CHAPTER 11

QUICK-DONNING OXYGEN MASK ASSEMBLY WITH ANTI-SMOKE GOGGLES P/N 358-1506V AND 358-1506V-1

Section 11-1. Description

11-1. GENERAL.

11-2. This chapter contains maintenance and test procedures for the Quick-Donning Oxygen Mask Assemblies part no. 358-1506V and 358-1506V-1 with Anti-Smoke Goggles part no. 322-70 (manufactured by Scott Aviation Co. CAGE 92114) (figure 11-1).

11-3. The Oxygen Mask Assembly consists of a hanging suspension holder, a suspension assembly, an oxygen mask assembly, a cable and plug assembly and a dust cover. The oxygen mask assembly and anti-smoke goggles are supplied in one size (regular).

11-4. CONFIGURATION.

11-5. The single configuration of the Quick-Donning Oxygen Mask Assembly consists of a hanging suspension holder which is mounted in the aircraft to facilitate stowage, a suspension assembly which incorporates a bracket assembly, cushions, straps, retention assemblies, and yoke assembly (the electrical switching mechanism is located in the yoke assembly), an oxygen mask assembly which is of a hard shell and molded rubber construction that incorporates the microphone, valve assembly, cord and snap assembly, connector, hose, cable guides, and clamps, and a cable and plug assembly. The mask assembly comes equipped with anti-smoke goggles.

11-6. FUNCTION.

11-7. The Quick-Donning Oxygen Mask Assembly permits the aircrewmember to breathe gaseous oxygen. Oxygen supply enters the facepiece through the valve located at the bottom of the mask. Exhaled air passes out through the same valve. The exhalation portion of the valve is constructed so that only a pressure of one millimeter of mercury greater than the inlet pressure being supplied by the regulator, will force open the valve and allow exhaled air to flow from the mask. The mask also provides automatic electrical switching from the headset microphone to the oxygen mask microphone. This feature permits the aircrewmember while wearing the mask to transmit the same as with the headset microphone, without the need to unplug the headset microphone and then plug in the oxygen mask microphone.

11-8. DONNING PROCEDURES.

11-9. The Oxygen Mask Assembly Quick-Donning feature permits extremely rapid removal from stowage and donning with one hand in the event of an emergency. Remove the mask assembly from the suspension holder by firmly grasping the mask assembly. With the hand placed around the yoke tab, pull down and away from the hanging suspension holder. Place the mask assembly over the head until the nape pad of the suspension assembly contacts the base of the skull (figure 11-2). Pull mask assembly forward and down, causing automatic unfolding of the suspension assembly, until it rests comfortably on the face (figure 11-2). Microphone switching is automatically accomplished when the mask is unfolded. Adjust suspension assembly in accordance with paragraph 11-10. After suspension assembly is properly adjusted, don the anti-smoke goggle (figure 11-2, sheet 2). To vent the goggle, pull vent valve as shown in figure 11-2, sheet 2.

11-10. SUSPENSION ASSEMBLY ADJUSTMENT.

11-11. To adjust the suspension assembly, proceed as follows:

1. If the suspension assembly is too loose, tighten top adjustment strap until proper fit is obtained.

2. If the suspension assembly is too tight, loosen top adjustment strap assembly until proper fit is obtained.

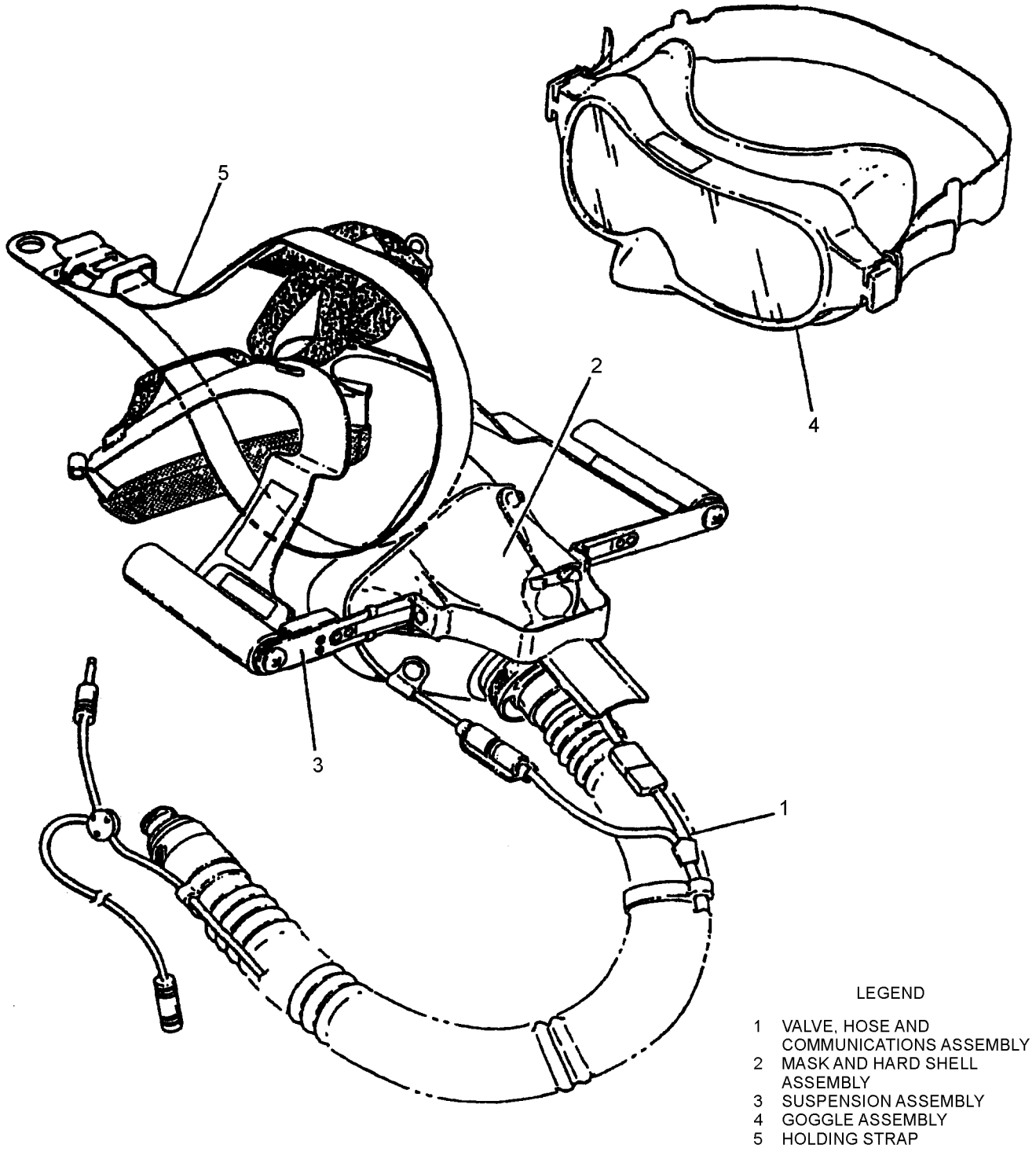

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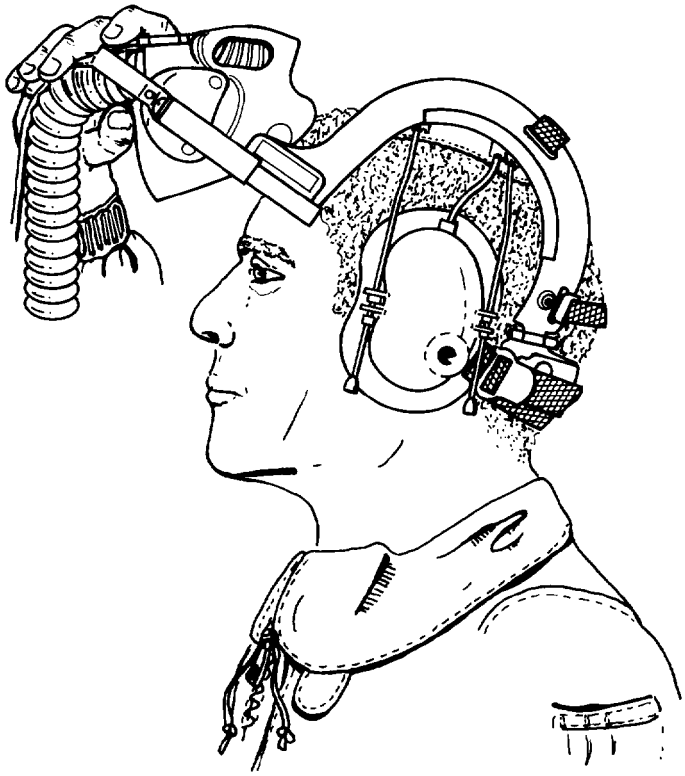
Figure 11-1. Folding, Quick-Donning Oxygen Mask and Goggle Assemblies



