



AIRCRAFT MAINTENANCE MANUAL

HIGHLIGHTS

REVISION NO. 75 Jun 01/15

Pages which have been revised are outlined below, together with the Highlights of the Revision

CH/SE/SU C PAGES	REASON FOR CHANGE	EFFECTIVITY
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CHAPTER 35

L.E.P. 1- 2	Revised to Reflect this revision indicating new, revised, and/or deleted pages	
35-00-00	Minor additions and amplification	
201- 202	REVISED PROCEDURE TO REPLACE "GROUNDED" WITH "GROUNDED (EARTHED)".	
35-11-00	Layout Improved or Effectivity Updated	
601		
35-12-51	Minor additions and amplification	
401, 403- 408	REVISED R/I PROCEDURE OF FULL FACE/QUICK DONNING OXYGEN MASK TO IMPROVE THE PACKING PROCEDURE.	
35-12-51	Minor additions and amplification	
701- 705	REVISED PROCEDURE TO ADD STEPS REGARDING LUBRICATION OF LH DOOR OF THE FULL FACE/QUICK DONNING MASK STOWAGE BOX.	
35-13-00	Layout Improved or Effectivity Updated	
2		
35-21-00	Minor additions and amplification	
301- 303, 308	REVISED PROCEDURE TO PUT A WARNING NOTICE IN THE FLIGHT COMPARTMENT PROHIBITING OPERATION OF PUSHBUTTON MASK MAN OVR 14WR AND PUSHBUTTON PUSH TO RESET 15WR.	
35-21-00	Layout Improved or Effectivity Updated	
501- 505		
35-21-11	Minor additions and amplification	
401- 402, 407- 410	REVISED PROCEDURE TO PUT A WARNING NOTICE IN THE FLIGHT COMPARTMENT PROHIBITING OPERATION OF PUSHBUTTON MASK MAN OVR 14WR AND PUSHBUTTON PUSH TO RESET 15WR.	



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35-21-13 404	Layout Improved or Effectivity Updated	
35-21-41 401- 402	Layout Improved or Effectivity Updated	
35-31-00 01 1	Layout Improved or Effectivity Updated	
35-31-11 601- 602	Mod.0001X0057 incorporated TECHNICAL PUBLICATION-BASIC MODIFICATION.	
35-31-12 401- 402	New Topic/New Configuration Mod.0001X0057 incorporated TECHNICAL PUBLICATION-BASIC MODIFICATION.	
35-31-12 601- 604	New Topic/New Configuration Mod.0001X0057 incorporated TECHNICAL PUBLICATION-BASIC MODIFICATION.	
35-32-11 601- 602	Mod.0001X0057 incorporated TECHNICAL PUBLICATION-BASIC MODIFICATION. Minor additions and amplification REVISED INSPECTION/CHECK PROCEDURE TO BE IN ACCORDANCE WITH THE MPD TASKS.	



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CHAPTER 35

OXYGEN

LIST OF EFFECTIVE PAGES

N, R or D indicates pages which are New, Revised or Deleted respectively
Remove and insert the affected pages and complete the Record of Revisions and
the Record of Temporary Revisions as necessary

CH/SE/SU	C	PAGE	DATE	CH/SE/SU	C	PAGE	DATE	CH/SE/SU	C	PAGE	DATE
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OXYGEN

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GENERAL - DESCRIPTION AND OPERATION

1. General

The oxygen system comprises the crew oxygen system, passenger oxygen system, portable oxygen system and protective breathing equipment, including associated controls, monitors and indicators. The systems are independent of each other.

2. Description

A. Crew Oxygen System (Ref. 35-10-00)

The system provides adequate oxygen to sustain the crew in the event of cabin decompression or emission of smoke and noxious gas. Each crew station is equipped with a quick-donning mask which has a mask-mounted regulator. Oxygen is supplied to the masks from a stationary high-pressure oxygen cylinder via a pressure regulator/transmitter unit, distribution block and distribution lines.

B. Passenger Oxygen System (Ref. 35-20-00)

For passengers and cabin attendants, oxygen is provided from chemical oxygen units installed above the passenger seats, in lavatories, galley areas and at cabin attendant stations.

Each unit contains a solid state chemical oxygen generator and two or more oxygen masks and supply lines. If decompression occurs, oxygen masks are released automatically via an altitude switch or manually via an override switch. The oxygen masks can also be released with a manual release tool.

R

C. Portable Oxygen (Ref. 35-30-00)

The portable oxygen system supplies supplementary oxygen for passengers and crew to augment or as a substitute for fixed systems.

(1) Cabin Attendants System

A self-contained, high-pressure, portable oxygen unit is installed in the cabin to provide first aid oxygen for passengers.

R

D. Protective Breathing Equipment (Ref. 35-31-00)

A protective breathing equipment is installed for flight crew members and cabin attendants. The equipment is stored in various locations in the flight compartment and in the passenger compartment. It is a self-con-

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tained unit with an oxygen supply. The equipment is used by crew members in the event of cabin decompression or smoke or noxious gas emissions.

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OXYGEN - GENERAL - MAINTENANCE PRACTICES

1. Reason for the Job

Special Precautions when working on a Gaseous Oxygen System.

2. Equipment and Materials

ITEM	DESIGNATION
A.	Blanking Plugs
B.	Lint-Free Cotton-Gloves
C.	Sealed Vinyl Bag
D.	Warning Notice
Referenced Procedure	
- 24-00-00, P. Block 301	Electrical Power

3. Procedure

A. Special Precautions when you work on a Gaseous Oxygen System

- R
- (1) When you remove pipes or units temporarily, always put metal or plastic blanking plugs on the disconnected line ends. Make sure that these plugs are new, clean and dry. Use one new clean vinyl bag for each pipe or unit. Put the pipe or unit in the bag and seal it. Unwanted materials in the oxygen system can cause damage to the system.
 - (2) Make sure that the manual shutoff valves on all oxygen cylinders are closed before you loosen a connection in the oxygen system.
 - (3) Make sure that the aircraft and the oxygen ground cart are electrically grounded (earthed) during oxygen procedures (Ref. 24-00-00, P. Block 301).
 - (4) Prevent all maintenance procedures nearer than 5 m (16.4 ft.) to the work area of the aircraft.
 - (5) Also stop:
 - all refueling,
 - all repairs on fuel and hydraulic systems,
 - all procedures that use flammable materials such as cleaning and de-icing materials.
 - (6) Make sure that no person connects/disconnects the ground power connector.
 - (7) Make sure there is a warning notice in position to tell persons not to use any electrical switches during the filling procedure.
 - (8) Make sure that the work area is clean and clear of dust and loose articles.
 - (9) Use only approved procedures and materials to clean the components of the oxygen system.
 - (10) Make sure that there are no hydrocarbons (fuels, lubricants etc.) in the work area. Oxygen becomes explosive when it touches hydrocarbons.
 - (11) Make sure that there are no sources of ignition (sparks, flame, smoking etc.) in a radius of 15 m (49.2 ft.) of the filling equipment.
 - (12) Make sure that there are no flammable materials (paint, thinners, cleaning solvents, dust etc.) in the work area.
 - (13) Make sure that your hands, clothing, equipment and tools are all clean

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- and clear of hydrocarbons.
- (14) If possible, use clean lint-free cotton-gloves when you touch components in the oxygen system.
 - (15) Make sure that there is a good flow of air through the working area to prevent a contamination of oxygen.
 - (16) Do not loosen or tighten connections when the system is pressurized.
 - (17) Open the manual shutoff valves on all oxygen cylinders slowly to prevent a sudden increase in temperature.
 - (18) Close the manual shutoff valves on all oxygen cylinders with your hands. Do not use force to tight them.
 - (19) Obey the national rules for oxygen filling.

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CREW - DESCRIPTION AND OPERATION

1. General

A. Purpose and Functions

The crew fixed oxygen system ensures the protection of each flight crew member, occupying a seat in the flight compartment, in the following conditions :

- loss of cabin pressure altitude
- smoke or noxious gas emission.

B. System Installation Arrangement in the A/C (Ref. Fig. 001)

2. System Design Conditions

A. General Conditions

The definition of oxygen systems for commercial jet aircraft with pressurized cabins used above flight level 250 and up to flight level 400 to take into account the following criteria :

- study of the relevant official rulings
- suitable terminology
- study of oxygen quantity requirements and autonomy.

B. Specific Conditions

(1) Flight conditions

(a) Normal conditions

- A/C normal maximum flight altitude : 41,000 feet
- A/C normal maximum cabin altitude : 8000 feet

(b) Critical conditions (Ref. Fig. 002, 003)

The critical flight conditions after a cabin pressure loss considered as the minimum A/C certification conditions are defined in corresponding figures.

(Ref. Fig. 002)

(2) Number of users Flight Crew Members = Four

(3) Supply source

The Flight crew oxygen system includes : a fixed installation supplying the stations corresponding to the crew members seated in the flight compartment.

The installation is supplied from a gaseous oxygen source, the characteristics of which comply with US MIL standard 0-27210-type 1 requirements.

(4) Supply conditions - Degree of protection (Ref. Fig. 004)

3. Description

A. Basic Documents

(Ref. Fig. 005)

(Ref. Fig. 006)

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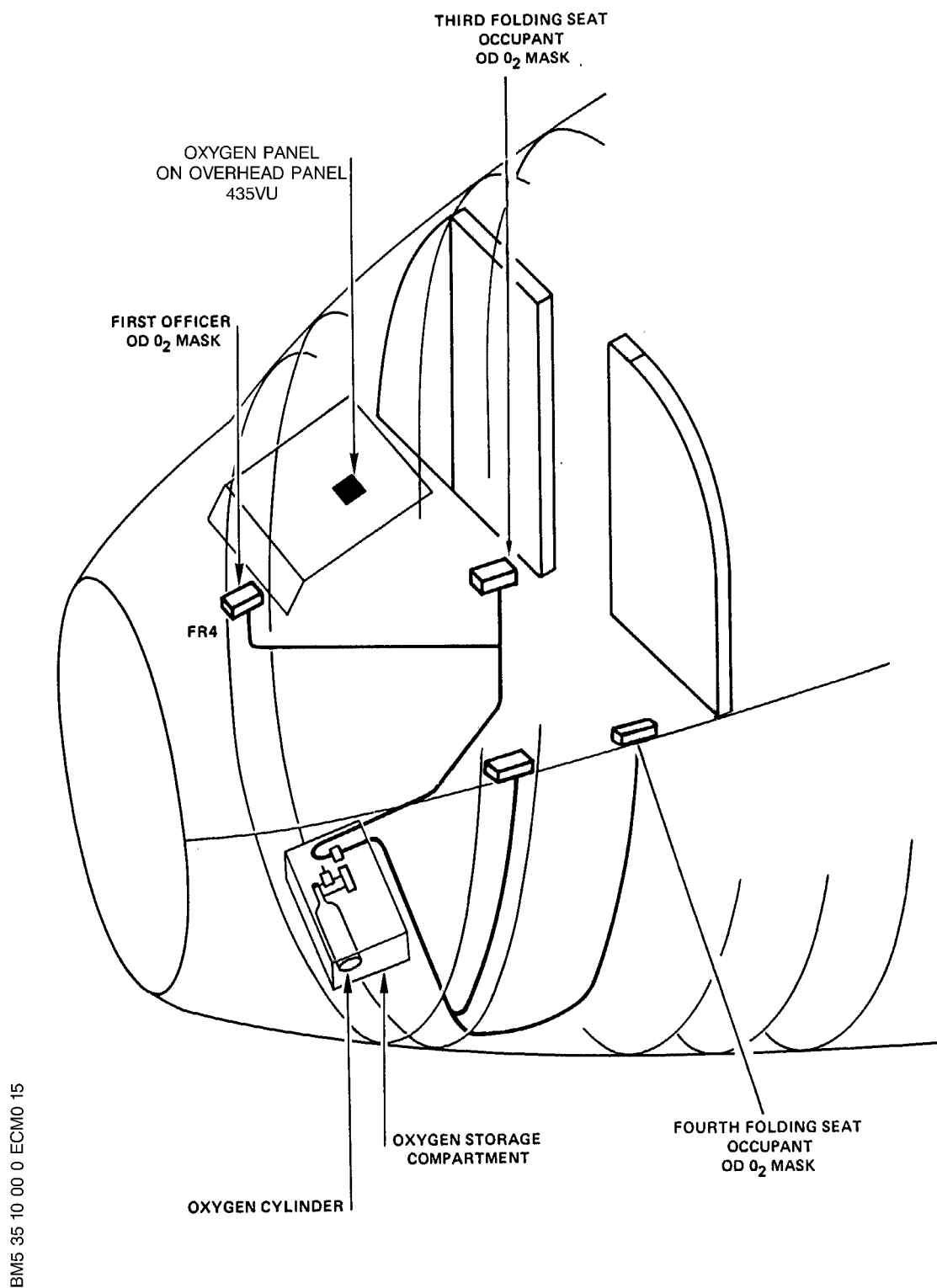
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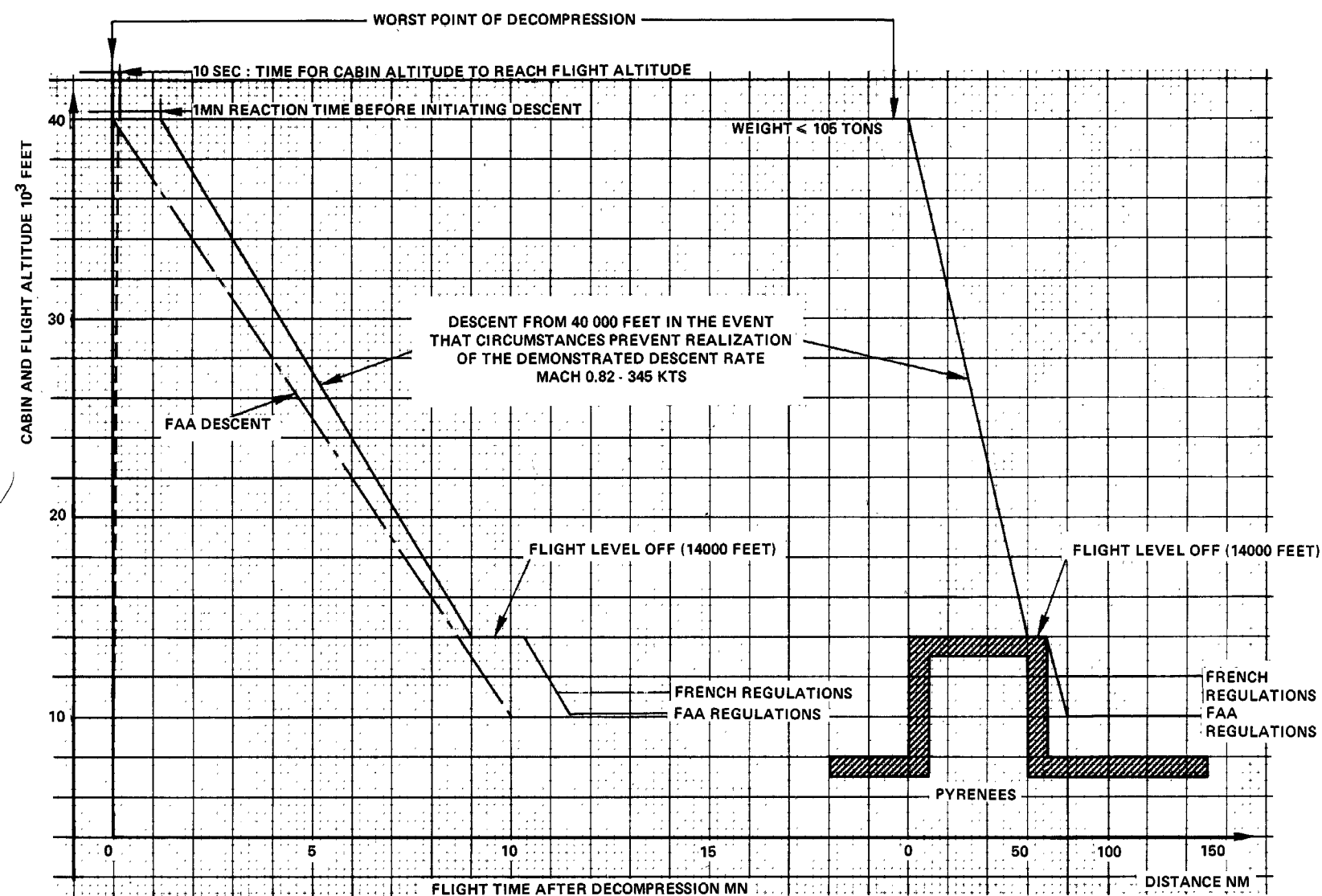
Installation Diagram of Fixed Oxygen in Aircraft
Figure 001

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Critical Flight after Cabin Depressurization for Pyrenees
Figure 002

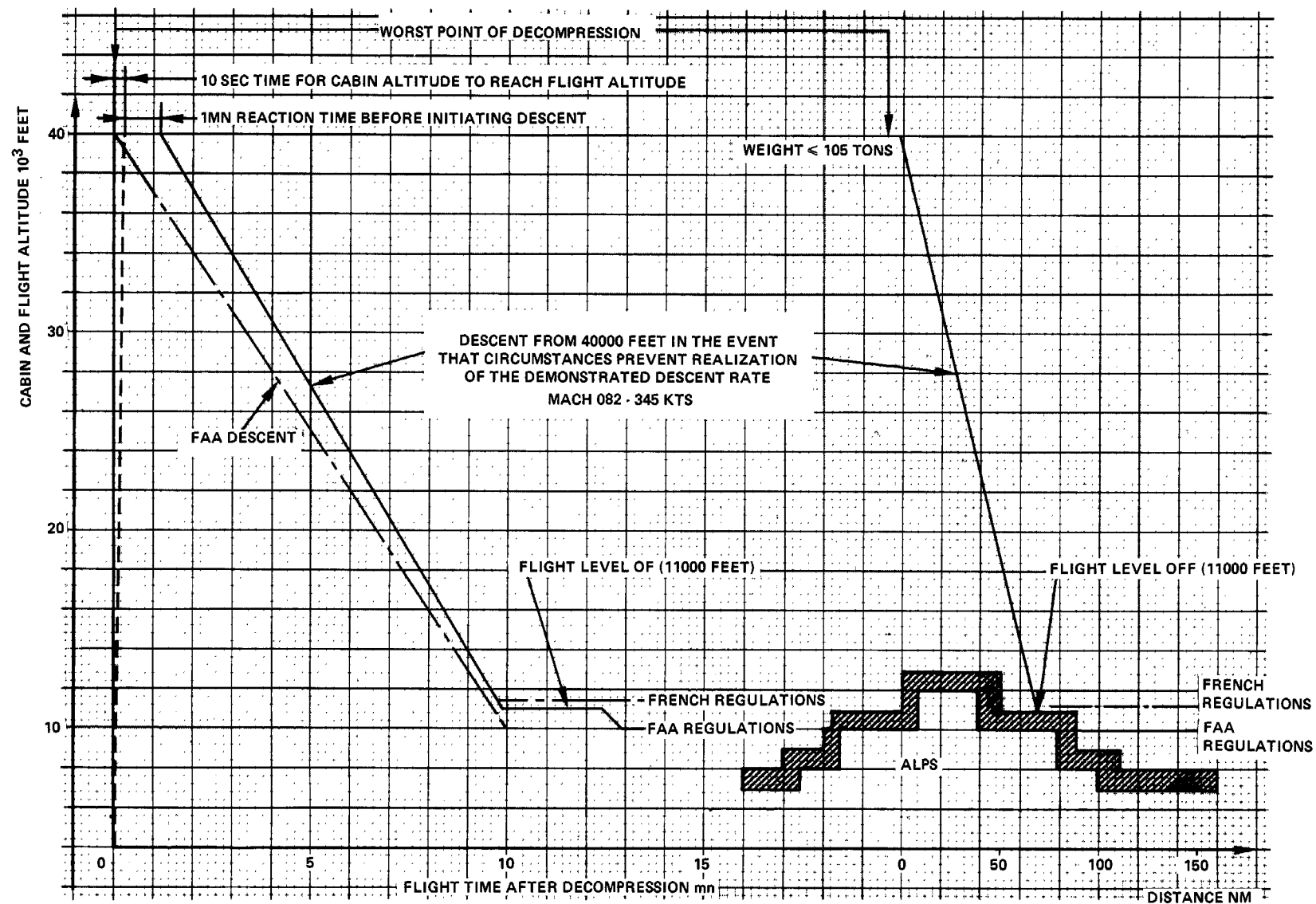
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Critical Flight after Cabin Depressurization for Alpes
 Figure 003

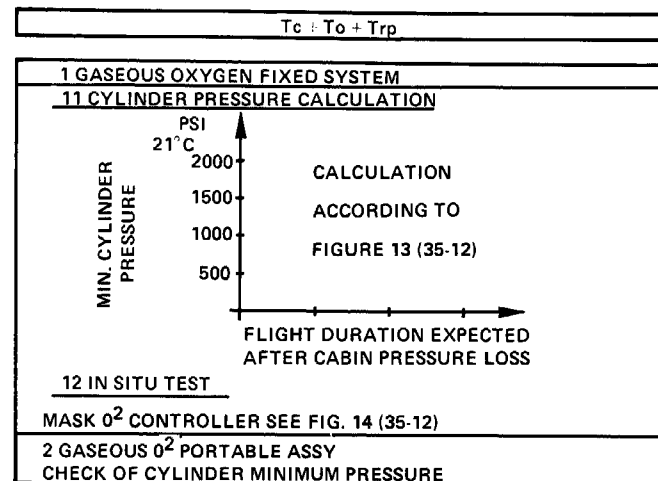
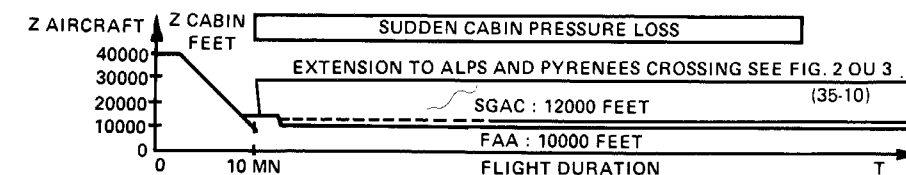
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CHECK LIST

NORMAL FLIGHT
 $Z_c \leq 8000$ FEETSMOKE EMISSION
 $Z_c \leq 8000$ FEET

PREVENTION

CAPTAIN
WHEN THE FIRST OFFICER LEAVES
HIS SEAT AT $Z_p > 25000$ FEET
(FOR SGAC > 30000 FEET)GASEOUS O₂ FIXED SYSTEM

MASK : A-C-E-I-K

DURATION : 15 MN

FLOW : FIG. 11 (35-12) CURVE 2

FIRST OFFICER
WHEN THE CAPTAIN LEAVES HIS
SEAT AT $Z_p > 25000$ FEET
(FOR SGAC > 30000 FEET)GASEOUS O₂ FIXED SYSTEM

MASK : A-C-E-I-K

DURATION : 15 MN

FLOW : FIG. 11 (35-12) CURVE 2

MEDICAL OXYGEN

NOT REQUIRED BY REQUIREMENTS

EMERGENCY OXYGEN

FLIGHT CREW MEMBERS IN FLIGHT
COMPT-1
($T_c + T_o + T_{rp}$)-1GASEOUS O₂ FIXED SYSTEM

MASK : A-C-E-I-K

DURATION : 15 MN

FLOW : FIG. 11 (35-12) CURVE 2

1 CREW MEMBER
 T_c OR T_o OR T_{rp} GASEOUS O₂ PORTABLE ASSY

MASK : B-E-H-K

DURATION : 15 MN

FLOW : FIG. 11 (35-12) CURVE 2

EMERG. OXY.

FLIGHT
CREW MEMBERS
IN FLIGHT
COMPARTMENT
 $T_c + T_o + T_{rp}$

MASK : A-C-E-G

DURATION : 10 MN

FLOW : FIG. 11 (35-12) CURVE 1

SUSTAINING OXYGEN

FLIGHT CREW MEMBERS
ON FLIGHT DECK DUTY
 T_c

GASEOUS OXYGEN FIXED SYSTEM

NOTE 1 : A C E I K

DURATION : 110 MN
FLOW : FIG. 11 (35-12) CURVE 2

FIRST AID OXYGEN

NOT REQUIRED BY REQUIREMENTS

LEGEND

<u>LEGEND</u>						QUANTITY	
CREW MEMBERS	FLIGHT CREW MEMBERS	FLIGHT CREW MEMBERS ON FLIGHT DECK DUTY				Tc	3
		WHO ARE ON CALL IN THE COCKPIT				To	1
		ARE DEFINITELY GOING TO HAVE FLIGHT DECK DUTY BEFORE COMPLETING THE FLIGHT	SEATING IN THE COCKPIT		Trp	0	
			SEATING IN THE CABIN		Trc	0	
	CABIN ATTENDANTS	STANDBY CREW MEMBERS WHO ARE/ON CALL IN THE CABIN				Co	CONSIDERED AS PAX
		REQUIRED CABIN ATTENDANTS				Cm	
		STANDBY CREW MEMBERS NOT ON CALL AND WILL NOT BE ON FLIGHT DECK DUTY DURING THE REMAINDER OF FLIGHT					S

MASK CHARACTERISTICS

MASK CHARACTERISTICS			
TYPE OF MASK		ORAL NASAL	A
		FULL FACE	B
MASK DONNING		QUICK DONNING IN LESS THAN 5 SEC	C
		AUTOMATIC DONNING	D
PRESSURE REGULATOR CHARACTERISTICS	FLOW CHARACTERISTICS	DEMAND FLOW FLOW STOPPED ON EXPIRATION	E
		CONTINUOUS FLOW FLOW SAVED ON EXPIRATION	F
	O ² AND OVERPRESSURE CHARACTERISTICS	100 % AT ANY ALTITUDE WITHOUT OVERPRESSURE	G
		100 % AT ANY ALTITUDE WITH MANUAL OVERPRESSURE	H
		AIR/O ² DILUTION AUTO 100 % O ² ABOVE 30000 FEET	I
		AUTOMATIC ALTIMETRIC OVERPRESSURE	J
MICROPHONE		HIGH LEVEL	K
		LOW LEVEL	L

Oxygen Supply Conditions
Figure 004

R EFFECTIVITY: ALL

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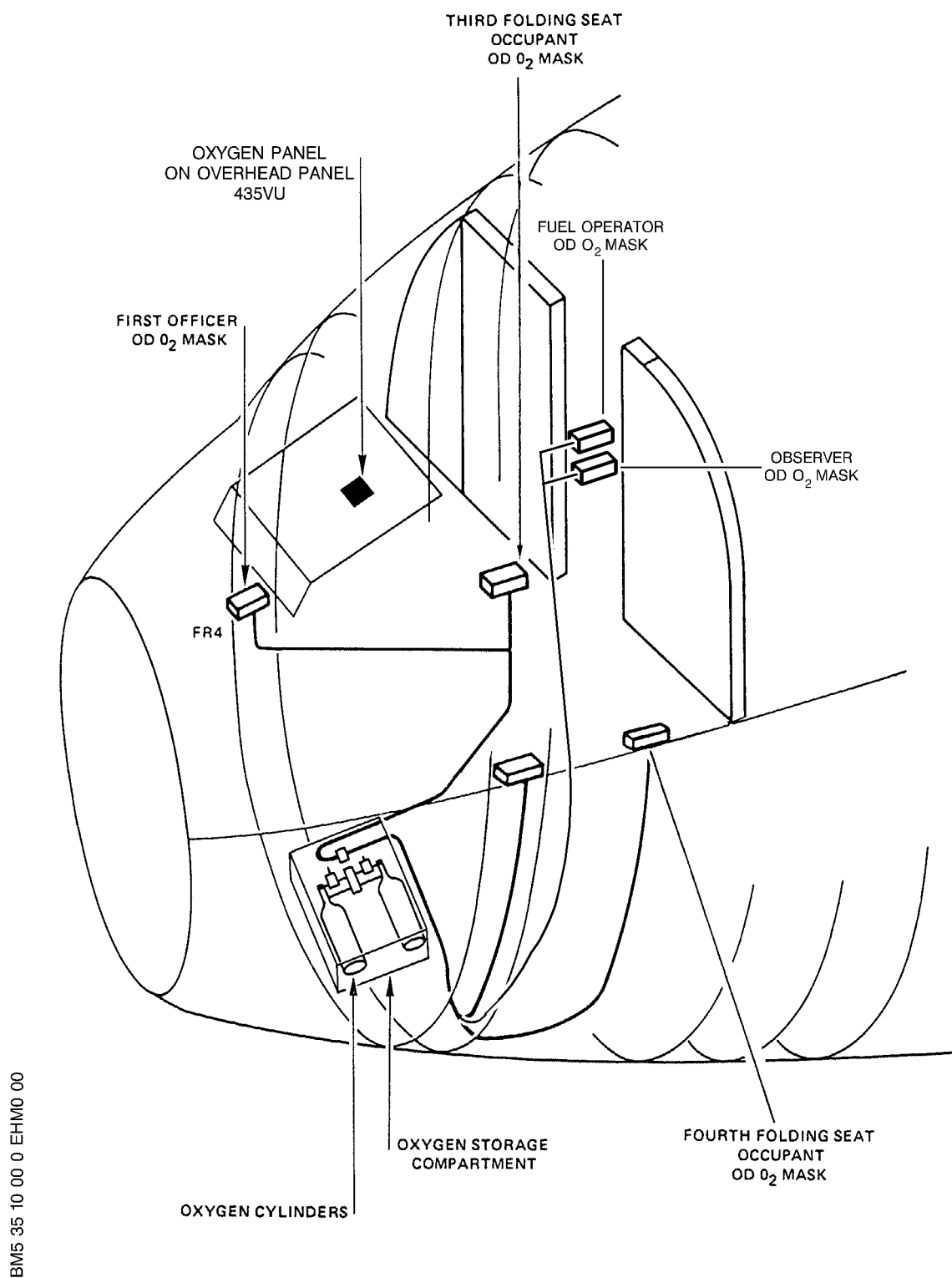
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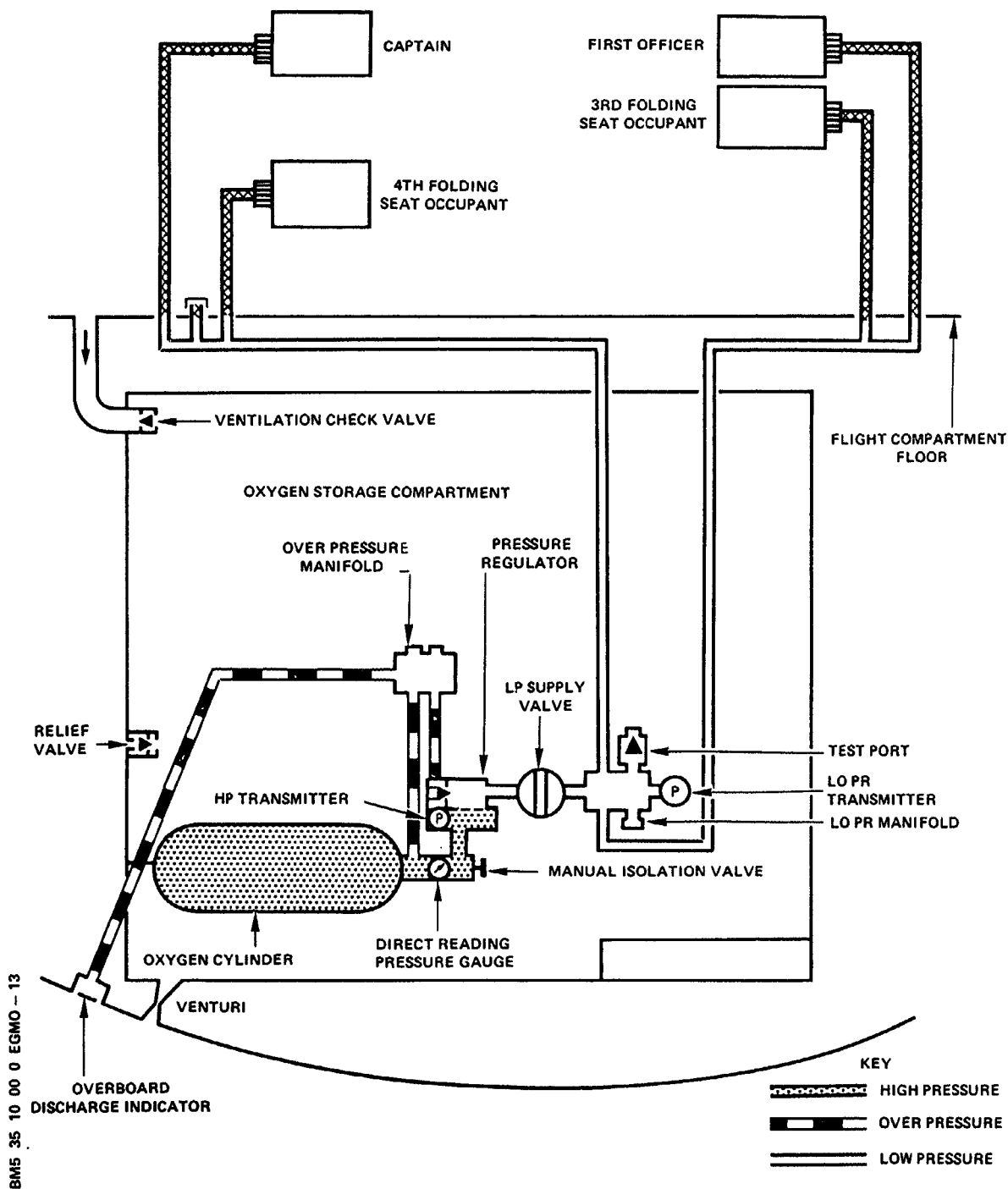
Crew Oxygen System-Instrument Panel
Figure 005

R EFFECTIVITY: ALL

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Crew Oxygen System-Functional Diagram
Figure 006

R EFFECTIVITY: ALL

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B. System Definition**(1) Description**

The fixed oxygen system supplying the flight crew members is composed of :

- one oxygen cylinder, 115 cu. feet (3255 l) in NTPD conditions (NTPD = Normal Temperature : 21°C, Pressure 1013 mb, Dry) Nominal charge : 1850 psig (127 bars).

This cylinder is stored in a partially sealed, ventilated compartment located forward of the avionics compartment and perpendicular to the aircraft centerline.

- a HP transmitter/pressure regulator assembly directly connected to the cylinder and which regulates the downstream pressure to the nominal value of 5.38 ± 0.55 bars (78 ± 8 psig)
- a HP and LP overpressure safety system directly connected to a discharge indicator visible from outside the aircraft
- a supply solenoid valve which enables supply or shut off of the distribution system by direct action of the crew on the flight compartment control and monitoring panel.
- a supply manifold on which are connected :
 - . the two RH and LH distribution systems
 - . a LP oxygen transmitter
 - . a test port for leakage tests
- quick donning oxygen masks for each crew member

(2) Control and monitoring

The system is controlled and monitored from panel 435VU

This panel includes :

- a LO PR SUPPLY (OFF) pushbutton switch which controls opening or closing of the oxygen supply valve
- an HP indicator displaying cylinder pressure
- an LP indicator displaying pressure existing in the distribution systems.

R EFFECTIVITY: ALL

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CREW OXYGEN SYSTEM - ADJUSTMENT/TEST

1. Leakage Test of LP Oxygen System (with dry nitrogen)

A. Reason for the Job

This test enables the LP oxygen system to be checked for leaks.

The test of the LP oxygen system is performed with dry nitrogen which has the same properties as gaseous oxygen.

WARNING : OIL AND GREASE PRESENT A FIRE HAZARD WHEN IN CONTACT WITH OXYGEN THEREFORE TOOLS AND HANDS MUST BE CLEAN.

B. Equipment and Materials

ITEM	DESIGNATION
(1)	Access Platform 2.60 m (8 ft. 6 in.)
(2)	Dry Nitrogen Source
(3)	Pressure Reducing Valve
(4)	Bleed Valve
(5)	Two Isolation Valves
(6)	Two Pressure Gages - Range : 0 to 150 psi
(7)	PURITAN Unions 110-111-36 New Seals
(8)	Blanking Plugs/Caps
(9)Material No. 05-004	Special Materials (Ref. 20-31-00)
Referenced Procedure - 24-41-00, P. Block 301	AC External Power Control

R C. Procedure

R (1)Job Set-up

(Ref. Fig. 501)

R (a)Position access platform.

R (b)Connect electrical ground power unit and energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).

R (c)Make certain that electronics rack ventilation is correct.

R (d)Open forward cargo compartment door.

R (e)Open access door 132AZ.

R (f)Open oxygen cylinder storage compartment access door.

R (g)Close manual cylinder valve.

R (h)Check that the following circuit breaker is closed :

PANEL	SERVICE	IDENT.	LOCATION
22VU	CREW OXYGEN	18HT	208/B28

R (j)On CREW OXYGEN panel 435VU, press LO PR SUPPLY pushbutton switch (ON position).

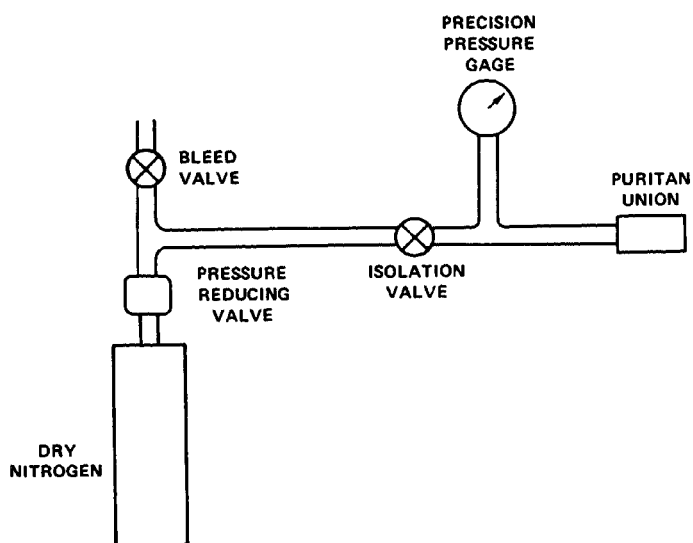
R (k)Bleed oxygen systems, using a crew mask and operating the RESET TEST control slide until LP indicator is at its lowest.

EFFECTIVITY: ALL

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DMS

Test Installation
Figure 501

EFFECTIVITY: ALL

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- R (l)Set up test installation as per figure.
R (m)On regulator, disconnect pipe leading to LP discharge indicator and blank port. Also blank open end of pipe.
R (n)Connect test installation to test connector 110.
- R (2)Test
R (a)Open dry nitrogen source and regulate air pressure to 130 psi (9 bars) using pressure-reducing valve.
R (b)Close isolation valve and nitrogen source.
R (c)System shall remain pressurized for half an hour minimum.
No leak is permitted.
If a leak is detected, trace its origin using Material No. 05-004 and replace faulty component.
R (d)Open isolation valve.
R (e)Open bleed valve.
- R (3)Close-up
R (a)Disconnect test installation. Connect pipe to regulator.
WARNING : DO NOT FORGET TO INSTALL A NEW SEAL ON UNION.
R (b)Open cylinder manual valve very slowly, 3 to 4 turns.
R (c)Wait approximately 90 s for system pressure to stabilize.
R (d)Fully open the valve.
R (e)Bleed system pipes:
R 1 On each mask stowage box, simultaneously press (1 mn approx.)
TEST-RESET control slide and PRESS TO TEST button on mask regulator.
NOTE : Absence of flow at end of test can be checked by listening to the gas flow noise in the headset.
R (f)Close cylinder stowage compartment.
R (g)On CREW OXYGEN panel 435VU, release LO PR SUPPLY pushbutton switch (OFF position).
R (h)De-energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
R (j)Close access door.
R (k)Remove access platform.

2. Leakage Test of LP Oxygen System (with oxygen cylinder source)

A. Reason for the Job

This test enables the LP oxygen system to be checked for leaks.

The test of the LP oxygen system is performed with oxygen cylinder source.

WARNING : OIL AND GREASE PRESENT A FIRE HAZARD WHEN IN CONTACT WITH OXYGEN
THEREFORE TOOLS AND HANDS MUST BE CLEAN.

B. Equipment and Materials

ITEM	DESIGNATION
(1)	Access Platform 2.60 m (8 ft. 6 in.)
(2)	Pressure Gage Range : 0 to 150 psi
(3)Material No. 05-004	Special Materials (Ref. 20-31-00)
Referenced Procedure	
- 24-41-00, P. Block 301	AC External Power Control

EFFECTIVITY: ALL

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- R C. Procedure
- R (1)Job Set-up
- R (a)Position access platform.
- R (b)Connect electrical ground power unit and energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
- R (c)Make certain that electronics racks ventilation is correct.
- R (d)Open forward cargo compartment door.
- R (e)Open access door 132AZ.
- R (f)Open oxygen storage compartment access door.
- R (g)Close manual cylinder valve.
- R (h)Check that the following circuit breaker is closed :

PANEL	SERVICE	IDENT.	LOCATION
22VU	CREW OXYGEN	18HT	208/B28

- R (j)On CREW OXYGEN panel 435VU press to release LO PR SUPPLY pushbutton switch (ON position).
- R (k)Bleed oxygen system, using a crew mask and operate the RESET TEST control slide until LP indicator is at its lowest.
- R (l)Remove blanking cap from the test port and install the pressure gage.
- R (2)Test
- R (a)Open manual cylinder valve very slowly 3 to 4 turns.
- R (b)Wait approximately 90 s for system pressure to stabilize.
- R (c)Fully open manual cylinder valve and let the pressure become stable.
- R (d)Close cylinder valve.
- R (e)On the pressure gage measure the initial pressure (Pi) on LP oxygen system (between 70 and 94 psi).
- R (f)On the ECAM display unit measure the outside air temperature (OAT) and the cockpit temperature.
- R (g)Calculate the initial temperature as follows :
- $$T_i = \frac{OAT + CKPT \text{ Temp.}}{2}$$
- R (h)Let the system pressurize for an hour and measure Final Pressure (PF).
- R (j)Measure again the outside air temperature and the cockpit temperature.
- R (k)Calculate the final temperature :
- $$T_f = \frac{OAT + CKPT \text{ Temp.}}{2}$$

NOTE : The initial pressure and the final pressure must be the same within 2 psi of tolerance.

If the temperature has changed during the end of the test, correct as follows:

$$P_f = P_i \times \frac{273 + T_f}{273 + T_i}$$

Pi = initial Pressure

Pf = final Pressure

Tf = final Temperature in °C

Ti = initial Temperature in °C

- R (l)After test, make sure that the pressure read on the pressure gage is stable (within 2 psi of tolerance).

EFFECTIVITY: ALL

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- R (m) If the pressure decrease is out of tolerance, do a leak test:
- wipe off special Material 05-004 from each union and replace faulty component.
- R (3) Close-up
- R (a) Remove pressure gage and install blanking cap on test port.
- R (b) Open cylinder manual valve slowly 3 to 4 turns.
- R (c) Wait approximately 90 s for system pressure to stabilize.
- R (d) Fully open manual valve.
- R (e) Bleed system pipes:
1 On each mask stowage box, simultaneously press (1 mn approx.)
TEST-RESET control slide and PRESS TO TEST button on mask regulator.
NOTE : Absence of flow at end of test can be checked by listening to
the gas flow noise in the headset.
- R (f) Close cylinder stowage compartment.
- R (g) On CREW OXYGEN panel 435VU, release LO PR SUPPLY pushbutton switch
(OFF position).
- R (h) De-energize the aircraft electrical network (Ref. 24-41-00,
P. Block 301).
- R (j) Close access door.
- R (k) Remove access platform.

3. Leakage Test of the LP Oxygen System for the Crew (with the VARIAN HELITEST Tool)

This procedure lets you find the leakage of a component or part of the crew oxygen system.

A. Reason for the Job

This test must be performed when leaks have been detected in Para. 1 and 2.

WARNING : IN EVENT OF SERIOUS LEAKS, IT IS NECESSARY TO VENTILATE THE AREA
TO PREVENT THE INSTRUMENT FROM SATURATING.

WARNING : OIL AND GREASE PRESENT A FIRE HAZARD WHEN IN CONTACT WITH OXYGEN
THEREFORE TOOLS AND HANDS MUST BE CLEAN.

B. Equipment and Materials

ITEM	DESIGNATION
(1)	Access Platform 2.60 m (8 ft 6 in.)
(2) 969-4200	Oxygen tooling Kit
or	
DET-0X-4200	HELITEST Aero Kit
(3) 969-4000	HELITEST Aero Kit
or	
DET-0X-4200	HELITEST Aero Kit
(4)	Blanking Plugs/Caps
(5) Material No. 05-004	Special Materials (Ref. 20-31-00)
Referenced Procedures	
- 24-41-00, P. Block 301	AC External Power Control
- 35-11-00, P. Block 401	Oxygen Storage Cylinder

EFFECTIVITY: ALL

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- R C. Procedure
- R (1)Job Set-Up
(Ref. Fig. 502)
- R (a)Position access platform at forward cargo compartment door.
- R (b)Open forward cargo compartment door.
- R (c)Open access door (132AZ).
- R (d)Open oxygen storage compartment access door.
- R (e)Check that oxygen supply valve is open.
- R (f)Close manual cylinder valve.
- R (g)Energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
- R (h)Make certain that electronics racks ventilation is correct.
- R (j)Check that the following circuit breaker is closed:

PANEL	SERVICE	IDENT.	LOCATION
22VU	CREW OXYGEN	18HT	208/B28

- R (2)Bleeding
- R (a)On CREW OXYGEN panel 435VU, press LO PR SUPPLY pushbutton switch (ON position).
- R (b)On each mask stowage box, simultaneously press (1 mn approx.) RESET TEST control slide and PRESS TO TEST button on mask regulator.
- R (3)Preparation before the Test
- R (a)Remove the oxygen cylinder (Ref. 35-11-11, P. Block 401).
- R (b)Install and connect the HELITEST Aero kit 969-4000 and the oxygen tooling kit 969-4200 or the HELITEST Aero kit DET-OX-4200.
The tool cylinder contains a gaseous mix with 10 % helium and 90 % nitrogen charged to 1840 psi (127 bars).
- R (c)Supply the oxygen system with the tool cylinder in the normal condition (open the valve of the tool cylinder).
- R 1 On all the oxygen mask stowage boxes:
Press RESET TEST control slide and PRESS TO TEST button on mask regulator a sufficient number of times (to fill the oxygen system with the gaseous mix).
- R (4)Test
- R (a)Calibrate the HELITEST tool in PPM.
- R (b)Do a check for leaks with the leak detector.
- R (c)Measure the values and compare with the table below:
- maximum leak values permitted for equipment and items of the flight compartment oxygen system:

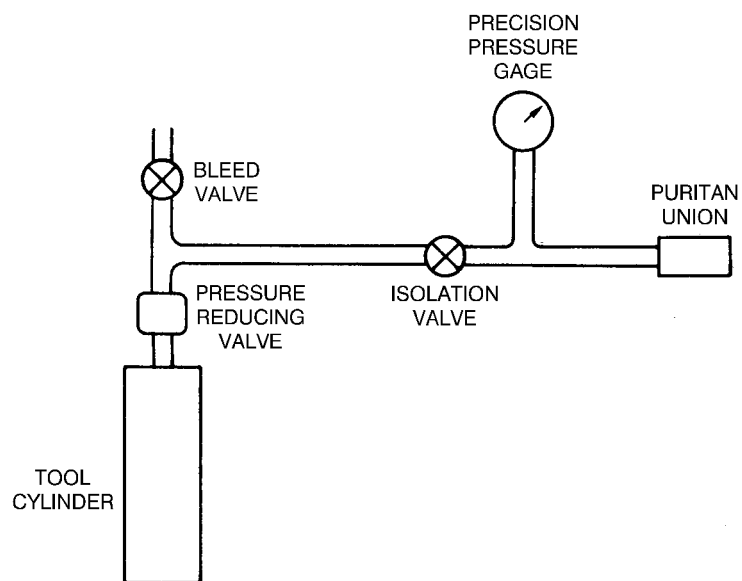
Equipment	Maximum leak permitted with a Mixture of 10 % Helium PPM
Coupling	50
Low Press Solenoid Valve	300
Regulator/Transmitter	300
Low Press Flexible Hose	100
Oxygen Mask Stowage Box	500

EFFECTIVITY: ALL

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Test Installation
Figure 502

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EFFECTIVITY: ALL

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(stowage box closed)

If the values are more than the tolerance value, replace the defective equipment.

- R (5)Close-up
R (a)Bleed the oxygen system
R 1 Close the valve of the tool cylinder.
R 2 On one of the oxygen mask stowage boxes:
Press (1 mn approx.) RESET TEST control slide and PRESS TO TEST
button on mask regulator.
NOTE : Make certain that oxygen cylinder valve is open at the
end of the procedure.
R (b)Disconnect the tool equipment.
R (c)Install the oxygen cylinder (Ref. 35-11-11, P. Block 401).
R (d)Fully open oxygen cylinder valve.
R (e)Close the oxygen compartment access door.
R (f)On each mask stowage box simultaneously press (1 mn approx.) RESET TEST
control slide and PRESS TO TEST button on mask regulator (to fill the
system with oxygen).
R (g)On CREW OXYGEN panel 435VU release LO PR SUPPLY pushbutton switch
(OFF position).
R (h)De-energize the aircraft electrical network (Ref. 24-41-00,
P. Block 301).
R (j)Make certain that working area is clean and clear of tools and
miscellaneous items of equipment.
R (k)Close the access door.
R (l)Remove the access platform.

EFFECTIVITY: ALL

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AIRCRAFT MAINTENANCE MANUAL

CREW OXYGEN SYSTEM - INSPECTION/CHECK

1. Reason for the Job

- A. To remove and install regulator/HP transmitter for workshop check.

2. Equipment and Materials

ITEM

DESIGNATION

Referenced Procedure

- 35-11-31, P. Block 401

Oxygen HP Transmitter/Pressure Regulator

3. Procedure

- R A. Replace Pressure Regulator/HP Transmitter for Workshop Check.
 (1) Remove Pressure Regulator/HP Transmitter (Ref. AMM 35-11-31, P. Block 401).
R (2) Send HP Transmitter/Pressure Regulator to overhaul facility to do a
R functional check.
 (3) Install Pressure Regulator/HP Transmitter (Ref. AMM 35-11-31, P. Block 401).

EFFECTIVITY: ALL

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OXYGEN STORAGE - DESCRIPTION AND OPERATION

1. Oxygen High Pressure Source

(Ref. Fig. 001)

The flight crew oxygen is supplied from a high pressure oxygen cylinder. The main characteristics are as follows :

- capacity 3255 l (115 cu. ft.).
- nominal charge : 127 bars (1850 psig)

It is made up of a valve assembly including :

- a slow opening valve, the seats of which are of the metal/metal type, thus avoiding ignitions (explosions)
- a direct reading pressure gauge, indicating cylinder pressure, with valve open or closed.
- an overpressure safety port with a discharge indicator (frangible disc) limiting the cylinder pressure to 172.4 - 186.2 bars (2500 - 2700 psig). Oxygen is discharged overboard via a safety system.
- a high pressure oxygen bleed port fitted with a special union.

This cylinder is located in the avionics compartment between FR 4 and FR 7 perpendicularly to the aircraft centerline. It is placed in a cradle and secured by two quick disconnect metallic clamps on the cylindrical part. Attachments are designed to resist crash loads considered to be 10 g in all directions.

2. High and Low Pressure Supply

(Ref. Fig. 002)

(Ref. Fig. 003)

(1) A HP regulator/transmitter assembly is directly connected to the cylinder via the special female coupling which is part of it.

This configuration limits the high pressure at the inlet coupling and at the relevant stage of the regulator.

The HP regulator/transmitter is composed of two stages :

(a) The high pressure stage including :

- . A high pressure detection by an integrated transducer sending an electrical signal to a remote indicator located on the control and monitoring panel in the flight compartment.

(b) The low pressure stage including :

- . A downstream pressure regulation at the nominal value of 5.38 ± 0.55 bars (78 ± 8 psig) for a flow of 300 liters/mn and for an upstream pressure of 127 bars (1850 psig.)

NOTE : The absolute regulated pressure will not exceed 6.48

bars (94 psig) for all flow or pressure variations within the following limits :

- . flow variation : 10 to 300 l/mn.
- . pressure variation : 6.9 to 140 bars (100 to 2025 psig).
- . a port with an integrated pressure relief valve limiting the supply pressure as follows
 - . beginning of opening : $8 + 0, - 0.5$ bars ($120 + 0, - 7$ psig)
 - . maximum overpressure 12 bars (174 psig) for a flow of 300 liters/mn.

The oxygen released by the valve is discharged overboard via a safety

EFFECTIVITY: ALL

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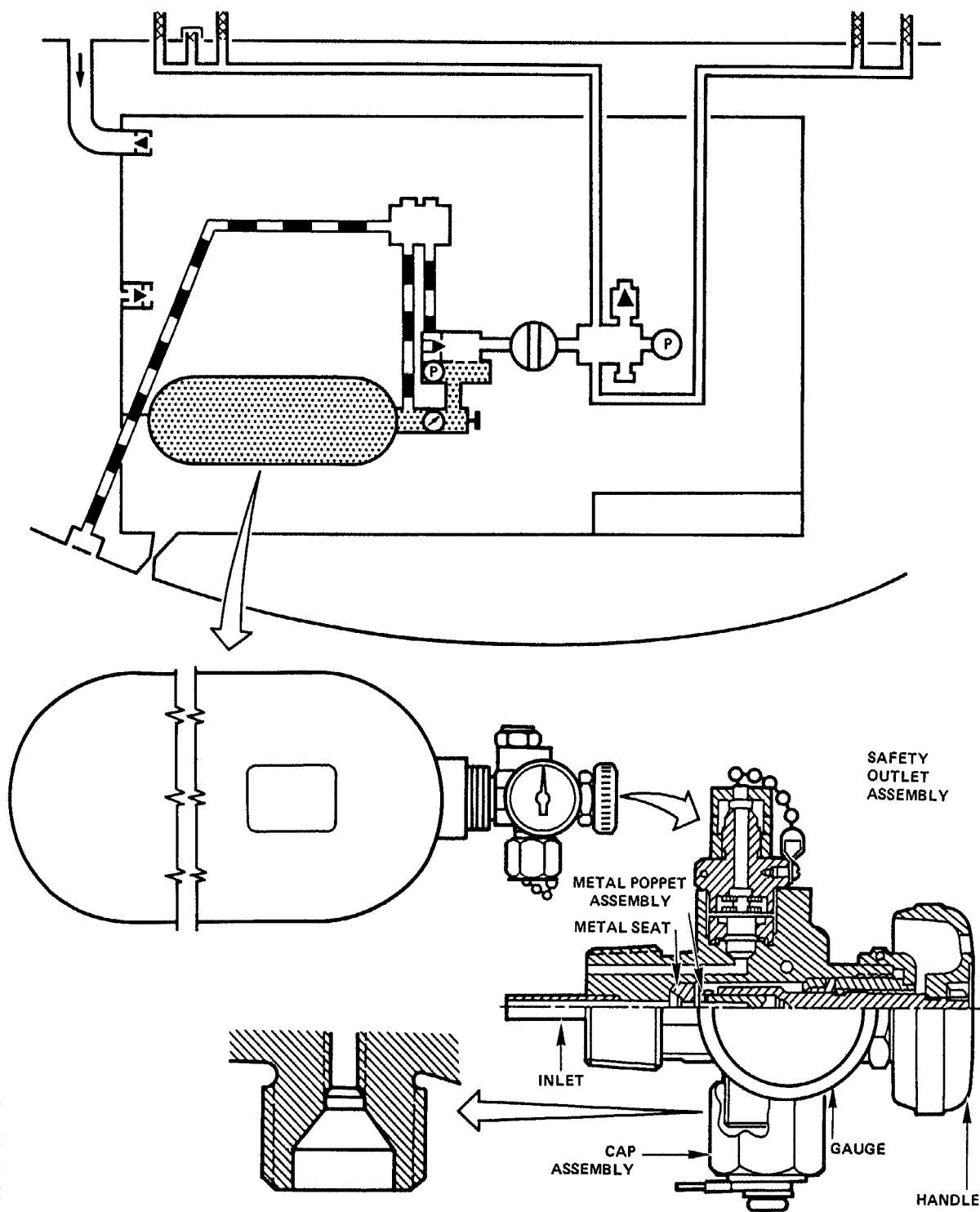
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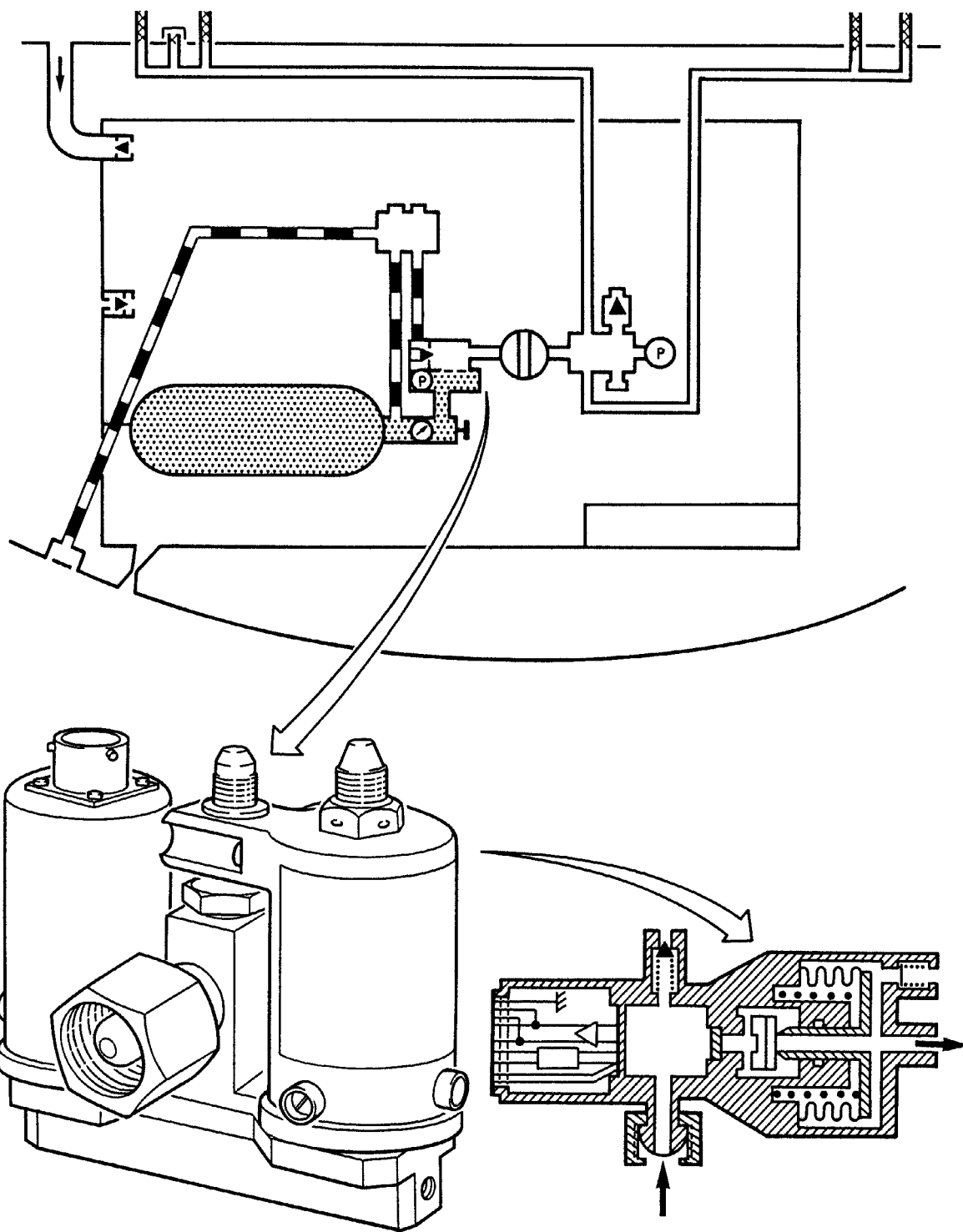
Oxygen Cylinder
Figure 001

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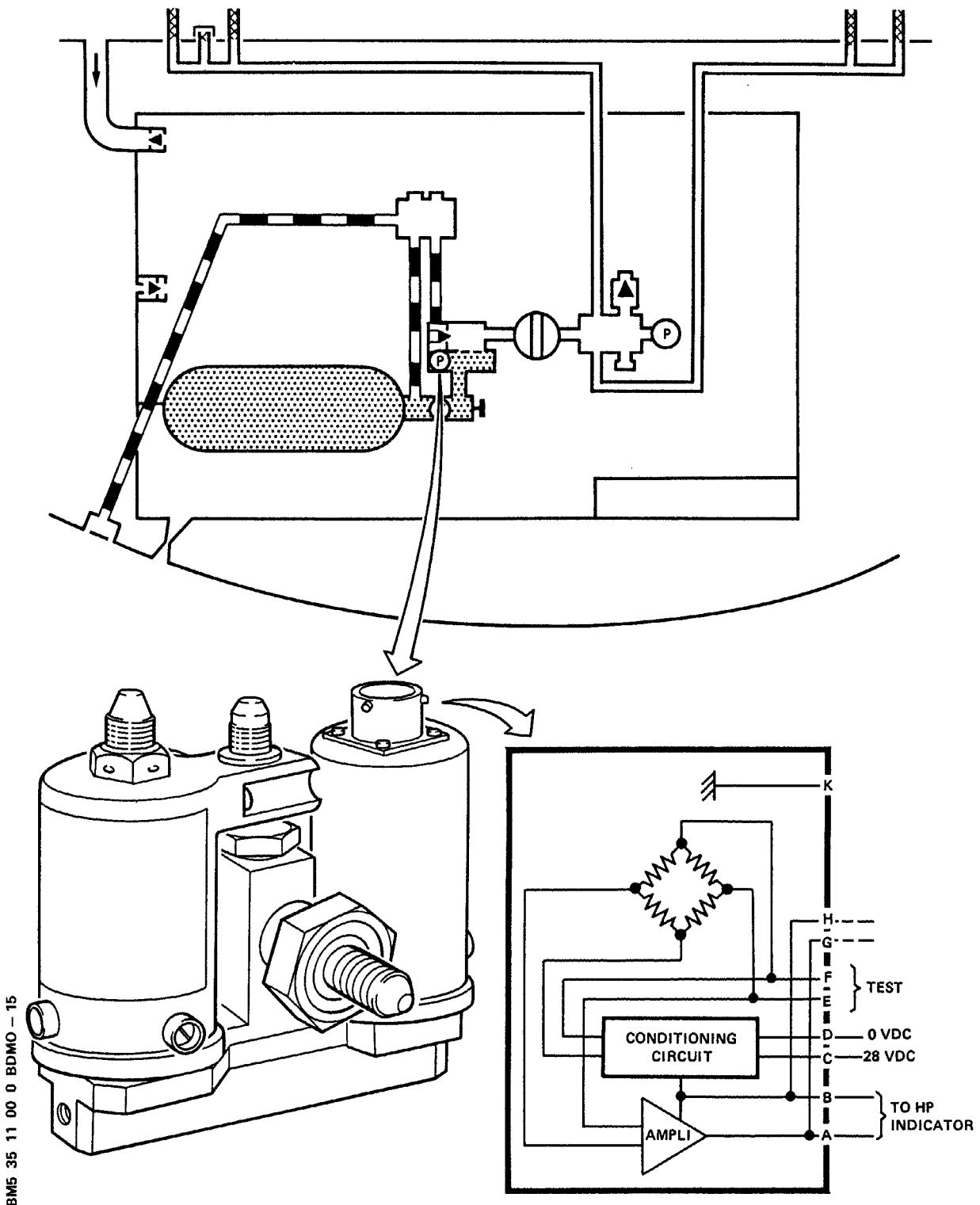
Pressure Regulator
Figure 002

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HP Pressure Transmitter
Figure 003

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system.

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3. High and Low Pressure Safety

(Ref. Fig. 004)

The cylinder overpressure safety port and the low pressure stage overpressure safety port of the HP transmitter/pressure regulator/HP indicator are connected to a safety discharge manifold via flexible hoses. The discharge manifold includes drop forged adapters and a plenum chamber. To this manifold is connected a pipe at one end of which is mounted a discharge indicator level with fuselage wall.

The discharge indicator is made of a green plastic blow out disc, visible from outside the aircraft, which is ejected from its housing, when submitted to any pressure exceeding 1.38 bars (20 psig), thus revealing the yellow color inside the indicator body.

