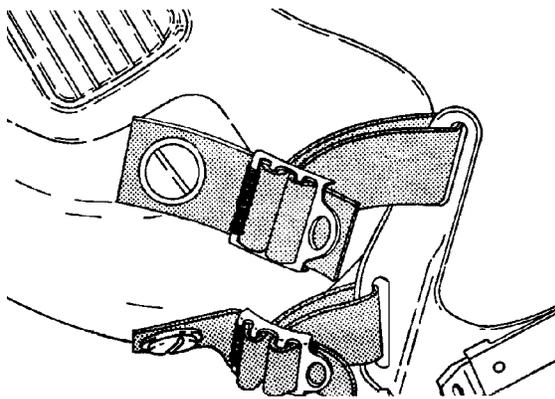
Quantity	Description	Reference Number
2	Receivers	93A8514 (CAGE 97427) NIIN 01-389-6117
1	Offset Bayonet (Left)	70280-10 (CAGE 21914) NIIN 00-186-0276
1	Offset Bayonet (Right)	70280-20 (CAGE 21914) NIIN 00-186-0277

1. To replace the offset bayonet, proceed as follows:

a. If present, cut tacking which secures strap to buckle on strap and buckle assembly.

b. Unthread the four straps from the offset bayonets, and remove the bayonets.

c. Thread the four mask straps through the slots on the new bayonet fittings and through the adjustment buckles, leaving a minimum of 1-inch adjustment length in the straps.



Step 1c - Para 5-74

5p74s1c

NOTE

After replacement of offset bayonets, refer to [paragraph 5-42](#) for fitting procedures.

2. To replace the bayonet receivers, proceed as follows:

a. Remove earcup assemblies from helmet assembly. Peel back pile fastener tape.

b. Remove mounting screws and backup plate securing receiver mechanism to helmet assembly.

c. Attach new receiver assemblies to helmet using screws, lock washers, and backup plates removed in [Step b](#) above.

d. Tighten all mounting screws so that the receivers closely fit the contour of the helmet surface.

NOTE

Adhesive is required for pile fastener tape to stick to helmet.

e. Reattach pile fastener tape over backup plates.

f. Refit earcup assemblies (refer to [Chapter 4](#)).

5-75. REPLACEMENT OF M-101/AIC MICROPHONE ASSEMBLY. To replace the M-101/AIC microphone assembly, proceed as follows:

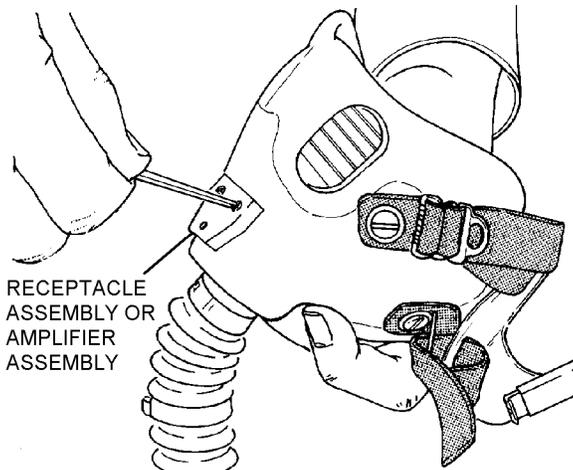
Materials Required

Quantity	Description	Reference Number
1	Microphone Assembly	M-101/AIC (CAGE 81349) NIIN 00-843-9957 (See note)
As Required	Screw, Machine 2-56 x 5/16-Inch Long	MS35275-204 (CAGE 96906) NIIN 00-948-4042
As Required	Adhesive Silicone, Type III, RTV 3145, Clear	MIL-A-46146 NIIN 00-117-8510
	-or-	
As Required	Adhesive Silicone, Type III, RTV 3145, Gray	MIL-A-46146 NIIN 00-145-0020

NOTE

Some masks may still be using an M-94B/A microphone which should be replaced with the M-101/AIC.

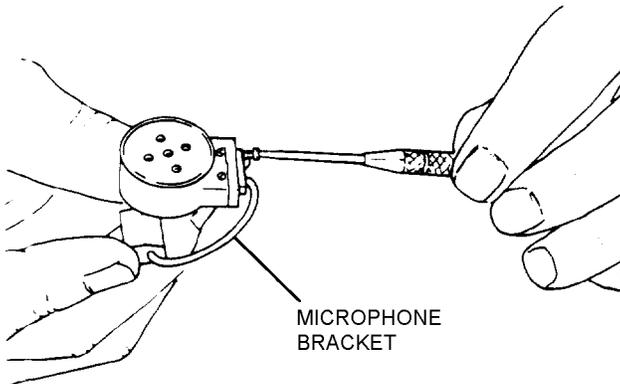
1. Remove two screws from receptacle assembly or amplifier assembly; remove microphone bracket and microphone assembly.



Step 1 - Para 5-75

5p75s1

2. If present, remove sealant from head of two set screws and loosen the two set screws securing microphone assembly to microphone bracket posts, remove two screws securing microphone assembly to microphone bracket.



Step 2 - Para 5-75

5p75s2

3. Slide microphone assembly from microphone bracket assembly.

4. Install replacement microphone assembly onto microphone bracket posts and tighten two set screws, secure microphone assembly to microphone bracket with two screws removed in [step 2](#).

NOTE

Ensure that the two microphone set screws, which secure the microphone assembly to the microphone bracket posts, are tight. To preclude possible electric shock to aircrewmember, apply small amount of RTV sealant over heads of set screws. Allow minimum of 12 hours for sealant to cure.

NOTE

Aircrewmembers may experience a slight electrical shock when the face or lips touch the microphone set screws. In these cases, install the microphone backwards such that the set screws face away from the mouth. The microphone should perform satisfactorily when speaking into either side.

5. Install microphone and bracket into mask and onto amplifier or receptacle, as applicable. Ensure proper seating of amplifier or receptacle and good gasket seal. Attach with two screws removed during [step 1](#).

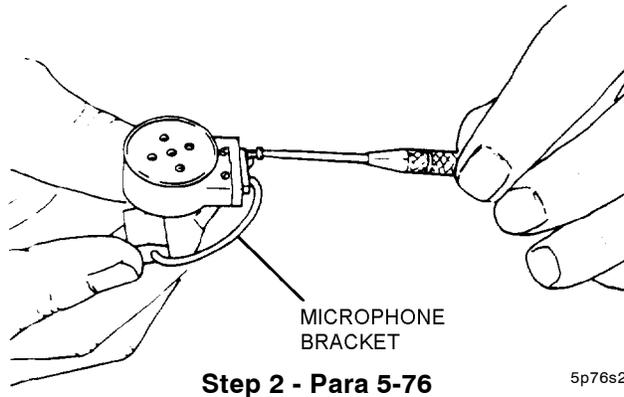
5-76. REPLACEMENT OF AM-7067A/A AMPLIFIER ASSEMBLY. To replace the AM-7067A/A amplifier assembly, proceed as follows:

Materials Required

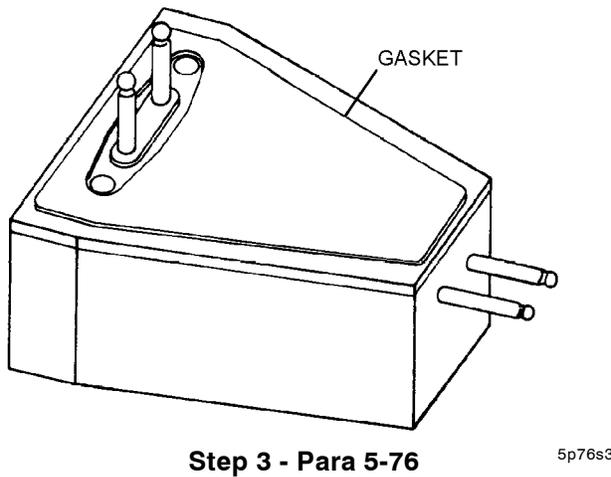
Quantity	Description	Reference Number
1	Amplifier Assembly, AM-7067A/A	M23595/3-3 (81349) NIIN 01-310-6240 -or- 765AS287-1 (CAGE 30003)
As Required	Screw, 2-56 x 3/4-Inch Long	MS35275-209 NIIN 00-941-3545

1. Remove cable assembly from AM-7067A/A amplifier assembly.

2. Remove two screws from AM-7067A/A amplifier assembly; slide microphone bracket with microphone assembly from amplifier assembly.



3. Place amplifier gasket onto new amplifier.



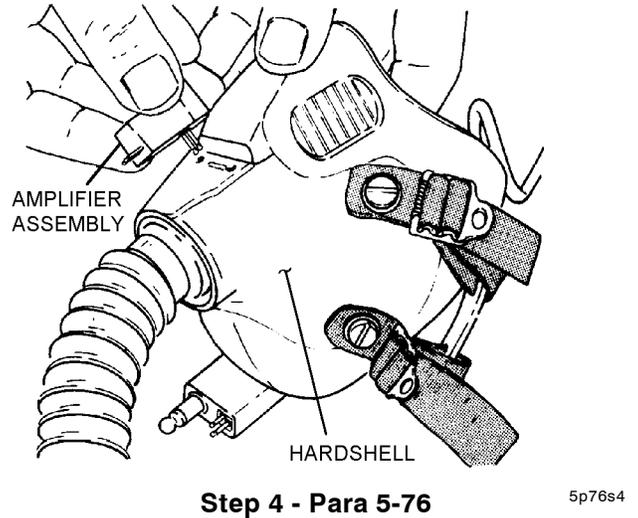
CAUTION

Ensure that screws are tight enough to form a good seal between amplifier and hardshell, but do not strip screws or crack amplifier.

NOTE

Aircrewmembers may experience a slight electrical shock when the face or lips touch the microphone set screws. In these cases, install the microphone backwards such that the set screws face away from the mouth. The microphone should perform satisfactorily when speaking into either side.

4. Install microphone and bracket into mask and onto amplifier assembly. Ensure proper seating of amplifier and good gasket seal. Attach using screws and washers removed in [step 2](#).



5. Reinstall cable assembly to amplifier assembly.

5-77. REPLACEMENT OF CX-13154/A AND CX-4434/U CABLE ASSEMBLIES. To replace the CX-13134/A and CX-4434/U cable assemblies, proceed as follows:

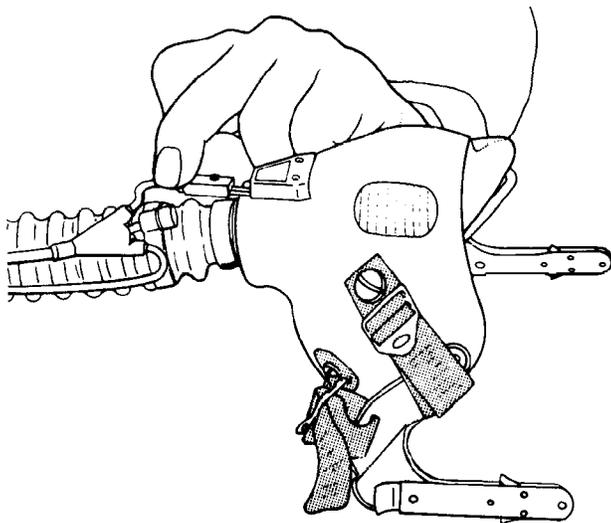
Materials Required

Quantity	Description	Reference Number
1	Cable Assembly (CX-13154/A)	P/N 765AS380-1 (CAGE 30003)
1	Cable Assembly, 16-Inch (CX-4434/U)	P/N 57C12661-1-2-1-4 (CAGE 80058) NIIN 00-890-8614
1	Elastrator	P/N 00-6279 (CAGE 53655) NIIN 01-124-0649



Care should be taken not to overexpand cable guides with elastrator. Open only enough to pass cable assembly through opening.

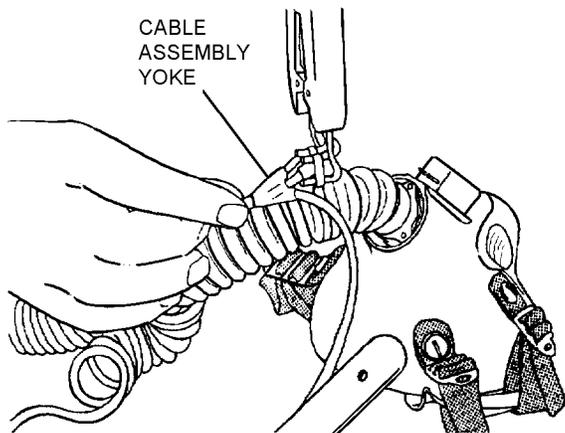
1. Disconnect cable assembly from corresponding receptacle assembly, amplifier assembly, or cable assembly.



Step 1 - Para 5-77

5p77s1

2. Pass elastrator through opening in upper cable guide, stretch open and remove cable assembly.

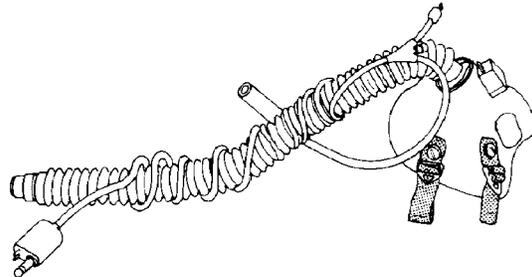


Step 2 - Para 5-77

5p77s2

3. Install upper portion of new cable assembly through opening in cable guide and remove elastrator.

4. Let cable assembly hang loose off delivery tube.



Step 4 - Para 5-77

5p77s4

5. Plug cable assembly into corresponding receptacle assembly, amplifier assembly or cable assembly.

5-78. REPLACEMENT OF CX-13126A/A OR CX-13127/A CABLE ASSEMBLIES. To replace the CX-13126A/A and CX-13127/A cable assemblies, proceed as follows:

NOTE

The CX-13126/A cable was modified by Avionics Change No. 2748. The new cable is designated CX-1326A/A.

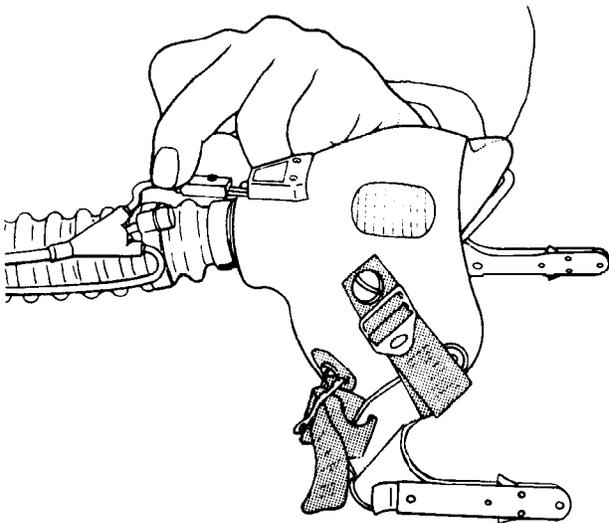
Materials Required

Quantity	Description	Reference Number
1	Cable Assembly (CX-13126A/A)	P/N M22442/26-3 NIIN 01-209-3117
1	Cable Assembly (CX-13127/A)	P/N M22442/42-1 NIIN 01-309-4909
1	Elastrator	P/N 00-6279 (CAGE 53655) NIIN 01-124-0649
As Required	Electrical Tape, 3/4-Inch, Black	MIL-I-24391 NIIN 00-419-4291

CAUTION

Care should be taken not to overexpand cable guides with elastrator. Open only enough to pass cable assembly through opening.