STEP 1. STARTING POSITION

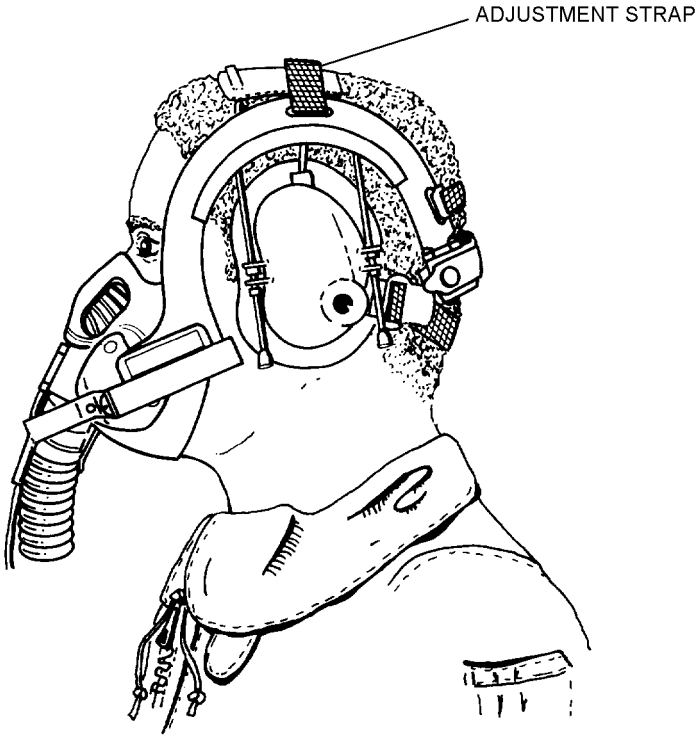


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Figure 11-2. Donning Procedure (Sheet 1 of 2)

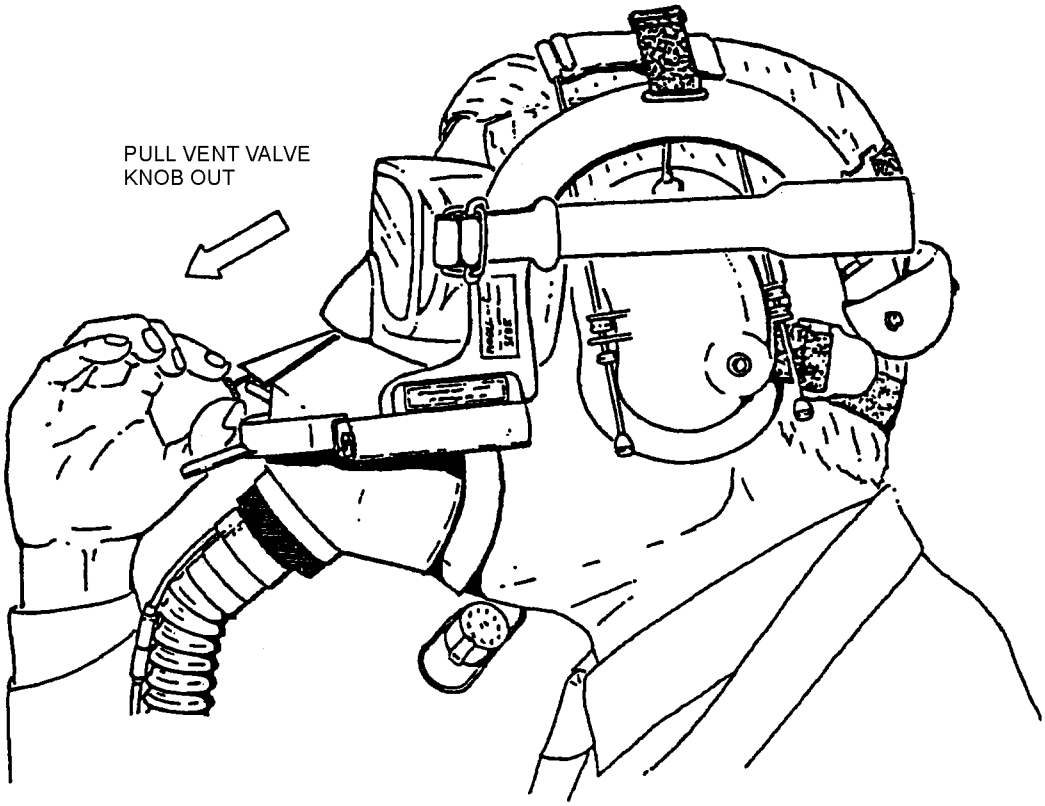

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Figure 11-2. Donning Procedure (Sheet 2)

11-12. SERVICE LIFE.

11-13. Service life for the Quick-Donning Oxygen Mask Assembly, as established by the cognizant engineering activity, is indefinite. The mask is considered serviceable if it meets periodic inspection requirements.

Section 11-2. Modifications

11-14. GENERAL.

11-15. No modifications are required or authorized for the Quick-Donning Oxygen Mask Assembly.

Section 11-3. Maintenance

11-16. GENERAL.

11-17. This section contains procedural steps for disassembly, cleaning, inspection, assembly, functional testing, sanitizing and stowage. All work shall be performed in a clean, dust-free area.

NOTE

Upon completion of any maintenance action (e.g., inspection, repair, modification, etc.) be sure to complete the required Maintenance Data Collection System Forms.

11-18. INSPECTION.

11-19. PREFLIGHT INSPECTION. The Preflight Inspection consists of a Visual Inspection and Functional Test performed before each flight by the aircrewmember by whom the mask is to be used. Perform the inspection as follows:

1. Examine mask and hose for deterioration, abrasion, cracks, cuts, and security of attachment of mask-to-hose.

2. Inspect bracket and pad assembly for dents, bends, corrosion, deterioration and fraying of adjustment strap, and other obvious damage.

3. Inspect headset and microphone for cracks, damaged wiring, corrosion, and other obvious damage.

4. Examine cleanliness of entire mask assembly.

5. Inspect goggle assembly for good condition.

NOTE

If malfunctions are found or suspected, return mask assembly to aviator's equipment branch for corrective action.

11-20. ACCEPTANCE/SPECIAL INSPECTION. The Acceptance/Special Inspection consists of a Visual Inspection followed by a Functional Test. This inspection and test shall be performed in conjunction with the aircraft inspection requirements for the aircraft in which the mask assembly is installed. To perform the inspection, proceed as follows:

1. Visually inspect the mask assembly in accordance with paragraph 11-22.

2. Functionally test the mask assembly in accordance with paragraph 11-24.

3. Sanitize the mask in accordance with paragraph 11-29.

11-21. CALENDAR/PHASE/SDLM INSPECTION. A Calendar/Phase/SDLM inspection shall be performed upon issue and in accordance with the Planned Maintenance System (PMS) of the aircraft (see PMS publications for specific interval). The Calendar/Phase/SDLM Inspection consists of the following:

1. Disassembly (paragraph 11-25).

2. Cleaning (paragraph 11-28).

3. Visual Inspection (paragraph 11-22).

4. Assembly (paragraph 11-30).

5. Functional Test (paragraph 11-24).

6. Sanitizing (paragraph 11-29).

7. Storage (paragraph 11-33).

11-22. VISUAL INSPECTION. To visually inspect the Quick-Donning Oxygen Mask Assembly, examine the following:

NOTE

Repair of the Quick-Donning Oxygen Mask Assembly shall be limited to parts replacement. Any hole or tear that occurs in any component is basis for rejection of that component.

1. Mask for deterioration; material imperfections embedded foreign matter; dirty, rough, misaligned, cracked, nicked or otherwise flawed surface; any component loose or not properly attached. Replace defective components or mask assembly.

2. Exhalation/inhalation valve for nicks, grooves, scratches, or any other damage affecting sealing action. If valve is defective, replace the valve.

3. Headstraps/suspension assembly for fraying, deterioration, or cuts. Hardware for corrosion or other damage. Replace defective components.

4. Delivery hose for deterioration, cuts, abrasion creased or flat spots. Replace defective hose.

5. Communications cable/microphone for electrical continuity and proper operation. Replace defective components.

6. Visually inspect the goggle frame and strap for tears or cuts and the lens for cracks or excessive scratches. Replace any defective components.

7. Apply anti-fog solution, NSN 6850-00-754-2672, to the inside of goggle lens.

11-23. TESTING.

11-24. FUNCTIONAL TEST. To test the mask after inspection, proceed as follows:

1. Plug inlet end of connector assembly by any suitable method.

2. Holding mask close to face, but not sealed to face, inhale deeply. Then press mask firmly to face, forming a tight seal, and exhale forcibly. If the exhalation valve is operating properly, the exhalation will be smooth with minimum resistance.

3. Affix mask assembly to face, adjusting straps for a snug, comfortable, leak-tight fit. With inlet end of hose assembly blocked, inhale sharply and deeply and hold inhalation (keep inhaling) as long as possible. If there is no leakage through mask hose, fittings, or exhalation valve, and as soon as all residual air in mask and hose has been inhaled, further inhalation will be impossible.

4. Obtain assistance from Avionics Branch to ensure proper continuity of communications leads.

11-25. DISASSEMBLY.

11-26. To disassemble the Quick-Donning Oxygen Mask Assembly, proceed as follows:

Support Equipment Required

Quantity	Description	Reference Number
1	Pliers, Hose Clamp	450-813
1	Elastrator	00-6297
1	Valve Wrench, Nut	358-185
1	Torque Wrench (30 to 150 in-lb)	25D150F or equivalent

CAUTION

All inspection and maintenance shall be performed in an area free from dirt, metal or plastic chips or other forms of contamination.

NOTE

Index numbers refer to figure 11-6 unless otherwise noted.

Disassemble the Quick-Donning Oxygen Mask Assembly only to the extent necessary to repair or clean the mask assembly.

1. Remove retainer clip (67) disconnect the microswitch cable (61) from the oxygen hose communication cable (8). This connection is located between the upper cable strain relief and the pull-the-dot fastener.

2. Disassemble the valve, hose and communication assembly (3) from the hardshell and facepiece subassembly (25) by pushing in and rotating the valve assembly (5) counterclockwise to disengage the bayonet pins from the valve housing.