4. Supply of Oxygen Source

The oxygen source is supplied by replacing the oxygen cylinder.

To perform cylinder replacement it is necessary to release the supports and disconnect at the level of cylinder :

- . the overpressure safety line
- . the HP transmitter/regulator after isolation of the HP system.

These cylinder removal and withdrawal operations are facilitated by the flexible hoses. Special precautions must be taken ; in particular, the free ends of the lines must be blanked with protective caps pending installation of the spare cylinder.

5. Partially-Sealed Storage Compartment

Located in the avionics compartment, between FR 4 and FR 7, aligned with and perpendicular to the aircraft centerline this partially-sealed compartment is flame resistant. It can be reached from the avionics compartment through an access door secured by quick-disconnect screws. This door is equipped with two windows enabling the cylinder pressure gauge to be read.

These windows are protected by screwed covers. The compartment is ventilated in flight by air from the cabin which is discharged overboard through a venturi.

The ventilation check valve enables a slight negative pressure (≤ 5 mbars) (0.0725 psig) to be maintained in normal ventilation conditions in the compartment.

The relief valve enables the compartment overpressure to be limited to 60 mbars (0.87 psig).

This ventilation enables safety to be maintained at an acceptable level in the event of an accidental leakage which might occur in the generation line.

EFFECTIVITY: ALL

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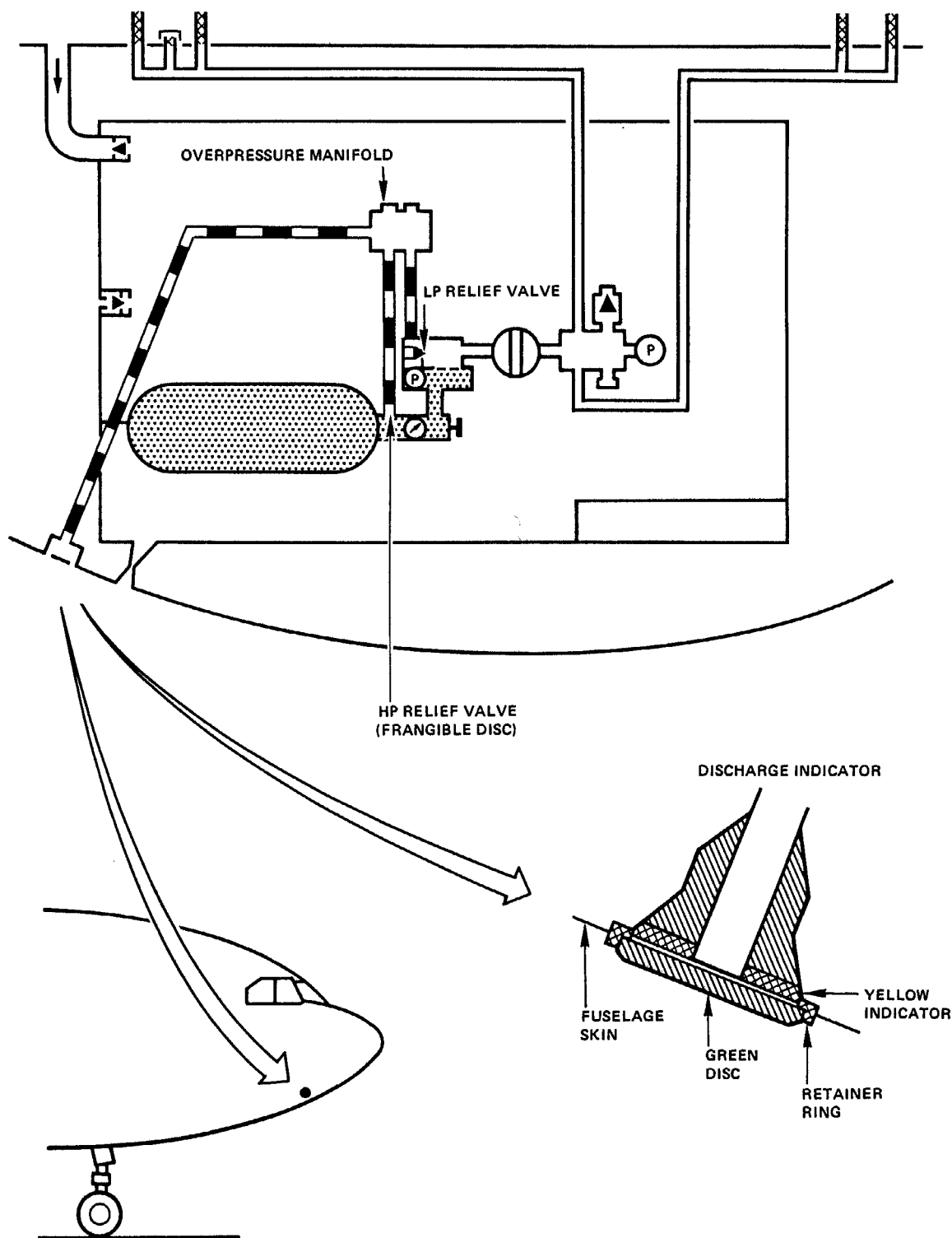
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High and Low Pressure Safety
Figure 004

EFFECTIVITY: ALL

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OXYGEN STORAGE - INSPECTION/CHECK

1. Reason for the Job

- A. To check the condition of the oxygen circuits in the oxygen storage compartment.

2. Equipment and Materials

ITEM	DESIGNATION
A.	Access Platform 2 m (6 ft 7 in.)

3. Procedure

WARNING : PERSONNEL IN CHARGE OF CARRYING OUT THE ACTIONS BELOW MUST BE AWARE OF THE RISKS INVOLVED IN HANDLING OXYGEN WHICH ENHANCES COMBUSTION IN THE PRESENCE OF FUEL, AND BECOMES EXPLOSIVE IN THE PRESENCE OF HYDROCARBONS, (FUELS, LUBRICANTS).

A. Job Set-up

- (1)Position access platform.
- (2)Open access door 121BL.
- (3)Open oxygen storage compartment access door.

B. Inspection/Check of Oxygen Storage Compartment:

- (1)Check that cylinder pressure is in normal range and sufficient for the next flight.
- (2)Check attachment of cylinders to their cradle.
- (3)Check attachment of regulator to each cylinder.
- (4)Check attachment of rigid lines to aircraft structure and attachment of check valves to storage compartment structure.
- (5)Outside the aircraft, check that green overpressure indicator disc is visible.

C. Not applicable

D. Electrical circuit

- (1)Check external condition of electrical connectors and cable looms in storage compartment.

E. Close-up

- (1)Close oxygen compartment access door.
- (2)Close access door 121BL.
- (3)Remove access platform.

EFFECTIVITY: ALL

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AIRCRAFT MAINTENANCE MANUAL

OXYGEN STORAGE COMPARTMENT VENTILATION VENTURI CLEANING/PAINTING

WARNING : OIL AND GREASES PRESENT A FIRE HAZARD WHEN IN CONTACT WITH OXYGEN, THEREFORE TOOLS AND HANDS MUST BE CLEAN.

1. Reason for the Job

To eliminate any trace of dirt in the ventilation venturi of the oxygen storage compartment.

2. Equipment and Materials

ITEM	DESIGNATION
A.	Access Platform 2 m (6 ft 7 in.)
B. Material No. 11-010	Cleaning Agent

3. Procedure

(Ref. Fig. 701)

WARNING : PERSONNEL IN CHARGE OF CARRYING OUT THE ACTIONS BELOW MUST BE AWARE OF THE RISKS INVOLVED IN HANDLING OXYGEN, WHICH ENHANCES COMBUSTION IN THE PRESENCE OF FUEL AND BECOMES EXPLOSIVE IN THE PRESENCE OR HYDROCARBON (FUELS, LUBRICANTS).

A. Job Set-Up

- (1) Position access platform.
- (2) Open access door 121BL.
- (3) Open oxygen storage compartment access door.

B. Cleaning

- (1) Slightly loosen nuts (3) and (4).
- (2) Loosen nut (7).
- (3) Remove venturi tube (6) by fully loosening nuts (3) and (4).
- (4) Clean inside of venturi tube (6), coupling (2) and venturi (5) with Material No. 11-010, using a bottle-cleaning brush.
- (5) Dry off with filtered compressed air.
- (6) Clean screen (1) and oxygen storage compartment using a vacuum cleaner.

C. Installation

- Install venturi tube (6) by slightly tightening nuts (3) and (4).
- Tighten nut (7).
- Fully tighten nuts (3) and (4).

D. Close-Up

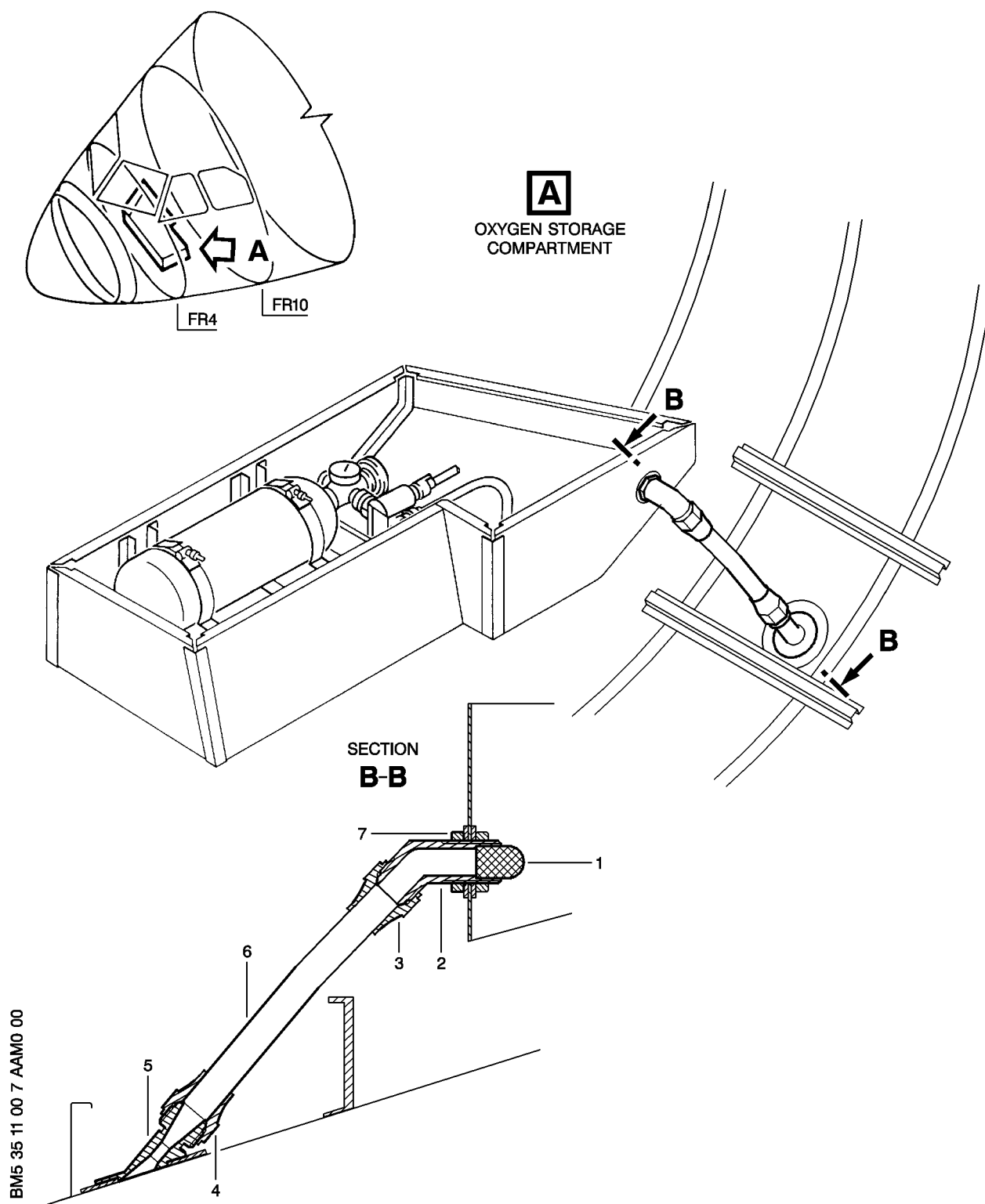
- (1) Close oxygen storage compartment door.
- (2) Close access door 121BL.
- (3) Remove access platform.

EFFECTIVITY: ALL

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Oxygen Compartment Ventilation Venturi
Figure 701

EFFECTIVITY: ALL

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OXYGEN STORAGE CYLINDER - REMOVAL/INSTALLATION

1. Equipment and Materials

ITEM	DESIGNATION

A.	Access Platform 2.60 m (8 ft. 6 in.)
B. Material No. 05-003B	Special Materials (Ref. 20-31-00)
C. Material No. 05-004	Special Materials (Ref. 20-31-00)
R D.	Torque Wrench - 1 to 10 m.daN (8 to 75 lbf.ft.)
E.	Circuit Breaker Safety Clips
F.	Sealing Ring - Puritan

2. Procedure

WARNING : PERSONNEL IN CHARGE OF CARRYING OUT THE ACTIONS BELOW MUST BE AWARE OF THE RISKS INVOLVED IN HANDLING OXYGEN WHICH ENHANCES COMBUSTION IN THE PRESENCE OF FUEL AND BECOMES EXPLOSIVE IN THE PRESENCE OF HYDROCARBONS, FUELS, LUBRICANTS.

A. Job Set-Up

WARNING : BEFORE ANY ACTION, PERSONNEL SHOULD CLEAN TOOLS AND ENSURE THAT THEIR HANDS ARE CLEAN TO AVOID CONTAMINATION.

- (1)Position access platform at forward cargo compartment door.
- (2)Open forward cargo compartment door.
- (3)Open access door (132AZ).
- (4)Open cylinder storage compartment access door.
- (5)Check that oxygen supply valve is open.
- (6)Close cylinder valve.
- (7)Bleed oxygen systems using a crew mask and operating the RESET TEST control slide until LP indicator reading is at its lowest.
- (8)Open, safety and tag the following circuit breaker.

-----		-----	
PANEL	SERVICE	IDENT.	LOCATION
-----		-----	
22VU	OXYGEN/CREW	18HT	208/B28

B. Removal

(Ref. Fig. 401)

CAUTION : WHEN DISASSEMBLED TEMPORARILY ANY PIPE OR UNIT SHOULD HAVE THE ENDS PROTECTED BY A DRY AND CLEAN METAL OR PLASTIC PLUG, AND BE PLACED IN A SEALED VINYL BAG.

On oxygen cylinder

- (1)Remove pressure regulator (4) by loosening nut (5).
- (2)Remove discharge indicator line (2). Discard sealing ring (3).
- (3)Loosen nuts (8) and remove washers (7) on cylinder securing clamps (6).
- (4)Remove cylinder (1).

C. Preparation of Replacement Component

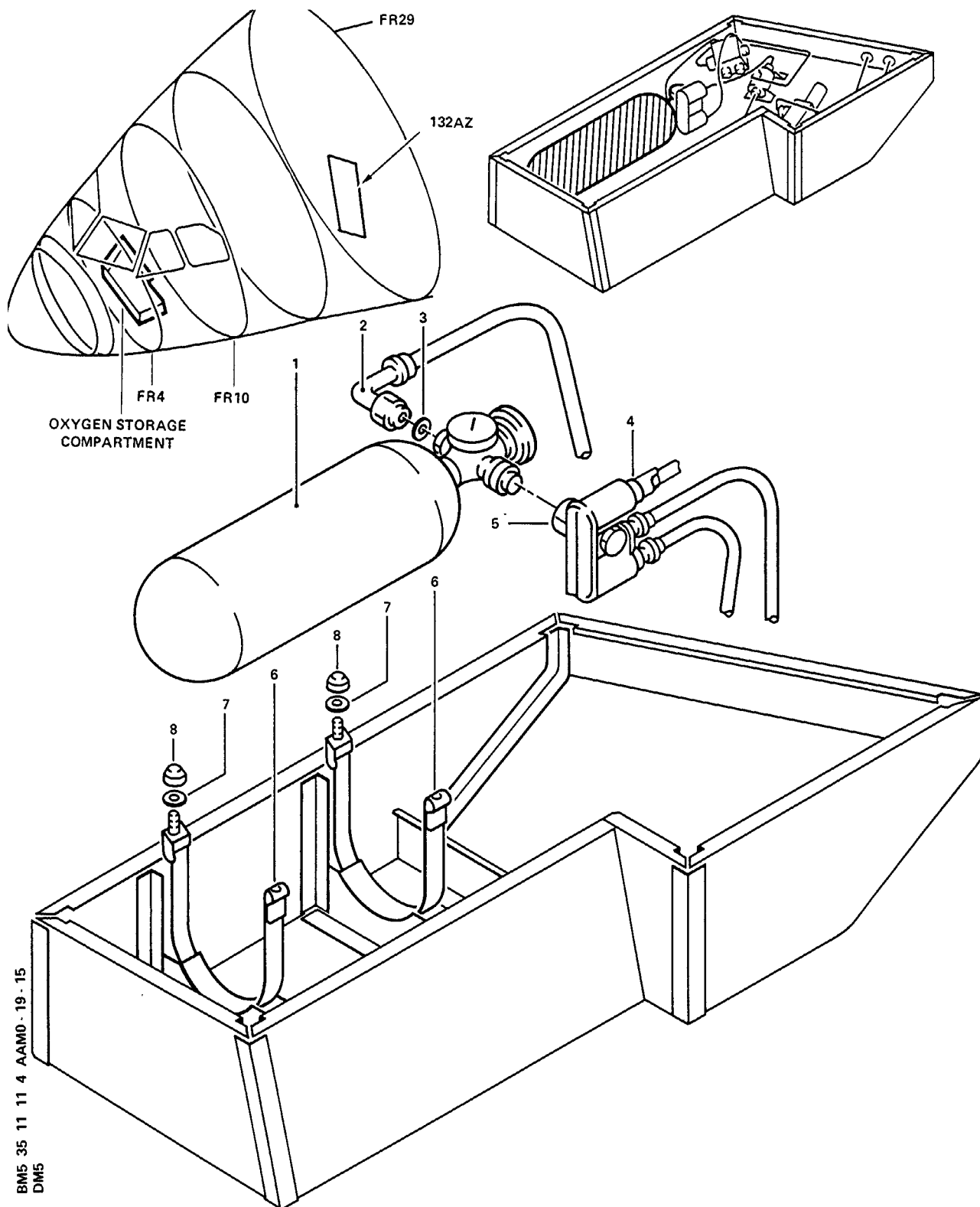
- (1)Make certain that date limit has not been exceeded.
- (2)Visually check pressure gage and union threads.

EFFECTIVITY: ALL

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Oxygen Cylinder
Figure 401

EFFECTIVITY: ALL

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D. Installation

CAUTION : NO COMPOUND, OTHER THAN SPECIAL MATERIAL No.05-003B MUST BE USED ON NUT THREADS OR ON THE FLARED PORTION OF THE LINE. THIS COMPOUND SHOULD BE USED SPARINGLY ON FIRST THREE MALE THREADS.

NUTS SHOULD BE TIGHTENED TO THE REQUIRED TORQUE USING A TORQUE WRENCH ONLY.

- (1) Place cylinder (1) carefully on its cradle supports.
- (2) Connect pressure regulator (4). Do not fully tighten nut (5) at this stage.
- (3) Install new sealing ring (3) and connect discharge indicator line (2). Do not fully tighten nut at this stage.
- (4) Install cylinder securing clamps (6). Install washers (7) and tighten nuts (8).
- (5) Tighten pressure regulator nut (5) and TORQUE to between 7.5 and 8 m.daN (55.30 and 58.99 lbf.ft.).
- (6) Tighten discharge indicator line (2) union nut and TORQUE to between 1.8 and 2m.daN (159 and 177lbf.in.).

R
R

E. Tests

- (1) Apply special material No.05-004 to each union.
- (2) Open cylinder valve very slowly, 3 to 4 turns.
- (3) Wait approximately 90 seconds for system pressure to stabilize.
- (4) Fully open valve.
- (5) Check cylinder pressure.
- (6) Make certain there is no leakage.
- (7) Wipe off special material No.05-004 from each union.

F. Close-Up

- (1) Make certain that working area is clean and clear of tools and miscellaneous items of equipment.
- (2) Position and secure access door to cylinder storage compartment.
- (3) Close access door between forward cargo compartment and avionics compartment (132AZ).
- (4) Close forward cargo compartment door.
- (5) Close circuit breaker 18HT.
- (6) Remove access platform.

EFFECTIVITY: ALL

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AIRCRAFT MAINTENANCE MANUAL

LOW PRESSURE TRANSMITTER (31HT) - REMOVAL/INSTALLATION

WARNING : OILS AND GREASES PRESENT A FIRE HAZARD WHEN IN CONTACT WITH OXYGEN, THEREFORE TOOLS AND HANDS MUST BE CLEAN.

1. Equipment and Materials

ITEM	DESIGNATION
A.	Access Platform, 2.60 m (8 ft. 6 in.)
B.	Circuit Breaker Safety Clip and Tag
C.	Torque Wrench - 4 to 6 m.daN (29.5 to 44 lbf.ft.)
D.	Blanking Caps
R E. Material No. 05-003B	Special Materials (Ref. 20-31-00)
F. Material No. 05-004	Special Materials (Ref. 20-31-00)
G. Material No. 05-022	Special Materials (Ref. 20-31-00)
Referenced Procedure - 24-41-00, P. Block 301	
	AC External Power Control

2. Procedure

A. Job Set-Up

- (1) Position access platform.
- (2) Connect electrical ground power unit and energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
- (3) Make certain that electronics racks ventilation is correct.
- (4) Open forward cargo compartment door.
- (5) Open access door 132AZ.
- (6) Open oxygen cylinder storage compartment access door.
- (7) Check that oxygen supply valve is open.
- (8) Close cylinder valve.
- (9) Bleed oxygen systems, using a crew mask and operating the RESET TEST control slide until LP indicator reading is at its lowest.
- (10) De-energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
- (11) Open, safety and tag the following circuit breaker :

PANEL	SERVICE	IDENT.	LOCATION
22VU	OXYGEN/CREW	18HT	208/B28

B. Removal

(Ref. Fig. 401)

- (1) Disconnect electrical connector (1) from LP transmitter (2).
- (2) Unscrew LP transmitter (2) from manifold (3).
- (3) Install blanking caps.

C. Preparation of Replacement Component

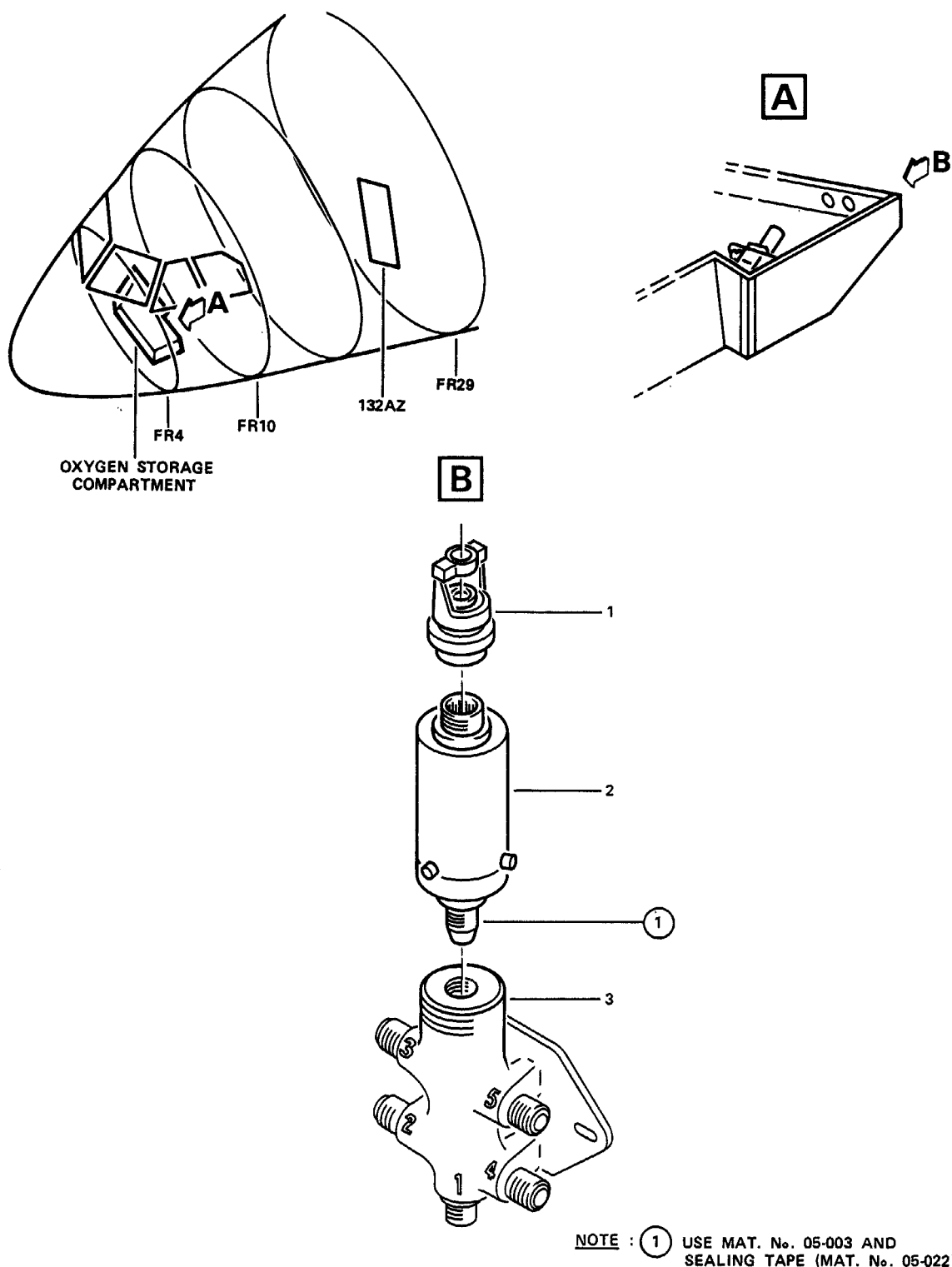
- (1) Remove blanking caps.
- (2) Remove and remaining sealing tape from threaded areas.
- R (3) Apply special Material No. 05-003B around thread of LP transmitter (2).

EFFECTIVITY: ALL

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Low Pressure Transmitter (31HT)
Figure 401

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- (4) Wrap 1 to 1 1/2 turns of sealing tape (Mat. No. 05-022) around thread of LP transmitter (2).

D. Installation

(Ref. Fig. 401)

- (1) Install LP transmitter (2) in manifold (3).
(2) TORQUE connector of LP transmitter (2) to between 5.08 m.daN (37.4 lbf.ft.) and 5.65 m.daN (41.6 lbf.ft.).
(3) Connect electrical connector (1) to LP transmitter (2).

E. Test

- (1) Open cylinder valve very slowly, 3 to 4 turns.
(2) Wait approximately 90 seconds for system pressure to stabilize.
(3) Fully open valve.
(4) Apply leak test solution (Mat. No. 05-004) to connection of the low pressure transmitter and check for leaks.
NOTE : No leakage is permissible.
(5) Wipe off leak test solution.
(6) Energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
(7) Remove safety clip and tag and close circuit breaker 18HT.
(8) On oxygen panel 435VU
- press LO PR SUPPLY pushbutton switch
- make certain that LP gage pointer stabilizes in green band.

F. Close-Up

- (1) On OXYGEN panel 435VU
- release LO PR SUPPLY pushbutton switch.
(2) De-energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
(3) Make certain that working area is clean and clear of tools and miscellaneous items of equipment.
(4) Close access door to cylinder storage compartment.
(5) Close access door 132AZ.
(6) Close forward cargo compartment door.
(7) Remove access platform.

EFFECTIVITY: ALL

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AIRCRAFT MAINTENANCE MANUAL

DISTRIBUTION MANIFOLD (35R108) - REMOVAL/INSTALLATION

WARNING : OILS AND GREASES PRESENT A FIRE HAZARD WHEN IN CONTACT WITH OXYGEN, THEREFORE TOOLS AND HANDS MUST BE CLEAN.

1. Equipment and Materials

ITEM	DESIGNATION
A.	Access Platform, 2.60 m (8 ft. 6 in.)
B.	Circuit Breaker Safety Clip and Tag
C.	Torque Wrench, 0.5 to 0.8 m.daN (44 to 71 lbf.in)
D.	Blanking Caps/Plugs
E. Material No. 05-004	Special Materials (Ref. 20-31-00)
Referenced Procedures	
- 24-41-00, P. Block 301	AC External Power Control
- 35-11-23, P. Block 401	Low Pressure Transmitter

2. Procedure

A. Job Set-Up

- (1) Position access platform.
- (2) Connect electrical ground power unit and energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
- (3) Make certain that electronics racks ventilation is correct.
- (4) Open forward cargo compartment door.
- (5) Open access door 132AZ.
- (6) Open oxygen cylinder storage compartment access door.
- (7) Check that oxygen supply valve is open.
- (8) Close cylinder valve.
- (9) Bleed oxygen systems using a crew mask and operating the RESET TEST control slide until LP indicator reading is at its lowest.
- (10) De-energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
- (11) Open, safety and tag the following circuit breaker :

PANEL	SERVICE	IDENT.	LOCATION
22VU	OXYGEN/CREW	18HT	208/B28

B. Removal

(Ref. Fig. 401)

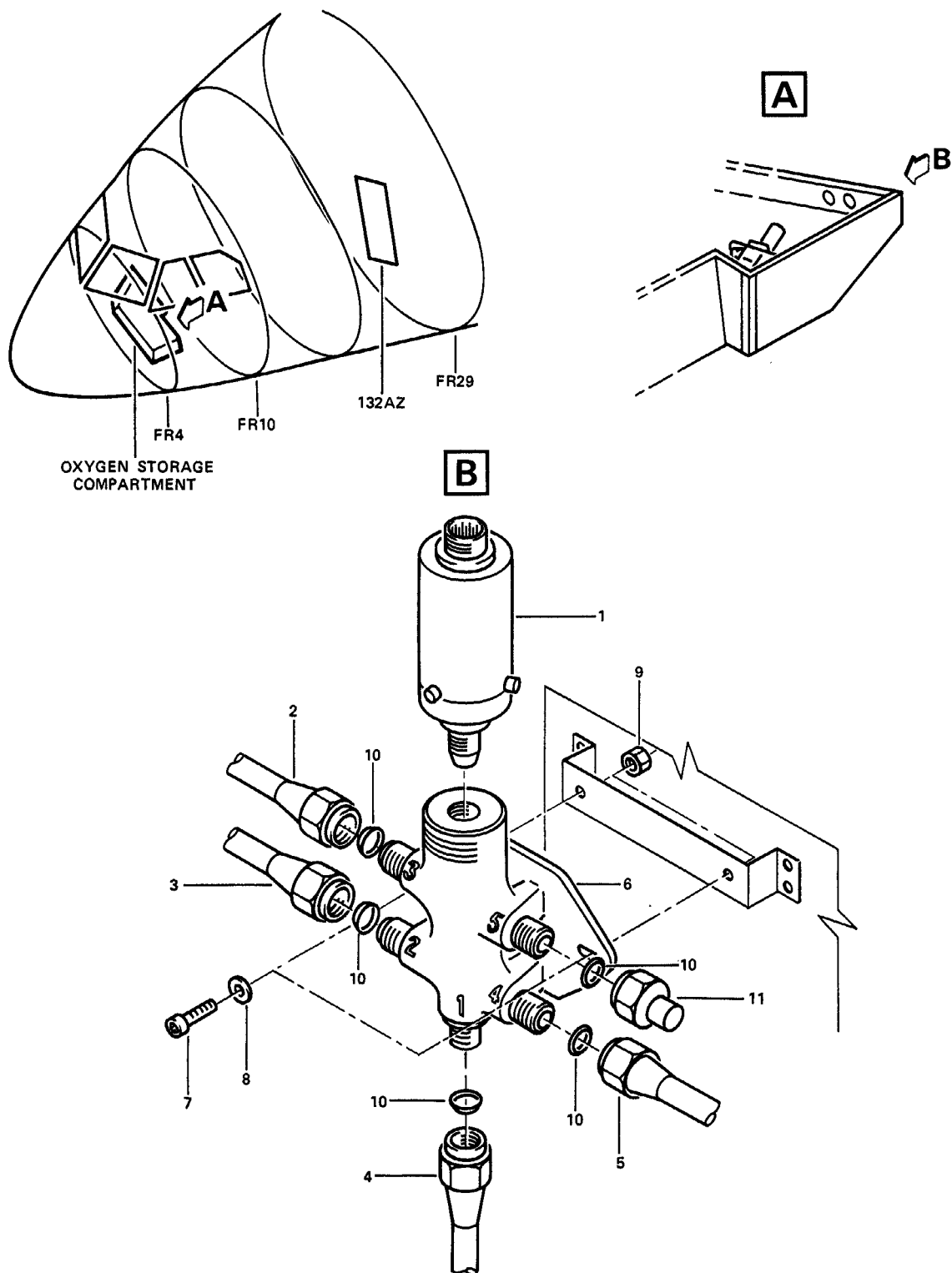
- (1) Remove low-pressure transmitter (1) (Ref. 35-11-23, P. Block 401).
 - (2) Disconnect pipes (2), (3), (4), (5) from distribution manifold (6).
 - (3) Remove screws (7), washers (8) and nuts (9).
 - (4) Remove distribution manifold (6), discard seals (10).
 - (5) Remove and retain, cap assembly (11) from distribution manifold (6), discard seal (10).
- NOTE** : Port is numbered (5) on the manifold body.
- (6) Install blanking caps/plugs on pipes (2), (3), (4), (5) and distribution

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Distribution Manifold (35R108)
Figure 401

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manifold (6).

C. Preparation of Replacement Component

(Ref. Fig. 401)

- (1) Remove blanking cap/plug and install retained cap assembly (11) on new seal (10) of replacement distribution manifold.

NOTE : Port is numbered (5) on the manifold body.

- (2) **TORQUE** cap assembly (11) to between 0.56 and 0.71 m.daN (50 and 63 lbf.in.).

D. Installation

(Ref. Fig. 401)

- (1) Position distribution manifold (6) and secure with screws (7), washers (8) and nuts (9).

- (2) Remove blanking caps/plugs and connect pipes (2), (3), (4), (5) with new seals (10) to the distribution manifold (6).

- (3) **TORQUE** nuts of pipes (2), (3), (4), (5) to between 0.56 and 0.71 m.daN (50 and 63 lbf.in.).

- (4) Install low-pressure transmitter (1) (Ref. 35-11-23, P. Block 401).

E. Test

- (1) Open cylinder valve very slowly, 3 to 4 turns.

- (2) Wait approximately 90 seconds for system pressure to stabilize.

- (3) Fully open valve.

- (4) Apply leak test solution (Mat. No. 05-004) to all connections of the distribution manifold, and check for leaks.

NOTE : No leakage is permissible.

- (5) Wipe off leak test solution.

- (6) Energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).

- (7) Remove safety clip and tag and close circuit breaker 18HT.

- (8) On oxygen panel 435VU:

- press LO PR SUPPLY pushbutton switch
- make certain that LP gage pointer stabilizes in green band.

F. Close-Up

- (1) On oxygen panel 435VU:

- release LO PR SUPPLY pushbutton switch.

- (2) De-energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).

- (3) Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

- (4) Close access door to cylinder storage compartment.

- (5) Close access door 132AZ.

- (6) Close forward cargo compartment door.

- (7) Remove access platform.

EFFECTIVITY: ALL

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AIRCRAFT MAINTENANCE MANUAL

OXYGEN HP TRANSMITTER/PRESSURE REGULATOR - REMOVAL/INSTALLATION

1. Equipment and Materials

ITEM	DESIGNATION
A.	Access Platform 2.60m (8 ft.6 in.)
R B. Material No. 05-003B	Special Materials (Ref. 20-31-00)
C. Material No. 05-004	Special Materials (Ref. 20-31-00)
D.	Torque Wrench 0 to 6 m.daN (0 to 44 lbf.ft.)
E.	Circuit Breaker Safety Clips
F.	Sealing Ring - Puritan

2. Procedure

WARNING : PERSONNEL IN CHARGE OF CARRYING OUT THE ACTIONS BELOW MUST BE AWARE OF THE RISKS INVOLVED IN HANDLING OXYGEN, WHICH ENHANCES COMBUSTION IN THE PRESENCE OF FUEL, AND BECOMES EXPLOSIVE IN THE PRESENCE OF HYDROCARBONS (FUELS, LUBRICANTS).

A. Job Set-Up

WARNING : BEFORE ANY ACTION, PERSONNEL SHOULD CLEAN TOOLS AND ENSURE THAT THEIR HANDS ARE CLEAN TO AVOID CONTAMINATION.

- (1)Position access platform at forward cargo compartment door.
- (2)Open forward cargo compartment door.
- (3)Open access door 132AZ.
- (4)Open oxygen cylinder storage compartment access door.
- (5)Check that oxygen supply valve is open.
- (6)Close cylinder valve.
- (7)Bleed oxygen systems using a crew mask and operating the RESET TEST control slide until LP indicator reading is at its lowest.
- (8)Open, safety and tag the following circuit breaker :

PANEL	SERVICE	IDENT.	LOCATION
22VU	OXYGEN/CREW	18HT	208/B28

B. Removal

CAUTION : WHEN DISASSEMBLED TEMPORARILY, ANY PIPE OR UNIT SHOULD HAVE THE ENDS PROTECTED BY A DRY AND CLEAN METAL OR PLASTIC PLUG, AND BE PLACED IN A SEALED VINYL BAG.

(Ref. Fig. 401)

- (1)Disconnect LP discharge indicator line (4). Discard sealing ring.
- (2)Disconnect LP distribution line (5). Discard sealing ring.
- (3)Disconnect HP transmitter electrical connector (3)
- (4)Disconnect cylinder HP transmitter/pressure regulator (2) by loosening nut (1)
- (5)Remove HP transmitter/pressure regulator (2).

C. Installation

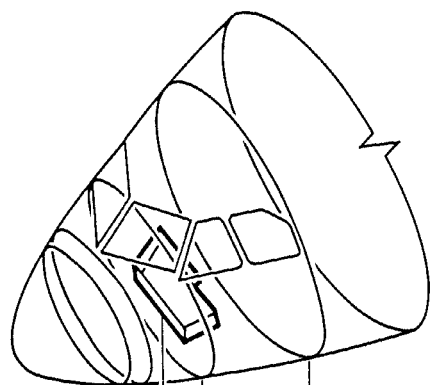
R **CAUTION** : NO COMPOUND, OTHER THAN MATERIAL No.05-003B MUST BE USED ON NUT THREADS OR ON THE FLARED PORTION OF THE TUBE.

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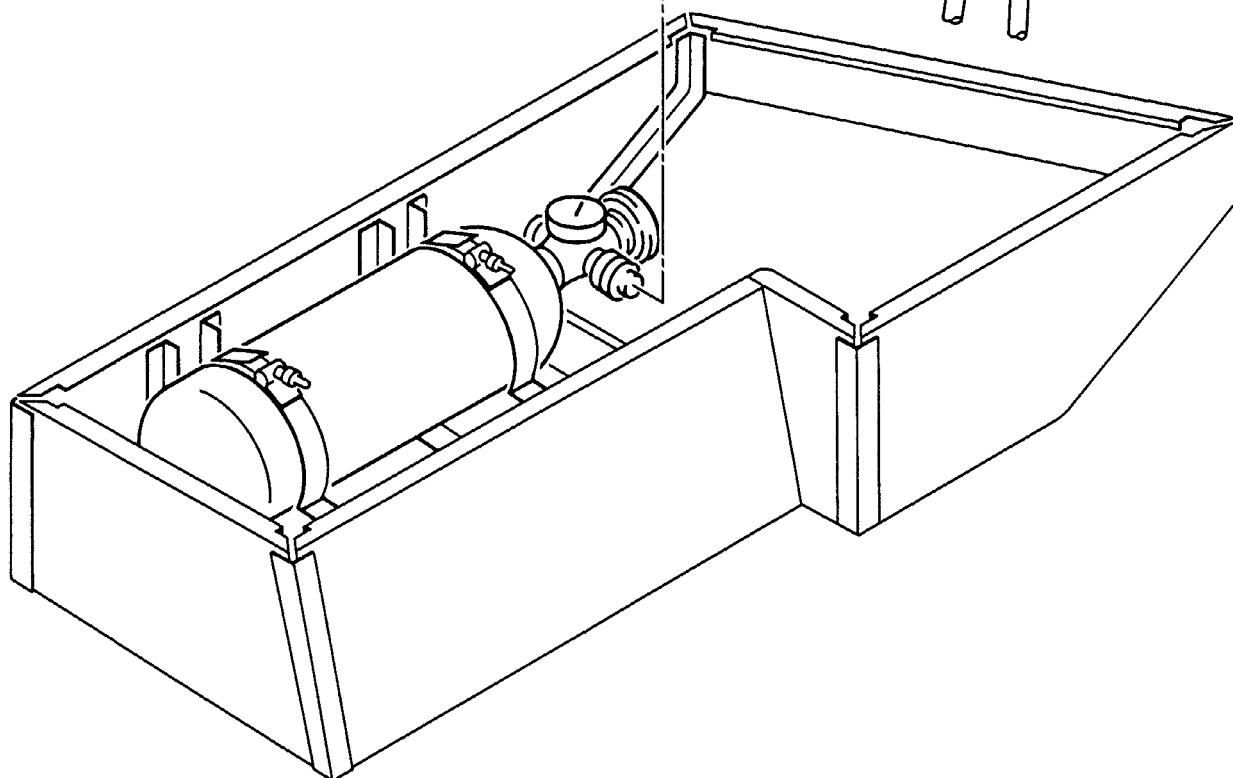
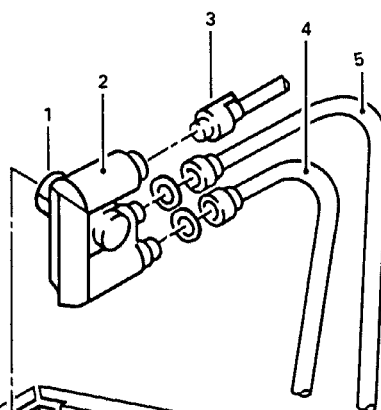
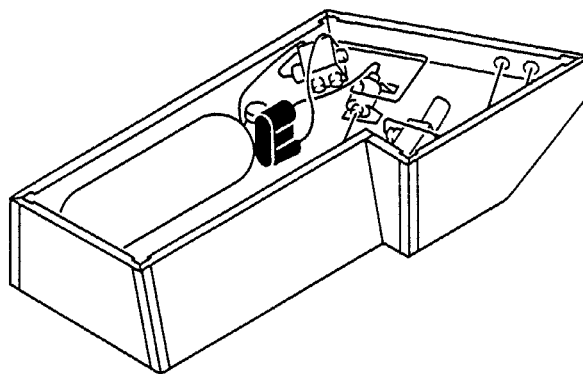
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OXYGEN STORAGE
COMPARTMENT



HP Transmitter/Pressure Regulator
Figure 401

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THIS COMPOUND SHOULD BE USED SPARINGLY ON ALL FIRST THREE MALE THREADS.

(Ref. Fig. 401)

- R
- (1) Connect HP transmitter/pressure regulator (2) to cylinder tighten nut (1) and TORQUE to between 7.5 and 8 m.daN (55.37 and 59 lbf.ft.).
 - (2) Install new sealing ring at each union and connect LP distribution line (5)
 - (3) Connect pressure transmitter (3) electrical connector and LP discharge indicator line (4)
 - (4) Tighten union nuts on these lines and TORQUE to between 2.03 and 2.26 m.daN (14.8 and 16.4 lbf.ft.).

D. Test

- (1) Apply material No.05-004 to each union.
- (2) Open cylinder valve very slowly 3 to 4 turns.
- (3) Wait approximately 90 seconds for system pressure to stabilize.
- (4) Fully open valve.
- (5) Check for leakage.
- (6) Wipe off material No.05-004 from each union.

E. Close-Up

- (1) Make certain that oxygen storage compartment is clean and clear of tools and miscellaneous items of equipment.
- (2) Position and secure access door to oxygen storage compartment.
- (3) Close access door between forward cargo compartment and avionics compartment (132AZ).
- (4) Close forward cargo compartment door.
- (5) Close circuit breaker 18HT.
- (6) Remove access platform.

EFFECTIVITY: ALL

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AIRCRAFT MAINTENANCE MANUAL

OXYGEN DISTRIBUTION - DESCRIPTION AND OPERATION

1. Description

(Ref. Fig. 001)

(Ref. Fig. 002)

A. Low Pressure Distribution in the Compartment

A flexible hose connected to the bleed port of the HP transmitter/regulator assembly, ensures a connection to a rigid line on which are mounted :

A supply solenoid valve which enables the downstream distribution system to be supplied or cut off by direct action of the crew on the control and monitoring panel in the flight compartment.

(Ref. Fig. 002)

Electrical supply to the solenoid valve is only applied for a fraction of a second corresponding to the opening or closing time of the valve. This valve is controlled via an electronic control box 19HT located on shelf 96VU in the avionics compartment (emergency smoke detection shelf)

(Ref. Fig. 003)

The oxygen system is electrically supplied from the 28VDC smoke emergency essential busbar 303PP. Integral lighting for the high and low pressure indicators is provided by the 5 volt AC circuit LF.

The supply valve is connected by a rigid pipe to a manifold, the main characteristics of which are as follows :

- . adapters forged with the manifold thus limiting possible leakage at joints and spillage.
- . plenum chamber increasing system performance and safety.

On the manifold are connected :

- the LP transmitter which detects low pressure by means of an integrated transducer delivering an electrical signal to a remote indicator located on the control and monitoring panel in the flight compartment.
- three rigid pipes, two for distribution, one for connection to a test port equipped with a bayonet connection with an integrated non return valve, and an airtight cap, designed to be fitted with a PURITAN 110-111-36 special test connector.

The maximum pressure which can be applied to the test port is : 9 bars (130 psig). This test port enables a strength and leakage test of this system to be performed, particularly after any removal of a component of the distribution system.

B. Oxygen Distribution Systems

(Ref. Fig. 004)

(Ref. Fig. 005)

(Ref. Fig. 006)

R

Two distribution systems connected to the manifold run below the flight compartment floor in the avionics compartment ; one supplies the Captain's and the 3rd folding seat Occupant's oxygen mask assembly through the floor ; the other supplies the First Officer's and the optional 4th

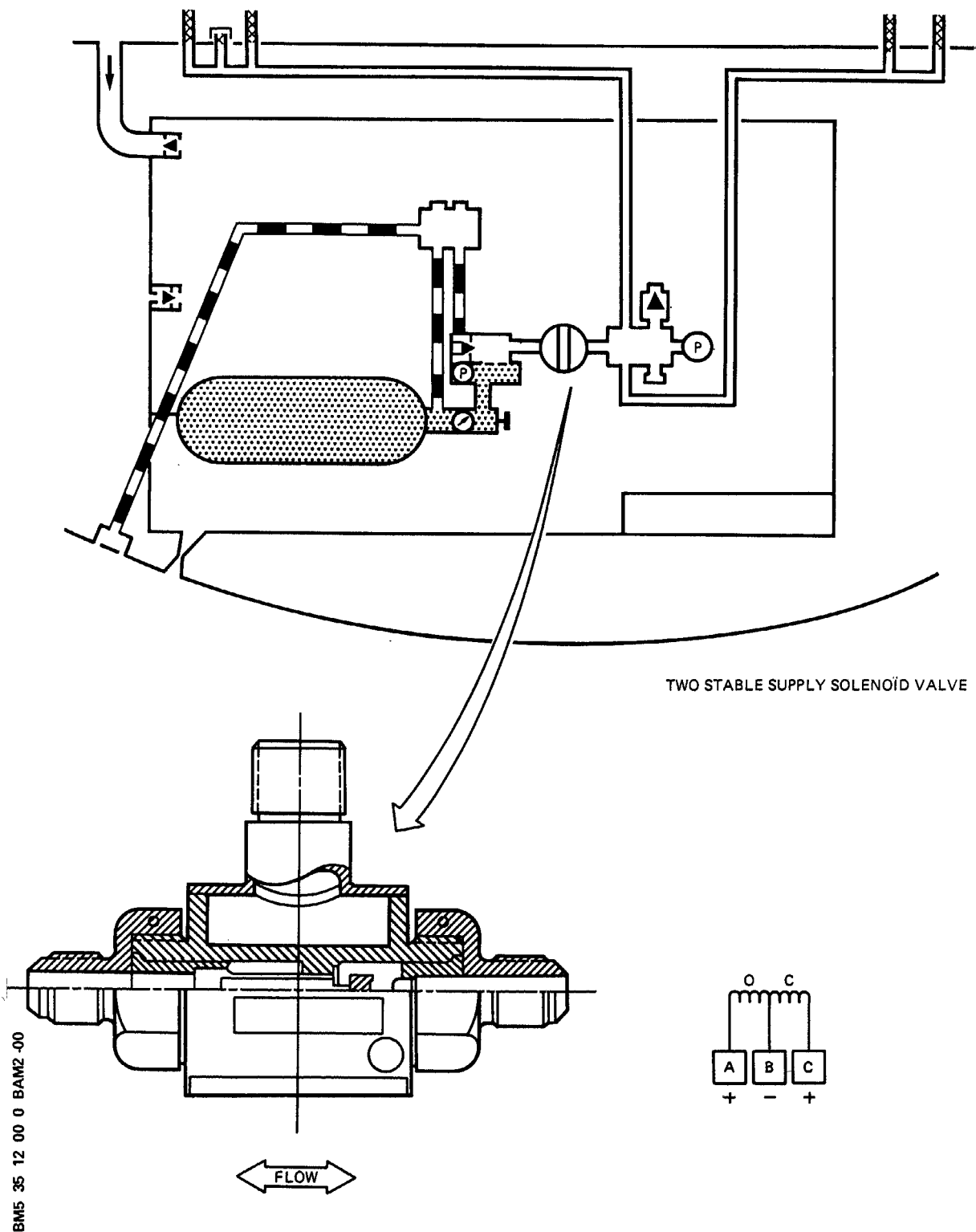
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Oxygen Supply Valve
Figure 001

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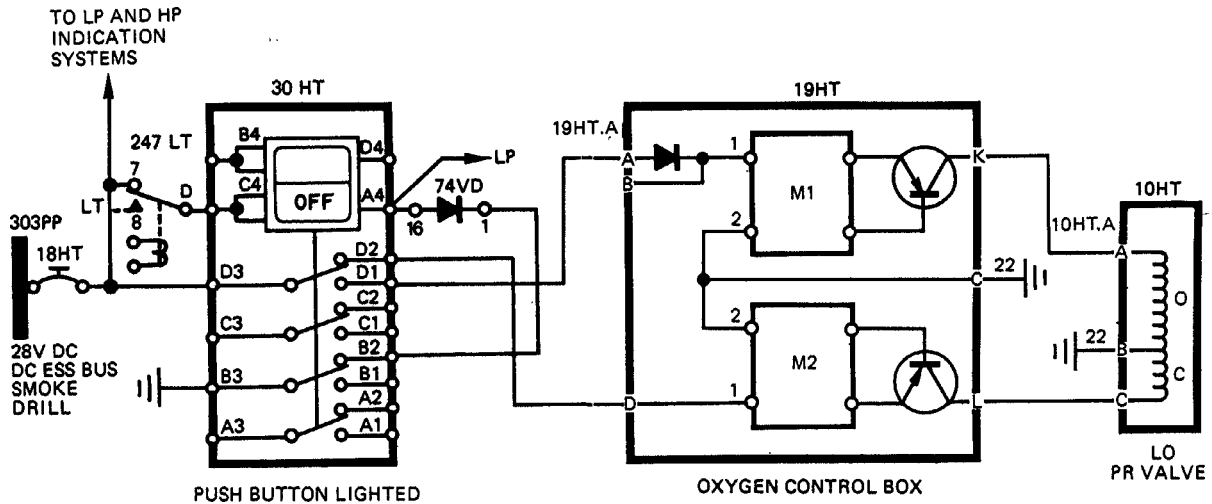
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Supply Valve Control
Figure 002

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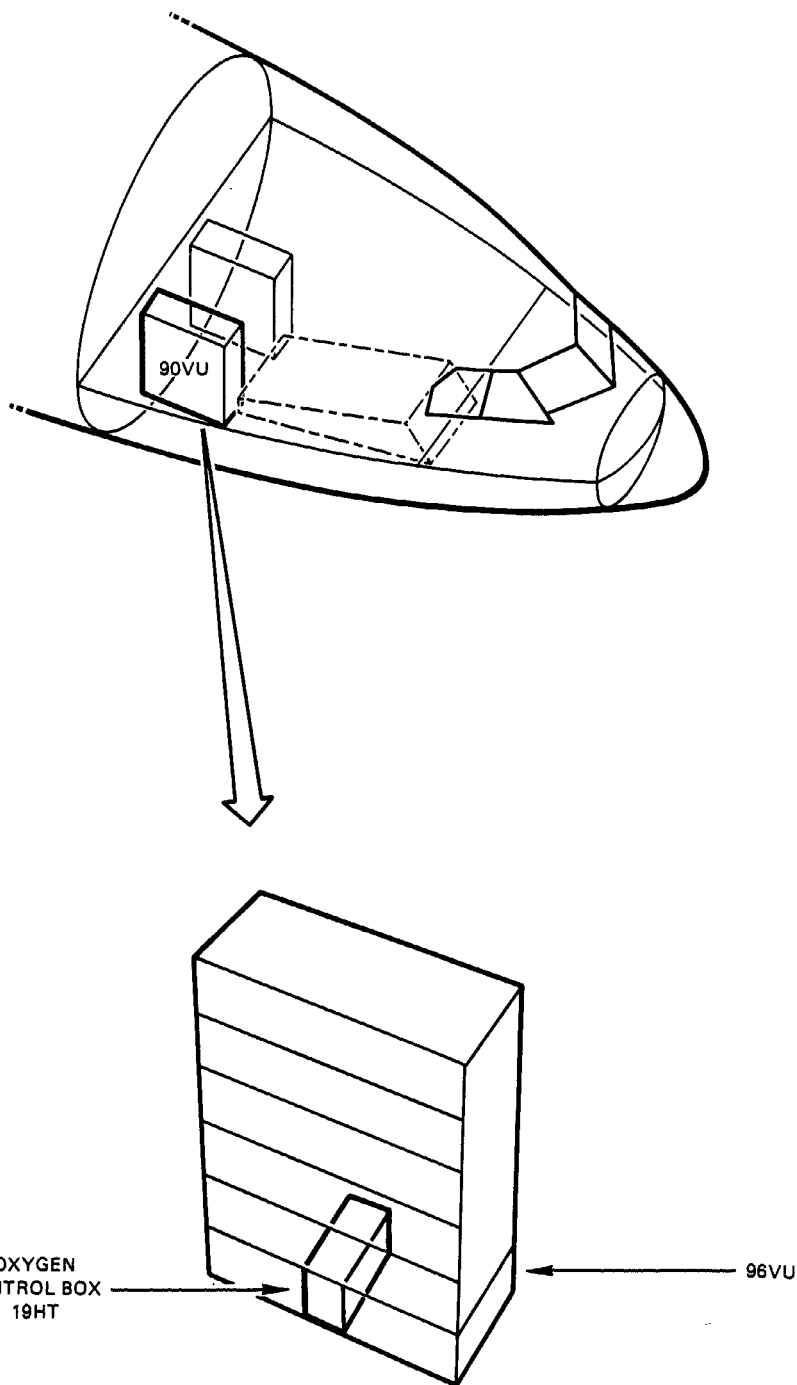
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Oxygen Control Box Location
Figure 003

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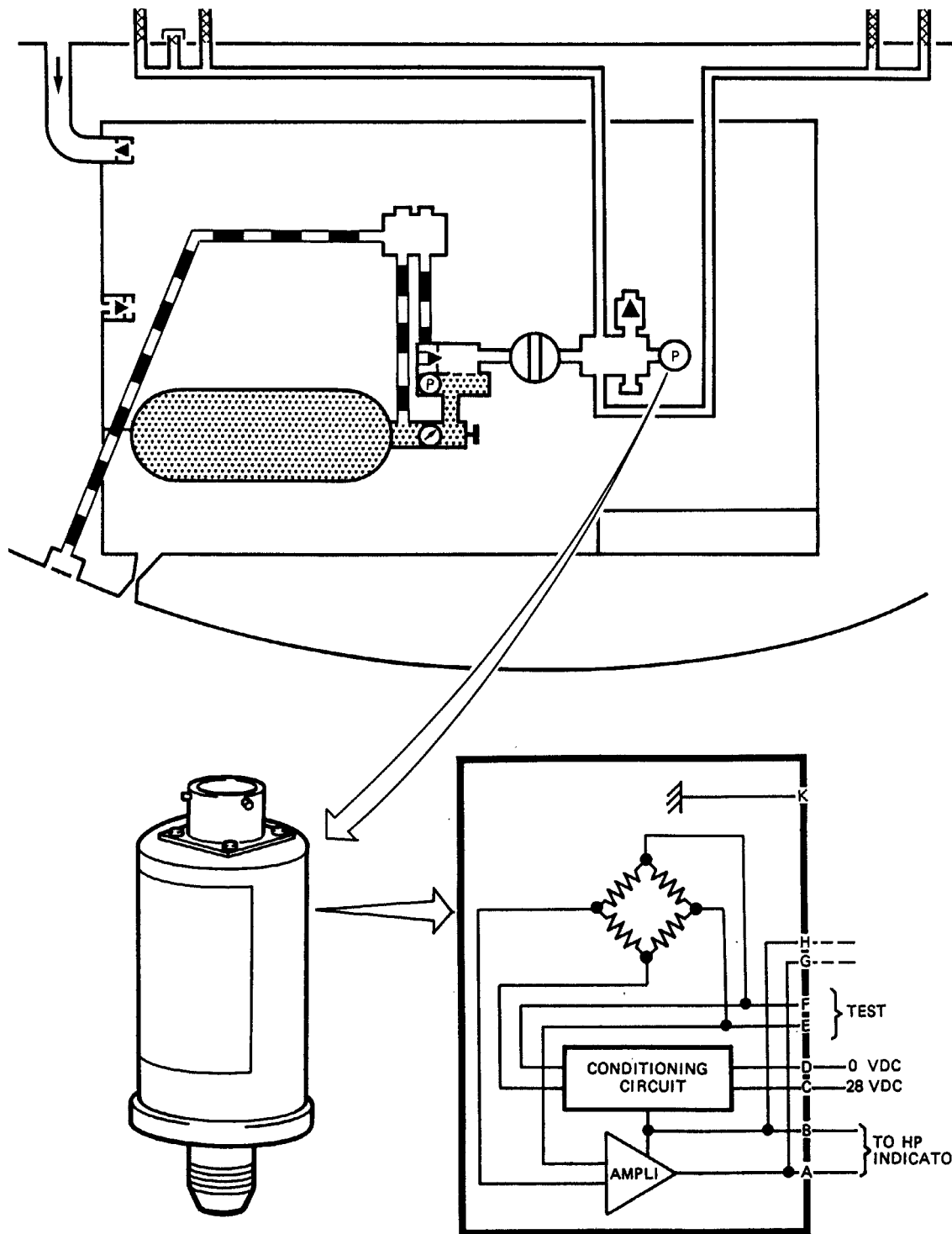
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Low Pressure Transmitter
Figure 004

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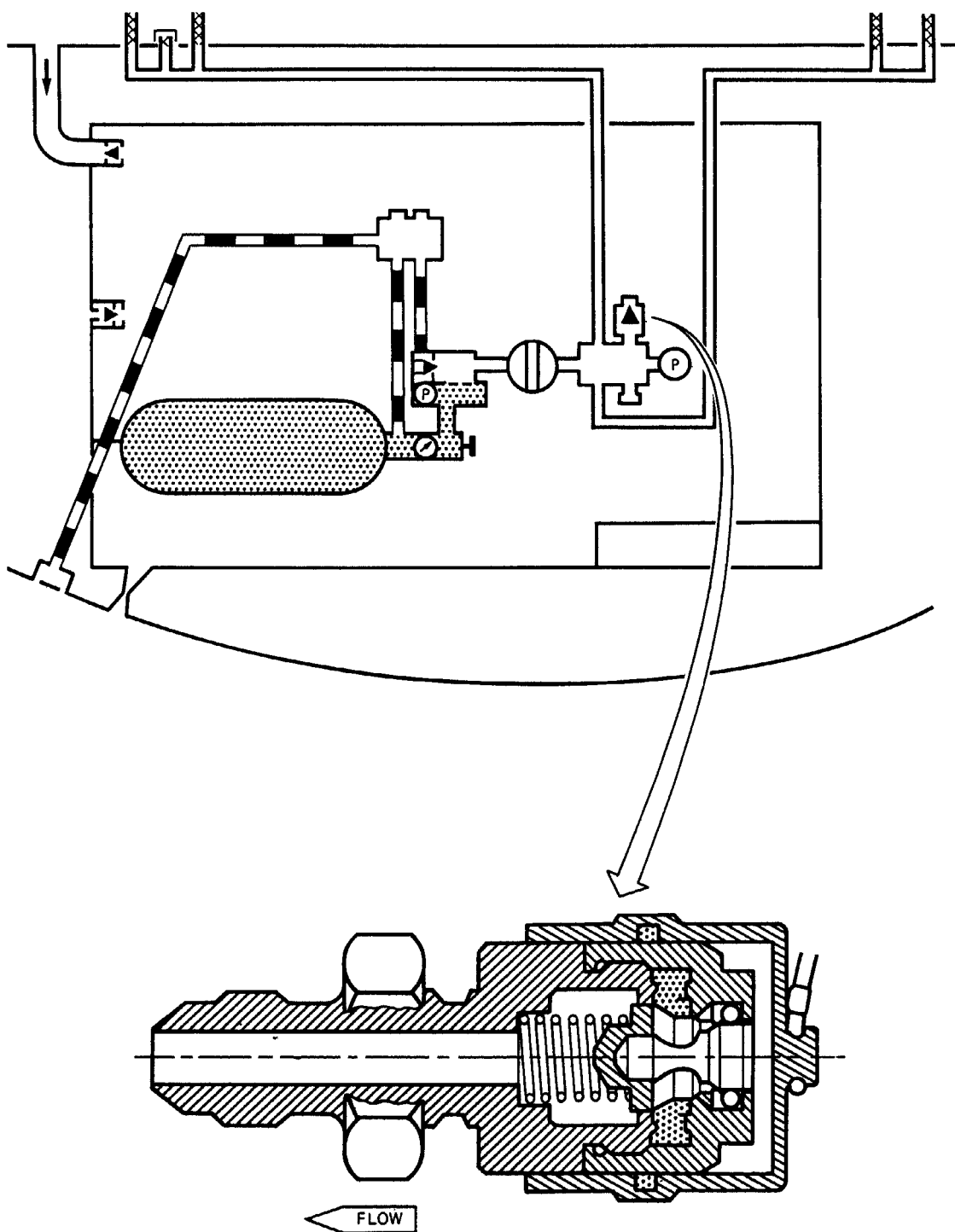
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Test Port Assembly
Figure 005

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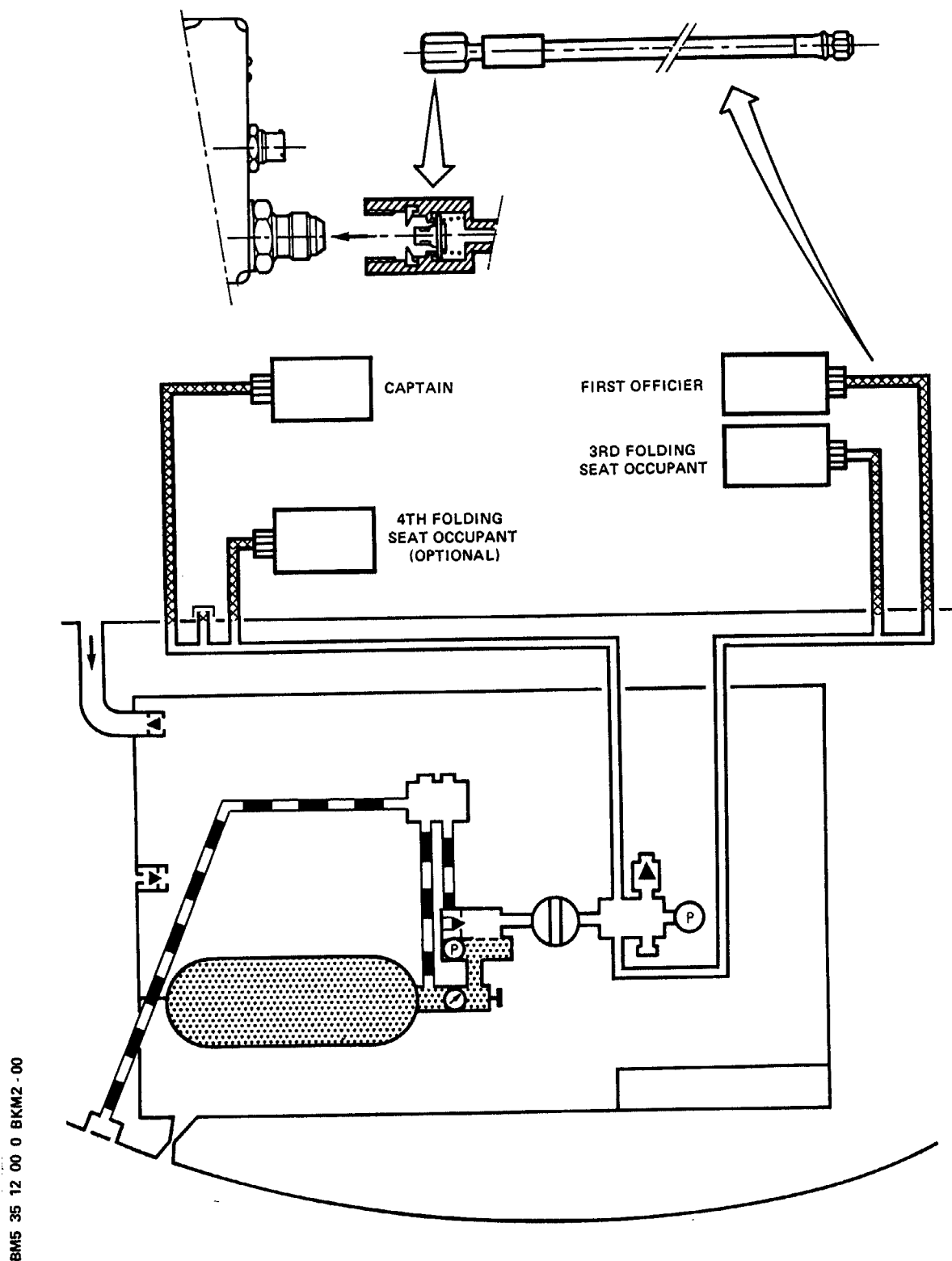
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Flexible Hose
Figure 006

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Occupant's oxygen mask assemblies through the floor. The whole system is made up of rigid pipes, except the junction between the rigid pipes supplying the mask assemblies and the mask assembly itself, which is ensured by a flexible hose/self sealing coupling.