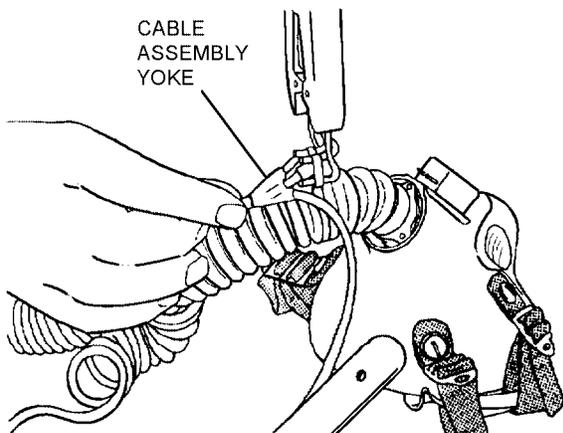
1. Disconnect cable assembly from corresponding receptacle assembly, amplifier assembly, or cable assembly.



Step 1 - Para 5-78

5p78s1

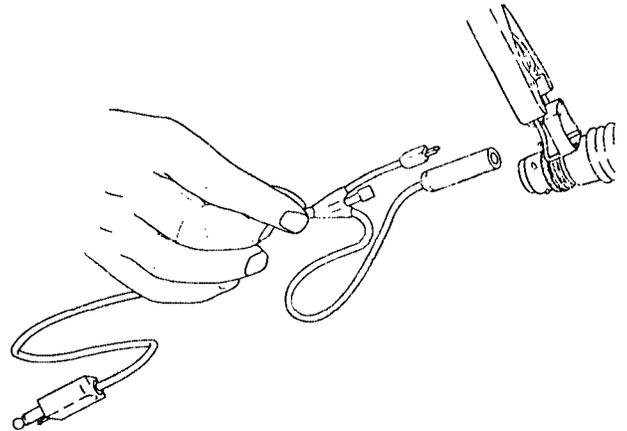
2. Pass elastrator through opening in upper cable guide, stretch open and remove cable assembly.



Step 2 - Para 5-78

5p78s2

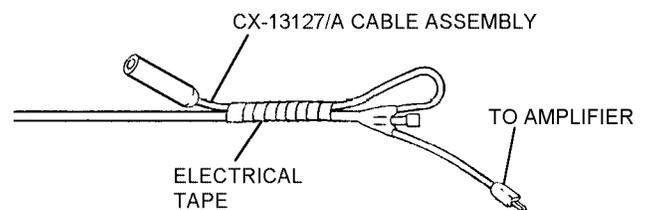
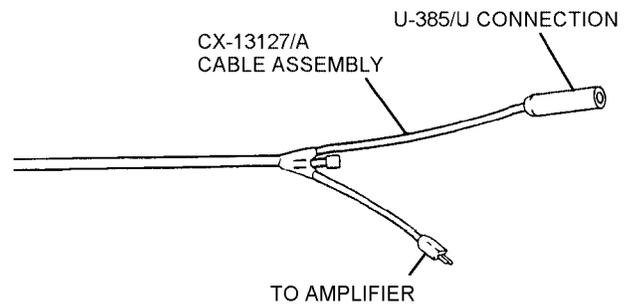
3. Unwrap old cable assembly from delivery tube. Pass elastrator through opening in lower cable guide; stretch open and remove cable assembly. Insert upper portion of new cable assembly through opening in cable guide and feed cable through guide until approximately 6 inches of cable remains below lower cable guide. Remove elastrator.



Step 3 - Para 5-78

5p78s3

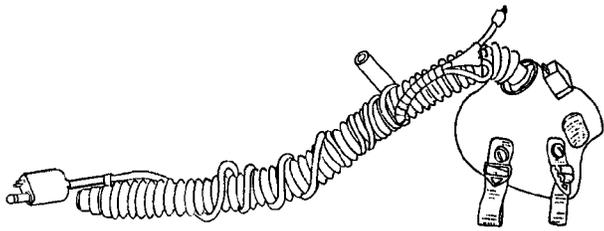
4. (CX-13127/A only). Prior to installing cable in upper cable guide, secure U-385/U connector by bending back communication cable and fastening with electrical tape to the main cable.



Step 4 - Para 5-78

5p78s4

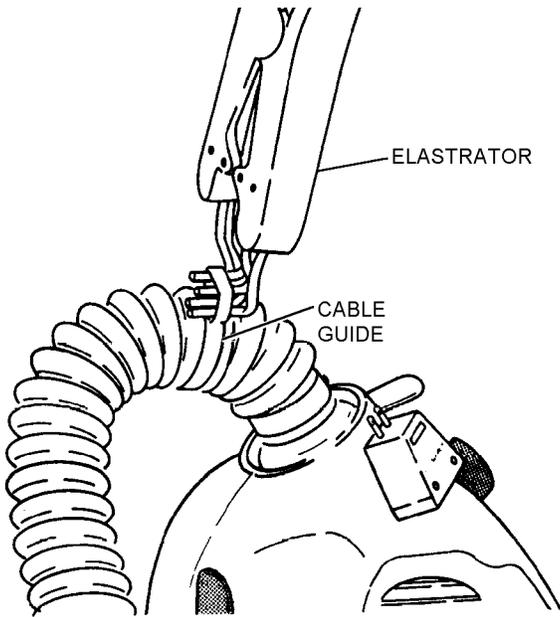
5. Wrap cable assembly around delivery tube.



Step 5 - Para 5-78

5p78s5

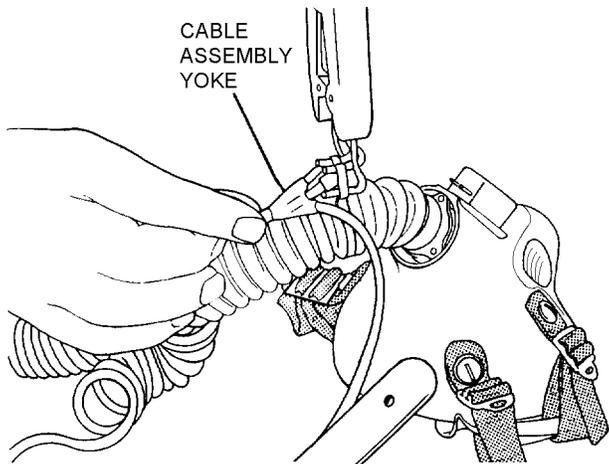
6. Pass elastrator through opening in upper cable guide and stretch open.



Step 6 - Para 5-78

5p78s6

7. Place nub of yoke from upper portion of cable assembly through opening of upper cable guide and remove elastrator.



Step 7 - Para 5-78

5p78s7

8. Plug cable assembly into corresponding receptacle assembly, amplifier assembly, or cable assembly.

5-79. REPLACEMENT OF THE MS27796 CONNECTOR. To replace the MS27796 connector, proceed as follows:

Materials Required

Quantity	Description	Reference Number
1	Connector	MS27796 NIIN 00-730-2247
1	Hose Clamp Pliers (See note)	P/N 450-813 (CAGE 53655) NIIN 01-073-4187

NOTE

If installing electrical tiedown strap instead of hose clamp (P/N 450-134A or P/N MS22064-5), pliers are not required.

1. Slide lower cable guide up to expose lower hose clamp.



Carefully avoid puncturing or otherwise damaging delivery tube with hose clamp tool or screwdriver.

NOTE

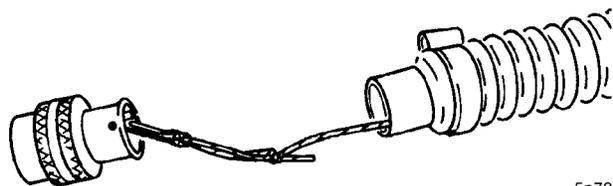
For ease of removing (or installing) hose clamps, place a small screwdriver under and slightly behind the hook.

2. Remove lower hose clamp, using hose clamp pliers and a small screwdriver. If installed, discard two locking position hose clamps.



Do not reuse two locking position hose clamps.

3. Slide MS27796 connector from delivery tube far enough to permit removal of cord and snap assembly.



Step 3 - Para 5-79

5p79s3

CAUTION

Care should be taken when removing pin from connector not to damage shell of connector.

4. Remove pin from connector using 3/32-inch drive punch, and remove cord and snap assembly.

CAUTION

Care should be taken to avoid damage to connector shell when inserting pin into connector.

5. Install cord and snap assembly to MS27796 connector; replace pin and slide connector into delivery tube.

CAUTION

Tighten mask hose clamp only enough to retain and seal the delivery tube in the MS27796 connector. An excessively tightened clamp may damage the tube or connector.

NOTE

Electrical tiedown straps may be used in place of hose clamp (P/N 450-134A or P/N MS22064-5), refer to [paragraph 5-83](#) for tiedown strap installation.

6. Using hose clamp pliers, install hose clamp over lower end of delivery tube and tighten.

7. Slide cable guide over lower hose clamp.

5-80. REPLACEMENT OF THE MC-3A OR CRK-90 CONNECTOR. To replace the connector, proceed as follows:

Materials Required

Quantity	Description	Reference Number
1	Connector (Type MC-3A)	MS22016-1 NIIN 00-694-8121
	-or-	
1	Connector (Type CRK-90)	P/N 1888AS100-1
1	Hose Clamp Pliers (See note)	P/N 450-813 (CAGE 53655) NIIN 01-073-4187

NOTE

If installing electrical tiedown strap instead of hose clamp (P/N 450-134A or P/N MS22064-5), pliers are not required.

1. Slide lower cable guide up to expose lower hose clamp.

CAUTION

Carefully avoid puncturing or otherwise damaging delivery tube with hose clamp tool or screwdriver.

NOTE

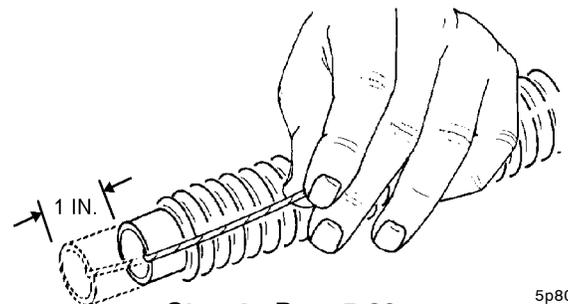
For ease of removing (or installing) hose clamps, place a small screwdriver under and slightly behind the hook.

2. Remove lower hose clamp, using hose clamp pliers and a small screwdriver. If installed, discard two locking position hose clamps.

WARNING

Do not reuse two locking position hose clamps.

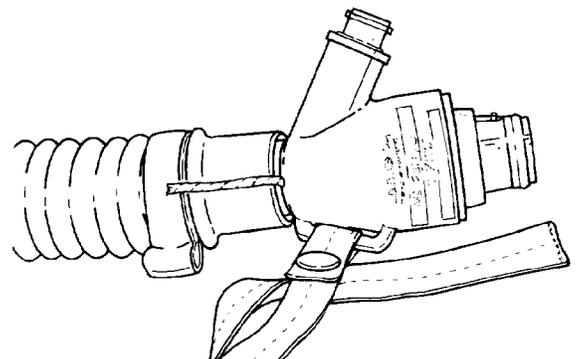
3. Slide connector from delivery tube.
4. Route nylon cord outside delivery tube. Adjust so that there is no more than 1-inch extension in delivery tube when pulled from each end.



Step 4 - Para 5-80

5p80s4

5. Install new connector into delivery tube.



Step 5 - Para 5-80

5p80s5

CAUTION

Tighten mask hose clamp only enough to retain and seal the delivery tube on the connector. An excessively tightened clamp may damage the tube or connector.

NOTE

Electrical tiedown straps may be used in place of mask hose (P/N 450-134A or P/N MS22064-5), refer to [paragraph 5-83](#) for tiedown strap installation.

6. Using hose clamp pliers, install hose clamp over nylon cord and lower end of delivery tube and tighten.

7. Slide cable guide over lower hose clamp.

5-81. REPLACEMENT OF INHALATION/EXHALATION VALVE ASSEMBLY. To replace the inhalation/exhalation valve assembly proceed as follows:

Materials Required

Quantity	Description	Reference Number
1	Inhalation/Exhalation Valve Assembly	P/N 211-60 (CAGE 15927) NIIN 01-443-8133 -or- P/N G001-5030-01 (CAGE 60240)
1	Valve Wrench (See note)	P/N 211-838-1 (CAGE 53655) NIIN 00-350-8575
1	Hose Clamp Pliers (See note)	P/N 450-813 (CAGE 53655) NIIN 01-073-4187

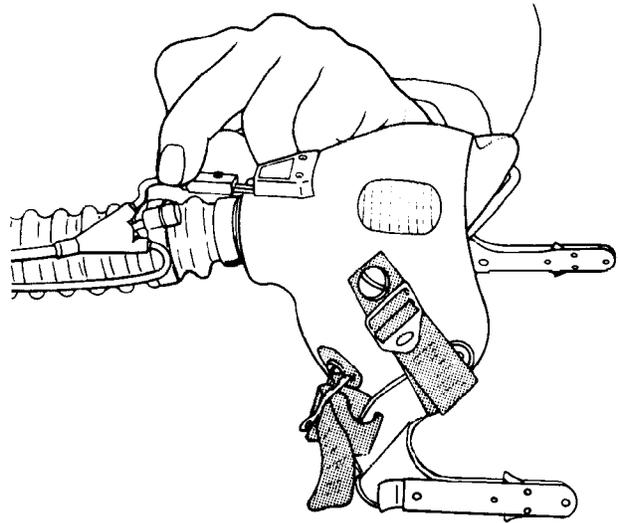
NOTE

If installing electrical tiedown strap instead of hose clamp (P/N 450-134A or P/N MS22064-5), pliers are not required.

Valve assemblies used in the mask are interchangeable as assemblies only, but parts are not. Intermixing of valve assembly parts increases the chances of inadvertent valve separation from mask. When tightening valve nuts, ensure only MBU-12/P valve wrench is used. Use of other wrenches may cause misalignment of threads and damage to threading.

The receptacle assembly is shown in these procedures for illustration purposes.