3. Unsnap the pull-the-dot fastener located on the microswitch (61) from the hardshell and facepiece subassembly (25).

4. Hold suspension assembly (40) in both hands with thumbs pressing on the spring retainers. Depress spring retainers until they disengage the hardshell pivots (34). To release the hardshell and facepiece assembly, pull the yoke assembly (59) apart slightly.

5. Do not remove label (57) and nameplate (58) unless damaged or illegible.

6. Open strap retainers and remove rear strap assembly (52); unbuckle and remove top strap assembly (51); remove nape pad cover (50) and nape (49) from bracket (56).

NOTE

Screws (46) were installed with Loctite. Carefully remove screws to avoid damage to inner slides.

7. Extend retention assembly (41 or 42) and hold inner slide firmly while removing screws (46) and washers (47). Remove yoke (60) retention cover (44 or 45) and spacer (48).

8. Using wrench (358-185), remove retaining ring nut (27). Lift the hardshell and facepiece subassembly from the holding fixture and remove gasket (27), washer (29), ring (30), sleeve (31), and shield (32).

NOTE

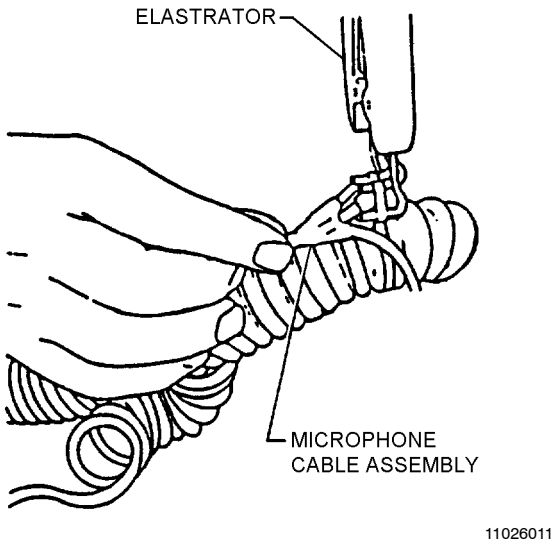
Vent valve must be in the open position before removal.

9. Remove vent valve rod from its inner sleeve by unscrewing the rod and pulling it out. Remove the vent valve and facepiece as a unit from the hardshell.

10. Disconnect the communication cable (8) from the cable and plug assembly (5) by pressing the red release pin on the U-179/U connector.

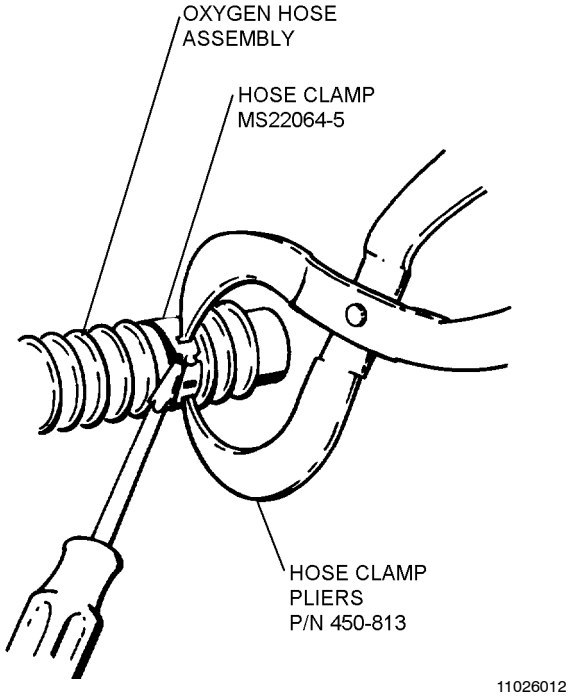
NOTE

If using valve adapter P/N G001-3001-01. There will only be one (18) and four (23) cable guides installed. See figure 11-6.



Step 11 - Para 11-26

11. Using elastrator, remove two cable guides (18) and five cable guides (23) from the oxygen hose (4) and communications cable (8). Gently pull down upper cable guide (18) to expose upper hose clamp or strap fastener as applicable.



Step 12 - Para 11-26

12. Using the hose clamp pliers, remove the two clamps (19). MAJCOM option strap fastener (NSN 5975-00-285-5742) or equivalent may be used in place of hose clamp. If strap fastener is to be installed, place strap end through locking block and take up slack. Position strap into place and snug down tight. Cut strap end flush with locking block. To remove strap fasteners, carefully cut the locking block with a common pair of wire cutters or dikes.

NOTE

If the snap hook was removed from the cord and snap assembly (22), remove cord by using a 3/32 inch punch drive to remove the roll pin from the disconnect fitting (6).

13. Unhook snap end of cord and snap assembly (22) from roll pin and remove oxygen valve microphone assembly and fitting (5) from the oxygen mask (4).

14. Loosen four screws (12) on the microphone retainer assembly (10) and remove the communication wires and microphone bracket assembly (9).

15. Remove the two screws (14) holding the microphone (13) to the bracket (9).

16. Remove the two screws (11) from the microphone retainer assembly (10) and remove the microphone retainer assembly from the oxygen valve (5).

NOTE

If valve adapter assembly P/N G001-3001-01 is used, refer to figure 11-7 when performing steps 17 thru 20.

17. Loosen three set screws (2) from valve adapter (1), must extend at least 1/16 inch out of adapter.

18. Unthread combination valve from valve adapter (1).

19. Remove O-ring (3) from valve adapter (1).

20. Loosen set screws (10), remove microphone assembly.

NOTE

To disassemble anti-smoke goggle assembly, steps 21 thru 23, refer to figure 11-8.

21. Remove the headstrap (4) from the buckle assemblies (3).

22. Remove the buckle assemblies from the frame (1).

23. Carefully remove the lens (2) from the frame (1).

NOTE

To disassemble and replace cable and plug assembly (12, figure 11-7), steps 24 thru 28, see figure 11-7.

24. Loosen set screws (10) and remove communication wires from left and right block brass (7, 8).

25. Remove screws (19) from body assy (1), and slide cable and plug assembly (12) from body assembly.

26. Remove O-ring (16), and plate assembly (18) from old plug assembly (12) and install on replacement cable and plug assembly (12).

27. Slide cable and plug assembly (12) through body assembly (1) and attach strain relief assembly (15) to cable (12), then install and tighten screws (19).

28. Connect wires from cable and plug assembly (12), black wire to left block brass (7), white wire to right block brass (8). Tighten set screws (10).

11-27. CLEANING AND SANITIZING.

11-28. CLEANING. Masks not on a personal issue basis shall be cleaned after each use and during the Calendar/Phase Inspection. To clean mask, proceed as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Benzalkonium Chloride Solution	MIL-B-37451
As Required	Cloth, Lint-Free, Type II	MIL-C-85043
As Required	Cotton Swabs	—
As Required	Detergent, General Purpose Type I	MIL-D-16791
	or	
As Required	Soap, Laundry Low-filter	P-S-600
As Required	Isopropyl Alcohol	TT-A-735A

Support Equipment Required

Quantity	Description	Reference Number
1	Brush, Soft Bristle	—

NOTE

The detergent solution is preferred since there is no risk of contamination due to undissolved soap powder residue.

1. DETERGENT SOLUTION. Make a 1-percent by weight solution of cleaning compound (Detergent, General Purpose) by adding 1/4 to 1/2 ounce (liquid) of the compound to one gallon of water.

NOTE

If it is necessary that the soap powder solution be used, agitate solution and use only the lather to clean the mask.

2. SOAP POWDER SOLUTION. Make a suitable soap solution by adding approximately 4 tablespoons of soap powder to one 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.

WARNING

Do not use alcohol in any form to clean masks. Do not use any flammable solvents or liquid toxicants for cleaning.

3. Using a soft bristle brush, apply cleaning solution to mask and oxygen hose. After application of cleaning solution to mask and delivery hose, submerge entire mask and delivery hose in cleaning solution and agitate thoroughly. Rinse in clean, potable cold water and shake off excess.

4. Clean all O-rings and rubber gaskets using same procedures in step 3.

5. To clean the inhalation/exhalation oxygen valve, proceed as follows:

CAUTION

The inhalation/exhalation valve must be removed from mask before cleaning. Isopropyl alcohol must not come in contact with the oxygen mask.

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

NOTE

If a 70% solution of isopropyl alcohol is not available, mix 3 parts water and 7 parts isopropyl alcohol.

b. Fill container half full with benzalkonium chloride solution or a 70% solution of isopropyl alcohol.

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 benzalkonium chloride solution or 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.

6. 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.

7. 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 reassembling mask.

NOTE

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

8. Clean anti-smoke goggle assembly with a soft lint-free cloth and mild soap solution.

9. Rinse goggles in clean, potable cold water and shake off excess.

11-29. SANITIZING. Masks not on a personal issue basis shall be sanitized after each use as follows:

Materials Required

Quantity	Description	Reference Number
As Required	Cloth, Lint-Free, Type II	MIL-C-85043
As Required	Pad, Gauze	—
As Required	Sanitizing Solution, Thimerosal	NIIN 00-128-5695
As Required	Spray SBT-12, Antiseptic, Aerosol	—

NOTE

One-quarter pint of Thimerosal, as issued, is sufficient to sanitize at least 10 masks.

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

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

NOTE

If Thimerosal is not available, an alternate sanitizer, Aerosol Antiseptic Spray SBT-12 (dibromosalicyl bromanicide), manufactured by Lever Brothers, Inc., can be used. Directions for use are indicated on the container.

