CHAPTER 7

FULL-FACE OXYGEN AND SMOKE MASK

P/N 651-469

Section 7-1. Description

7-1. GENERAL.

7-2. The Full-Face Oxygen and Smoke Mask (figure 7-1) is designed to dispense gaseous oxygen from a demand type regulator. The mask also provides protection against smoke, carbon monoxide, or other incapacitating gases.

7-3. The mask may be fitted with earphones or be worn with a protective helmet. It is supplied in one size which is fitted by adjusting the adjustable headstraps of the molded rubber headstrap assembly.

7-4. CONFIGURATION.

7-5. The single configuration of the Full-Face Oxygen and Smoke Mask consists of a molded rubber facepiece with microphone cavity, allyl plastic lens, exhalation valve, three inhalation valves, and molded rubber headstrap assembly. The mask has a flexible black silicon oxygen delivery hose with an external communications lead coiled around it following the convolutions of the hose. Attached to the intake end of the hose is an MC-3A type connector.

7-6. FUNCTION.

7-7. When connected to an aircraft's oxygen system, the intake flow of oxygen is through the MC-3A connector, delivery hose, and inlet port (figure 7-2). Oxygen enters the mask through two inlet ducts positioned along the base of the facepiece lens. The oxygen then flows across the lens producing a defogging effect before passing to the user through two inhalation valves in the nosecup assembly.

7-8. The exhalation process is accomplished as the pressure of the user's exhaled breath overcomes the resistance of the valve springs and diaphragm of the exhalation valve. The exhalation valve is designed to yield to a pressure of less than 4 milligrams of mercury. This pressure is greater than the pressure of the intake oxygen supplied by the oxygen regulator. The net result is that upon exhaling, the pressure of the user's breath closes the inhalation valves in the nosecup assembly and opens the exhalation valve allowing the exhaled air to escape into the atmosphere.

7-9. SERVICE LIFE.

7-10. Service life of the Full-Face Oxygen and Smoke Mask as established by the cognizant engineering activity is indefinite. The mask is considered serviceable if it meets periodic inspection requirements.

Section 7-2. Modifications

7-11. GENERAL.

7-12. No modifications are required or authorized for this mask.