1. Disconnect cable assembly from receptacle assembly or AM-7067A/A amplifier assembly.



Step 1 - Para 5-81 5p81s1

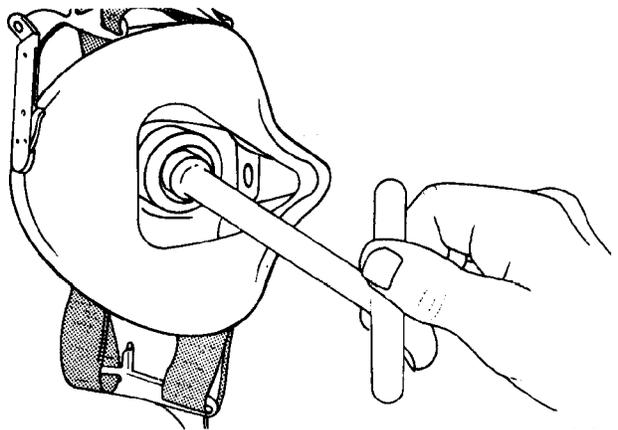
2. Remove two screws from receptacle assembly or AM-7067A/A amplifier assembly, and remove unit from mask.

3. Remove microphone bracket and M-101/AIC microphone from inside of facepiece.

WARNING

Do not salvage any part from valves which require replacement.

4. Using valve wrench unscrew valve nut from oxygen valve. Remove valve nut, bearing washer, isolation washer, oxygen valve, sealing washer, delivery tube, and connector assembly as a unit from faceform. Discard all used valve parts.



Step 4 - Para 5-81 5p81s4

CAUTION

Carefully avoid puncturing or otherwise damaging delivery tube with hose clamp tool or screwdriver.

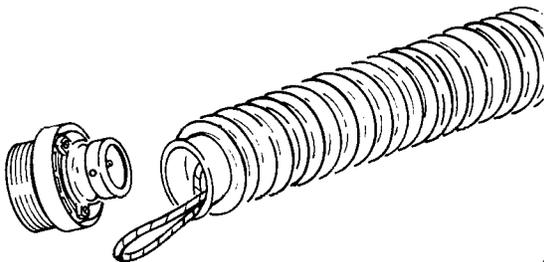
NOTE

For ease of removing (or installing) hose clamp, place a small screwdriver under and slightly behind the hook. Do not reuse two-position hose clamps.

5. Remove upper hose clamp using hose clamp pliers and a small screwdriver. If installed, discard two locking position hose clamps. Slide delivery tube from valve. Disconnect nylon cord from valve and discard valve.

WARNING

Do not reuse two locking position hose clamps.



Step 5 - Para 5-81

5p81s5

6. Tie restraint cord and snap assembly to pin in base of new oxygen valve using a lark's head knot.

CAUTION

Tighten mask hose clamp only enough to retain and seal the delivery tube on the valve. An excessively tightened clamp may damage the tube or valve.

7. Slide delivery tube onto stem of new oxygen valve and ensure proper seating of valve stem head with mating tube bead groove.

NOTE

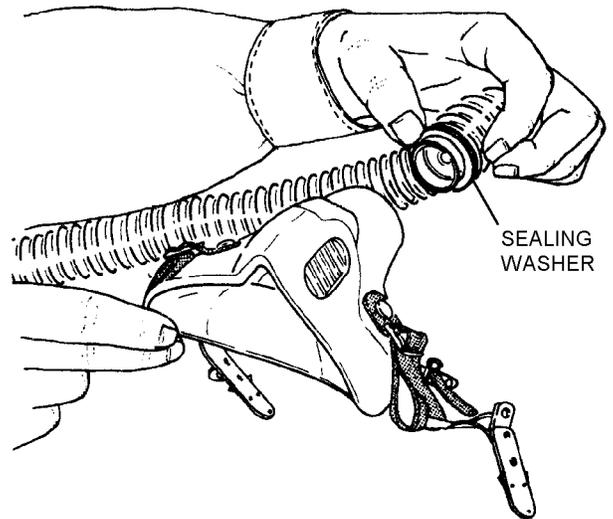
Electrical tiedown straps may be used in place of mask hose clamps (P/N 450-134A or P/N MS22064-5), refer to [paragraph 5-83](#) for tiedown strap installation.

8. Using hose clamp pliers, install hose clamp over valve stem and upper end of tube assembly and tighten.

CAUTION

Ensure removal of old sealing washer from facepiece housing before installation of new oxygen valve assembly.

9. Install new sealing washer, (smaller diameter silicone washer supplied with valve) on upper stem of oxygen valve, and insert upper valve stem into its port in hardshell and facepiece assembly.



Step 9 - Para 5-81

5p81s9

NOTE

Isolation washer is soft silicone rubber and bearing washer is semi-rigid plastic or aluminum and is black in color.

10. Install isolation washer ([figure 5-14](#)) and then bearing washer over upper valve stem end inside facepiece. Align washers on upper surface of hardshell inner port flange.

CAUTION

Ensure proper valve wrench is used to tighten valve nut. Carefully avoid overtightening valve nut. Excessive tightening may misalign, unseat sealing washer, or damage threads on valve nut and valve stem. Valve parts from different vendors are not interchangeable (washer and nuts).

11. Install valve nut on oxygen valve, using valve wrench. Verify that oxygen valve and sealing washer remain centered in facepiece inlet port and that valve nut is not excessively tightened. If, while attempting to tighten

the valve nut, the valve nut loosens, nut has been over-torqued. Valve assembly should then be disposed of since threads on nut and valve stem have been damaged.

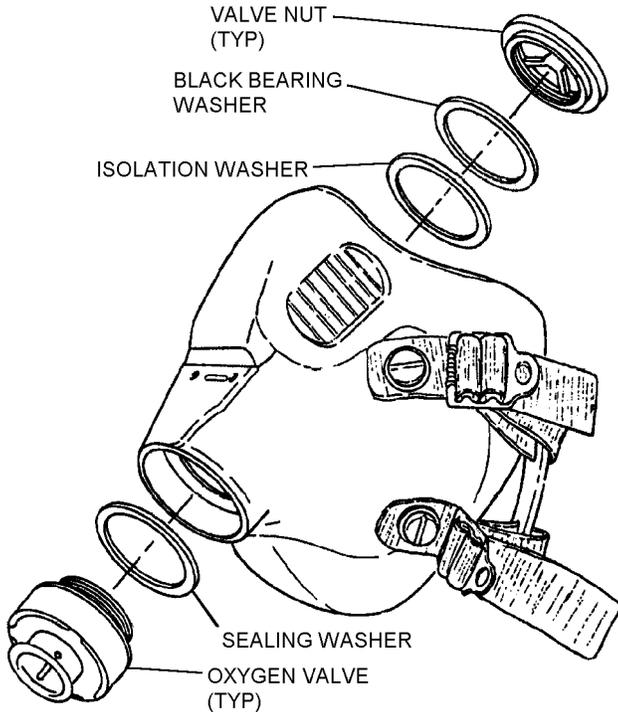
NOTE

Ensure that screws are tight enough to form a good seal between receptacle assembly or amplifier assembly and hardshell, but do not strip screws.

13. Reinstall microphone assembly and microphone bracket into mask and onto receptacle assembly or amplifier assembly; attach with two screws (no. 2-56 x 3/4 lg).

14. Reconnect cable assembly to receptacle assembly or AM-7067/A amplifier assembly.

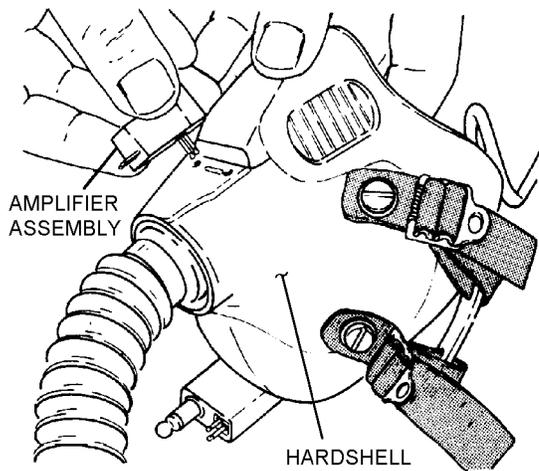
5-82. REPLACEMENT OF DELIVERY TUBE. To replace the delivery tube, proceed as follows:



Steps 10 and 11 - Para 5-81

5p81s10

12. Reinstall receptacle assembly or amplifier assembly into hardshell of mask, ensuring proper seating and good gasket seal.



Step 12 - Para 5-81

5p81s12

Materials Required

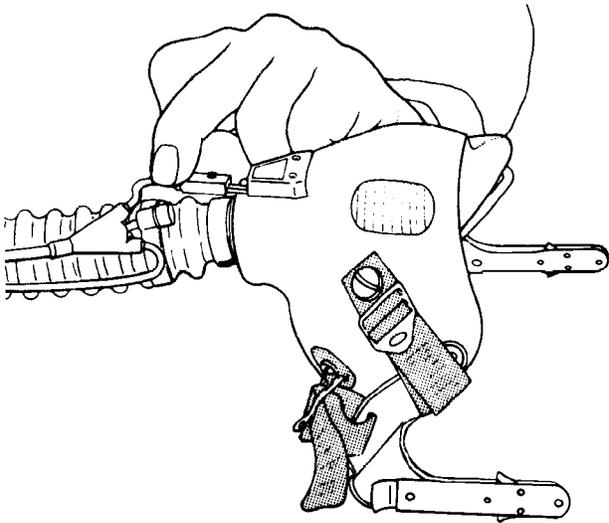
Quantity	Description	Reference Number
1	Delivery Tube	P/N 834-18 (CAGE 92114) -or- P/N G012-1036-01 (CAGE 60240) -or- P/N G002-3640-01 (Not E)
1	Hose Clamp Pliers (Not E)	P/N 450-813 (CAGE 53655) NIIN 01-073-4187
1	Elastrator	P/N 00-6297 (CAGE 53655) NIIN 01-124-0649

- Notes:
1. Delivery Tube P/N G002-3640-01 is an optional item available for open purchase from:
Gentex Western Operations
11525 6th Street
Rancho Cucamonga, CA 91730
(909) 481-7667.
 2. If installing electrical tiedown strap instead of hose clamp (P/N 450-134A or P/N MS22064-5), pliers are not required.

NOTE

The receptacle assembly is shown in these procedures for illustration purposes.

1. Disconnect cable assembly from receptacle assembly or AM-7067/A amplifier assembly.



Step 1 - Para 5-82

5p82s1

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2. Slide lower cable guide up to expose lower hose clamp.

WARNING

Do not reuse two locking position hose clamps.

CAUTION

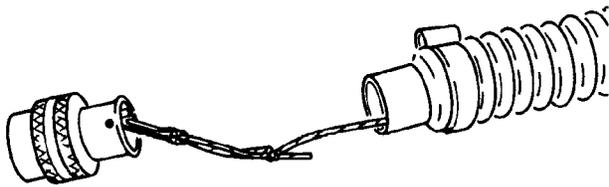
Carefully avoid puncturing or otherwise damaging delivery tube with hose clamp tool or screwdriver.

NOTE

For ease of removing (or installing) hose clamp, place a small screwdriver under and slightly behind the hook.

3. Remove lower hose clamp, using hose clamp pliers and a small screwdriver. If installed, discard two locking position hose clamps.

4. (MS27796 connector) Slide connector from delivery tube far enough to permit removal of cord and snap assembly.



Step 4 - Para 5-82

5p82s4

CAUTION

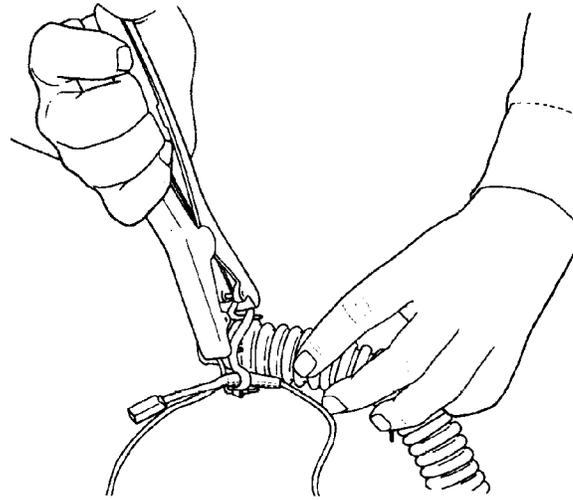
Care should be taken when removing pin from connector not to damage shell of connector.

5. Remove pin from connector, using 3/32-inch drive punch, and remove cord and snap assembly.

6. (MC-3A connector, CRK-90 connector or miniature regulator) Slide connector with regulator-to-seat kit hose assembly or miniature regulator from delivery tube.

7. Remove upper hose clamp, using hose clamp pliers and a small screwdriver. If installed, discard two locking position hose clamps. Slide delivery tube from valve.

8. Using elastrator, remove cable guides from top and bottom of delivery tube.



Step 8 - Para 5-82

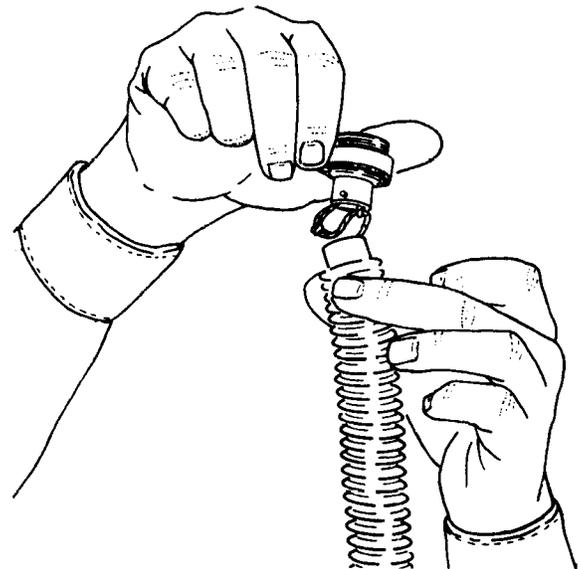
5p82s8

9. Remove cable assembly from delivery tube.

10. Install cable assembly onto new delivery tube.

11. Using elastrator, install cable guides onto top and bottom of delivery tube.

12. Insert (snap) end of cord and snap assembly through top end of delivery tube.



Step 12 - Para 5-82

5p82s12

13. (MS27796 connector) Attach snap end of cord and snap assembly to pin in base of MS27796 connector and replace pin into connector.