3. After sanitizing, place dust cover over facepiece and attach suspension strap to bracket and pad assembly (figure 11-3). If mask assembly is not to be placed in immediate service, store in accordance with paragraph 11-33.

11-30. ASSEMBLY.

Support Equipment Required

Quantity	Description	Reference Number
1	Pliers, Hose Clamp	450-813
1	Elastrator	00-6297
1	Valve Wrench, Nut	358-185
1	Torque Wrench (30 to 150 in-lb)	25D150F or equivalent

11-31. ANTI-SMOKE GOGGLE ASSEMBLY. To assemble the anti-smoke goggle assembly, proceed as follows:

NOTE

Index numbers refer to figure 11-6.

1. Install lens (2) into frame (1) ensuring tongues of lens (2) are seated into the grooves of frame (1).

2. Install two buckle assemblies (3) onto frame (1).

3. Connect headstrap (4) onto two buckle assemblies (3).

11-32. QUICK-DONNING OXYGEN MASK ASSEMBLY.

NOTE

Index numbers refer to figure 11-6 unless otherwise noted.

1. Assemble the suspension assembly (40) starting with microswitch cable (61), then the left retention assembly (41) and the right retention assembly (42) as follows:

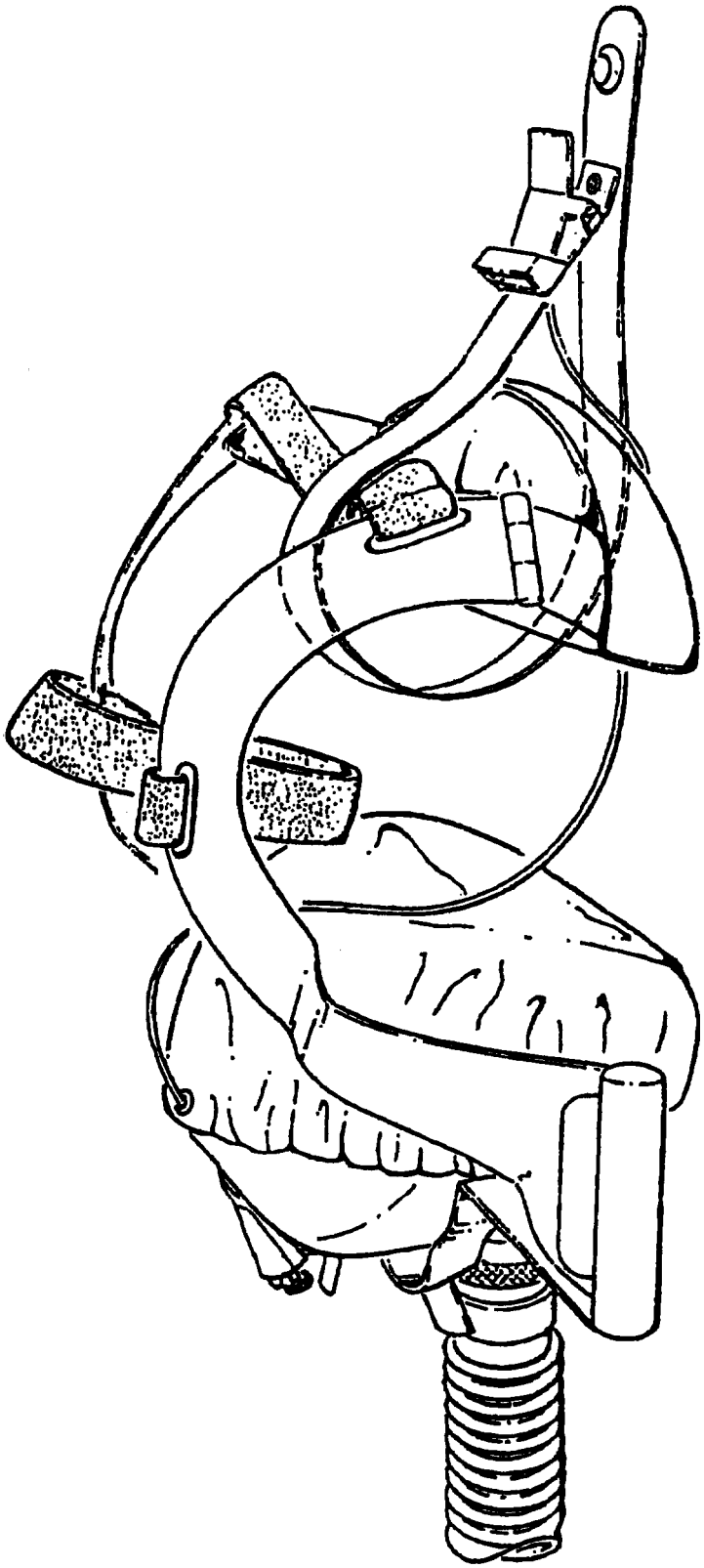


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Figure 11-3. Folding, Quick-Donning Oxygen Mask in Holder Assembly

a. Attach microswitch cable (61) to yoke (60) with screws (62) and nuts (63) through insulator (69), actuator spring (65) and switch housing (64). Secure cable in cable retainer clip (66). Apply one drop of Loctite or RTV adhesive to nuts.

NOTE

If required, attach retention assemblies (41, 42) to suspension brackets (54, 55) using screws (43).

b. Install retention spacer (48) and left retention assembly (41) into left retention cover (44).

c. Repeat step 2 for right retention assembly (42) using right retention cover (45).

d. Coat threads of screws (46) with Loctite or RTV adhesive and attach yoke (60) to retention assemblies (41, 42) with screws (46) and washer (47).

e. Install nape pad (49) and nape pad cover (50) on nape bracket (56).

f. (Optional) Attach top strap assembly (51) by placing ends through slots provided in suspension brackets (54, 55). Buckle securely. (MAJCOM Option.) Fold strap end over 3/4 inch and tack at both corners. Tack with double waxed thread, type IVB, ticket 8 to 4 or equal. Make two turns through the strap and secure the tackings with a surgeon's knot.

g. Attach rear strap assembly (52) by placing ends through slots provided in suspension brackets (54, 55) and closing strap retainer.

2. Assemble the hardshell/facepiece subassembly as follows:

a. Place facepiece (26) into hardshell assembly (33).

b. Install washer (29), gasket (28) and retaining ring nut (27) from the facepiece side.

c. Install locking shield (32), compression sleeve (31), and bayonet ring (30) from hardshell side. From the facepiece side, screw the remaining ring nut (27) onto the bayonet ring (30) until hand tight.

d. Place the hardshell/facepiece subassembly (25) into the holding fixture (358-184).

e. Using the torque wrench (358-186) extension and a suitable torque wrench, torque retaining ring nut (27) to 75 ± 10 inch-pounds.

NOTE

Do not remove facepiece from vent valve stem unless replacement is necessary. These parts are sealed at the manufacture with RTV adhesive.

f. Install vent valve body and facepiece as a unit into hardshell by inserting the vent valve body (39) into the slot on hardshell.

g. Lubricate vent valve rod using KRYTOX 240AC, MIL-G-27167, Type III or BRAYCOTE NSN 9150-00-961-8995, then install vent valve rod by inserting rod into inner sleeve on valve stem and screw hand tight.

3. Assemble the microphone onto the oxygen valve as follows:

a. Insert communication wires into the two center holes of microphone retainer assembly (10). Tighten the two center screws (12), to retain wires.

b. Install nameplate (24) using screw (21). Install microphone retainer assembly (10) using two screws (11). Install microphone (13) onto microphone bracket (9) using two screws (14). If valve adapter assembly part no. G001-3002-01 is used, proceed to steps c through i below.

NOTE

If valve adapter assembly (1, figure 11-7) is used, proceed as follows using figure 11-7.

c. Ensure three set screws (2) are backed out of valve adapter (1) at least 1/16 inch.

d. If not already accomplished, remove o-ring (3) from valve adapter (1).

e. Apply a light film of krytox, MIL-6-27617 (or suitable substitute), to o-ring (3) and reinstall into valve adapter (1).

f. Thread combination valve into valve adapter (1).

g. Tighten three set screws (2) to lock combination valve into valve adapter (1).

h. Reinstall microphone blocks (7, 8).

i. Tighten set screws (10).

4. Assemble the Valve, Hose and Communication Assembly as follows:

NOTE

Locally manufacture nylon attachment hook out of steel wire 1/16 inch in diameter for attaching nylon cord to oxygen valve (figure 11-4).

a. Attach cord end (22) of cord and snap assembly to the roll pin of valve assembly. Install upper cable guide (18) attached to U-179/U connector to oxygen hose using elastrator. Thread other end of cord and snap assembly through the oxygen hose (4) and slip oxygen hose over valve base.

NOTE

The maximum length of the anti-stretch cord is 23 1/2 inches and the minimum length 14 1/2 inches. Measure the nylon anti-stretch cord from the bottom end of the oxygen valve to the exposed end of the connector assembly. Cut off unused cord after tying knot.

Mask end of oxygen hose should slip over valve.

b. Using pliers, install clamp (19) over oxygen hose and valve.

(1) MAJCOM Option: Strap fastener (NSN 9575-00-285-5742) or equivalent may be used in place of hose clamp. If strap fastener is to be installed, place strap end through locking block and take up slack. Position strap into place and snug down tight. Cut strap end flush with locking block.