This flexible section which enables easy connection of the mask assembly, ensures perfect sealing of the aircraft system during disassembly and reassembly phases of the mask assembly, even when the latter is not connected to the aircraft system.

R

C. Quick Donning Oxygen Mask Assembly

R

(Ref. Fig. 007)

R

(Ref. Fig. 008)

(Ref. Fig. 009)

Adjacent to each of the five crew members occupying a seat in the flight compartment, is installed a mask assembly including a mask and a stowage box.

(1) Stowage box

It includes :

- (a) A connector enabling connection of the flexible hose and therefore eliminating the function of the self-sealing coupling of this hose.
- (b) A two-flap door maintaining the mask in its housing, protected from foreign matter ; the left flap, because it incorporates the control slide, controls the supply valve opening and closing.
- (c) A stainless steel rigid pipe connected to the connection (a) and to a pneumatic supply valve, the operating conditions of which are ensured either by the opening of the LH flap on the box face or by the TEST RESET self-returning control slide integral with this left flap.
- (d) A blinker flowmeter flashing when oxygen is flowing.

(Ref. Fig. 010)

(2) A mask/stowage box junction assembly consisting of :

- (a) A preformed flexible hose for oxygen supply connected to the valve and the free end of which includes a quick disconnect connection with self-sealing coupling for connection to the relevant supply pipe of the mask regulator
- (b) A microphone lead tied to the oxygen flexible hose by ties and connected at one of its ends to a connector mounted on the box and enabling connection to the aircraft network ; the other end is provided with quick-disconnect positive locking connector for connection to the relevant mask microphone supply cable.

(3) Quick-donning mask

The quick-donning (less than 5 sec) oxygen mask consists of :

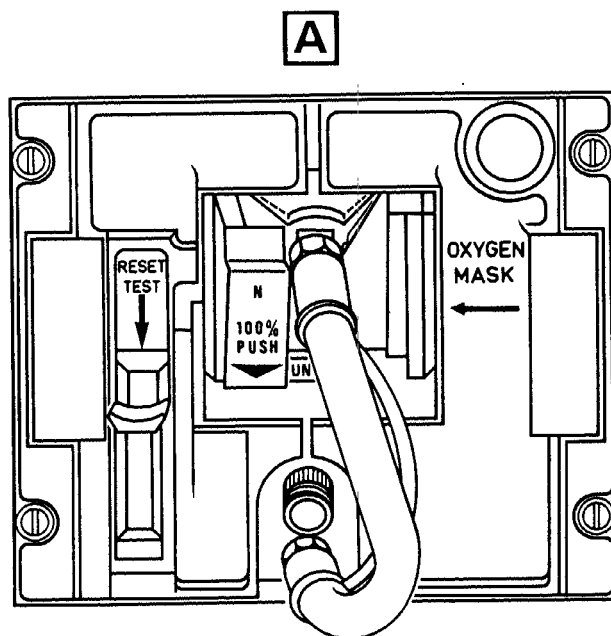
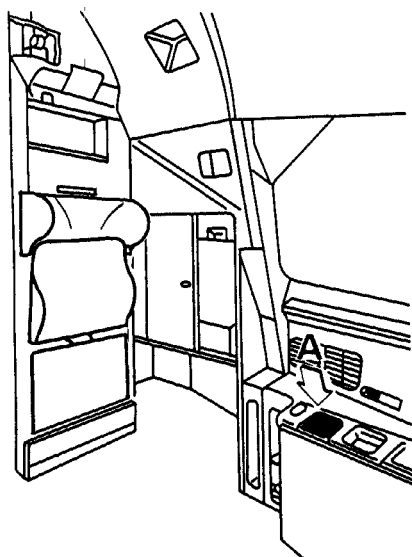
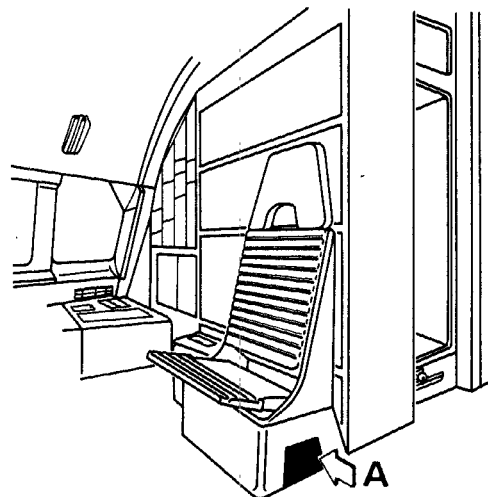
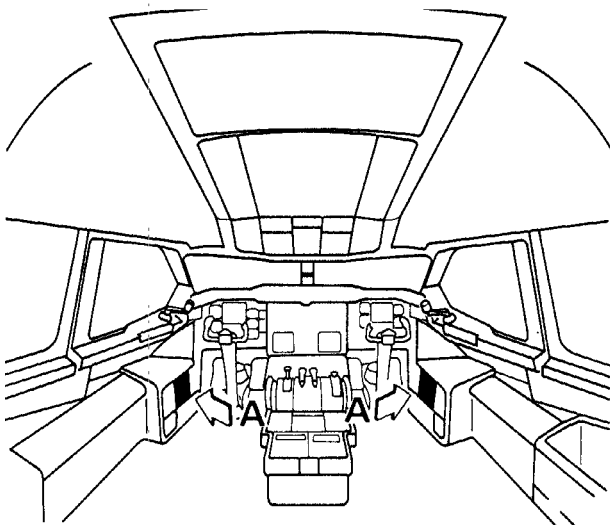
- . a harness inflated by a manual control lever, which is used simula-

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Quick Donning Oxygen Mask
Figure 007

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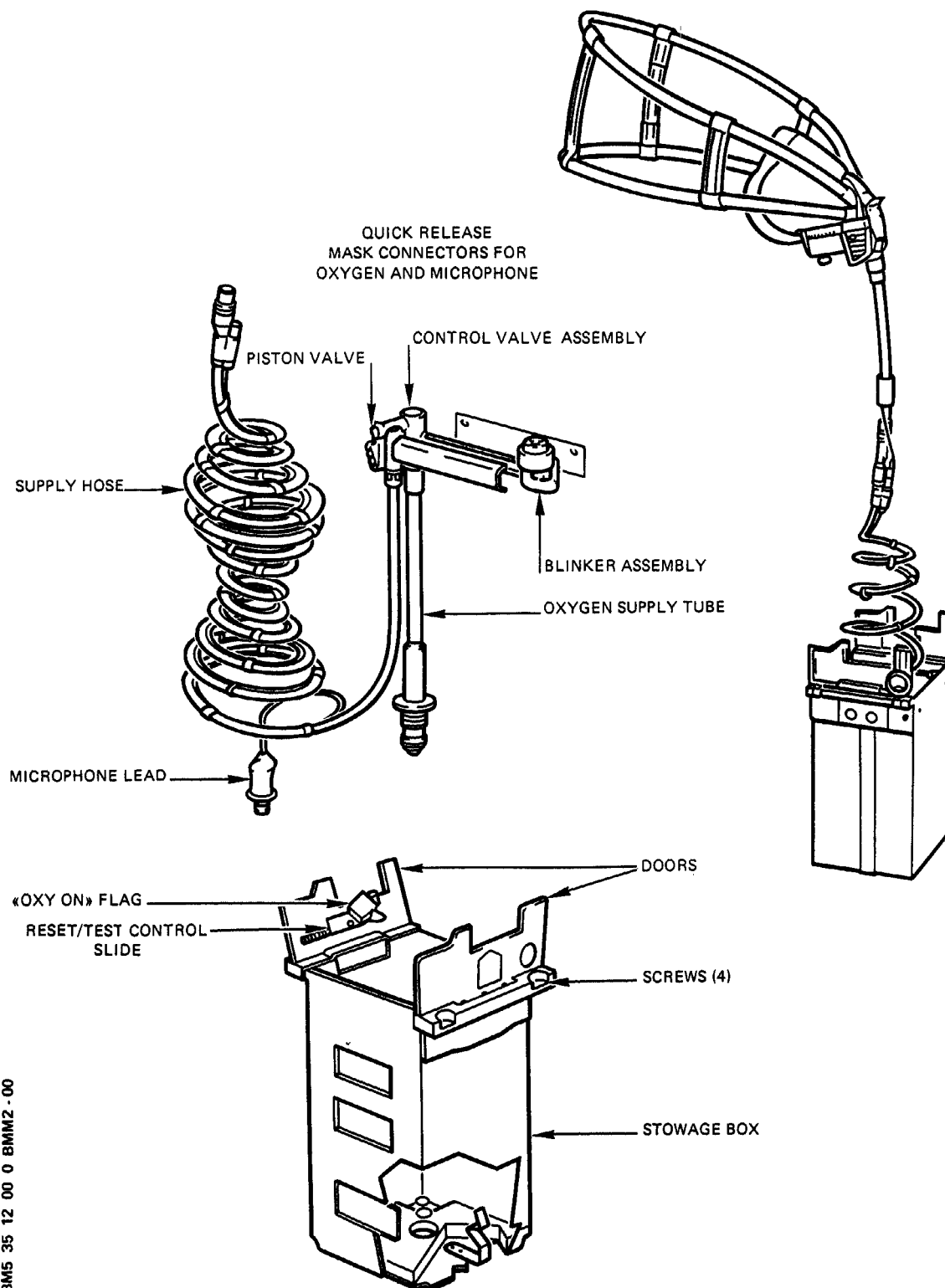
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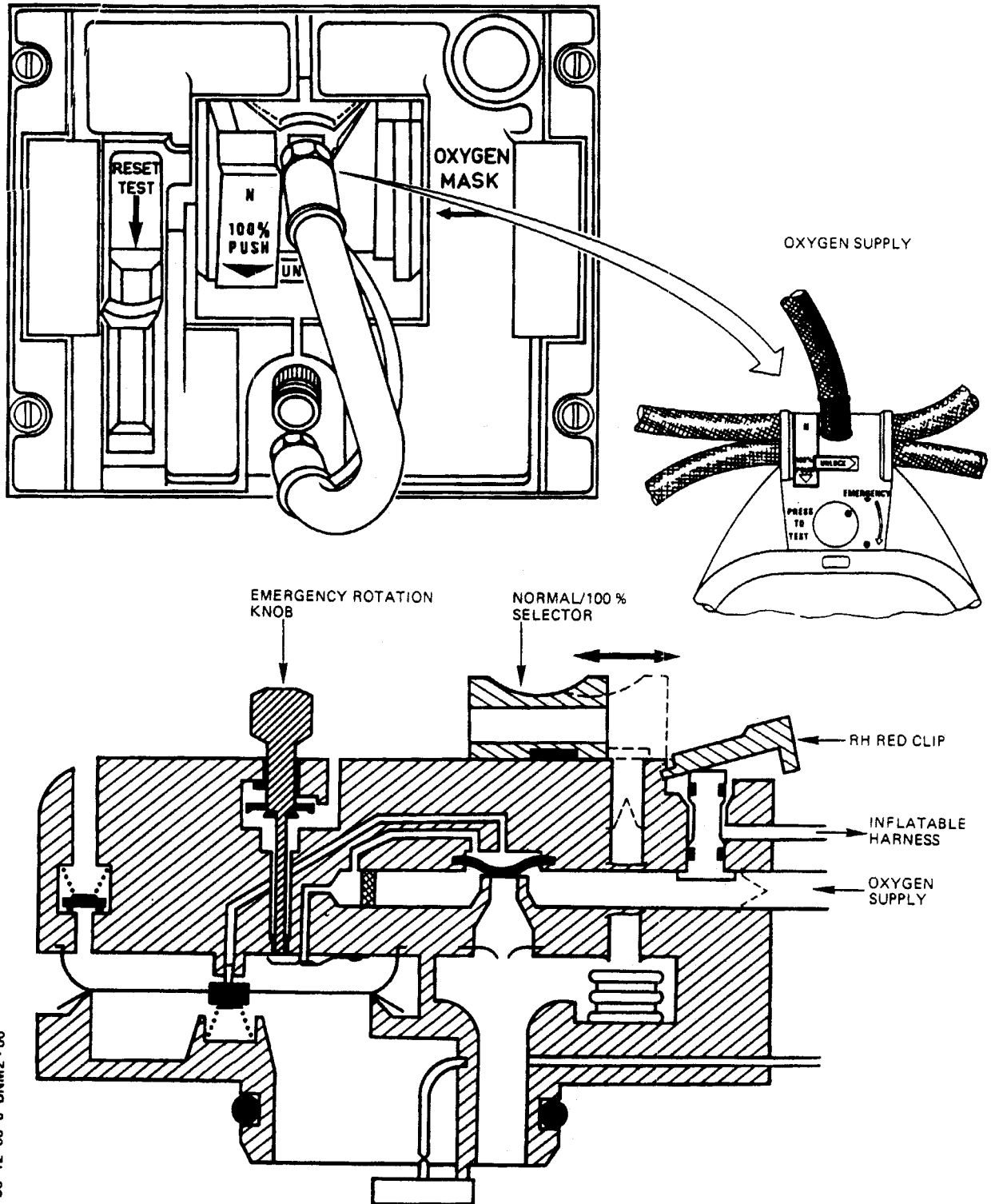
Quick Donning Oxygen Mask Assembly
Figure 008

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Quick Donning Mask Regulator Assembly
Figure 009

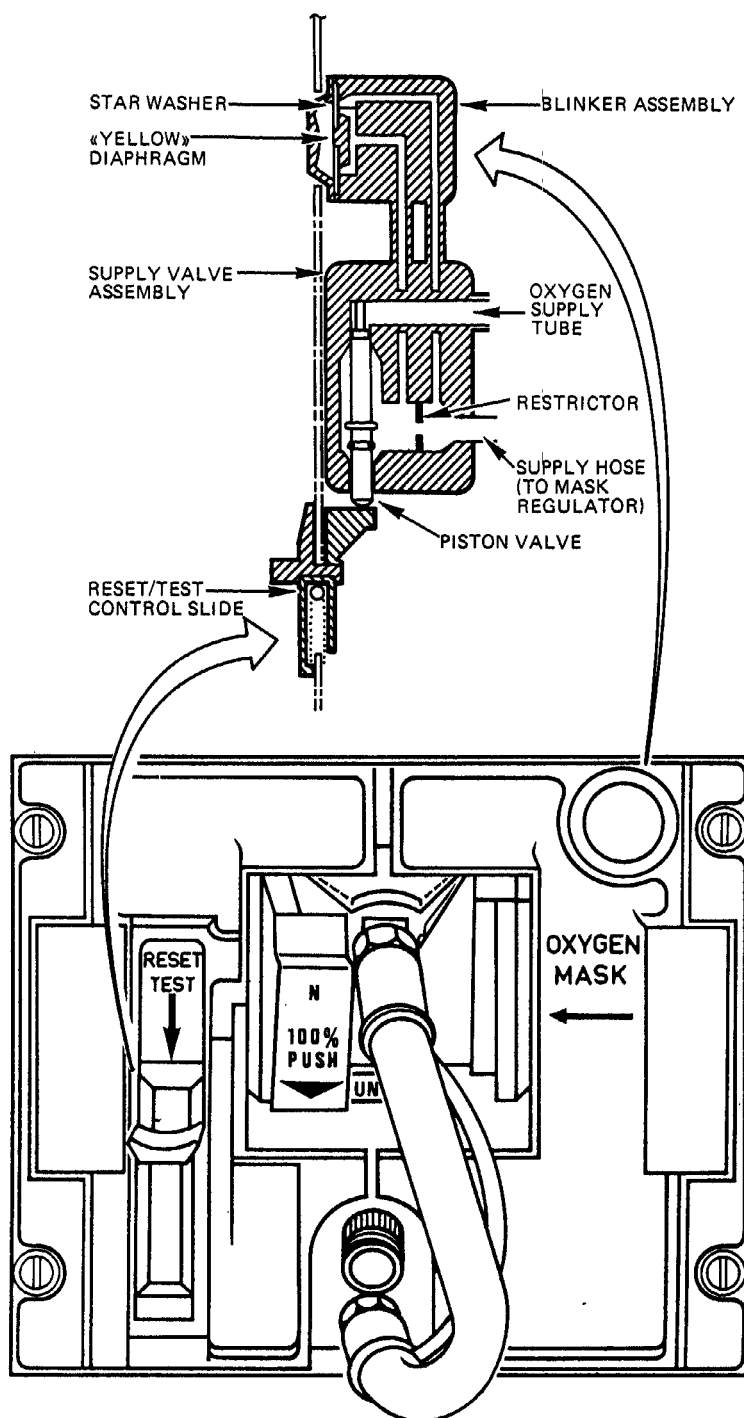
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Quick - Donning Oxygen Mask Supply Valve and
Blinker Assembly
Figure 010

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AIRCRAFT MAINTENANCE MANUAL

neously to remove the mask from its housing and inflate the harness enabling the mask to be donned.

- a demand regulator
 - air (oxygen dilution or 100 % pure oxygen according to altitude)
 - 100 % pure oxygen without overpressure
 - 100 % pure oxygen with overpressure

The first two functions are ensured by the **NORMAL - 100%** selector with positive locking on the 100 % position, the last one by an emergency rotation knob (when pressing : intermittent continuous flow), (when turning : permanent continuous flow).

(Ref. Fig. 011)

- a face piece, which is tightly applied on the face, and includes a high level dynamic type microphone with a built-in preamplifier.

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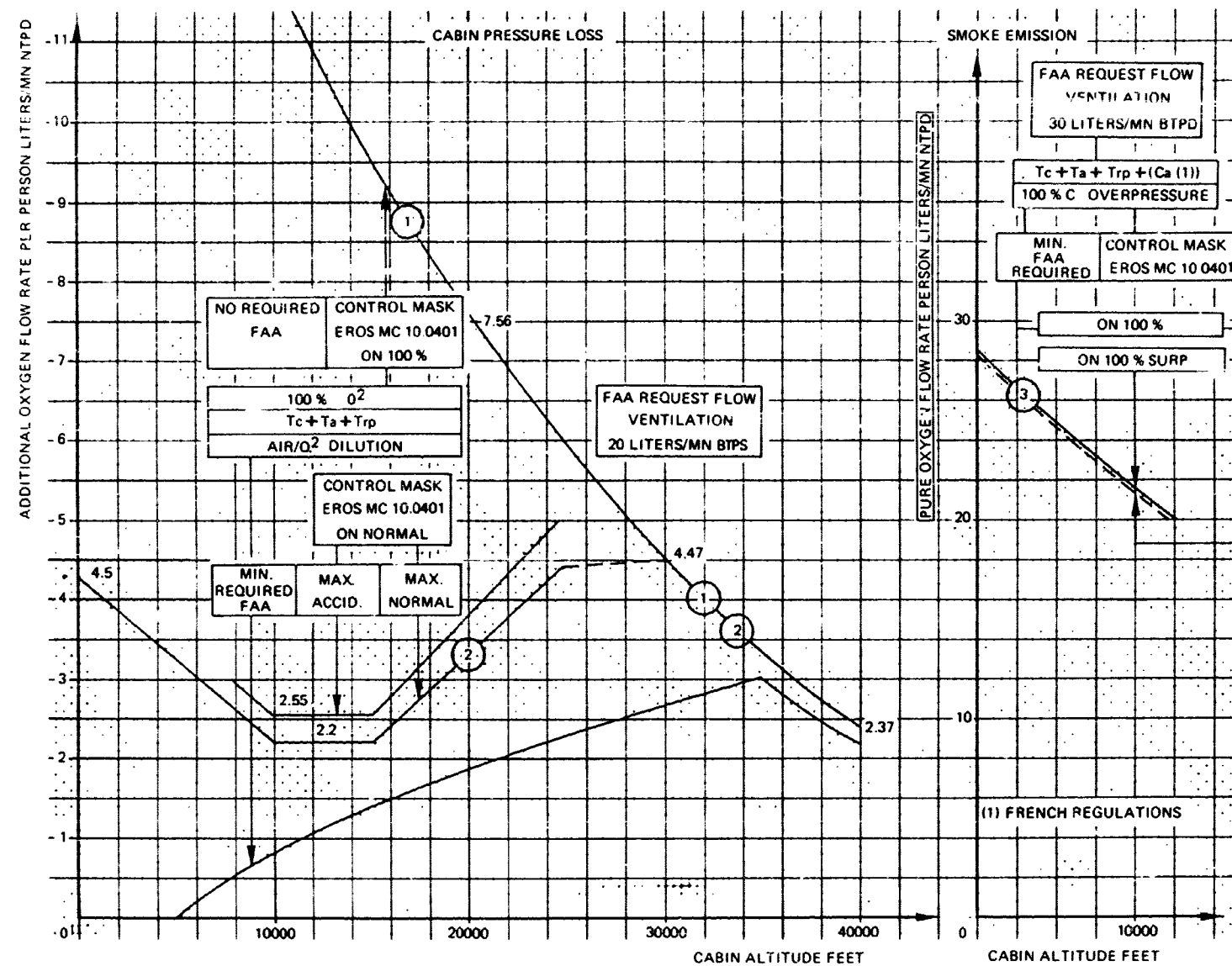
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Quick - Donning Mask Regulator Performance
Figure 011

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D. System Supply Capability

- (1) The system capability is determined from :
- (a) The analysis of the applicable official regulations.
 - (b) The flight conditions after a cabin pressure loss. These conditions are defined, with passengers on board, in the flight limitations
 - (c) The supply conditions. Degree of protection according to corresponding figure
 - (d) The quick-donning mask regulator performance (Ref. Fig. 011)
 - (e) The safety factors relative to :
 - the minimum operating pressure particular of the cylinder regulator
 - the possible leakage from the system and equipment
 - the mask regulator tolerances concerning the flow rate
 - the tolerances on the user's ventilation flow
- (2) All the parameters necessary for the calculations of capability are specified (Ref. Fig. 012)
- (a) The calculations of capability are thus specified :
 - Minimum necessary oxygen quantity in the cylinder :
f (supply duration after a cabin pressure loss)
(Ref. Fig. 013)
 - Minimum necessary oxygen pressure in the cylinder :
f (supply duration after a cabin pressure loss)
(Ref. Fig. 014)

E. Controls and Monitoring - Description of Indication Analysis

- (1) Storage compartment
- It is possible, through the windows provided on the storage compartment access cover to check with a flash light the cylinder pressure by direct reading of the cylinder gauge provided for that purpose upstream of the cylinder valve. This reading is mainly intended for the maintenance personnel who must check the cylinder residual pressure to decide a possible replacement.
- It should be noted that the residual pressure in the cylinder must not be less than 85 psig ; this condition is necessary to avoid the introduction of humidity which would require a cleaning operation before filling.
- (2) Control and monitoring panel
- (a) Description
- This panel is located on the center overhead panel

2. Operation**A. Quick-Donning oxygen mask assembly (Ref. Fig. 015, 016)**

- (1) Control of oxygen supply valve
- The oxygen supply can be ensured :
- . during the in situ tests, by holding the self returning control slide
 - . during mask utilization, by opening the LH flap without actuating the control slide.
- Oxygen supply remains ensured if, after opening the LH flap, this flap is closed again. In this case, a white flag with OXY. ON indication appears to the right of the left flaps. Still in this case, oxygen supply can be turned off when returning the mask to the stowage

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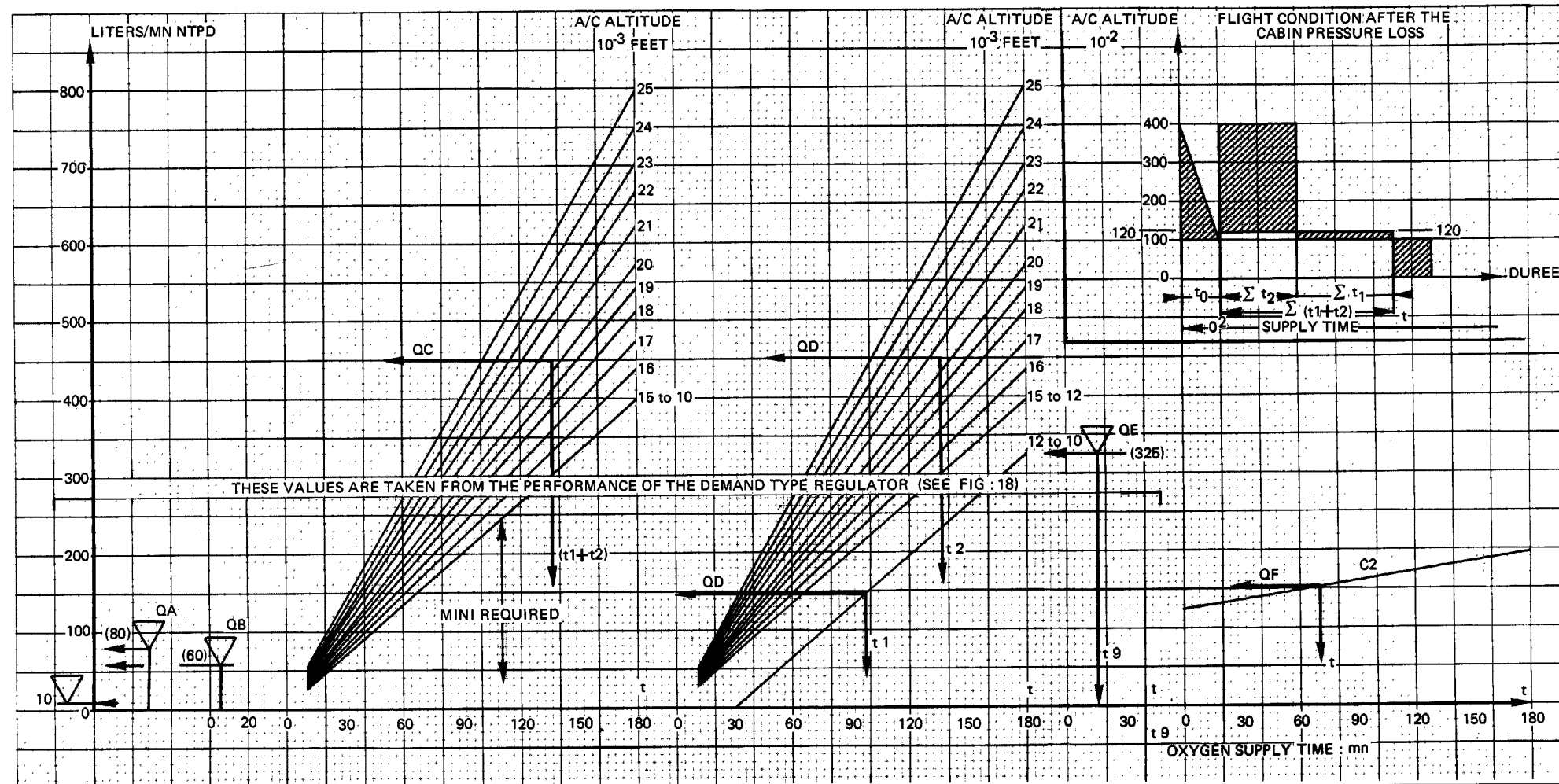
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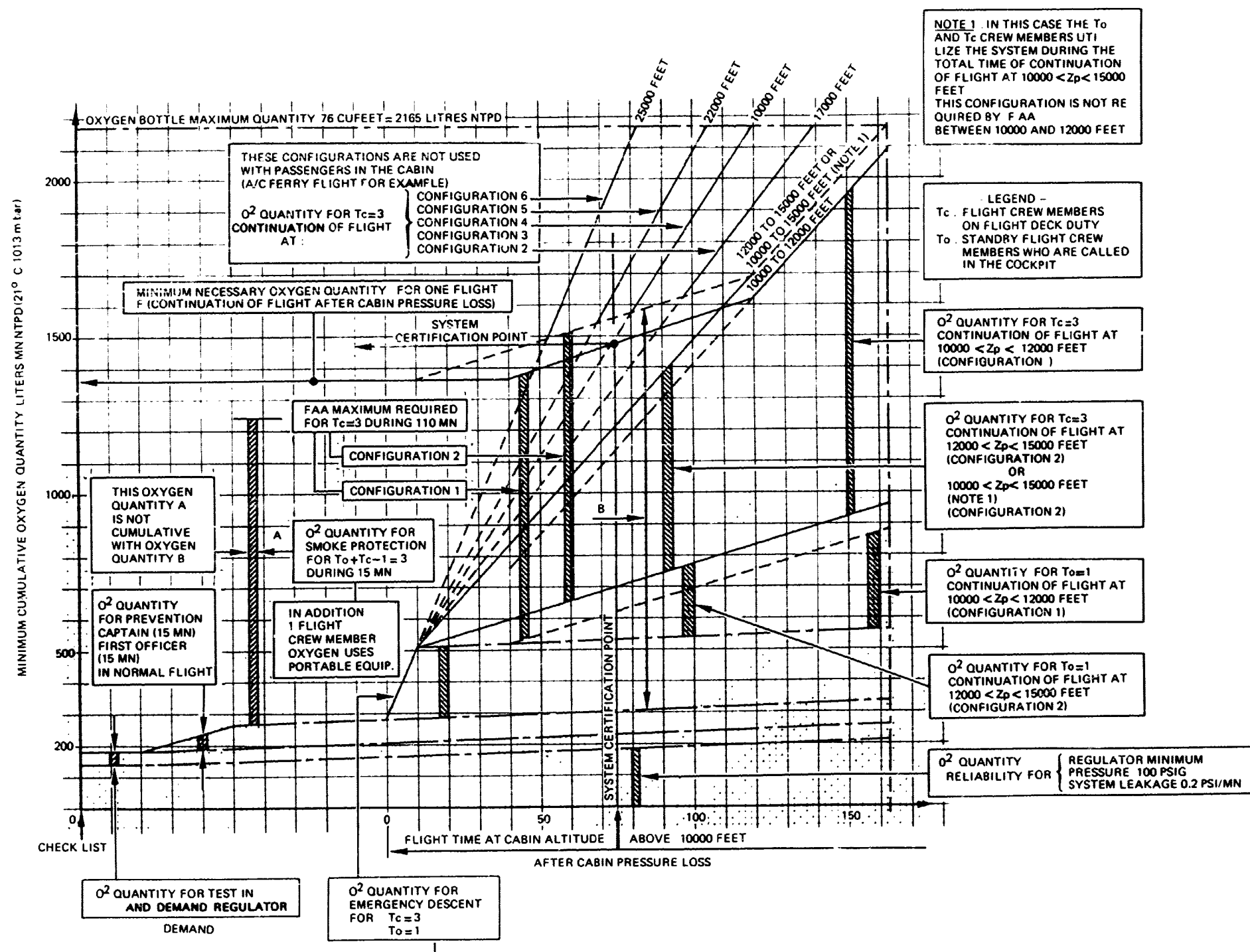
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GROUND	NORMAL CABIN ALTITUDE	CABIN PRESSURE LOSS				NORMAL CABIN ALTITUDE	SAFETY FACTORS MIN PRESSURE REGULATOR 100 PSI CIRCUIT LEAKAGE 0.2 PSI MN	
TEST IN SITU	PREVENTION CAPTAIN FIRST OFFICER DILUT AIR/O ₂ 2 x 15 MN	DESCENT	CONTINUATION OF FLIGHT				SMOKE EMISSION	
		T _c + T _a + T _{rp}	FLIGHT CREW MEMBERS OR FLIGHT DECK DUTY T _c		STANDBY FLIGHT CREW MEMBERS IN THE COCKPIT T _a +T _{rp}		(T _c +(T _a +T _{rp} - 1)	
		100% O ₂	DILUTED AIR/OXYGEN		DILUTION AIR/O ₂		100% O ₂	
		t _o =10 MN	Σ t ₁ +t ₂ WITH MINI 110 MN AZ AVION =10000 F		Σ t ₂ A Z AVION >12000 FEET Σ t ₁ A 10000 FEET < Z AVION <12000 FEET		t ₇ =15 MN	
5 SEC	CONSUM Q _A	CONSUM (T _c +T _a +T _{rp}) x Q _B	CONSUMPTION T _c Σ Q _c x K ₁ (NOTE 2)		CONSUMPTION (T _a + T _{rp}) x Σ Q _D x K ₁ (NOTE 2)		UMPTION T _c +(T _a +T _{rp} - 1) X Q _E (NOTE 2)	CONSUMPTION Σ n Q _F
COSUM <div>T_c + T_a + T_{rp} + X Q_o</div>	CONSUMPTION CALCULATIONS							
	MINIMUM NECESSARY OXY. QUANTITY Q _m =(T _c +T _a +T _{rp}) x Q _O +Q _A + <div><div><div>(T_c+T_a+T_{rp}) x Q_B+T_c Σ Q_c x K₁+(T_a+T_{rp}) Σ Q_D x K₁</div><div>→ 245 T_c IF Q_c < 245</div><div>OR (T_a+(T_a+T_{rp} - 1)) Q_E IF</div><div>(T_c+(T_a+T_{rp} - 1)) Q_E > (T_c+T_a+T_{rp}) Q_B +</div><div>(T_c Σ Q_c OR 245 T_c) + (T_a + T_{rp}) Σ Q_D</div></div></div> <div>+ Q_F</div>				MINIMUM NECESSARY OXYGEN PRESSURE $P_m = 1850 \times \frac{Q_m}{C_2}$ $P_m = P_m \times \frac{T^0 K}{21^0 C} \times K_2$ K ₂ = COMPRESSIBILITY FACTOR FOR O ₂			
NOTE 2 PRESSURE REGULATING TOLERANCE FACTOR AND HUMAN BREATHING TOLERANCES FACTOR K ₁ =1,15 (ESTIMATED)								

Minimum Oxygen Quantity General Calculations
Figure 012

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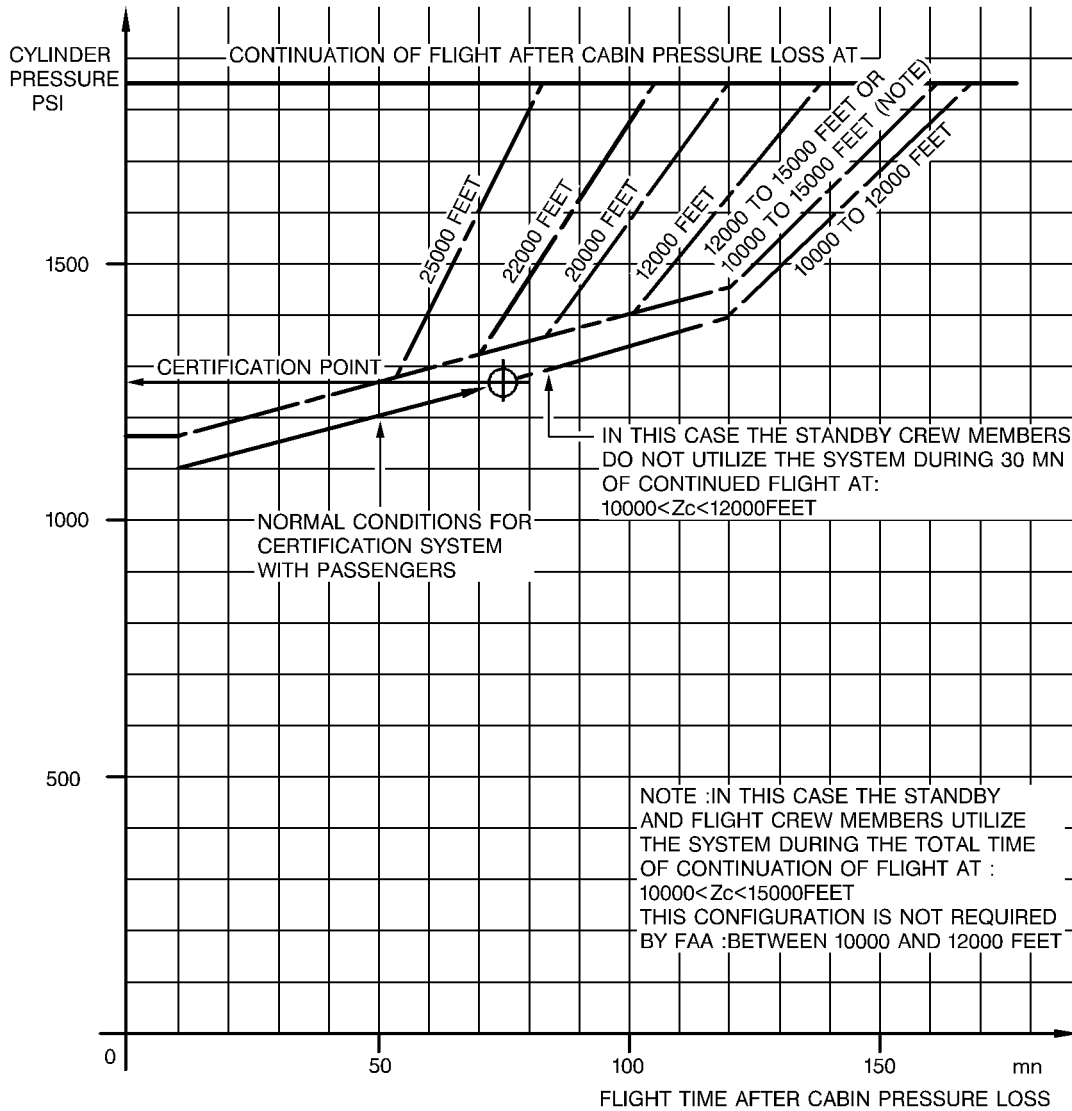
Minimum Oxygen Cylinder Quantity Calculations
Figure 013

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Minimum Oxygen Cylinder Pressure Calculations
Figure 014

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box, or even if the mask remains outside the stowage box, by momentarily moving the control slide downwards, which prevents the flag from appearing.

(2) Control of harness (Ref. Fig. 017)

Harness inflation, carried out by action on the right clip simultaneously with the action on the two clips provided to withdraw the mask from its box, is automatic and continues as long as the hand acts on the control.

(3) Normal 100% control of regulator supply (Ref. Fig. 018)

- 100% configuration ; pure oxygen without overpressure with automatic locking in this position ;
- **NORMAL** configuration ; air/oxygen dilution, 100 % obtained automatically when cabin altitude, in the event of depressurization, reaches or exceeds 35000 feet

This configuration is obtained by acting simultaneously on the locking control and on the N-100 % selector.

The normal required positions are the following :

100 % Selection

- Check-list before flight : 100 %
- Smoke emission : 100 %
- Cabin pressurization loss
- Emergency descent : 100 %
- Flight continuation : Normal

(4) Overpressure control

(Ref. Fig. 019)

An emergency rotation knob permits two configurations :

- Momentary overpressure configuration by pressing the knob (this instable position is frequently called "sweeping" configuration)
- Permanent overpressure configuration by rotating the knob in the direction indicated by the arrow (this position is stable)

In both configurations, an overpressure < 3 mbars generated by a continuous flow, is created in the mask face piece

The normal required positions are as follows :

- Normal flight conditions : no overpressure
- Abnormal flight conditions

Possibility to achieve a momentary or permanent overpressure. This overpressure, which must always be limited, affords the following advantages :

(a) Cabin pressure loss :

Less resistance to inhalation

(b) Smoke emissions :

- smoke elimination from the mask envelope
- less resistance to inhalation

B. Quick - Donning Oxygen Mask Stowage (Ref. Fig. 020, 021, 022)

C. Ground Tests

(1) Periodical tests performed by the maintenance personnel

The distribution system leakage test must be performed from an exterior test bench through the test port.

- After removal of a component

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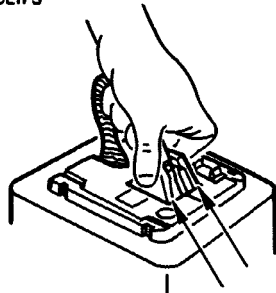
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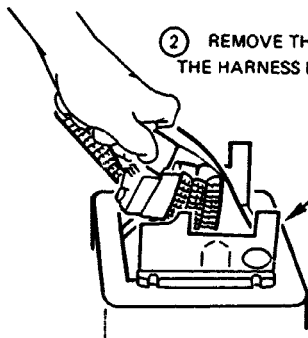
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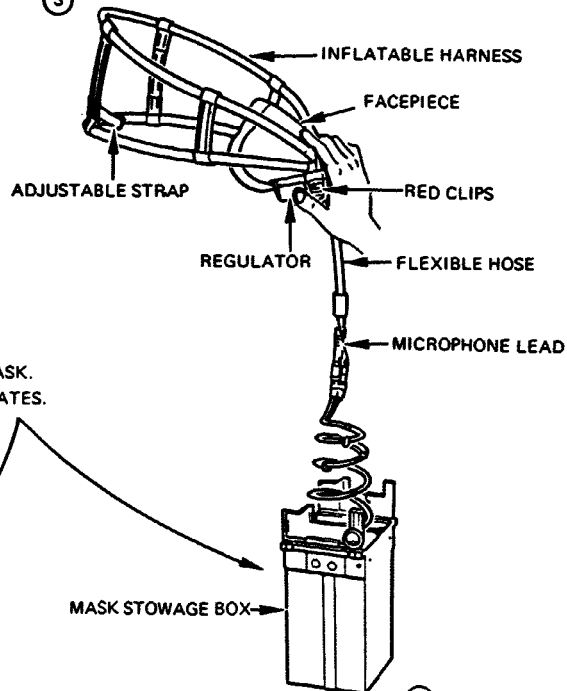
- ① TAKE THE MASK BY SQUEEZING THE RED CLIPS



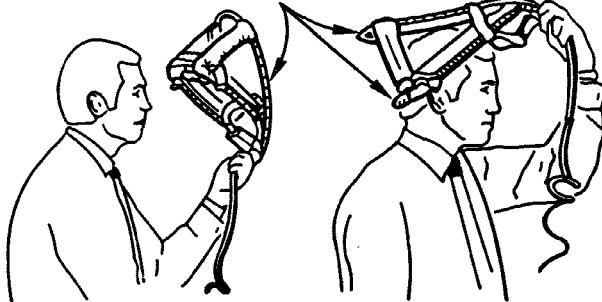
- ② REMOVE THE MASK. THE HARNESS INFLATES.



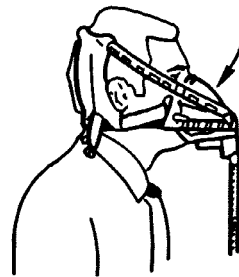
③



- ④ DONNING OF THE MASK (HARNESS INFLATED)



- ⑤ RELEASE THE RED CLIPS: HARNESS DEFLATES AND MAINTAINS THE MASK



- ⑥ ADJUST MASK WITH STRAPS



⑦



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Quick-Donning Oxygen Mask Operational Steps
Figure 015

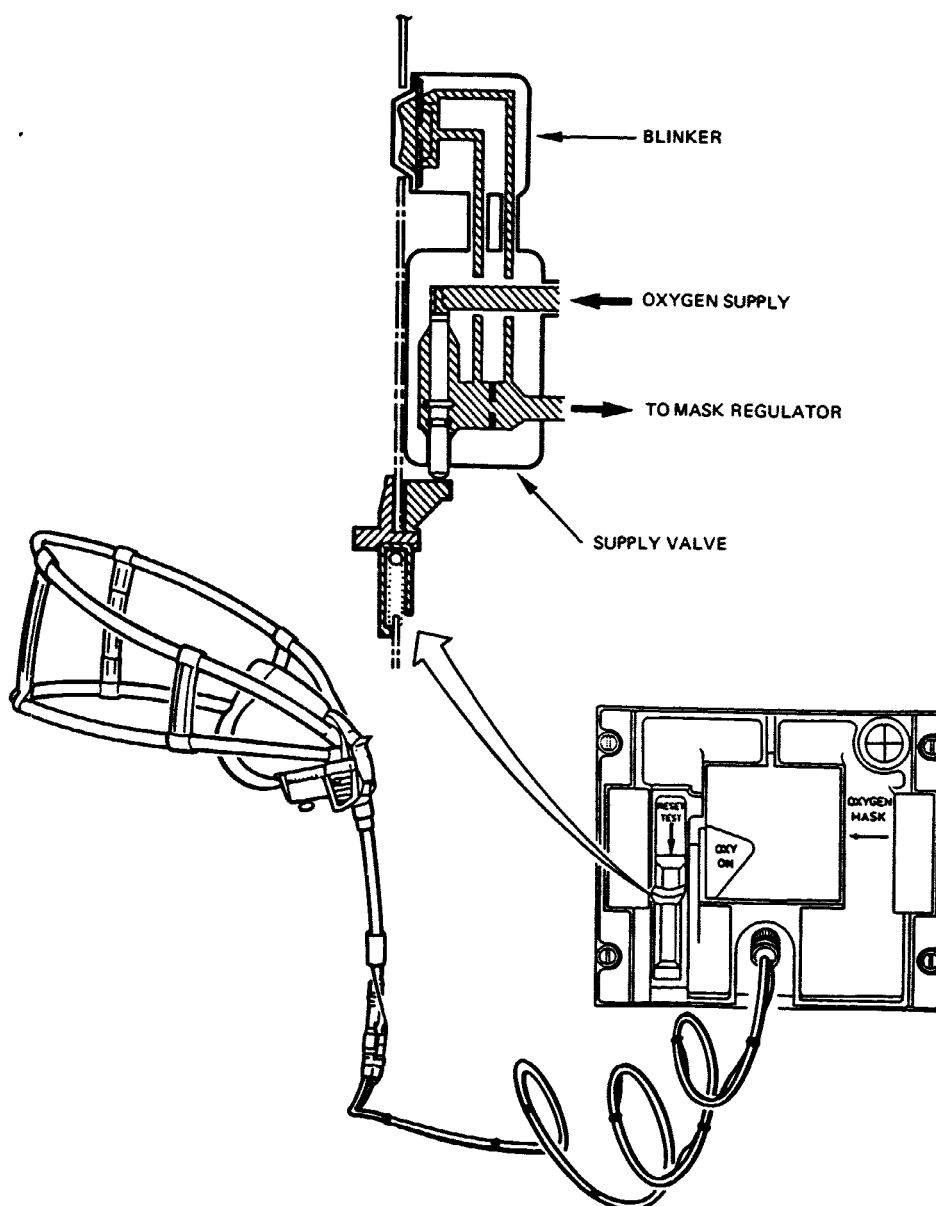
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Use of Quick-Donning Oxygen Mask with Stowage Box Closed
Figure 016

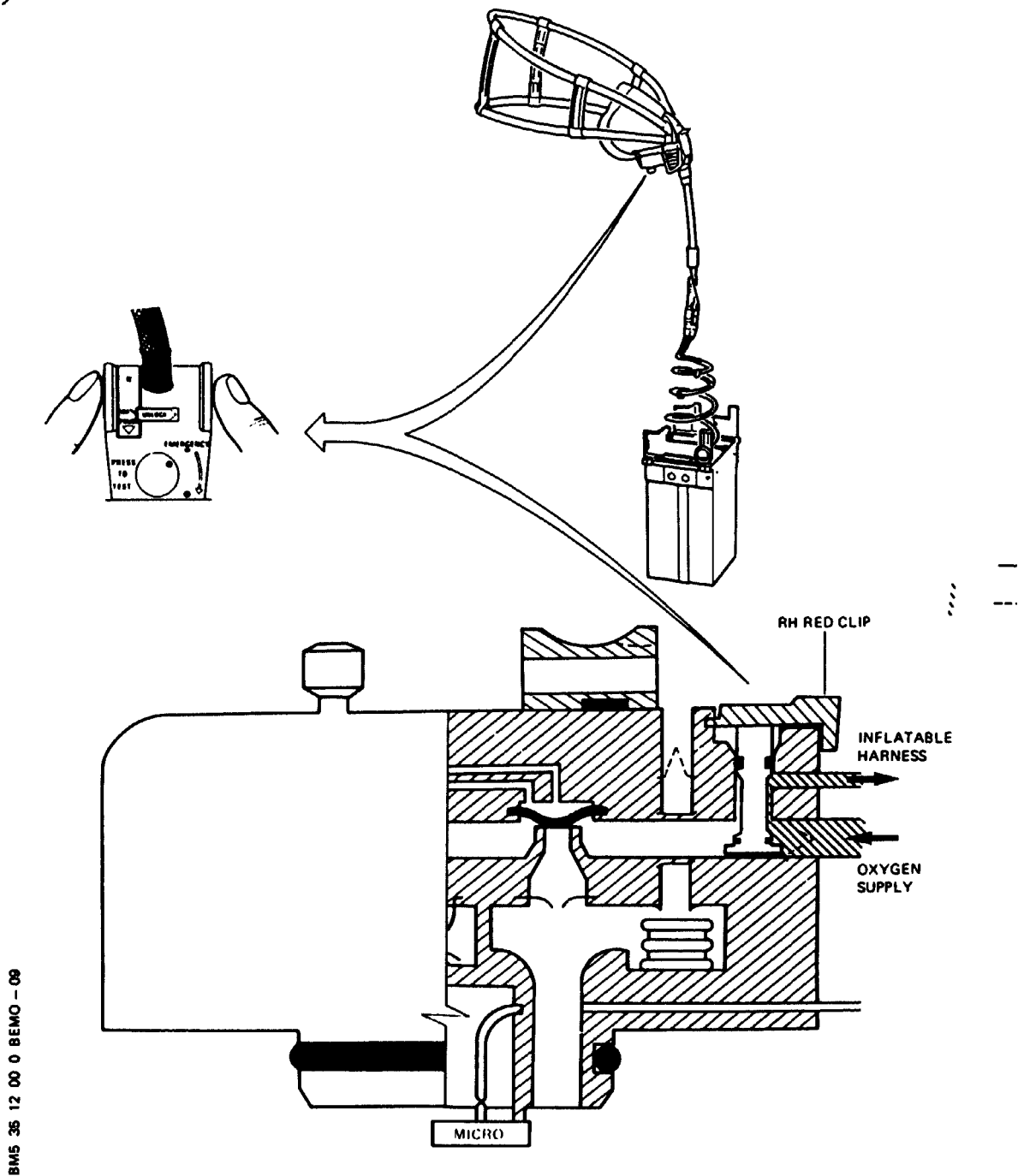
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Inflatable Harness Operation
Figure 017

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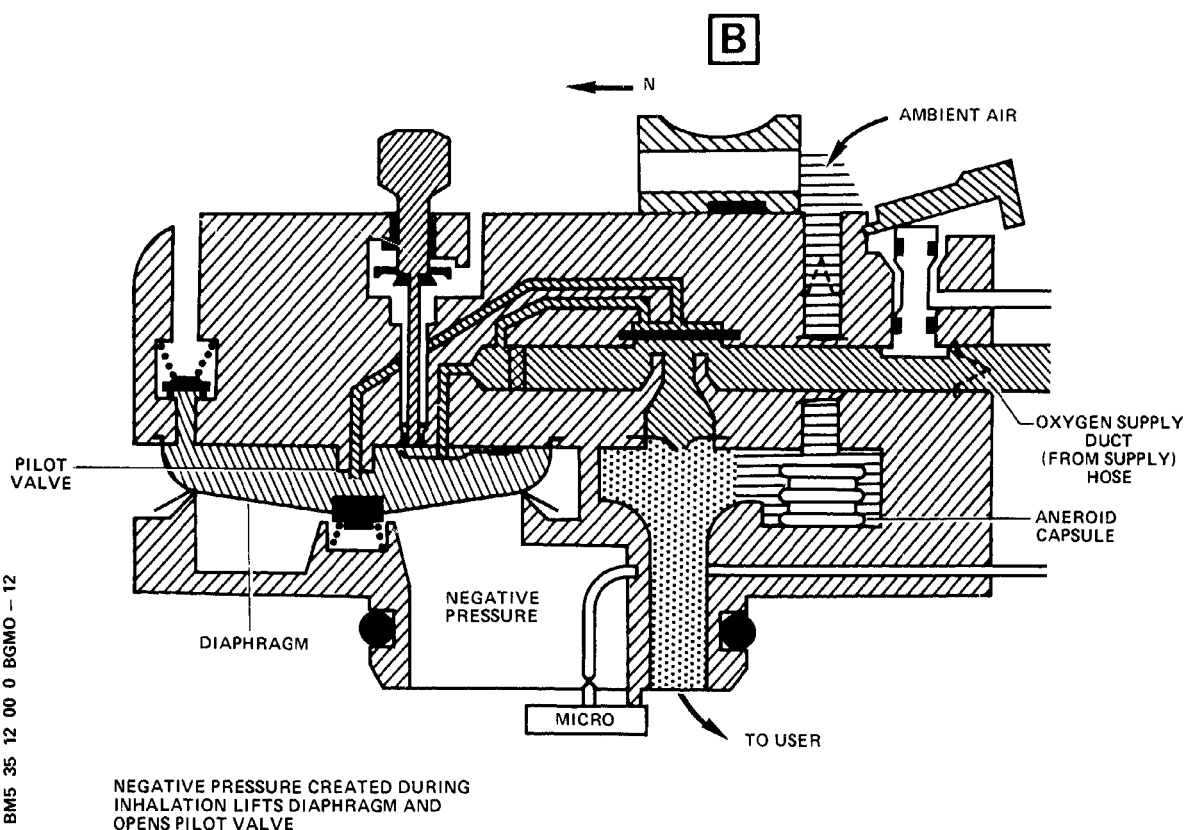
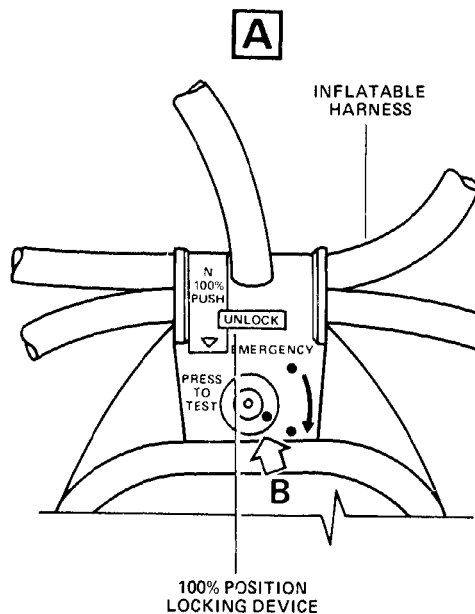
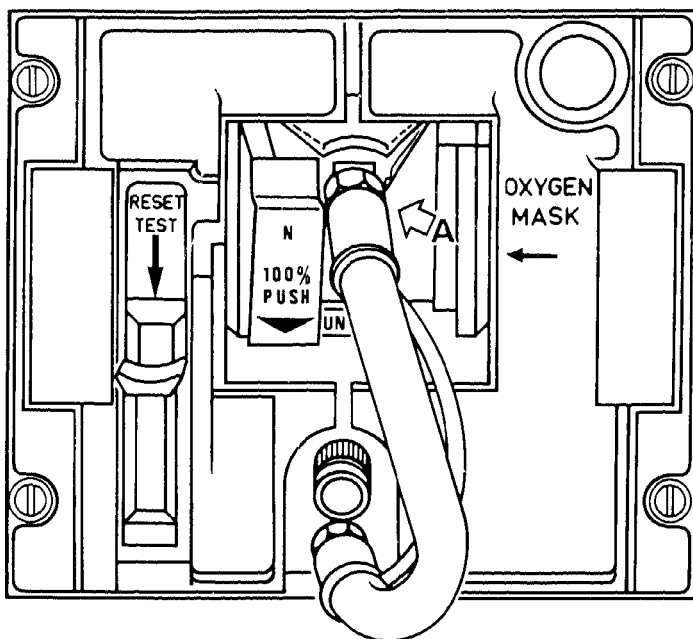
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Quick-Donning Oxygen Mask Regulator Normal -

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Figure 018

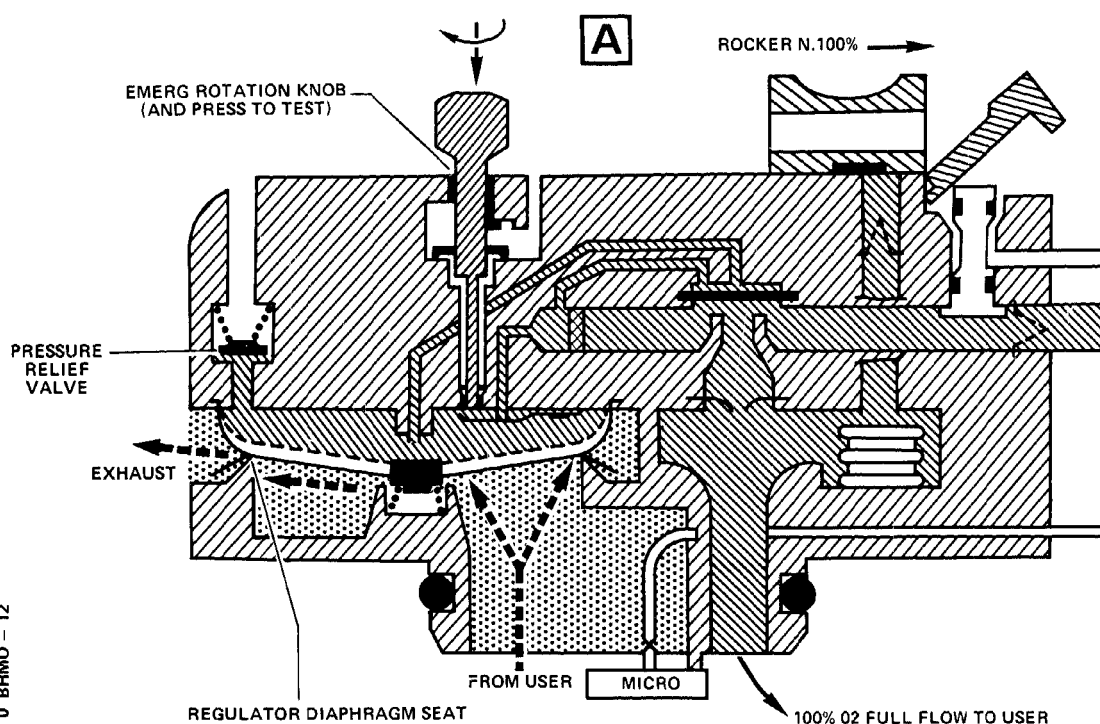
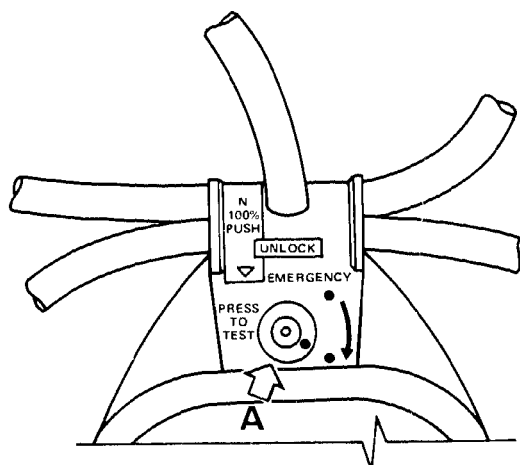
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Quick - Donning Oxygen Mask Regulator - Emergency Selection
Figure 019

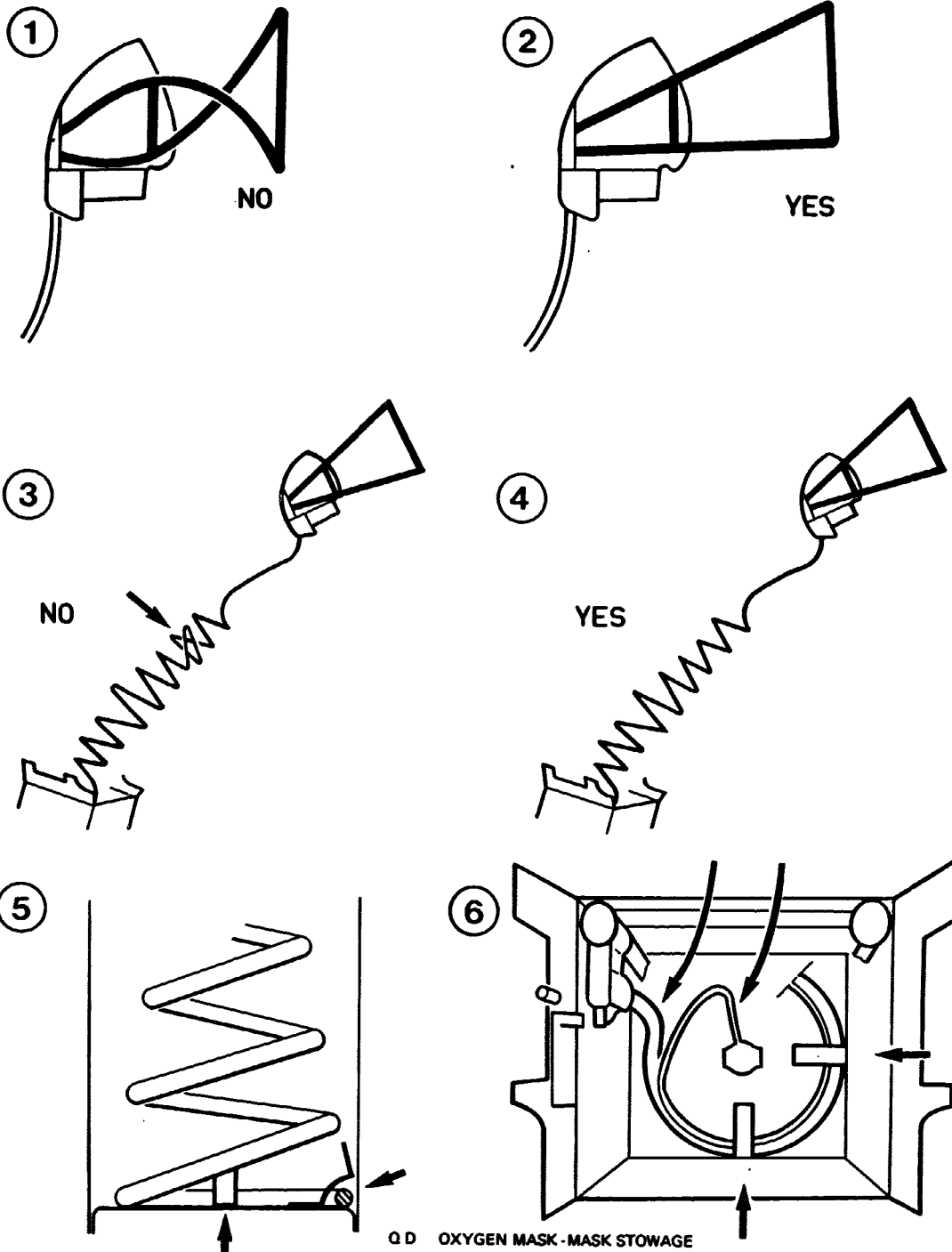
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Q D OXYGEN MASK - MASK STOWAGE