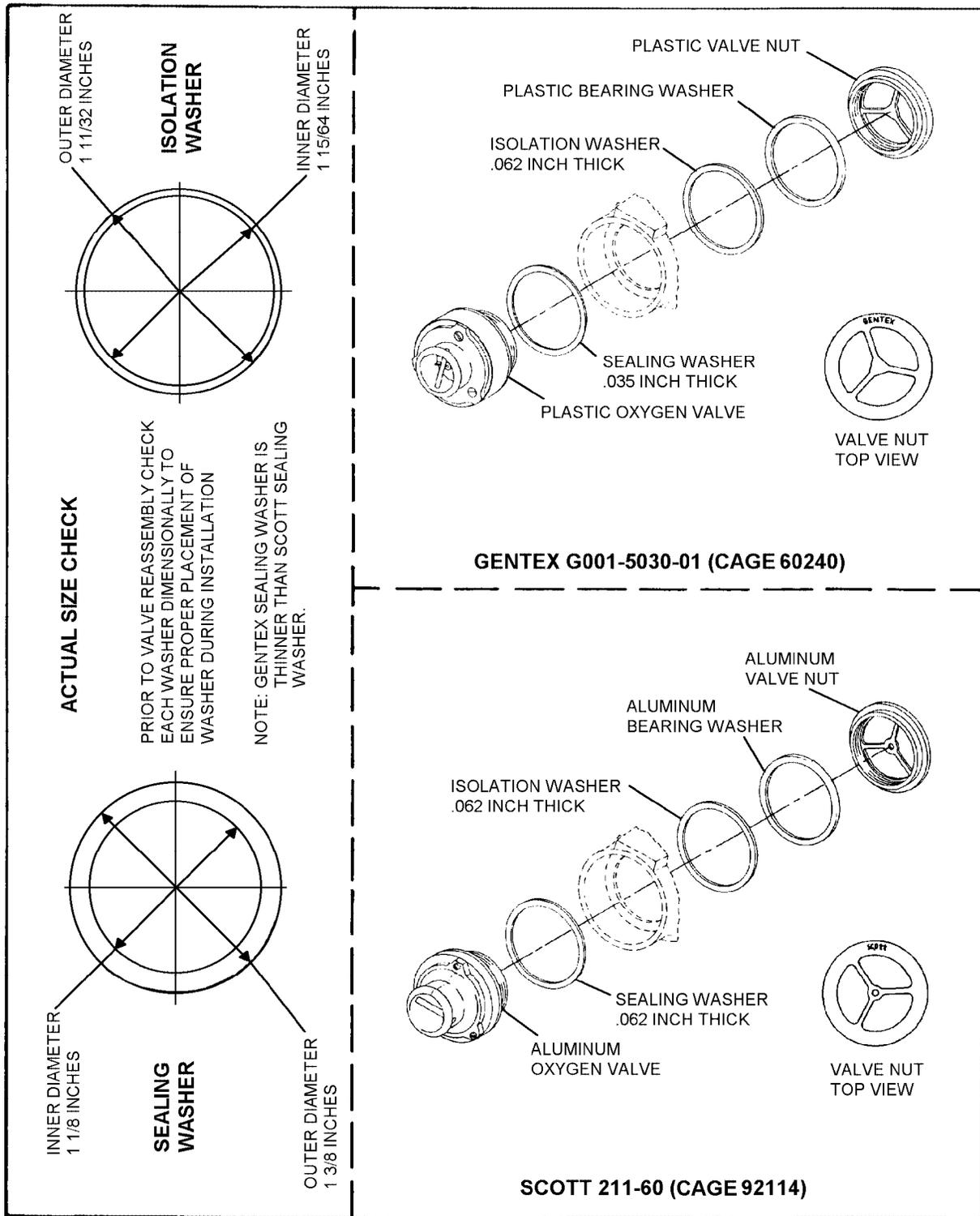
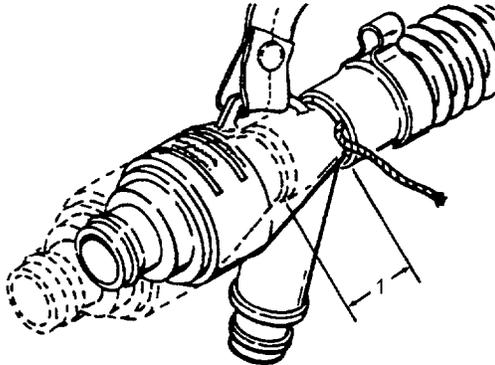


Figure 5-14. MBU-12/P Pressure Demand Oxygen Mask Assembly

14. (MC-3A connector, CRK-90 connector or miniature regulators) Route nylon cord outside delivery tube. Adjust so that there is no more than 1-inch extension in delivery tube when pulled from each end.



Step 14 - Para 5-82

5p82s14

15. Install connector or miniature regulator and regulator-to-seat kit hose assembly into delivery tube.

WARNING

Do not reuse two locking position hose clamps.

CAUTION

Tighten mask hose clamp only enough to retain and seal the delivery tube in the connector or miniature regulator. An excessively tightened clamp may damage the tube or connector.

NOTE

Electrical tiedown straps may be used in place of mask hose clamps (P/N 450-134A or P/N MS22064-5). [Refer to paragraph 5-83 for tiedown strap installation.](#)

16. (MS27796 connector) Using hose clamp pliers, install hose clamp over the connector and lower end of delivery tube and tighten.

17. (MC-3A connector, CRK-90 connector or miniature regulator) Using hose clamp pliers, install hose clamp over nylon cord and lower end of delivery tube and tighten.

18. Lower cable guide over lower cable clamp.

19. Slide delivery tube onto stem of oxygen valve and ensure proper seating of valve stem beads with mating tube bead grooves.

20. Using hose clamp pliers, install hose clamp over valve stem and upper end of delivery tube and tighten.

21. Install cable assembly into receptacle assembly or amplifier assembly.

5-83. INSTALLATION OF ELECTRICAL TIEDOWN STRAPS (OPTIONAL). To replace upper or lower hose clamp with electrical tiedown strap, proceed as follows:

Materials Required

Quantity	Description	Reference Number
1	Installation Tool	MS90387-1 (CAGE 28210) NIIN 00-781-7894
As Required	Strap, Tiedown, Electrical	MS3367-1-0 (CAGE 96906) NIIN 00-984-6582

NOTE

Ensure tiedown strap tool has been lubricated with oxygen safe lubricant. List of safe lubricants can be found in NAVAIR 13-1-6.4-2, Chapter 3.

1. Pass tiedown strap around the delivery tube at desired location (upper or lower attachment point), with ribbed portion inboard.

2. Thread tip of tiedown strap, from left to right, through the eye in the strap boss. Cinch strap snugly around the oxygen delivery hose tube, at the combination valve stem or regulator/connector location.

CAUTION

Ensure upper edge of delivery hose tube is flush with the bottom surface of oxygen mask combination valve for proper seating of valve stem lip into the mating groove. (Located on interior of the delivery tube hose).

3. Set tension selector knob for width of the tiedown strap. The correct setting on the P/N MS390387-1 installation tool is standard (STD) for the P/N MS3367-1-0 tiedown strap. The setting is read from the bottom of tension strap knob on the handle of tool.

4. Pass free end of tiedown strap through the slotted end of the installation tool, keeping open side of slot to users left. Push tip of tool snugly against the strap boss.

NOTE

Installation tool must be positioned with open portion of slot facing and flush against the bottom edge of mask hard shell to ensure upper tiedown strap is in the correct position for tightening.

5. With installation tool correctly positioned, pull trigger. The tool will tighten the tiedown and automatically sever excess strap at the preset location.

NAVAIR 13-1-6.7-3

5-84. FABRICATION AND INSTALLATION OF OXYGEN MASK STORAGE BAG.

5-85. Fabrication. To fabricate oxygen mask storage bag, proceed as follows:

Materials Required (Cont)

Materials Required		
Quantity	Description	Reference Number
12 Inches by 32 Inches	Cloth, Plain and Basket Weave, Aramid Type II, Class I, Sage Green	MIL-C-83429 NIIN 01-147-2064
As Required	Thread, Aramid Spun Staple	MIL-T-83193 NIIN 00-130-6245
	-or-	
As Required	Thread, Nylon, Type II, Size E, Olive Green	V-T-295 NIIN 00-244-0609
7 Inches	Tape, Textile and Webbing, Textile, Reinforcing Nylon, Type III, 3/4-Inch, Olive Green	MIL-T-5038 NIIN 00-176-8083
8 Inches	Fastener Tape, Hook, Type II, Class I, 1-Inch Width, Sage Green	MIL-F-21840 NIIN 00-405-2266

Quantity	Description	Reference Number
9 Inches	Fastener Tape, Pile, Class I, 1-Inch Width, Sage Green	MIL-F-21840 NIIN 00-405-2263
1	Fastener, Slide, Interlocking, Type I, Style 3, Size MS	V-F-106 NIIN 00-935-5967
1	Stop, Interlocking Slide Fastener, Closed Bottom Stop, Staple Type	V-F-106 NIIN 00-276-4939
1	Fastener, Snap, Button	MS27980-1B NIIN 00-359-6844
1	Fastener, Snap, Socket	MS27980-6B NIIN 00-285-6250
8 Inches	Cord, Nylon Type I	MIL-C-5040 NIIN 00-262-2148

NOTE

All stitching should be 8 to 10 stitches per inch. Backstitch at least 1/2 inch on all rows of stitching.

1. Using the pattern provided cut four panels and two tabs of aramid cloth. See [figure 5-15](#).

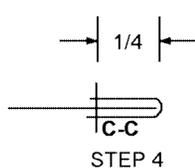
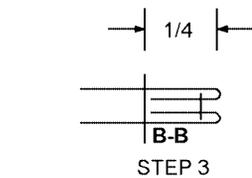
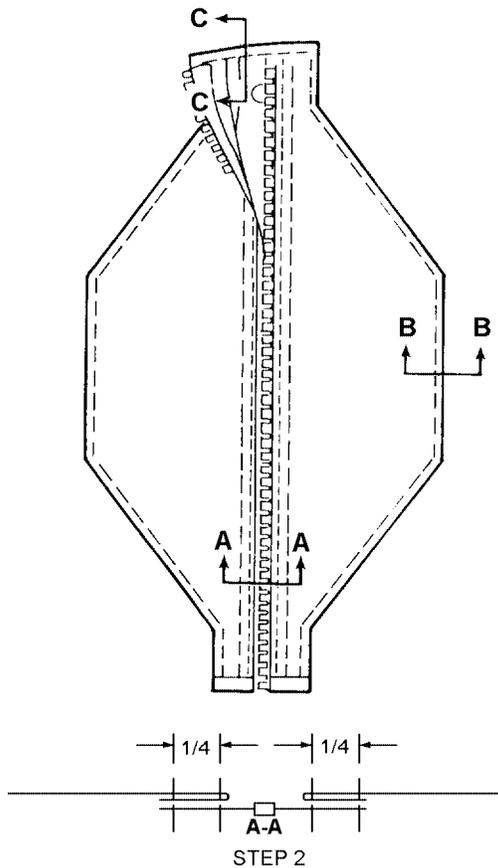
2. Cut one panel in half. Trim ends of slide fastener tape to fit. Remove bottom stop and slider. Install slide fastener as shown.

3. Stitch panel side seams using seam type SSae-2.

4. Cut two 3 1/2-inch pieces of binding tape. Position along top and bottom edges of bag and stitch in place.

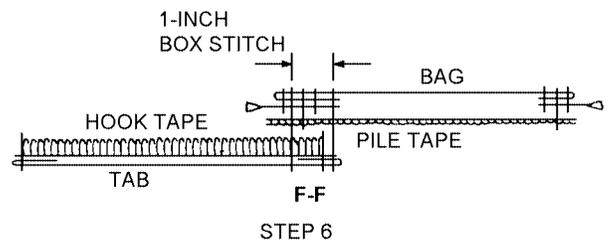
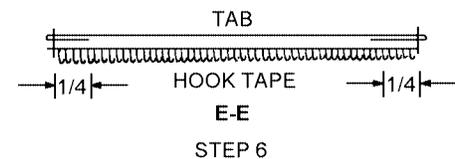
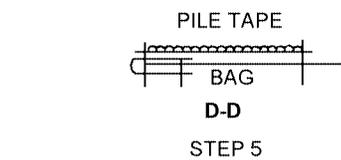
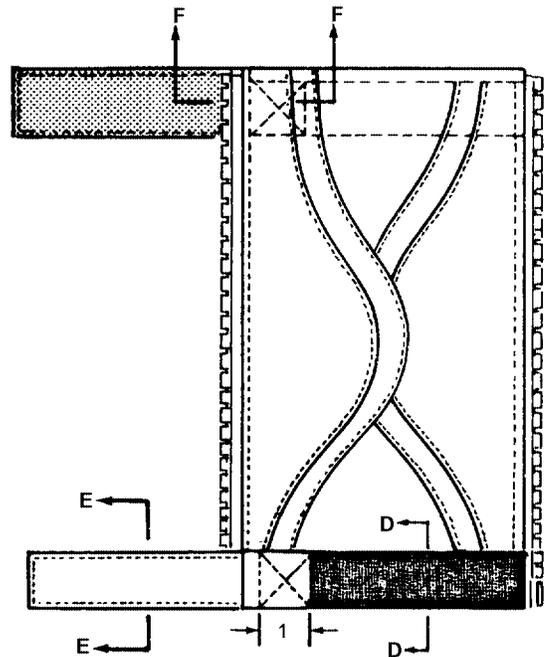
5. Cut two 3-inch pieces of pile tape. Stitch one piece to inside of bag along top edge. Stitch second piece to outside of bag along bottom edge.

6. Cut two 4-inch pieces of hook tape. Construct two tabs, using hook tape and tab pieces cut in [step 1](#). Attach tabs to bag.



Steps 2 thru 4 - Para 5-85

5p85s2



Steps 5 and 6 - Para 5-85

5p85s5

NAVAIR 13-1-6.7-3

7. Attach snap fastener socket and button to back panel as indicated on pattern.

8. Attach slider and bottom stop.

9. To make thong, attach nylon cord to slider pull.

4. Cut one 2-inch piece of hook tape. Stitch to one end of tab.

5. Cut one 2-inch piece of pile tape. Stitch to other side of tab at reverse end.

5-86. Fabrication and Installation of Inner Tab (Optional). To fabricate and install inner tab on oxygen mask bag, proceed as follows:

Materials Required

Quantity	Description	Reference Number
3 Inches by 6 Inches	Cloth, Plain and Basket Weave, Aramid, Type II, Class I, Sage Green	MIL-C-83429 NIIN 01-147-2064
As Required	Thread, Aramid, Spun Staple or Thread Nylon, Type II, Size E, Olive Green	MIL-T-83193 NIIN 00-130-6245 V-T-295 NIIN 00-244-0609
2 Inches	Fastener Tape, Pile, Class I, 1-Inch Width, Sage Green	MIL-F-21840 NIIN 00-405-2263
2 Inches	Fastener Tape, Hook, Type II, Class I, 1-Inch Width, Sage Green	MIL-F-21840 NIIN 00-405-2266

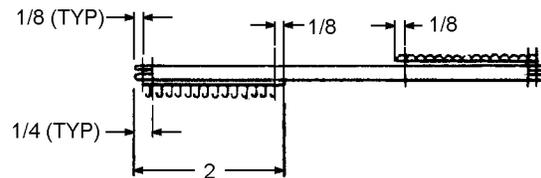
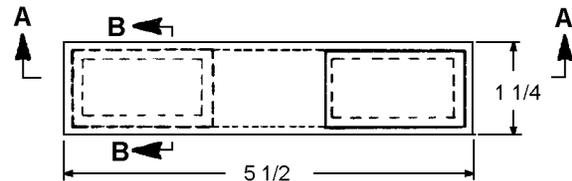
NOTE

All stitching shall be 8 to 10 stitches per inch. Backstitch at least 1/2 inch on all rows of stitching.

