

CHAPTER

35

OXYGEN



737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL

CHAPTER 35
OXYGEN

Subject/Page	Date	COC	Subject/Page	Date	COC	Subject/Page	Date	COC
EFFECTIVE PAGES			35-00-00 (cont)			35-12-00 (cont)		
1 thru 3	Jun 15/2009		R 903	Jun 15/2009		609	Feb 15/2009	
4	BLANK		904	Feb 15/2008		610	Oct 15/2008	
35-CONTENTS			905	Feb 15/2008		611	Feb 15/2009	
1	Feb 15/2008		906	Feb 15/2008		612	Feb 15/2009	
2	Feb 15/2008		907	Feb 15/2008		613	Oct 10/2005	
O 3	Jun 15/2009		908	BLANK		614	Oct 10/2005	
4	Feb 15/2009		35-12-00			615	Oct 10/2005	
5	Feb 15/2009		201	Feb 15/2008		616	Feb 15/2008	
6	Feb 15/2009		202	Oct 10/2003		617	Feb 15/2008	
7	Feb 15/2009		203	Oct 10/2003		618	Feb 15/2009	
8	Feb 15/2009		204	Oct 10/2003		619	Feb 15/2009	
35-00-00			205	Oct 10/2003		620	Feb 15/2009	
201	Oct 10/2005		R 206	Jun 15/2009		621	Feb 15/2009	
202	Oct 10/2004		207	Jun 15/2008		622	Feb 15/2009	
203	Oct 10/2004		208	Jun 15/2008		35-12-11		
204	Feb 10/2007		35-12-00			401	Feb 10/2007	
205	Feb 10/2007		501	Feb 15/2009		402	Feb 10/2007	
206	Feb 10/2007		502	Feb 10/2007		403	Oct 10/2003	
207	Feb 10/2007		503	Oct 10/2003		404	Oct 10/2003	
208	Jun 15/2008		504	Oct 10/2003		405	Oct 10/2003	
209	Jun 10/2005		R 505	Jun 15/2009		R 406	Jun 15/2009	
210	Jun 10/2005		506	Feb 15/2008		R 407	Jun 15/2009	
211	Feb 10/2007		R 507	Jun 15/2009		408	Feb 15/2009	
212	Feb 10/2007		508	Feb 15/2009		409	Oct 10/2005	
213	Oct 10/2004		509	Feb 15/2009		410	Feb 15/2009	
214	Oct 10/2005		510	Feb 15/2009		411	Oct 15/2008	
215	Jun 10/2006		R 511	Jun 15/2009		412	Oct 15/2008	
216	Oct 10/2004		O 512	Jun 15/2009		413	Oct 15/2008	
35-00-00			D 513	Jun 15/2009		414	BLANK	
301	Feb 15/2008		D 514	BLANK		35-12-21		
302	Feb 15/2008		35-12-00			401	Feb 10/2007	
35-00-00			R 601	Jun 15/2009		402	Feb 10/2007	
701	Jun 10/2005		R 602	Jun 15/2009		403	Oct 10/2003	
702	Jun 10/2005		603	Jun 15/2008		404	Oct 10/2003	
703	Jun 10/2005		604	Feb 15/2009		405	Feb 15/2009	
704	BLANK		605	Feb 15/2009		406	Oct 15/2008	
35-00-00			606	Feb 15/2009		35-12-22		
R 901	Jun 15/2009		607	Feb 10/2007		401	Feb 10/2007	
R 902	Jun 15/2009		608	Feb 15/2009		402	Jun 10/2006	

A = Added, R = Revised, D = Deleted, O = Overflow, C = Customer Originated Change

35-EFFECTIVE PAGES



737-600/700/800/900 AIRCRAFT MAINTENANCE MANUAL

CHAPTER 35 OXYGEN

Subject/Page	Date	COC	Subject/Page	Date	COC	Subject/Page	Date	COC
35-12-22 (cont)			35-22-00 (cont)			35-22-11 Config 1 (cont)		
403	Feb 10/2007		506	Feb 15/2009		R 415	Jun 15/2009	
404	BLANK		507	Feb 15/2009		416	Feb 15/2009	
35-12-51			508	Feb 15/2009		35-22-21 Config 1		
401	Oct 10/2003		509	Feb 15/2009		401	Feb 15/2008	
402	Feb 10/2005		510	Feb 15/2009		402	Feb 15/2008	
403	Jun 15/2008		511	Feb 15/2009		403	Oct 10/2003	
404	BLANK		512	Feb 15/2009		404	Feb 15/2008	
35-12-85			513	Feb 15/2009		405	Feb 15/2009	
201	Feb 15/2008		514	Feb 15/2009		406	Oct 15/2008	
202	Feb 15/2008		515	Feb 15/2009		407	Oct 15/2008	
203	Feb 15/2009		516	Feb 15/2009		408	Oct 10/2003	
204	Feb 15/2009		35-22-11 Config 1			R 409	Jun 15/2009	
205	Oct 15/2008		201	Feb 15/2009		410	Oct 15/2008	
206	Feb 15/2008		202	Feb 15/2009		411	Oct 15/2008	
207	Feb 15/2008		203	Feb 15/2009		412	Oct 10/2003	
208	Feb 15/2008		204	Feb 15/2009		R 413	Jun 15/2009	
35-12-85			205	Feb 15/2009		O 414	Jun 15/2009	
401	Feb 15/2009		206	Feb 15/2009		35-22-31 Config 1		
402	Feb 15/2009		207	Feb 15/2009		201	Feb 15/2009	
403	Feb 15/2009		208	Feb 15/2009		202	Oct 10/2004	
404	Oct 15/2008		209	Feb 15/2009		203	Oct 10/2004	
405	Oct 10/2005		R 210	Jun 15/2009		204	Oct 10/2004	
406	Feb 15/2009		211	Feb 15/2009		205	Oct 10/2003	
407	Jun 15/2008		212	BLANK		206	Oct 10/2003	
408	Feb 15/2009		35-22-11 Config 1			R 207	Jun 15/2009	
409	Feb 15/2009		401	Feb 15/2009		208	Jun 10/2004	
410	Feb 15/2008		402	Feb 15/2009		209	Jun 10/2004	
411	Feb 15/2009		403	Oct 10/2003		210	Feb 15/2008	
412	Oct 15/2008		404	Oct 10/2003		211	Feb 15/2008	
413	Feb 15/2008		405	Feb 15/2009		212	Feb 15/2008	
R 414	Jun 15/2009		406	Feb 15/2009		213	Feb 15/2008	
415	Feb 15/2009		407	Feb 15/2009		214	Feb 15/2008	
416	Feb 15/2009		408	Feb 15/2009		215	Feb 15/2008	
35-22-00			409	Oct 10/2003		216	Feb 15/2008	
501	Feb 15/2009		R 410	Jun 15/2009		217	Feb 15/2008	
R 502	Jun 15/2009		O 411	Jun 15/2009		218	Feb 15/2008	
503	Feb 15/2009		O 412	Jun 15/2009		219	Feb 15/2008	
504	Feb 15/2009		O 413	Jun 15/2009		220	Feb 15/2008	
505	Feb 15/2009		414	Feb 15/2009		221	Feb 15/2008	