Quick-Donning Mask Stowage Operational Sequence
Figure 020

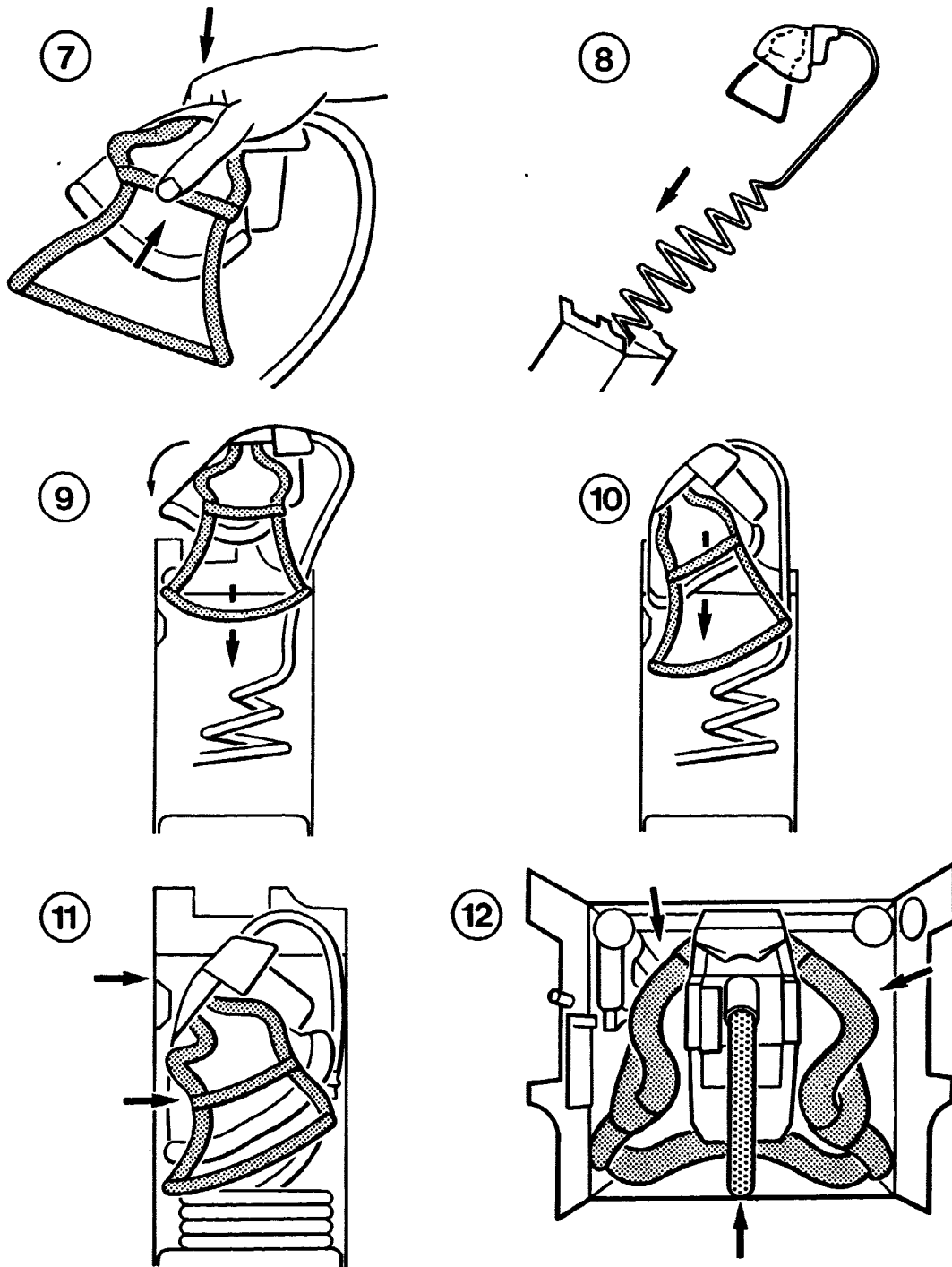
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Quick-Donning Mask Stowage Operational Sequence
Figure 021

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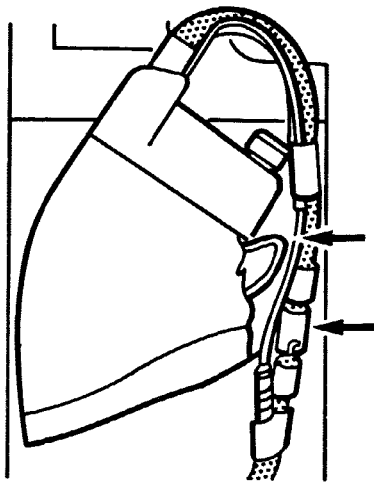
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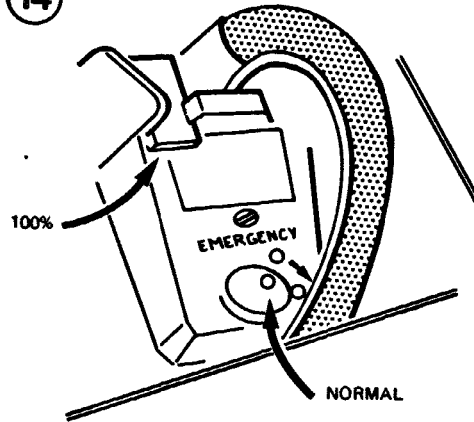
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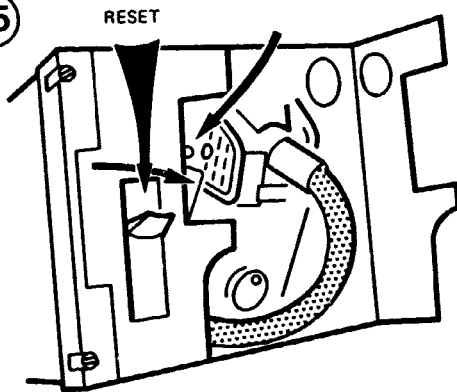
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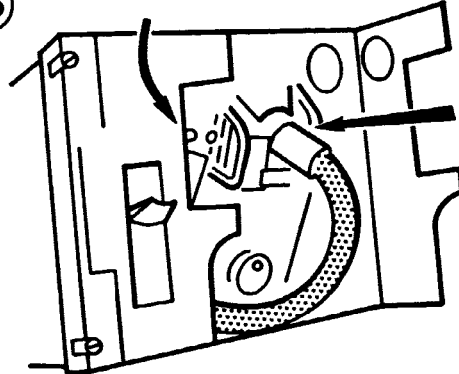
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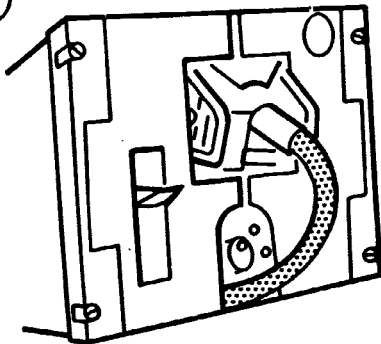
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TO
"IN SITU
TESTING"**

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Quick-Donning Mask Stowage Operational Sequence
Figure 022

EFFECTIVITY: ALL

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- During periodical inspection
- (2) Tests performed before and after flight by the flight crew
- (a) Pre-flight tests
- The following operations must be performed in sequence :
- 1 On the control and monitoring panel
 - Pushbutton switch : OFF legend on
 - Low pressure indicator : pressure indication equal or close to 0 thus proving that post-flight tests have been performed and that the oxygen supply valve is closed.
 - High pressure indicator : pressure indication must be that selected by the flight crew for the scheduled flight (Ref. Fig. 014)
 - Pushbutton switch : OFF legend off.
 - Low pressure indicator : indication of pressure shows that the oxygen supply valve operates correctly.
 - Pressure indication must stabilize in the green range.
 - 2 At the mask stowage box
 - Perform a box test in-situ following the operations described (Ref. Fig. 023, 024, 025)
 - The analysis of the actions carried out is as follows :
 - Action 1 checks :
 - blinker operation
 - regulator supply
 - system sealing downstream of the valve as well as regulator sealing
 - Action 2 checks :
 - harness supply and sealing
 - Action 3 checks :
 - regulator demand system operation
 - regulator sealing
 - mask microphone operation
 - Action 4 checks :
 - valve control slide operation and eliminates all oxygen pressure in the system downstream of this valve.
 - Action 5 checks :
 - the mechanical operation of the Normal 100 % control as well as its locking on the 100 % position
- (b) Post flight tests
- The test below is to be carried out for the two following reasons :
- elimination of all oxygen pressure in the distribution systems
 - checking of the operating condition for the following equipment :
 - emergency rotation knob
 - supply valve
 - low pressure indicator
- The test consists in a crew member acting simultaneously on the valve control slide and on the emergency rotation knob of its mask stowage box and in checking the pressure drops on the low pressure indicator on the control and monitoring panel

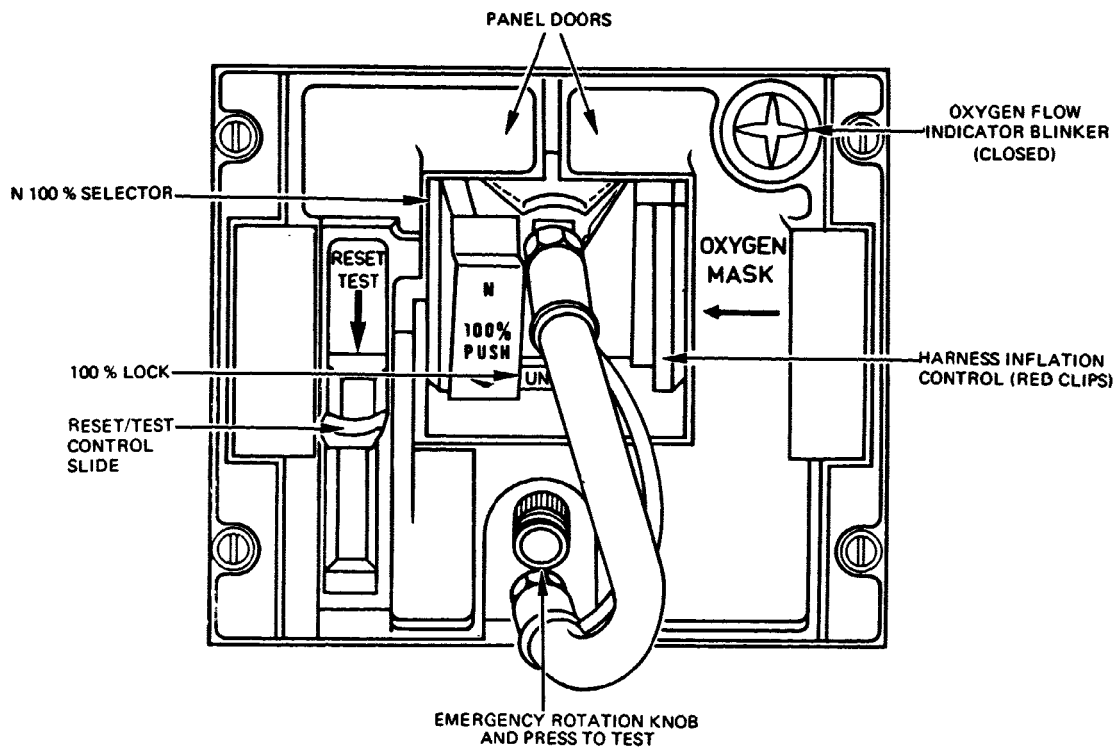
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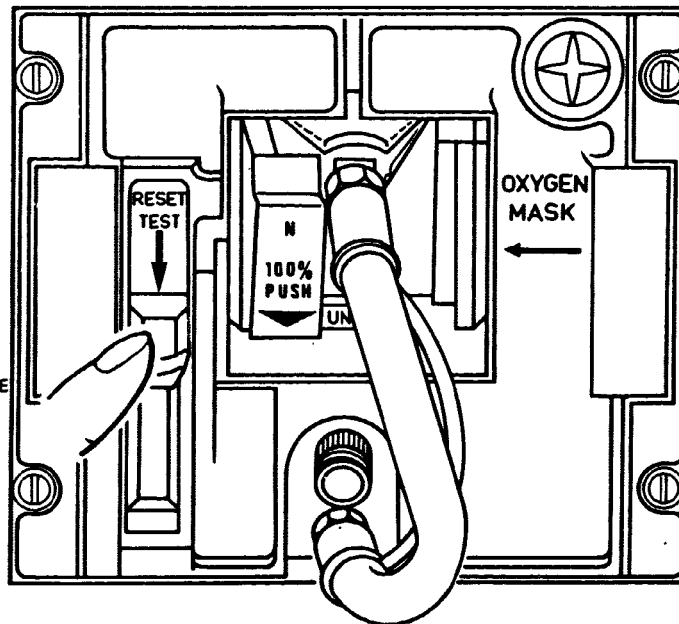
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STEP N 1

PRESS RESET/TEST CONTROL SLIDE IN THE DIRECTION OF THE ARROW



BLINKER TURNS YELLOW FOR A VERY SHORT TIME AND GOES BLACK AGAIN SHOWING THAT REGULATOR IS LEAK TIGHT.

Quick-Donning Oxygen Mask in Situ Check Out
Operational Step
Figure 023

EFFECTIVITY: ALL

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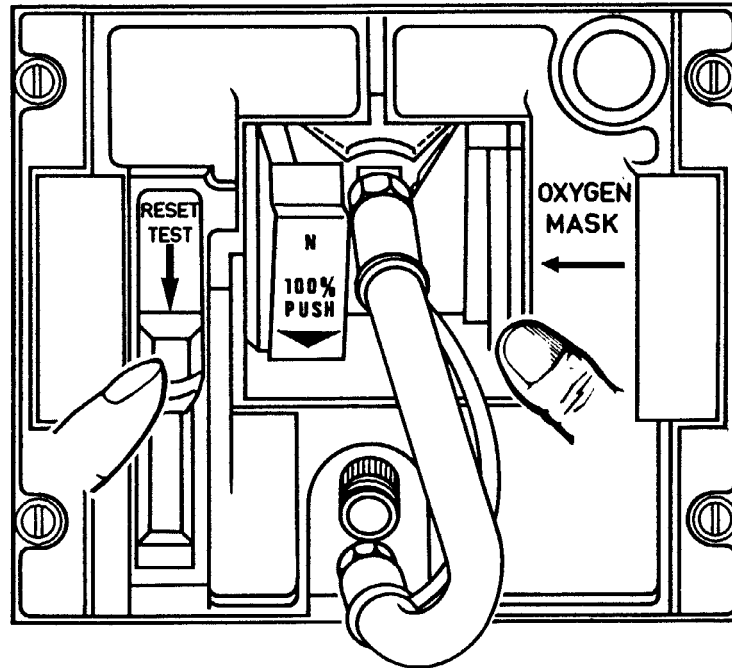
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STEP N 2

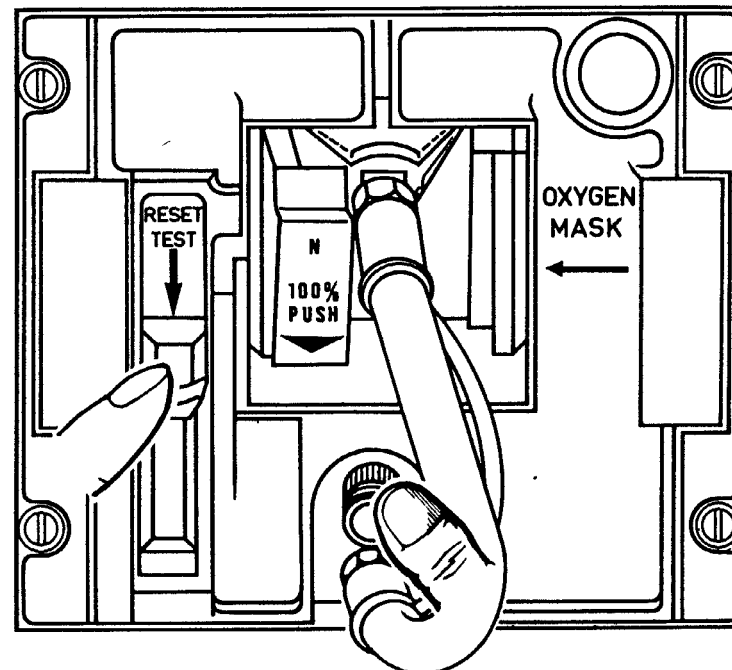
MAINTAIN THE RESET
TEST CONTROL SLIDE
IN THE DOWN POSITION



PRESS THE HARNESS
INFLATION CONTROL
AND OBSERVE THE
BLINKER TURNS
YELLOW FOR A VERY
SHORT TIME AND
GOES BLACK AGAIN
SHOWING THAT
HARNESS IS LEAK
TIGHT

STEP N 3

MAINTAIN THE RESET/
TEST CONTROL/SLIDE
IN THE DOWN POSI-
TION



PRESS THE SPRING
LOADED EMERGEN-
CY KNOB AND OB-
SERVE THE BLINKER
TURNS YELLOW AND
REMAINS IN THIS
CONDITION FOR AS
LONG AS THE EMER-
GENCY KNOB IS
PRESSED TO TEST
THE CORRECT OPERA-
TION OF THE MASK
REGULATE.

NOTE : THE MASK MICROPHONE MAY ALSO BE CHECKED AT THIS TIME BY CONNECTING IT TO THE INTERPHONE SYSTEM. THE SOUND OF OXYGEN FLOWING PAST THE MICROPHONE CAN BE HEARD EITHER THROUGH THE LOUD SPEAKERS OR THROUGH THE HEAD SET (EXCEPT FOR THE FOLDING SEAT OCCUPANT MASK.)

Quick-Donning Oxygen Mask in Situ Check Out
Operational Step
Figure 024

EFFECTIVITY: ALL

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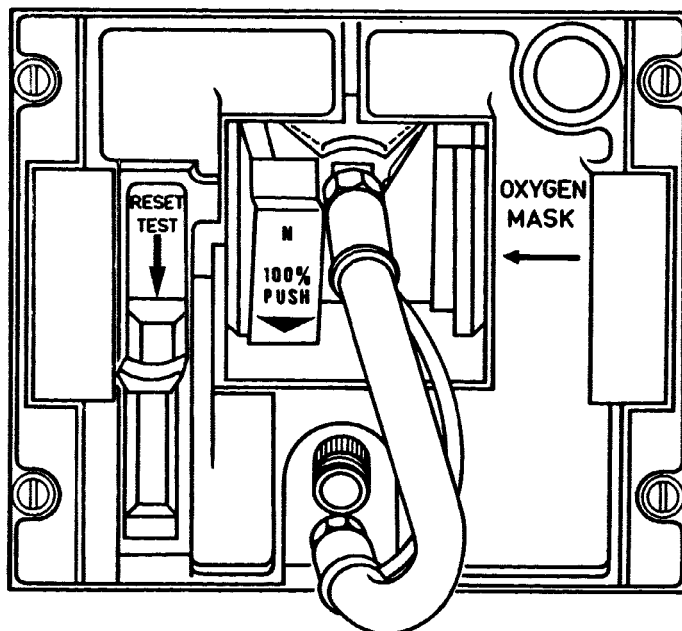
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STEPS N° 4 AND N° 5

WHEN THE 3 PREVIOUS TESTS HAVE BEEN CARRIED OUT ENSURE THAT :

- RESET/TEST CONTROL SLIDE RETURNS TO THE UP POSITION
- N - 100 % SELECTOR IS LOCKED IN THE 100 % POSITION



Quick-Donning Oxygen Mask in Situ Check Out
Operational Step
Figure 025

EFFECTIVITY: ALL

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AIRCRAFT MAINTENANCE MANUAL

R OXYGEN DISTRIBUTION - MAINTENANCE PRACTICES

R 1. Reason for the Job

Replacement of the overboard discharge indicator and cleaning of the oxygen hoses.

2. Equipment and Materials

ITEM	DESIGNATION
A.	Access Platform 2.60 m (8 ft.6 in.)
B. Material No. 05-004	Special Materials (Ref. 20-31-00)
C.	Torque Wrench 0 to 6 m.daN (0 to 44 lbf.ft)
D.	Circuit Breaker Safety Clips
E.	Retaining Ring
F.	Indicator Disc
G.	Conical Seal
H.	Blanking Plugs/Caps
J.	Sealed Vinyl Bag
K.	Adjustable Access Platform
L.	LP Air Source (filtered, no oil)
M.	Lint-free Cloth
Referenced Procedure	
- 24-41-00, P. Block 301	Servicing AC External Power Control

3. Procedure

WARNING : PERSONNEL IN CHARGE OF CARRYING OUT THE ACTIONS BELOW MUST BE AWARE OF THE RISKS INVOLVED IN HANDLING OXYGEN, WHICH ENHANCES COMBUSTION IN THE PRESENCE OF FUEL, AND BECOMES EXPLOSIVE IN THE PRESENCE OF HYDROCARBONS (FUELS, LUBRICANTS).

A. Job Set-Up

WARNING : BEFORE ANY ACTION, PERSONNEL SHOULD CLEAN TOOLS AND ENSURE THAT THEIR HANDS ARE CLEAN TO AVOID CONTAMINATION.

- (1)Position access platform at forward cargo compartment door.
- (2)Open forward cargo compartment door.
- (3)Open access door 132AZ.
- (4)Energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
- (5)Open oxygen cylinder storage compartment access door.
- (6)Check that oxygen supply valve is open.
- (7)Close cylinder valve.
- (8)Bleed oxygen systems using a crew mask and operate the RESET TEST control slide until LP indicator reading is at its lowest.
- (9)Open, safety and tag the following circuit breaker :

PANEL	SERVICE	IDENT.	LOCATION
22VU	OXYGEN/CREW	18HT	208/B28

EFFECTIVITY: ALL

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B. Replacement of the Overboard Discharge Indicator

WARNING : BEFORE DISASSEMBLING, MAKE CERTAIN THAT SYSTEMS ARE NOT PRESSURIZED.

WHEN DISASSEMBLED TEMPORARILY, ANY PIPE OR UNIT SHOULD HAVE THE ENDS PROTECTED BY A DRY AND CLEAN METAL OR PLASTIC PLUG, AND BE PLACED IN A SEALED VINYL BAG.

(Ref. Fig. 201)

- (1) Disconnect the oxygen hose (7) from the oxygen cylinder valve (6)
 - (a) Disconnect the coupling (1) and discard the conical seal (2).
 - (b) Put a blanking plug on the oxygen cylinder valve (6).
 - (c) Put a sealed vinyl bag on the hose (7).
- (2) Disconnect the oxygen hose (8) from the manifold (5)
 - (a) Disconnect the coupling (4) and discard the conical seal (3).
 - (b) Put a blanking plug on the manifold (5).
 - (c) Put a sealed vinyl bag on the hose (8).
- (3) Blow air through the hoses connected to the overboard discharge indicator (9)
 - (a) Use a clean LP air source (filtered, no oil).
 - (b) Remove the sealed vinyl bag from the hoses (7) and (8).
 - (c) Blow air through the hoses two or three times (blow them one after the other to make sure that there are no unwanted objects in the system).
 - (d) Put blanking caps on the hoses (7) and (8).
- (4) Clean the body of the overboard discharge indicator (9)
 - (a) Put an adjustable access platform in position at zone 122.
 - (b) On the aircraft skin, remove and discard the retaining ring.
 - (c) Clean the body of the indicator with a clean lint-free cloth.
- (5) Install the disc of the overboard discharge indicator (9)
 - (a) Install the new disc with the green reflecting surface on the external side.
 - (b) Install the new retaining ring with the rounded edges on the external side.
- (6) Connect the oxygen hose (8) to the manifold (5)
 - (a) Remove the sealed vinyl bag and the blanking cap from the hose (8).
 - (b) Install a new conical seal (3) on the coupling (4).
 - (c) Remove the blanking plug from the manifold (5).
 - (d) Connect the coupling (4) to the manifold (5) and TORQUE to between 2.03 and 2.26 m.daN (14.8 and 16.4 lbf.ft).
- (7) Connect oxygen hose (7) to the oxygen cylinder valve (6)
 - (a) Remove the sealed vinyl bag and the blanking cap from the hose (7).
 - (b) Remove the blanking plug from the oxygen cylinder valve (6).
 - (c) Install a new conical seal (2) on the coupling (1).
 - (d) Connect the coupling (1) to the oxygen cylinder valve (6) and TORQUE to between 1.8 and 2 m.daN (13.3 and 14.7 lbf.ft).

C. Test

- (1) Apply Special Materials (Material No. 05-004) to each union.
- (2) Open cylinder valve very slowly 3 to 4 turns.
- (3) Wait approximately 90 seconds for system pressure to stabilize.
- (4) Fully open valve.
- (5) Check for leakage.

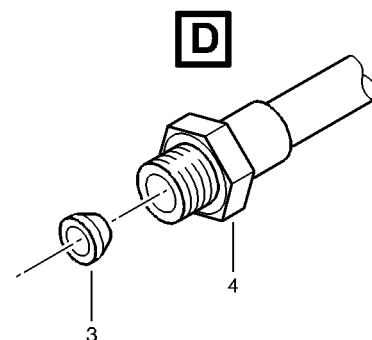
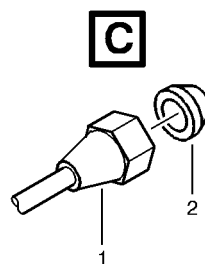
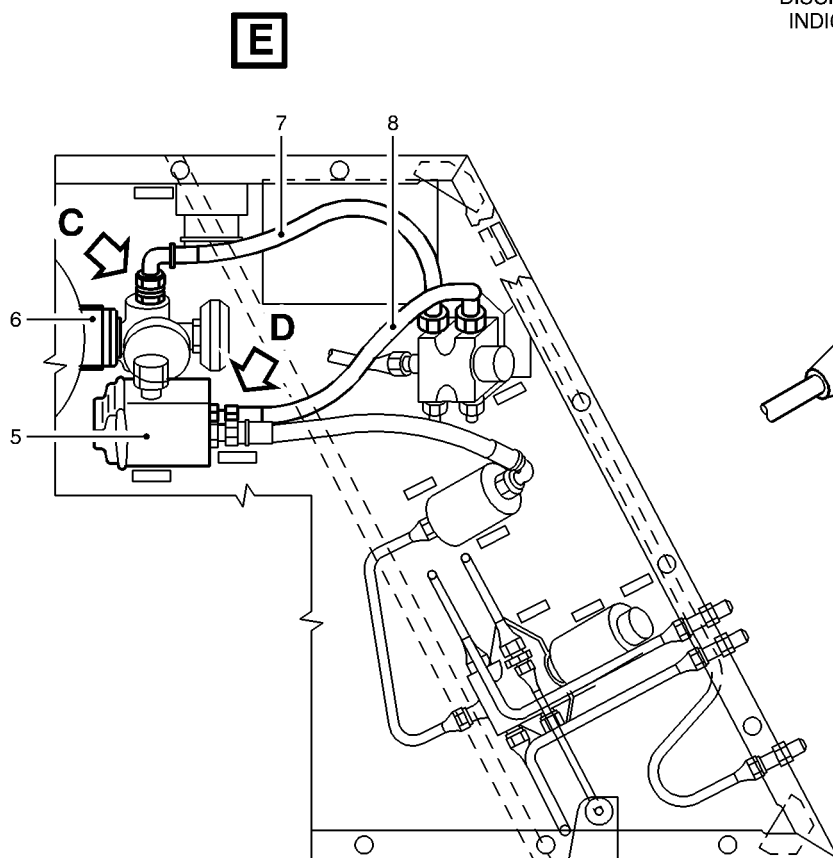
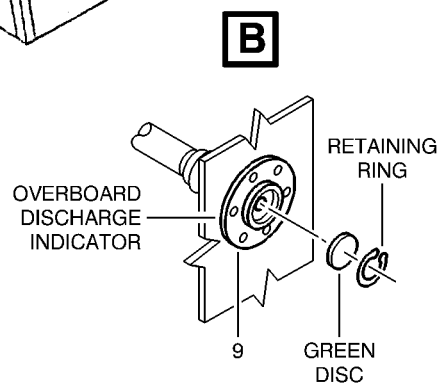
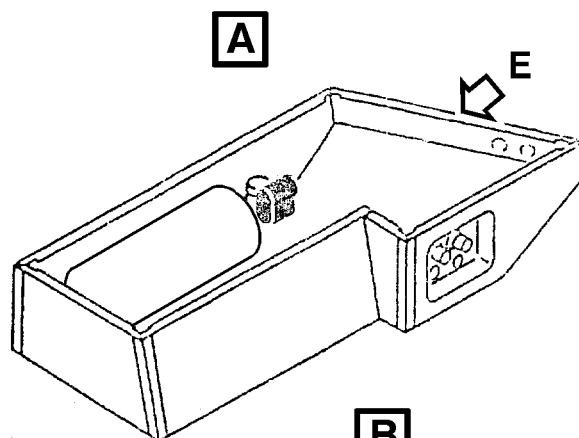
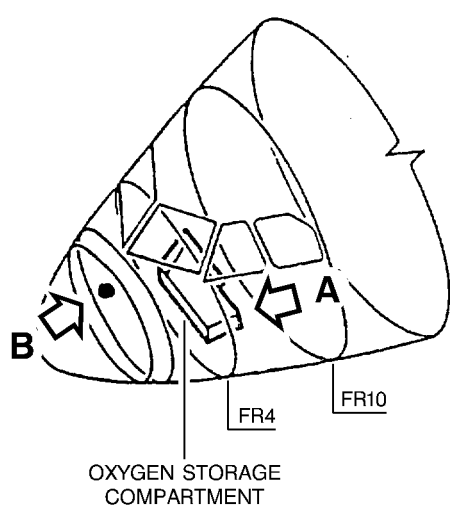
EFFECTIVITY: ALL

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Overboard Discharge Indicator
Figure 201

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(6)Wipe off Special Materials (Material No. 05-004) from each union.

D. Close-Up

- (1)Make sure that oxygen storage compartment is clean and clear of tools and miscellaneous items of equipment.
- (2)Close oxygen storage compartment access door.
- (3)Close access door 132AZ.
- (4)Close forward cargo compartment door.
- (5)Close circuit breaker 18HT.
- (6)De-energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
- (7)Remove access platforms.

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OXYGEN DISTRIBUTION - ADJUSTMENT/TEST

R 1. Operational Test

A. Reason for the Job

R (1) Operational test of cockpit and courier solenoid valves control

B. Equipment and Materials

ITEM	DESIGNATION
(1)	Access Platform 2 m (6 ft. 7 in.)
Referenced Procedure - 24-41-00, P. Block 301	AC External Power Control

C. Procedure

(1) Job set-up

(a) Position access platform

(b) Open access door 121BL.

(c) In avionics compartment open access door to cylinder storage compartment.

(d) Energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
Make certain that electronics racks ventilation is correct.

(e) Make certain that the following circuit breaker is closed :

PANEL	SERVICE	IDENT.	LOCATION
22VU	CREW OXYGEN	18HT	208/B28

(2) Test

ACTION	RESULT
(a) On panel 435VU : - press LO PR SUPPLY pushbutton switch (on position).	On panel 435VU : - LP gage pointer is in green band.
(b) In oxygen cylinder storage compartment - close cylinder valve.	On panel 435VU : - LP gage pointer does not move.
(c) On one of the mask stowage boxes, Move TEST RESET control slide several times	On panel 435VU : Low pressure gage pointer moves to zero.
(d) In oxygen cylinder storage compartment - open cylinder valve.	On panel 435VU : - LP gage pointer returns to Green band.

(3) Close-up

(a) On panel 435VU press to release LO PR SUPPLY pushbutton switch (OFF

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- position).
- (b) In avionics compartment, close access door to oxygen cylinder storage compartment.
 - (c) Close access door 121BL.
 - (d) Remove access platform
 - (e) De-energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).

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R

OXYGEN DISTRIBUTION - INSPECTION/CHECK

1. Reason for the Job

- A. Visual inspection of oxygen distribution system

2. Equipment and Materials

ITEM

DESIGNATION

- A. Access Platform 2 m (6 ft. 7 in.)

3. Procedure

WARNING : PERSONNEL IN CHARGE OF CARRYING OUT THE ACTIONS BELOW MUST BE AWARE OF THE RISKS INVOLVED IN HANDLING OXYGEN, WHICH ENHANCES COMBUSTION IN THE PRESENCE OF FUEL AND BECOMES EXPLOSIVE IN THE PRESENCE OF HYDROCARBONS (FUELS, LUBRICANTS).

A. Job Set-Up

- (1) Position access platform.
- (2) Open access door 121BL.

B. Inspection/Check

- (1) In avionics compartment and oxygen storage compartment :
 - (a) Make certain that LH and RH circuit distribution lines are free of damage or corrosion, and are not flattened or kinked.
 - (b) Check that these lines and their protective sleeves are secured correctly, and that the flight control cables neither rub against them nor against the protective sheaths on the couplings.
 - (c) Check that the coupling sheath ties are in correct condition.
 - (d) Check that couplings are correctly tightened on units.
 - (e) Make certain that electrical connectors are correctly connected on units.
- (2) In flight compartment
 - (a) Check correct attachment of units (control box, mask stowage boxes).

C. Close-Up

- (1) Close access door 121BL.
- (2) Remove access platform.

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OXYGEN SUPPLY VALVE - REMOVAL/INSTALLATION

1. Equipment and Materials

ITEM	DESIGNATION
A.	Access Platform 2 m (6 ft. 7 in.)
R B. Material No. 05-003B	Special Materials (Ref. 20-31-00)
C. Material No. 05-004	Special Materials (Ref. 20-31-00)
D.	Torque Wrench 0 to 3 m.daN (0 to 22.1 lbf. ft.)
E.	Circuit Breaker Safety Clips.
F.	Sealing Ring - Puritan
Referenced Procedure - 24-41-00, P. Block 301	AC External Power Control

2. Procedure

(Ref. Fig. 401)

WARNING : PERSONNEL IN CHARGE OF CARRYING OUT THE ACTIONS BELOW MUST BE AWARE OF THE RISKS INVOLVED IN HANDLING OXYGEN WHICH ENHANCES COMBUSTION IN THE PRESENCE OF FUEL AND BECOMES EXPLOSIVE IN THE PRESENCE OF HYDROCARBONS (FUELS, LUBRICANTS).

A. Job Set-Up

WARNING : BEFORE ANY ACTION, PERSONNEL SHOULD CLEAN TOOLS AND ENSURE THAT THEIR HANDS ARE CLEAN TO AVOID CONTAMINATION.

- (1) Position access platform.
- (2) Open access door 121BL.
- (3) Open access door to cylinder storage compartment.
- (4) Close cylinder valve.
- (5) Bleed oxygen LP system using a crew mask and operating the RESET TEST control slide until LP indicator reading is at its lowest.
- (6) Open, safety and tag the following circuit breaker :

PANEL	SERVICE	IDENT.	LOCATION
22VU	OXYGEN/CREW	18HT	208/B28

B. Removal

WARNING : BEFORE DISASSEMBLING, MAKE CERTAIN THAT SYSTEMS ARE NOT PRESSURIZED. WHEN DISASSEMBLED TEMPORARILY, ANY PIPE OR UNIT SHOULD HAVE THE ENDS PROTECTED BY A DRY AND CLEAN METAL OR PLASTIC PLUG, AND BE PLACED IN A SEALED VINYL BAG.

- (1) Disconnect electrical connector (3).
- (2) Disconnect pipes (1) and (5) from oxygen supply valve.
Discard sealing rings (2) and (4).
- (3) Remove the two attachment screws (6) with nuts (9) and washers (8).
- (4) Remove oxygen supply valve (7).

C. Preparation of Replacement Component

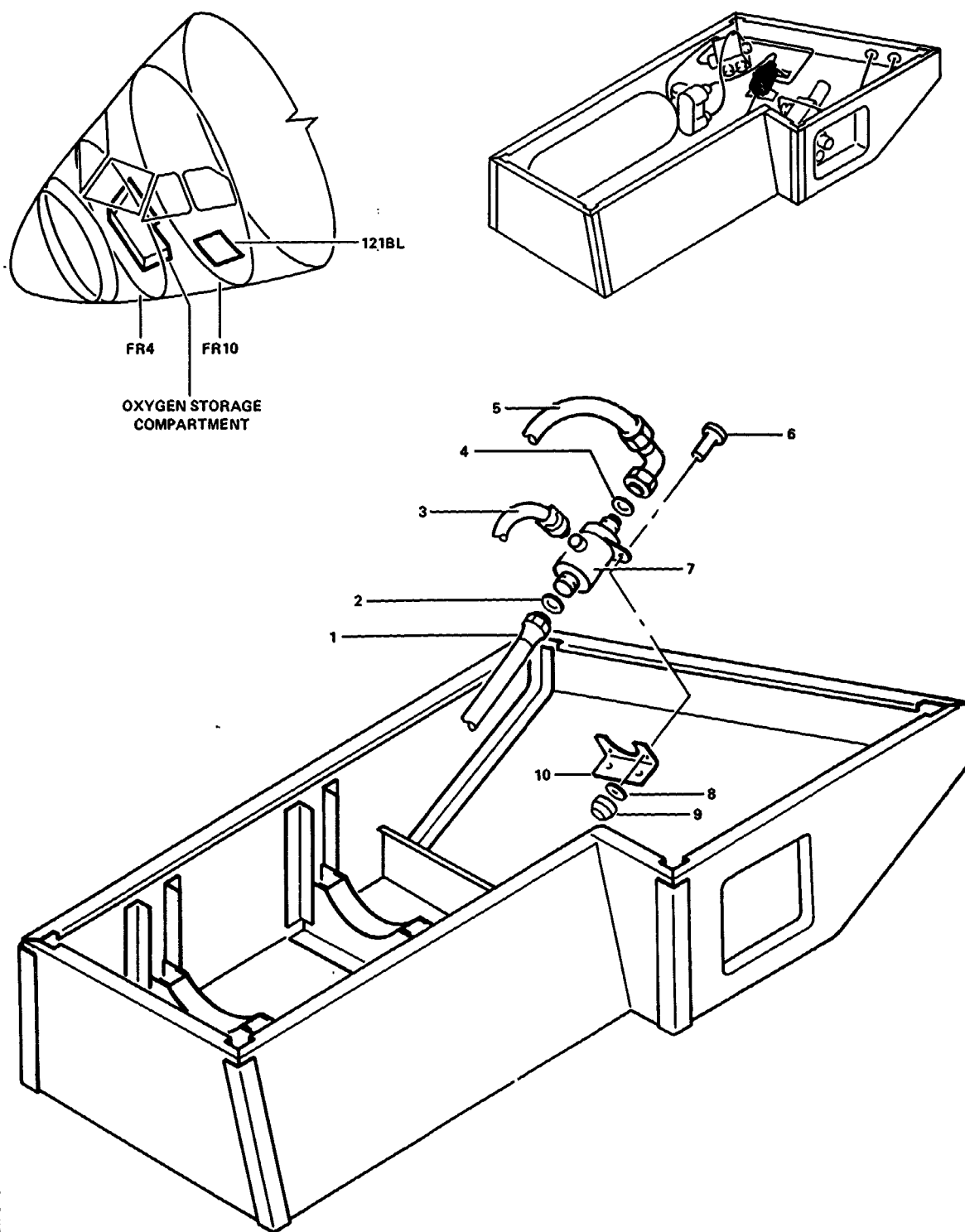
- (1) Visually check oxygen supply valve, threading and electrical connection

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Oxygen Supply Valve
Figure 401

EFFECTIVITY: ALL

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for correct condition.

D. Installation

- R **WARNING** : NO COMPOUND, EXCEPT SPECIAL MATERIAL No.05-003B MUST BE USED ON NUT THREADS OR ON THE FLARED PORTION OF THE TUBE.
THIS COMPOUND SHOULD BE USED SPARINGLY ON ALL FIRST THREE MALE THREADS.

- (1) Position oxygen supply valve (7) on its support bracket (10).
- (2) Install attachment screws (6), nuts (9) and washers (8).
- (3) Install new sealing ring and connect pipes (1) and (5) to valve, and TORQUE union nuts to between 2.03 m.daN and 2.26 m.daN (180 and 200 lbf.in.)
- (4) Connect electrical connector.

E. Test

- (1) Apply special material No.05-004 to pipe connections.
- (2) Remove safety clips and tags, and close circuit breaker 18HT.
- (3) Open cylinder valve very slowly, 3 to 4 turns.
- (4) Wait approximately 90 seconds for system pressure to stabilize.
- (5) Fully open valve.
- (6) Energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
Make certain that electronics racks ventilation is correct
- (7) On OXYGEN panel 435VU
 - on CREW/LO PR SUPPLY pushbutton switch, select OFF legend off.
 - make certain that LP gage pointer stabilizes in green band.
- (8) Check oxygen supply valve for absence of leakage.
- (9) Wipe off special material No.05-004.

F. Close-Up

- (1) On OXYGEN panel 435VU
 - on CREW/LO PR SUPPLY pushbutton switch, select OFF legend on.
- (2) Bleed oxygen LP system.
- (3) De-energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
- (4) Make certain that working area is clean and clear of tools and miscellaneous items of equipment.
- (5) Close access door to cylinder storage compartment.
- (6) Close access door 121BL.
- (7) Remove access platform.

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CONTROL BOX - REMOVAL/INSTALLATION

1. Equipment and Materials

ITEM	DESIGNATION
2.	Access Platform 2 m (6 ft. 7 in.)
Referenced Procedure	
- 35-12-00, P. Block 501	Oxygen Distribution

2. Procedure

R

(Ref. Fig. 401)

R

A. Job Set-Up

- (1) Position access platform.
- (2) Open access door 121BL.
- (3) Remove central access door (5) on electronics rack 90VU.
- (4) Open, safety and tag the following circuit breaker :

PANEL	SERVICE	IDENT.	LOCATION
22VU	OXYGEN/CREW	18HT	208/B28

B. Removal

- (1) On control box (1) disconnect electrical connector (2).
- (2) Loosen and remove two screws (3), retain washers (4).
- (3) Remove control box (1).

C. Preparation of Replacement Component

- (1) Make certain that control box is not dented or scratched.
- (2) Make certain that electrical connector is in good condition.

D. Installation

- (1) Position control box (1) on its mounting.
- (2) Install screws (3) fitted with washers (4).
- (3) Connect electrical connector (2) to control box (1).
- (4) Remove safety clip and tag and close circuit breaker 18HT.

E. Test

Ref. 35-12-00, P. Block 501.

F. Close-Up

- (1) Install central access door (5) on electronics rack 90VU.
- (2) Close access door 121BL.

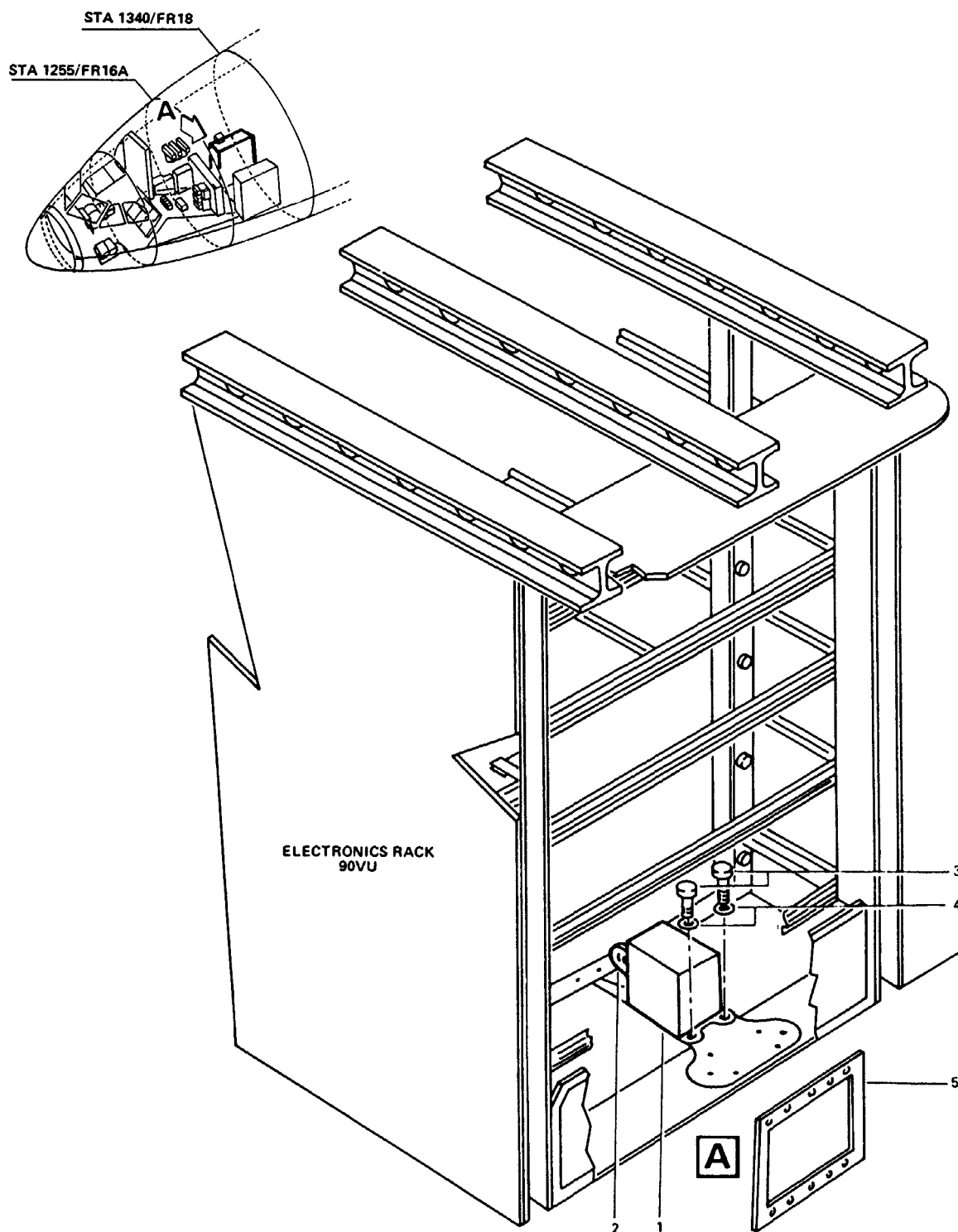
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Oxygen Control Box
Figure 401

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(3) Remove access platform.

R

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AIRCRAFT MAINTENANCE MANUAL

OXYGEN SUPPLY MANIFOLD - REMOVAL/INSTALLATION

1. Equipment and Materials

ITEM	DESIGNATION

A.	Access Platform 2 m (6 ft. 7 in.)
R B. Material No. 05-003B	Special Materials (Ref. 20-31-00)
C. Material No. 05-004	Special Materials (Ref. 20-31-00)
D.	Sealing Ring - PURITAN
Referenced Procedure	
- 24-41-00, P. Block 301	AC External Power Control

2. Procedure

(Ref. Fig. 401)

WARNING : PERSONNEL IN CHARGE OF CARRYING OUT THE ACTIONS BELOW MUST BE AWARE OF THE RISKS INVOLVED IN HANDLING OXYGEN WHICH ENHANCES COMBUSTION IN THE PRESENCE OF FUEL AND BECOMES EXPLOSIVE IN THE PRESENCE OF HYDROCARBONS (FUELS, LUBRICANTS).

A. Job Set-Up

WARNING : BEFORE ANY ACTION, PERSONNEL SHOULD CLEAN TOOLS AND ENSURE THAT THEIR HANDS ARE CLEAN TO AVOID CONTAMINATION.

BEFORE DISASSEMBLING, MAKE CERTAIN THAT SYSTEMS ARE NOT PRESSURIZED. WHEN DISASSEMBLED TEMPORARILY, ANY PIPE OR UNIT SHOULD HAVE THE ENDS PROTECTED BY A DRY AND CLEAN METAL OR PLASTIC PLUG, AND BE PLACED IN A SEALED VINYL BAG.

- (1)Position access platform.
- (2)Open access door 121BL.
- (3)Open cylinder storage compartment access door.
- (4)Shut off cylinder valves.
- (5)Bleed the system.
- (6)Open, safety and tag the following circuit breaker :

-----		-----	
PANEL	SERVICE	IDENT.	LOCATION
-----		-----	
22VU	CREW OXYGEN	18HT	210/D13

B. Removal

- (1)Disconnect pipe (1) and discard sealing rings.
- (2)Remove nut (2).
- (3)Remove test connector (3).

C. Installation

R **CAUTION** : NO COMPOUND, OTHER THAN SPECIAL MATERIAL No.05-003B MUST BE USED ON NUT THREADS OR ON THE FLARED PORTION OF THE TUBE.
THIS COMPOUND SHOULD BE USED SPARINGLY ON ALL FIRST THREE MALE THREADS.

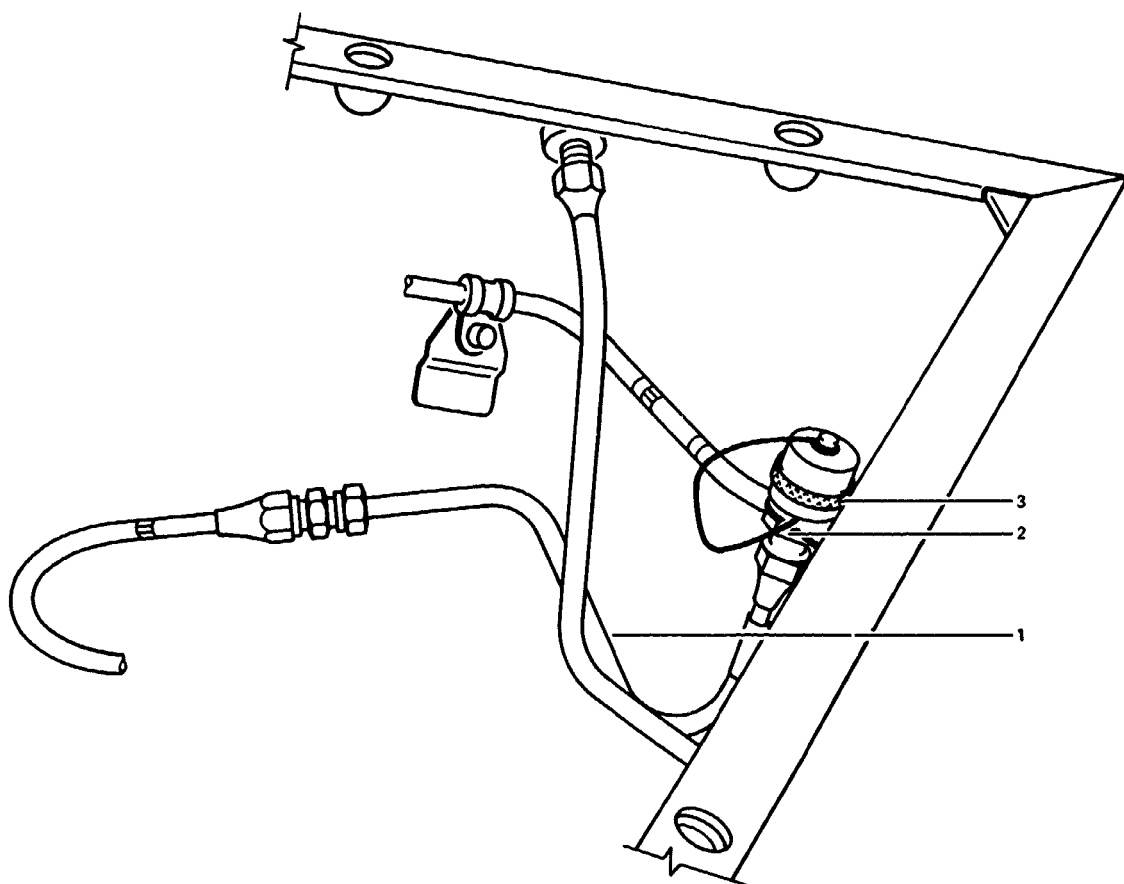
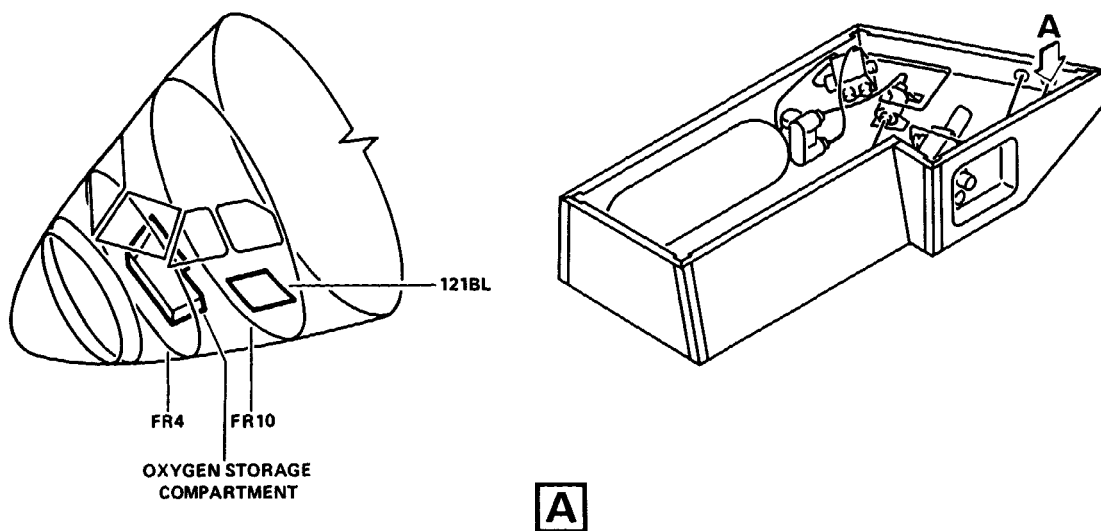
- (1)Install test connector (3).
- (2)Install and tighten nut (2).

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Oxygen Supply Manifold
Figure 401

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(3) Install new sealing rings and connect pipe (1).

D. Test

- (1) Apply special Material No.05-004 to each union.
- (2) Remove safety clips and tags and close circuit breaker 18HT.
- (3) Open oxygen cylinder valves very slowly, 3 1/2 to 4 turns.
- (4) Wait approximately 90 seconds for system pressure to stabilize.
- (5) Fully open cylinder valves.
- (6) Energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
Make certain that electronics racks ventilation is correct.
- (7) On OXYGEN panel 435VU
- press LO PR SUPPLY pushbutton switch.
- (8) Make certain that unions do not leak.
- (9) Wipe off any excess Material No.05-004.

E. Close-Up

- (1) Close cylinder storage compartment access door.
- (2) On OXYGEN panel 435VU, release LO PR SUPPLY pushbutton switch.
- (3) De-energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
- (4) Close access door 121BL.
- (5) Remove access platform.

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CREW QUICK DONNING OXYGEN MASK - REMOVAL/INSTALLATION

R **WARNING** : OBEY THESE SPECIAL PRECAUTIONS WHEN YOU DO THIS PROCEDURE:

- R - STOP ALL REFUELING, ALL REPAIRS ON FUEL AND HYDRAULIC SYSTEMS, AND
R ALL PROCEDURES THAT USE FLAMMABLE MATERIALS SUCH AS CLEANING AND
R DE-ICING MATERIALS.
- R - PUT A WARNING NOTICE IN THE COCKPIT, THE WORK AREA AND THE CABIN TO
R TELL PERSONS NOT TO OPERATE ELECTRICAL SWITCHES DURING THE OXYGEN
R SYSTEM MAINTENANCE PROCEDURE.
- R - MAKE SURE THAT YOU OBEY ALL THE APPLICABLE SAFETY PRECAUTIONS WHEN
R YOU WORK ON THE OXYGEN SYSTEM OR WITH OXYGEN EQUIPMENT.
- R - MAKE SURE THAT THERE IS A GOOD FLOW OF AIR THROUGH THE WORK AREA TO
R KEEP THE CONCENTRATION OF OXYGEN IN THE WORK AREA AT A SAFE LEVEL.

1. Removal/Installation of Oxygen Mask Stowage Box

A. Equipment and Materials

ITEM	DESIGNATION
(1)	Access Platform 2.6 m (8 ft. 6 in.)
R (2)	Warning Notices
(3)	Circuit Breaker Safety Clips
(4)	Torque Wrench 0 to 3 m.daN (0 to 22.1 lbf.ft.)
(5)Material No. 05-003B	Special Materials (Ref. 20-31-00)
(6)Material No. 05-004	Special Materials (Ref. 20-31-00)
Referenced Procedures	
- 23-51-00, P. Block 501	Audio Integrating
- 24-41-00, P. Block 301	AC External Power Control
- 35-12-51, P. Block 501	Crew Quick Donning Oxygen Mask Assembly

B. Procedure

(Ref. Fig. 401)

WARNING : PERSONNEL IN CHARGE OF CARRYING OUT THE ACTIONS BELOW MUST BE AWARE OF THE RISKS INVOLVED IN HANDLING OXYGEN WHICH ENHANCES COMBUSTION IN THE PRESENCE OF FUEL AND BECOMES EXPLOSIVE IN THE PRESENCE OF HYDROCARBONS (FUELS, LUBRICANTS).

(1)Job Set-up

WARNING : BEFORE ANY ACTION, PERSONNEL SHOULD CLEAN TOOLS AND ENSURE THAT THEIR HANDS ARE CLEAN TO AVOID CONTAMINATION.

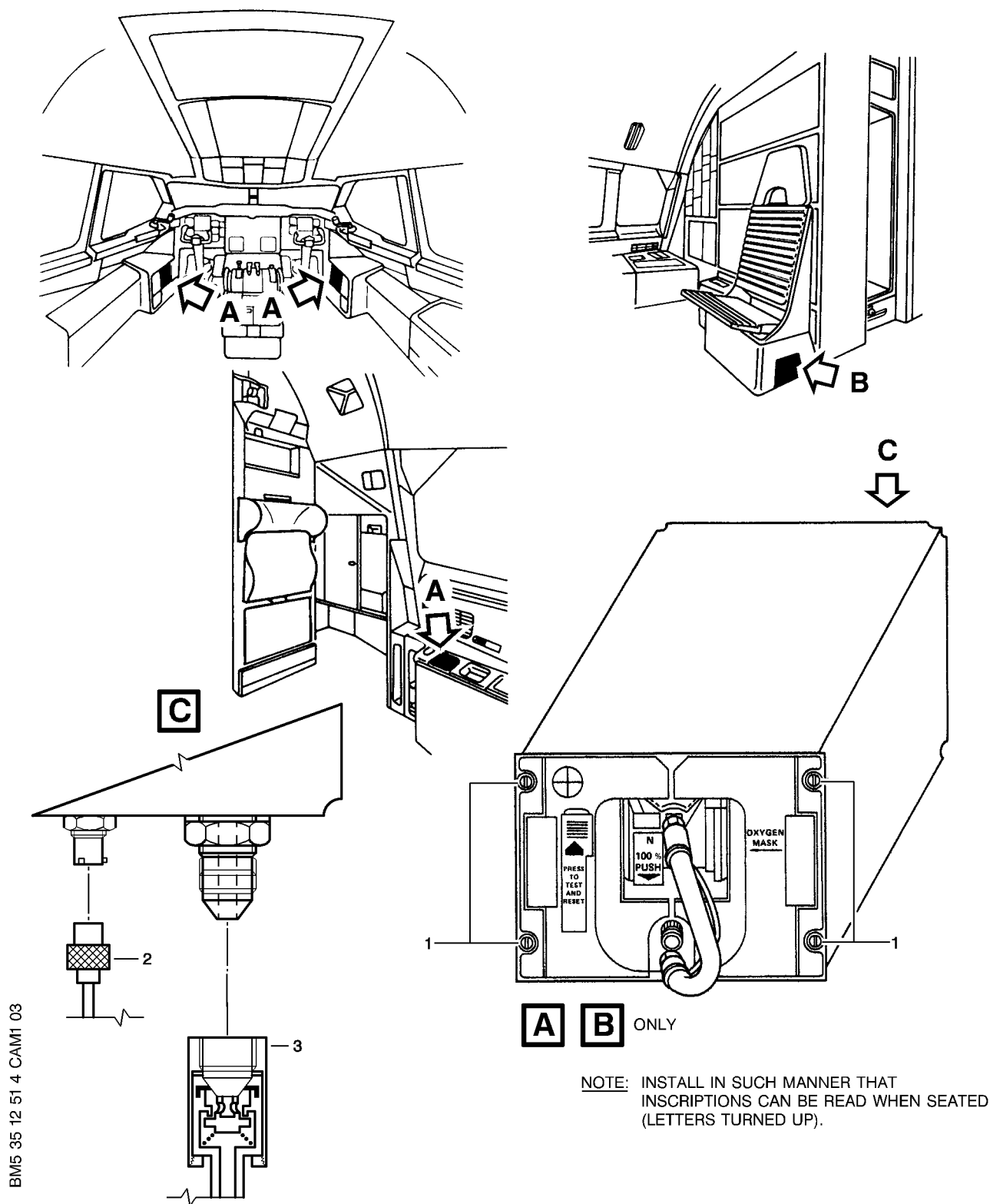
- R (a)Put the warning notices in position (cockpit and avionics bay/cylinder
R compartment) to tell persons not to perform fueling procedures,
R cleaning/degreasing of the engine and or other parts.
R (b)Position the access platform at the forward cargo compartment door.

EFFECTIVITY: ALL

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Crew Quick Donning Oxygen Mask
Figure 401

R

EFFECTIVITY: ALL

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- R (c)Open the forward cargo compartment door.
- R (d)Remove the oxygen cylinder storage compartment lining panel.
- R (e)Open the access door 132AZ to the cylinder storage compartment.
- R (f)Close the cylinder valve.
- R (g)Push the CREW/LO PR SUPPLY pushbutton switch (OFF legend not illuminated).
- R (h)Bleed the oxygen system by operating the RESET TEST control slide/push button and at the same time pressing the PRESS TO TEST/EMERGENCY knob on the mask regulator until the LP indicator reading is at its lowest.
- R (j)Push the CREW/LO PR SUPPLY pushbutton switch (OFF legend illuminates).
- R (k)Open, safety and tag the following circuit breaker:

PANEL	SERVICE	IDENT.	LOCATION
22VU	OXYGEN/CREW	18HT	208/B28

(2)Removal

WARNING : BEFORE DISASSEMBLING, MAKE SURE THAT THE SYSTEMS ARE NOT PRESSURIZED. WHEN DISASSEMBLED TEMPORARILY, ANY PIPE OR UNIT SHOULD HAVE THE ENDS PROTECTED BY A DRY AND CLEAN METAL PLUG, AND BE PLACED IN A SEALED VINYL BAG.

- R (a)Remove the four dzus fasteners (1).
- (b)Remove the oxygen mask stowage box from its housing.
- (c)Disconnect the microphone lead connector (2).
- (d)Unscrew the coupling (3) from the mask stowage box union.
- (3)Preparation of the Replacement Component
Visually check the mask stowage box, union threads and microphone lead connection for correct condition.

(4)Installation

CAUTION : NO COMPOUND, OTHER THAN MATERIAL No. 05-003B MUST BE USED ON NUT THREADS. THIS COMPOUND SHOULD BE USED SPARINGLY ON FIRST THREE MALE THREADS.

- R (a)Remove the vinyl bag and protective plug at end of the line.
- R (b)Screw the coupling (3) on the mask stowage box union.
- R (c)Connect the microphone lead connector (2).
- R **NOTE** : The mask must be installed in the mask stowage box before performing the stowage box leak test.
- R (d)Do the test before installing mask stowage box in its housing (Ref. Para. 1.B.(5)).
- R (e)Install the mask stowage box assy in its housing.
- R (f)Lock the four dzus fasteners (1).
- R (g)Do a microphone test (Ref. 23-51-00, P Block 501).

(5)Test

- R (a)Apply special material (Material No. 05-004) to the pipe connections.
- R (b)Remove the safety clip and tag and close circuit breaker 18HT.
- R (c)In the cylinder compartment open the cylinder valve very slowly, 3 to 4 turns.
- (d)Wait approximately 90 seconds for system pressure to stabilize.
- (e)Fully open the valve.
- (f)Energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).