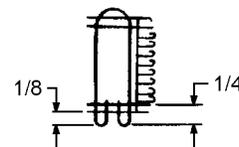
1. Using the pattern provided, cut one inner tab of aramid cloth.

2. Fold lengthwise and stitch. Leave one narrow end unstitched.

3. Turn inside-out, tuck-in the remaining open end and top stitch completely around tab, 1/8-inch from edge.



SECTION A-A



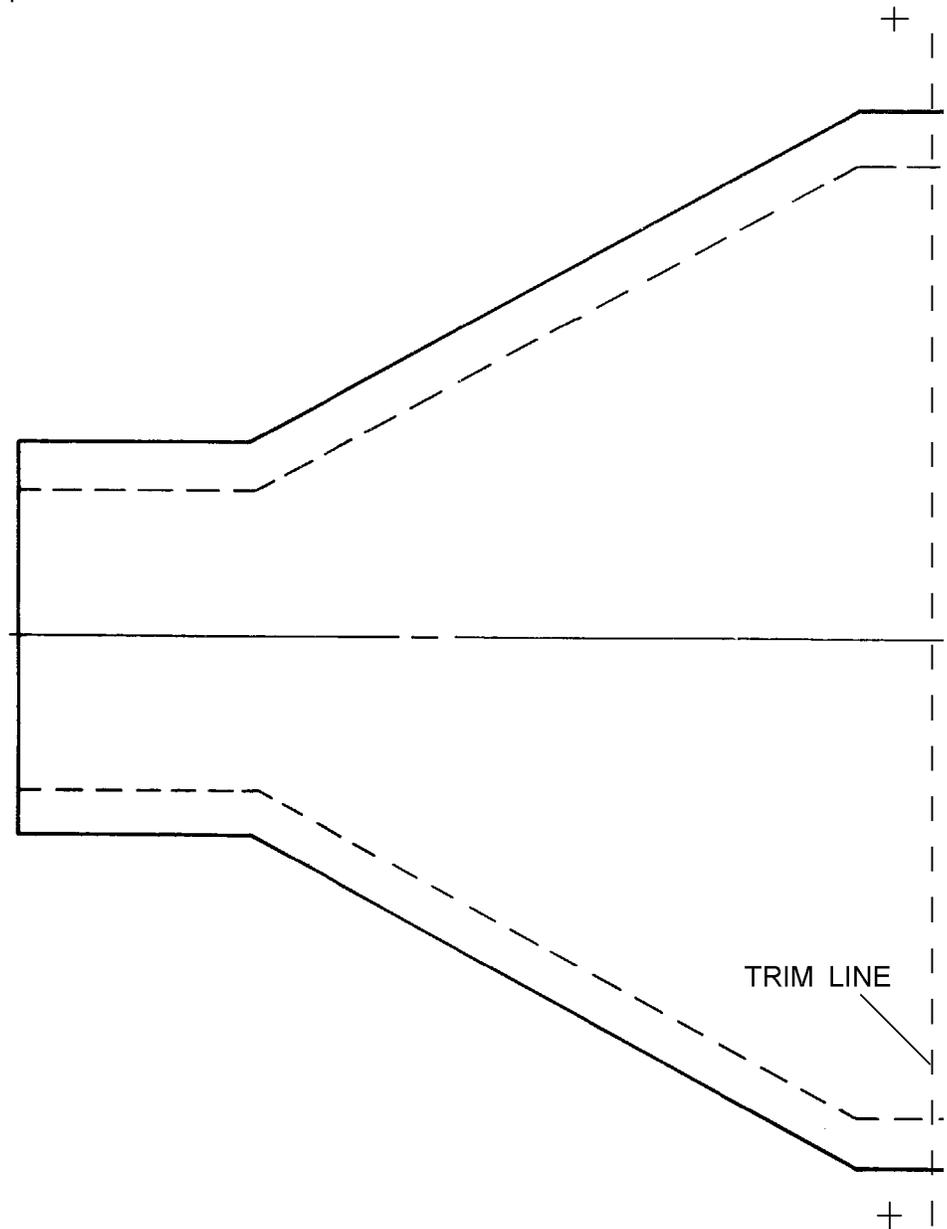
SECTION B-B

Steps 4 and 5 - Para 5-86

5p86s4

NOTE: Procedures for the construction of the pattern.

1. Print out all segments of pattern.
2. Trim all printed segments of pattern at dashed trim line ensuring the alignment marks (crosses) remain on the pattern.
3. Align crosses with adjacent pattern segments and tape in place.
4. After taping, cut out pattern.



This figure has been divided into multiple segments to facilitate the printing of the pattern.

5-15-a

Figure 5-15. Oxygen Mask Storage Bag Pattern (1 of 3)

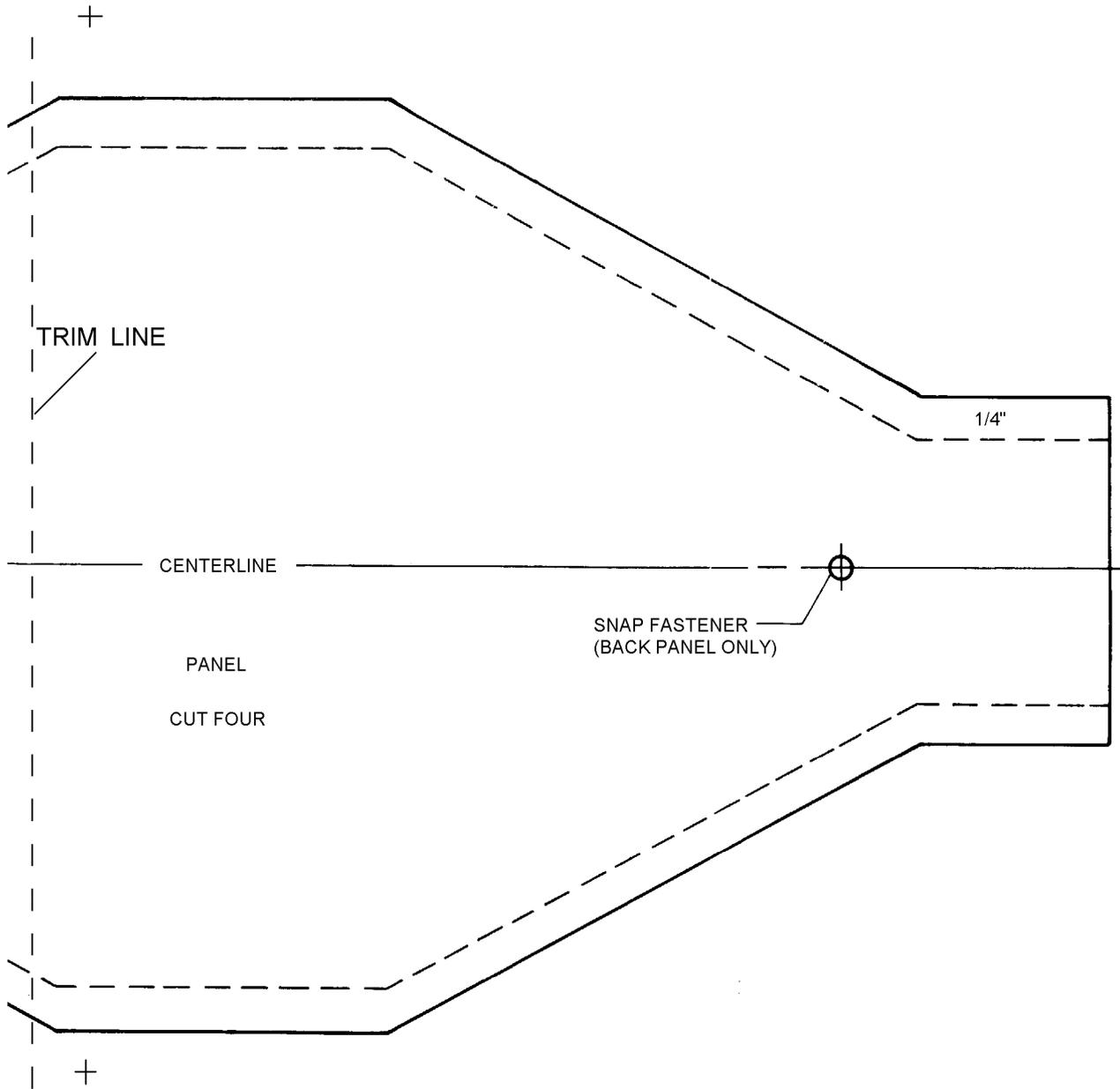


Figure 5-15. Oxygen Mask Storage Bag Pattern (2 of 3)

5-15-b

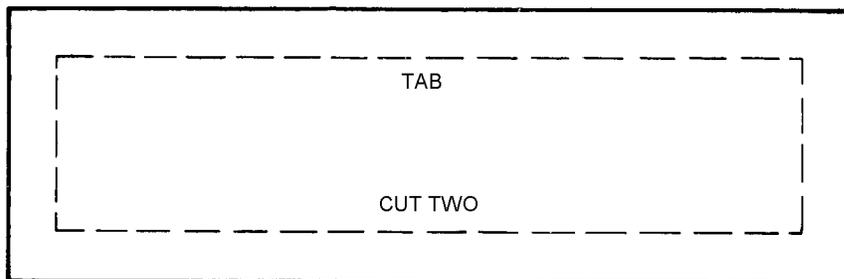
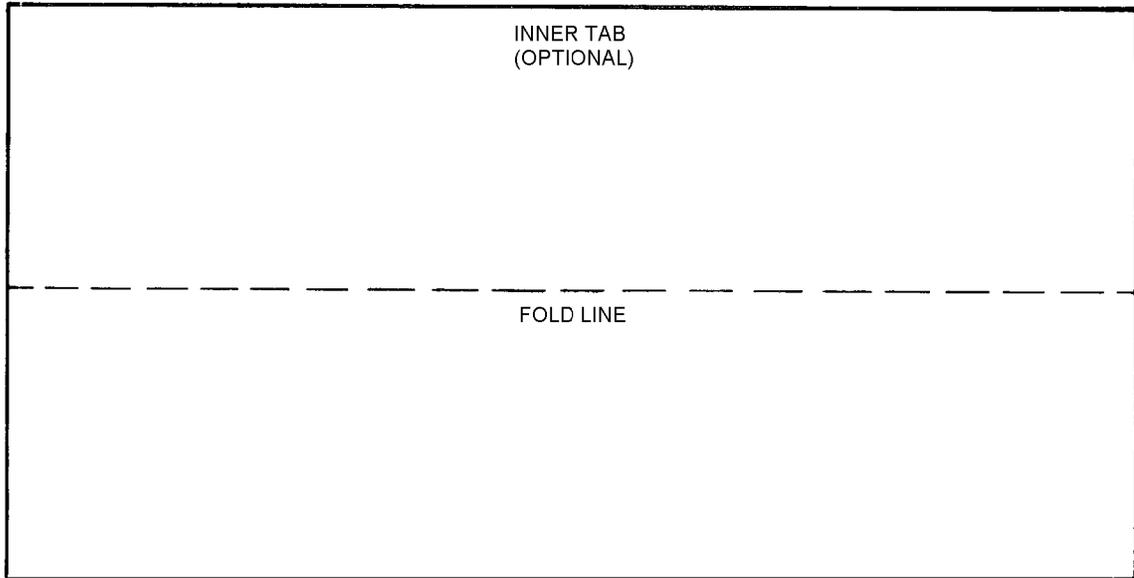
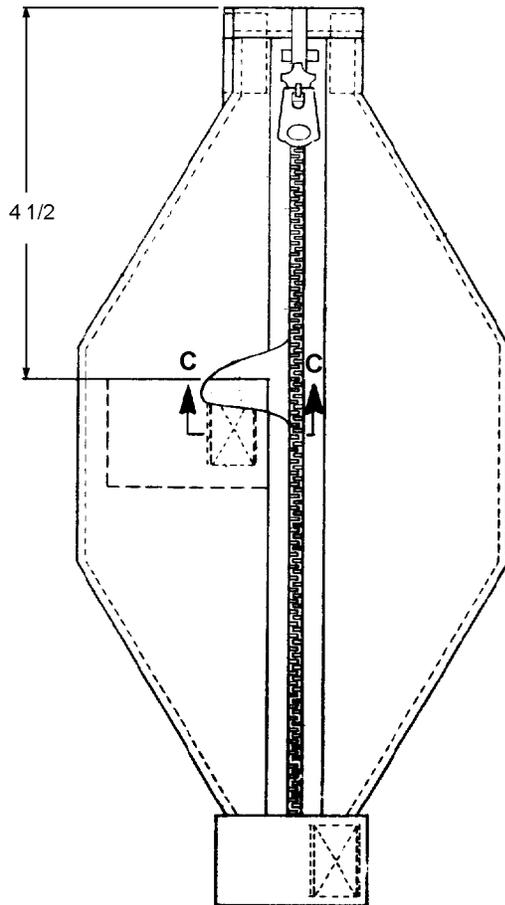


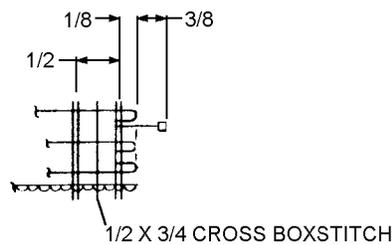
Figure 5-15. Oxygen Mask Storage Bag Pattern (3 of 3)

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6. The finished inner tab is attached to the reverse side of the bag at the mid-section of the slide fastener area using a cross boxstitch.



FRONT VIEW



SECTION C-C

Step 6 - Para 5-86

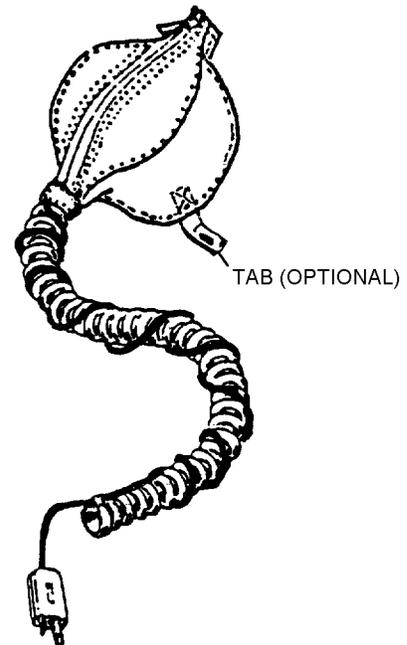
5p86s6

5-87. Installation of Oxygen Mask Storage Bag.
To install the oxygen mask storage bag, proceed as follows:

1. Open slide fastener completely.
2. Insert ends of hose and communication cable through bottom opening of bag. Slide bag up to mask.

3. To insert mask into bag, fold bayonet assemblies down (to prevent damage to mask rubber); pull assembly over mask. Close slide fastener. Top fastener may be rolled and tucked into top opening as shown.