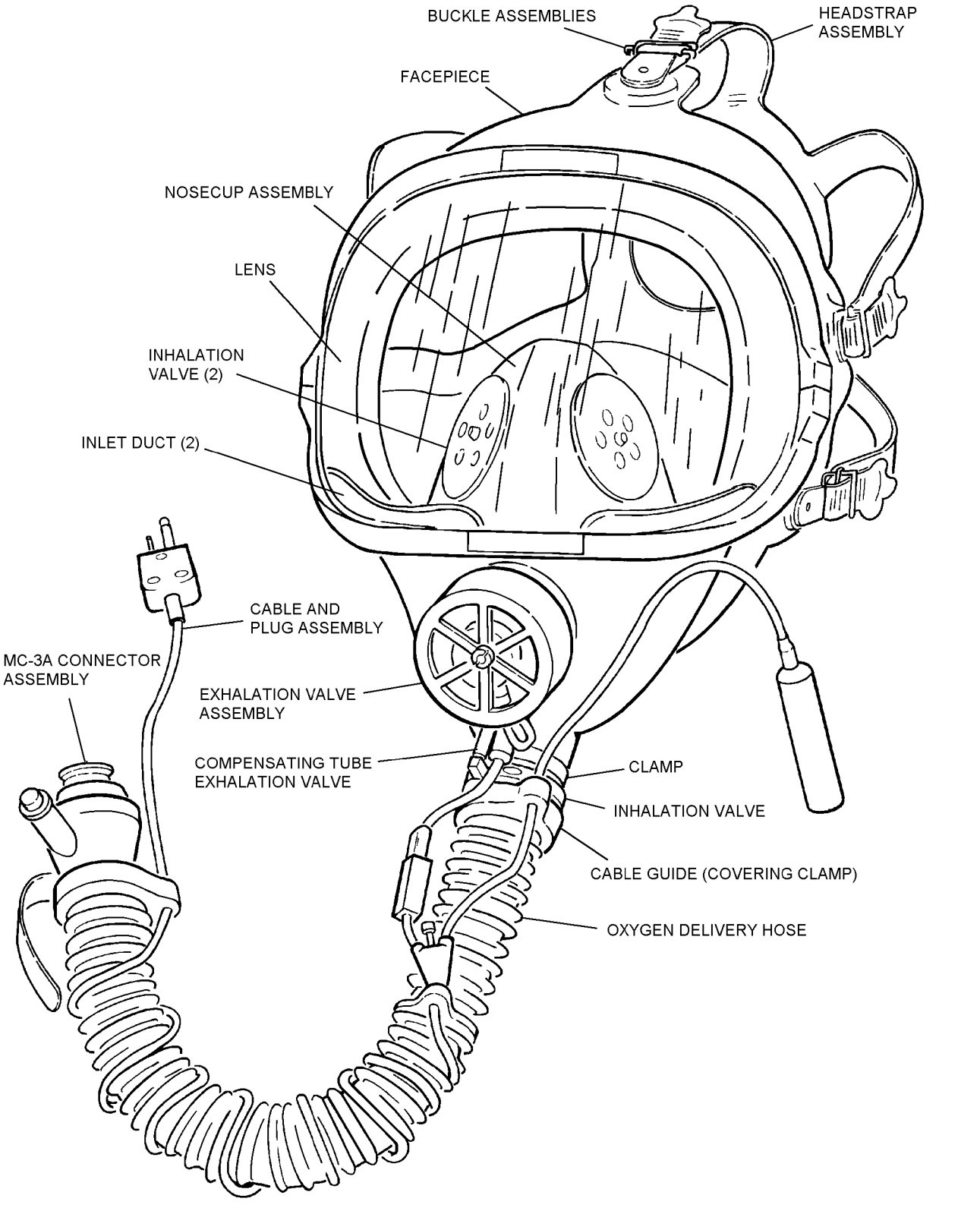

Figure 7-1. Full-Face Oxygen and Smoke Mask (P/N 651-469)

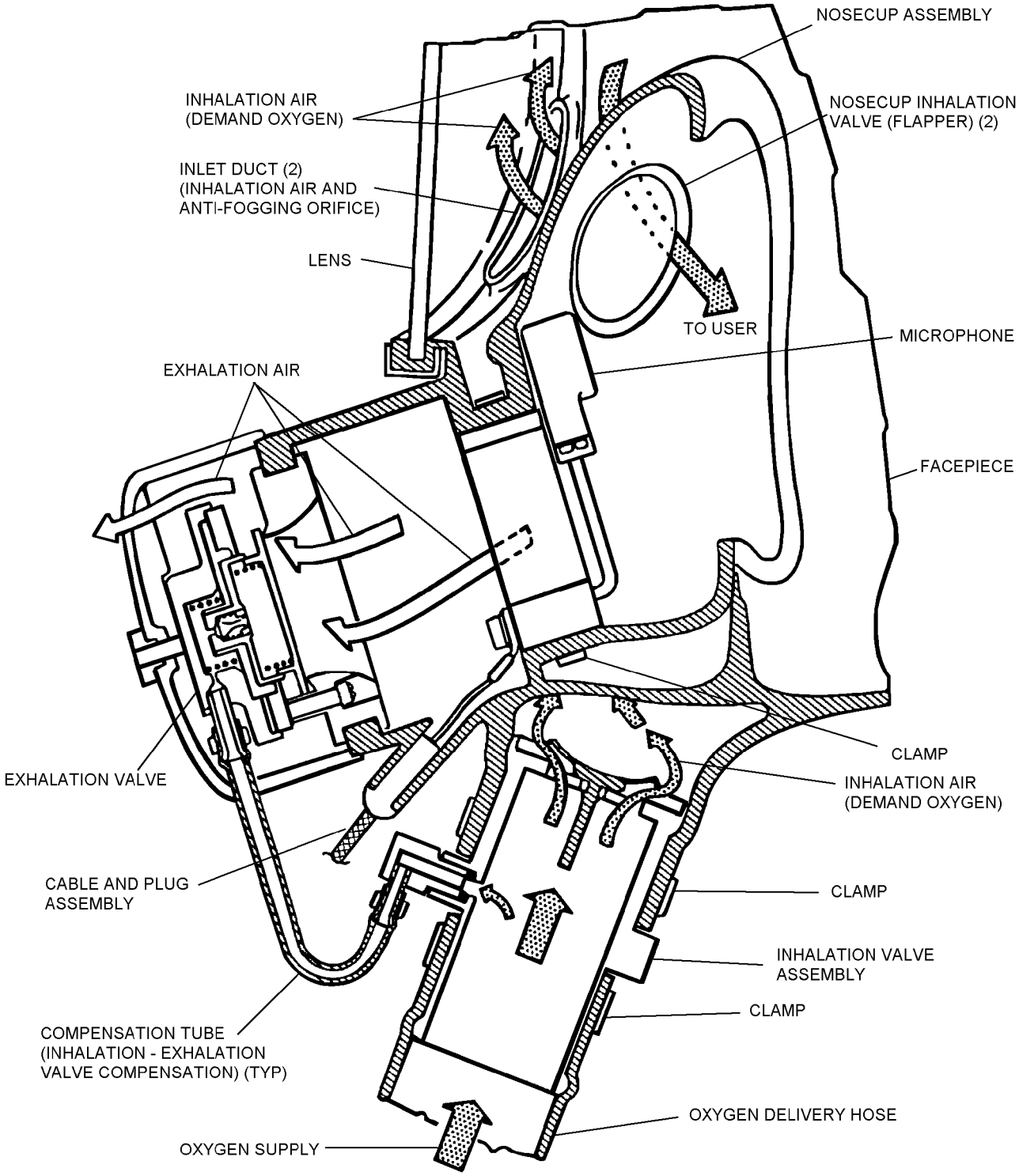

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Figure 7-2. Functional Diagram of the Full-Face Oxygen/Smoke Mask

Section 7-3. Maintenance

7-13. GENERAL.

7-14. This section contains procedural steps for disassembly, cleaning, inspection, assembly, functional testing, sanitizing, and storage. All work shall be performed in a clean, oil and 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.

7-15. INSPECTION.