EFFECTIVITY: ALL

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- R (g)In the cockpit, on OXYGEN panel 435VU:
R - Push the CREW/LO PR SUPPLY pushbutton switch (OFF legend not
R illuminated).
- Make sure that the LP gage pointer stabilizes in the green band.
(h)Check the mask stowage box connection for absence of leakage.
(j)Wipe off special material (Material No. 05-004).
(6)Close-up
(a)On OXYGEN panel 435VU:
R - Push the CREW/LO PR SUPPLY pushbutton switch (OFF legend
R illuminates).
R (b)Bleed the oxygen system by operating the RESET TEST control slide/push
R button on the mask stowage box and at the same time pressing the PRESS
R TO TEST/EMERGENCY knob on the mask regulator until LP indicator
R reading is at its lowest.
(c)Do the operational test of the crew oxygen masks (Ref. 35-12-51,
P. Block 501).
(d)De-energize the aircraft electrical network (Ref. 24-41-00,
P. Block 301).
(e)Make sure that the work area is clean and clear of tools and
miscellaneous items of equipment.
R (f)Remove the warning notices.
R (g)Close the access door to the cylinder stowage compartment.
R (h)Close the access door 132AZ.
R (j)Close the forward cargo compartment door.
R (k)Remove the access platform.

2. Removal/Installation of the Full Face/Quick Donning Oxygen Mask

R **WARNING** : OBEY THESE SPECIAL PRECAUTIONS WHEN YOU DO THIS PROCEDURE:

- R - STOP ALL REFUELING, ALL REPAIRS ON FUEL AND HYDRAULIC SYSTEMS, AND
R ALL PROCEDURES THAT USE FLAMMABLE MATERIALS SUCH AS CLEANING AND
R DE-ICING MATERIALS.
R - PUT A WARNING NOTICE IN THE COCKPIT, THE WORK AREA AND THE CABIN TO
R TELL PERSONS NOT TO OPERATE ELECTRICAL SWITCHES DURING THE OXYGEN
R SYSTEM MAINTENANCE PROCEDURE.
R - MAKE SURE THAT YOU OBEY ALL THE APPLICABLE SAFETY PRECAUTIONS WHEN
R YOU WORK ON THE OXYGEN SYSTEM OR WITH OXYGEN EQUIPMENT.
R - MAKE SURE THAT THERE IS A GOOD FLOW OF AIR THROUGH THE WORK AREA TO
R KEEP THE CONCENTRATION OF OXYGEN IN THE WORK AREA AT A SAFE LEVEL.

A. Equipment and Materials

ITEM	DESIGNATION
(1)	Access Platform 2.6 m (8 ft. 6 in.)
(2)	Circuit Breaker Safety Clips
R (3)	Warning Notices
(4)Material No. 05-004	Special Materials (Ref. 20-31-00)

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ITEM	DESIGNATION
Referenced Procedure	
- 24-41-00, P. Block 301	AC External Power Control
- 23-51-00, P. Block 501	Audio Integrating
- 35-12-51, P. Block 501	Crew Quick Donning Oxygen Mask Assembly

B. Procedure

(Ref. Fig. 402)

WARNING : PERSONNEL IN CHARGE OF CARRYING OUT THE ACTIONS BELOW MUST BE AWARE OF THE RISKS INVOLVED IN HANDLING OXYGEN WHICH ENHANCES COMBUSTION IN THE PRESENCE OF FUEL AND BECOMES EXPLOSIVE IN THE PRESENCE OF HYDROCARBONS (FUELS, LUBRICANTS).

(1) Job Set-up

WARNING : BEFORE ANY ACTION, PERSONNEL SHOULD CLEAN TOOLS AND ENSURE THAT THEIR HANDS ARE CLEAN TO AVOID CONTAMINATION.

- R (a) Put the warning notices in position (cockpit and avionics bay/cylinder
- R compartment) to tell persons not to perform fueling procedures,
- R cleaning/degreasing of the engine and or other parts.
- R (b) Position the access platform at the forward cargo compartment door.
- R (c) Open the forward cargo compartment door.
- R (d) Open the access door 132AZ.
- R (e) Open the cylinder stowage compartment access door.
- R (f) Close the cylinder valve.
- R (g) Push the CREW/LO PR SUPPLY pushbutton switch (OFF legend not
- R illuminated).
- R (h) Bleed the oxygen system by operating the RESET TEST control slide/push
- R button and at the same time pressing the PRESS TO TEST/EMERGENCY
- R knob on the mask regulator until the LP indicator reading is at its
- R lowest.
- R (j) Push the CREW/LO PR SUPPLY pushbutton switch (OFF legend illuminates).
- R (k) Open, safety and tag the following circuit breaker:

PANEL	SERVICE	IDENT.	LOCATION
22VU	OXYGEN/CREW	18HT	208/B28

(2) Removal

WARNING : BEFORE DISASSEMBLING, MAKE SURE THAT THE SYSTEMS ARE NOT PRESSURIZED. WHEN DISASSEMBLED TEMPORARILY, ANY PIPE OR UNIT SHOULD HAVE THE ENDS PROTECTED BY A DRY AND CLEAN METAL PLUG, AND BE PLACED IN A SEALED VINYL BAG.

CAUTION : BE CAREFUL WHEN YOU DO MAINTENANCE OF THE FULL-FACE/QUICK-DONNING MASK(S). YOU CAN CAUSE DAMAGE TO THIS EQUIPMENT VERY EASILY IF YOU USE TOO MUCH FORCE OR THE INCORRECT CLEANING MATERIALS.

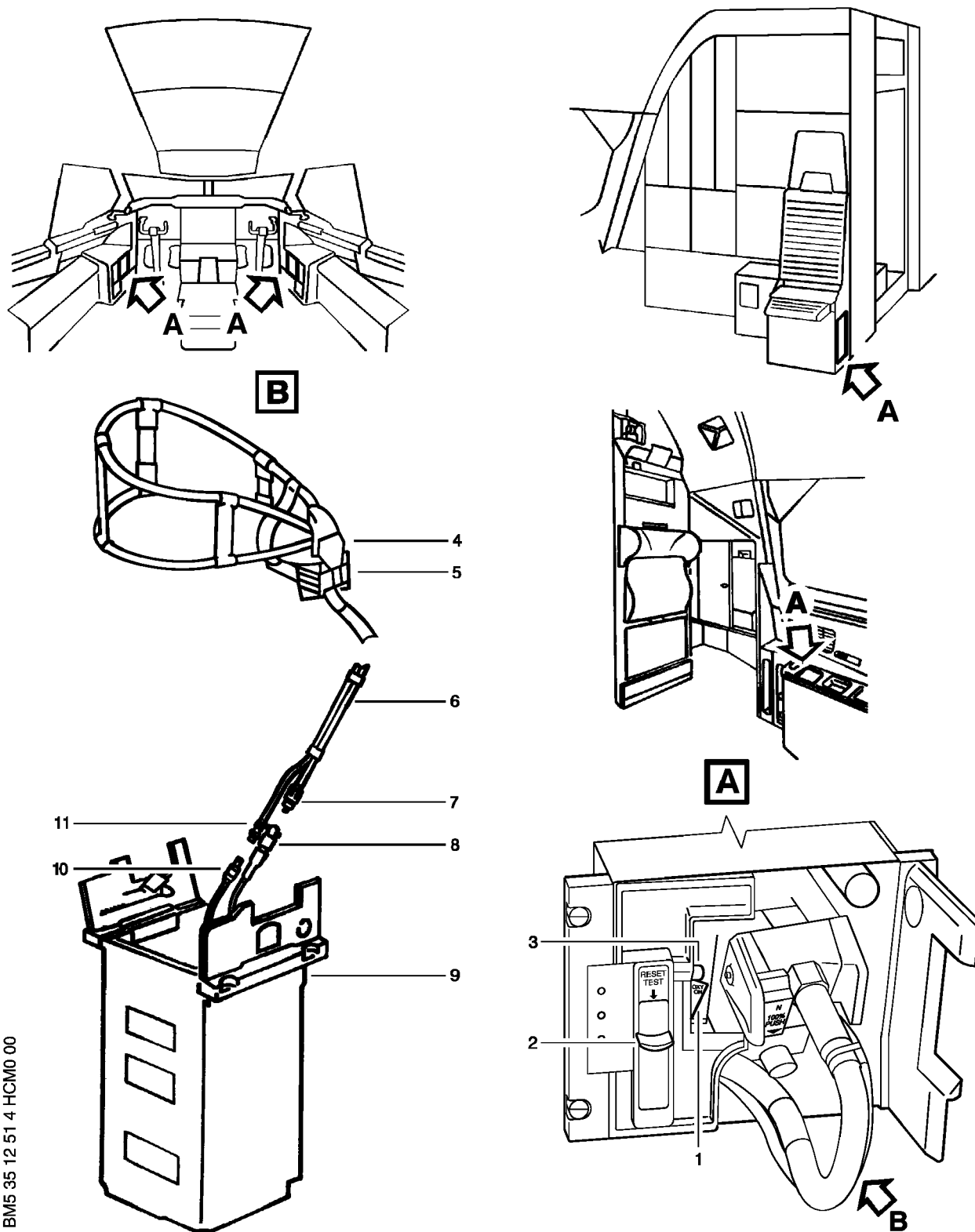
- R (a) Open doors of the stowage box (9).
- R (b) Remove the mask by grasping the red inflation lever (4) located on

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Full Face/Quick Donning Oxygen Mask
Figure 402

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- R the regulator (5).
- R (c)Disconnect electrical connectors (10) and (11).
- R (d)Put a blanking cap on the electrical connector (10).
- R (e)Disconnect QAD connectors (7) and (8).
- R (f)Put a blanking plug on the QAD connector (8).
- (3)Preparation of the Replacement Component
- (a)Make sure that the parts retained from the removed component are clean and in correct condition.
- (4)Installation
- CAUTION** : BE CAREFUL WHEN YOU DO MAINTENANCE OF THE FULL-FACE/QUICK-DONNING MASK(S). YOU CAN CAUSE DAMAGE TO THIS EQUIPMENT VERY EASILY IF YOU USE TOO MUCH FORCE OR THE INCORRECT CLEANING MATERIALS.
- (a)Open the stowage box doors.
- R (b)Remove the blanking cap from the electrical connector (10).
- R (c)Connect electrical connectors (10) and (11).
- R (d)Remove the blanking plug from the QAD connector (8).
- R (e)Connect the QAD connectors (7) and (8).
- R (f)Do the test (Ref. Para. 2.B.(5)).
- R (g)Make sure that the harness is relaxed and properly positioned behind the face piece.
- R (h)Grasp the mask regulator (5).
- R (j)Put the hose (6) into coils (do not turn regulator) and position the coils at the bottom of the stowage box.
- R (k)Press the harness into the stowage box (9), beginning with the back of the harness. Position the hose (6) to the middle to ensure proper alignment when doors are closed.
- R (l)Install the mask regulator (5) in the stowage box (9). Make sure that the mask regulator (5) is fully seated against the stop in the stowage box (9).
- R (m)Close the LH door of stowage box (9).
- R (n)When the LH door is closed, the OXY ON flag (1) comes in view.
- R (p)Thoroughly depress and release the RESET/TEST slide/push button (2). Make sure that the OXY ON flag (1) goes out of view behind the door.
- R (q)Insert the door pin (3) in the mating hole of the red inflation lever (4) located on the regulator (5).
- R (r)Make sure that the PRESS TO TEST/EMERGENCY knob is not in the EMERGENCY position. If it is in the EMERGENCY position, there can be a leak of oxygen.
- R (s)Close the RH door.
- R (t)Position the N/100% control in the 100% position.
- (5)Test
- R (a)Apply special material (Material No. 05-004) to the QAD connection.
- R (b)Remove the safety clip and tag and close circuit breaker 18HT.
- R (c)In the cylinder compartment open the cylinder valve very slowly, 3 to 4 turns.
- R (d)Wait approximately 90 seconds for system pressure to stabilize.
- R (e)Fully open the valve.
- R (f)Energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
- R (g)In the cockpit, on OXYGEN panel 435VU:
- R - Push the CREW/LO PR SUPPLY pushbutton switch (OFF legend not

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- R illuminated).
- Make sure that the LP gage pointer stabilizes in the green band.
- (h) On the mask regulator:
- 1 Set the N/100% dilution control to the 100% position.
 - 2 Make sure that the PRESS TO TEST/EMERGENCY knob is not in the EMERGENCY position. If it is in the EMERGENCY position, there can be a leak of oxygen.
- R (j) Check the QAD connection for absence of leaks.
- R (k) Wipe off special material (Material No. 05-004) from the QAD connection.
- R (l) Do a microphone test (Ref. 23-51-00, P. Block 501).
- (6) Close-up
- (a) On OXYGEN panel 435VU:
- R - Push the CREW/LO PR SUPPLY pushbutton switch (OFF legend illuminates).
- R (b) Bleed the oxygen system by operating the RESET TEST control slide/push button on the mask stowage box and at the same time pressing the PRESS TO TEST/EMERGENCY knob on the mask regulator until the LP indicator reading is at its lowest.
- R (c) Do the operational test of the crew oxygen masks (Ref. 35-12-51, P. Block 501).
- R (d) De-energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
- R (e) Make sure that the work area is clean and clear of tools and miscellaneous items of equipment.
- R (f) Remove the warning notices.
- R (g) Close the access door to cylinder stowage compartment.
- R (h) Close the access door 132AZ.
- R (j) Close the forward cargo compartment door.
- R (k) Remove the access platform.

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R QUICK DONNING OXYGEN MASK - ADJUSTMENT/TEST

1. Operational Test of Full Face/Quick Donning Oxygen Mask

A. Reason for the Job

R Operational check of crew oxygen system.

NOTE : The crew oxygen mask assembly is designed so as to perform an in situ test sequence.

B. Equipment and Materials

ITEM	DESIGNATION
(1)	Access Platform 4.50 m (14 ft. 9 in.)
Referenced Procedures	
- 23-51-00, P. Block 501	Audio Integrating
- 24-41-00, P. Block 301	AC External Power Control

C. Procedure

WARNING : PERSONNEL IN CHARGE OF CARRYING OUT THE ACTIONS BELOW MUST BE AWARE OF THE RISKS INVOLVED IN HANDLING OXYGEN WHICH ENHANCES COMBUSTION IN THE PRESENCE OF FUEL AND BECOMES EXPLOSIVE IN THE PRESENCE OF HYDROCARBONS (FUEL, LUBRICANTS).

(1) Job Set-up

- (a) Energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
- (b) Make certain that electronics rack ventilation is correct.
- (c) Install access platform at LH forward passenger/crew door.
- (d) Make certain that the following circuit breakers are closed:

PANEL	SERVICE	IDENT.	LOCATION
22VU	MIN EQPT BAY SUPPLY/OXYGEN/CREW	18HT	208/B28

- (e) On panel 435VU, press LO PR SUPPLY pushbutton switch (ON position).

(2) Test

- (a) Crew oxygen mask assembly test

ACTION	RESULT
1. Press RESET TEST control slide and hold throughout test.	- Flowmeter blinker operates very briefly.
2. Press harness inflation control lever.	- Flowmeter blinker operates and disappears relatively slowly.
3. Press pressure regulator test button for 1 second approximately.	- Blinker appears and disappears. - Oxygen flow must be audible in the headset. <u>NOTE</u> : Oxygen flow is audible in

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ACTION	RESULT
	the headset if on the concerned station audio selector panel the RADIO-INT PTT switch is placed simultaneously in INT position, if required (Ref. 23-51-00, P. Block 501), Operation test for the mask microphone and headset.
4. Release RESET TEST control slide.	- Control slide returns to original position.
5. Operate N/100 % control rocker on regulator, then return it to 100 % position.	- Control rocker operates and locks normally.

(3)Close-up

(a)On panel 435VU, press to release LO PR SUPPLY pushbutton switch (OFF position).

(b)De-energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).

(c)Remove access platform.

2. Functional Test of Demand Regulator Assembly

R A. Reason for the Job

R Remove quick donning oxygen masks and perform functional check of demand
R regulator assembly (off aircraft).

R B. Equipment and Materials

ITEM	DESIGNATION
Referenced Procedure - 35-12-51, P. Block 401	Quick Donning Oxygen Mask

R C. Procedure

(1)Job Set-up

(a)Remove full-face quick-donning oxygen mask (Ref. 35-12-51, P. Block 401).

(2)Test

(a)Do the test of demand regulator assembly in workshop.

(3)Close-up

(a)Install full-face quick-donning oxygen mask (Ref. 35-12-51, P. Block 401).

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CREW OXYGEN MASK ASSEMBLY - INSPECTION/CHECK

1. Reason for the Job

- A. Functional check of the crew oxygen mask assembly.

2. Equipment and Materials

ITEM	DESIGNATION
Not required	
Referenced Procedure	
- 24-41-00, P. Block 301	AC External Power Control

3. Procedure

WARNING : PERSONNEL IN CHARGE OF CARRYING OUT THE ACTIONS BELOW MUST BE AWARE OF THE RISKS INVOLVED IN HANDLING OXYGEN, WHICH ENHANCES COMBUSTION IN THE PRESENCE OF FUEL AND BECOMES EXPLOSIVE IN THE PRESENCE OF HYDROCARBONS : (FUELS, LUBRICANTS).

CAUTION : BE CAREFUL WHEN YOU DO MAINTENANCE OF THE FULL-FACE/QUICK-DONNING MASK(S). YOU CAN CAUSE DAMAGE TO THIS EQUIPMENT VERY EASILY IF YOU USE TOO MUCH FORCE OR THE INCORRECT CLEANING MATERIALS.

A. Job Set-Up

CAUTION : BEFORE ANY ACTION, PERSONNEL SHOULD CLEAN TOOLS AND ENSURE THAT THEIR HANDS ARE CLEAN TO AVOID CONTAMINATION.

- (1)Open crew door (819).
- (2)Energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
- (3)Make certain that electronics racks ventilation is correct.
- (3)Make sure that the following circuit breakers are closed:

PANEL	SERVICE	IDENT.	LOCATION
22VU	CREW OXYGEN	18HT	208/B28

- (4)On CREW OXYGEN panel, make sure that LO PR SUPPLY pushbutton switch is in ON position.

B. Inspection/Check

- (1)Visually check oxygen mask assembly.
- (2)Remove mask by grasping red inflation levers.
- (3)Check inflation of harness.
- (4)Check harness for leakage and cracks.
 - NOTE** : For smoke goggles, make sure that protective film (SAN-30) is not installed.
- (5)Check that displacement of both doors on mask assembly box is correct.
- (6)Visually inspect regulator and oxygen supply hose.
- (7)Check microphone cable.
- (8)Install mask in mask assembly box.
- (9)Make sure that doors are correctly closed.

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- R (10) Make sure that the N/100% dilution control is set to the 100% position.
R (11) Make sure that the PRESS TO TEST/EMERGENCY knob is not in the EMERGENCY
R position. If it is in the EMERGENCY position, there can be a leak of
R oxygen.
R (12) After check of the last oxygen mask assembly
 (a) Place LO PR SUPPLY pushbutton switch in OFF position.
 (b) Operate several times TEST RESET slide control, located on face of
 mask assembly box, until LP gage reading on CREW OXYGEN panel is
 at its lowest.

C. Check of the Correct Torque of the Retaining Screw

(Ref. Fig. 601)

- (1) Remove mask by grasping red inflation levers.
(2) Loosen retaining screw (2) from mask lock (1).
(3) TORQUE retaining screw (2) of mask lock (1) to 0.06 m.daN
(5.30 lbf.in) maximum.

D. Check of the Correct Position of the Mask Lock

(Ref. Fig. 601)

- (1) Make sure that mask lock (1) is correctly locked.
(2) Install mask in mask assembly box.
(3) Make sure that doors are correctly closed.
(4) After test of the last oxygen mask assembly
 (a) Place LO PR SUPPLY pushbutton switch in OFF position.
 (b) Operate several times TEST RESET slide control, located on face of
 mask assembly box, until LP gage reading on CREW OXYGEN panel is
 at its lowest.

E. Close-Up

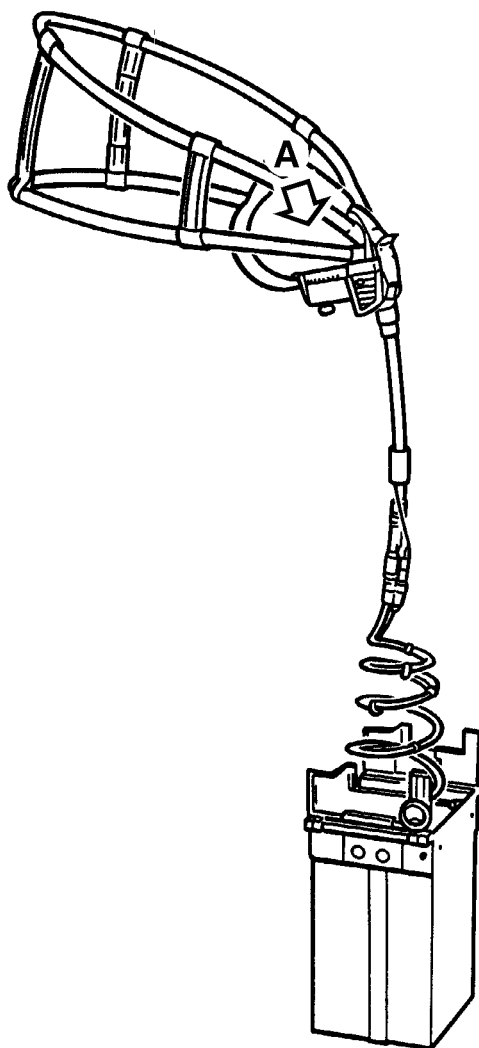
- (1) Remove access platform.
(2) De-energize the aircraft electrical network (Ref. 24-41-00,
 P. Block 301).

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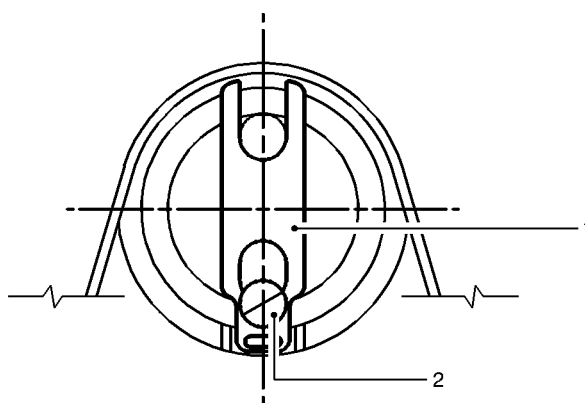
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A



Mask Lock and Retaining Screw
Figure 601

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CREW OXYGEN MASK ASSEMBLY - CLEANING/PAINTING

R 1. Reason for the Job

R A. Cleaning/Painting of the Crew Oxygen Mask Assembly.

R B. Lubrication of the Left Hand (LH) Door of the Full Face/Quick Donning Mask
R Stowage Box.

R 2. Cleaning/Painting of the Crew Oxygen Mask Assembly

CAUTION : WORK IN A DUST FREE AREA, AWAY FROM OIL AND HYDROCARBON COMPOUNDS.
BEFORE ANY ACTION PERSONNEL SHOULD CLEAN TOOLS AND ENSURE THAT
THEIR HANDS ARE CLEAN TO AVOID CONTAMINATION.

CAUTION : BE CAREFUL WHEN YOU DO MAINTENANCE OF THE FULL-FACE/QUICK-DONNING
MASK(S). YOU CAN CAUSE DAMAGE TO THIS EQUIPMENT VERY EASILY IF YOU
USE TOO MUCH FORCE OR THE INCORRECT CLEANING MATERIALS.

R A. Equipment and Materials

ITEM	DESIGNATION
R (1)	Lint-Free Cloth
R (2)	Soft Brush
R (3)	Terry Cloth
R (4)Material No. 11CKA1	Cleaning Agents (Ref. 20-31-00)
R (5)Material No. 08BPA1	Cleaning Agents (Ref. 20-31-00)
R (6)Material No. 11EAA1	Disinfectants (Ref. 20-31-00)
R Referenced Procedures	
R - 35-12-51, P. Block 401	Crew Quick Donning Oxygen Mask
R - 35-12-51, P. Block 501	Crew Quick Donning Oxygen Mask

R B. Procedure

R (1)Job set-up

R (a)Prepare the following detergent solution : Mix 1.5 cm³ (0.09 cu.in.)
R of cleaning agents (Material No. 11CKA1) with 4 liters (1 US gal) of
R clean water.

R (b)On panel 435VU, make sure that the OFF Legend of LO PR SUPPLY
R pushbutton switch is illuminated.

R (c)Remove the full face/quick donning oxygen mask (Ref. 35-12-51,
R P. Block 401).

R (2)Cleaning

R (a)Mask

R 1 Clean the mask with the detergent solution by using a soft brush or
R terry cloth.

R 2 Wipe the mask with a lint-free cloth and let it dry in the air.

R 3 Spray the internal surfaces of the mask with disinfectant
R (Material No. 11EAA1).

R (b)Mask regulator

R 1 Clean the parts other than those made of elastomer with cleaning

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- R agents (Material No. 08BPA1).
- R 2 Carefully dry them with a new lint-free cloth.
- R 3 Clean the elastomer parts with a detergent solution.
- R 4 Carefully dry them with a new lint-free cloth.
- R 5 Dry the mask regulator with dry, filtered, low pressure air.
- R (c)Mask stowage box
- R 1 Clean the box with a new, dry, lint-free cloth.
- R (3)Close-up
- R (a)Install the full face/quick donning oxygen mask (Ref. 35-12-51,
- R P. Block 401).
- R (b)Do an operational test of the full face/quick donning oxygen mask
- R (Ref. 35-12-51, P. Block 501).
- R 3. Lubrication of the Left Hand (LH) Door of the Full Face/Quick Donning Mask
- R Stowage Box

R **WARNING** : KEEP ALL HYDROCARBONS (FUELS, LUBRICANTS, ETC) AWAY FROM ALL

R SOURCES OF OXYGEN. OXYGEN BECOMES EXPLOSIVE WHEN IT TOUCHES

R HYDROCARBONS.

R **WARNING** : CLEAN THE TOOLS AND MAKE SURE THAT YOUR HANDS ARE CLEAN TO

R PREVENT CONTAMINATION OF THE OXYGEN SYSTEM.

R **WARNING** : BE CAREFUL WHEN YOU USE CONSUMABLE MATERIALS. OBEY THE MATERIAL

R MANUFACTURER'S INSTRUCTIONS AND YOUR LOCAL REGULATIONS.

R A. Equipment and Materials

R ITEM	DESIGNATION
R (1)	Lint-Free Cloth
R (2)	Soft Bristled Brush
R (3)	Cotton Swabs
R (4)	Cotton Buds
R (5)	Vinyl Bag
R (6)Material No. 08BBD1	Cleaning Agents (Ref. 20-31-00)
R (7)Material No. 14DDDB1	Release Agent - PTFE Loaded (Ref. 20-31-00)
R Referenced Procedures	
R - 24-41-00, P. Block 301	AC External Power Control
R - 35-00-00, P. Block 201	Oxygen - General
R - 35-12-51, P. Block 401	Crew Quick Donning Oxygen Mask
R - 35-12-51, P. Block 501	Crew Quick Donning Oxygen Mask

R B. Procedure

- R (Ref. Fig. 701)
- R (1)Job Set-up
- R (a)Obey the special precautions when you work on a gaseous oxygen system
- R (Ref. 35-00-00, P. Block 201).
- R (b)Connect the electrical ground power unit and energize the aircraft
- R electrical network (Ref. 24-41-00, P. Block 301).
- R (c)Make sure that the PRESS TO TEST/EMERGENCY knob is not in the
- R EMERGENCY position.

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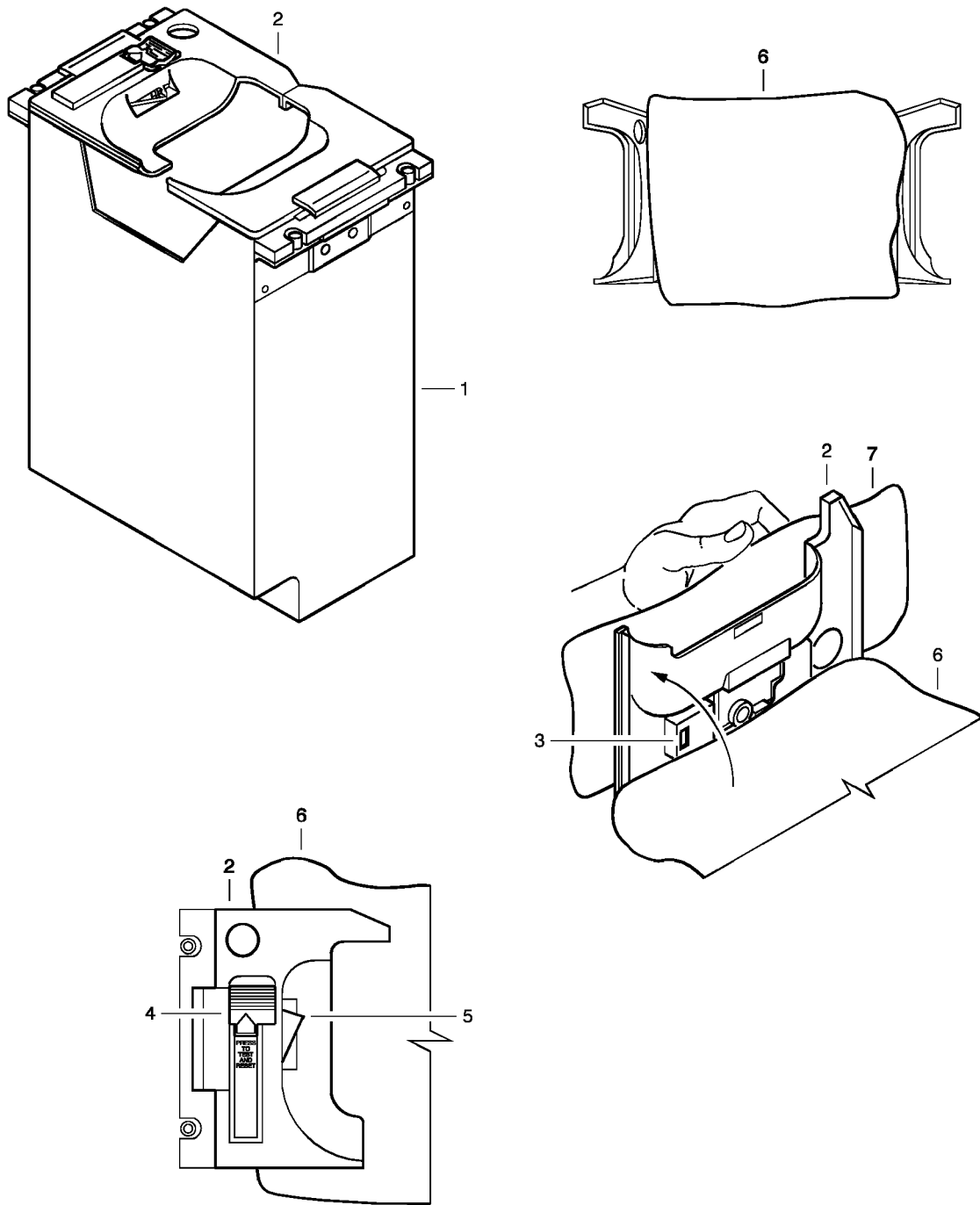
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- R (d) On panel 435VU, make sure that the OFF legend of the LO PR SUPPLY
R pushbutton switch is illuminated.
- R (e) Remove the full face/quick donning mask from the stowage box (1)
R by grasping the red lugs and pulling the mask out of the box.
- R (f) Put a vinyl bag around the mask for protection.
- R (2) Lubrication of the LH door mechanism of the stowage box
- R (a) Prevent contamination of the pneumatic circuit and the adjacent areas:
- R 1 Make sure that the LH door (2) of the stowage box (1) is open.
- R 2 Put the lint-free cloth (6) inside of the stowage box (1) and
R around it.
- R 3 Put the lint-free cloth (7) on the outer surface of the LH door (2)
R and the adjacent panels.
- R (b) Do the steps that follow before you apply the lubrication agent
R (Material No. 14DDDB1):
- R 1 Strongly shake the lubrication agent (Material No. 14DDDB1).
- R 2 Put the lubrication agent (Material No. 14DDDB1) head down and spray
R it into the lint-free cloth until there are no remaining white
R projections.
- R 3 Repeat steps 1 and 2 each time before you apply the lubrication
R agent (Material No. 14DDDB1).
- R (c) Apply the lubrication agent (Material No. 14DDDB1) for 2 seconds into
R the hole (3) at the bottom of the LH door (2).
- R (d) If you used too much lubrication agent (Material No. 14DDDB1), use
R the cotton swabs, cotton buds to remove the unwanted material.
- R (e) Close the LH door (2) and apply the lubrication agent (Material
R No. 14DDDB1) for 2 seconds behind the "PRESS TO TEST AND RESET" control
R lever (4).
- R (f) If you used too much lubrication agent (Material No. 14DDDB1), use
R the cotton swabs, cotton buds to remove the unwanted material.
- R (g) Wait about 5 minutes until the white signs come into view.
- R (h) Remove the lint-free cloth from the stowage box (1), the LH door (2)
R and the adjacent area.
- R (j) Make sure that the LH door (2) is closed.
- R (k) Push and then release the PRESS TO TEST AND RESET control lever (4)
R five times.
- R (l) Open the LH door.
- R (m) On the underside of the LH door, by manually pushing on the OXY ON FLAG
R mechanism with a finger, push until the OXY ON flag (5) becomes visible
R and then release the OXY ON flag (repeat this step five times).
- R (n) If necessary, remove the unwanted lubrication agent (Material
R No. 14DDDB1) with (Material No. 08BBD1, cotton swabs, cotton buds and a
R soft bristled brush).
- R (3) Close-up
- R (a) Remove the mask from the vinyl bag.
- R (b) Do a visual inspection of the mask for serviceability.
- R (c) Make sure that the mask is clean. If it is not, clean it.
- R (d) Install the full face/quick donning oxygen mask in the stowage box (1)
R (Ref. 35-12-51, P. Block 401).
- R (e) Do an operational test of the full face/quick donning oxygen mask
R (Ref. 35-12-51, P. Block 501).
- R (f) De-energize the aircraft electrical circuits (Ref. 24-41-00,

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Lubrication of Door of the FFQMD Box
Figure 701

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R P. Block 301).

R (g)Make sure that the work area is clean and clear of tools and

R miscellaneous items of equipment.

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INDICATING - DESCRIPTION AND OPERATION

1. Description and Operation

A. Storage compartment

It is possible to check the cylinder pressure, with a flash light, through the windows provided on the storage compartment cover, by direct reading of the pressure gauge provided for that purpose upstream of the cylinder valve.

This reading is mainly intended for the maintenance personnel who must check the cylinder pressure to decide a possible replacement.

B. Control and Monitoring Panel

(1) Description

R

This panel is located on the overhead panel

(Ref. Fig. 001)

It includes :

- (a) An HP indicator remotely controlled by the transmitter incorporated in the high pressure stage of the regulator. It indicates, when the cylinder manual isolation valve is open, the pressure of the cylinder and the high pressure stage of the regulator.

It is graduated in psi and divided into two colored ranges :

Red range : 0 - 5.86 bars (0 - 85 psig)

Green range : 5.86 - 140 bars (85 - 2025 psig)

- (b) A LO PR SUPPLY (OFF) pushbutton switch which enables the oxygen supply valve located in the storage compartment to be opened and closed.

- (c) An LP indicator remotely controlled by the LP transmitter mounted on the oxygen supply manifold in the storage compartment, downstream of the oxygen supply valve.

It indicates the pressure in the distribution system.

It includes reading ranges which are identified clockwises by the following colors :

Red : Pressure lower than 2.62 bars (38 psig)

Amber : Pressure between 2.62 - 4.83 bars (38 - 70 psig)

Green : Pressure between 4.83 - 6.48 bars (70 - 94 psig)

Amber : Pressure between 6.48 - 6.97 bars (94 - 101 psig)

Red : Pressure higher than 6.97 bars (101 psig)

Control characteristics

- A/C network de-energized
 - . pushbutton switch OFF legend off
- A/C network energized
 - . pushbutton switch OFF legend off : oxygen supply valve opens

2. Indicator Reading Analysis

- A. Reading the HP indicator has a meaning only if the cylinder manual isolation valve has been previously opened.

Pointer in green range :

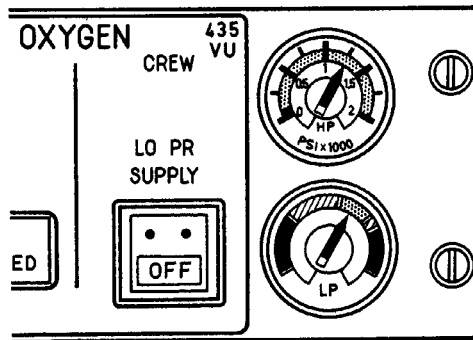
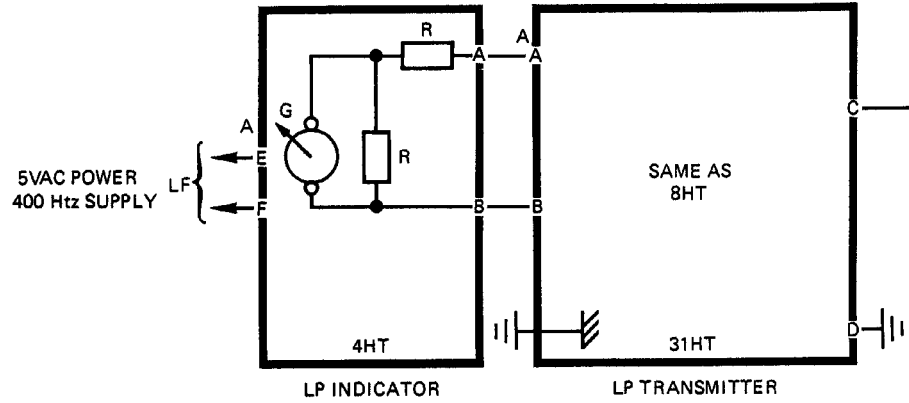
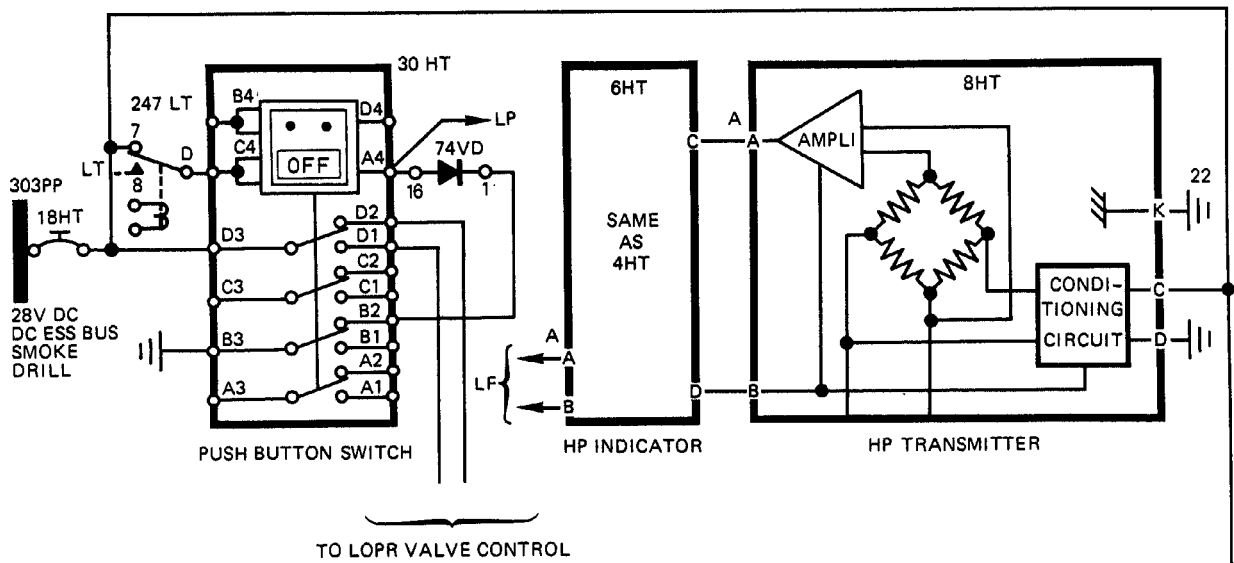
Expresses the available oxygen quantity in psig for a temperature of the storage compartment of 21 °C

EFFECTIVITY: ALL

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INDICATORS - INPUT SIGNALS

HP : 0 TO 5.4 V
LP : 0 TO 6.4 V

LP and HP Indication Systems
Figure 001

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Pointer in red range :

Expresses one of the following configurations :

- cylinder isolation valve closed
 - or -
- high pressure measurement channel failure
 - or -
- No oxygen in cylinder :
 - . either further to oxygen consumption during the previous flight without action of the maintenance personnel after flight
 - . or further to a leakage in the generation system upstream of the supply valve if the valve is closed or in the distribution system downstream of the valve if this valve is open

B. Reading the LP indicator has a meaning only if the oxygen supply valve is open.

Pointer in green range

Expresses a normal regulation condition

Pointer in amber range

Expresses an accidental regulation condition corresponding to :

- without flow pointer in pressure increase or pressure drop direction ;
a misadjustment of the regulation level of the regulator
Mask performance affected without catastrophic effects,
- with flow pointer in pressure drop direction ;
particular inhalation conditions such as inhalation with strong pure oxygen ventilation, simultaneously by several crew members.

Pointer in red range

Expresses an accidental condition corresponding to a system fault :

- pointer in pressure drop direction :
 - . If the HP indicator shows no pressure drop, there is a fault in the regulation system.
Mask performance may become catastrophic for the user.
 - . if the HP indicator shows a pressure drop, there is a leakage in the generation or distribution system
- pointer in pressure increase direction :
 - . if the HP indicator shows no pressure drop, there is a misadjustment of the regulation level of the regulator, without effects for the user, the mask performance of which increases.
 - . if the HP indicator shows a pressure drop down to 0, the overpressure safety system of the regulator low pressure stage has tripped.

EFFECTIVITY: ALL

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AIRCRAFT MAINTENANCE MANUAL

INDICATING - INSPECTION/CHECK

1. Reason for the Job

A. Oxygen Indicating System Check

2. Equipment and Materials

ITEM	DESIGNATION
A.	Access Platform 2 m (6 ft. 7 in.)
Referenced Procedure - 24-41-00, P. Block 301	AC External Power Control

3. Procedure

A. Job Set-Up

- (1) Position access platform.
- (2) Open access 121BL.
- (3) Connect electrical ground power unit and energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
- (4) Make certain that the following circuit breaker is closed :

PANEL	SERVICE	IDENT.	LOCATION
22VU	CREW OXYGEN	18HT	208/B28

B. Inspection/Check

- (1) In oxygen storage compartment, note oxygen cylinder pressure.
- (2) On panel 435VU
 - on HP indicator, make certain that pressure corresponds to cylinder gage reading ± 100 psi.
- (3) On panel 435VU
 - press LP PR SUPPLY pushbutton switch (ON position)
 - LP gage pointer must remain in green band
- (4) On panel 435VU
 - press to release LO PR SUPPLY pushbutton switch (OFF position)
 - bleed LP system
 - LP gage pointer must return to zero.

C. Service Panel

Not applicable

D. Close-Up

- (1) De-energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
- (2) Close access door 121BL.
- (3) Remove access platform.

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AIRCRAFT MAINTENANCE MANUAL

OXYGEN HIGH PRESSURE INDICATOR - REMOVAL/INSTALLATION

1. Equipment and Materials

ITEM	DESIGNATION
A.	Circuit Breaker Safety Clips
Referenced Procedure	
- 24-41-00, P. Block 301	AC External Power Control

2. Procedure

A. Job Set-Up

- (1) Open, safety and tag the following circuit breaker :

PANEL	SERVICE	IDENT.	LOCATION
22VU	OXYGEN/CREW	18HT	208/B28

- (2) On panel 414VU

- place PED & OVHD PANEL rheostat in OFF position.

- (3) Loosen the fasteners on panel 435VU and remove it from overhead panel.

B. Removal

- (1) On back of HP indicator, disconnect electrical connector.

- (2) On face of panel 435VU, loosen oval head screw tightening HP indicator clamp.

NOTE : Do not loosen the countersunk head screw securing clamp.

- (3) Remove indicator from its housing.

C. Preparation of Replacement Component

- (1) Make certain that replacement pressure indicator is not dented or scratched.

- (2) Make certain that electrical connector is in correct condition.

D. Installation

- (1) Insert HP indicator in housing, and tighten clamp by means of oval head screw.

- (2) Connect electrical connector.

E. Close-Up

- (1) Position panel 435VU and tighten fasteners.

- (2) Close circuit breaker 18HT.

- (3) Energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
Make certain that electronics racks ventilation is correct.

F. Test

- (1) In avionics compartment, note oxygen cylinder pressure.

- (2) On HP indicator, make certain that pressure corresponds to cylinder pressure gage reading ± 100 psi.

- (3) On panel 414VU

EFFECTIVITY: ALL

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AIRCRAFT MAINTENANCE MANUAL

- turn PED & OVHD PANEL rheostat to max. BRT position.
- (4) De-energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).

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AIRCRAFT MAINTENANCE MANUAL

OXYGEN LOW PRESSURE INDICATOR - REMOVAL/INSTALLATION

1. Equipment and Materials

ITEM	DESIGNATION
A.	Circuit Breaker Safety Clips
Referenced Procedure	
- 24-41-00, P. Block 301	AC External Power Control

2. Procedure

A. Job Set-Up

- (1) Open safety and tag the following circuit breaker:

PANEL	SERVICE	IDENT.	LOCATION
22VU	OXYGEN/CREW	18HT	208/B28

- (2) On panel 414VU

- place PED & OVHD PANEL rheostat in OFF position.

- (3) Loosen the dzus fasteners securing panel 435VU and remove it from overhead panel.

B. Removal

- (1) Disconnect electrical connector from back of LP indicator.

- (2) On face of panel 435VU, loosen oval head screw on clamp.

NOTE : Do not loosen countersunk head screw securing clamp.

- (3) Remove LP indicator from housing.

C. Preparation of Replacement Component

- (1) Make certain that replacement indicator is not dented or scratched.

- (2) Make certain that electrical connector is in correct condition.

D. Installation

- (1) Install indicator, and tighten oval head screw on clamp.

- (2) Connect electrical connector.

E. Close-Up

- (1) Install panel 435VU by means of dzus fasteners.

- (2) Close circuit breaker 18HT.

- (3) Energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
Make certain that electronics racks ventilation is correct.

F. Tests

- (1) On panel 435VU, select OFF legend off on LO PR SUPPLY pushbutton switch.

- (2) Indicator pointer must remain in green band.

- (3) On panel 414VU

- turn PED & OVHD PANEL rheostat to max. BRT position.

- (4) De-energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).

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AIRCRAFT MAINTENANCE MANUAL

PASSENGER - DESCRIPTION AND OPERATION

1. General

Passenger and cabin attendant's emergency oxygen is supplied by oxygen containers fitted above the passenger seats, in the lavatory ceiling and in the galley areas.

2. Description

A. The system is activated in two ways:

- by the altitude pressure switch, closing automatically at a cabin pressure corresponding to 14000 +0 -500 ft. (4260 +0 -150 m).
- by pressing the **MAN OVRD** switch in the flight compartment.

B. When the system is activated:

- the doors of the oxygen containers open. The masks drop down within reach of each seat occupant.
- pulling the mask towards the face activates the oxygen generator and oxygen is supplied to the user.
- an indicator light **SYS ACTUATED** comes on.
- an emergency announcement is broadcast over the passenger address system.

C. After activation:

- Time-delay relays energize 30 sec. after the altitude switch closes to de-activate the electrical supply.

****0N A/C 226-226, 229-249,**

(Ref. Fig. 001)

R **0N A/C 401-401, 404-500,

(Ref. Fig. 002)

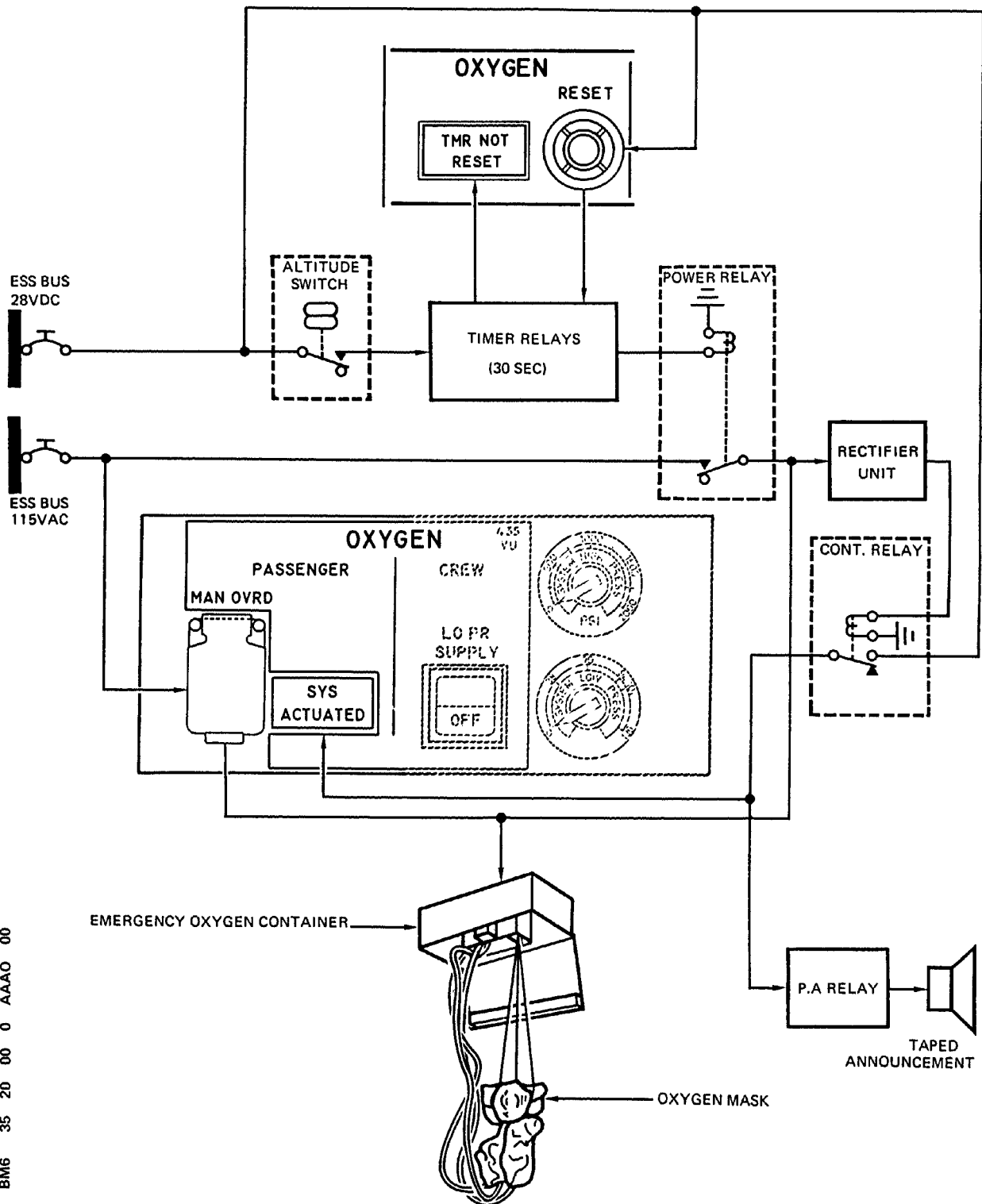
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Passenger Oxygen System
Figure 001

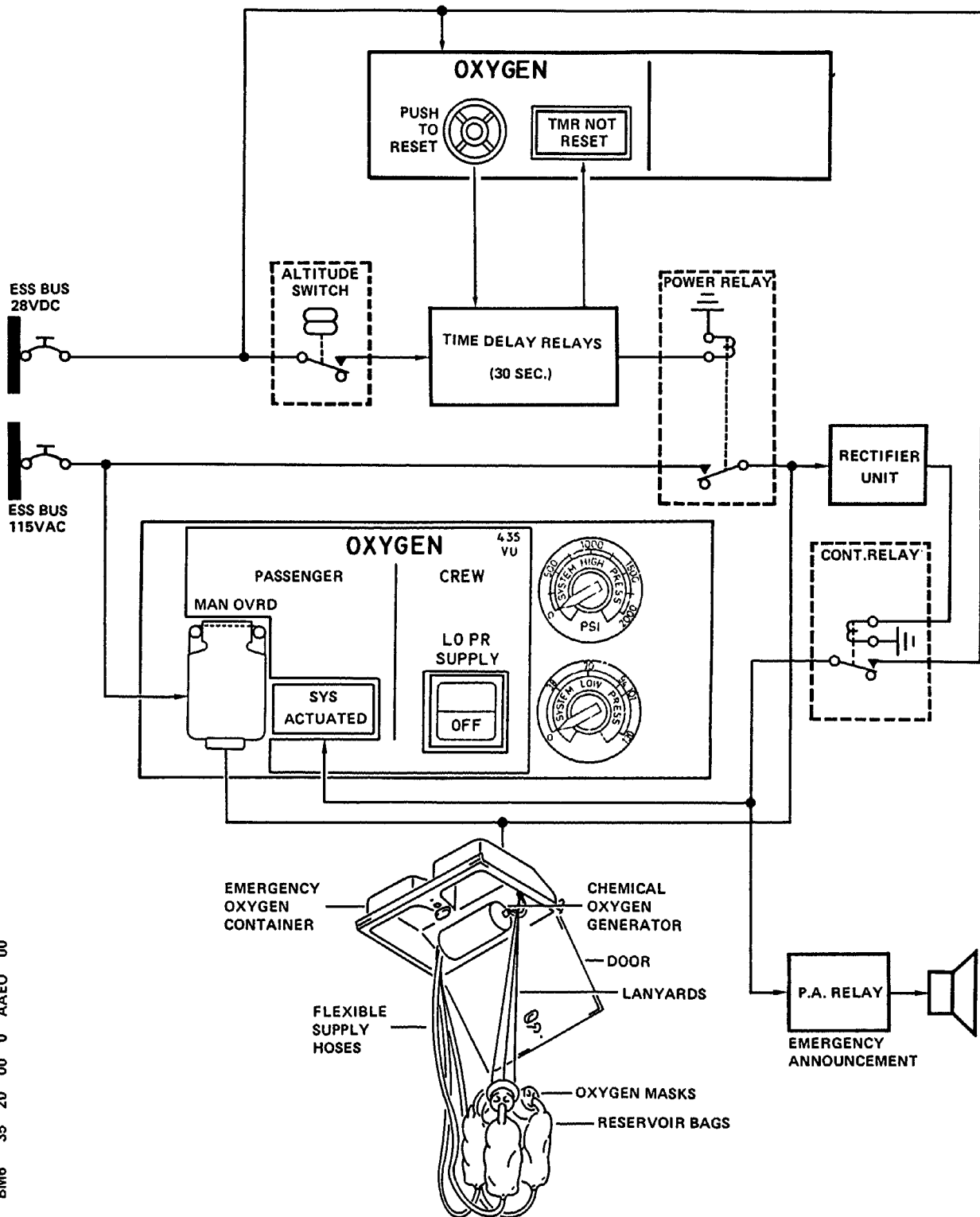
R EFFECTIVITY: 226-226, 229-249,

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Passenger Oxygen System
Figure 002

R EFFECTIVITY: 401-401, 404-500,

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AIRCRAFT MAINTENANCE MANUAL

PASSENGER OXYGEN SYSTEM - DESCRIPTION AND OPERATION

1. General

The passenger oxygen system supplies emergency oxygen to the passenger and cabin attendants when there is a failure of cabin pressurization. A chemical generator is used to give an oxygen supply for at least 13 minutes. The chemical generation of oxygen is started mechanically when the oxygen mask is used.