4. Tightly close bottom fastener tab so that bag is secured around base. Hand tack tab in place.

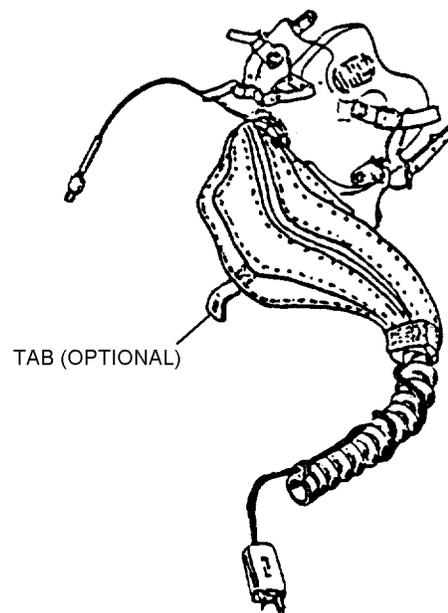


Steps 3 and 4 - Para 5-87

5p87s3

5. Bag and mask can now be snapped on the mating fastener installed on the upper left shoulder of the PCU-series torso harness.

6. To remove oxygen mask from bag for use during flight, proceed as follows:



Step 6 - Para 5-87

5p87s6

NAVAIR 13-1-6.7-3

- a. Open slide fastener.
- b. Peel assembly back from mask and over oxygen hose. Close slide fastener.
- c. Tightly close tab.
- d. Bags which feature the optional inner tab should be secured.

Section 5-6. Illustrated Parts Breakdown

5-88. GENERAL.

5-89. This section lists and illustrates the procurable parts of the Pressure Demand Oxygen Masks.

5-90. The IPB is intended for use in the identification, procurement, storing, and issuing of replacement parts. It also illustrates disassembly and assembly relationships. Installation, operation, and maintenance of these oxygen masks shall only be performed by authorized personnel utilizing the instructions set forth in the preceding sections.

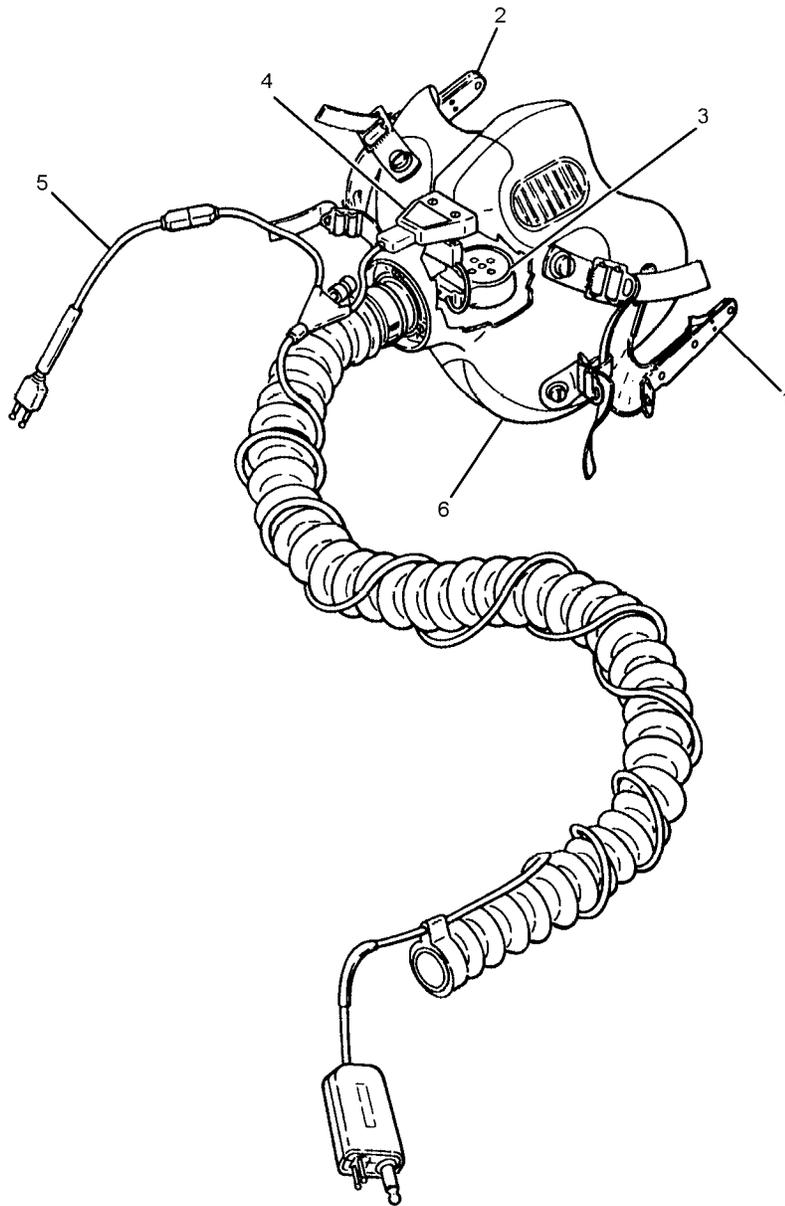


Figure 5-16. MBU-14(V)1/P Pressure Demand Oxygen Mask Assembly

NAVAIR 13-1-6.7-3

Figure and Index Number	Part Number	Description	Units Per Assembly	Usable On Code	
		1 2 3 4 5 6 7			
5-16	No Number	MBU-14(V)1/P PRESSURE DEMAND OXYGEN MASK ASSEMBLY, Short	1	A	
	No Number	MBU-14(V)1/P PRESSURE DEMAND OXYGEN MASK ASSEMBLY, Regular	1	B	
	No Number	MBU-14(V)1/P PRESSURE DEMAND OXYGEN MASK ASSEMBLY, Long	1	C	
	No Number	MBU-14(V)1/P PRESSURE DEMAND OXYGEN MASK ASSEMBLY, Extra-Long	1	D	
	-1	70280-10	. OFFSET BAYONET, Left (CAGE 21914)	1	
	-2	70280-20	. OFFSET BAYONET, Right (CAGE 21914)	1	
	-3	M-101/AIC	. MICROPHONE ASSEMBLY, (CAGE 81349) (Note 1)	1	
	-4	M23595/3-3 765AS287-1	. AM-7067/A AMPLIFIER ASSEMBLY, (CAGE 03487) (CAGE 30003) (Note 2)	1	
	-5	M22442/26-3	. CX-13126A/A CABLE ASSEMBLY	1	
	-6	834-75-01 G012-1050-01	. MBU-12/P PRESSURE DEMAND OXYGEN MASK SUBASSEMBLY, Short (CAGE 92114) (CAGE 60240) (See figure 5-22 for breakdown)	1	A
		834-75-02 G012-1050-02	. MBU-12/P PRESSURE DEMAND OXYGEN MASK SUBASSEMBLY, Regular (CAGE 92114) (CAGE 60240) (See figure 5-22 for breakdown)	1	B
		834-75-03 G012-1050-03	. MBU-12/P PRESSURE DEMAND OXYGEN MASK SUBASSEMBLY, Long (CAGE 92114) (CAGE 60240) (See figure 5-22 for breakdown)	1	C
		834-75-04 G012-1050-04	. MBU-12/P PRESSURE DEMAND OXYGEN MASK SUBASSEMBLY, Extra-Long (CAGE 92114) (CAGE 60240) (See figure 5-22 for breakdown)	1	D
Notes:		1. M-101/AIC microphone assembly replaces the M-94B/A microphone by attrition. 2. Amplifier assembly M23595/3-3 or 765AS287-1 replaces receptacle assembly which is part of MBU-12/P oxygen mask assembly.			

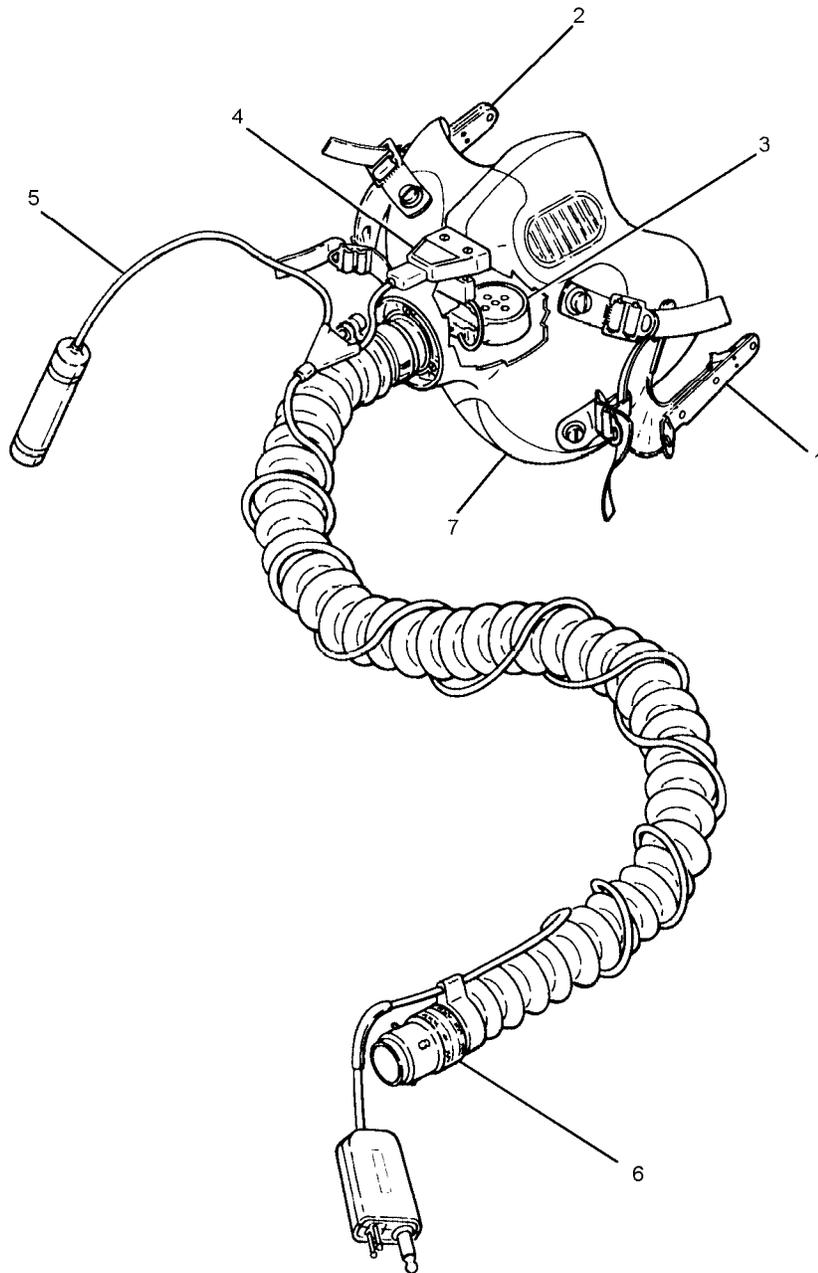


Figure 5-17. MBU-15/P Pressure Demand Oxygen Mask Assembly

NAVAIR 13-1-6.7-3

Figure and Index Number	Part Number	Description	Units Per Assembly	Usable On Code	
		1 2 3 4 5 6 7			
5-17	No Number	MBU-15/P PRESSURE DEMAND OXYGEN MASK ASSEMBLY, Short	1	A	
	No Number	MBU-15/P PRESSURE DEMAND OXYGEN MASK ASSEMBLY, Regular	1	B	
	No Number	MBU-15/P PRESSURE DEMAND OXYGEN MASK ASSEMBLY, Long	1	C	
	No Number	MBU-15/P PRESSURE DEMAND OXYGEN MASK ASSEMBLY, Extra-Long	1	D	
	-1	70280-10	. OFFSET BAYONET, Left (CAGE 21914)	1	
	-2	70280-20	. OFFSET BAYONET, Right (CAGE 21914)	1	
	-3	M-101/AIC	. MICROPHONE ASSEMBLY (CAGE 81349) (Note 1)	1	
	-4	M23595/3-3 765AS287-1	. AM-7067/A AMPLIFIER ASSEMBLY, (CAGE 03487) (CAGE 30003) (Note 2)	1	
	-5	M22442/42-1	. CX-13127/A CABLE ASSEMBLY	1	
	-6	MS27796	. CONNECTOR, Bayonet	1	
	-7	834-75-01 G012-1050-01	. MBU-12/P PRESSURE DEMAND OXYGEN MASK SUBASSEMBLY, Short (CAGE 92114) (CAGE 60240) (See figure 5-22 for breakdown)	1	A
		834-75-02 G012-1050-02	. MBU-12/P PRESSURE DEMAND OXYGEN MASK SUBASSEMBLY, Regular (CAGE 92114) (CAGE 60240) (See figure 5-22 for breakdown)	1	B
		834-75-03 G012-1050-03	. MBU-12/P PRESSURE DEMAND OXYGEN MASK SUBASSEMBLY, Long (CAGE 92114) (CAGE 60240) (See figure 5-22 for breakdown)	1	C
		834-75-04 G012-1050-04	. MBU-12/P PRESSURE DEMAND OXYGEN MASK SUBASSEMBLY, Extra-Long (CAGE 92114) (CAGE 60240) (See figure 5-22 for breakdown)	1	D
Notes:		1. M-101/AIC microphone assembly replaces the M-94B/A microphone by attrition. 2. Amplifier assembly M23595/3-3 or 765AS287-1 replaces receptacle assembly which is part of MBU-12/P oxygen mask assembly.			