7-16. PREFLIGHT INSPECTION. The Preflight Inspection consists of a Visual Inspection and Functional Test performed before each flight by the aircrewmember who will use the mask. Perform the inspection as follows:

1. Perform Visual Inspection in accordance with paragraph 7-18.

2. Check mask communication functions for proper operation.

3. Perform Functional Test in accordance with paragraph 7-26.

4. If malfunctions are found or suspected, return mask to Aviator's Equipment Branch for corrective action.

7-17. 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 masks are installed. To perform the inspection, proceed as follows:

1. Perform Visual Inspection in accordance with paragraph 7-18.

2. Check mask communication functions for proper operation.

3. Perform Functional Test in accordance with paragraph 7-26.

4. Sanitize mask in accordance with paragraph 7-27.

5. If malfunctions are found or suspected, return mask to Aviator's Equipment Branch for corrective action.

7-18. Visual Inspection. Minimum requirements of Visual Inspection of the Full-Face Oxygen and Smoke Mask shall consist of the following:

1. Inspect mask assembly interior and exterior and oxygen delivery hose for deterioration, wear, cracks, tears, cuts, soil, and presence of foreign matter.

2. Stretch oxygen delivery hose to expanded position. Inspect condition of hose at each convolution for signs of deterioration such as cracks, wear, or weakness.

3. Inspect condition of fit and seal at all connecting and attachment points in the facepiece and oxygen delivery hose which must hold pressure during operation. Particular attention shall be given to mask-to-hose and hose-to-connector points.

a. Grasp connection on both sides of hose clamp and jerk sharply.

CAUTION

Do not overtighten hose clamps; Mask or hose material may become pleated and lead to eventual failure due to tearing of material.

b. If separation occurs, reassemble and tighten hose clamp. If there is other evidence of loose fitting, ensure proper assembly and tighten clamp.

c. Repeat step 3 above to recheck security of connector.

4. Examine facepiece lens for cracks or crazing, and for scratches which may distort vision.

5. Inspect buckles and straps of headstrap assembly for security of attachment, deterioration, cuts, and proper operation and adjustment.

6. If malfunctions are found or suspected, return mask to Aviator's Equipment Branch for corrective action.

7-19. 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 7-20).
2. Cleaning (paragraph 7-21).
3. Visual Inspection (paragraph 7-24).
4. Assembly (paragraph 7-25).
5. Functional Test (paragraph 7-26).
6. Sanitizing (paragraph 7-27).

7-20. Disassembly. Disassemble the mask using figure 7-5 for parts identification.

Support Equipment Required

Quantity	Description	Reference Number
1	Elastrator	00-6297 (CAGE 92114)
1	Pliers, Hose Clamp	450-813 (CAGE 92114)
1	Screwdriver, Broad-Tip (Modified)	Fabriate IAW figure 7-3
1	Screwdriver, Jeweler's	—

CAUTION

Remove lens (40) from mask assembly to prevent scratching or marring during maintenance.

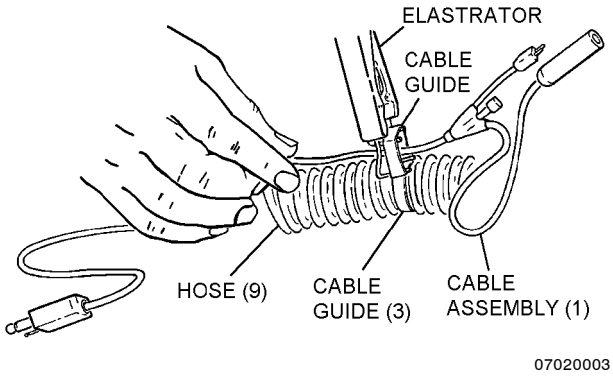
NOTE

Disassemble only to the extent necessary for cleaning, inspection, parts replacement, and Sanitizing or decontamination to restore mask to fully serviceable condition.

1. Remove screws (38) and nuts (39) and remove lens retainers (37) and lens (40) from mask assembly.

2. Depress small button on lower portion of connector on terminal cable and plug assembly (24) to separate from cable and plug assembly (1).

3. Using elastrator, spread cable guides (2 and 3) and remove cable and plug assembly (1).



Step 3 - Para 7-20

4. Move upper and lower cable guides (2) aside and remove hose clamps (4) using hose clamp pliers.

CAUTION

Do not attempt to remove press-fitted roll pins (8 or 23). Displacement of either pin may damage hose-seal surfaces of fitting assembly (7) or inhalation valve assembly (17).

CAUTION

To prevent damage to mask assembly, do not use any mechanical assist (screwdriver or similar tool) to remove delivery hose.

5. Remove fitting assembly (7) from oxygen hose (9), disconnect cord and snap assembly (6) from roll pin (8), and remove oxygen hose (9) from inhalation valve assembly (17).

6. Remove cable guides (2 and 3) from oxygen hose (9).

7. Using modified broad-tip screwdriver (figure 7-3), remove nut (16) and remove exhalation valve cover (15).

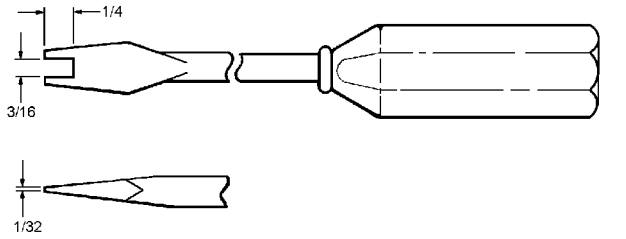


Figure 7-3. Modified Broad-Tip Screwdriver

8. Remove compensation tube assembly by removing four hose clamps (10), hoses (11 and 12), and coupling hose (13).

NOTE

Do not remove setscrew (18), coupling elbow (19), or O-ring (20) from inhalation valve assembly.