A = Added, R = Revised, D = Deleted, O = Overflow, C = Customer Originated Change

35-EFFECTIVE PAGES

Page 2
Jun 15/2009

D633A101-HAP



737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL

CHAPTER 35
OXYGEN

Subject/Page	Date	COC	Subject/Page	Date	COC	Subject/Page	Date	COC
35-22-31 Config 1 (cont)			35-31-01					
222	Feb 15/2009		401	Feb 15/2009				
223	Feb 15/2009		402	Feb 15/2009				
224	Feb 15/2009		403	Feb 15/2009				
35-22-31 Config 1			404	BLANK				
401	Oct 10/2003		35-31-02					
402	Jun 10/2005		401	Feb 15/2009				
403	Oct 10/2003		402	Feb 15/2009				
404	Oct 10/2003		403	Feb 15/2009				
405	Feb 15/2009		404	Feb 15/2009				
406	Feb 15/2009		405	Feb 15/2009				
407	Oct 15/2008		406	Feb 15/2009				
408	Oct 15/2008							
409	Oct 10/2003							
410	Oct 10/2003							
411	Oct 10/2003							
R 412	Jun 15/2009							
O 413	Jun 15/2009							
414	Oct 15/2008							
35-22-31 Config 1								
701	Jun 15/2008							
702	Jun 15/2008							
35-22-41								
401	Feb 15/2008							
402	Feb 15/2008							
R 403	Jun 15/2009							
404	Jun 15/2008							
405	Feb 15/2008							
406	BLANK							
35-31-00								
601	Feb 15/2009							
602	Feb 15/2009							
603	Oct 10/2003							
604	Oct 10/2003							
605	Feb 10/2006							
606	BLANK							
35-31-00								
701	Jun 15/2008							
702	Jun 15/2008							

A = Added, R = Revised, D = Deleted, O = Overflow, C = Customer Originated Change

35-EFFECTIVE PAGES

Page 3
Jun 15/2009

D633A101-HAP



737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL

CHAPTER 35
OXYGEN

<u>Subject</u>	<u>Chapter Section Subject</u>	<u>Conf</u>	<u>Page</u>	<u>Effect</u>
<u>OXYGEN - MAINTENANCE PRACTICES</u>	35-00-00		201	HAP ALL
Oxygen System General Maintenance Practices TASK 35-00-00-910-801			201	HAP ALL
Safety Precautions TASK 35-00-00-910-802			201	HAP ALL
Maintenance Practices TASK 35-00-00-910-803			204	HAP ALL
Leak Detection TASK 35-00-00-790-801			206	HAP ALL
Installation of Caps on Open Oxygen Lines TASK 35-00-00-420-801			209	HAP ALL
Oxygen Tubing Removal and Installation TASK 35-00-00-910-804			210	HAP ALL
<u>OXYGEN - SERVICING</u>	35-00-00		301	HAP ALL
Servicing of the Crew Oxygen System TASK 35-00-00-600-801			301	HAP ALL
Servicing of the Passenger Oxygen System TASK 35-00-00-600-802			301	HAP ALL
Portable Oxygen System Servicing TASK 35-00-00-600-803			302	HAP ALL
<u>OXYGEN - CLEANING/PAINTING</u>	35-00-00		701	HAP ALL
Clean the Oxygen System Components TASK 35-00-00-100-801			701	HAP ALL
<u>OXYGEN - DDG MAINTENANCE PROCEDURES</u>	35-00-00		901	HAP ALL
MMEL 35-2 (DDPG) Preparation - Passenger Service Units (PSUs) Inoperative TASK 35-00-00-040-801			901	HAP ALL

35-CONTENTS



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

CHAPTER 35

OXYGEN

Chapter

Section

Subject

Subject

Conf

Page

Effect

M MEL 35-2 (DDPG) Restoration - Passenger Service Units (PSUs) Inoperative TASK 35-00-00-440-801			903	HAP ALL
M MEL 35-3 (DDPG) Preparation - Flight Deck Oxygen Pressure Indicator Inoperative TASK 35-00-00-440-802			904	HAP ALL
M MEL 35-3 (DDPG) Restoration - Flight Deck Oxygen Pressure Indicator Inoperative TASK 35-00-00-440-803			904	HAP ALL
M MEL 35-4 (DDPG) Preparation - Portable Oxygen Dispensing Units Inoperative TASK 35-00-00-440-804			905	HAP ALL
M MEL 35-4 (DDPG) Restoration - Portable Oxygen Dispensing Units Inoperative TASK 35-00-00-440-805			905	HAP ALL
M MEL 35-5 (DDPG) Preparation - Passenger Oxygen System Inoperative TASK 35-00-00-440-806			906	HAP ALL
M MEL 35-5 (DDPG) Restoration - Passenger Oxygen System Inoperative TASK 35-00-00-440-807			906	HAP ALL
<u>CREW OXYGEN SYSTEM - MAINTENANCE</u> <u>PRACTICES</u>	35-12-00		201	HAP ALL
Bleed the Crew Oxygen System Prior to System Maintenance or Repair TASK 35-12-00-800-801			201	HAP ALL
Leak Test the Crew Oxygen System After System Maintenance or Repair TASK 35-12-00-800-802			206	HAP ALL

35-CONTENTS



737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL

CHAPTER 35
OXYGEN

<u>Subject</u>	<u>Chapter Section Subject</u>	<u>Conf</u>	<u>Page</u>	<u>Effect</u>
<u>CREW OXYGEN SYSTEM - ADJUSTMENT/ TEST</u>	35-12-00		501	HAP ALL
Crew Oxygen Stowage Box Test (Mask Stowed in Stowage Box) TASK 35-12-00-700-801			501	HAP ALL
Crew Oxygen Mask-Regulator Test TASK 35-12-00-700-802			510	HAP ALL
Crew Oxygen Pressure Indication Operational Test TASK 35-12-00-710-801			511	HAP ALL
<u>CREW OXYGEN SYSTEM - INSPECTION/ CHECK</u>	35-12-00		601	HAP ALL
Crew Oxygen Operational Leak Check TASK 35-12-00-800-803			601	HAP ALL
Crew Oxygen System Pressure Decay Leak Check TASK 35-12-00-710-802			606	HAP ALL
Crew Oxygen Cylinder Correct Installation and Condition Check TASK 35-12-00-211-801			621	HAP ALL
<u>PRESSURE REDUCING REGULATOR - REMOVAL/INSTALLATION</u>	35-12-11		401	HAP ALL
Regulator/Transducer Assembly Removal TASK 35-12-11-000-801			401	HAP ALL
Regulator/Transducer Assembly Installation TASK 35-12-11-400-801			406	HAP ALL
Regulator/Transducer Assembly Component Removal TASK 35-12-11-000-802			407	HAP ALL
Regulator/Transducer Assembly Component Installation TASK 35-12-11-400-802			410	HAP ALL