2. Component Location

(Ref. Fig. 001)

****ON A/C 226-226, 229-249,**

(Ref. Fig. 002)

****ON A/C 401-401,**

Post COCAUA-DA25-072 For A/C 401-401,

(Ref. Fig. 003)

****ON A/C 404-500,**

Post COCAUA-DA25-072 For A/C 404-500,

(Ref. Fig. 004)

****ON A/C ALL**

FIN	FUNCTIONAL DESIGNATION	PANEL	ZONE	ACCESS DOOR	ATA REF.
8WR	TIME DELAY RELAY	282VU	122		
9WR	TIME DELAY RELAY	282VU	122		
10WR	POWER RELAY	282VU	122		
12WR	INDICATOR LIGHT TMR NOT RESET	472VU			
11WR	RELAY	282VU	122		
13WR	INDICATOR LIGHT SYS ACTUATED	435VU			
14WR	PUSHBUTTON SWITCH MAN OVRD	435VU			
15WR	PUSHBUTTON SWITCH RESET	472VU			
16WR	ALTITUDE SWITCH		211		35-21-41
19WR	PASS INFO RELAY	282VU			
23WR	RECTIFIER AND COIL ASSEMBLY	282VU			
	EMERGENCY OXYGEN CONTAINER		200		35-21-11
	(REF. CORRESPONDING FIGURE)				

EFFECTIVITY: ALL

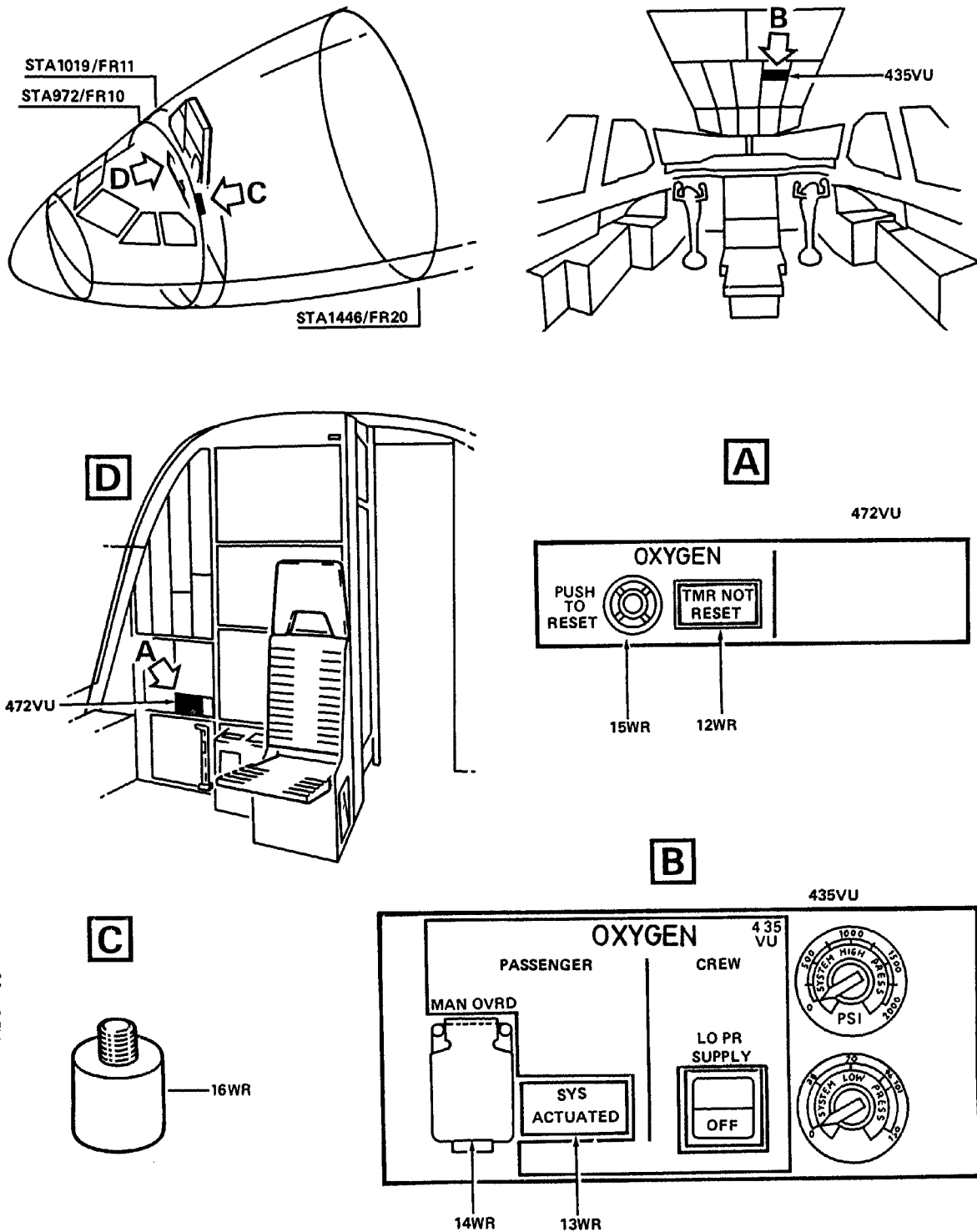
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Component Location Cockpit
Figure 001

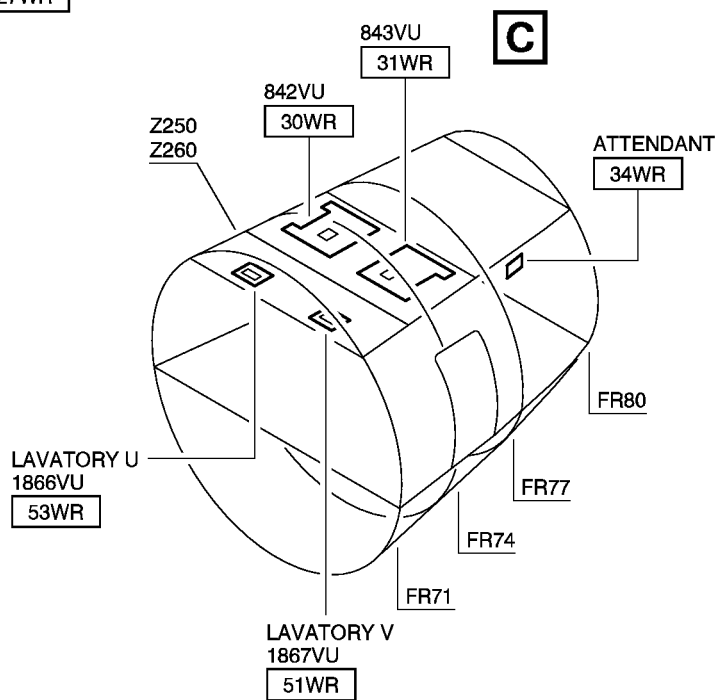
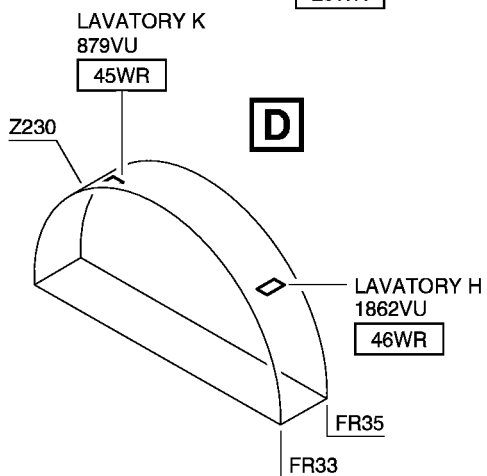
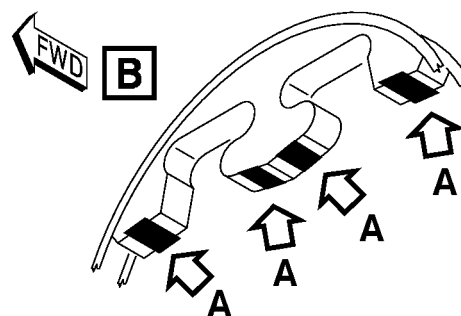
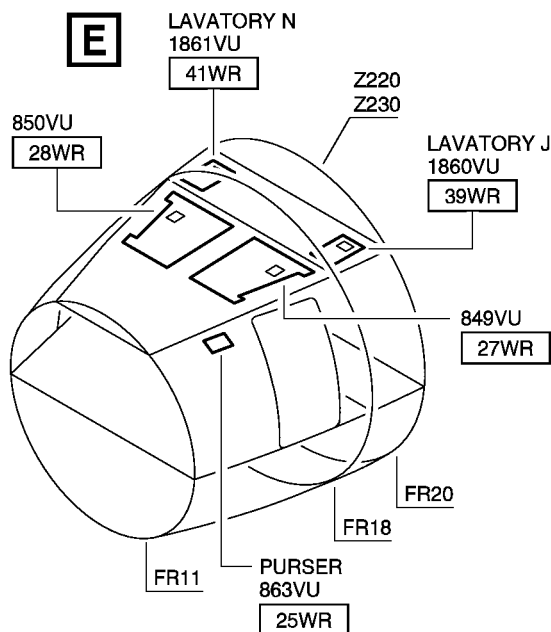
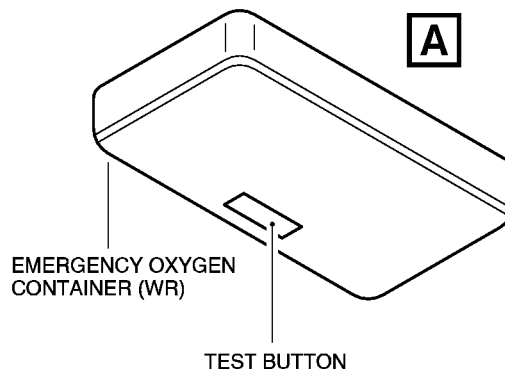
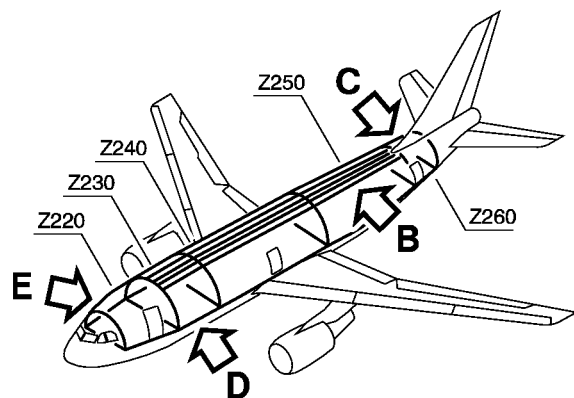
EFFECTIVITY: ALL

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Component Location Pax Compt
Figure 002

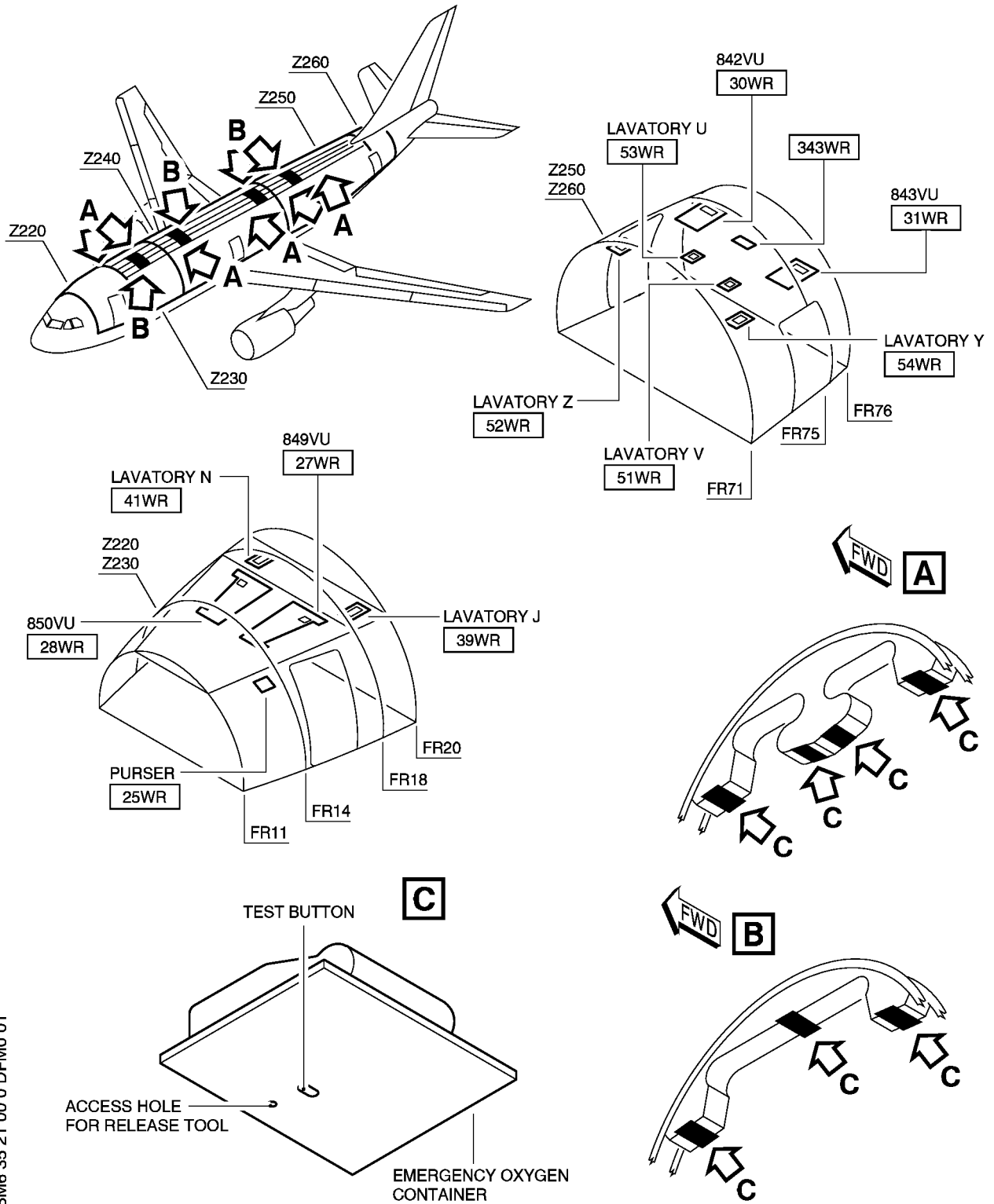
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Component Location Pax Compt
Figure 003

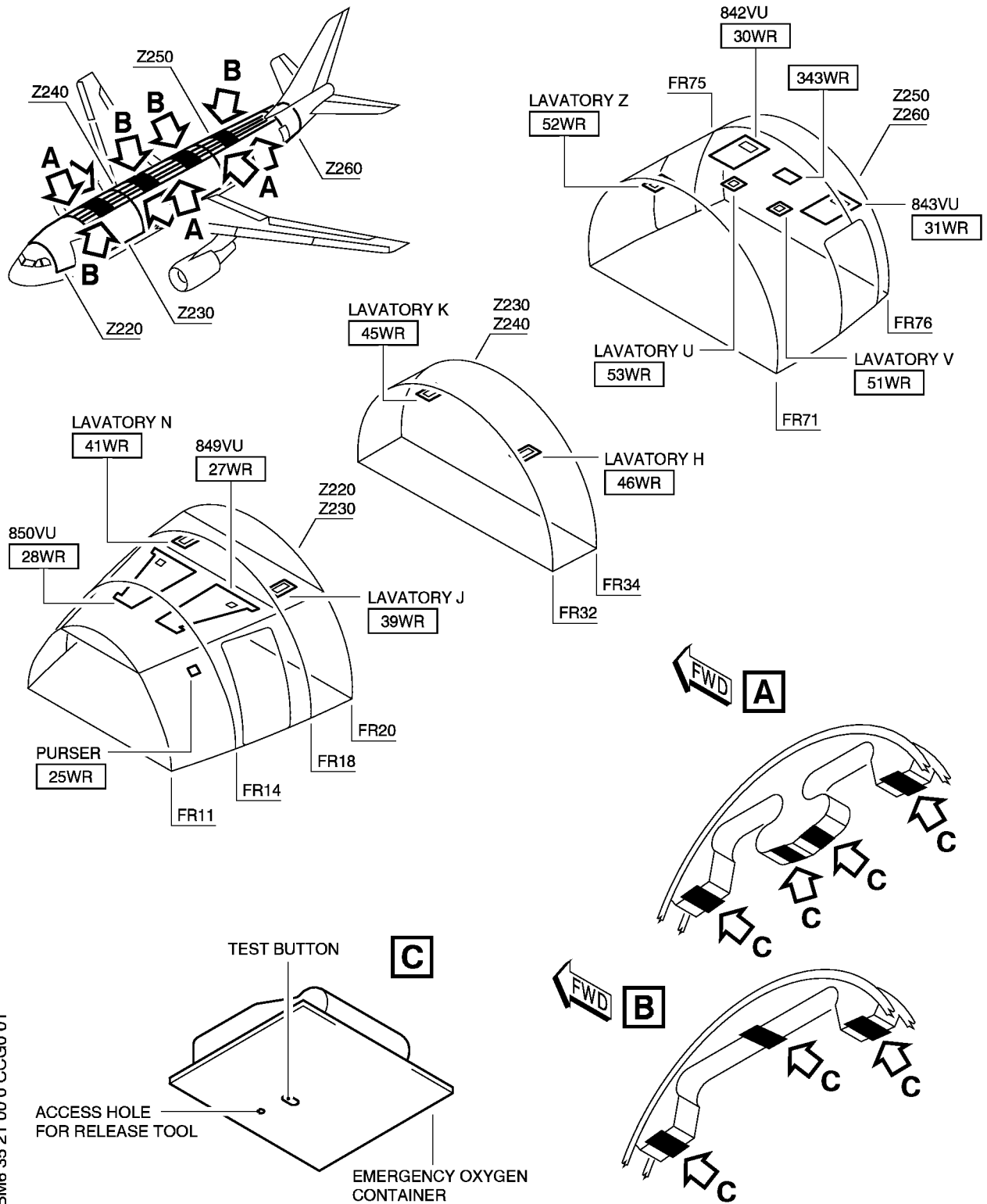
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Component Location Pax Compt
Figure 004

R EFFECTIVITY: 404-500,

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**0N A/C 226-226, 229-249,

3. System Description (Ref. Fig. 005)

R **0N A/C 401-401, 404-500,

3. System Description (Ref. Fig. 006)

**0N A/C ALL

The system consists of emergency oxygen containers and associated electrical controls.

A. Emergency Oxygen Containers

(1) Chemical Oxygen Generator

- (a) The chemical generator is a sodium-chlorate core installed in a stainless-steel housing. A thermal insulating material is used between the core and the housing.
- (b) The chemical generator actuator is a spring-loaded striker and a percussion cap installed at one end of the housing. A release pin holds the striker away from the cap. A lanyard connects the release pin to the oxygen mask.
- (c) A filter assembly is installed in the outlet end of the housing to prevent contamination of the oxygen supply.
- (d) A flexible hose connects the oxygen mask to the outlet manifold and the oxygen mask gets its oxygen supply from the outlet. The outlet is installed on the housing.
- (e) A relief valve is installed at the outlet end of the housing. This will prevent a high-pressure build-up if a failure of the outlet valve occurs.
- (f) A temperature sensitive indicator tape is installed on the housing. The process of generating oxygen creates a fairly high temperature, this causes the indicator tape to change color from yellow to black. A black indicator tape signals that this chemical oxygen generator has been used.

(2) Continuous-flow oxygen mask.

- (a) The oxygen mask is a face cone with a reservoir bag attached. The inhale, exhale and diluter valves are installed in the face cone.
- (b) A flow indicator is installed in the flexible hose connected to the oxygen mask. The flow indicator will show a green stripe when there is an oxygen flow.

(3) Door and Latch assembly.

- (a) The electrical latch assembly holds the door of the emergency oxygen container closed. Spring pressure will open the door when the electrical latch assembly is electrically released.
- (b) A test button is installed in the emergency oxygen container to permit the inspection and testing of the emergency oxygen container. The test button is turned through 90° to permit the door to open a

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few degrees and will prevent the masks from falling out.
(c) The door can be opened manually with a release tool, via an access hole, to release the electrical latch assembly.

B. Altitude Switch

The altitude switch (16WR) closes when the cabin pressure drops to a pressure equivalent of 4260 +0/-150 m (14000 +0/-500 ft.). This operates the emergency oxygen supply system.

C. Power Relay

The power relay (10WR) is installed in the avionics compartment. It controls the 115 V AC supply to the electrical door-latch assemblies.

D. Time Delay Relays

The 30 s time delay relays (8WR and 9WR) are the slow-to-make type. They will switch off the 28 V DC supply to the oxygen power relay (10WR). The contacts are connected in series to prevent damage to the solenoids if one relay has a failure.

E. Pass Info Relay

When energized, the pass info relay (19WR) switches on an emergency announcement in the passenger address system and provides a hold-in circuit for SYS ACTUATED indicator light (13WR).

F. RESET Pushbutton Switch

The reset pushbutton switch (15WR) is used to reset the control circuit after operation.

G. Indicator Lights

- (1) SYS ACTUATED indicator light (13WR) comes on when the system is actuated.
- (2) TMR NOT RESET indicator light (12WR) comes on when the contacts of the time delay relays (8WR and 9WR) are close and indicates that the system requires resetting.

H. MAN OVRD pushbutton switch

The MAN OVRD pushbutton switch (14WR) serves as a backup or override for the altitude switching circuit. A safety guard is fitted over the switch.

****ON A/C 226-226, 229-249,**

4. Operation (Ref. Fig. 007)

R **ON A/C 401-401, 404-500,

4. Operation (Ref. Fig. 008)

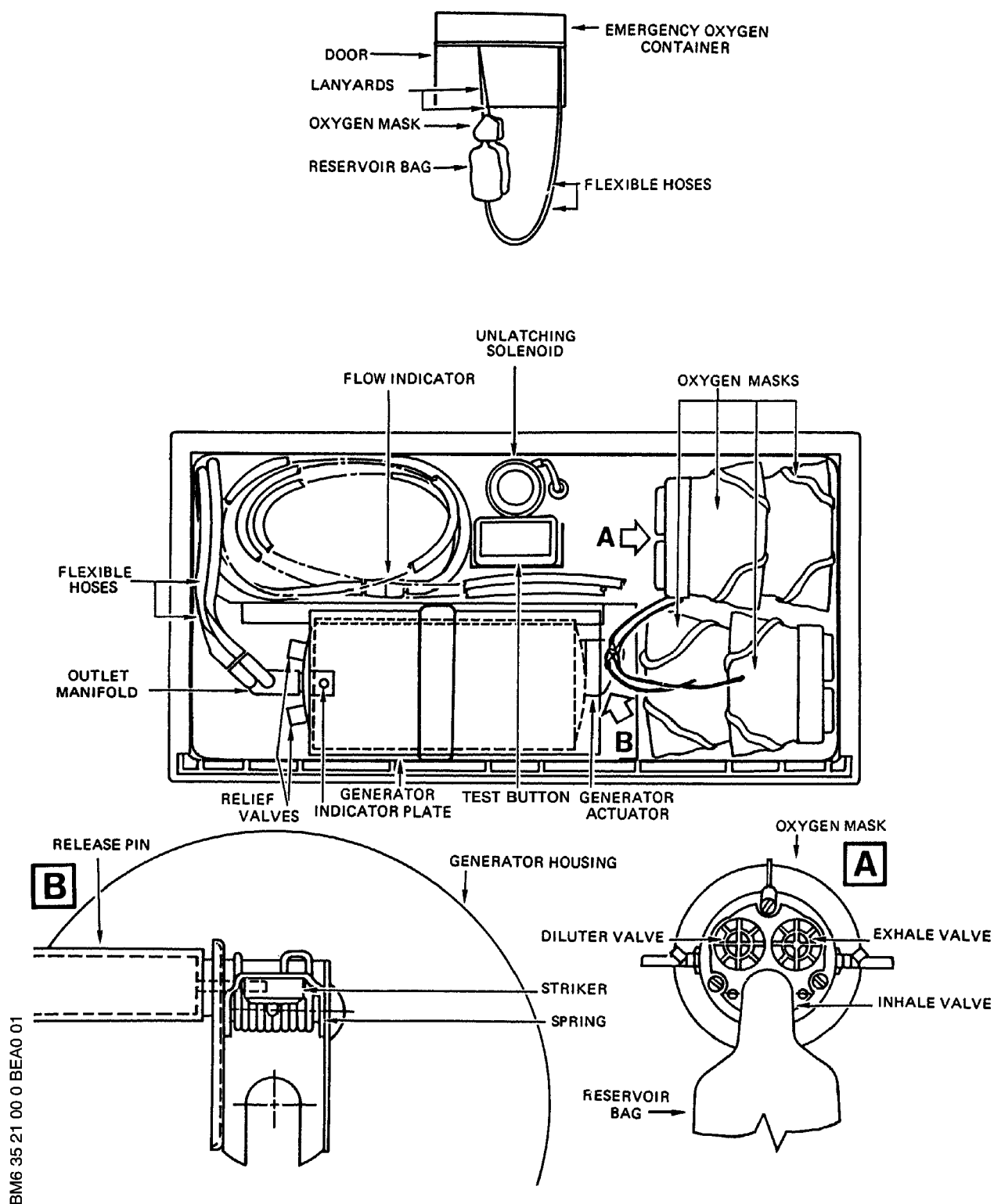
****ON A/C ALL**

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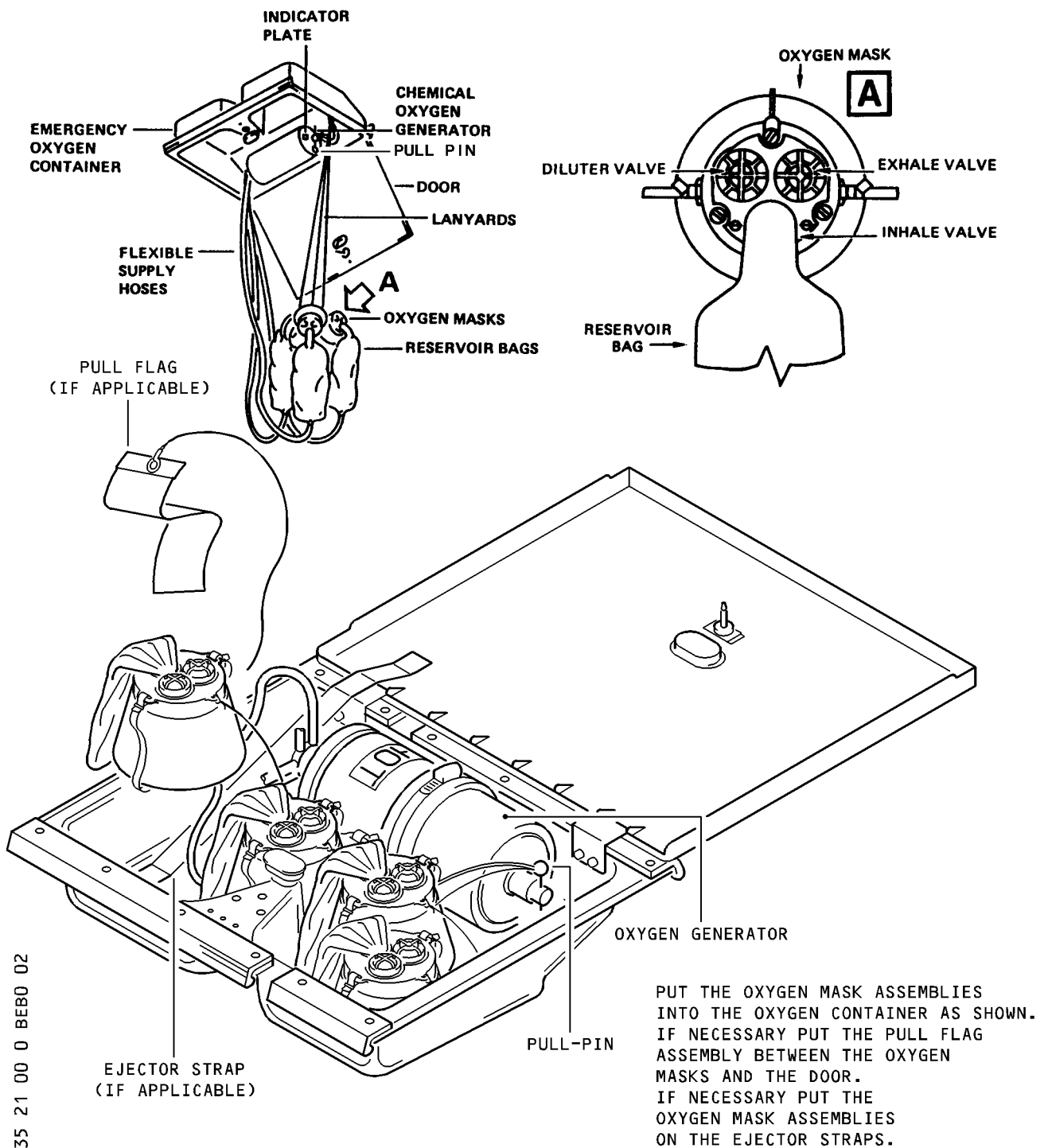
Oxygen Container
Figure 005

R EFFECTIVITY: 226-226, 229-249,

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BM6 35 21 00 0 BEB0 02

NOTE: 4 MASK CONTAINER SHOWN
PACKING PROCEDURE IS APPLICABLE TO 2,3 AND 4 MASK CONTAINERS

Oxygen Container
Figure 006

R EFFECTIVITY: 401-401, 404-500,

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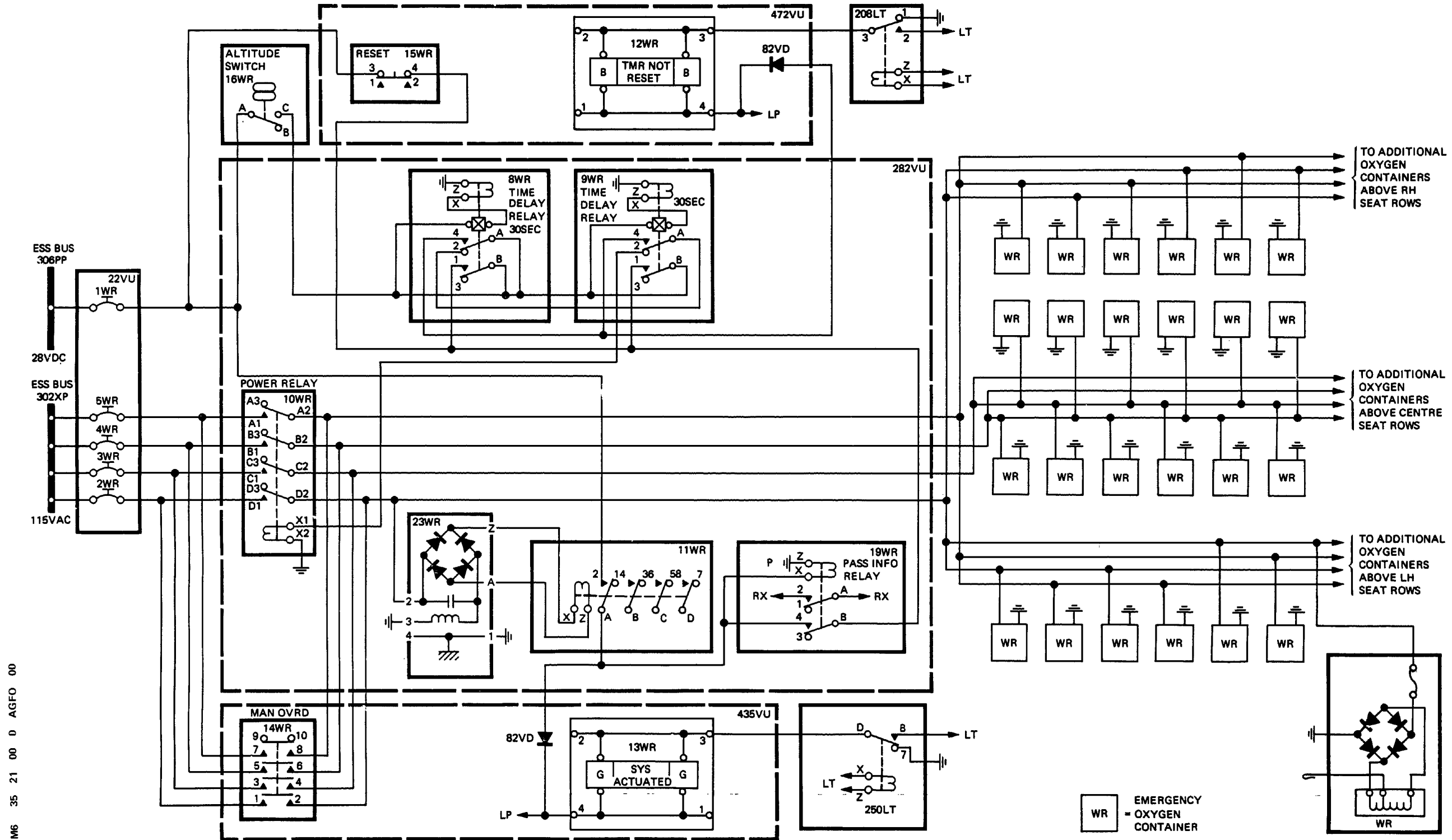
- A. If the cabin pressure drops to a pressure corresponding to 14000 ft. ± 500 ft. (4260 ± 150 m), the altitude switch (16WR) closes, and feeds 28 V DC from busbar 306PP, via circuit breaker (1WR), to energize the power relay (10WR). 115 V AC from busbar 302XP supplied to the release solenoids of the emergency oxygen containers via circuit breakers (2WR thru 5WR) and the power relay contacts.
Relay 11WR is energized via rectifier and coil assembly (23WR).
- (1) The oxygen container doors open.
 - (2) The oxygen masks fall out and hang by the lanyards within reach of the user passengers and cabin attendants.
 - (3) When a mask is pulled towards the face of the user, the release pin is withdrawn from its housing by the lanyard attached to the mask. This releases the striker which ignites the percussion cap to start a chemical reaction in the generator core. Oxygen is produced and is delivered through the flexible hose to the mask.
 - (a) The flow indicator shows a green stripe.
 - (4) The SYS ACTUATED indicator light (13WR) comes on.
 - (5) The pass info relay (19WR) operates and provides:
 - a hold-in circuit for SYS ACTUATED indicator light (13WR).
 - a circuit for emergency announcement transmission over the passenger address system.
 - (6) The time delay relays (8WR and 9WR) operate 30 seconds after the closing of the pressure switch (16WR) to de-energize the power relay (10WR).
 - (a) The TMR NOT RESET indicator light (12WR) comes on.
 - (7) When the RESET pushbutton switch (15WR) is pressed, the SYS ACTUATED and TMR NOT RESET indicator light (13WR and 12WR) goes off and the emergency announcement stops after an internally preselected time.
- B. The system can be manually operated and the oxygen masks released by pressing the MAN OVRD switch (14WR).

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Electrical Schematic
Figure 007

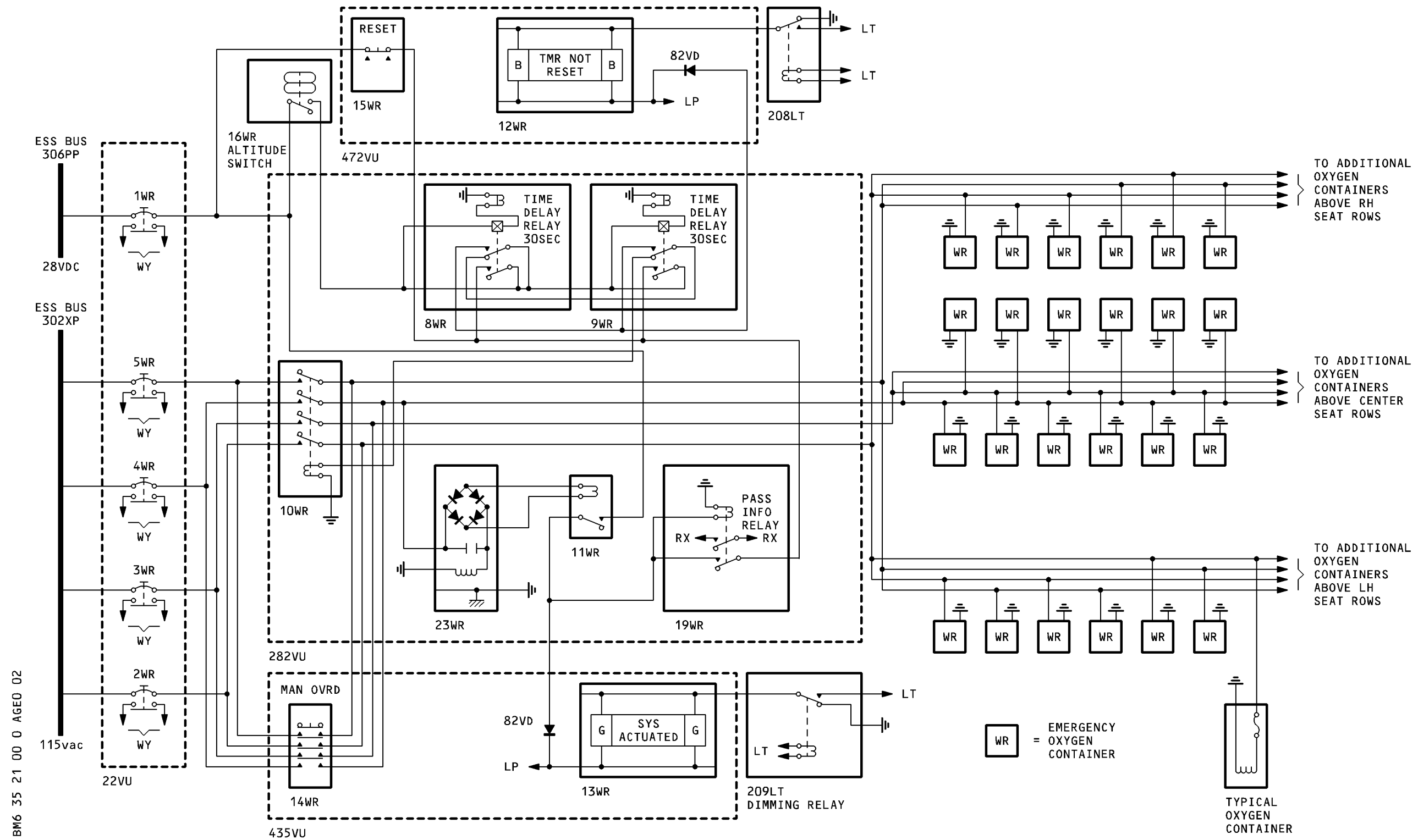
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Electrical Schematic
Figure 008

R EFFECTIVITY: 401-401, 404-500,

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AIRCRAFT MAINTENANCE MANUAL

PASSENGER OXYGEN SYSTEM - SERVICING

WARNING : THE USE OF OIL AND OTHER PETROLEUM BASE LUBRICANTS WHEN IN CONTACT WITH OXYGEN EQUIPMENT WILL CREATE A DANGEROUS FIRE HAZARD.
SOLVENTS/CLEANING AGENTS ARE POISONOUS AND FLAMMABLE.

WARNING : USE SOLVENTS/CLEANING AGENTS ONLY IN AN AREA WITH A GOOD SUPPLY OF AIR.

OBEY THE MANUFACTURER'S INSTRUCTIONS.

PUT ON PROTECTIVE CLOTHING.

DO NOT DRINK SOLVENTS/CLEANING AGENTS.

DO NOT SMOKE.

DO NOT BREATHE THE GAS.

WARNING : MAKE SURE THAT YOU OBEY THE MANUFACTURER'S INSTRUCTIONS AND NATIONAL HAZARDOUS MATERIAL REGULATIONS WHEN YOU MOVE OR KEEP THIS EQUIPMENT IN STORAGE:

- CHEMICAL OXYGEN GENERATORS

- PROTECTIVE BREATHING EQUIPMENT

- FIXED AND PORTABLE OXYGEN CYLINDERS.

SPECIAL PRECAUTIONS ARE NECESSARY FOR THIS EQUIPMENT.

CAUTION : DO NOT PULL ON LANYARDS AS THE REMOVAL OF THE PULL PIN FROM UNUSED GENERATORS WILL START OXYGEN FLOW WHICH CANNOT BE STOPPED.

CAUTION : DO NOT LET THE CLEANING FLUIDS TOUCH THE RESERVOIR BAGS OR THE MASK VALVES.

1. Reasons for the Job

A. Cleaning and disinfecting of oxygen masks

B. Cleaning of door latch assembly

C. Packing and restowing of oxygen masks

2. Equipment and Materials

ITEM	DESIGNATION

A.	Circuit Breaker Safety Clips and Tags
R B.	Warning Notice
C.	Cotton Swab
D.	Sponge or Lint-Free Cloth
E. 995000	Tool - Manual Release
F. Material No. 08BBG1	Cleaners (Ref. 20-31-00)
G. Material No. 11-007	Cleaning Agents (Ref. 20-31-00)
H. Material No. 14-002	Disinfectants (Ref. 20-31-00)
Referenced Procedures	
- 35-21-00, P. Block 501	Passenger Oxygen System
- 35-21-11, P. Block 401	Emergency Oxygen Container
- 35-21-13, P. Block 401	Emergency Oxygen Generator

3. Procedure

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A. Job Set-up

- R (1) Put a warning notice in the flight compartment prohibiting operation of pushbutton MASK MAN OVR 14WR and pushbutton PUSH TO RESET 15WR.
- R (2) Open, safety and tag the following circuit breakers:

PANEL	SERVICE	IDENT.	LOCATION
22VU	PASSENGER OXYGEN/CTL & WARN	1WR	H24
22VU	PASSENGER OXYGEN/ACTUATION	2WR	H25
22VU	PASSENGER OXYGEN/ACTUATION	3WR	H26
22VU	PASSENGER OXYGEN/ACTUATION	4WR	H27
22VU	PASSENGER OXYGEN/ACTUATION	5WR	H28

- R (3) Open emergency oxygen container door using manual release tool P/N 995000.

CAUTION : DO NOT PULL LANYARDS.

NOTE : Leave masks hanging, do not disconnect lanyards when cleaning.
Do not disconnect supply line from Manifold.

B. Clean oxygen masks

CAUTION : DO NOT LET THE CLEANING FLUIDS TOUCH THE RESERVOIR BAGS OR THE MASK VALVES.

- (1) Clean mask face cone and face seal with cleaning agent (Material No. 11-007) using sponge or lint-free cloth.
- (2) Wipe face cone and face seal with lint-free cloth.
- (3) Allow parts to dry at room temperature.

C. Disinfect masks

- (1) Spray internal surface of face cone and face seal with disinfectants (Material No. 14-002).

D. Clean door latch assembly

WARNING : USE SOLVENTS/CLEANING AGENTS ONLY IN AN AREA WITH A GOOD SUPPLY OF AIR. OBEY THE MANUFACTURER'S INSTRUCTIONS. PUT ON PROTECTIVE CLOTHING. DO NOT DRINK SOLVENTS/CLEANING AGENTS. DO NOT SMOKE. DO NOT BREATHE THE GAS. SOLVENTS/CLEANING AGENTS ARE POISONOUS AND FLAMMABLE.

- (1) Clean all parts of the electrical latch and latch receptacle with solvent (Material No. 08BBG1) and lint-free cloth or cotton swab.
- (2) Dry cleaned areas with dry, clean, compressed air.

NOTE : Make certain that door latching mechanism is clean and free of dust, nicotine and tar.

****ON A/C 226-226, 229-249,**

E. Pack and restow oxygen masks (Ref. Fig. 301)

WARNING : MAKE SURE THAT THE OXYGEN MASKS ARE PACKED CORRECTLY. IF NOT, IT IS POSSIBLE THAT THEY WILL NOT FALL OUT CORRECTLY IN AN EMERGENCY.

EFFECTIVITY: ALL

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(1) Connect supply tubes (8) to manifold (9).

(2) Connect lanyards (7) to clip junctions.

NOTE : Visually inspect oxygen generator and pull-pin for correct position.

Identification plate and outlet valve must be visible and facing outward. The pull-pin ring must be pointed outward.

(3) Fold edges of mask bags (1) inwards (lengthwise) to form three equal sections (STEP 1).

(4) Tuck elastic head straps (2) into mask cavities (STEP 2).

(5) Place two masks, nested together, into the oxygen container with the face cavity of each facing the generator partition wall (3) (STEP 3).

(6) Place three masks, nested together, into the oxygen container with the face cavity of each facing the container wall (6) (STEP 3).

(7) Group the tubes together to form an apparent harness effect.

CAUTION : DO NOT WEDGE THE OXYGEN MASK TUBING.

(8) Lay supply tubes along the bottom edge of the generator partition wall (4) to the test button partition assembly (5) (STEP 3).

NOTE : Masks must be held in place until door is closed and latched.

****ON A/C 401-401, 404-500,**

E. Pack and restow oxygen masks (Ref. Fig. 302)

WARNING : MAKE SURE THAT THE OXYGEN MASKS ARE PACKED CORRECTLY.

IF NOT, IT IS POSSIBLE THAT THEY WILL NOT FALL OUT CORRECTLY IN AN EMERGENCY.

(1) Pack each oxygen mask assy as shown in (Ref. Fig. 302)

NOTE : Ensure the oxygen mask tubes are not kinked.

NOTE : Visually inspect oxygen generator and pull-pin for correct position.

Identification plate and outlet valve must be visible and facing outward. The pull-pin ring must be pointed outward.

(2) Hold masks in place, close and latch door.

****ON A/C 226-226, 229-249,**

(Ref. Fig. 301)

****ON A/C ALL**

F. Test

(1) Carry out an operational test (Ref. 35-21-00, P. Block 501).

(2) Replace emergency oxygen container if door latching mechanism functions incorrectly (Ref. 35-21-11, P. Block 401).

(3) Replace oxygen generator when the indicator plate changes from yellow to black (Ref. 35-21-13, P. Block 401).

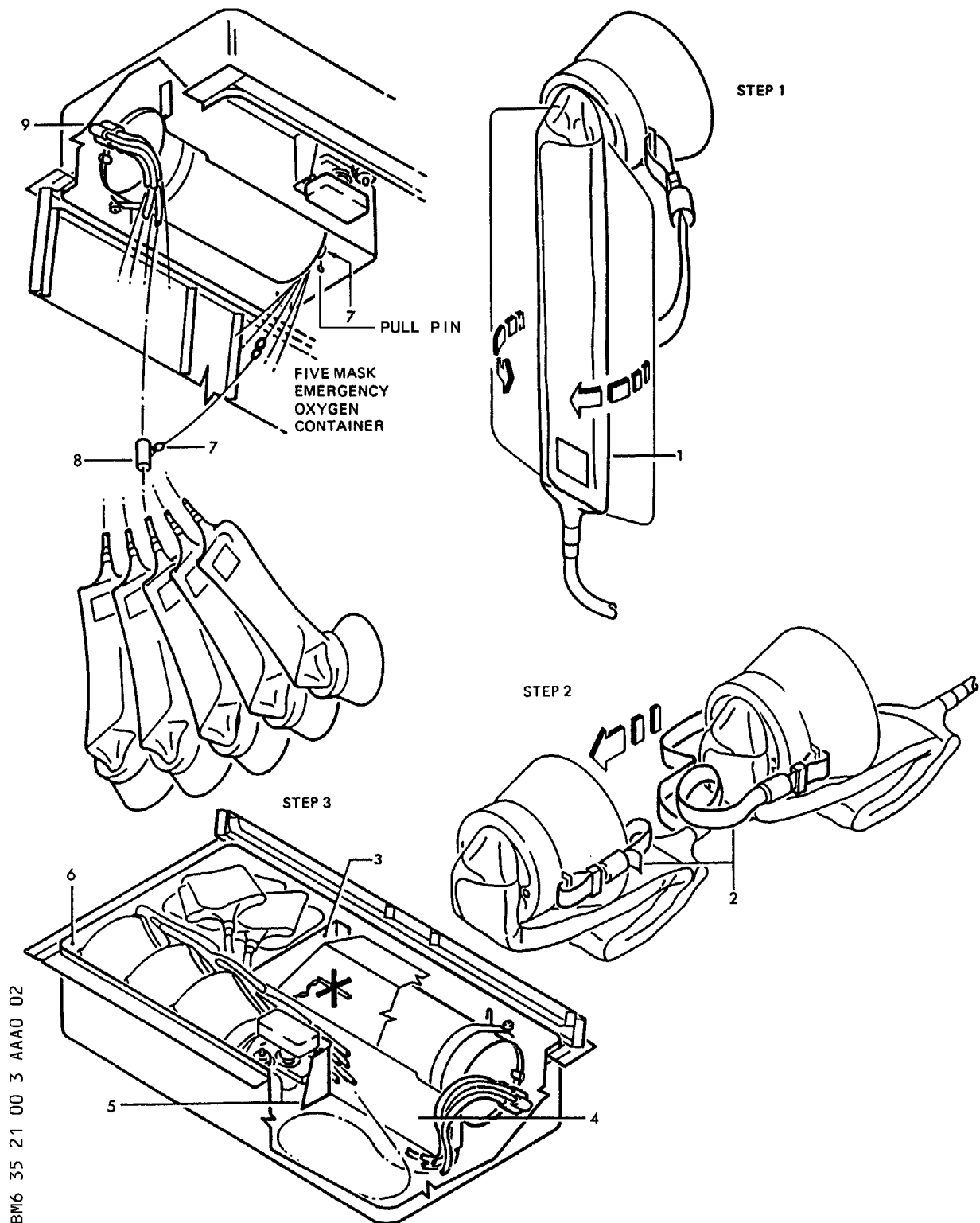
EFFECTIVITY: ALL

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BM6 35 21 00 3 AAO 02

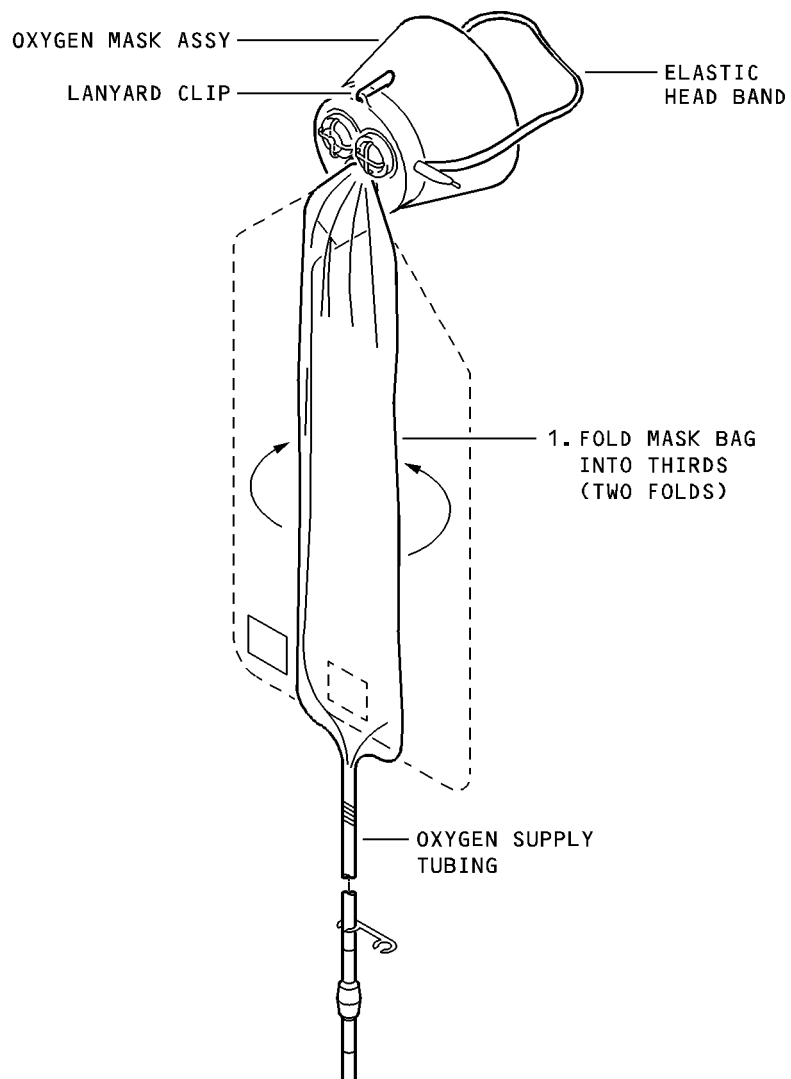
Oxygen Mask Packing
Figure 301

R EFFECTIVITY: 226-226, 229-249,

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Oxygen Mask Packing (Sheet 1/3)
Figure 302

BM6 35 21 00 3 ACMA 01

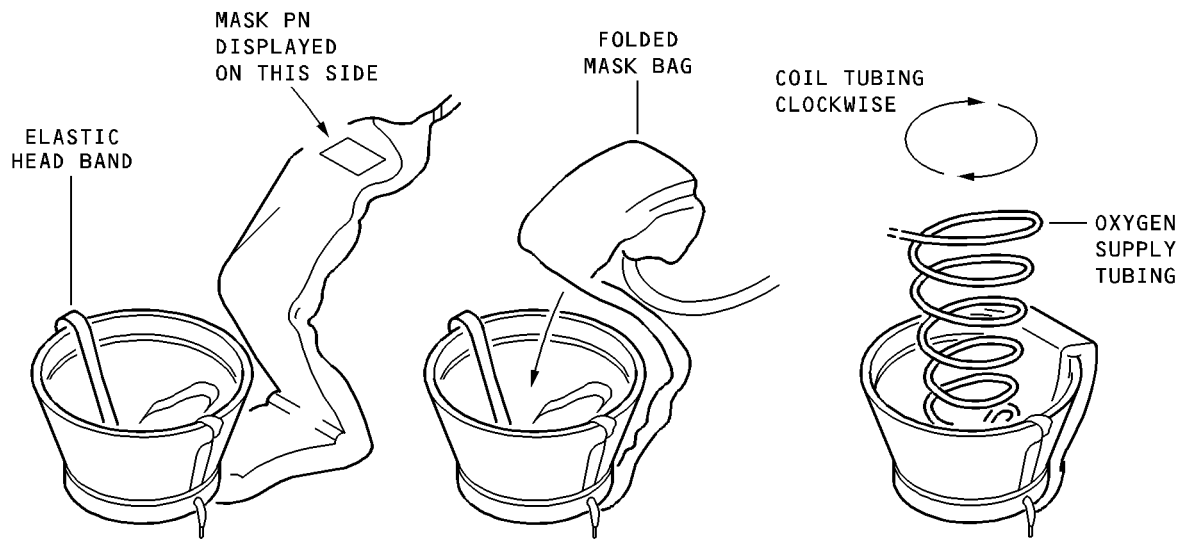
R EFFECTIVITY: 401-401, 404-500,

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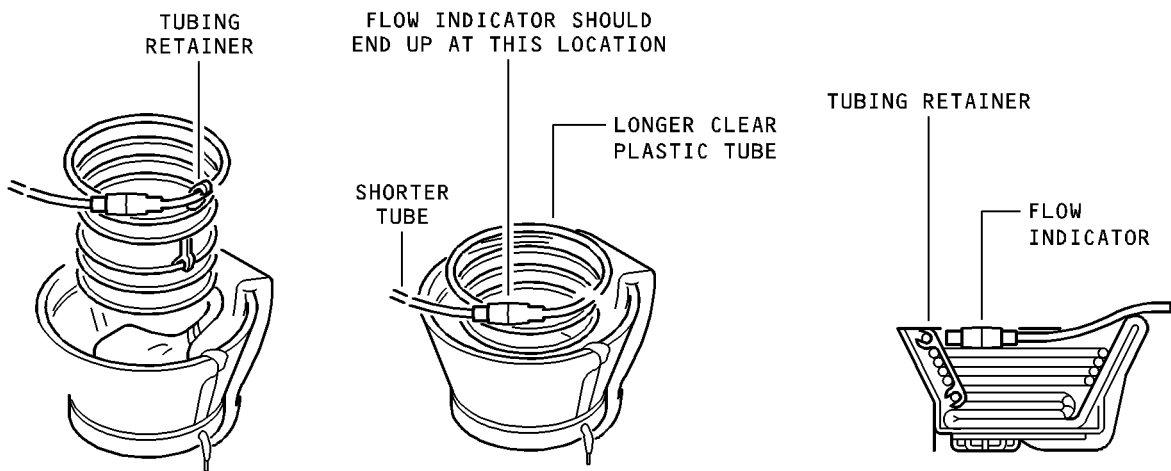
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2. PLACE ELASTIC HEAD BAND INTO MASK

3. INSERT FOLDED MASK BAG

4. COIL TUBING CLOCKWISE INTO MASK FACE CONE CAVITY



5. INSTALL TUBING RETAINER OVER MASK TUBING

6. PRESS TUBING, TUBING RETAINER, AND FLOW INDICATOR INTO CAVITY

7. CROSS SECTION SHOWING TUBING COILS BETWEEN ENDS OF TUBING RETAINER

BM6 35 21 00 3 ACMM 02

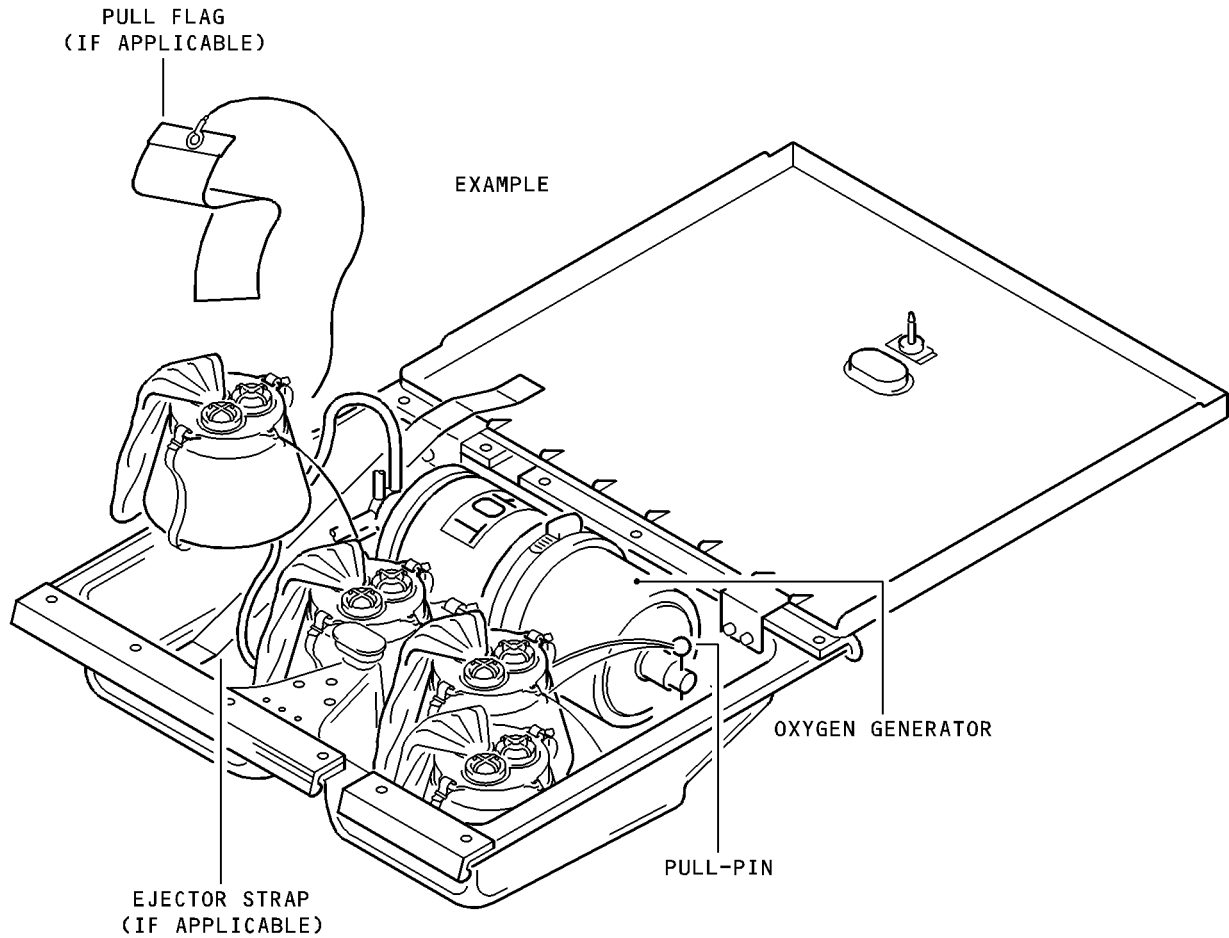
Oxygen Mask Packing (Sheet 2/3)
Figure 302

R EFFECTIVITY: 401-401, 404-500,

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8. PUT THE OXYGEN MASK ASSEMBLIES INTO THE OXYGEN CONTAINER AS SHOWN. IF NECESSARY PUT THE PULL FLAG ASSEMBLY BETWEEN THE OXYGEN MASKS AND THE DOOR. IF NECESSARY PUT THE OXYGEN MASK ASSEMBLIES ON THE EJECTOR STRAPS.

NOTE: 4 MASK CONTAINER SHOWN
PACKING PROCEDURE IS APPLICABLE TO 2,3 AND 4 MASK CONTAINERS

BM6 35 21 00 3 ACMP 00

Oxygen Mask Packing (Sheet 3/3)
Figure 302

R EFFECTIVITY: 401-401, 404-500,

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****0N A/C 226-226, 229-249,**

G. Close-up

- R (1)Remove warning notice from the flight compartment.
- R (2)Remove the safety clips and tags and close the circuit breakers.
- R (3)Make sure that working area is clean and clear of tools and miscellaneous items of equipment.

****0N A/C 401-401, 404-500,**

G. Close-up

- R (1)Remove warning notice from the flight compartment.
- R (2)Remove the safety clips and tags and close the circuit breakers.
- R (3)Make sure that working area is clean and clear of tools and miscellaneous items of equipment.

EFFECTIVITY: 226-226, 229-249, 401-401, 404-500,

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PASSENGER OXYGEN SYSTEM - ADJUSTMENT/TEST

1. Operational Test

A. Reason for the Job

- (1) Perform operational test of manual release of passenger oxygen masks ('Passenger Oxygen/Man Ovrdr' selection on the overhead panel).

****0N A/C 226-226, 229-249,**

B. Equipment and Materials

ITEM	DESIGNATION
(1) 995000	Tool - Manual Release
(2)	Electrical Ground Power Unit - 3-Phase, 115/200 V, 400 Hz

Referenced Procedure

- 24-41-00, P. Block 301

AC External Power Control

****0N A/C 401-401, 404-500,**

B. Equipment and Materials

ITEM	DESIGNATION
(1)	Electrical Ground Power Unit - 3-Phase, 115/200 V, 400 Hz

Referenced Procedure

- 24-41-00, P. Block 301

AC External Power Control

****0N A/C ALL**

C. Procedure

(1) Job Set-up

- (a) Connect electrical ground power unit and energize aircraft electrical network (Ref. 24-41-00, P. Block 301).
(b) Make certain that electronics racks ventilation is correct.
(c) On all passenger emergency oxygen containers, pull out and rotate test buttons through 90° to TEST position.

(d) Make certain that the following circuit breakers are closed:

EFFECTIVITY: ALL

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PANEL	SERVICE	IDENT.	LOCATION
22VU	PASSENGER OXYGEN CTL & WARN	1WR	H24
22VU	PASSENGER OXYGEN ACTUATION	2WR	H25
22VU	PASSENGER OXYGEN ACTUATION	3WR	H26
22VU	PASSENGER OXYGEN ACTUATION	4WR	H27
22VU	PASSENGER OXYGEN ACTUATION	5WR	H28
22VU	PASSENGER ADDRESS	5RY	B15
132VU	TAPE REPRODUCER	1RX	L77
132VU	TAPE REPRODUCER	2RX	L76

(2)Test

ACTION	RESULT
1. On panel 435VU: - lift guard and press pushbutton MAN OVRD 14WR.	On panel 435VU: - indicator light SYS ACTUATED 13WR comes on. Passenger address system: - emergency announcement commences. On all emergency oxygen containers: - all doors open to the position permitted by test buttons.
2. On panel 472VU: - press pushbutton RESET 15WR.	On panel 435VU: - indicator light SYS ACTUATED 13WR goes off.
3. At purser's station Announcement Control Unit (7RX): - press pushbutton CANCEL.	Passenger address system: - emergency announcement ceases.

****0N A/C 226-226, 229-249,**

(3)Close-up

- Close doors of all emergency oxygen containers as follows:
 - depress spring loaded latch using manual release tool PN 995000 and close doors.
 - rotate test buttons through 90° and allow test buttons to retract under spring tension to the operating position.
- De-energize aircraft electrical network and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).
- Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

****0N A/C 401-401, 404-500,**

(3)Close-Up

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- (a) Close doors of all emergency oxygen containers and rotate test buttons through 90°, allow test buttons to retract under spring tension to the operating position.
- (b) De-energize aircraft electrical network and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).
- (c) Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

****ON A/C ALL**

2. Functional Test

A. Reason for the Job

- (1) Functional test of automatic release of passenger oxygen masks.
- (2) Detailed visual inspection of masks, generators (inclusive sensitive tape) and release catches.

****ON A/C 226-226, 229-249,**

B. Equipment and Materials

ITEM	DESIGNATION
(1) 995000	Tool - Manual Release
(2) 98A35207599000	Adapter-Hose, Altitude Switch
(3)	Electrical Ground Power Unit - 3-Phase, 115/200 V, 400 Hz
(4)	Vacuum Source and Altitude Indicator

****ON A/C 401-401, 404-500,**

B. Equipment and Materials

ITEM	DESIGNATION
(1) 98A35207599000	Adapter-Hose, Altitude Switch
(2)	Electrical Ground Power Unit - 3-Phase, 115/200 V, 400 Hz
(3)	Vacuum Source and Altitude Indicator

****ON A/C ALL**

Referenced Procedures

- | | |
|--------------------------|---------------------------|
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 35-21-00, P. Block 301 | Passenger Oxygen System |
| - 35-21-41, P. Block 401 | Altitude Switch |

EFFECTIVITY: ALL

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C. Procedure

(1) Job Set-up

- (a) Detach altitude switch 16WR from its bracket (Ref. 35-21-41, P. Block 401), but do not disconnect the electrical connector. Connect it to a vacuum source using hose-adaptor P/N 98A35207599000.
- (b) Connect electrical ground power unit and energize aircraft electrical network (Ref. 24-41-00, P. Block 301).
- (c) Make certain that electronics racks ventilation is correct.

(d) Make certain that the following circuit breakers are closed:

PANEL	SERVICE	IDENT.	LOCATION
22VU	PASSENGER OXYGEN CTL & WARN	1WR	H24
22VU	PASSENGER OXYGEN ACTUATION	2WR	H25
22VU	PASSENGER OXYGEN ACTUATION	3WR	H26
22VU	PASSENGER OXYGEN ACTUATION	4WR	H27
22VU	PASSENGER OXYGEN ACTUATION	5WR	H28
22VU	PASSENGER ADDRESS	5RY	B15
132VU	TAPE REPRODUCER	1RX	L77
132VU	TAPE REPRODUCER	2RX	L76

(2) Test

ACTION	RESULT
1. On vacuum source: - slowly increase altitude to approximately 15000 ft.	On panel 435VU: - indicator light SYS ACTUATED 13WR comes on at 14000 (+0 -500) ft. Passenger address system: - emergency announcement commences at 14000 (+0 -500) ft. On all emergency oxygen containers: - all doors open at 14000 (+0 -500) ft. and the masks drop down. On panel 472VU, after 30 sec.: - indicator light TMR NOT RESET 12WR comes on.
2. On vacuum source: - slowly decrease altitude to 0 ft.	
3. On panel 472VU: - press pushbutton RESET 15WR.	On panel 435VU: - indicator light SYS ACTUATED 13WR goes off. On panel 472VU: - indicator light TMR NOT RESET 12WR goes off.

EFFECTIVITY: ALL

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ACTION	RESULT
4. At purser's station Announcement Control Unit (7RX): - press pushbutton CANCEL.	Passenger address system: - emergency announcement ceases.
5. On all emergency oxygen containers: - visually inspect all generators, masks, hoses and latches for cleanliness and deterioration. - visually inspect generator and pull-pin for correct position. Identification plate and outlet valve must be visible and facing outward. The pull-pin ring must be pointed outward. (Ref. 35-21-00, P. Block 301).	

NOTE : For A/C equipped with Draeger Oxygen containers TYPE 1 (PN 1*C*****004) and TYPE 2 containers (PN22C*****004) make sure that the foam pad is installed and in good condition.

****ON A/C 226-226, 229-249,**

(3)Close-up

- (a)Pack and restow oxygen masks (Ref. 35-21-00, P. Block 301).
- (b)Close doors of all emergency oxygen containers as follows:
- depress spring loaded latch using manual release tool P/N 995000 and close doors.
- (c)De-energize aircraft electrical network and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).
- (d)Disconnect vacuum source and adapter P/N 98A35207599000 from altitude switch 16WR and refit altitude switch (Ref. 35-21-41, P. Block 401).
- (e)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

****ON A/C 401-401, 404-500,**

(3)Close-Up

- (a)Pack and restow oxygen masks (Ref. 35-21-00, P. Block 301).
- (b)Close doors of all emergency oxygen containers.
- (c)De-energize aircraft electrical network and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).
- (d)Disconnect vacuum source and adapter P/N 98A35207599000 from altitude switch 16WR and refit altitude switch. (Ref. 35-21-41, P. Block 401).
- (e)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

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****ON A/C ALL**

3. Operational and Functional Test

A. Reason for the Job

- (1) To combine operational and functional test into a single task.

****ON A/C 226-226, 229-249,**

B. Equipment and Materials

ITEM	DESIGNATION
(1) 995000	Tool - Manual Release
(2) 98A35207599000	Adapter-Hose, Altitude Switch
(3)	Electrical Ground Power Unit-3-Phase, 115/200 V, 400 Hz
(4)	Vacuum Source and Altitude Indicator

R **ON A/C 401-401, 404-500,

B. Equipment and Materials

ITEM	DESIGNATION
(1) 98A35207599000	Adapter-Hose, Altitude Switch
(2)	Electrical Ground Power Unit-3-Phase, 115/200 V, 400 Hz
(3)	Vacuum Source and Altitude Indicator

****ON A/C ALL**

Referenced Procedures

- | | |
|--------------------------|---------------------------|
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 35-21-00, P. Block 301 | Passenger Oxygen System |
| - 35-21-41, P. Block 401 | Altitude Switch |

C. Procedure

(1) Job Set-Up

- (a) Detach altitude switch 16WR from its bracket (Ref. 35-21-41, P. Block 401), but do not disconnect the electrical connector.
Connect a vacuum source using hose-adapter P/N 98A35207599000.
- (b) Connect electrical ground power unit and energize aircraft electrical

EFFECTIVITY: ALL

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network (Ref. 24-41-00, P. Block 301).

(c) Make certain that electronics racks ventilation is correct.

(d) On the first two emergency oxygen containers of each side and center row, pull out and rotate test buttons through 90° to TEST position.

R

(e) Make certain that the following circuit breakers are closed:

PANEL	SERVICE	IDENT.	LOCATION
22VU	PASSENGER OXYGEN CTL & WARN	1WR	H24
22VU	PASSENGER OXYGEN ACTUATION	2WR	H25
22VU	PASSENGER OXYGEN ACTUATION	3WR	H26
22VU	PASSENGER OXYGEN ACTUATION	4WR	H27
22VU	PASSENGER OXYGEN ACTUATION	5WR	H28
22VU	PASSENGER ADDRESS	5RY	B15
132VU	TAPE REPRODUCER	1RX	L77
132VU	TAPE REPRODUCER	2RX	L76

R

(2) Test

ACTION	RESULT
1. On vacuum source: - slowly increase altitude to approximately 15000 ft.	On panel 435VU: - indicator light SYS ACTUATED 13WR comes on at 14000 (+0 -500) ft. Passenger address system: - emergency announcement commences at 14000 (+0 -500) ft. On all emergency oxygen containers: - all doors open at 14000 (+0 -500) ft. and the masks drop down, except those where test buttons are in test position. On panel 472VU, after 30 sec.: - indicator light TMR NOT RESET 12WR comes on.
2. On vacuum source: - slowly decrease altitude to 0 ft.	
3. On panel 472VU: - press bushbutton RESET 15WR.	On panel 435VU: - indicator light SYS ACTUATED 13WR goes off. On panel 472VU: - indicator light TMR NOT RESET 12WR goes off.
4. At purser's station Announcement Control Unit (7RX): - press pushbutton CANCEL.	Passenger address system: - emergency announcement ceases.