9. Using hose clamp pliers, remove hose clamp (5) then remove inhalation valve assembly (17) from facepiece (42).

10. Remove flapper valve (21) from inhalation valve body (22).

11. Remove exhalation valve assembly (14).

12. Reaching through cavity created by removal of exhalation valve assembly, remove socket head screws (25) and washers (26) which secure terminal cable and plug assembly (24) leads to contacts on microphone retainer and bracket assembly (figure 7-4) in nosecup (35).

13. Insert elastrator into cable and plug opening in facepiece (42). Spread opening sufficiently to remove cable and plug assembly leads.

14. Remove nosecup inhalation valve assemblies (27) from nosecup (35) and remove flapper valve (28) from valve housing (29).

15. Remove nosecup (35) from facepiece (42).

16. Using hose clamp pliers, remove clamp (30) from nosecup (35), then remove microphone (32) and microphone retainer and bracket assembly (31) from nosecup (35).

17. Using jeweler's screwdriver, loosen set screws on microphone (32). Remove attaching screws (33) and washer (34), and remove microphone from microphone retainer and bracket assembly (31) (figure 7-4).

18. Remove nameplate (36) only if replacement is required.

7-21. Cleaning. The full-face oxygen and smoke mask may be cleaned using a solution of either of the listed cleaning agents and warm potable water.

Materials Required

Quantity	Description	Reference Number
As required	Detergent, General Purpose, Type I	MIL-D-16791
	or	
As required	Soap, Laundry, Low-filter	P-S-600

Support Equipment Required

Quantity	Description	Reference Number
1	Brush, Test Tube, Dia. 1 1/2 Inches	—
1	Brush, Soft Bristle	—
1	Cloth, Lint-Free, Type II	MIL-C-85043
As required	Swab, Cotton	—

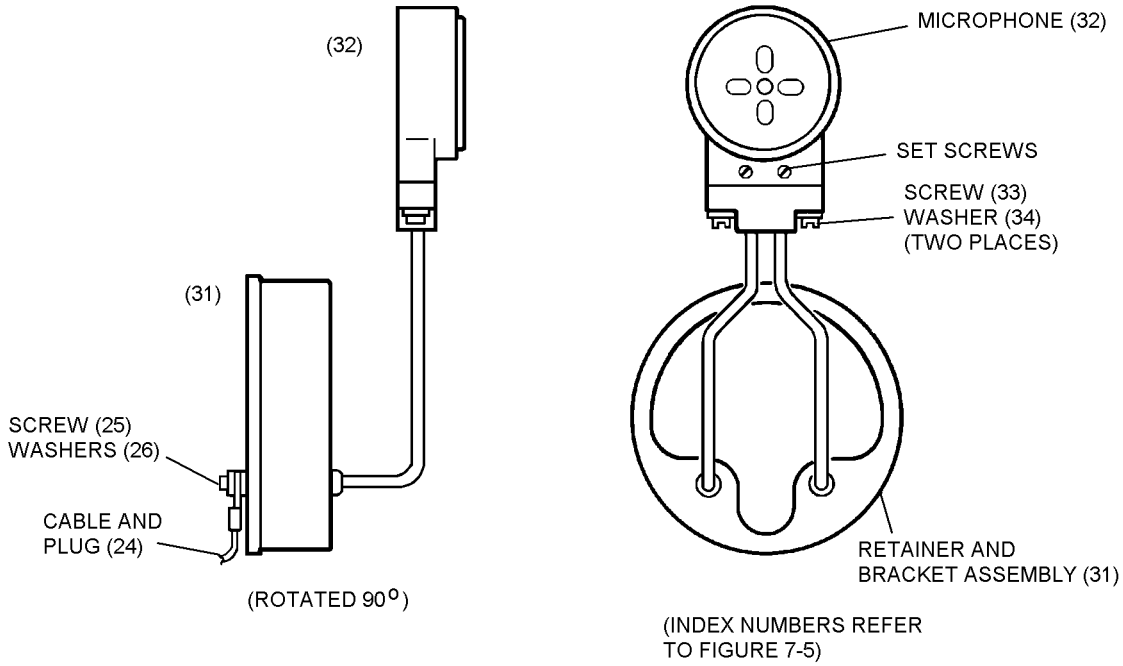


Figure 7-4. Microphone Retainer and Bracket Assembly

7-22. Each of the cleaning solutions prepared in the following quantities is sufficient to clean a minimum of 10 masks:

NOTE

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

1. DETERGENT SOLUTION. Add 1/4 to 1/2 ounce (liquid) of detergent to one gallon of warm potable 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. Add four (4) tablespoons of soap powder to one gallon of warm potable water. Hardness of water may require that more soap powder be used. The solution must be sufficiently strong to readily form lather when agitated. Ensure that all soap powder is dissolved.

7-23. Using the preferred detergent solution, when possible, clean mask as follows:

WARNING

Do not use alcohol in any form, flammable solvents, or liquid toxicants to clean mask.