35-CONTENTS



737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL

CHAPTER 35
OXYGEN

<u>Subject</u>	<u>Chapter Section Subject</u>	<u>Conf</u>	<u>Page</u>	<u>Effect</u>
<u>PRESSURE TRANSDUCER - REMOVAL/ INSTALLATION</u>	35-12-21		401	HAP ALL
Pressure Transducer Removal TASK 35-12-21-000-801			401	HAP ALL
Pressure Transducer Installation TASK 35-12-21-400-801			405	HAP ALL
<u>CREW OXYGEN PRESSURE INDICATOR - REMOVAL/INSTALLATION</u>	35-12-22		401	HAP ALL
Crew Oxygen Pressure Indicator Removal TASK 35-12-22-020-801			401	HAP ALL
Crew Oxygen Pressure Indicator Installation TASK 35-12-22-400-801			403	HAP ALL
<u>DISCHARGE INDICATOR DISC - REMOVAL/ INSTALLATION</u>	35-12-51		401	HAP ALL
Discharge Indicator Disk Removal TASK 35-12-51-000-801			401	HAP ALL
Discharge Indicator Disk Installation TASK 35-12-51-400-801			403	HAP ALL
<u>CREW OXYGEN MASK/STOWAGE BOX - MAINTENANCE PRACTICES</u>	35-12-85		201	HAP ALL
Crew Oxygen Mask Stowage TASK 35-12-85-910-801			201	HAP ALL
<u>CREW OXYGEN MASK/STOWAGE BOX - REMOVAL/INSTALLATION</u>	35-12-85		401	HAP ALL
Oxygen Mask Stowage Box Removal TASK 35-12-85-000-801			401	HAP ALL
Oxygen Mask Stowage Box Installation TASK 35-12-85-400-801			406	HAP ALL
Oxygen Mask/Regulator Removal TASK 35-12-85-000-802			408	HAP ALL

35-CONTENTS



737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL

CHAPTER 35
OXYGEN

<u>Subject</u>	<u>Chapter Section Subject</u>	<u>Conf</u>	<u>Page</u>	<u>Effect</u>
Oxygen Mask/Regulator Installation TASK 35-12-85-400-802			414	HAP ALL
<u>PASSENGER OXYGEN SYSTEM - ADJUSTMENT/TEST</u>	35-22-00		501	HAP ALL
Passenger Oxygen System - Functional Test TASK 35-22-00-700-801			501	HAP ALL
Visual Inspection of the Heat-Sensitive Band On Oxygen Generator TASK 35-22-00-210-801			515	HAP ALL
<u>OXYGEN GENERATOR - MAINTENANCE PRACTICES</u>	35-22-11	1	201	HAP ALL
Oxygen Generator Deactivation TASK 35-22-11-000-811-001		1	201	HAP ALL
Oxygen Generator Activation TASK 35-22-11-400-811-001		1	208	HAP ALL
<u>OXYGEN GENERATOR - REMOVAL/ INSTALLATION</u>	35-22-11	1	401	HAP ALL
PSU Oxygen Generator Removal TASK 35-22-11-000-804-001		1	401	HAP ALL
PSU Oxygen Generator Installation TASK 35-22-11-400-804-001		1	405	HAP ALL
ASU Oxygen Generator Removal TASK 35-22-11-000-805-001		1	407	HAP ALL
ASU Oxygen Generator Installation TASK 35-22-11-400-805-001		1	410	HAP ALL
LSU Oxygen Generator Removal TASK 35-22-11-000-806-001		1	411	HAP ALL
LSU Oxygen Generator Installation TASK 35-22-11-400-806-001		1	415	HAP ALL

35-CONTENTS



737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL

CHAPTER 35
OXYGEN

<u>Subject</u>	<u>Chapter Section Subject</u>	<u>Conf</u>	<u>Page</u>	<u>Effect</u>
<u>OXYGEN MASK DOOR LATCH ACTUATOR - REMOVAL/INSTALLATION</u>	35-22-21	1	401	HAP ALL
PSU Door Latch Actuator Removal TASK 35-22-21-000-801-001		1	401	HAP ALL
PSU Door Latch Actuator Installation TASK 35-22-21-400-801-001		1	405	HAP ALL
ASU Door Latch Actuator Removal TASK 35-22-21-000-802-001		1	406	HAP ALL
ASU Door Latch Actuator Installation TASK 35-22-21-400-802-001		1	409	HAP ALL
LSU Door Latch Actuator Removal TASK 35-22-21-000-803-001		1	410	HAP ALL
LSU Door Latch Actuator Installation TASK 35-22-21-400-803-001		1	413	HAP ALL
<u>PASSENGER OXYGEN MASK - MAINTENANCE PRACTICES</u>	35-22-31	1	201	HAP ALL
PSU Oxygen Mask Packing TASK 35-22-31-000-803-001		1	201	HAP ALL
ASU and LSU Oxygen Mask Packing TASK 35-22-31-000-804-001		1	208	HAP ALL
Visual Inspection of the Oxygen Mask TASK 35-22-31-210-801-001		1	222	HAP ALL
<u>PASSENGER OXYGEN MASK - REMOVAL/ INSTALLATION</u>	35-22-31	1	401	HAP ALL
PSU Oxygen Mask Removal TASK 35-22-31-000-801-001		1	401	HAP ALL
PSU Oxygen Mask Installation TASK 35-22-31-400-801-001		1	405	HAP ALL
ASU and LSU Oxygen Mask Removal TASK 35-22-31-000-802-001		1	406	HAP ALL
ASU and LSU Oxygen Mask Installation TASK 35-22-31-400-802-001		1	412	HAP ALL

35-CONTENTS



737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL

CHAPTER 35
OXYGEN

<u>Subject</u>	<u>Chapter Section Subject</u>	<u>Conf</u>	<u>Page</u>	<u>Effect</u>
<u>PASSENGER OXYGEN MASK - CLEANING/ PAINTING</u>	35-22-31	1	701	HAP ALL
Clean the Oxygen Mask Assembly TASK 35-22-31-100-801-001		1	701	HAP ALL
<u>ALTITUDE PRESSURE SWITCH - REMOVAL/ INSTALLATION</u>	35-22-41		401	HAP ALL
Altitude Pressure Switch Removal TASK 35-22-41-000-801			401	HAP ALL
Altitude Pressure Switch Installation TASK 35-22-41-400-801			403	HAP ALL
<u>PORTABLE OXYGEN EQUIPMENT - INSPECTION/CHECK</u>	35-31-00		601	HAP ALL
Portable Oxygen Cylinder Pressure and Condition Check TASK 35-31-00-710-801			601	HAP ALL
Portable Oxygen Cylinder Leak Check TASK 35-31-00-710-802			605	HAP ALL
<u>PORTABLE OXYGEN SYSTEMS - CLEANING/PAINTING</u>	35-31-00		701	HAP ALL
Clean the Portable Oxygen System Components TASK 35-31-00-100-801			701	HAP ALL
<u>PORTABLE OXYGEN EQUIPMENT - REMOVAL/INSTALLATION</u>	35-31-01		401	HAP ALL
Replace Portable Oxygen Cylinder TASK 35-31-01-960-801			401	HAP ALL
<u>PORTABLE PROTECTIVE BREATHING EQUIPMENT - REMOVAL/INSTALLATION</u>	35-31-02		401	HAP 001-013, 015-026, 028-036, 048, 050, 053
Portable Protective Breathing Equipment Removal TASK 35-31-02-000-801			401	HAP 001-013, 015-026, 028-036, 048, 050, 053