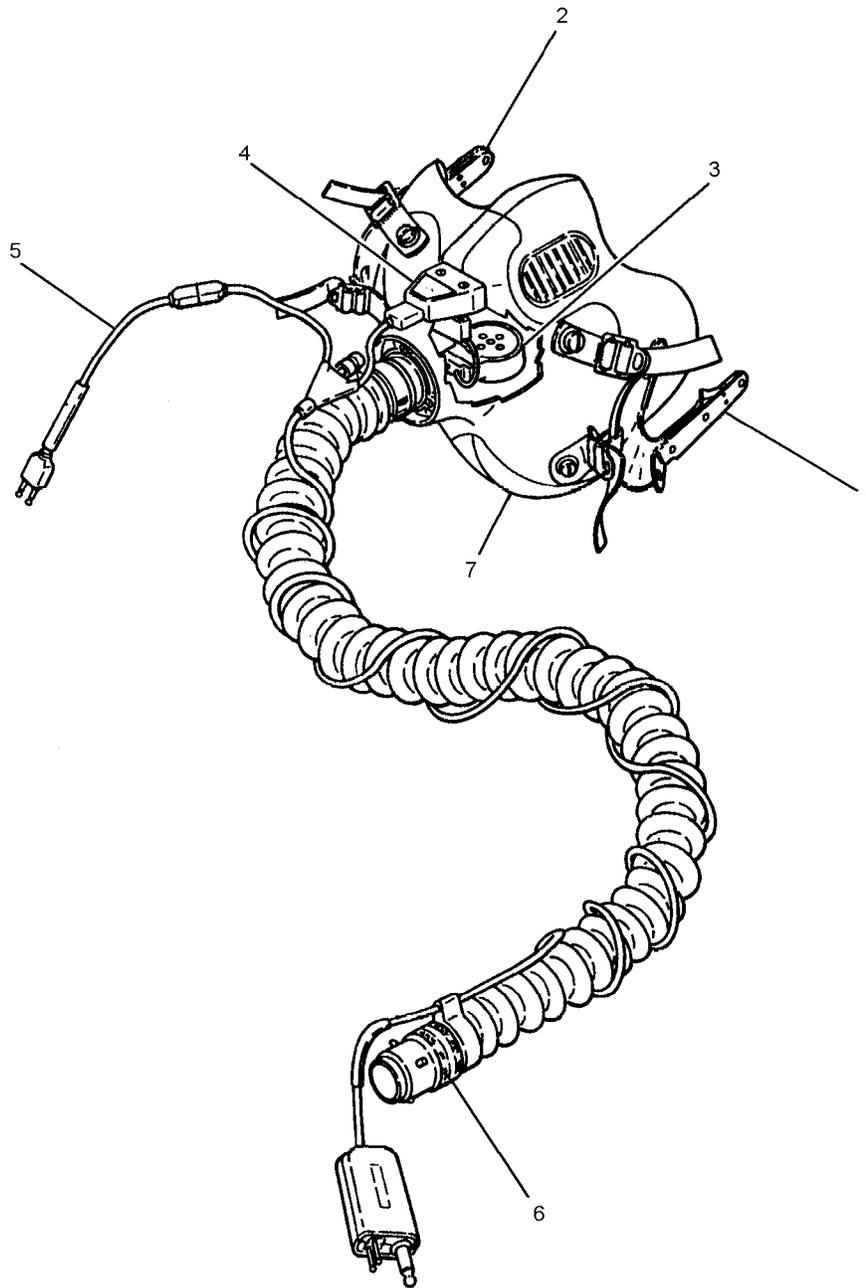


Figure 5-18. MBU-16/P Pressure Demand Oxygen Mask Assembly

NAVAIR 13-1-6.7-3

Figure and Index Number	Part Number	Description	Units Per Assembly	Usable On Code
		1 2 3 4 5 6 7		
5-18	No Number	MBU-16/P PRESSURE DEMAND OXYGEN MASK ASSEMBLY, Short	1	A
	No Number	MBU-16/P PRESSURE DEMAND OXYGEN MASK ASSEMBLY, Regular	1	B
	No Number	MBU-16/P PRESSURE DEMAND OXYGEN MASK ASSEMBLY, Long	1	C
	No Number	MBU-16/P PRESSURE DEMAND OXYGEN MASK ASSEMBLY, Extra-Long	1	D
-1	70280-10	. OFFSET BAYONET, Left (CAGE 21914)	1	
-2	70280-20	. OFFSET BAYONET, Right (CAGE 21914)	1	
-3	M-101/AIC	. MICROPHONE ASSEMBLY (CAGE 81349) (Note 1)	1	
-4	M23595/3-3 765AS287-1	. AM-7067/A AMPLIFIER ASSEMBLY, (CAGE 03487) (CAGE 30003) (Note 2)	1	
-5	M22442/26-3	. CX-13126A/A CABLE ASSEMBLY	1	
-6	MS27796	. CONNECTOR, Bayonet	1	
-7	834-75-01 G012-1050-01	. MBU-12/P PRESSURE DEMAND OXYGEN MASK SUBASSEMBLY, Short (CAGE 92114) (CAGE 60240) (See figure 5-22 for breakdown)	1	A
	834-75-02 G012-1050-02	. MBU-12/P PRESSURE DEMAND OXYGEN MASK SUBASSEMBLY, Regular (CAGE 92114) (CAGE 60240) (See figure 5-22 for breakdown)	1	B
	834-75-03 G012-1050-03	. MBU-12/P PRESSURE DEMAND OXYGEN MASK SUBASSEMBLY, Long (CAGE 92114) (CAGE 60240) (See figure 5-22 for breakdown)	1	C
	834-75-04 G012-1050-04	. MBU-12/P PRESSURE DEMAND OXYGEN MASK SUBASSEMBLY, Extra-Long (CAGE 92114) (CAGE 60240) (See figure 5-22 for breakdown)	1	D
Notes: 1. M-101/AIC microphone assembly replaces the M-94B/A microphone by attrition. 2. Amplifier assembly M23595/3-3 or 765AS287-1 replaces receptacle assembly which is part of MBU-12/P oxygen mask assembly.				

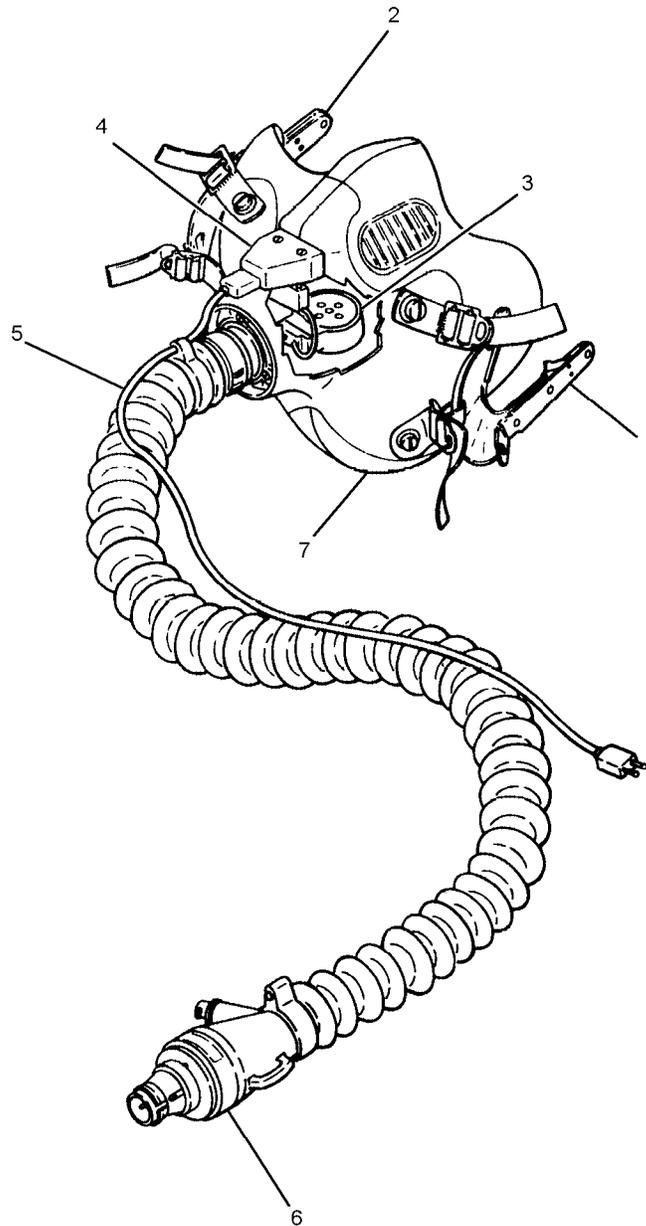


Figure 5-19. MBU-17(V)1/P Pressure Demand Oxygen Mask Assembly

NAVAIR 13-1-6.7-3

Figure and Index Number	Part Number	Description	Units Per Assembly	Usable On Code	
		1 2 3 4 5 6 7			
5-19	No Number	MBU-17(V)1/P PRESSURE DEMAND OXYGEN ... MASK ASSEMBLY, Short	1	A	
	No Number	MBU-17(V)1/P PRESSURE DEMAND OXYGEN ... MASK ASSEMBLY, Regular	1	B	
	No Number	MBU-17(V)1/P PRESSURE DEMAND OXYGEN ... MASK ASSEMBLY, Long	1	C	
	No Number	MBU-17(V)1/P PRESSURE DEMAND OXYGEN ... MASK ASSEMBLY, Extra-Long	1	D	
	-1	70280-10	. OFFSET BAYONET, Left (CAGE 21914)	1	
	-2	70280-20	. OFFSET BAYONET, Right (CAGE 21914)	1	
	-3	M-101/AIC	. MICROPHONE ASSEMBLY (CAGE 81349) (Note 1)	1	
	-4	M23595/3-3 765AS287-1	. AM-7067/A AMPLIFIER ASSEMBLY, (CAGE 03487) (CAGE 30003) (Note 2)	1	
	-5	765AS380-1	. CX-13154/A CABLE ASSEMBLY	1	
	-6	MS22016-1	. MC-3A CONNECTOR (CAGE 92114) Sierra P/N 224-01	1	
	-7	834-75-01 G012-1050-01	. MBU-12/P PRESSURE DEMAND OXYGEN MASK SUBASSEMBLY, Short (CAGE 92114) (CAGE 60240) (See figure 5-22 for breakdown)	1	A
		834-75-02 G012-1050-02	. MBU-12/P PRESSURE DEMAND OXYGEN MASK SUBASSEMBLY, Regular (CAGE 92114) (CAGE 60240) (See figure 5-22 for breakdown)	1	B
		834-75-03 G012-1050-03	. MBU-12/P PRESSURE DEMAND OXYGEN MASK SUBASSEMBLY, Long (CAGE 92114) (CAGE 60240) (See figure 5-22 for breakdown)	1	C
834-75-04 G012-1050-04		. MBU-12/P PRESSURE DEMAND OXYGEN MASK SUBASSEMBLY, Extra-Long (CAGE 92114) (CAGE 60240) (See figure 5-22 for breakdown)	1	D	
Notes:		1. M-101/AIC microphone assembly replaces the M-94B/A microphone by attrition. 2. Amplifier assembly M23595/3-3 or 765AS287-1 replaces receptacle assembly which is part of MBU-12/P oxygen mask assembly.			

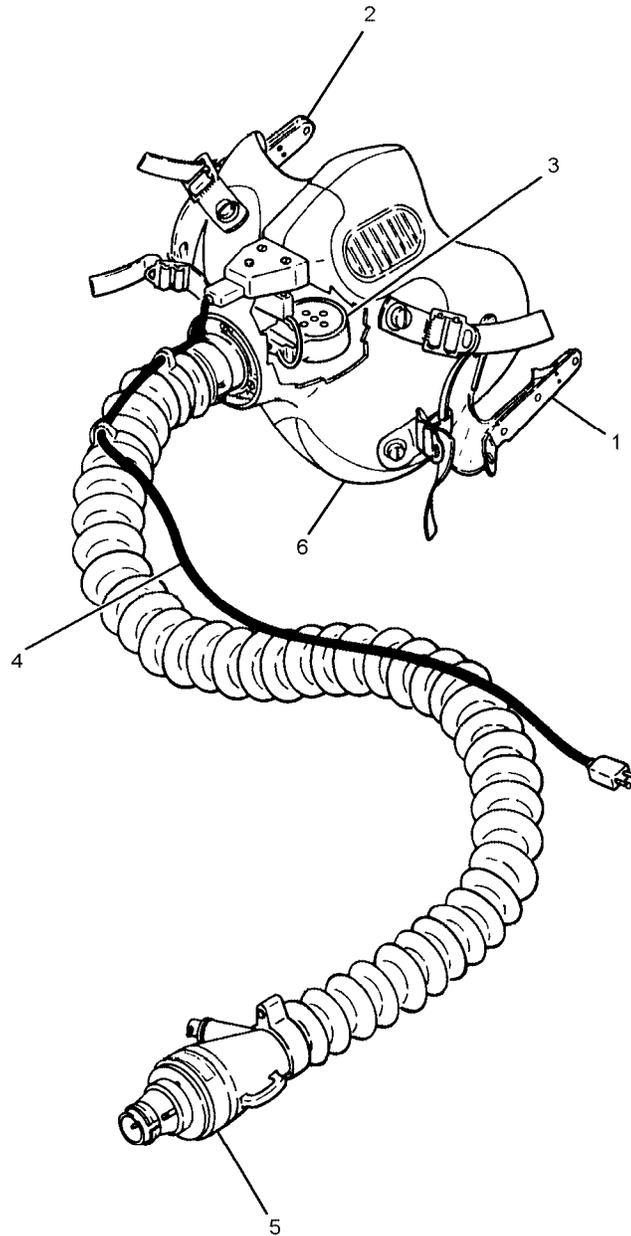


Figure 5-20. MBU-17(V)2/P Pressure Demand Oxygen Mask Assembly

NAVAIR 13-1-6.7-3

Figure and Index Number	Part Number	Description	Units Per Assembly	Usable On Code
		1 2 3 4 5 6 7		
5-20	No Number	MBU-17(V)2/P PRESSURE DEMAND	1	A
	No Number	MBU-17(V)2/P PRESSURE DEMAND OXYGEN ... MASK ASSEMBLY, Regular	1	B
	No Number	MBU-17(V)2/P PRESSURE DEMAND OXYGEN ... MASK ASSEMBLY, Long	1	C
	No Number	MBU-17(V)2/P PRESSURE DEMAND OXYGEN ... MASK ASSEMBLY, Extra-Long	1	D
-1	70280-10	. OFFSET BAYONET, Left (CAGE 21914)	1	
-2	70280-20	. OFFSET BAYONET, Right (CAGE 21914)	1	
-3	M-101/AIC	. MICROPHONE ASSEMBLY (CAGE 81349)	1	
		(Note 1)		
-4	57C12661-1	. CX-4434/U, 16-Inch cable assembly	1	
-5	MS22016-1	. MC-3A CONNECTOR (CAGE 92114)	1	
		(Sierra P/N 224-01)		
-6	834-75-01 G012-1050-01	. MBU-12/P PRESSURE DEMAND	1	A
		OXYGEN MASK SUBASSEMBLY, Short (CAGE 92114) (CAGE 60240) (See figure 5-22 for breakdown)		
	834-75-02 G012-1050-02	. MBU-12/P PRESSURE DEMAND	1	B
		OXYGEN MASK SUBASSEMBLY, Regular (CAGE 92114) (CAGE 60240) (See figure 5-22 for breakdown)		
	834-75-03 G012-1050-03	. MBU-12/P PRESSURE DEMAND	1	C
		OXYGEN MASK SUBASSEMBLY, Long (CAGE 92114) (CAGE 60240) (See figure 5-22 for breakdown)		
	834-75-04 G012-1050-04	. MBU-12/P PRESSURE DEMAND	1	D
		OXYGEN MASK SUBASSEMBLY, Extra-Long (CAGE 92114) (CAGE 60240) (See figure 5-22 for breakdown)		
Notes:		1. M-101/AIC microphone assembly replaces the M-94B/A microphone by attrition.		