CAUTION

Ensure microphone is removed before cleaning mask.

NOTE

Disassemble mask only to the extent necessary to clean and restore mask to serviceable condition.

1. Remove microphone assembly, lens, inhalation valve assemblies, and exhalation valve assembly before cleaning mask. Further disassembly shall be performed only to the extent necessary to ensure proper cleaning.

2. Wash external and internal surfaces of mask thoroughly to remove soil and foreign matter. A test tube brush (1 1/2 inches diameter) is recommended to clean interiors of inlet tube and inhalation port. Use soft bristled brush to clean all other surfaces of the mask.

3. After all surfaces have been cleaned, submerge mask in the cleaning solution and agitate thoroughly. Rinse mask in clean, cold potable water and shake to remove excess water.

4. Clean mask microphone and valve assemblies by wiping with swab of clean soft absorbent cloth lightly dampened with clean, potable water. Ensure that no lint remains on microphone or valve assemblies.

5. Use swab of clean soft absorbent cloth to assist in drying mask and components. Ensure that no lint is trapped in valves or crevices of mask. Air-dry in a ventilated area out of direct sunlight.

CAUTION

If mask is forced-air dried, use only clean, dry, oil-free air or nitrogen. Make sure all parts are completely dry before reassembling mask.

Do not use compressed gas to dry evaluation valve or microphone.

6. Assemble mask ensuring that mask and delivery hose are completely dry and free of undissolved soap powder and lint.

7-24. Visual Inspection. Inspection of disassembled mask shall consist of the following:

NOTE

Repair of the Full-Faced Oxygen and Smoke Mask shall be limited to parts replacement. Any hole, puncture, or tear in any component of the mask shall be basis for replacement of that component.

1. Inspect mask assembly for deterioration and material imperfections such as embedded foreign matter, and dirty, rough, misaligned, cracked, nicked, or otherwise flawed surface. Also inspect attached parts for security of attachment, corrosion, and proper function.

2. Inspect exhalation and inhalation valves for nicks, grooves, scratches, or any other damage or flaw which would affect pressure seal capability. If any component of a valve is defective, replace the valve.

3. Inspect headstraps for fraying, deterioration, cuts, or tears. Replace defective headstrap assembly.

4. Inspect oxygen delivery hose for cuts and deterioration such as cracks, abrasions, creases, or flat spots. Replace defective hose.

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

7-25. Assembly. Assemble oxygen/smoke mask using following procedures. Refer to figure 7-5 for parts identification.

Support Equipment Required

Quantity	Description	Reference Number
1	Elastrator	00-6297 (CAGE 92114)
1	Pliers, Hose Clamp	450-813 (CAGE 92114)
1	Screwdriver, Broad-Tip (Modified)	Fabriate IAW figure 7-3
1	Screwdriver, Jeweler's	—

1. If required, peel paper back on nameplate (36) and position on lower frame of lens retainer (37).

2. Attach microphone (32) to microphone retainer and bracket assembly (31) using attaching screws (33) and washers (34).

3. Using jeweler's screwdriver, tighten set screws on microphone (32).

4. Insert retainer and bracket assembly (31), with attached microphone (32), in nosecup (35) and secure with clamp (30) using hose clamp pliers.

CAUTION

Moisten tip of stud on flapper valve (28) and press through center hole of flapper position in valve housing (29). Ensure that flange of stud is completely engaged on valve housing (29).

5. Install flapper valves (28) in valve housings (29) of nosecup inhalation valve assemblies (27) and install in nosecup assembly (35).

6. Install terminal cable and plug assembly (24) in facepiece (42) by using elastrator to expand cable opening in facepiece just enough to insert electrical leads and plug of terminal cable and plug assembly (24).

NOTE

When plug of terminal cable and plug assembly (24) is properly seated in cable opening of facepiece (42), the lead's contacts should be easily positioned on terminals of microphone retainer and bracket assembly (31) in nosecup (35).

7. Install nosecup (35) in mask assembly by seating flange of retainer and bracket assembly (31) (with microphone (32) installed) in mask assembly.

8. Through exhalation valve opening in facepiece (42), attach electrical leads of terminal cable and plug assembly (24) to terminals of microphone retainer and bracket assembly (31) using lockwashers (26) and sockethead screw (25).

9. Install valve flapper (21) in valve body (22) of inhalation valve assembly (17) by moistening tip of valve flapper (21) and pulling it through center hole of flapper position in valve body (22). Ensure that flange of flapper tip is completely engaged in valve body (22).

10. Install inhalation valve assembly (17) in mask assembly and secure with hose clamp (5) using hose clamp pliers.

11. Install exhalation valve assembly (14) by seating facepiece (42) in flange of valve body.

12. Install coupling (13) and hoses (11 and 12) and secure with hose clamps (10) using hose clamp pliers.

13. Install exhalation valve cover (15) on exhalation valve assembly (14) and secure with nut (16) using modified broad tip screwdriver (figure 7-3).

14. Attach nylon cord of snap and cord assembly (6) to roll pin (23). Thread snap and cord assembly (6) through oxygen hose (9).

NOTE

Ensure cord and snap assembly is 15 ±1 inch long as measured from end of loop to end of clip. If new cord and snap assembly is required, cut nylon cord to 19 inches at loop end. Tie non-slip loop and cut opposite end of cord to attain proper length. Sear end of nylon cord.