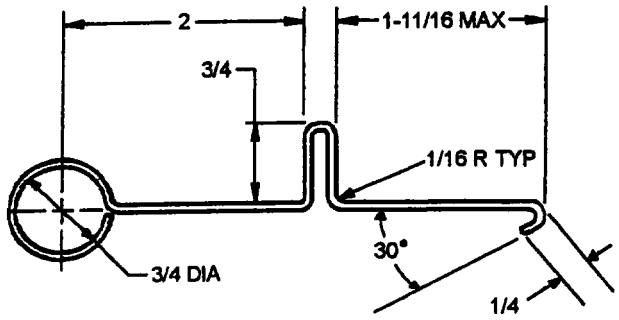

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Figure 11-4. Nylon Cord Attachment Hook

(2) MAJCOM Option: An installing tool (NSN 5120-00-781-7891) may be used to tighten and cut the excess strap. When using the installing tool set in the standard setting number to 8 and torque the strap down tight.

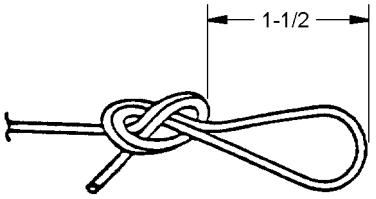
c. Attach the snap end of cord and snap assembly (22) to the roll pin of the disconnect fitting (7). Slip other end of oxygen hose (4) over disconnect fitting (7).

NOTE

OPTION: If oxygen hoses are being damaged by the snap portion of the snap and cord assembly (22), units are authorized to remove the snap and attach the cord directly to the roll pin of the disconnect fitting (7) using the following procedures.

(1) Remove snap from cord and snap assembly (22).

(2) Take nylon cord, form 1 1/2 inch loop and secure with bowline knot.



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Step 4.c.(2) - Para 11-32

(3) Form a half-hitch and attach cord (22) to disconnect fitting (7) in the same manner shown in figure 11-5.

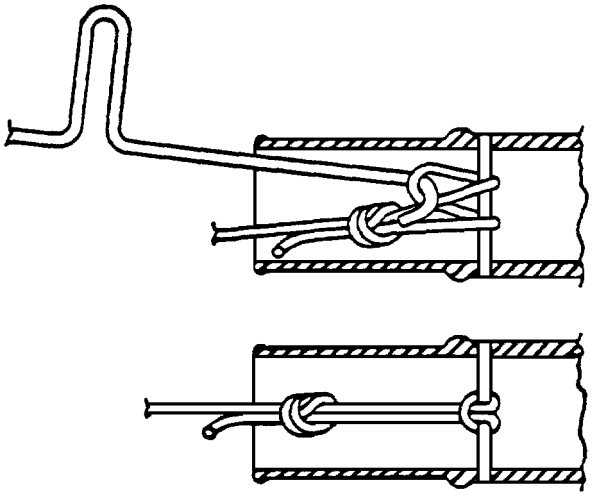

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Figure 11-5. Attachment of Cord Assembly Without Snap

d. Using pliers, install clamp (19) over oxygen hose and quick disconnect fitting.

NOTE

Refer to step 4.b.(1) and 4.b.(2) above for substitution of a strap and usage of an installing tool.

To prevent damage to the plug and cable assembly (12, figure 11-7) when using valve adapter P/N G001-1300-01. Do not install cable guides (18, 23, figure 11-6) over plug and cable assembly (12, figure 11-7).

e. Place two (2) additional cable guides, P/N 249-425 on the mask hose, one to be placed above the female connector, U-179A/U on the valve communication cord and another cable guide on the U-179/U just above the Y on the hose communication cord, to prevent the breakage of the communication cord.

f. Using elastrator, install cable guides (18, 23) over communications cable (8) and install cable guides with communications cable on oxygen hose (4).

5. Assemble the remaining components as follows:

a. Install suspension assembly (40) onto hardshell/facepiece subassembly (25). Snap the "pull-the-dot" fastener of microswitch cable assembly (61) to the hardshell.

b. Install the valve, hose and communication assembly (3) onto the bayonet receiver of the hardshell/facepiece subassembly (25). Connect the oxygen valve cable and plug assembly (5) and oxygen communication cord (8) together. Connect oxygen hose communication cable (8) and the microswitch cable (61) together. After connecting the oxygen hose communication cable (8) and microswitch cable (61) together, attach the retainer clip (67) to ensure positive connection and security.

c. Install the strain relief assembly, lower (68) as shown in figure 11-9.

11-33. STORAGE.

11-34. Masks not used on a personal-issue basis are to be sanitized before storage. Place the mask assembly in a plastic bag or any other suitable container that will keep the mask clean, dry, and lint-free. Stored masks must have ample ventilation and not be exposed to excessive heat or direct sunlight. The masks are not to be stored in an area where other flight gear will be stored on top of them.

Section 11-4. Illustrated Parts Breakdown

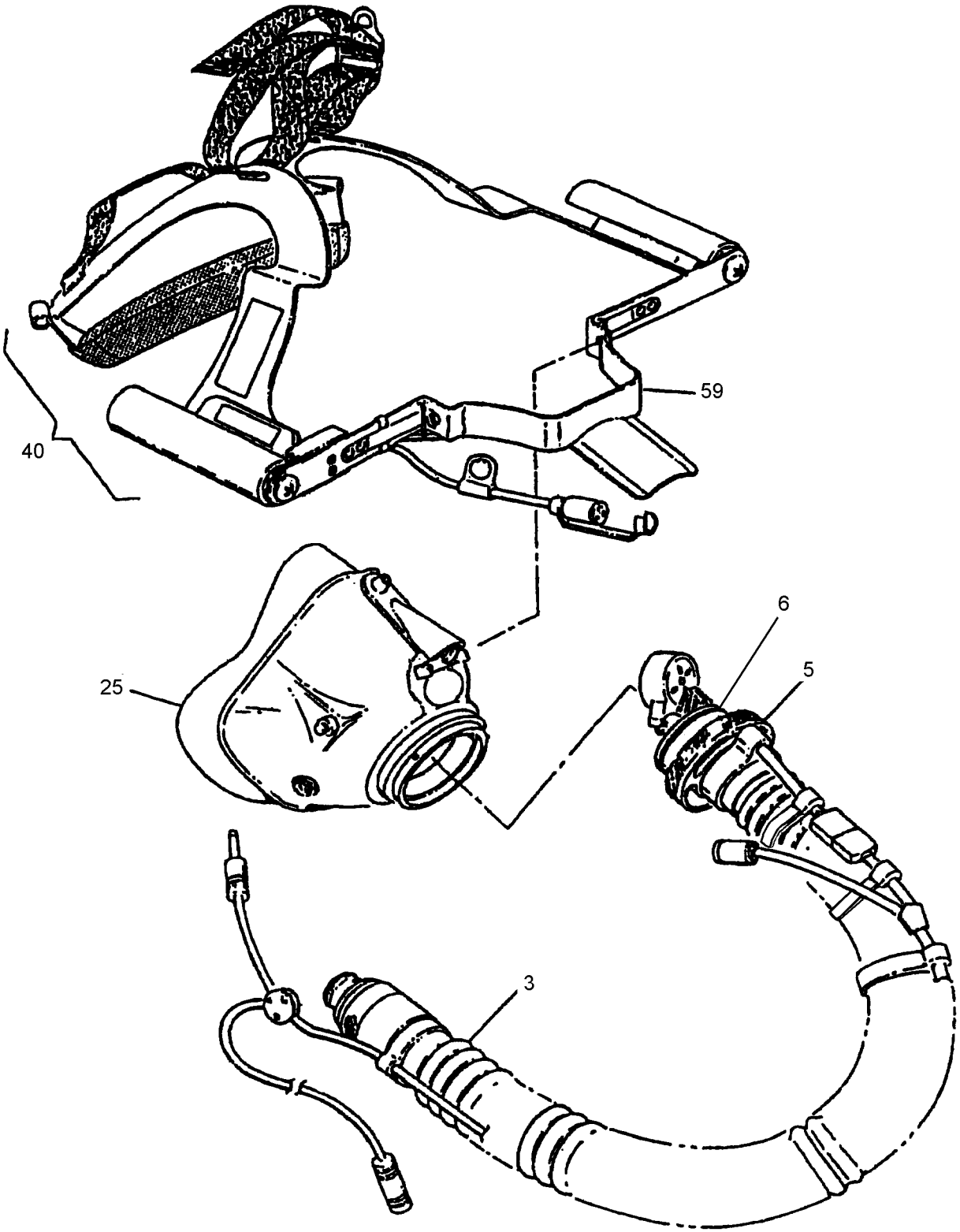
11-35. GENERAL.

11-36. This Section lists and illustrates the procurable parts of the Quick-Donning Oxygen Mask Assembly, Type MBU-10/P.

11-37. The Illustrated Parts Breakdown should be used during maintenance when requisitioning and identifying parts.

11-38. USABLE ON CODES.