35-CONTENTS



737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL

CHAPTER 35
OXYGEN

<u>Subject</u>	<u>Chapter Section Subject</u>	<u>Conf</u>	<u>Page</u>	<u>Effect</u>
Portable Protective Breathing Equipment Installation TASK 35-31-02-400-801			406	HAP 001-013, 015-026, 028-036, 048, 050, 053

35-CONTENTS



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

OXYGEN - MAINTENANCE PRACTICES

1. General

A. This procedure contains the general maintenance practices for oxygen system maintenance.

TASK 35-00-00-910-801

2. Oxygen System General Maintenance Practices

A. General

- (1) Oxygen servicing persons must review, or thoroughly know, these tasks before they do other oxygen procedures.

B. Oxygen System General Tasks

SUBTASK 35-00-00-910-004

- (1) Refer to these tasks for the applicable data:
- (a) Safety Precautions (Safety Precautions, TASK 35-00-00-910-802)
 - (b) Maintenance Practices (Maintenance Practices, TASK 35-00-00-910-803)
 - (c) Leak Detection (Leak Detection, TASK 35-00-00-790-801)
 - (d) Installation of Caps on Open Oxygen Lines and Fittings (Installation of Caps on Open Oxygen Lines, TASK 35-00-00-420-801)
 - (e) Oxygen Tubing Removal and Installation (Oxygen Tubing Removal and Installation, TASK 35-00-00-910-804).

————— **END OF TASK** —————

TASK 35-00-00-910-802

3. Safety Precautions

A. References

Reference	Title
20-40-11-910-801	Static Grounding (P/B 201)
35-00-00-100-801	Clean the Oxygen System Components (P/B 701)

B. Consumable Materials

Reference	Description	Specification
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	BMS15-5
G01306	Gloves - Lint-free	
G50306	Compound - Leak Detection, Oxygen System	MIL-PRF-25567 (BAC5402)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Safety Precautions

SUBTASK 35-00-00-910-005

- (1) Make sure only approved persons do maintenance on the oxygen systems. Approved persons are personnel who are trained and understand the dangers and procedures to safely do maintenance on oxygen systems.

EFFECTIVITY
HAP ALL

35-00-00

Page 201
Oct 10/2005

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-00-00-860-002

- (2) To make sure the airplane is electrically grounded, do this task: Static Grounding, TASK 20-40-11-910-801.

SUBTASK 35-00-00-610-004

WARNING: DO NOT ALLOW OIL, GREASE, DIRT OR OTHER FLAMMABLE MATERIALS TO TOUCH OXYGEN SYSTEM COMPONENTS. THESE MATERIALS WHEN EXPOSED TO PRESSURIZED OXYGEN CAN IGNITE AND CAUSE AN EXPLOSION. A FIRE OR EXPLOSION CAN CAUSE INJURY TO PERSONS AND DAMAGE TO EQUIPMENT.

- (3) Make sure the maintenance area is clean and free from these hazards:

- (a) Flammable materials

NOTE: Flammable materials include; oil, grease, gasoline, kerosene, cleaning solvents etc.

- (b) Contamination sources

NOTE: Contamination sources include; dust, lint, metal filings, human skin, or other organic materials.

- (c) Potential ignition sources

NOTE: Potential ignition sources include; hot exhaust, sparks, flame and burning cigarettes.

- (d) Make sure the fittings are clean and free of contamination, and unwanted material.

- (e) Use only approved procedures to clean oxygen system components, do this task: Clean the Oxygen System Components, TASK 35-00-00-100-801.

- (f) Make sure your hands, clothing, equipment, and tools are clean and free of petroleum products.

- (g) Use white lint-free gloves, G01306 to do the work on the oxygen system.

SUBTASK 35-00-00-100-002

WARNING: USE ONLY OXYGEN-CLEAN COMPONENTS IN THE OXYGEN SYSTEM. IF YOU DO NOT USE OXYGEN-CLEAN COMPONENTS, A FIRE OR AN EXPLOSION CAN OCCUR. THIS CAN CAUSE DAMAGE TO EQUIPMENT OR INJURIES TO PERSONS.

- (4) Make sure the fittings are clean and free of contamination, and threaded chips.

NOTE: Oxygen clean fittings come from a sealed package labeled for oxygen system installation. Make sure that you use only oxygen clean fittings. Some fittings used in the oxygen system are the same as fittings in other systems and are not oxygen clean. If it is necessary to clean parts, use the applicable oxygen procedures to clean the parts. This also applies to tube caps or plugs which must be as clean as the installation connections.

EFFECTIVITY
HAP ALL

35-00-00

Page 202
Oct 10/2004

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-00-00-860-003

WARNING: OPEN OXYGEN SYSTEM VALVES SLOWLY. IF YOU OPEN A VALVE QUICKLY, THE TEMPERATURE OF THE OXYGEN CAN INCREASE. THIS CAN CAUSE A FIRE OR AN EXPLOSION. A FIRE OR EXPLOSION CAN CAUSE INJURY TO PERSONS AND DAMAGE TO EQUIPMENT.

- (5) Open the oxygen system valves slowly.

NOTE: This will stop the quick (rapid) pressurization of the oxygen system. If the oxygen system is pressurized too quickly, it possible to get gas compression and a subsequent temperature increase.

SUBTASK 35-00-00-910-006

WARNING: DO NOT STAND OR SIT IN FRONT OF A HIGH PRESSURE OXYGEN SYSTEM REGULATOR (ABOVE 1000 PSI, 6895 KPA) THAT IS PRESSURIZED. IF THE REGULATOR FAILS, COMPONENTS OF THE REGULATOR CAN HIT AND INJURE YOU.

- (6) Do not sit or stand in front of a high pressure regulator.

SUBTASK 35-00-00-910-007

WARNING: DO NOT USE GASKETS OR LUBRICANTS WHEN YOU CONNECT THE FITTINGS IN THE OXYGEN SYSTEM. THE GASKETS OR LUBRICANTS CAN CAUSE A FIRE OR AN EXPLOSION WHEN THEY ARE EXPOSED TO PRESSURIZED OXYGEN. A FIRE OR EXPLOSION CAN CAUSE INJURY TO PERSONS AND DAMAGE TO EQUIPMENT.

- (7) Do not use gaskets or lubricants when you connect oxygen system fittings and tubing.

SUBTASK 35-00-00-420-001

WARNING: DO NOT USE THE B-NUT TO PULL THE FITTINGS INTO ALIGNMENT. IF THE FITTINGS ARE NOT CORRECTLY ALIGNED, A CRACK CAN OCCUR WHICH CAN CAUSE A FIRE OR EXPLOSION. A FIRE OR EXPLOSION CAN CAUSE INJURY TO PERSONS AND DAMAGE TO EQUIPMENT.