EFFECTIVITY: ALL

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ACTION	RESULT
5. Close first two emergency oxygen containers of each side and center row: - put test buttons to operating position.	
6. On panel 435VU: - lift guard and press pushbutton MAN OVRD 14WR.	On panel 435VU: - indicator light SYS ACTUATED 13WR comes on. Passenger address system: - emergency announcement commences. On emergency oxygen containers: - doors closed in para. 5. open and the masks drop down.
7. On panel 472VU: - press pushbutton RESET 15WR.	On panel 435VU: - indicator light SYS ACTUATED 13WR goes off. Passenger address system: - emergency announcement ceases.
8. At purser's station Announcement Control Unit (7RX): - press pushbutton CANCEL.	
9. On all emergency oxygen containers: - visually inspect all generators, masks, hoses and latches for cleanliness and deterioration. - visually inspect generator and pull-pin for correct position. Identification plate and outlet valve must be visible and facing outward. The pull-pin ring must be pointed outward. (Ref. 35-21-00, P. Block 301).	

****ON A/C 226-226, 229-249,**

(3)Close-Up

- (a)Pack and restow oxygen masks (Ref. 35-21-00, P. Block 301).
- (b)Close doors of all emergency oxygen containers as follows:
- depress spring loaded latch using manual release tool P/N 995000 and close doors.
- (c)De-energize aircraft electrical network and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).
- (d)Disconnect vacuum source and adapter P/N 98A35207599000 from altitude switch 16WR and refit altitude switch. (Ref. 35-21-41, P. Block 401).
- (e)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

EFFECTIVITY: ALL

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R **0N A/C 401-401, 404-500,

(3)Close-Up

(a)Pack and restow oxygen masks (Ref. 35-21-00, P. Block 301).

(b)Close doors of all emergency oxygen containers.

(c)De-energize aircraft electrical network and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).

(d)Disconnect vacuum source and adapter P/N 98A35207599000 from altitude switch 16WR and refit altitude switch (Ref. 35-21-41, P. Block 401).

(e)Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

R EFFECTIVITY: 401-401, 404-500,

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PASSENGER OXYGEN SYSTEM - INSPECTION/CHECK

1. Passenger Oxygen System - Inspection/Check

WARNING : MAKE SURE THAT YOU OBEY THE MANUFACTURER'S INSTRUCTIONS AND NATIONAL HAZARDOUS MATERIAL REGULATIONS WHEN YOU MOVE OR KEEP THIS EQUIPMENT IN STORAGE:

- CHEMICAL OXYGEN GENERATORS
- PROTECTIVE BREATHING EQUIPMENT
- FIXED AND PORTABLE OXYGEN CYLINDERS.

SPECIAL PRECAUTIONS ARE NECESSARY FOR THIS EQUIPMENT.

CAUTION : DO NOT PULL THE GENERATOR END OF THE LANYARD.
YOU WILL START THE OPERATION OF THE GENERATOR.

A. Reasons for the Job

- (1) Detailed visual inspection of the oxygen mask assemblies.
- (2) Detailed visual inspection of the chemical oxygen generators.
- (3) Detailed visual inspection of the release latches.

B. Equipment and Materials

ITEM	DESIGNATION
(1)	Electrical Ground Power Unit - 3-Phase, 115/200 V, 400 Hz

Referenced Procedures

- | | |
|--------------------------|----------------------------|
| - 24-41-00, P. Block 301 | AC External Power Control |
| - 35-21-00, P. Block 301 | Passenger Oxygen System |
| - 35-21-13, P. Block 401 | Emergency Oxygen Generator |

C. Procedure

(Ref. Fig. 601)

(1) Job Set-Up

- (a) Connect the electrical ground power unit and energize the aircraft electrical network (Ref. 24-41-00, P. Block 301).
- (b) Make certain that the electronics racks ventilation is correct.
- (c) Make certain that the following circuit breakers are closed:

PANEL	SERVICE	IDENT.	LOCATION
22VU	PASSENGER OXYGEN CTL & WARN	1WR	H24
22VU	PASSENGER OXYGEN ACTUATION	2WR	H25
22VU	PASSENGER OXYGEN ACTUATION	2WR	H26
22VU	PASSENGER OXYGEN ACTUATION	2WR	H27
22VU	PASSENGER OXYGEN ACTUATION	2WR	H28

(2) Open the emergency oxygen containers.

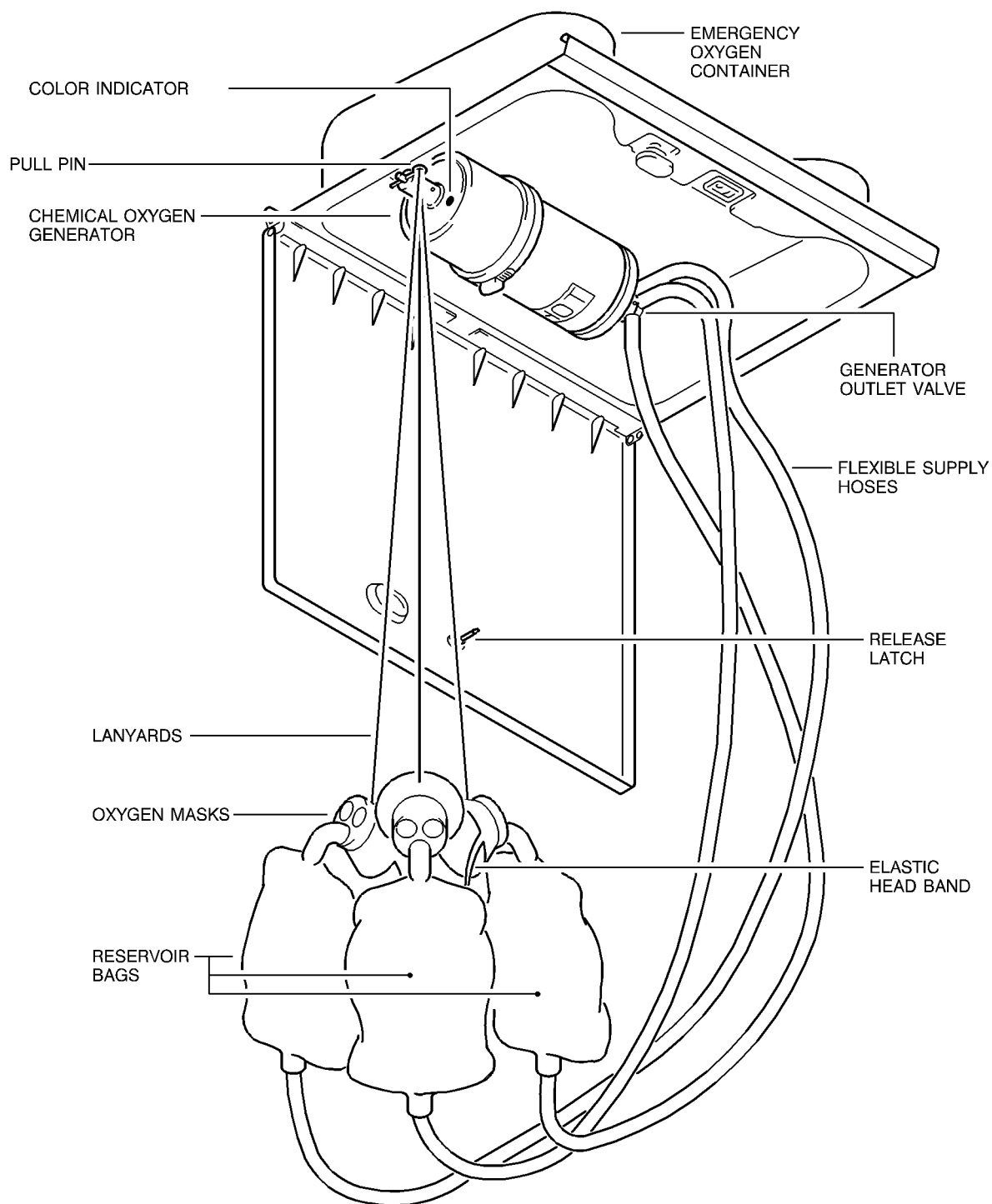
- (a) On the overhead panel 435VU, lift the guard and press the MASK MAN OVR 14WR pushbutton.

EFFECTIVITY: ALL

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NOTE: 3 MASK CONTAINER SHOWN

Typical Emergency Oxygen Container
(Sheet 1 of 2)
Figure 601

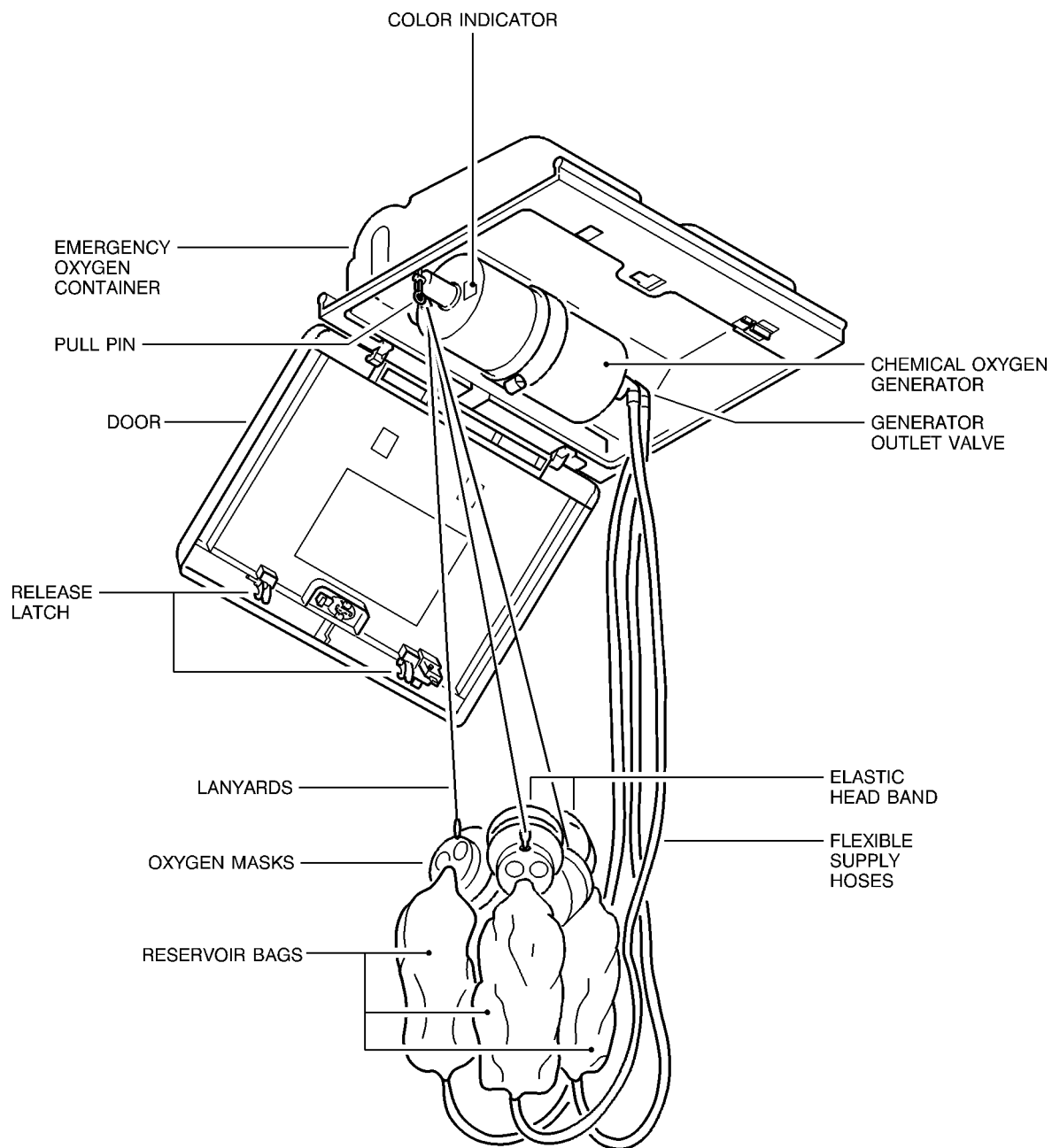
EFFECTIVITY: ALL

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NOTE: 3 MASK CONTAINER SHOWN

Typical Emergency Oxygen Container
(Sheet 2 of 2)
Figure 601

EFFECTIVITY: ALL

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- (b) On the panel 472VU, press the pushbutton PUSH TO RESET 15WR.
(3) Detailed visual inspection of oxygen mask assemblies:
(Ref. Fig. 601).

CAUTION : DO NOT PULL THE GENERATOR-END OF THE LANYARD.
YOU WILL START THE OPERATION OF THE GENERATOR.

- (a) Examine the oxygen masks:
- for cracks
 - for color changes
 - for dirt.
- (b) Examine the flexible supply hoses:
- for correct attachment to the reservoir bag and the generator
 - for kinks
 - for color changes.
- (c) Examine the reservoir bags:
- for correct connection to the mask and the supply hoses
 - for tears
 - that you can read the inscription.
- (d) Examine the elastic headband:
- for overextension
 - for elasticity
 - for correct attachment to the mask.

- (e) Do a check of the lanyards:

- R 1 Give the lanyard to mask connection a strong, short pull to make
R sure that the connection is satisfactory.
R 2 Do a visual check of the attachments and make sure that only one
 lanyard cord is in the eyelet of the release pin. The other lanyard
 cords are on the shaft of the release pin.

- (4) Detailed visual inspection of the chemical oxygen generators
(Ref. Fig. 601)

CAUTION : DO NOT PULL THE GENERATOR-END OF THE LANYARD.
YOU WILL START THE OPERATION OF THE GENERATOR.

- (a) Examine the chemical oxygen generators. Make sure that:
- the generator outlet valve is not damaged, corroded, cracked or loose
 - the pull-pin is installed in the generator housing
 - the temperature sensitive indicator tape is yellow.

NOTE : A black indicator tape signals that the chemical oxygen generator has been used and should be replaced (Ref. 35-21-13, P. Block 401).

- (5) Detailed visual inspection of the release latches
(Ref. Fig. 601)

- (a) Examine the release latches for damage.

- (6) Close-Up

- (a) Install the oxygen masks in the oxygen containers (Ref. 35-21-00, P. Block 301).

EFFECTIVITY: ALL

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- (b) Make certain that working area is clean and clear of tools and miscellaneous items of equipment.
- (c) De-energize aircraft electrical network and disconnect electrical ground power unit (Ref. 24-41-00, P. Block 301).

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EMERGENCY OXYGEN CONTAINER - REMOVAL/INSTALLATION

1. Reason for the Job

A. Malfunction of Door Latching Mechanism

**0N A/C 226-226, 229-249,

2. Equipment and Materials

ITEM	DESIGNATION
R A.	Warning Notice
R B. 98A25207503000	Pulley Assembly - Sealing Cord
Referenced Procedures	
- 25-23-13, P. Block 401	Utility Area Ceiling Panels
- 25-23-21, P. Block 401	Upper Sidewall Panels
- 35-21-00, P. Block 501	Passenger Oxygen System

**0N A/C 401-401, 404-500,

2. Equipment and Materials

ITEM	DESIGNATION
R A.	Warning Notice
R B. 98A25207503000	Pulley Assembly - Sealing Cord
Referenced Procedures	
- 25-23-13, P. Block 401	Utility Area Ceiling Panels
- 25-23-21, P. Block 401	Upper Sidewall Panels
- 25-23-41, P. Block 401	Door Frame Lining
- 35-21-00, P. Block 501	Passenger Oxygen System

**0N A/C ALL

3. Procedure

A. Job Set-up

- R (1) Put a warning notice in the flight compartment prohibiting operation of
R pushbutton MASK MAN OVR 14WR and pushbutton PUSH TO RESET 15WR.
R (2) Open, safety and tag the following circuit breakers:

PANEL	SERVICE	IDENT.	LOCATION
22VU	PASSENGER OXYGEN/CTL & WARN	1WR	H24
22VU	PASSENGER OXYGEN/ACTUATION	2WR	H25
22VU	PASSENGER OXYGEN/ACTUATION	3WR	H26
22VU	PASSENGER OXYGEN/ACTUATION	4WR	H27

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PANEL	SERVICE	IDENT.	LOCATION
22VU	PASSENGER OXYGEN/ACTUATION	5WR	H28

**ON A/C 226-226, 229-249,

(Ref. Fig. 401)

(Ref. Fig. 402)

**ON A/C 401-401, 404-500,

Post COCAUA-DA25-072 For A/C 401-401,404-500,

(Ref. Fig. 403)

**ON A/C ALL

WARNING : MAKE SURE THAT YOU OBEY THE MANUFACTURER'S INSTRUCTIONS AND NATIONAL HAZARDOUS MATERIAL REGULATIONS WHEN YOU MOVE OR KEEP THIS EQUIPMENT IN STORAGE:

- CHEMICAL OXYGEN GENERATORS
- PROTECTIVE BREATHING EQUIPMENT
- FIXED AND PORTABLE OXYGEN CYLINDERS.

SPECIAL PRECAUTIONS ARE NECESSARY FOR THIS EQUIPMENT.

CAUTION : AFTER REMOVAL OF THE EMERGENCY OXYGEN CONTAINERS, MAKE SURE THAT THE SAFETY RINGS OR THE SAFETY PINS ARE INSTALLED IF YOU MUST:

- MOVE THE EMERGENCY OXYGEN CONTAINERS TO A DIFFERENT LOCATION, OR
- PUT THEM INTO STORAGE.

**ON A/C 226-226, 229-249,

B. Removal

- (1) Removal of service channel-mounted emergency oxygen container.
 - (a) Remove mounting seals (1) from service rails (2).
 - (b) Disengage and lower one side of emergency oxygen container (4) from service rail (2).
 - (c) Disconnect electrical connections (5).
 - (d) Remove emergency oxygen container (4) from service rail (2).
 - (e) If required, remove clips (7) and infill panels (9) from mounting panel (8).
- (2) Removal of ceiling panel and sidewall-mounted emergency oxygen container.
 - (a) Remove appropriate panel:
 - ceiling panel (Ref. 25-23-13, P. Block 401).
 - upper sidewall panel (Ref. 25-23-21, P. Block 401).
 - (b) Open ceiling service panel in lavatories.
 - (c) Open purser's station panel.
 - (d) Disconnect electrical connections (1).

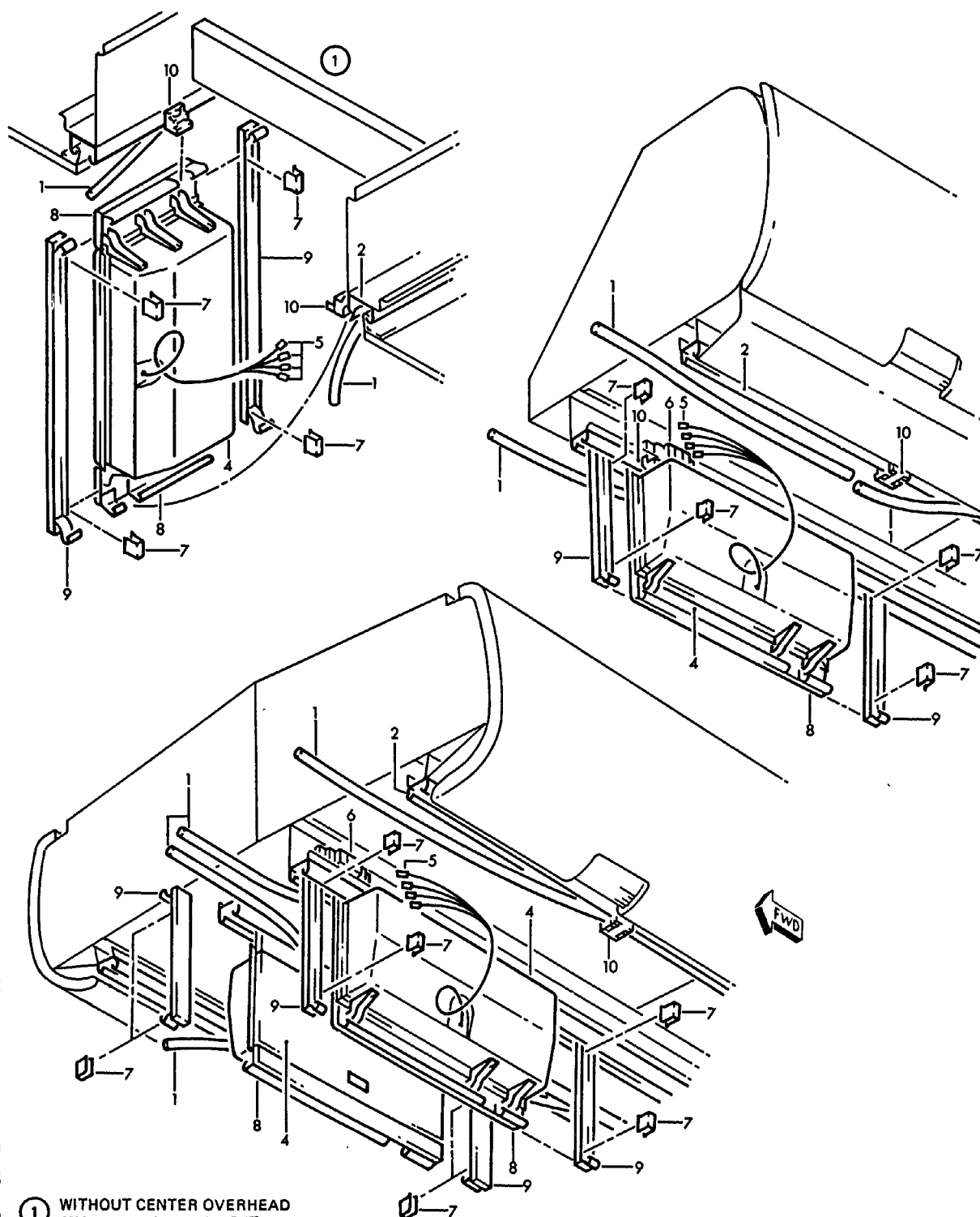
EFFECTIVITY: ALL

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Emergency Oxygen Containers
Figure 401

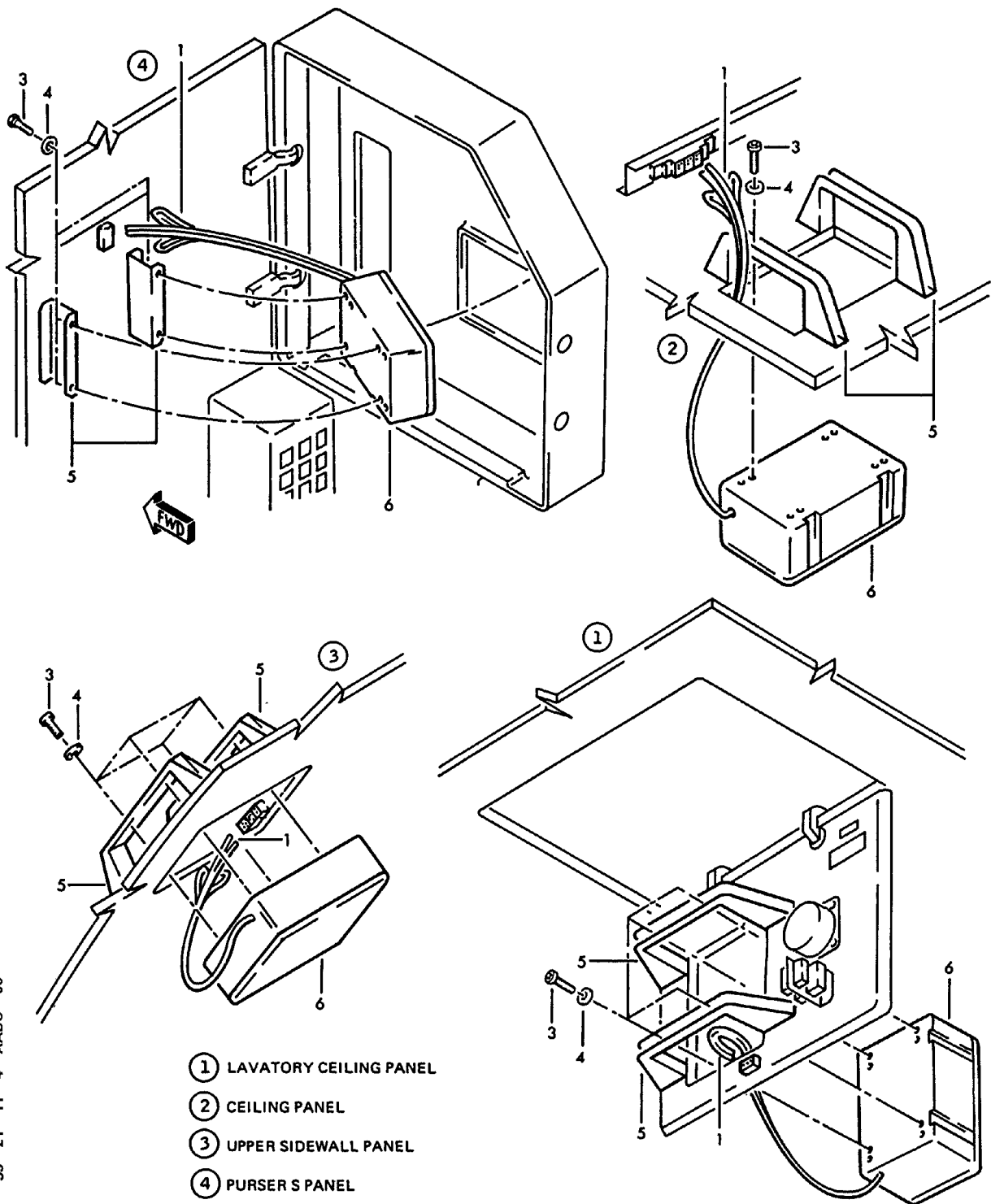
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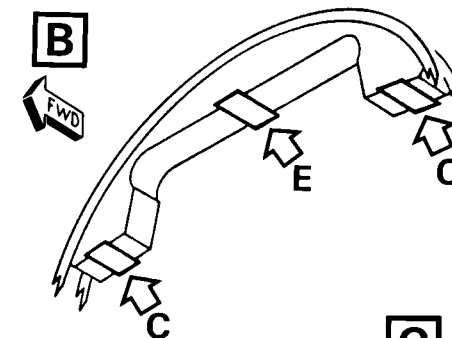
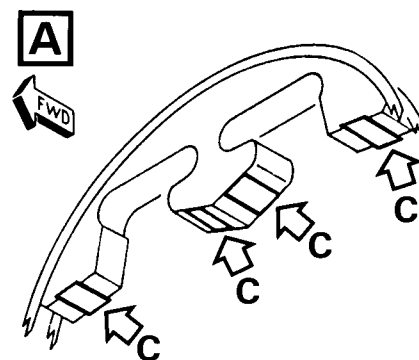
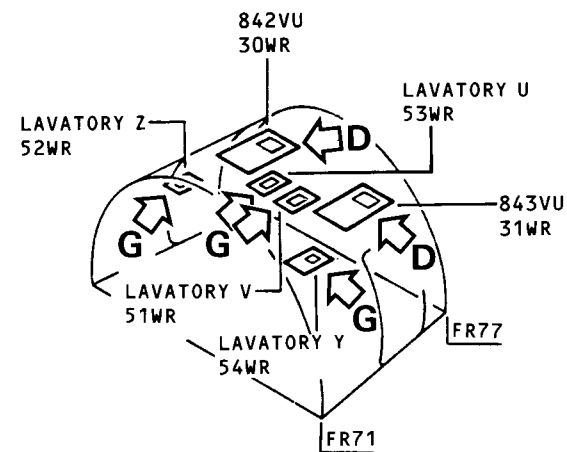
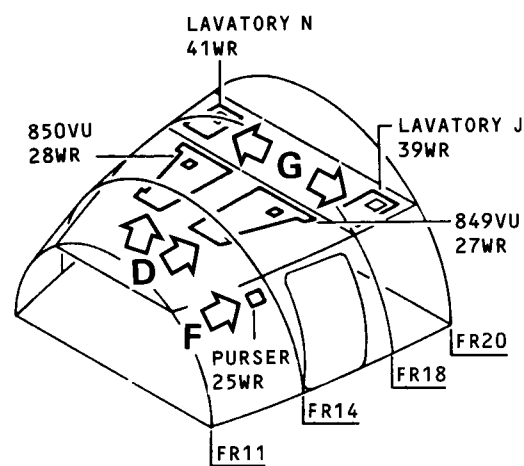
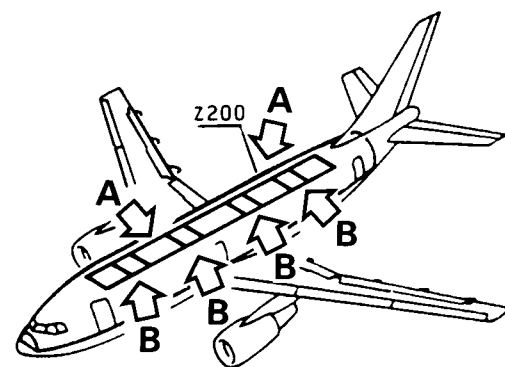
Emergency Oxygen Containers
 Figure 402

R EFFECTIVITY: 226-226, 229-249,

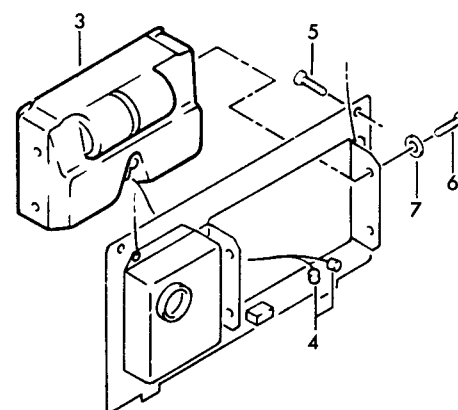
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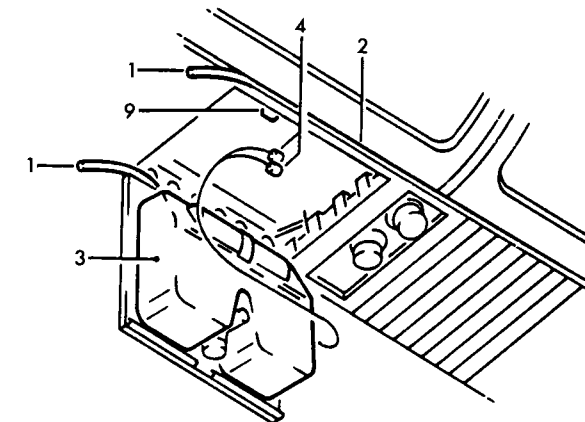
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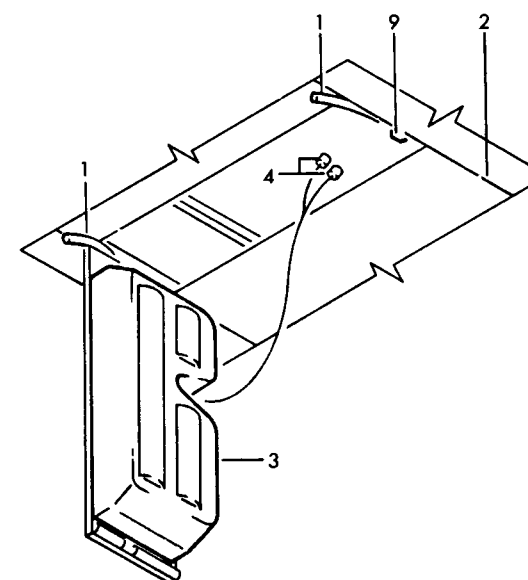
G LAVATORY CEILING SERVICE PANEL



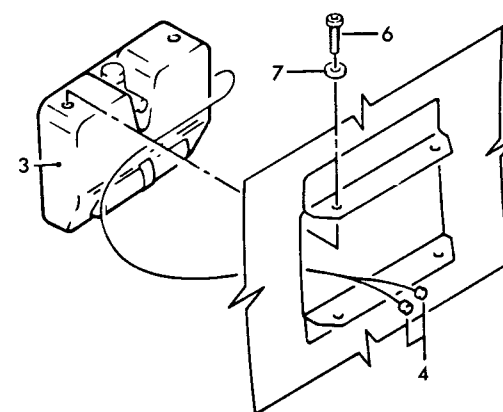
C SERVICE CHANNEL



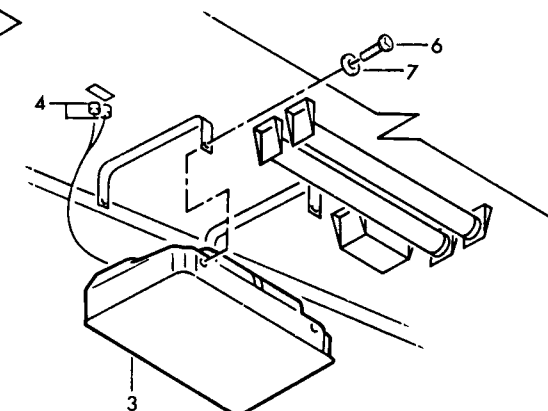
E SERVICE CHANNEL



F DOOR FRAME LINING



D UTILITY AREA CEILING PANEL



Emergency Oxygen Container
Figure 403

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R EFFECTIVITY: 401-401, 404-500,

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- (e) Remove screws (3) and washers (4) from brackets (5).
- (f) Remove emergency oxygen container (6).

NOTE : Inspect service rail for damage.

****ON A/C 401-401, 404-500,**

B. Removal

- (1) Removal of service channel-mounted emergency oxygen containers.
 - (a) Remove mounting seals (1) from service rails (2).
 - (b) Disengage and lower one side of oxygen container (3).
 - (c) Disconnect electrical connectors (4) and release cable ties.
 - (d) Remove oxygen container (3) from service rail (2).
- (2) Removal of utility area ceiling panel-mounted emergency oxygen containers.
 - (a) Release quick-release fasteners and remove panel (Ref. 25-23-13, P. Block 401).
 - (b) Disconnect electrical connectors (4) and release cable ties.
 - (c) Remove screws (6) and washers (7) from brackets.
 - (d) Remove oxygen container (3) from brackets.
- (3) Removal of lavatory-mounted emergency oxygen containers.
 - (a) Remove screws (5) from lavatory ceiling service panel and lower panel.
 - (b) Disconnect electrical connectors (4) and release cable ties.
 - (c) Remove screws (6) and washers (7) from brackets.
 - (d) Remove oxygen container (3) from brackets.
- (4) Removal of door frame lining-mounted emergency oxygen containers.
 - (a) Remove appropriate panel (Ref. 25-23-41, P. Block 401).
 - (b) Disconnect electrical connectors (4) and release cable ties.
 - (c) Remove screws (6) and washers (7) from brackets.
 - (d) Remove oxygen container (3) from brackets.

****ON A/C ALL**

CAUTION : IF THERE IS A YELLOW WARNING FLAG ON THE OUTSIDE OF THE EMERGENCY OXYGEN CONTAINER, A SAFETY RING OR A SAFETY PIN IS INSTALLED. THIS SAFETY RING OR SAFETY PIN MUST BE REMOVED BEFORE THE EMERGENCY OXYGEN CONTAINERS ARE INSTALLED ON THE AIRCRAFT.

****ON A/C 226-226, 229-249,**

C. Installation

- (1) Install service channel-mounted emergency oxygen container (Ref. Fig. 401).
 - (a) Remove and discard the old test button label.
 - (b) Fill the date (month and year) in the space of the new test button label as necessary and apply the new test button label at the end of the test button assy.
 - (c) Install infill panels (9) on mounting panel (8) and secure with clips (7).
 - (d) Correctly orientate emergency oxygen container (4) and attach one side

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- to service rail (2).
- (e) Connect electrical connections (5).
- (f) Raise emergency oxygen container and clip to service rail.
- (g) Make sure that there is a clearance of 1,5 mm to 2,0 mm at each side of the oxygen container door.
If necessary, release clamping block (10) reposition oxygen container and secure clamping block (10).
- (h) Press mounting seals (1) into service rails (2) using pulley assembly P/N 9825207503000.
- (j) Seat mounting seals by rolling pulley assembly fore and aft over seals.
NOTE : Rolling mounting seals in one direction only causes them to contract. Make certain that abutments of mounting seals do not align with joints between panels.
- (2) Install ceiling panel and sidewall-mounted emergency oxygen container (Ref. Fig. 402).
NOTE : Ensure that the doors of vertically installed emergency oxygen container swing downwards when opened.
- (a) Remove and discard the old test button label.
- (b) Fill the date (month and year) in the space of the new test button label as necessary and apply the new test button label at the end of the test button assy.
- (c) Position emergency oxygen container (6) on brackets (5) and secure with screws (3) and washers (4).
- (d) Connect electrical connections (1).
- (e) Install ceiling panels (Ref. 25-23-13, P. Block 401) or upper sidewall panels (Ref. 25-23-21, P. Block 401).

****0N A/C 401-401,**

C. Installation

- (1) Installation of service channel-mounted emergency oxygen containers.
 - (a) Remove and discard the old test button label.
 - (b) Fill the date (month and year) in the space of the new test button label as necessary and apply the new test button label at the end of the test button assy.
 - (c) Put oxygen container (3) in position and attach one side to service rail (2).
 - (d) Connect electrical connectors (4) and secure excess connecting cable.
 - (e) Lift and engage oxygen container (3) to service rail (2).
 - (f) Make sure that there is a clearance of 1,5 mm to 2,0 mm at each side of the oxygen container door.
If necessary, release clamping block (9) reposition oxygen container and secure clamping block (9).
 - (g) Install mounting seals (1) into service rails (2) using pulley assembly P/N 98A25207503000.
NOTE : Use roller along mounting seals (1) in both directions. Make sure that the joints of mounting seals (1) do not align with the joints between the panels.
- (2) Installation of utility area ceiling panel-mounted emergency oxygen containers.

EFFECTIVITY: 226-226, 229-249, 401-401,

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- (a) Remove and discard the old test button label.
 - (b) Fill the date (month and year) in the space of the new test button label as necessary and apply the new test button label at the end of the test button assy.
 - (c) Put the oxygen container (3) on the brackets of the ceiling panel and attach it with screws (6) and washers (7).
 - (d) Connect electrical connectors (4) and secure cable ties.
 - (e) Locate panel and secure quick-release fasteners (Ref. 25-23-13, P. Block 401).
- (3) Installation of lavatory-mounted emergency oxygen containers.
- (a) Remove and discard the old test button label.
 - (b) Fill the date (month and year) in the space of the new test button label as necessary and apply the new test button label at the end of the test button assy.
 - (c) Put the oxygen container (3) on the brackets of the lavatory ceiling service panel and attach it with screws (6) and washers (7).
 - (d) Connect the electrical connectors (4) and secure cable ties.
 - (e) Install the lavatory ceiling service panel with screws (5).
- (4) Installation of door frame lining-mounted emergency oxygen containers.
- (a) Remove and discard the old test button label.
 - (b) Fill the date (month and year) in the space of the new test button label as necessary and apply the new test button label at the end of the test button assy.
 - (c) Put the oxygen container (3) in position and make certain that the door-hinge is at the lower side of the container (3).
 - (d) Install the oxygen container (3) on the brackets with screws (6) and washers (7).
 - (e) Connect electrical connectors (4) and secure cable ties.
 - (f) Install the appropriate panel (Ref. 25-23-41, P. Block 401).

****0N A/C 404-500,**

C. Installation

- (1) Installation of service channel-mounted emergency oxygen containers.
 - (a) Remove and discard the old test button label.
 - (b) Fill the date (month and year) in the space of the new test button label as necessary and apply the new test button label at the end of the test button assy.
 - (c) Put oxygen container (3) in position and attach one side to service rail (2).
 - (d) Connect electrical connectors (4) and secure excess connecting cable.
 - (e) Lift and engage oxygen container (3) to service rail (2).
 - (f) Make sure that there is a clearance of 1,5 mm to 2,0 mm at each side of the oxygen container door.
If necessary, release clamping block (9) reposition oxygen container and secure clamping block (9).
 - (g) Install mounting seals (1) into service rails (2) using pulley assembly P/N 98A25207503000.
- NOTE :** Use roller along mounting seals (1) in both directions. Make sure that the joints of mounting seals (1) do not align with the

EFFECTIVITY: 401-401, 404-500,

R

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- joints between the panels.
- (2) Installation of utility area ceiling panel-mounted emergency oxygen containers.
- (a) Remove and discard the old test button label.
 - (b) Fill the date (month and year) in the space of the new test button label as necessary and apply the new test button label at the end of the test button assy.
 - (c) Put the oxygen container (3) on the brackets of the ceiling panel and attach it with screws (6) and washers (7).
 - (d) Connect electrical connectors (4) and secure cable ties.
 - (e) Locate panel and secure quick-release fasteners (Ref. 25-23-13, P. Block 401).
- (3) Installation of lavatory-mounted emergency oxygen containers.
- (a) Remove and discard the old test button label.
 - (b) Fill the date (month and year) in the space of the new test button label as necessary and apply the new test button label at the end of the test button assy.
 - (c) Put the oxygen container (3) on the brackets of the lavatory ceiling service panel and attach it with screws (6) and washers (7).
 - (d) Connect the electrical connectors (4) and secure cable ties.
 - (e) Install the lavatory ceiling service panel with screws (5).
- (4) Installation of door frame lining-mounted emergency oxygen containers.
- (a) Remove and discard the old test button label.
 - (b) Fill the date (month and year) in the space of the new test button label as necessary and apply the new test button label at the end of the test button assy.
 - (c) Put the oxygen container (3) in position and make certain that the door-hinge is at the lower side of the container (3).
 - (d) Install the oxygen container (3) on the brackets with screws (6) and washers (7).
 - (e) Connect electrical connectors (4) and secure cable ties.
 - (f) Install the appropriate panel (Ref. 25-23-41, P. Block 401).

****ON A/C ALL**

D. Test

- (1) Carry out an operational test (Ref. 35-21-00, P. Block 501).

E. Close-Up

- R (1) Remove warning notice from the flight compartment.
- R (2) Make sure that working area is clean and clear of tools and miscellaneous items of equipment.

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EMERGENCY OXYGEN GENERATOR - REMOVAL/INSTALLATION

****ON A/C 226-226, 229-249,**

WARNING : OILS AND GREASES PRESENT A FIRE HAZARD WHEN IN CONTACT WITH OXYGEN, THEREFORE ALL TOOLS MUST BE CLEAN.

WARNING : A RECENTLY EXPENDED OXYGEN GENERATOR WILL BE HOT AND SHOULD BE ALLOWED TO COOL FOR ONE HOUR BEFORE REMOVAL.

WARNING : MAKE SURE THAT YOU OBEY THE MANUFACTURER'S INSTRUCTIONS AND NATIONAL HAZARDOUS MATERIAL REGULATIONS WHEN YOU MOVE OR KEEP THIS EQUIPMENT IN STORAGE:

- CHEMICAL OXYGEN GENERATORS
- PROTECTIVE BREATHING EQUIPMENT
- FIXED AND PORTABLE OXYGEN CYLINDERS.

SPECIAL PRECAUTIONS ARE NECESSARY FOR THIS EQUIPMENT.

CAUTION : AVOID UNINTENTIONAL PULL ON LANYARDS AS THE REMOVAL OF THE PULL PIN FROM UNUSED GENERATORS WILL START OXYGEN FLOW WHICH CANNOT BE STOPPED.

CAUTION : RETAINER STRAPS ARE OF STAINLESS SPRING STEEL AND ARE UNDER TENSION.

R **ON A/C 401-401, 404-500,

WARNING : OILS AND GREASES PRESENT A FIRE HAZARD WHEN IN CONTACT WITH OXYGEN, THEREFORE ALL TOOLS MUST BE CLEAN.

WARNING : A RECENTLY EXPENDED OXYGEN GENERATOR WILL BE HOT AND SHOULD BE ALLOWED TO COOL FOR ONE HOUR BEFORE REMOVAL.

WARNING : MAKE SURE THAT YOU OBEY THE MANUFACTURER'S INSTRUCTIONS AND NATIONAL HAZARDOUS MATERIAL REGULATIONS WHEN YOU MOVE OR KEEP THIS EQUIPMENT IN STORAGE:

- CHEMICAL OXYGEN GENERATORS
- PROTECTIVE BREATHING EQUIPMENT
- FIXED AND PORTABLE OXYGEN CYLINDERS.

SPECIAL PRECAUTIONS ARE NECESSARY FOR THIS EQUIPMENT.

CAUTION : AVOID UNINTENTIONAL PULL ON LANYARDS AS THE REMOVAL OF THE PULL PIN FROM UNUSED GENERATORS WILL START OXYGEN FLOW WHICH CANNOT BE STOPPED.

****ON A/C ALL**

1. Reason for the Job

A. Replacement of emergency oxygen generators.

2. Equipment and Materials

ITEM	DESIGNATION
A. 995000	Tool - Manual Release

Referenced Procedure

EFFECTIVITY: ALL

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- 35-21-00, P. Block 301 Passenger Oxygen System
- 35-21-00, P. Block 501 Passenger Oxygen System

****ON A/C 226-226, 229-249,**

3. Procedure

A. Job Set-Up

(1) Open safety and tag the following circuit breakers:

PANEL	SERVICE	IDENT.	LOCATION
22VU	PASSENGER OXYGEN/CTL & WARN	1WR	H24
22VU	PASSENGER OXYGEN/ACTUATION	2WR	H25
22VU	PASSENGER OXYGEN/ACTUATION	3WR	H26
22VU	PASSENGER OXYGEN/ACTUATION	4WR	H27
22VU	PASSENGER OXYGEN/ACTUATION	5WR	H28

(2) Open emergency oxygen container door.

(a) Insert release tool P/N995000 (pin end) into access hole of door and push inward until latch is released.

NOTE : When the latch releases, the door and oxygen masks will drop.

R **ON A/C 401-401, 404-500,

3. Procedure

A. Job Set-Up

(1) Open safety and tag the following circuit breakers:

PANEL	SERVICE	IDENT.	LOCATION
22VU	PASSENGER OXYGEN/CTL & WARN	1WR	H24
22VU	PASSENGER OXYGEN/ACTUATION	2WR	H25
22VU	PASSENGER OXYGEN/ACTUATION	3WR	H26
22VU	PASSENGER OXYGEN/ACTUATION	4WR	H27
22VU	PASSENGER OXYGEN/ACTUATION	5WR	H28

(2) Open emergency oxygen container door using manual release tool P/N 995000.

****ON A/C ALL**

R CAUTION : AFTER REMOVAL OF THE EMERGENCY OXYGEN GENERATOR, MAKE SURE THAT THE SAFETY RING OR THE SAFETY PIN ARE INSTALLED IF YOU MUST:

- MOVE THE EMERGENCY OXYGEN GENERATORS TO A DIFFERENT LOCATION, OR
- PUT THEM INTO STORAGE.

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****0N A/C 226-226, 229-249,**

B. Removal (Ref. Fig. 401)

CAUTION : AVOID UNINTENTIONAL PULL ON LANYARDS (1).

(1) Disconnect lanyards (1) at junction (2) or at mask (3).

(2) Remove heatshield (4) from retainers (5).

CAUTION : RETAINER STRAPS ARE UNDER TENSION.

(3) Remove screws (6) from retainer straps (7).

(4) Remove generator (8) from brackets (9).

(5) Carefully slide supply hoses (10) from manifold (11) and remove masks.

R **0N A/C 401-401, 404-500,

B. Removal (Ref. Fig. 402)

CAUTION : AVOID UNINTENTIONAL PULL ON LANYARDS (2).

(1) Disconnect the masks (1) from the lanyards (2).

(2) Disconnect the ball-retainer (3) from the holder (4) in the container.

(3) Release the clamp (5) and remove the generator (6).

(4) Carefully slide supply hoses (7) from manifold (8) and remove masks (1).

****0N A/C ALL**

R CAUTION : IF THERE IS A YELLOW WARNING FLAG INSTALLED ON THE EMERGENCY
R OXYGEN GENERATOR A SAFETY RING OR A SAFETY PIN IS INSTALLED ON THE
R EMERGENCY OXYGEN GENERATOR. THIS SAFETY RING OR SAFETY PIN MUST BE
R REMOVED BEFORE THE EMERGENCY OXYGEN GENERATOR IS INSTALLED IN THE
EMERGENCY OXYGEN CONTAINER ON THE AIRCRAFT.

****0N A/C 226-226, 229-249,**

C. Installation (Ref. Fig. 401)

CAUTION : AVOID UNINTENTIONAL PULL ON LANYARDS (1).

(1) Slide supply hoses (10) fully over manifold outlets (11).

NOTE : To facilitate installation, dip the end of supply tubing into clean water.

(2) Position generator on brackets (9) and secure with retainer straps (7) and screws (6).

(3) Install heatshield (4) on retainers (5).

(4) Connect lanyards at junction (2) or at mask (3).

NOTE : Visually inspect generator and pull-pin for correct position. Identification plate and outlet valve must be visible and facing outward. The pull-pin must be pointed outward.

(5) Place oxygen mask in emergency oxygen container (Ref. 35-21-00, P. Block 301).

(6) Close emergency oxygen container door.

(a) Close door against latch.

(b) Insert manual release tool P/N995000 (pin end) into access hole of door

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and push inward to release latch.
(c) Push door fully closed and remove tool.

****ON A/C 401-401, 404-500,**

C. Installation (Ref. Fig. 402)

CAUTION : AVOID UNINTENTIONAL PULL ON LANYARDS (2).

(1) Slide supply hoses (7) fully over manifold outlets (8).

NOTE : To facilitate installation, dip the end of supply tubing into clean water.

(2) Install the generator (6) in container, make sure the pin engages in the clamp (5) and tighten the clamp.

(3) Connect the ball-retainer (3) into the holder (4) in the container.

(4) Connect lanyards (2) to the oxygen masks (1).

NOTE : Visually inspect generator and pull-pin for correct position. Identification plate and outlet valve must be visible and facing outward. The pull-pin must be pointed outward.

(5) The actuator end with the pull pin and lanyards must point in the same direction as the latch assy wire routing.

(6) Place oxygen mask in emergency oxygen container (Ref. 35-21-00, P. Block 301) and close the door.

****ON A/C ALL**

D. Test

(1) Carry out an operational test (Ref. 35-21-00, P. Block 501).

E. Close-up

(1) Make sure that the work area is clean and clear of tools and other items of equipment.

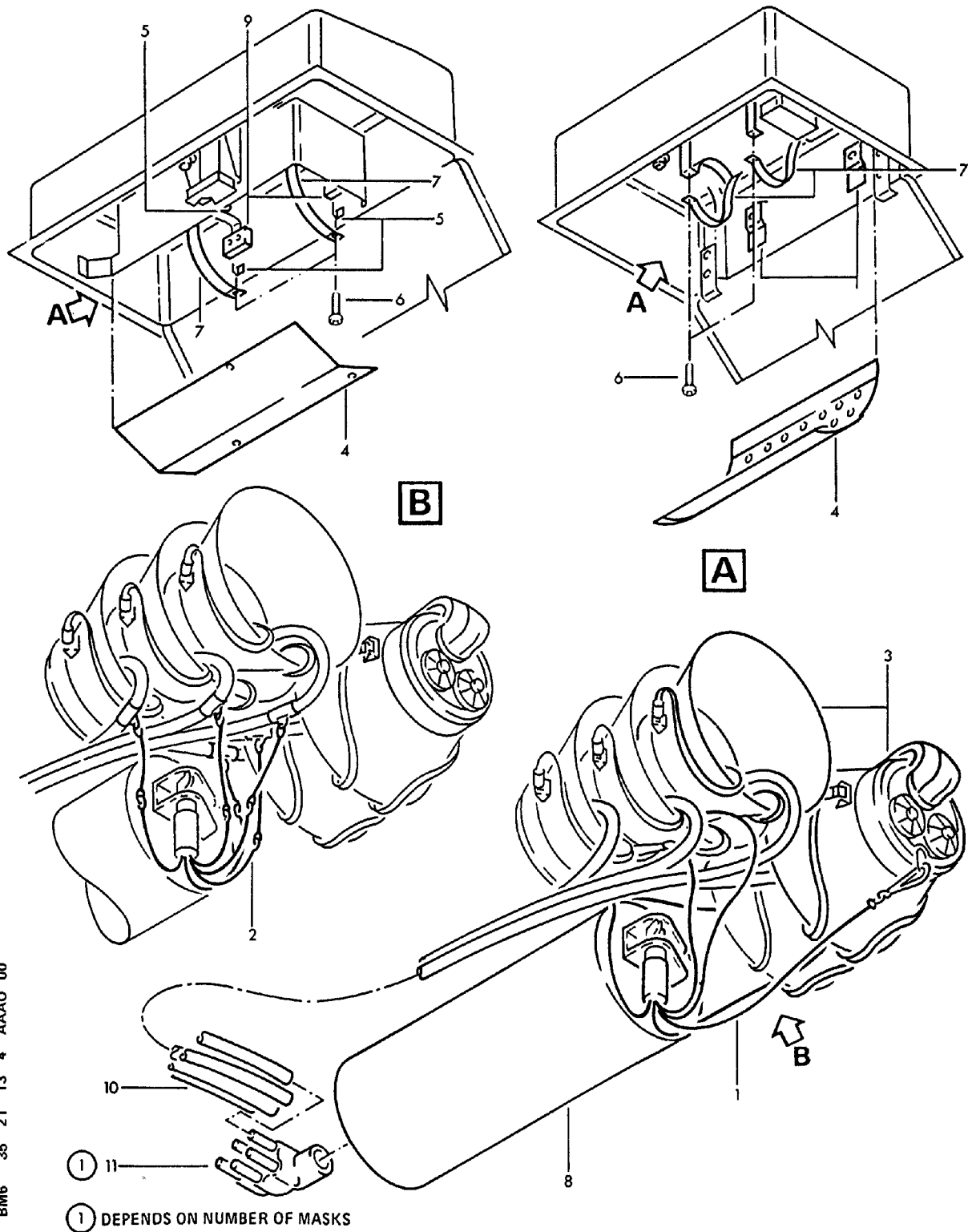
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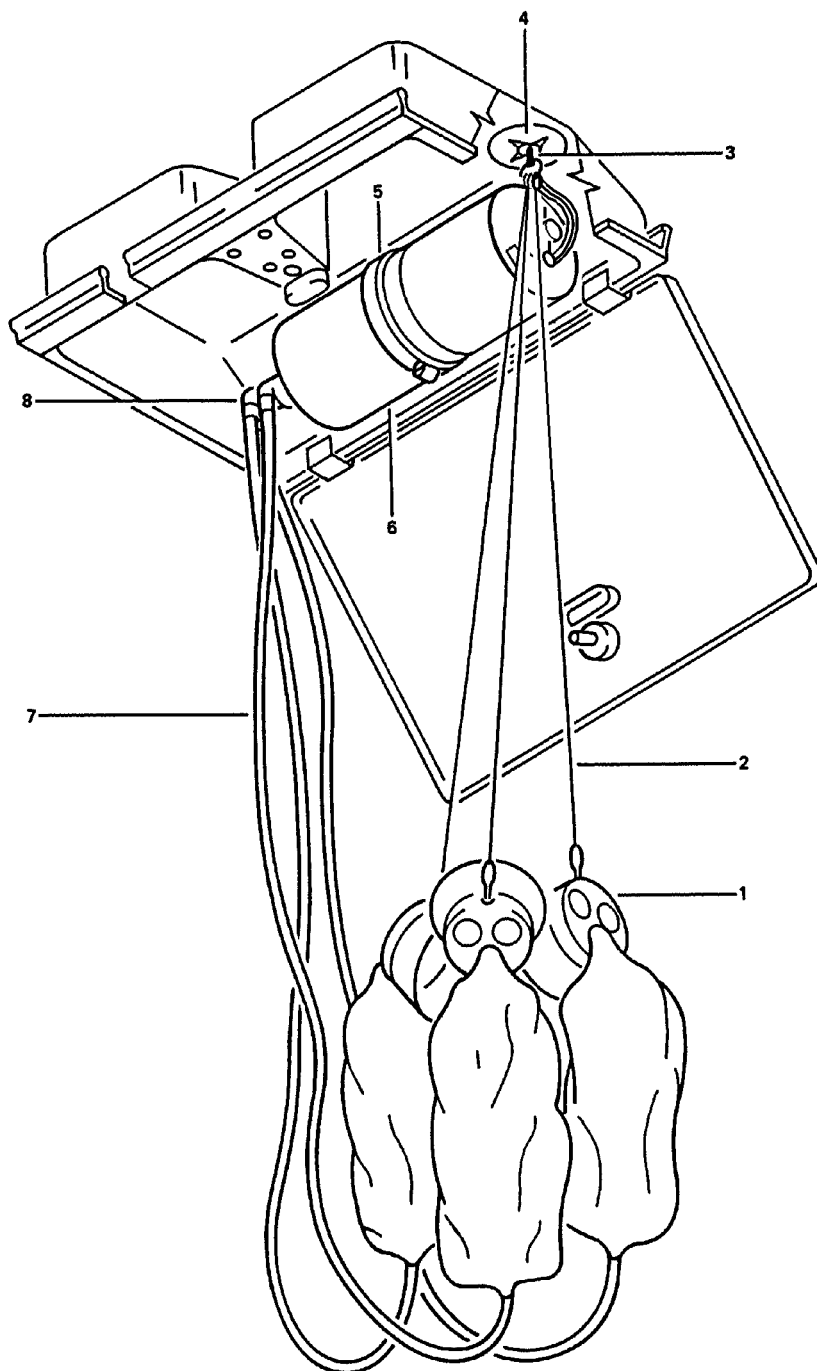
Emergency Oxygen Container
Figure 401

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NOTE: 3 MASK CONTAINER SHOWN.

Emergency Oxygen Container
Figure 402

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ALTITUDE SWITCH - REMOVAL/INSTALLATION

1. Equipment and Materials

ITEM	DESIGNATION
A.	Electrical Ground Power Unit - 3-Phase, 115/200 V, 400 Hz
B.	Vacuum Source and Altitude Indicator
C. 98A35207599000	Adapter-Hose, Altitude Switch
Referenced Procedures	
- 24-41-00, P. Block 301	AC External Power Control
- 25-13-21, P. Block 401	Upper Sidewall Panels

2. Procedure

A. Job Set-up

(1) Open, safety and tag the following circuit breaker:

PANEL	SERVICE	IDENT.	LOCATION
22VU	PASSENGER OXYGEN CTL & WARN	1WR	H24

(2) Remove upper sidewall panel in the area of FR10 at LH side of flight compartment (Ref. 25-13-21, P. Block 401).

B. Removal (Ref. Fig. 401)

(1) Disconnect electrical connector (1) from altitude switch (2).

(2) Remove screws (3), washers (4) and altitude switch (2) from bracket (5).

C. Installation (Ref. Fig. 401)

(1) Connect electrical connector (1) to altitude switch (2).

(2) Carry out test para. D.

NOTE : Hose-adapter (P/N 98A35207599000) can not be connected when the altitude switch (2) is attached to its bracket (5).

(3) Position altitude switch (2) on bracket (5) and secure with screws (3) and washers (4).

D. Test

(1) Connect electrical ground power unit and energize aircraft electrical network (Ref. 24-41-00, P. Block 301).

(2) Make sure that electronics racks ventilation is correct.

(3) Close the following circuit breaker:

PANEL	SERVICE	IDENT.	LOCATION
22VU	PASSENGER OXYGEN CTL & WARN	1WR	H24

EFFECTIVITY: ALL

R

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(4) Make certain that the following circuit breakers are open:

PANEL	SERVICE	IDENT.	LOCATION
22VU	PASSENGER OXYGEN ACTUATION	2WR	H25
22VU	PASSENGER OXYGEN ACTUATION	3WR	H26
22VU	PASSENGER OXYGEN ACTUATION	4WR	H27
22VU	PASSENGER OXYGEN ACTUATION	5WR	H28

(5) Connect vacuum source to the altitude switch 16WR using hose-adaptor (P/N 98A35207599000).

(6) On vacuum source slowly increase altitude to 13500 (+0 -100) ft.
Hold this altitude for at least 1 minute. The TMR NOT RESET light on the maintenance panel 472VU must not illuminate.

(7) Slowly increase altitude to 14000 ft.
On panel 472VU the indicator light 12WR TMR NOT RESET shall come on after 30 seconds at 14000 (+0 -500) ft.

(8) Slowly decrease altitude to zero.

(9) Press push button RESET on maintenance panel.
The TMR NOT RESET light extinguishes.

(10) Remove hose-adaptor and vacuum source from altitude switch.
Do not disconnect electrical plug.

(11) Close the circuit breakers opened in step (4).

E. Close-up

(1) Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

(2) Install upper sidewall panel (Ref. 25-13-21, P. Block 401).

(3) De-energize aircraft electrical network and disconnect electrical power unit (Ref. 24-41-00, P. Block 301).

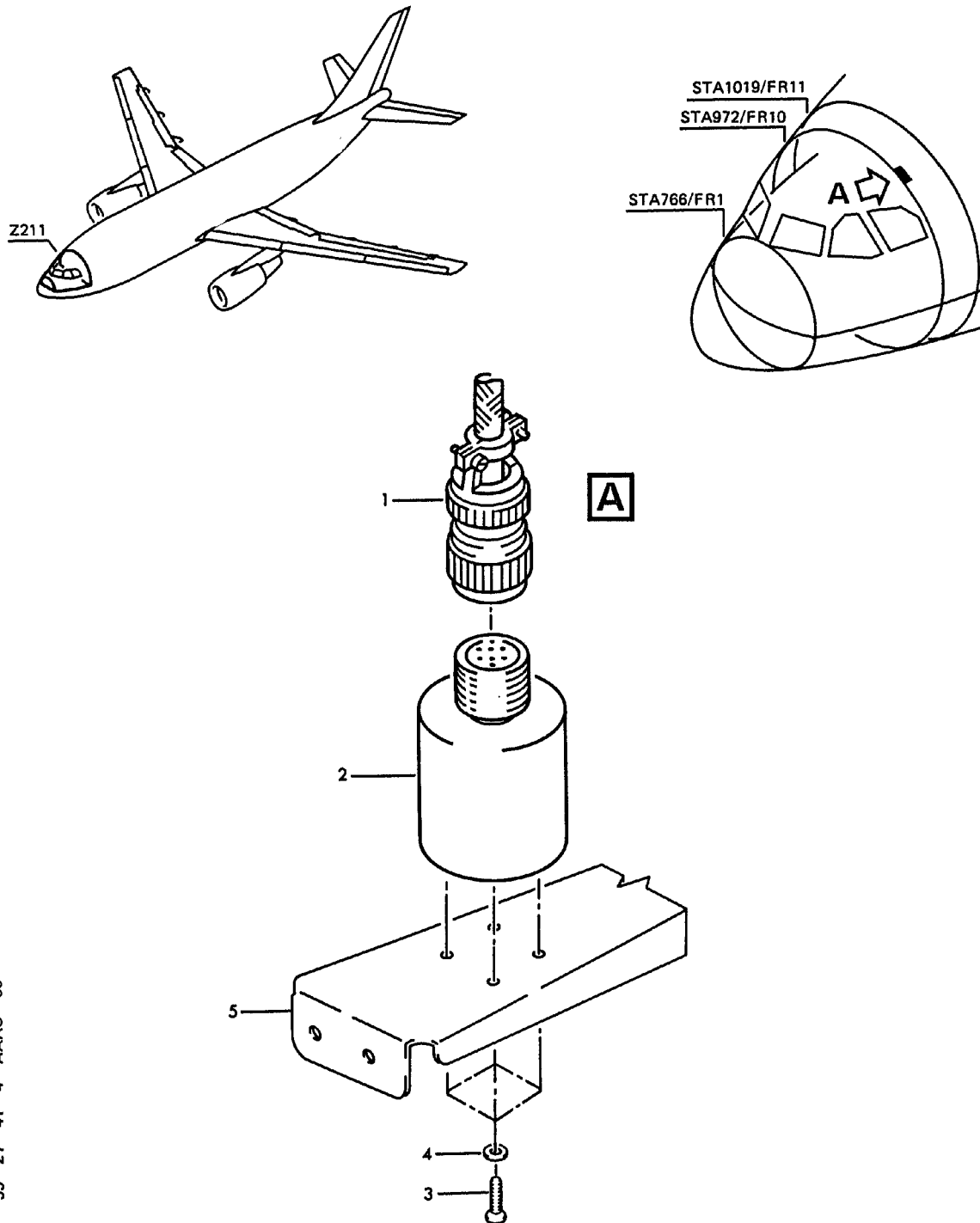
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Altitude Switch
Figure 401

EFFECTIVITY: ALL

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PORTABLE OXYGEN - DESCRIPTION AND OPERATION

1. General

Portable oxygen equipment is installed in the flight compartment and in various locations in the passenger compartment. The system comprises:

- Flight Crew Portable Oxygen
- Cabin Attendants Portable Oxygen

2. Description

A. Flight Crew Portable Oxygen

The intended use is to provide oxygen for one crew member when fighting a fire and against smoke and noxious gas, or to provide emergency oxygen for one crew member in case of failure of the fixed oxygen system.