Usable On	Code
358-1506V	A
358-1506V-1	B



01100601

Figure 11-6. Folding, Quick-Donning Mask Assembly, Exploded View (Sheet 1 of 2)

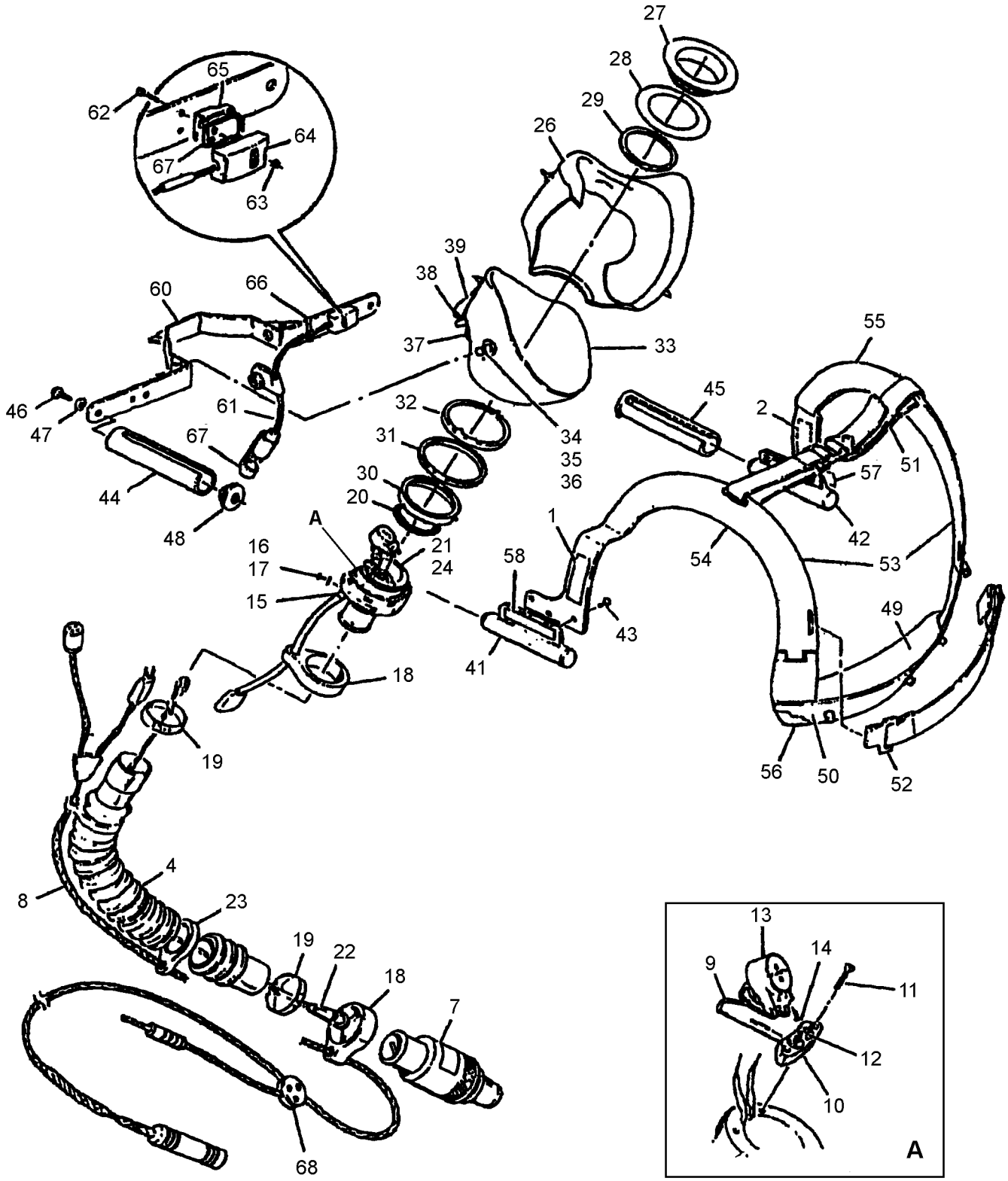


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Figure 11-6. Folding, Quick-Donning Mask Assembly, Exploded View (Sheet 2)

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
11-6	358-1506V	MASK ASSY, Folding, Quick-Donning Oxygen (92114)	REF	A
	358-1506V-1	MASK ASSY, Folding, Quick-Donning Oxygen (92114)	REF	B
-1	358-1459	. NAMEPLATE (92114)	1	A
-2	358-1059	. NAMEPLATE (92114)	1	B
-3	232-1110	. VALVE, Hose and Communication Assy (92114)	1	
-4	834-18 or G012-1036-01	. . HOSE (92114)	1	
-5	232-1823* G001-3018-01	. . VALVE, Cable and Plug Assy (92114)	1	
-6	G001-3001-01	. ADAPTER ASSY (60240) (See figure 11-7 for Breakdown)	1	
-7	232-94A G002-1060-01	. . FITTING, Disconnect and Connect (92114)	1	
-8	358-1358 G030-1055-01	. . COMMUNICATIONS CABLE (92114)	1	
-9	232-1309	. . BRACKET (92114)	1	
-10	232-1292*	. . RETAINER ASSY, Microphone (92114)	1	
-11	00-2234*	. . . SCREW (AP) (92114)	2	
-12	MS16995-2* or G012-9002-01	. . . SCREW, Allen (96906)	4	
-13	00-1587 09168P-33	. . MICROPHONE, M101/A1C (92114)	1	
-14	AN500D2-5 2089288-2302	. . SCREW (AP) (88044)	2	
-15	00-1081*	. . LUG, Terminal (92114)	1	
-16	00-66*	. . SCREW (AP) (92114)	1	
-17	MS35333-35* or G012-1035-01	. . WASHER (AP) (96906)	1	
-18	00-639	. . GUIDE, Cable (92114)	2	
-19	450-134A or G012-1033-01	. . CLAMP, Cable (92114)	2	
-20	GW9729	. . O-RING (60240)	1	
-21	00-668*	. . SCREW (92114)	1	
-22	339-16 or G012-1046-01	. . CORD AND SNAP ASSY (92114)	1	
-23	249-425 or G012-1034-01	. . GUIDE, Cable (92114)	5	
-24	232-115*	. . NAMEPLATE (92114)	1	
-25	358-1223-3	. HARDSHELL AND FACEPIECE SUBASSEMBLY (92114)	1	A
	358-1223-5	. HARDSHELL AND FACEPIECE SUBASSEMBLY (92114)	1	B
-26	358-1227	. . FACEPIECE (92114)	1	
-27	358-15	. . NUT, Retaining Ring (92114)	1	
-28	358-14	. . GASKET (92114)	1	
-29	358-174	. . WASHER (92114)	1	
-30	232-203	. . RING, Bayonet (92114)	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
11-6-31	232-202	. . SLEEVE, Compression (92114)	1	
-32	358-13	. . SHIELD, Locating (92114)	1	
-33	358-1224-3	. . HARDSHELL ASSY (92114)	1	
-34	358-637	. . . PIVOT (92114)	2	
-35	00-3244	. . . SCREW (AP) (92114)	2	
-36	AN960KD6	. . . WASHER (AP) (92114)	2	
-37	358-1228-3	. . NAMEPLATE (92114)	1	
-38	358-1231	. . ROD SUBASSEMBLY (92114)	1	
-39	358-1232-1	. . BODY, Vent Valve (92114)	1	
-40	358-1255-1	. SUSPENSION ASSY (92114)	1	
-41	358-613-3	. . RETENTION ASSY, Left Hand (92114)	1	
-42	358-613-4	. . RETENTION ASSY, Right Hand (92114)	1	
-43	00-5493	. . SCREW (AP) (92114)	6	
-44	358-1313	. . COVER, Retention, Left (92114)	1	
-45	358-1314	. . COVER, Retention, Right (96906)	1	
-46	AN526C1032R6	. . SCREW (96906)	2	
-47	MS35333-39	. . WASHER, Locking (96906)	2	
-48	358-1315	. . SPACER, Retention (92114)	2	
-49	358-636	. . PAD, Nape (92114)	1	
-50	358-1074	. . COVER, Nape Pad (92114)	1	
-51	358-1013	. . STRAP ASSY, Top (92114)	1	
-52	358-1015	. . STRAP ASSY, Rear (92114)	1	
-53	358-1017-2	. . BRACKET ASSY (92114)	1	
-54	358-1018-3	. . . BRACKET, Suspension, Left Hand (Not procurable separately, order NHA) (92114)	1	
-55	358-1018-4	. . . BRACKET, Suspension, Right Hand (Not procurable separately, order NHA) (92114)	1	
-56	358-1016	. . . BRACKET, Nape (Not procurable separately, order NHA) (92114)	1	
-57	358-1460	. . LABEL, Date Stamp (92114)	1	
-58	358-1257	. . NAMEPLATE, Left Side (92114)	1	
-59	358-1256-1	. . YOKE AND COMMUNICATION ASSY (92114)	1	
-60	358-1256-2	. . . YOKE (92114)	1	
-61	358-1355-3	. . . MICROSWITCH, Cable (92114)	1	
-62	MS35190-214	. . . . SCREW (AP) (96906)	2	
-63	MS35649-222	. . . . NUT (AP) (96906)	2	
-64	358-1309	. . . . HOUSING, Switch (92114)	1	
-65	358-1317	. . . . SPRING, Actuator (92114)	1	
-66	358-1316	. . . . CLIP, Cable Retainer (92114)	1	
-67	358-1362	. . . . RETAINER, Micro-switch Connector Plug (92114)	1	
-68	358-1352	. . STRAIN RELIEF ASSEMBLY, Lower (See figure 11-9 for parts breakdown) (92114)	1	
-69	00-4894-3	. . INSULATOR (72114)	1	