- (8) If two fittings are connected with a B-nut, make sure the fittings are aligned before you tighten the B-nut.

SUBTASK 35-00-00-910-008

- (9) Do not tighten the fittings while the oxygen system is pressurized.

SUBTASK 35-00-00-420-002

WARNING: DO NOT INSTALL LOW PRESSURE HOSES IN THE HIGH PRESSURE SYSTEM. THE LOW PRESSURE OXYGEN HOSE CAN BURST AND POSSIBLY CAUSE A FIRE OR EXPLOSION. A FIRE OR EXPLOSION CAN CAUSE INJURY TO PERSONS AND DAMAGE TO EQUIPMENT.

- (10) Do not connect the low pressure oxygen hoses in the high pressure system.

NOTE: Flexible hose assemblies are used in the high and low pressure systems and can be connected to standard tubing connectors. Low pressure hoses operate at pressures of 100 psi (689 kPa) and must not be installed in the high pressure system. High pressure can be more than 1850 psi (12,755 kPa).

EFFECTIVITY
HAP ALL

D633A101-HAP

BOEING PROPRIETARY - Copyright © Unpublished Work - See title page for details

35-00-00

Page 203
Oct 10/2004



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-00-00-910-009

WARNING: KEEP A GAP BETWEEN THE ELECTRICAL WIRING AND THE OXYGEN HOSES TO PREVENT CHAFFING. CHAFFING CAN CAUSE DAMAGE TO THE ELECTRICAL WIRING OR OXYGEN HOSES AND CAUSE A FIRE OR EXPLOSION. A FIRE OR EXPLOSION CAN CAUSE INJURY TO PERSONS AND DAMAGE TO EQUIPMENT.

- (11) Keep a 2 in. (51 mm) gap between the oxygen hose and the electrical wiring when the crew oxygen boxes and crew mask stowage boxes are closed.

NOTE: If the gap is less than 2 in. (51 mm), install a clamp hose around the wiring as necessary to stop the chaffing.

SUBTASK 35-00-00-860-004

CAUTION: MANUALLY OPEN AND CLOSE THE SHUTOFF VALVE, (25 IN-LB (2.8 N·M), MAXIMUM). IF YOU TIGHTEN THE VALVE ON THE OXYGEN CYLINDER MORE THAN 25 IN-LB (2.8 N·M), YOU CAN CAUSE DAMAGE TO THE SHUTOFF VALVE.

- (12) Use only your hand to open or close the valves in the oxygen system.

SUBTASK 35-00-00-790-001

- (13) Use only approved leak detection compound, G50306 to do leak checks.

SUBTASK 35-00-00-100-001

- (14) Immediately after the test, rub off the leak detection compound, G50306 with a white cotton cotton wiper, G00034.

SUBTASK 35-00-00-910-010

- (15) Make sure there is a sufficient flow of air through the work area when you do maintenance on the oxygen system.

SUBTASK 35-00-00-420-003

- (16) Do not permit the oxygen hoses to twist, kink, or collapse.

————— **END OF TASK** —————

TASK 35-00-00-910-803

4. **Maintenance Practices**

A. References

Reference	Title
35-00-00-100-801	Clean the Oxygen System Components (P/B 701)
35-12-00-800-801	Bleed the Crew Oxygen System Prior to System Maintenance or Repair (P/B 201)

B. Location Zones

Zone	Area
122	Forward Cargo Compartment - Right
200	Upper Half of Fuselage
211	Flight Compartment - Left
212	Flight Compartment - Right

C. Oxygen System General Maintenance Practices

SUBTASK 35-00-00-910-011

- (1) Before you remove and install oxygen system fittings, tubing, or components, do these steps:

EFFECTIVITY
HAP ALL

35-00-00

Page 204
Feb 10/2007

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (a) To read and obey the safety precautions before you do the maintenance, do this task: Safety Precautions, TASK 35-00-00-910-802.
- (b) Put on lint free, nylon gloves and clean clothing.
- (c) To clean all tools, equipment, and fittings, do this task: Clean the Oxygen System Components, TASK 35-00-00-100-801.
- (d) Wipe off dust or other contamination on the outside surface of the polyethylene bags with a clean, oil free cloth before you remove the component.

WARNING: USE ONLY OXYGEN-CLEAN COMPONENTS IN THE OXYGEN SYSTEM. IF YOU DO NOT USE OXYGEN-CLEAN COMPONENTS, A FIRE OR AN EXPLOSION CAN OCCUR. THIS CAN CAUSE DAMAGE TO EQUIPMENT OR INJURIES TO PERSONS.

- (e) Make sure any fittings, components, plugs or caps are clean and free of contamination, and threaded chips.

NOTE: Oxygen clean fittings come from a sealed package labeled for oxygen system installation. Make sure that you use only oxygen clean fittings. Some fittings used in the oxygen system are the same as fittings in other systems and are not oxygen clean. If it is necessary to clean parts, use the applicable oxygen procedures to clean the parts. This also applies to tube caps or plugs which must be as clean as the installation connections.

- (f) Do a check of all replacement tubes and components for damage, loose protective covers, incorrect identification or other problems.
- (g) Do not eat or smoke in oxygen system maintenance areas.
- (h) Check the maintenance area to make sure these conditions exist:
 - 1) the area is clean
 - 2) the area is free from dust or other particles
 - 3) the area is free from parts, solvents, cleaners, and other equipment not related to the oxygen system
 - 4) other planned maintenance is compatible with the oxygen system maintenance.
- (i) To remove the pressure (bleed the system) before you disconnect or remove the crew oxygen system components, do this task: Bleed the Crew Oxygen System Prior to System Maintenance or Repair, TASK 35-12-00-800-801.

WARNING: OPEN CONNECTIONS SLOWLY. IF YOU OPEN CONNECTIONS QUICKLY, THE TEMPERATURE OF THE OXYGEN CAN INCREASE. THIS CAN CAUSE A FIRE OR AN EXPLOSION. A FIRE OR EXPLOSION CAN CAUSE INJURY TO PERSONS AND DAMAGE TO EQUIPMENT.

- (j) If it is not possible to bleed off pressure through a mask, loosen the oxygen line connections to bleed off the pressure before you do maintenance.

SUBTASK 35-00-00-910-012

WARNING: USE ONLY OXYGEN-CLEAN COMPONENTS IN THE OXYGEN SYSTEM. IF YOU DO NOT USE OXYGEN-CLEAN COMPONENTS, A FIRE OR AN EXPLOSION CAN OCCUR. THIS CAN CAUSE DAMAGE TO EQUIPMENT OR INJURIES TO PERSONS.

- (2) You can use the nuts and fittings again if they are not damaged and there is a good seal on the assembly. Make sure the threads on the nuts and fittings turn smoothly.