B. Cabin Attendants Portable Oxygen

The intended use is to provide oxygen for attendants when fighting a fire and against smoke and noxious gas, or to provide first aid oxygen, where required, following an emergency descent due to loss of cabin pressurization. The system comprises a continuous-flow oxygen mask connected to each portable oxygen cylinder.

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FLIGHT CREW PORTABLE OXYGEN - DESCRIPTION AND OPERATION

R 1. General

R A. Purpose and Functions

- R The flight crew portable system ensures the protection of a flight crew member occupying a seat in the flight compartment in the following conditions:
- R - smoke or noxious gas emissions,
 - R - possibly, cabin pressure altitude loss.

R 2. Description

A. Oxygen Source

The oxygen source consists of a high pressure oxygen cylinder. This cylinder is located from the rear of the First Officer's console to the bottom of the coat stowage.

(Ref. Fig. 001)

It is maintained in its housing by friction on the flexible walls provided for that purpose.

The cylinder is equipped with a head including the following components :
(Ref. Fig. 002)

(1) High pressure stage

- (a) A direct reading pressure gauge indicating the cylinder pressure
- (b) A high pressure relief valve, with rupture of a disc in the event of excessive pressure, between 172.4 and 207 bars /2700 and 3000 psig) which would result from an abnormal rise in temperature. The oxygen released is dissipated in the environment.
- (c) A rotating type ON/OFF valve which controls the oxygen flow entering the high pressure chamber of the pressure regulation mechanism.
- (d) A charging valve directly connected to the high pressure chamber of the pressure regulation mechanism and which enables the cylinder to be filled through the ON/OFF valve with a controlled flow. The charging rate must not exceed 300 psi/min.

(2) Pressure control mechanism

A pressure control mechanism which ensures pressure regulation to a pressure between 2.4 and 5.86 bars (35 and 85 psig).

(3) Low pressure stage

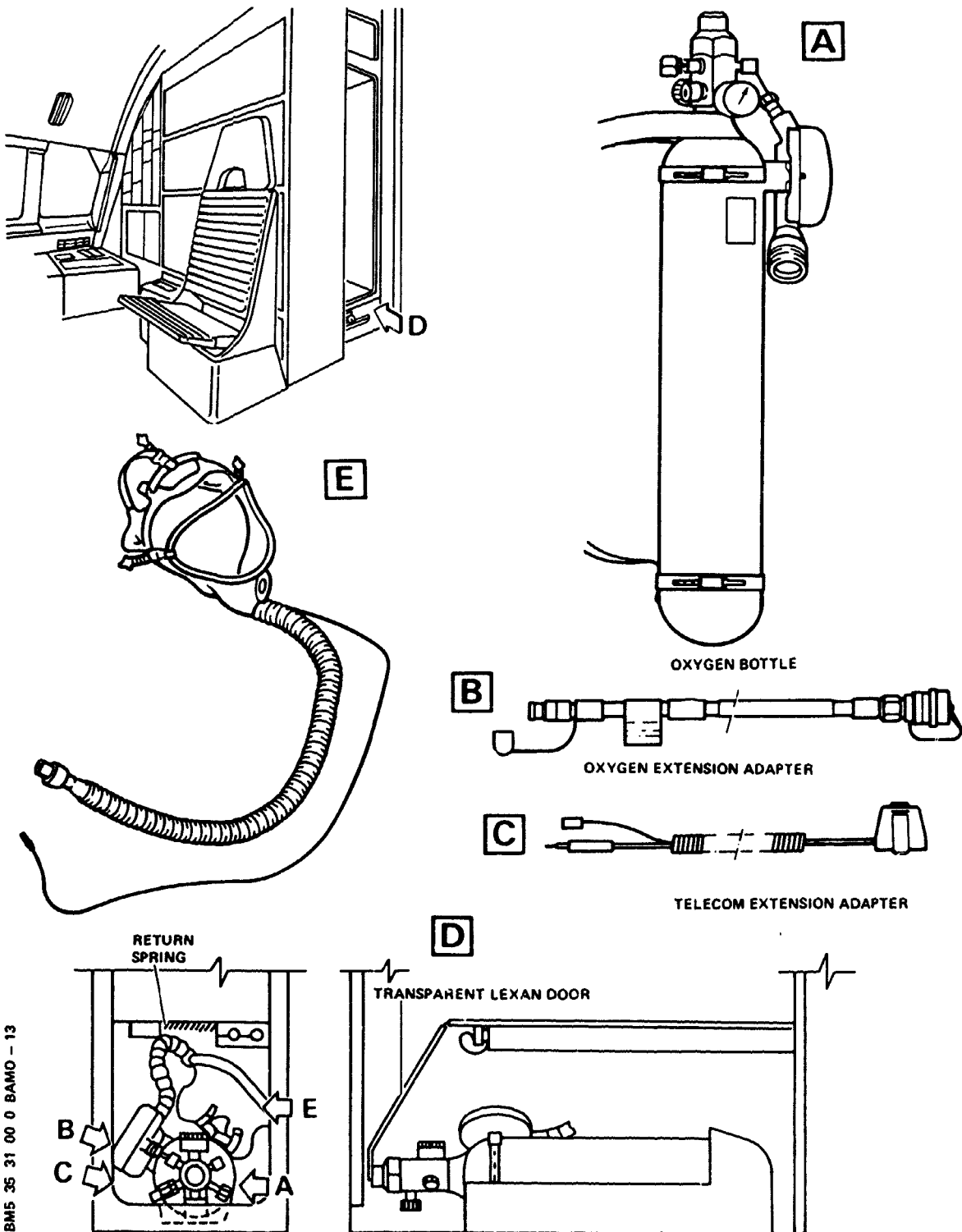
- (a) A low pressure relief valve with a check valve calibrated to limit all excessive pressure between 6.2 bars (90 psig) - beginning of opening - and 9.3 bars (135 psig) fully open.
- (b) A demand regulator enabling an oxygen flow generated by the negative

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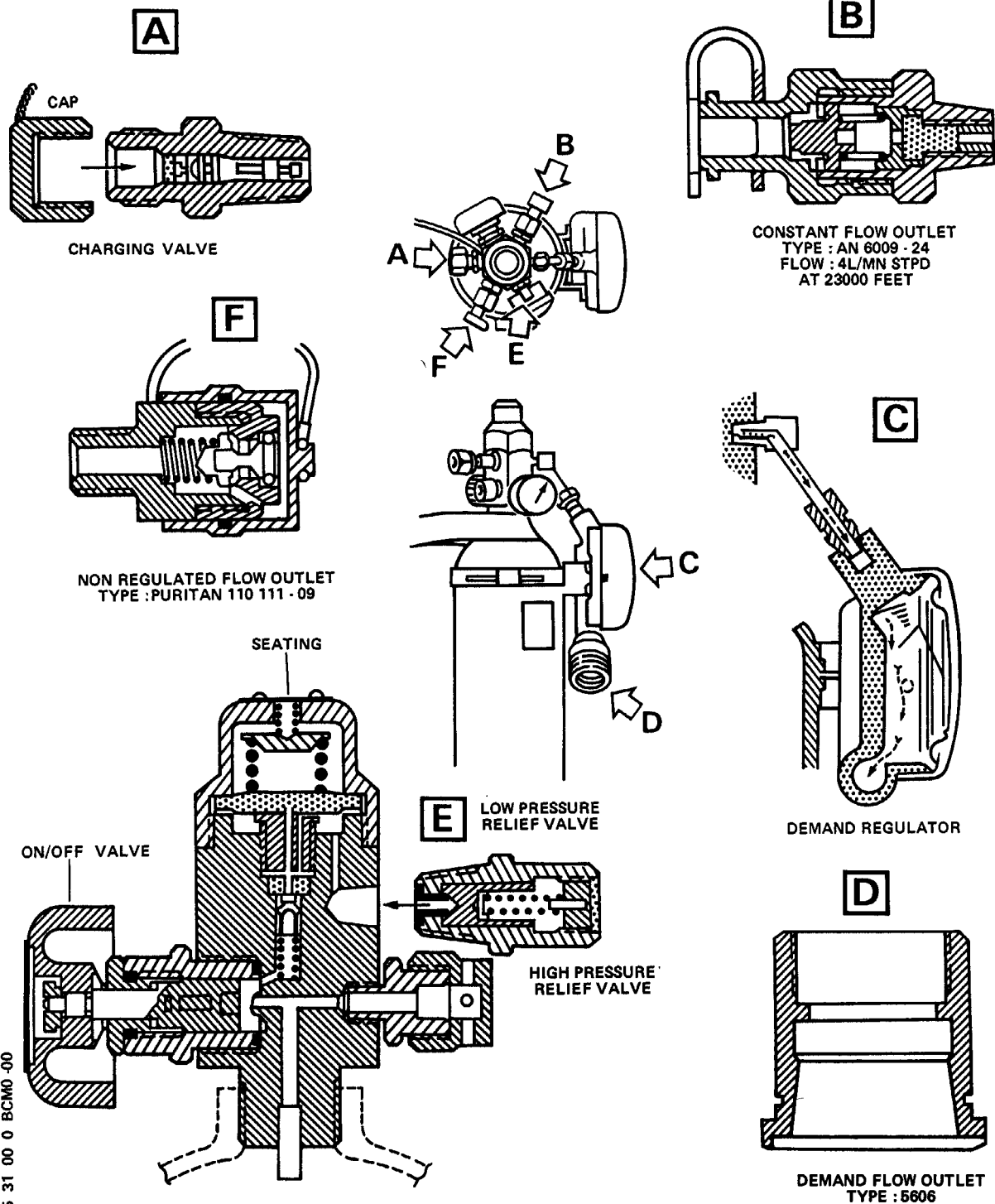
Oxygen Portable Equipment
Figure 001

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Portable Oxygen Cylinder Head
Figure 002

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pressure in the oxygen mask during the inhalation phase to be obtained from a standard supply point.

The adjustment limits are as follows :

- . for a 35 psig supply pressure, a flow of 20 liters (Normal Temperature, Pressure Dry (21°C - 1013 mb) is obtained for a 17.8 minutes H2O negative pressure.
- . for a 85 psig supply pressure, a flow of 125 liters (normal Temperature, Pressure Dry (21°C - 1013 mb) is obtained for a 50 minutes H2O negative pressure.

(c) A non regulated flow outlet to be used for a mask with built-in demand regulator

(d) A constant flow outlet, not to be used by the flight crew

B. Full Face Oxygen Mask

The mask is of the full face type : it covers the nose, the mouth and the eyes. It is equipped with an inhalation valve, an exhalation valve and a high-level carbon microphone.

The mask is normally connected to the cylinder.

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3. Utilization

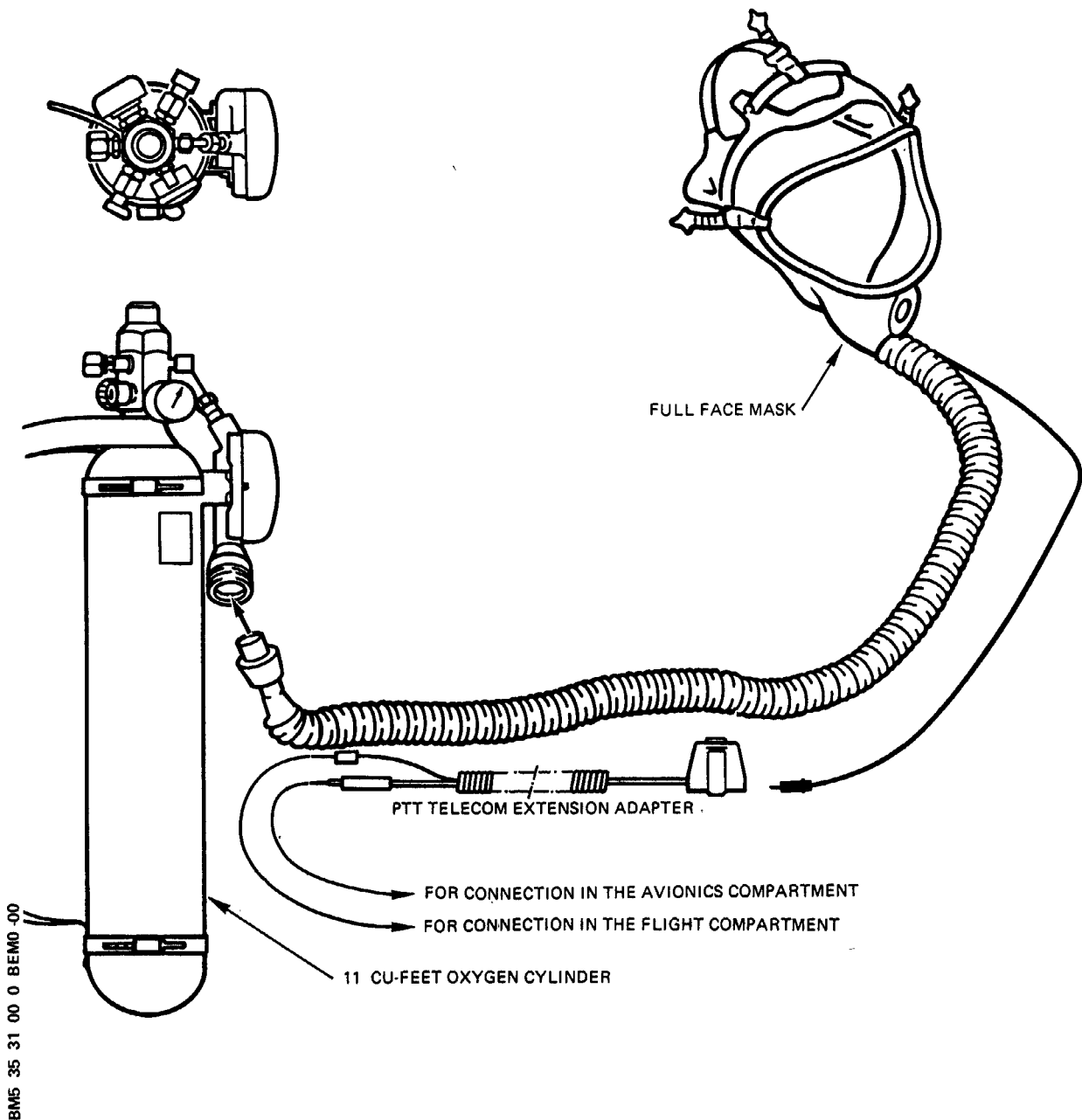
- A. Protection against smoke and gas for the flight crew member who has to move in the cabin or in the avionics compartment.
(Ref. Fig. 003)
(Ref. Fig. 004)
(1) The full face mask is connected to the cylinder regulator
The communication adaptor extension is connected to the mask cable.
This overall configuration corresponds to the overall storage configuration on the A/C.
The user of this unit can communicate with the other crew members by connecting the end of the communication adapter/extension to the various receptacles provided in the flight compartment and the avionics compartment.
In this configuration, the crew member uses a demand-type supply, 100 % pure oxygen, without safety overpressure.
- B. Protection in the Event of Loss of Cabin Pressure
(1) Of a flight crew member with his quick-donning mask failed. The flight crew member uses the portable unit as per the configuration described in paragraph A. above.
(Ref. Fig. 003)
(2) Of a pilot in the event of total failure of the flight crew fixed oxygen (Ref. Fig. 005). The pilot's quick-donning mask is disconnected from the aircraft fixed system (O2 connection only) then connected to the non-regulated flow port of the cylinder via the oxygen adapter/extension permanently stowed in the housing near the portable oxygen cylinder.
In this configuration, the crew member uses a demand-type supply with the following manual controls :
- 100 % pure oxygen at any altitude or air/oxygen dilution and 100 % pure oxygen automatically obtained above 35000 feet.
- permanent or momentary overpressure.
The unit capability enables the user to be supplied in the following conditions :
- 10 minutes of descent with 100 % oxygen
- 90 minutes of flight continuation between 10000 and 15000 feet.
- C. Protection with failed full face oxygen mask
Protection, further to smoke emission, of a flight crew member who finds the full face mask of the portable unit failed.
In this case, the flight crew member uses his own quick-donning mask, in the following configuration ;
- NORMAL - 100 % control on 100 % position
- overpressure control - permanent or momentary
In addition the flight crew member concerned will use the smoke goggles.

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Normal Utilization of Full Face Demand Mask with
Portable Cylinder
Figure 003

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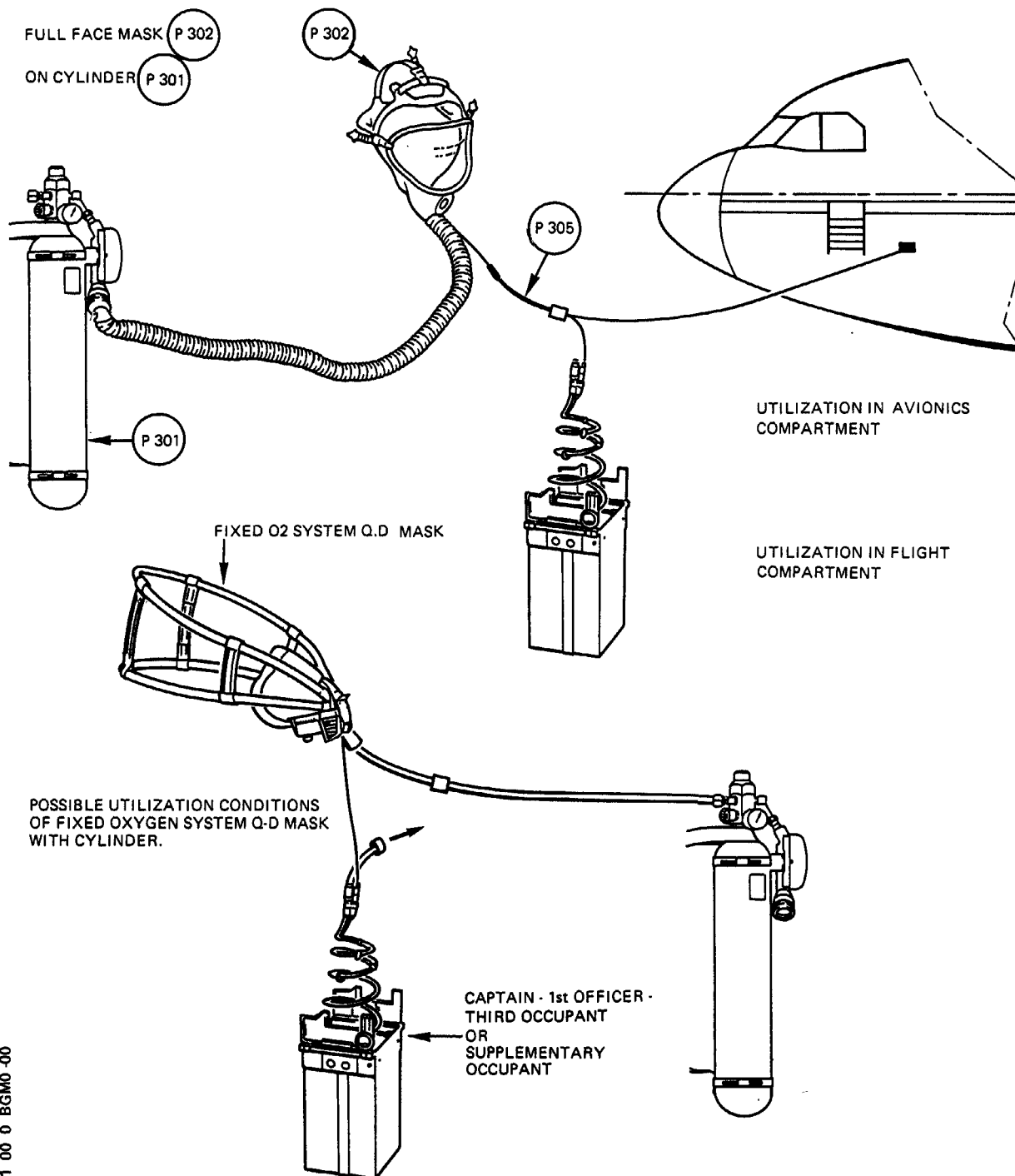
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NORMAL UTILIZATION CONDITIONS OF

FULL FACE MASK (P 302)

ON CYLINDER (P 301)



Utilization Possibilities
Figure 004

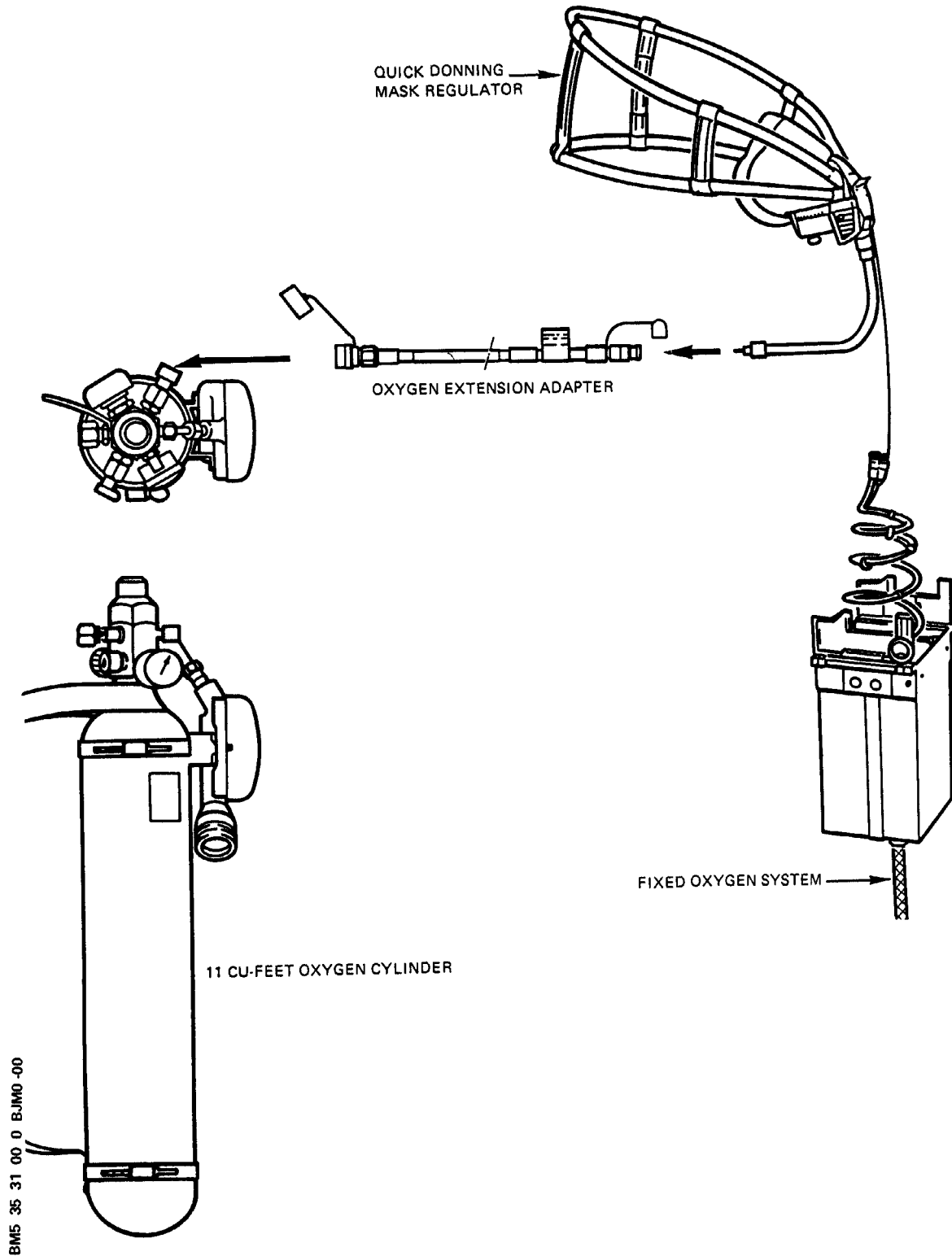
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Emergency Utilization of Quick-Donning Mask with
Portable Cylinder
Figure 005

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D. Particular Installation Conditions

- the oxygen generation compartment is installed in a zone unlikely to be damaged in the most unfavorable crash conditions
- all generation and distribution system rigid pipes are made from stainless steel, 0.71 mm thick.

They also comprise type unions with no moving components and affording longitudinal guidance. Connection between pipes and between pipes and equipment is carried out by the addition on the flare of a copper seal ensuring perfect sealing and permitting successive disassemblies without deterioration of the aircraft system. The seals are of expendable type and must be replaced after each disassembly operation. In certain zones, the lines are protected by removable split sleeves (adjacent to electrical looms) or by light-alloy metallic deflectors (in the vicinity of the flight control cables).

- The pipe supports are of the following type :
 - clamp without bonding
- All flexible hoses on the fixed lines are of high pressure type with teflon core and stainless steel metal braiding
- The flexible hoses upstream of the quick-donning mask supply valves are of the low pressure type and made from synthetic rubber covered by a nomex braiding.
- Additional smoke goggles are located in a housing adjacent to each mask stowage box in the flight compartment.

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PORTABLE OXYGEN CYLINDER - ADJUSTMENT/TEST

1. Operational Test

A. Check of the Smoke Mask Operation

Connect the smoke mask to the portable oxygen cylinder.

Open the cylinder, and perform a breathing test.

Close the cylinder.

Disconnect the mask.

R **NOTE** : Check of the smoke mask operation is applicable to both the flight
R crew and cabin attendant smoke masks.

B. Check of the Smoke Mask Microphone Operation

(1) Remove one quick-donning mask from its stowage box and disconnect the radio connector.

(2) Connect the telecom extension adapter to the portable smoke mask and to one of the full-face quick-donning masks.

(3) On audio control panel :

- place RADIO/INTER switch in INTER position, speak into microphone and check reception at boomset.

(4) Disconnect the telecom extension adapter from the portable smoke mask and from the full-face quick-donning mask.

(5) Connect the radio connector of the quick-donning mask and store mask in its stowage box.

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PORTABLE OXYGEN CYLINDER - INSPECTION/CHECK

WARNING : PERSONNEL IN CHARGE OF CARRYING OUT THE ACTIONS BELOW MUST BE AWARE OF THE RISKS INVOLVED IN HANDLING OXYGEN WHICH ENHANCES COMBUSTION IN THE PRESENCE OF FUEL AND BECOMES EXPLOSIVE IN THE PRESENCE OF HYDROCARBONS (FUELS, LUBRICANTS).

WARNING : MAKE SURE THAT YOU OBEY THE MANUFACTURER'S INSTRUCTIONS AND NATIONAL HAZARDOUS MATERIAL REGULATIONS WHEN YOU MOVE THIS EQUIPMENT OR KEEP IT IN STORAGE:

- CHEMICAL OXYGEN GENERATORS
- PROTECTIVE BREATHING EQUIPMENT
- FIXED AND PORTABLE OXYGEN CYLINDERS.

SPECIAL PRECAUTIONS ARE NECESSARY FOR THIS EQUIPMENT.

NOTE : The check procedure is applicable to both the flight crew and cabin attendant portable oxygen cylinders.

R 1. Reason for the Job

R A. Operational check and detailed inspection of portable oxygen equipment
R including attachments.

R B. Check pressure of portable oxygen cylinders.

R C. Hydrostatic test of portable oxygen cylinders and check LP relief valve.

R 2. Operational Check and Detailed Inspection of Portable Oxygen Equipment
R Including Attachments

R A. Procedure

R (1)Job Set-up

R (a)Remove portable oxygen cylinder from quick-release brackets.

R (2)Do a detailed inspection of portable oxygen equipment including
R attachments:

R (a)Inspect cylinder for damage and cleanliness.

R (b)Inspect regulator for damage and cleanliness.

R (c)Inspect pressure gage for scratches on window and legibility of the
R scale.

R (d)Inspect regulator assembly for damage and secure attachment.

R (e)Inspect charging valve and relief valve for cleanliness and secure
R attachment and ensure that cap is in place.

R (f)Inspect demand regulator and adapter for damage and secure attachment.

R (g)Inspect carrying straps for fractures and secure attachment.

R (h)Inspect quick-release brackets for secure attachment.

R (3)Close-up

R (a)Place portable oxygen cylinder on quick-release brackets.

R (b)Make sure that the working area is clean and clear of tools and
R miscellaneous items of equipment.

R 3. Check Pressure of Portable Oxygen Cylinders

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- R A. Procedure
R (1)Job Set-up
R (a)Remove portable oxygen cylinder from quick-release brackets.
R (2)Check that pressure gage registers correct pressure which is 1800 psi
R at 21°C (70°F).
R (3)Close-up
R (a)Place portable oxygen cylinder on quick-release brackets.
R (b)Make sure that the working area is clean and clear of tools and
R miscellaneous items of equipment.

R 4. Hydrostatic Test of Portable Oxygen Cylinders and Check LP Relief Valve

- R A. Procedure
R (1)Job Set-up
R (a)Remove portable oxygen cylinder from quick-release brackets.
R (2)Carry out the hydrostatic test of portable oxygen cylinder and check
R of LP relief valve in the workshop (Refer to the applicable Component
R Maintenance Manual).
R (3)Close-up
R (a)Place portable oxygen cylinder on quick-release brackets.
R (b)Make sure that the working area is clean and clear of tools and
R miscellaneous items of equipment.

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PROTECTIVE BREATHING EQUIPMENT - REMOVAL/INSTALLATION

WARNING : PERSONNEL IN CHARGE OF CARRYING OUT THE ACTIONS BELOW MUST BE AWARE OF THE RISKS INVOLVED IN HANDLING OXYGEN WHICH ENHANCES COMBUSTION IN THE PRESENCE OF FUEL AND BECOMES EXPLOSIVE IN THE PRESENCE OF HYDRO-CARBONS (FUELS, LUBRICANTS).

1. Reason for the Job

Discard and replace the protective breathing equipment in the flight compartment, if installed.

2. Equipment and Materials

ITEM	DESIGNATION
A.	Access platform 4.5 m (14 ft. 9 in.)
Referenced Procedure - 52-10-00, P. Block 1	Passenger/Crew Doors

3. Procedure

A. Job Set-up

- (1) Position the access platform at passenger/crew door.
- (2) Open the passenger/crew door (Ref. 52-10-00, P. Block 1).

B. Removal

- (1) In the flight compartment, remove the fastener.
- (2) Remove the protective breathing equipment (1).

C. Installation

- (1) Make sure that you can see the indicator.
- (2) Make sure that the tamper seal is not broken.
- (3) Put the protective breathing equipment (1) in position.
- (4) Install the fastener.

D. Close-up

- (1) Make sure that working area is clean and clear of tools and miscellaneous items of equipment.
- (2) Close the passenger/crew door (Ref. 52-10-00, P. Block 1).
- (3) Remove the access platform.
(Ref. Fig. 401)

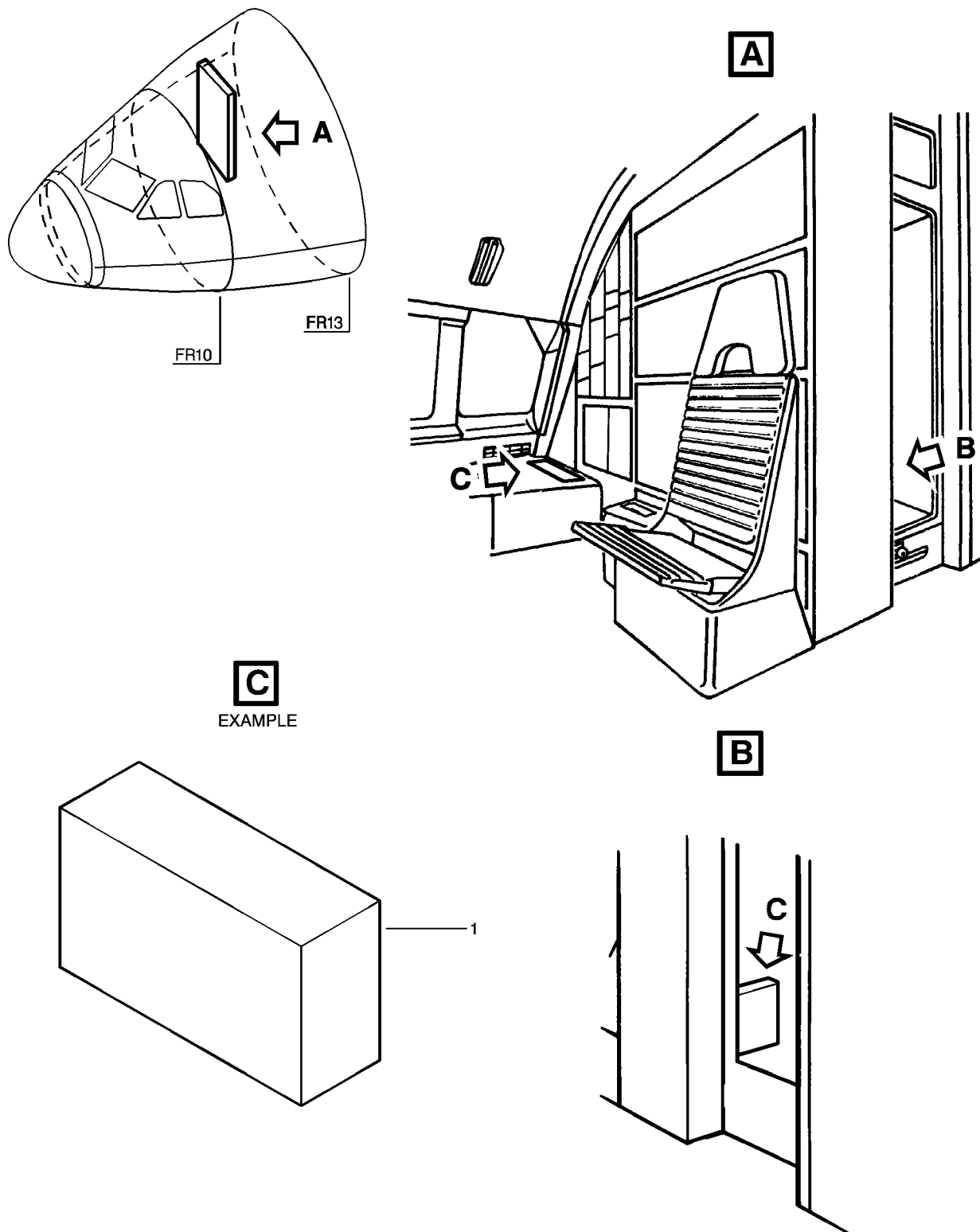
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Component Location of Protective Breathing Equipment
Figure 401

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PROTECTIVE BREATHING EQUIPMENT - INSPECTION/CHECK

WARNING : PERSONNEL IN CHARGE OF CARRYING OUT THE ACTIONS BELOW MUST BE AWARE OF THE RISKS INVOLVED IN HANDLING OXYGEN WHICH ENHANCES COMBUSTION IN THE PRESENCE OF FUEL AND BECOMES EXPLOSIVE IN THE PRESENCE OF HYDROCARBONS (FUELS, LUBRICANTS).

1. Reason for the Job

General visual inspection of tamper seal/serviceability indication of protective breathing equipment.

NOTE : For A/C equipped with protective breathing equipment (smoke hoods).

2. Equipment and Materials

ITEM	DESIGNATION
A.	Access platform 4.5 m (14 ft. 9 in.)
Referenced Procedures	
- 35-31-12, P. Block 401	Protective Breathing Equipment
- 52-10-00, P. Block 1	Passenger/Crew Doors

3. Procedure

A. Job Set-up

- (1) Position the access platform at passenger/crew door.
- (2) Open the passenger/crew door (Ref. 52-10-00, P. Block 1).

B. Visual Inspection of Protective Breathing Equipment (PBE)

(Ref. Fig. 601, 602):

- (1) Make sure that the tamper seal on container is not broken (if installed).

NOTE : The tamper seal is a wire-lock or a bonding-strip which indicates, whether the vacuum sealed bag has been removed from its stowage or not. If the tamper seal is broken or removed consult respective CMM for appropriate corrective maintenance action.

- (2) After usage of protective breathing equipment over 10 years, discard them if:

- (a) Humidity indicator shows pink (not blue).
- (b) Service/End-of-Service indicator shows red light instead of green.

- (3) Check serviceability of the PBE:

NOTE : PBE's have different serviceability indications, but they all indicate the integrity of the vacuum sealed bag.

****ON A/C EQUIPPED WITH P/N 15-40F or 15-40F-11**

(a) Air liquid:

Make sure that the good condition indicator on the top of the lid is green. If indication is red the PBE shall be replaced (Ref. 35-31-12, P. Block 401).

****ON A/C EQUIPPED WITH P/N E28180**

(b) Draeger:

Make sure that the serviceability indicator (a yellow paper strip) is

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visible and not broken, through the inspection window. If the serviceability indicator is broken the PBE must be replaced (Ref. 35-31-12, P. Block 401).

****ON A/C EQUIPPED WITH P/N 119003**

(c)B/E Aerospace:

Viewing through the clear access door will verify condition of vacuum sealed bag.

****ON A/C EQUIPPED WITH P/N 802300-14**

(d)AVOX:

Check the moisture indicator strip through the indication window. If the moisture indicator has changed color from blue to pink the PBE must be replaced (Ref. 35-31-12, P. Block 401).

C. Close-up

- (1)Make sure that working area is clean and clear of tools and miscellaneous items of equipment.
- (2)Close the passenger/crew door (Ref. 52-10-00, P. Block 1).
- (3)Remove the access platform.

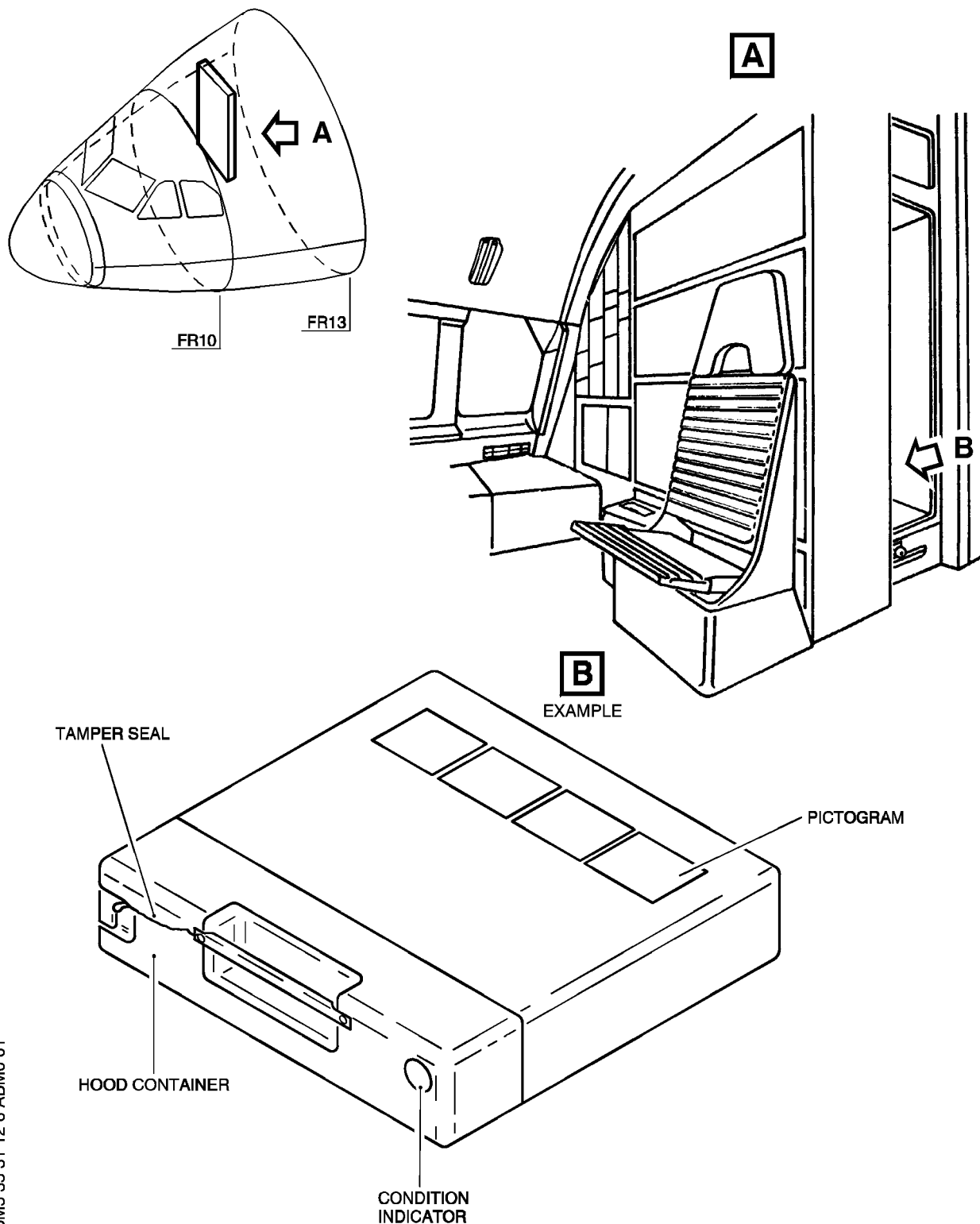
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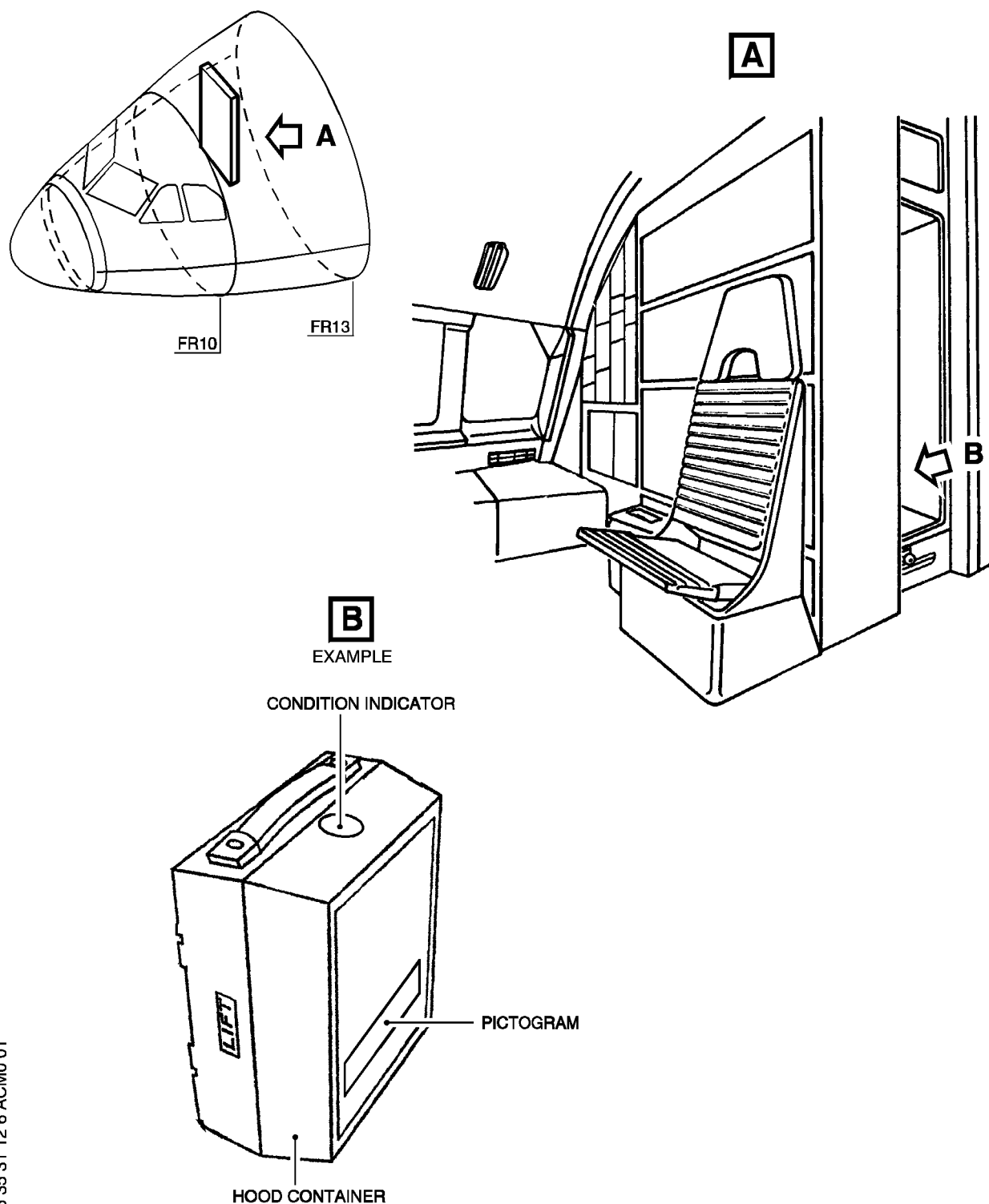
Protective Breathing Equipment With Tamper Seal
Figure 601

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Protective Breathing Equipment Without Tamper Seal
Figure 602

EFFECTIVITY: ALL

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AIRCRAFT MAINTENANCE MANUAL

FULL FACE SMOKE MASK - CLEANING/PAINTING

WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.

1. Reason for the Job

A. Cleaning during scheduled maintenance.

2. Equipment and Materials

ITEM	DESIGNATION
A. Material No. 11-003	Cleaning Agents (Ref. 20-31-00)
B. Material No. 11-005	Cleaning Agents (Ref. 20-31-00)
C. Material No. 14-002	Disinfectants (Ref. 20-31-00)
D.	Sponge or Lint-free Cloth

3. Procedure

A. Job Set-Up

(1) Remove full face smoke mask from stowage.

B. Cleaning

(1) Mask

(a) Clean mask shell and harness with soap solution (Mat. No. 11-005) and rinse with clean water.

NOTE : This operation must be carefully performed to avoid spillage on regulator and microphone assembly, if installed.

(b) Wipe with sponge or lint-free cloth.

(c) Sterilize mask with aseptic spray (Mat. No. 14-002).

(d) If required, dry mask with dry, oil-free air.

(2) Regulator

WARNING : CLEANING AGENT (MAT. NO. 11-003) IS DANGEROUS.

(a) Clean all parts, except those made from elastomer, with cleaning agent (Mat. No. 11-003).

(b) Clean all elastomer parts with soap solution (Mat. No. 11-005).

(c) Dry all parts with dry, oil-free air.

C. Close-Up

(1) Place mask back into stowage.

(2) Make certain that working area is clean and clear of tools and miscellaneous items of equipment.

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AIRCRAFT MAINTENANCE MANUAL

CABIN ATTENDANTS PORTABLE OXYGEN - DESCRIPTION AND OPERATION

1. General

R

Portable oxygen equipment is installed in the passenger compartment and is used in the following conditions:

- smoke or gas emissions
- cabin pressure loss
- first aid.

The system consists of protective breathing equipment with a hood and an oxygen supply. The protective breathing equipment is packed into a sealed bag which is stored within a container.

An additional system consists of a portable oxygen cylinder and continuous-flow mask.

2. Description

R

(Ref. Fig. 001)

R

(Ref. Fig. 002)

R

A. Hood

The hood is designed to protect the wearer's eyes and respiratory tract in an irrespirable atmosphere. This will be done by isolating the eyes and breathing functions from the environment. The loose fitting, universal sized, hood with a head harness and a neck seal encloses the entire head of the wearer and provides chemically generated oxygen. An integrated large optically clear visor provides a panoramic vision.

A lightweight life support pack attached to the hood is worn behind the neck. The complete unit is stored inside a sealed bag within a protective container.

B. Chemical Oxygen Generator

The chemical oxygen generator is designed to deliver breathing air for a minimum of 15 minutes during maximum workloads. Low pressure oxygen is produced from chemical decomposition within the generator.

The generator is installed in the support pack.

C. Container

The hood system is normally stored in a two component system. This system consists of a plastic protective bag which is installed in the storage

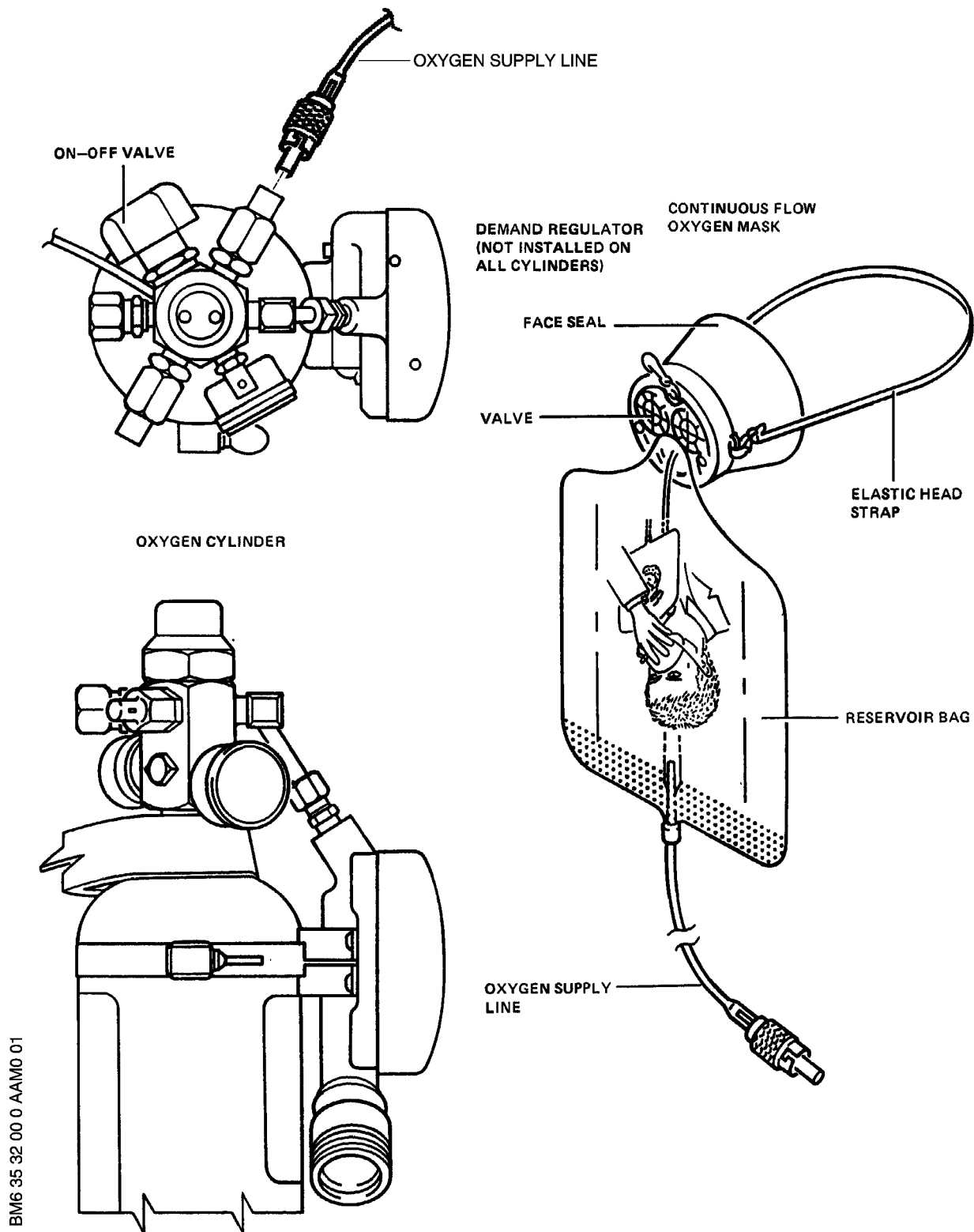
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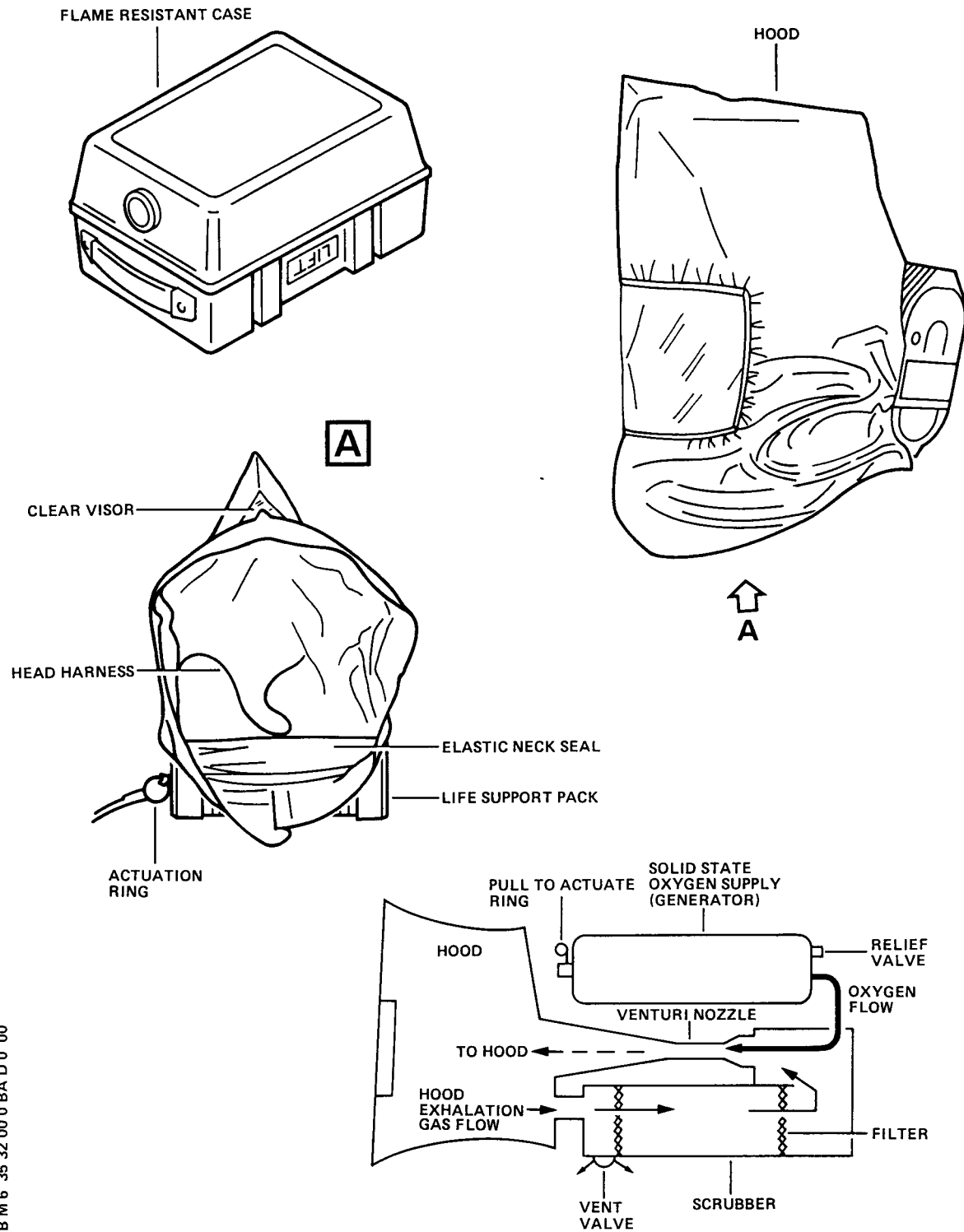
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Portable Oxygen Equipment
Figure 001

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B M 6 35 32 00 0 B A D 0 0 00

Protective Breathing Equipment
Figure 002

R EFFECTIVITY: ALL

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container. The storage container provides a barrier to prevent damage to the sealed bag. A porthole in the storage container enables a visual inspection of the humidity indicator.

D. Portable Oxygen Cylinder

The oxygen source consists of a high-pressure oxygen cylinder. The cylinder is located in the passenger compartment and held in place by quick-release brackets. The cylinder has a capacity of 11 cu.ft. (0.31 mb) charged to 1800 psig (124.13 bar) at 21° C (70° F).

The cylinder is equipped with a valve assembly including the following components:

- (1) A direct-reading pressure gage indicating the cylinder pressure.
- (2) A high-pressure relief valve, with a safety burst disc in case over-pressure occurs in the cylinder due to abnormal rise of temperature. The pressure limit is 2700 to 3000 psig (172.4 to 207 bar).
- (3) A rotating-type ON/OFF valve which controls the oxygen flow entering the high-pressure chamber of the pressure regulation mechanism.
- (4) A charging valve directly connected to the high-pressure chamber of the pressure regulating mechanism and which enables the cylinder to be filled through the ON/OFF valve with a controlled flow. The charging speed must not exceed 300 psi/min.
- (5) A pressure control mechanism which ensures pressure regulation to a pressure between 35 and 85 psig (2.4 and 5.86 bar).
- (6) A low-pressure relief valve with a check valve calibrated to limit all excessive pressure between 90 psig (6.2 bar) - beginning of opening - and 135 psig (9.3 bar) - fully open.
- (7) A demand regulator enabling an oxygen flow, generated by the negative pressure in the oxygen mask during the inhalation phase, to be obtained from a standard supply point. The adjustment limits are as follows:
 - (a) For a 35 psig supply pressure, a flow of 20 l (Normal Temperature, Pressure Dry (215° C - 1013 mb) is obtained for a water head of 17.8 mm negative pressure.
 - (b) For a 85 psig supply pressure, a flow of 125 l (Normal Temperature, pressure Dry (215° C - 1013 mb) is obtained for a water head of 50 mm negative pressure.
- (8) A constant flow outlet.

E. Continuous-Flow Oxygen Mask

The continuous-flow oxygen mask consists of a reservoir bag, a valve, a face seal, an elastic head strap and an oxygen supply line connected to the constant flow outlet of each portable oxygen cylinder. The connected oxygen mask has to be stored within a protective bag attached to the portable oxygen cylinder.

R**3. Operation****A. Protective Breathing Equipment**

In the event of fire, smoke or noxious gas emissions, a cabin attendant

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uses the protective breathing equipment. During the donning sequence, the actuation ring has to be pulled to actuate chemical oxygen generator. A venturi pumping arrangement, powered by the oxygen generator, which recirculates the breathing gas within the system loop consisting of a chemical scrubber and the hood. The hood serves as a counter lung to the user's respiratory system and surplus system gas is vented through a protected relief valve.

B. Portable Oxygen Cylinder with Continuous-Flow Mask

The continuous-flow masks are distributed by the cabin attendants for first aid oxygen supply to the passengers, if necessary.

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PORTABLE OXYGEN CYLINDER - ADJUSTMENT/TEST

WARNING : USE EXTREME CARE TO PREVENT THE OXYGEN SYSTEM OR ANY SYSTEM COMPONENTS FROM BECOMING CONTAMINATED WITH GREASE, OIL, OR ANY OTHER HYDROCARBON CONTAINING SUBSTANCE. ENSURE THAT THE INTERMIXING OF TOOLS OR EQUIPMENT THAT MAY HAVE BEEN USED ON ANOTHER TASK OR AIRCRAFT IS NOT CONTAMINATED WITH GREASE, OIL OR ANY OTHER HYDROCARBON CONTAINING SUBSTANCE. AVOID THE SUDDEN RELEASE OF OXYGEN UNDER PRESSURE. ANY OF THE ABOVE CONDITIONS MAY CAUSE AN EXPLOSION OR FIRE. CAP ALL INLET AND OUTLET CONNECTIONS AS THEY ARE DISASSEMBLED TO PREVENT DIRT, OIL, OR GREASE FROM ENTERING THE SYSTEM.

1. Operational Check

A. Reason for the Job

Operational check of the oxygen cylinder and visual inspection of the mask.

B. Procedure

(1)Job Set-Up

(a)Get access to the oxygen cylinder.

(b)Remove the oxygen cylinder from the quick-release brackets.

R (c)Remove the oxygen mask from the protective bag attached to the
R portable oxygen cylinder.
R

(2)Operational Check

(a)Open the valve of the oxygen cylinder and perform a breathing test.

(b)Close the valve of the oxygen cylinder.

(3)Close-Up

R (a)Make sure that the oxygen mask assemblies are connected to the
R constant flow outlets of the portable oxygen cylinder.
R (b)Inspect the oxygen mask for proper condition.

R (c)Put the oxygen mask back into the protective bag attached to the
R portable oxygen cylinder.
R (d)Inspect the quick-release brackets for secure attachment and proper
condition.

R (e)Place the oxygen cylinder on the quick-release brackets and close
the clamp.
R (f)Make sure that the working area is clean and clear of tools and
miscellaneous items of equipment.

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PROTECTIVE BREATHING EQUIPMENT - INSPECTION/CHECK

1. Reason for the Job

Detailed inspection of tamper seal/serviceability indication of protective breathing equipment.

2. Procedure

A. Job Set-Up

(1) Get access to the protective breathing equipment.

B. Detailed Visual Inspection of the Protective Breathing Equipment

(1) Make sure that the tamper seal is not broken.

(2) Check the vacuum sealed bag through the transparent door.

Loss of vacuum causes a slight inflation of the bag.

(3) If one of these points is not correct, you must replace the equipment.

R (4) After usage of protective breathing equipment over 10 years, discard
R them if:

R (a) Humidity indicator shows pink (not blue).

R (b) Service/End-of-Service indicator shows red light instead of green.

C. Close-Up

(1) Make sure that the working area is clean and clear of tools and miscellaneous items of equipment.

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Printed in France



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PORTABLE OXYGEN CYLINDER - INSPECTION/CHECK

WARNING : PERSONNEL IN CHARGE OF CARRYING OUT THE ACTIONS BELOW MUST BE AWARE OF THE RISKS INVOLVED IN HANDLING OXYGEN WHICH ENHANCES COMBUSTION IN THE PRESENCE OF FUEL AND BECOMES EXPLOSIVE IN THE PRESENCE OF HYDROCARBONS (FUELS, LUBRICANTS).

WARNING : MAKE SURE THAT YOU OBEY THE MANUFACTURER'S INSTRUCTIONS AND NATIONAL HAZARDOUS MATERIAL REGULATIONS WHEN YOU MOVE OR KEEP THIS EQUIPMENT IN STORAGE:

- CHEMICAL OXYGEN GENERATORS
- PROTECTIVE BREATHING EQUIPMENT
- FIXED AND PORTABLE OXYGEN CYLINDERS.

SPECIAL PRECAUTIONS ARE NECESSARY FOR THIS EQUIPMENT.

R 1. Reason for the Job

- R A. Operational check and detailed inspection of portable oxygen equipment
R including attachments.
- R B. Check pressure of portable oxygen cylinders.
- R C. Hydrostatic test of portable oxygen cylinders and check LP relief valve.

R 2. Operational Check and Detailed Inspection of Portable Oxygen Equipment
R Including Attachments

- R A. Procedure
- R (1)Job Set-up
- R (a)Remove portable oxygen cylinder from quick-release brackets.
- R (2)Do a detailed inspection of portable oxygen equipment including
R attachments:
- R (a)Inspect cylinder for damage and cleanliness.
- R (b)Inspect regulator for damage and cleanliness.
- R (c)Inspect pressure gage for scratches on window and legibility of the
R scale.
- R (d)Inspect regulator assembly for damage and secure attachment.
- R (e)Inspect charging valve and relief valve for cleanliness and secure
R attachment and ensure that cap is in place.
- R (f)Inspect demand regulator and adapter for damage and secure attachment.
- R (g)Inspect carrying straps for fractures and secure attachment.
- R (h)Inspect quick-release brackets for secure attachment.
- R (3)Close-up
- R (a)Place portable oxygen cylinder on quick-release brackets.
- R (b)Make sure that the working area is clean and clear of tools and
R miscellaneous items of equipment.

R 3. Check Pressure of Portable Oxygen Cylinders

- R A. Procedure
- R (1)Job Set-up

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- R (a) Remove portable oxygen cylinder from quick-release brackets.
- R (2) Check that pressure gage registers correct pressure which is 1800 psi
- R at 21°C (70°F).
- R (3) Close-up
- R (a) Place portable oxygen cylinder on quick-release brackets.
- R (b) Make sure that the working area is clean and clear of tools and
- R miscellaneous items of equipment.

R 4. Hydrostatic Test of Portable Oxygen Cylinders and Check LP Relief Valve

- R A. Procedure
- R (1) Job Set-up
- R (a) Remove portable oxygen cylinder from quick-release brackets.
- R (2) Carry out the hydrostatic test of portable oxygen cylinder and check
- R of LP relief valve in the workshop (Refer to the applicable Component
- R Maintenance Manual).
- R (3) Close-up
- R (a) Place portable oxygen cylinder on quick-release brackets.
- R (b) Make sure that the working area is clean and clear of tools and
- R miscellaneous items of equipment.

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