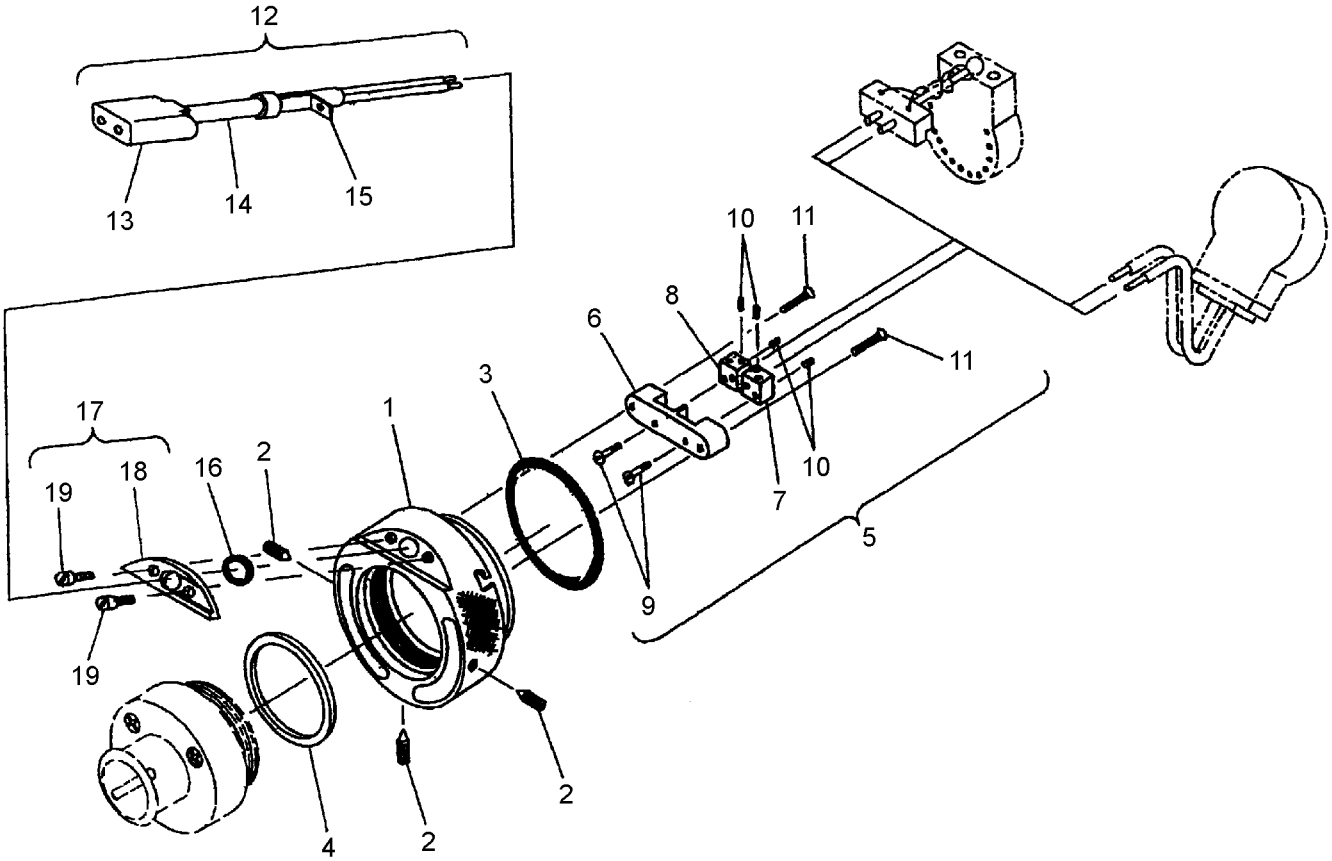

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Figure 11-7. Adapter Assembly, Exploded View

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
11-7	G001-3001-01	ADAPTER ASSY, Valve Quick-Donning . . . . . Oxygen Mask (60240)	REF	
	G001-5030-01	VALVE ASSY, MBU-12/P Combination . . . . . (60240)	REF	
	211-60	VALVE ASSY, MBU-12/P Combination . . . . . (92114)	REF	
	G012-9002-01	MICROPHONE, Type M101/A1C (60240)	REF	
	GW9658	MICROPHONE, Type M169/A1C (60240)	REF	
-1	G001-3002-01	. BODY ASSY, Adapter Valve (60240)	1	
-2	GW-9680	. SCREW SET, Slotted Head 3 PLCS (60240)	3	
-3	GW9729	. O-RING (60240)	1	
-4	G001-3007-01	. GASKET SILICONE, Valve Sealing . . . . . (60240)	1	
-5	G001-3014-01	. BRACKET ASSY, Microphone (60240)	1	
-6	G001-3004-01	. . BRACKET, Plastic (60240)	1	
-7	G001-3006-01	. . BLOCK BRASS, LH (60240)	1	
-8	G001-3006-02	. . BLOCK BRASS, RH (60240)	1	
-9	GW-9682	. . SCREW SLOTTED, Pan Headed . . . . . (60240)	2	
-10	GW-9678	. . SCREW SET, Slotted (60240)	4	
-11	GW-9679	. . SCREW SLOTTED, Flat Headed . . . . . (60240)	2	
-12	G001-3015-01	. CABLE AND PLUG ASSY (60240)	1	
-13	G012-9005	. . PLUG ASSY, U-179A/U (60240)	1	
-14	G001-3009-01	. . WIRE LEAD ASSY, Vinyl Covered . . . . . (60240)	1	
-15	GW-9683	. . STRAIN RELIEF ASSY, Clamp (60240)	1	
-16	GW-9660	. . O-RING, Sealing Communications . . . . . (60240)	1	
-17	G001-3016-01	. PLATE ASSY, Communications (60240)	1	
-18	G001-3003-01	. PLATE, Sealing Communications (60240)	1	
-19	AN500D2-3	. . SCREW, Fillister Headed (60240)	2	

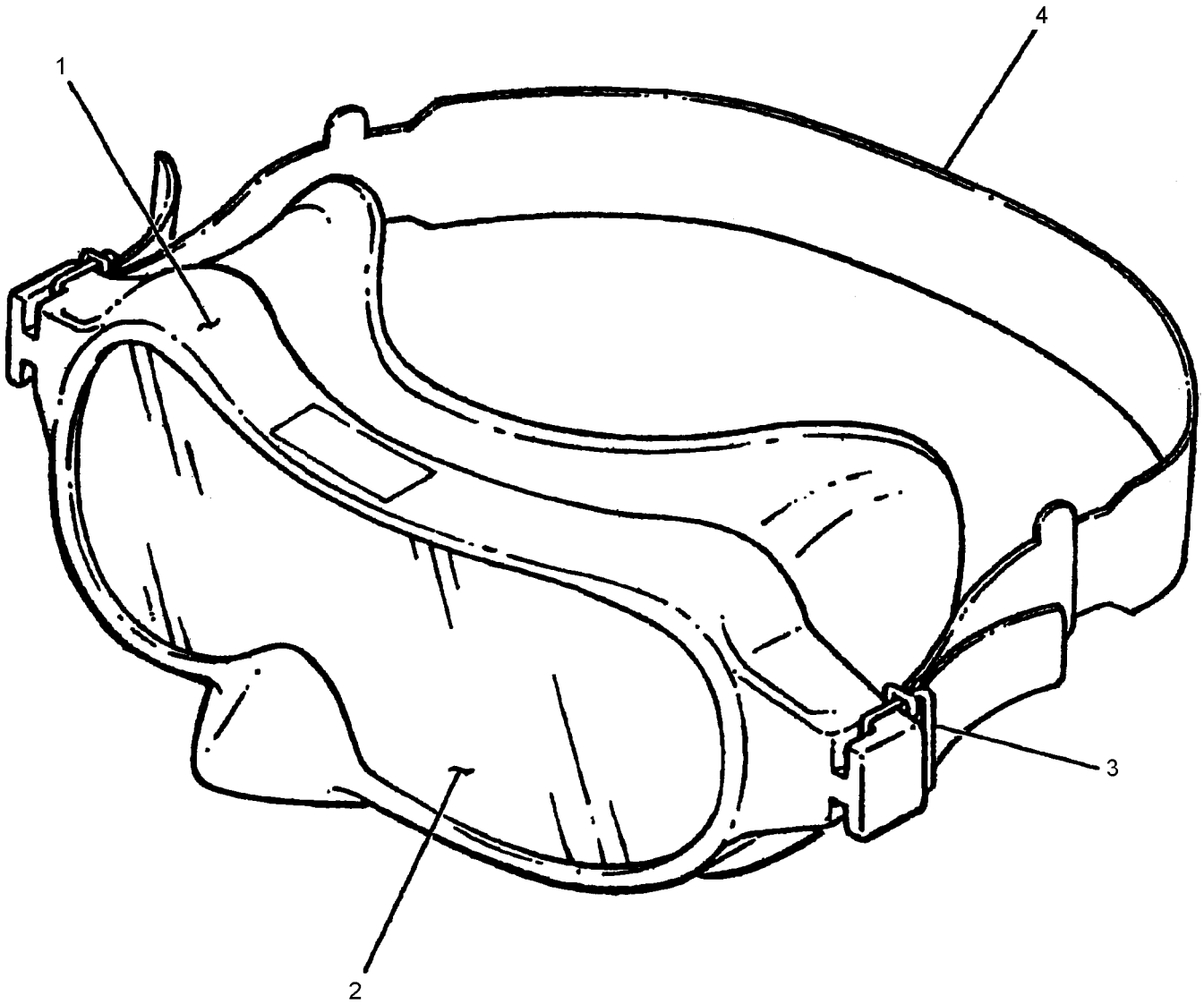

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Figure 11-8. Anti-Smoke Goggle Assembly