EFFECTIVITY
HAP ALL

35-00-00

Page 205
Feb 10/2007

D633A101-HAP

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737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-00-00-910-013

- (3) When you install the tubing, align the fittings and tubing so you can tighten the B-nuts by hand before you tighten the B-nuts with a wrench. Do not use the fitting nuts to align the tubing and connections.

NOTE: Move the sleeve until it touches the mating surface. Do not use the nut to pull the tube into position. Leakage from the fittings or the tubing can occur if you cause damage to the fittings or the tubing.

————— **END OF TASK** —————

TASK 35-00-00-790-801

5. Leak Detection

A. General

- (1) If you disconnect the crew oxygen system tubing or components for maintenance, do this procedure to find any leaks after you re-connect the system.

B. References

Reference	Title
20-10-44-400-801	Lockwires Installation (P/B 401)
35-12-00-800-801	Bleed the Crew Oxygen System Prior to System Maintenance or Repair (P/B 201)

C. Consumable Materials

Reference	Description	Specification
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	BMS15-5
G01912	Lockwire - Monel (0.032 In. Dia.)	NASM20995N~ C32 (QQ-N-281)
G02479	Lockwire - Copper (0.020 inch Diameter)	NASM20995~ CY20
G50306	Compound - Leak Detection, Oxygen System	MIL-PRF-25567 (BAC5402)
G50310	Tape - Teflon, 1/4 inch wide, Permacel P-412	A-A-58092

D. Location Zones

Zone	Area
110	Subzone - Body Station 130 to Station 396
122	Forward Cargo Compartment - Right
200	Upper Half of Fuselage
211	Flight Compartment - Left
212	Flight Compartment - Right

E. Procedure - Leak Detection

SUBTASK 35-00-00-910-014

- (1) To read and obey the safety precautions and maintenance practices for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-00-00-940-001

- (2) Complete the maintenance on the oxygen system.

EFFECTIVITY
HAP ALL

D633A101-HAP

35-00-00

Page 206
Feb 10/2007



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (a) Connect and tighten the tubing or component(s).

SUBTASK 35-00-00-940-002

- (3) Do these steps to pressurize the oxygen system.

- (a) Go to the oxygen system cylinder found in the forward cargo compartment.

WARNING: OPEN THE SHUTOFF VALVE SLOWLY. IF YOU OPEN THE SHUTOFF VALVE QUICKLY, THE TEMPERATURE OF THE OXYGEN CAN INCREASE. THIS CAN CAUSE A FIRE OR AN EXPLOSION. A FIRE OR EXPLOSION CAN CAUSE INJURY TO PERSONS AND DAMAGE TO EQUIPMENT.

CAUTION: MANUALLY OPEN THE SHUTOFF VALVE. IF YOU TIGHTEN THE SHUTOFF VALVE TOO MUCH (MORE THAN 25 IN-LB (2.8 N·M)), DAMAGE TO THE VALVE CAN OCCUR.

- (b) Slowly open the shutoff valve on the oxygen cylinder with your hand.
 - (c) Close the shutoff valve one quarter of a turn.
 - (d) If there is an obvious leak, close the shutoff valve and repair the problem.

SUBTASK 35-00-00-940-003

- (4) Go to the area where the maintenance on the oxygen system was done.

SUBTASK 35-00-00-790-002

- (5) Apply the leak detection compound, G50306, to all connections that were disconnected.

SUBTASK 35-00-00-790-003

- (6) Use a mirror and a light when necessary to look at areas that are not easy to see.

SUBTASK 35-00-00-790-004

- (7) Do a check for leaks at all applicable connections (look for bubbles in the leak detection compound).

SUBTASK 35-00-00-790-005

- (8) If there is not a leak, use a clean lint free cotton wiper, G00034, to remove the leak detection compound, G50306, immediately.

SUBTASK 35-00-00-790-006

- (9) If there is a leak, do these steps:

CAUTION: MANUALLY CLOSE THE SHUTOFF VALVE. IF YOU TIGHTEN THE SHUTOFF VALVE TOO MUCH (MORE THAN 25 IN-LB (2.8 N·M)), DAMAGE TO THE VALVE CAN OCCUR.

- (a) Manually close the shutoff valve (25 in-lb (2.8 N·m), maximum).
 - (b) Do this task: Bleed the Crew Oxygen System Prior to System Maintenance or Repair, TASK 35-12-00-800-801.
 - (c) If there is a leak at a pipe thread connection, do these steps:
 - 1) If it is necessary you can seal the pipe thread with tape, G50310.
 - 2) Apply the tape, G50310 to the external threads.

NOTE: Do not apply the tape, G50310 to the last 1 1/2 to 2 1/2 threads at the end of the fitting.
 - 3) Apply 1 1/2 turns of the tape, G50310, pulled tight, to the pipe threads.
 - 4) Make sure the tape, G50310 does not have an overlap with the internal fitting end.
 - (d) Tighten the connection with a leak to the correct torque value.

EFFECTIVITY
HAP ALL

35-00-00

Page 207
Feb 10/2007

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

WARNING: OPEN THE SHUTOFF VALVE SLOWLY. YOU CAN CAUSE HIGH TEMPERATURES IN THE OXYGEN SYSTEM IF YOU OPEN THE SHUTOFF VALVE QUICKLY. HIGH TEMPERATURES CAN CAUSE A FIRE OR EXPLOSION. A FIRE OR EXPLOSION CAN CAUSE INJURY TO PERSONS AND DAMAGE TO EQUIPMENT.

CAUTION: MANUALLY OPEN THE SHUTOFF VALVE. IF YOU TIGHTEN THE SHUTOFF VALVE TOO MUCH (MORE THAN 25 IN-LB (2.8 N·M)), DAMAGE TO THE VALVE CAN OCCUR.

- (e) Slowly open the shutoff valve, with your hand, until it is fully open.
- (f) Close the shutoff valve one forth of a turn.
- (g) Check for leaks again with the leak detection compound, G50306.
- (h) If you cannot stop a leak replace the bad component.

WARNING: USE ONLY OXYGEN-CLEAN COMPONENTS IN THE OXYGEN SYSTEM. IF YOU DO NOT USE OXYGEN-CLEAN COMPONENTS, A FIRE OR AN EXPLOSION CAN OCCUR. THIS CAN CAUSE DAMAGE TO EQUIPMENT OR INJURIES TO PERSONS.

- (i) Make sure that any fittings, components, plugs or caps used are clean and free of contamination, and threaded chips.

NOTE: Oxygen clean fittings come from a sealed package labeled for oxygen system installation. Make sure that you use only oxygen clean fittings. Some fittings used in the oxygen system are the same as fittings in other systems and are not oxygen clean. If it is necessary to clean parts, use the applicable oxygen procedures to clean the parts. This also applies to tube caps or plugs which must be as clean as the installation connections.

F. Lockwire the Shutoff Valve on the Oxygen Cylinder

SUBTASK 35-00-00-420-004

- (1) When the oxygen system is satisfactory, to do these steps to lockwire the shutoff valve in the open position, do this task: Lockwires Installation, TASK 20-10-44-400-801.