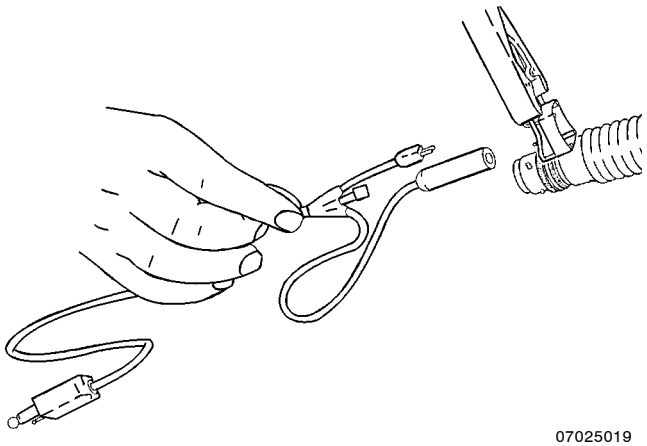
15. Install oxygen hose (9) on inhalation valve assembly (17) and secure with hose clamp (4) using hose clamp pliers.

16. Attach snap of snap and cord assembly (6) to roll pin (8).

17. Install oxygen hose (9) on end of fitting assembly (7) and secure with hose clamp (4) using hose clamp pliers.

18. Place cable guides (2) in position over hose clamps (4) and cable guide (3) in position on oxygen hose (9).

19. Using elastrator tool, expand lower cable guide (2) and insert cable and plug assembly (1) through lower cable guide leaving approximately six inches of cable and connector U-75/U below lower cable guide (2).



Step 19 - Para 7-25

20. Coil cable and plug assembly (1) around oxygen hose (9) then using elastrator tool expand cable guide (3) and insert cable and plug assembly through cable guide to approximately one inch below yoke of cable.

CAUTION

Leave only enough slack in cable above cable guide (3) for freedom of movement during use of mask. Excessive slack provides potential for snagging.

21. Expand upper cable guide (2) using elastrator tool, and insert only connector JJ-026 and approximately six inches of cable through the cable guide.

NOTE

If connector JJ-026 is not to be used, double cable back from top cable guide and tape to cable assembly.

22. Connect cable and plug assembly (1) to terminal cable and plug assembly (24).

23. Install straps of headstrap assembly (41) in buckle assemblies of facepiece (42). Nomenclature of headstrap assembly (41) shall be on the outside (readable) when mask assembly is in donned position.

24. Position lens (40) on facepiece (42) and secure with lens retainers (37) using screws (38) and nuts (39).

25. Examine mask for proper assembly with emphasis on security of mask-to-hose and hose-to-connector connections.

7-26. Mask Functional Test. To perform functional test of mask, proceed as follows:

1. Plug the 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 and 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.

7-27. Sanitizing Masks. Masks not on a personal-issue basis shall be sanitized after each use as follows:

Materials Required

Quantity	Description	Reference Number
As required	Benzalkonium Chloride Solution	MIL-B-37451
As required	Gauze Pads	MIL-G-3379B
As required	Sani Com 3205	NIIN 01-299-5061

NOTE

Pour benzalkonium chloride solution into a container sufficient to sanitize at least 10 masks.

If benzalkonium chloride solution is not available, Sani Com 3205, can be used.

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

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

7-28. After sanitizing, place mask in a clean approved bag. If the mask is not to be put into immediate service, store in accordance with paragraph 7-29.

7-29. MASK STORAGE.

7-30. After using a personal issue mask, wipe it clean and store it in a clean, approved plastic bag or any other suitable container that will keep the mask clean, dry and lint-free. Masks not used on a personal-issue basis shall be sanitized after each use before storage. Stored masks must have ample ventilation and not be exposed to excessive heat or direct sunlight. Do not store mask in an area where other flight gear will be stored on top of it.

Section 7-4. Illustrated Parts Breakdown

7-31. GENERAL.

7-32. This Section lists and illustrates the procurable parts of the Full-Face Oxygen and Smoke Mask.

7-33. The Illustrated Parts Breakdown should be used during maintenance when requisitioning and identifying parts.