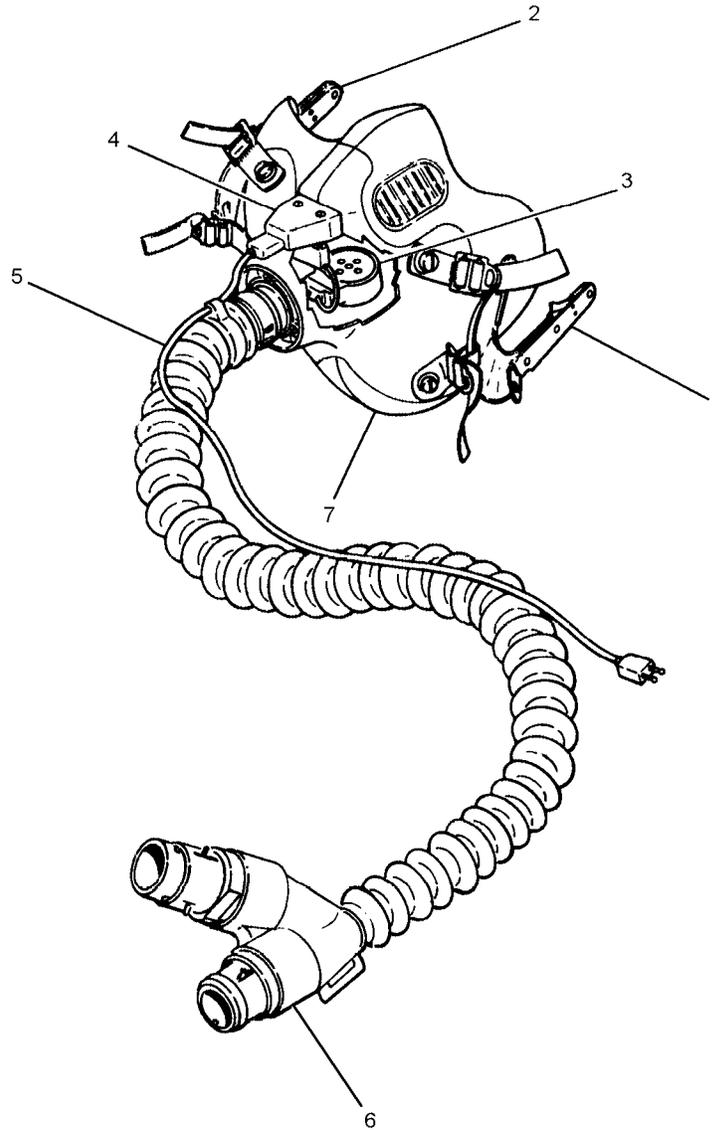


Figure 5-21. MBU-17(V)5/P Pressure Demand Oxygen Mask Assembly

NAVAIR 13-1-6.7-3

Figure and Index Number	Part Number	Description	Units Per Assembly	Usable On Code
		1 2 3 4 5 6 7		
5-21	No Number	MBU-17(V)5/P PRESSURE DEMAND OXYGEN ... MASK ASSEMBLY, Short	1	A
	No Number	MBU-17(V)5/P PRESSURE DEMAND OXYGEN ... MASK ASSEMBLY, Regular	1	B
	No Number	MBU-17(V)5/P PRESSURE DEMAND OXYGEN ... MASK ASSEMBLY, Long	1	C
	No Number	MBU-17(V)5/P PRESSURE DEMAND OXYGEN ... MASK ASSEMBLY, Extra-Long	1	D
-1	70280-10	. OFFSET BAYONET, Left (CAGE 21914)	1	
-2	70280-20	. OFFSET BAYONET, Right (CAGE 21914)	1	
-3	M-101/AIC	. MICROPHONE ASSEMBLY (CAGE 81349) (Note 1)	1	
-4	M23595/3-3 765AS287-1	. AM-7067/A AMPLIFIER ASSEMBLY, (CAGE 03487) (CAGE 30003) (Note 2)	1	
-5	765AS380-1	. CX-13154/A CABLE ASSEMBLY	1	
-6	123AB50534-5	. CRK-90 CONNECTOR (CAGE 30003)	1	
-7	834-75-01 G012-1050-01	. MBU-12/P PRESSURE DEMAND OXYGEN MASK SUBASSEMBLY, Short (CAGE 92114) (CAGE 60240) (See figure 5-22 for breakdown)	1	A
	834-75-02 G012-1050-02	. MBU-12/P PRESSURE DEMAND OXYGEN MASK SUBASSEMBLY, Regular (CAGE 92114) (CAGE 60240) (See figure 5-22 for breakdown)	1	B
	834-75-03 G012-1050-03	. MBU-12/P PRESSURE DEMAND OXYGEN MASK SUBASSEMBLY, Long (CAGE 92114) (CAGE 60240) (See figure 5-22 for breakdown)	1	C
	834-75-04 G012-1050-04	. MBU-12/P PRESSURE DEMAND OXYGEN MASK SUBASSEMBLY, Extra-Long (CAGE 92114) (CAGE 60240) (See figure 5-22 for breakdown)	1	D
Notes: 1. M-101/AIC microphone assembly replaces the M-94B/A microphone by attrition. 2. Amplifier assembly M23595/3-3 or 765AS287-1 replaces receptacle assembly which is part of MBU-12/P oxygen mask assembly.				

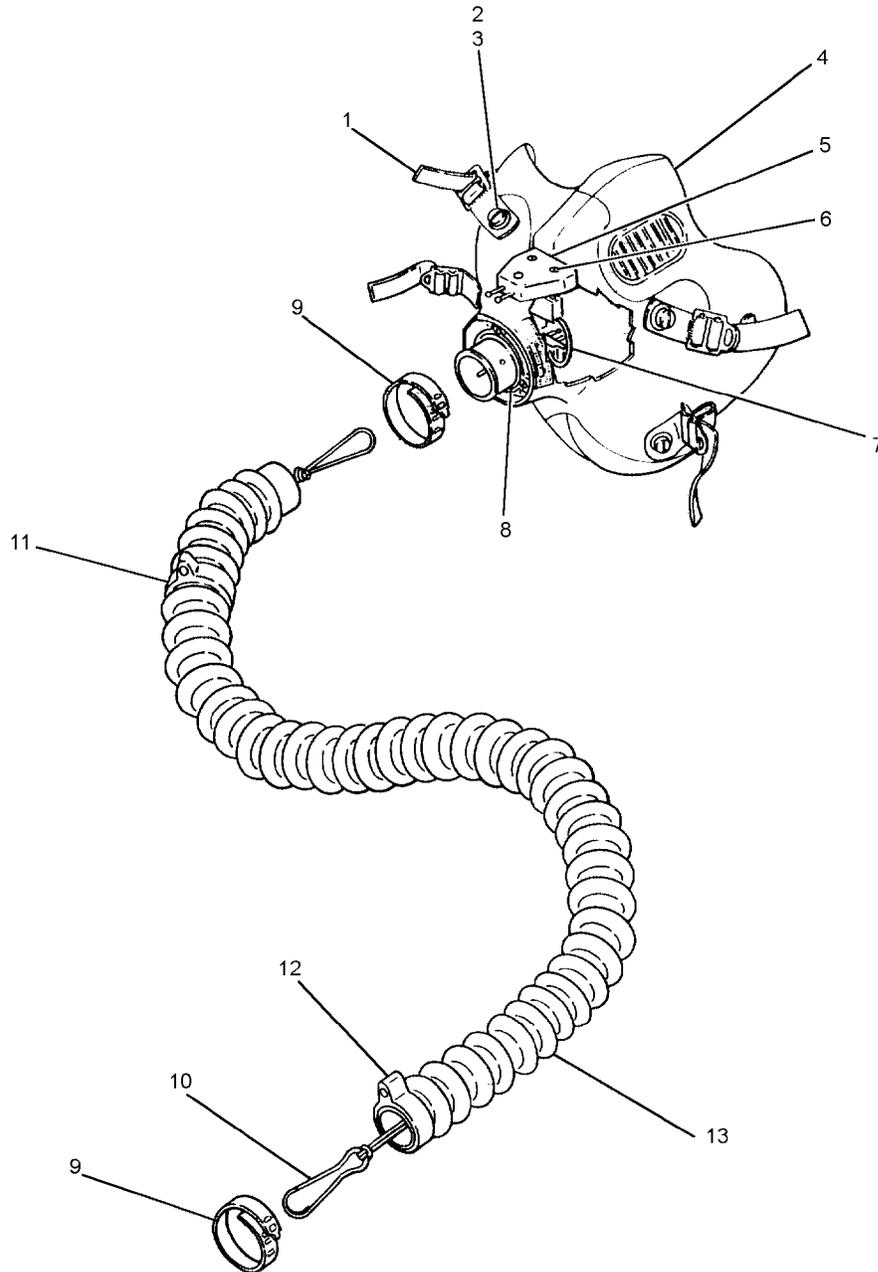


Figure 5-22. MBU-12/P Pressure Demand Oxygen Mask Assembly

NAVAIR 13-1-6.7-3

Figure and Index Number	Part Number	Description							Units Per Assembly	Usable On Code
		1	2	3	4	5	6	7		
5-22	834-75-1 G012-1050-01	.							REF	A
	834-75-2 G012-1050-02	.							REF	B
	834-75-3 G012-1050-03	.							REF	C
	834-75-4 G012-1050-04	.							REF	D
-1	834-11	.	.						4	
-2	AB2662V3N	.	.						1	
-3	834-12	.	.						1	
-4	834-25-1 G012-1028-01	.	.						1	A
	834-25-2 G012-1028-02	.	.						1	B
	834-25-3 G012-1028-03	.	.						1	C
	834-25-4 G012-1028-04	.	.						1	D
-5	834-37	.							1	
-6	00-5377	.							2	
-7	00-6268	.							1	
-8	211-60 G001-5030-01	.							1	
-9	450-134A G012-1033-01 MS22064-5 MS3367-1-0	.							2	
-10	339-06-1 G012-1046-01	.							1	
-11	249-425 G012-1034-01	.							1	
-12	450-13 G012-1035-01	.							1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
5-22-13	834-18 G012-1036-01	. TUBE, Delivery (CAGE 92114) (CAGE 60240)	1	
	Notes: 1. Hose clamp (P/N MS22064-5, NIIN 00-269-3760, multi-position, Tinnerman) or electrical tiedown strap (P/N MS3367-1-0, NIIN 00-384-6582), may be used as alternative replacement.			

NUMERICAL INDEX

Part Number	Figure and Index Number	SM&R Code	Part Number	Figure and Index Number	SM&R Code
AB2662V3N	5-22-2	PAOZZ	MS3367-1-0	5-22-9	PAOZZ
G001-5030-01	5-22-8	PAOZZ	M22442/26-3	5-16-5	PAOZZ
G012-1028-01	5-22-4	PAOZZ		5-18-5	PAOZZ
G012-1028-02	5-22-4	PAOZZ	M22442/42-1	5-17-5	PAOZZ
G012-1028-03	5-22-4	PAOZZ	M23595/3-3	5-16-4	PAOZZ
G012-1028-04	5-22-4	PAOZZ		5-17-4	PAOZZ
G012-1033-01	5-22-9	PAOZZ		5-18-4	PAOZZ
G012-1034-01	5-22-11	PAOZZ		5-19-4	PAOZZ
G012-1035-01	5-22-12	PAOZZ		5-21-4	PAOZZ
G012-1036-01	5-22-13	PAOZZ	00-5377	5-22-6	PAOZZ
G012-1046-01	5-22-10	PAOZZ	00-6268	5-22-7	PAOZZ
G012-1050-01	5-16-6	PAOZZ	123AB50534-5	5-21-6	PAOZZ
	5-17-7	PAOZZ	211-60	5-22-8	PAOZZ
	5-18-7	PAOZZ	249-425	5-22-11	PAOZZ
	5-19-7	PAOZZ	339-06-1	5-22-10	PAOZZ
	5-20-6	PAOZZ	450-13	5-22-12	PAOZZ
	5-21-7	PAOZZ	450-134A	5-22-9	PAOZZ
	5-22	PAOZZ	57C12661-1	5-20-4	PAOZZ
G012-1050-02	5-16-6	PAOZZ	70280-10	5-16-1	PAOZZ
	5-17-7	PAOZZ		5-17-1	PAOZZ
	5-18-7	PAOZZ		5-18-1	PAOZZ
	5-19-7	PAOZZ		5-19-1	PAOZZ
	5-20-6	PAOZZ		5-20-1	PAOZZ
	5-21-7	PAOZZ		5-21-1	PAOZZ
	5-22	PAOZZ	70280-20	5-16-2	PAOZZ
G012-1050-03	5-16-6	PAOZZ		5-17-2	PAOZZ
	5-17-7	PAOZZ		5-18-2	PAOZZ
	5-18-7	PAOZZ		5-19-2	PAOZZ
	5-19-7	PAOZZ		5-20-2	PAOZZ
	5-20-6	PAOZZ		5-21-2	PAOZZ
	5-21-7	PAOZZ	765AS287-1	5-16-4	PAOZZ
	5-22	PAOZZ		5-17-4	PAOZZ
G012-1050-04	5-16-6	PAOZZ		5-18-4	PAOZZ
	5-17-7	PAOZZ		5-19-4	PAOZZ
	5-18-7	PAOZZ		5-21-4	PAOZZ
	5-19-7	PAOZZ	765AS380-1	5-19-5	PAOZZ
	5-20-6	PAOZZ		5-21-5	PAOZZ
	5-21-7	PAOZZ	834-11	5-22-1	PAOZZ
	5-22	PAOZZ	834-12	5-22-3	PAOZZ
M-101/AIC	5-16-3	PAOZZ	834-18	5-22-13	PAOZZ
	5-17-3	PAOZZ	834-25-1	5-22-4	PAOZZ
	5-18-3	PAOZZ	834-25-2	5-22-4	PAOZZ
	5-19-3	PAOZZ	834-25-3	5-22-4	PAOZZ
	5-20-3	PAOZZ	834-25-4	5-22-4	PAOZZ
	5-21-3	PAOZZ	834-37	5-22-5	PAOZZ
MS22016-1	5-19-6	PAOZZ	834-75-01	5-16-6	PAOZZ
	5-20-5	PAOZZ		5-17-7	PAOZZ
MS22064-5	5-22-9	PAOZZ		5-18-7	PAOZZ
MS27796	5-17-6	PAOZZ		5-19-7	PAOZZ
	5-18-6	PAOZZ		5-20-6	PAOZZ

NUMERICAL INDEX

Part Number	Figure and Index Number	SM&R Code	Part Number	Figure and Index Number	SM&R Code
834-75-01	5-21-7	PAOZZ	834-75-03	5-19-7	PAOZZ
	5-22	PAOZZ		5-20-6	PAOZZ
834-75-02	5-16-6	PAOZZ		5-21-7	PAOZZ
	5-17-7	PAOZZ		5-22	PAOZZ
	5-18-7	PAOZZ	834-75-04	5-16-6	PAOZZ
	5-19-7	PAOZZ		5-17-7	PAOZZ
	5-20-6	PAOZZ		5-18-7	PAOZZ
	5-21-7	PAOZZ		5-19-7	PAOZZ
	5-22	PAOZZ		5-20-6	PAOZZ
834-75-03	5-16-6	PAOZZ	5-21-7	PAOZZ	
	5-17-7	PAOZZ	5-22	PAOZZ	
	5-18-7	PAOZZ			

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