WARNING: OPEN THE SHUTOFF VALVE SLOWLY. YOU CAN CAUSE HIGH TEMPERATURES IN THE OXYGEN SYSTEM IF YOU OPEN THE SHUTOFF VALVE QUICKLY. HIGH TEMPERATURES CAN CAUSE A FIRE OR EXPLOSION. A FIRE OR EXPLOSION CAN CAUSE INJURY TO PERSONS AND DAMAGE TO EQUIPMENT.

CAUTION: MANUALLY OPEN THE SHUTOFF VALVE. IF YOU TIGHTEN THE SHUTOFF VALVE TOO MUCH (MORE THAN 25 IN-LB (2.8 N·M)), DAMAGE TO THE VALVE CAN OCCUR.

- (a) Slowly open the shutoff valve, by hand, until it is fully open.

NOTE: The shutoff valve on the 801307-00 steel cylinder is fully open at approximately 6.5 revolutions. The shutoff valve on the B42365-1 composite cylinder is fully open at approximately 4.25 revolutions.

- (b) Close the shutoff valve one forth of a turn.
- (c) Use lockwire, G01912 or lockwire, G02479 to hold the shutoff valve in the open position.
 - 1) Wrap the lockwire around the coupling assembly in a counter-clockwise direction.
 - 2) Use the double-twist method.

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

35-00-00

Page 208
Jun 15/2008

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 35-00-00-420-801

6. Installation of Caps on Open Oxygen Lines

A. Tools/Equipment

Reference	Description
STD-1130	Cap - Protective, Aluminum, Flareless Tube, BACC14AG
STD-1131	Plug - Protective, Aluminum, Flareless Tube, BACP20BG

B. Consumable Materials

Reference	Description	Specification
G00624	Bag - Plastic, General Purpose	
G50310	Tape - Teflon, 1/4 inch wide, Permacel P-412	A-A-58092

C. Location Zones

Zone	Area
110	Subzone - Body Station 130 to Station 396
122	Forward Cargo Compartment - Right
200	Upper Half of Fuselage
211	Flight Compartment - Left
212	Flight Compartment - Right

D. Installation of Caps on Open Oxygen Lines

NOTE: Do this procedure each time an oxygen line is disconnected for more than five minutes.

SUBTASK 35-00-00-910-015

- (1) Use a tube cap, STD-1130 or a tube plug, STD-1131 to prevent contamination of the oxygen system.

SUBTASK 35-00-00-910-016

- (2) To make sure all tube cap, STD-1130 or tube plug, STD-1131 are cleaned by the oxygen system vapor degrease method, refer to: OHM, Chapter 20-30-03.

SUBTASK 35-00-00-910-017

- (3) Make sure all clean tube cap, STD-1130 or tube plug, STD-1131 are packaged in sealed, clean plastic bag, G00624.

NOTE: Do not open the plastic bag, G00624 until you are ready to install the caps or plugs. Seal the polyethylene bag immediately after you remove the cap or plug. Oxygen clean fittings come from a sealed package labeled for oxygen system installation. Make sure that you use only oxygen clean fittings. Some fittings used in the oxygen system are the same as fittings in other systems that are not oxygen clean. If it is necessary to clean parts, use the applicable oxygen procedures to clean the parts. This also applies to tube caps or plugs which must be as clean as the installation connections.

SUBTASK 35-00-00-910-018

- (4) You can use the tube cap, STD-1130 or tube plug, STD-1131 again if you clean the parts each time you use them.

NOTE: Do not use the plastic bag, G00624 again.

EFFECTIVITY
HAP ALL

D633A101-HAP

35-00-00

Page 209
Jun 10/2005



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-00-00-910-019

WARNING: USE ONLY APPROVED CAPS AND PLUGS WITH THE OXYGEN SYSTEM. UNAPPROVED EQUIPMENT USED TO SEAL THE OXYGEN SYSTEM CAN CAUSE SHAVINGS, CHIPS OR PARTICLES THAT CAN CAUSE CONTAMINATION OF THE HIGH PRESSURE OXYGEN SYSTEM. THE CONTAMINATION CAN CAUSE A FIRE OR EXPLOSION. A FIRE OR EXPLOSION CAN CAUSE INJURY TO PERSONS AND DAMAGE TO EQUIPMENT.

(5) Use only approved equipment to seal the oxygen system.

WARNING: USE ONLY OXYGEN-CLEAN COMPONENTS IN THE OXYGEN SYSTEM. IF YOU DO NOT USE OXYGEN-CLEAN COMPONENTS, A FIRE OR AN EXPLOSION CAN OCCUR. THIS CAN CAUSE DAMAGE TO EQUIPMENT OR INJURIES TO PERSONS.

(6) Make sure that any fittings, components, plugs or caps used are clean and free of contamination, and threaded chips.

NOTE: Oxygen clean fittings come from a sealed package labeled for oxygen system installation. Make sure that you use only oxygen clean fittings. Some fittings used in the oxygen system are the same as fittings in other systems and are not oxygen clean. If it is necessary to clean parts, use the applicable oxygen procedures to clean the parts. This also applies to tube caps or plugs which must be as clean as the installation connections.

SUBTASK 35-00-00-910-020

(7) Add a tube cap, STD-1130 or tube plug, STD-1131 to the open oxygen line(s) within five minutes.

SUBTASK 35-00-00-210-003

(8) Make sure the threads are clean.

SUBTASK 35-00-00-910-021

(9) Install tape, G50310 to the exterior threaded fittings.

SUBTASK 35-00-00-910-022

(10) Install clean tube cap, STD-1130 or tube plug, STD-1131 or immediately to each open fitting and port.

NOTE: You can use a new tube cap, STD-1130 or an equivalent plastic cap if the cap does not engage the connector threads. Use a clean metal tube cap, STD-1130 if the tube cap, STD-1130 engages the connector threads.

SUBTASK 35-00-00-910-023

(11) Install connectors or adjacent parts to the open oxygen lines within five minutes from when the tube cap, STD-1130 or tube plug, STD-1131 are removed.

————— **END OF TASK** —————

TASK 35-00-00-910-804

7. Oxygen Tubing Removal and Installation

A. General

- (1) This task contains the general maintenance practices for the removal and installation of the oxygen tubing and supply line fittings. The procedures in this task include:
 - (a) Removal and Installation of Tubing with Flareless and Flared Ends
 - (b) Removal and Installation of Hose End Fittings
 - (c) Removal and Installation of Pipe Threaded Fittings.

EFFECTIVITY
HAP ALL

35-00-00

Page 210
Jun 10/2005

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

B. References

Reference	Title
35-00-00-100-801	Clean the Oxygen System Components (P/B 701)
35-12-00-800-801	Bleed the Crew Oxygen System Prior to System Maintenance or Repair (P/B 201)

C. Tools/Equipment

Reference	Description
STD-1130	Cap - Protective, Aluminum, Flareless Tube, BACC14AG
STD-1131	Plug - Protective, Aluminum, Flareless Tube, BACP20BG

D. Consumable Materials

Reference	Description	Specification
G00624	Bag - Plastic, General Purpose	
G50310	Tape - Teflon, 1/4 inch wide, Permacel P-412	A-A-58092

E. Location Zones

Zone	Area
122	Forward Cargo Compartment - Right
200	Upper Half of Fuselage
211	Flight Compartment - Left
212	Flight Compartment - Right

F. Removal and Installation of Tubing with Flareless and Flared Ends

SUBTASK 35-00-00-840-001

- (1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-00-00-910-024

- (2) You must identify the tubing assembly configuration and the tubing material before removal.