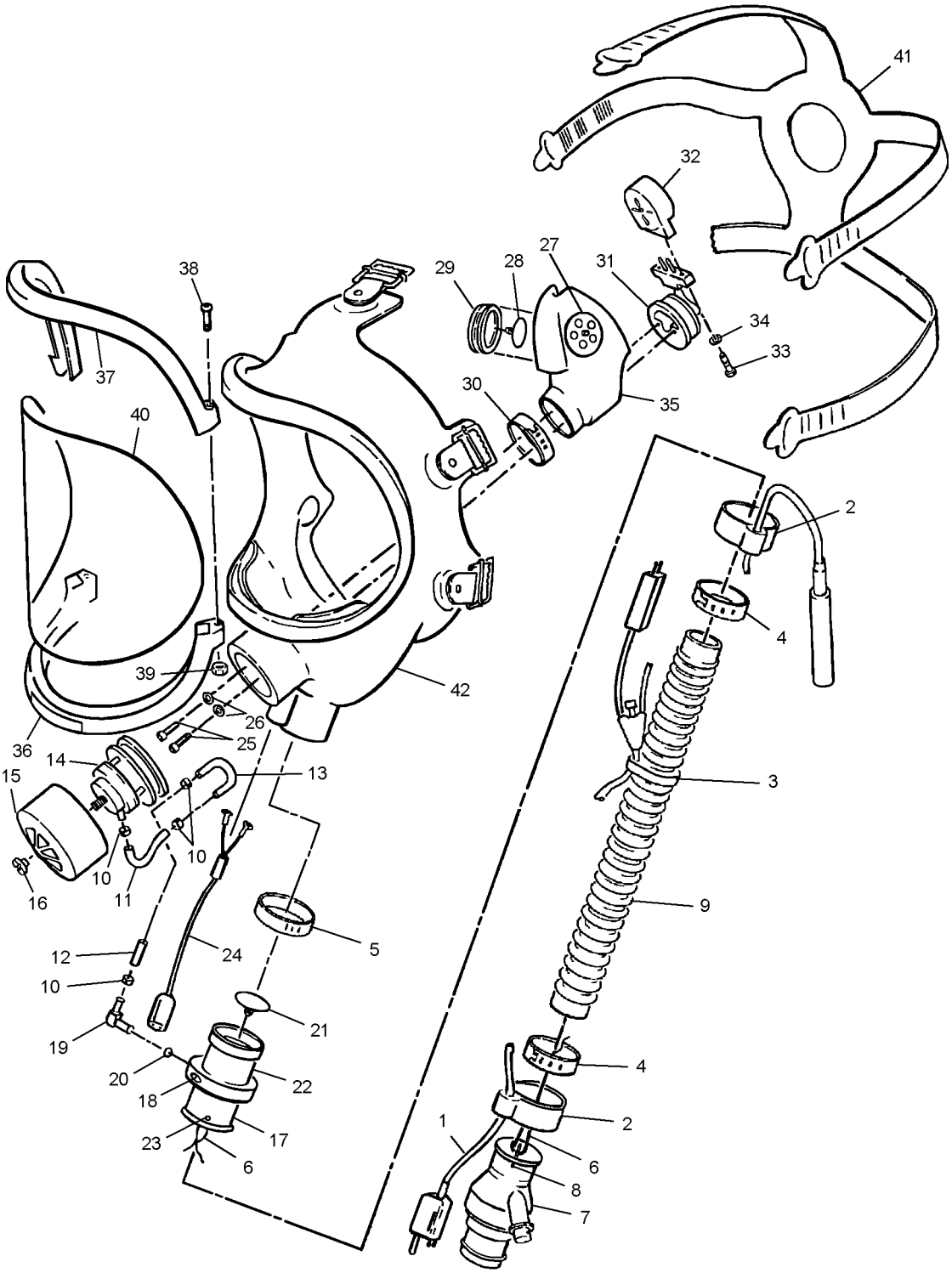


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Figure 7-5. Full-Face Oxygen and Smoke Mask Assembly (P/N 651-469), IPB

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-5	651-469	MASK ASSY, Oxygen and Smoke . . . . . Full-Face (92114)	REF	
-1	3072AS102-1	. CABLE AND PLUG ASSEMBLY (30003)	1	
	CE4707DTR	. CABLE AND PLUG ASSEMBLY (10875)	1	
-2	3072ASl01-3	. GUIDE, Cable (30003) (Clamp Cover)	2	
	651-275-1	. GUIDE, Cable (92114) (Clamp Cover)	2	
-3	3072ASl01-2	. GUIDE, Cable (30003)	1	
	651-274	. GUIDE, Cable (92114)	1	
-4	450-134A	. CLAMP, Hose (92114)	2	
-5	227-477-3	. CLAMP, Hose (92114)	1	
	651-493	. . COVER, Clamp (92114) . . . . . (Not Illustrated)	1	
-6	339-16	. CORD AND SNAP ASSEMBLY (92114)	1	
-7	MS22016	. FITTING ASSEMBLY, Disconnect and . . . . . Connector, Type MC-3A	1	
	232-94A	. FITTING ASSEMBLY, Disconnect and . . . . . Connector, Type MC-3A	1	
-8	00-3082	. . PIN, ROLL (92114)	1	
-9	3072AS101-1	. HOSE, Oxygen (30003)	1	
	249-07-1	. HOSE, Oxygen (92114)	1	
	651-283-3	. TUBE ASSEMBLY, Compensation, ... Inhalation-Exhalation Valve (92114)	1	
-10	CE2301-012-4	. . CLAMP, Hose (78533)	4	
	00-4785	. . CLAMP, Hose (92114)	4	
-11	157-182-5	. . HOSE, Long (92114)	1	
-12	157-182-5	. . HOSE, Short (92114)	1	
-13	157-183	. . COUPLING, Hose (92114)	1	
-14	157-177-1	. VALVE ASSEMBLY, Exhalation (92114)	1	
-15	651-287-3	. . COVER, Exhalation Valve (92114) . . . . . (Part of kit 651-284-2) (ATTACHING PART)	1	
-16	157-184-1	. . NUT (92114) . . . . . ---*---	1	
-17	651-281	. VALVE ASSEMBLY, Inhalation (92114)	1	
-18	00-4916	. . SETSCREW (92114)	1	
-19	157-181	. . COUPLING ASSEMBLY (92114)	1	
-20	2-003	. . O-RING (92114)	1	
	00-4783	. . O-RING (92114)	1	
-21	211-166	. . FLAPPER VALVE (92114)	1	
-22	157-180	. . BODY, Valve (92114)	1	
-23	00-5276	. . . PIN, ROLL (92114)	1	
-24	651-482	. CABLE AND PLUG ASSEMBLY, Terminal . . . . . (ATTACHING PARTS)	1	
-25	00-6074	. SCREW, Socket Head Cap (92114)	2	
-26	AN936A2	. WASHER (88044) . . . . . ---*---	2	
	651-483	. NOSECUP ASSEMBLY (92114)	1	