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
11-8	322-70	GOGGLE ASSY, Anti-Smoke (92114)	REF	
-1	322-71	. FRAME, Lens, Goggle (92114)	1	
-2	322-72	. LENS, Anti-Smoke, Goggle (92114)	1	
-3	322-74	. BUCKLE ASSY (92114)	2	
-4	322-73	. HEADSTRAP (92114)	1	

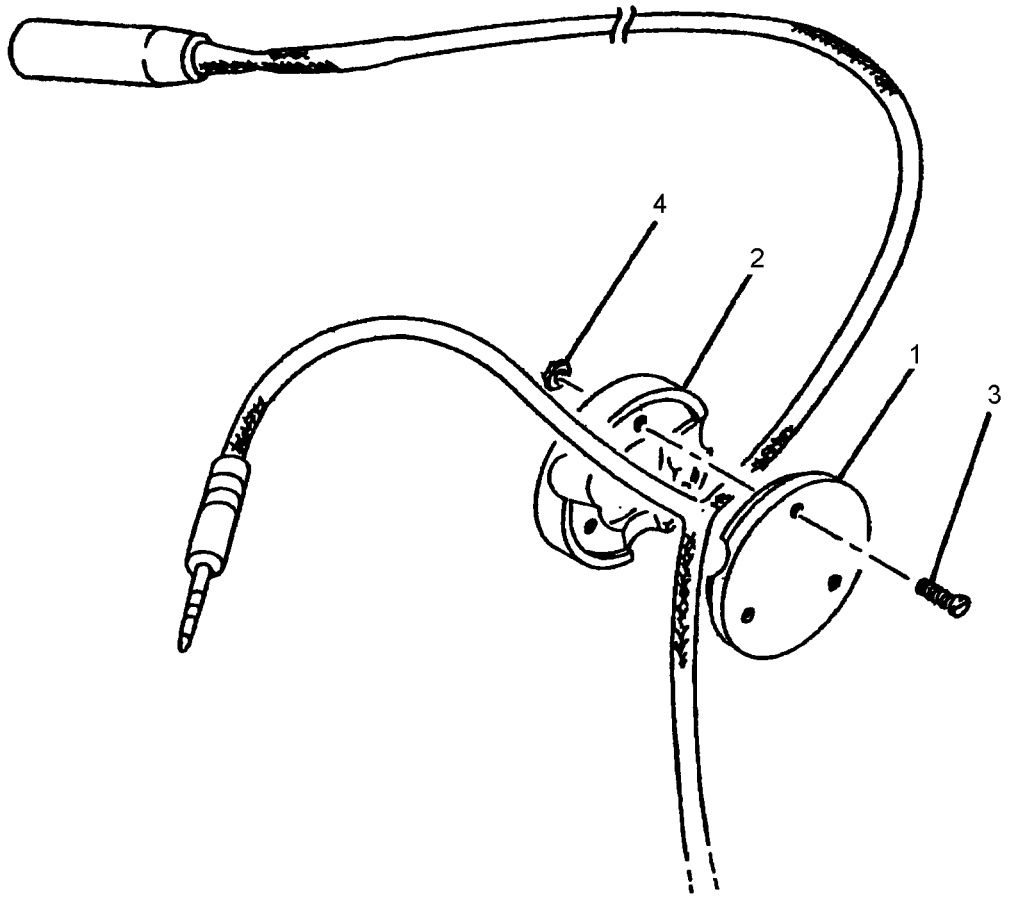

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Figure 11-9. Strain Relief Assembly, Lower

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
11-9	358-1352	STRAIN RELIEF ASSEMBLY, Lower . . . . . (see figure 11-6 for NHA) (92114)	REF	
-1	358-1350	. DISK, Upper (92114)	1	
-2	358-1351	. DISK, Lower (92114)	1	
-3	00-5488	. . SCREW, 1-72 x 1/4 inch long . . . . . (Fillister Head) (92114)	3	
-4	00-5489	. . NUT, Hex. 1-72 x .056 inch thick . . . . . (92114)	3	

NUMERICAL INDEX

Part Number	Figure and Index Number	SM&R Code
AN500D2-3	11-7-19	XA
AN500D2-5	11-6-14	XA
AN526C1032R6	11-6-46	PAOZZN
AN960KD6	11-6-36	XA
G001-5030-01	11-7	PAOZZN
G001-3016-01	11-7-17	PAOZZN
G001-3015-01	11-7-12	PAOZZN
G001-3009-01	11-7-14	XA
G001-3018-01	11-6-5	PAOZZP
G001-3016-01	11-6-6	PAOZZN
G001-3003-01	11-7-18	XA
G001-3015-01	11-6-6	PAOZZN
G001-3014-01	11-6-6	PAOZZN
G001-3014-01	11-7-5	PAOZZN
G001-3006-02	11-7-8	XA
G001-3006-01	11-7-7	XA
G001-3007-01	11-6-6	PAOZZN
G001-3007-01	11-7-4	LP
G001-3004-01	11-7-6	XA
G001-3001-01	11-6-6	PAOZZP
G001-3002-01	11-7-1	XA
G001-3001-01	11-7	PAOZZP
G002-1060-01	11-6-7	PAOZZN
G012-9005	11-7-13	XA
G012-9002-01	11-6-12	XA
G012-9002-01	11-7	PAOZZN
G012-1046-01	11-6-22	PAOZZN
G012-1034-01	11-6-23	PAOZZN
G012-1035-01	11-6-17	XA
G012-1033-01	11-6-19	PAOZZN
G012-1036-01	11-6-4	PAOZZN
G030-1055-01	11-6-8	PAOZZP
GW-9683	11-7-15	XA
GW-9682	11-7-9	XA
GW-9679	11-7-11	XA
GW-9678	11-7-10	XA
GW-9682 (L/P)	11-6-6	PAOZZN
GW-9678 (L/P)	11-6-6	PAOZZN
GW-9680	11-7-2	XA
GW-9660	11-7-16	XA
GW9658	11-7	PAOZZN
GW9729	11-6-20	PAOZZN
GW9729	11-6-6	PAOZZN
GW9729	11-7-3	PAOZZN
MS16995-2	11-6-12	XA
MS35190-214	11-6-62	PAOZZN
MS35333-39	11-6-47	PAOZZN

Part Number	Figure and Index Number	SM&R Code
MS35333-35	11-6-17	XA
MS35649-222	11-6-63	PAOZZN
00-5493	11-6-43	PAOZZN
00-5489	11-9-4	XA
00-5488	11-9-3	XA
00-4894-3	11-6-69	XA
00-3244	11-6-35	XA
00-2234	11-6-11	PAOZZN
00-1587	11-6-13	PAOZZN
00-1081	11-6-15	XA
00-668	11-6-21	XA
00-639	11-6-18	PAOZZN
00-66	11-6-16	XA
09168P-33	11-6-13	PAOZZN
2089288-2302	11-6-14	XA
211-60	11-7	PAOZZN
232-1823	11-6-5	PAOZZP
232-1309	11-6-9	PAOZZN
232-1292	11-6-10	PAOZZN
232-1110	11-6-3	PAOZZP
232-203	11-6-30	PAOZZN
232-202	11-6-31	PAOZZN
232-115	11-6-24	XA
232-94A	11-6-7	PAOZZN
249-425	11-6-23	PAOZZN
322-74	11-8-3	PAOZZN
322-73	11-8-4	PAOZZN
322-72	11-8-2	PAOZZN
322-71	11-8-1	PAOZZN
322-70	11-8	PAOZZP
339-16	11-6-22	PAOZZN
358-1460	11-6-57	XA
358-1506V-1	11-6	PAOOP
358-1506V	11-6	PAOOP
358-1459	11-6-1	PAOZZN
358-1362	11-6-67	PAOZZN
358-1352	11-6-68	PAOZZN
358-1355-3	11-6-61	PAOZZP
358-1317	11-6-65	PAOZZN
358-1316	11-6-66	XA
358-1309	11-6-64	PAOZZN
358-1358	11-6-8	PAOZZP
358-1315	11-6-48	PAOZZN
358-1314	11-6-45	PAOZZN
358-1313	11-6-44	PAOZZN
358-1351	11-9-2	XA
358-1352	11-9	PAOZZ

NUMERICAL INDEX (Cont)

Part Number	Figure and Index Number	SM&R Code
358-1350	11-9-1	XA
358-1256-2	11-6-60	XA
358-1256-1	11-6-59	PAOZZP
358-1257	11-6-58	XA
358-1255-1	11-6-40	PAOZZP
358-1232-1	11-6-39	
358-1231	11-6-38	
358-1228-3	11-6-37	XA
358-1224-3	11-6-33	PAOZZN
358-1223-5	11-6-25	PAOZZP
358-1227	11-6-26	PAOZZN
358-1223-3	11-6-25	PAOZZP
358-1074	11-6-50	PAOZZN
358-1018-4	11-6-55	XA
358-1018-3	11-6-54	XA

Part Number	Figure and Index Number	SM&R Code
358-1017-2	11-6-53	PAOZZN
358-1016	11-6-56	XA
358-1015	11-6-52	PAOZZN
358-1013	11-6-51	PAOZZN
358-1059	11-6-2	PAOZZN
358-636	11-6-49	PAOZZN
358-637	11-6-34	XA
358-613-4	11-6-42	PAOZZN
358-613-3	11-6-41	PAOZZN
358-174	11-6-29	PAOZZN
358-13	11-6-32	PAOZZN
358-15	11-6-27	PAOZZN
358-14	11-6-28	PAOZZN
450-134A	11-6-19	PAOZZN
834-18	11-6-4	PAOZZN