Figure and Index Number	Part Number	Description 1 2 3 4 5 6 7	Units Per Assembly	Usable On Code
7-5-27	651-282-1	. . VALVE ASSEMBLY, Nosecup . . . . . Inhalation (92114)	2	
-28	138-01-1	. . . FLAPPER VALVE (92114)	1	
-29	651-33	. . . HOUSING, Valve (92114)	1	
-30	651-31	. . CLAMP (92114)	1	
	CE3499-30-1	. . CLAMP (78533)	1	
-31	651-449	. . RETAINER AND BRACKET . . . . . ASSEMBLY, Microphone (92114)	1	
-32	M-101/AIC	. . MICROPHONE (81349)	1	
	00-1587	. . MICROPHONE (92114) . . . . . (ATTACHING PARTS)	1	
-33	MS35275-204	. . SCREW (96906)	2	
	00-4547	. . SCREW (92114)	2	
-34	MS35833-70	. . WASHER (96906)	2	
	00-584	. . WASHER (92114) . . . . . ---*---	2	
-35	651-447	. . NOSECUP (92114)	1	
-36	651-34	. NAME PLATE (92114)	1	
	651-481	. MASK ASSEMBLY (92114)	1	
-37	651-04	. . RETAINER, Lens (92114) . . . . . (ATTACHING PARTS)	2	
-38	MS51957-15	. . SCREW, 4 x 40 x 3/8 Panhead CRES	2	
-39	MS21043-04	. . NUT (96906)	2	
	00-2339	. . NUT (92114) . . . . . ---*---	2	
-40	651-478-1	. . LENS (92114)	1	
	358-79	. . . COVER, Lens (92114) . . . . . (Not Illustrated)	1	
-41	651-447	. . HEADSTRAP ASSEMBLY (92114)	1	
-42	651-11-19	. . FACEPIECE (92114)	1	
	651-283	KIT, Hose (92114)	REF	
	651-283-3	KIT, Hose (92114)	REF	
	651-284-2	KIT, Hose (92114)	REF	

NUMERICAL INDEX

Part Number	Figure and Index Number	SM&R Code
AN936A2	7-5-26	PAFZZ
CE2301-012-4	7-5-10	
CE3499-30-1	7-5-30	
CE4707DTR	7-5-1	
M-101/AIC	7-5-32	
MS21043-04	7-5-39	PAOZZ
MS22016	7-5-7	PAOZZ
MS35275-204	7-5-33	PAOZZ
MS35833-70	7-5-34	PAOZZ
MS51957-15	7-5-38	PAOZZ
00-1587	7-5-32	
00-2339	7-5-39	PAOZZ
00-3082	7-5-8	XA
00-4547	7-5-33	PAOZZ
00-4783	7-5-20	XA
00-4785	7-5-10	XA
00-4916	7-5-18	XA
00-5276	7-5-23	XA
00-584	7-5-34	PAOZZ
00-6074	7-5-25	PAFZZ
138-01-1	7-5-28	XA
156-177-1	7-5-14	PAOZZ
156-180	7-5-22	XA
156-181	7-5-19	XA
156-182-5	7-5-11	XA
	7-5-12	XA
156-183	7-5-13	XA
156-184-1	7-5-16	XA
2-003	7-5-20	XA
211-166	7-5-21	XA
226-477-3	7-5-5	PAFZZ
232-94A	7-5-7	PAOZZ
249-06-1	7-5-9	PAFZZ
3072AS101-1	7-5-9	PAFZZ
3072AS101-2	7-5-3	
3072AS101-3	7-5-2	
3072AS102-1	7-5-1	
339-16	7-5-6	PAOZZ
358-79	7-5-40	PAFZZ
450-134A	7-5-4	PAFZZ
651-04	7-5-37	
651-11-19	7-5-42	XA
651-274	7-5-3	PAFZZ
651-275-1	7-5-2	PAFZZ
651-281	7-5-17	PAOZZ
651-282-1	7-5-27	PAFZZ
651-283	7-5-42	KF
651-283-3	7-5-9	
	7-5-42	KF
651-283-2	7-5-42	KF
651-287-3	7-5-15	KF
651-31	7-5-30	PAFZZ
651-33	7-5-29	XA
651-34	7-5-36	
651-447	7-5-35	PAFZZ
651-449	7-5-31	PAOZZ
651-469	7-5	PAOOO
651-477	7-5-41	XA
651-478-1	7-5-40	
651-481	7-5-36	PAFZZ
651-482	7-5-24	PAFZZ
651-483	7-5-26	PAFZZ
651-493	7-5-5	