SUBTASK 35-00-00-020-002

- (3) Do these steps to remove the oxygen system tubing:

WARNING: REMOVE ALL PRESSURE FROM THE OXYGEN SYSTEM BEFORE YOU START THE REMOVAL OF THE TUBING ASSEMBLY. A PRESSURIZED SYSTEM CAN CAUSE INJURY.

- (a) Do this task: Bleed the Crew Oxygen System Prior to System Maintenance or Repair, TASK 35-12-00-800-801.
- (b) Get access to the tube assembly fittings.
- (c) Remove the support clamps on the tubing you will remove.
- (d) Loosen the adjacent tubing assemblies and clamps if it is necessary.
- (e) Remove the tubing assembly from the airplane.

WARNING: USE ONLY OXYGEN-CLEAN COMPONENTS IN THE OXYGEN SYSTEM. IF YOU DO NOT USE OXYGEN-CLEAN COMPONENTS, A FIRE OR AN EXPLOSION CAN OCCUR. THIS CAN CAUSE DAMAGE TO EQUIPMENT OR INJURIES TO PERSONS.

- (f) To prevent contamination:

EFFECTIVITY
HAP ALL

35-00-00

Page 211
Feb 10/2007

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- 1) Make sure that any fittings, components, plugs or caps used are clean and free of contamination, and threaded chips.
- 2) Install a tube cap, STD-1130 or a tube plug, STD-1131 in each port (TASK 35-00-00-420-801).
- 3) Install a tube cap, STD-1130 or a tube plug, STD-1131 in the oxygen line (TASK 35-00-00-420-801).

NOTE: Oxygen clean fittings come from a sealed package labeled for oxygen system installation. Make sure that you use only oxygen clean fittings. Some fittings used in the oxygen system are the same as fittings in other systems and are not oxygen clean. If it is necessary to clean parts, use the applicable oxygen procedures to clean the parts. This also applies to tube caps or plugs which must be as clean as the installation connections.

SUBTASK 35-00-00-900-001

- (4) Install the assemblies with flareless and flared end fittings hand tight within five minutes after the removal of the protective plastic bag, G00624.

SUBTASK 35-00-00-900-002

- (5) Do these steps before you install the oxygen system tubing:
 - (a) Examine the tube ends and fittings for damage:
 - 1) Look for damage or contamination that can prevent a good seal during the installation.
 - 2) Look for worn areas or dents on the tube.

WARNING: USE ONLY OXYGEN-CLEAN COMPONENTS IN THE OXYGEN SYSTEM. IF YOU DO NOT USE OXYGEN-CLEAN COMPONENTS, A FIRE OR AN EXPLOSION CAN OCCUR. THIS CAN CAUSE DAMAGE TO EQUIPMENT OR INJURIES TO PERSONS.

- 3) Make sure that any fittings, components, plugs or caps used are clean and free of contamination, and threaded chips.

NOTE: Oxygen clean fittings come from a sealed package labeled for oxygen system installation. Make sure that you use only oxygen clean fittings. Some fittings used in the oxygen system are the same as fittings in other systems and are not oxygen clean. If it is necessary to clean parts, use the applicable oxygen procedures to clean the parts. This also applies to tube caps or plugs which must be as clean as the installation connections.

- 4) Replace the tube if necessary.
- (b) To clean the components if it is necessary, do this task: Clean the Oxygen System Components, TASK 35-00-00-100-801.
- (c) Do not apply lubrication during the installation.

NOTE: The dry film lubrication on the parts, as supplied, is satisfactory.

SUBTASK 35-00-00-420-005

- (6) Do these steps to align the tubing:

EFFECTIVITY
HAP ALL

D633A101-HAP

35-00-00

Page 212
Feb 10/2007



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

WARNING: USE ONLY OXYGEN-CLEAN COMPONENTS IN THE OXYGEN SYSTEM. IF YOU DO NOT USE OXYGEN-CLEAN COMPONENTS, A FIRE OR AN EXPLOSION CAN OCCUR. THIS CAN CAUSE DAMAGE TO EQUIPMENT OR INJURIES TO PERSONS.

- (a) Make sure that any fittings, components, plugs or caps used are clean and free of contamination, and threaded chips.

NOTE: Oxygen clean fittings come from a sealed package labeled for oxygen system installation. Make sure that you use only oxygen clean fittings. Some fittings used in the oxygen system are the same as fittings in other systems and are not oxygen clean. If it is necessary to clean parts, use the applicable oxygen procedures to clean the parts. This also applies to tube caps or plugs which must be as clean as the installation connections.

- (b) Put the oxygen tubing in the correct location.
(c) Keep the tube clamps loose to let you align the tube in the fitting.
(d) Turn the tube by hand to align the tube end and the fitting.
(e) Make sure the tube end touches the bottom of the fitting.
(f) Turn the B-nut by hand until the B-nut almost touches the bottom of the sleeve shoulder.
(g) Do not use the B-nut to align the tube.

CAUTION: USE TWO WRENCHES TO TIGHTEN THE TUBE COUPLING NUTS. IF YOU DO NOT USE TWO WRENCHES, DAMAGE TO THE TUBES AND FITTINGS CAN OCCUR.

- (h) Hold the union with a wrench and tighten the B-nut within 8 hours.
(i) For B-nuts used with steel tubes (CRES) tighten to the installation torque value in (Table 201)
(j) For B-nuts used with aluminum tubes tighten to the installation torque value in (Table 202)
(k) If you have a leak, you can loosen and tighten the B-nut again.
1) If the flareless tubing assembly is a reducer fitting, use the boss or bulkhead size to get the correct torque and tighten the assembly.

Table 201/35-00-00-993-801

Tube Dash No. Steel Tubes	Tube Size Inches	Torque Pound-Inches $\pm 5\%$ (Newton-Meters)
-05	5/16	190 (21.5)
-06	3/8	270 (30.5)
-08	1/2	500 (56.5)
-10	5/8	700 (79.1)
-12	3/4	900 (101.7)
-16	1	1200 (135.6)

Table 202/35-00-00-993-803

Tube Dash No. Aluminum Tubes	Tube Size Inches	Torque Pound-Inches $\pm 5\%$ (Newton-Meters)
-05	5/16	140 (15.8)
-06	3/8	170 (19.2)

EFFECTIVITY
HAP ALL

35-00-00

Page 213
Oct 10/2004

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

(Continued)

Tube Dash No. Aluminum Tubes	Tube Size Inches	Torque Pound-Inches $\pm 5\%$ (Newton-Meters)
-08	1/2	280 (31.6)
-10	5/8	360 (40.7)
-12	3/4	450 (50.8)
-16	1	750 (84.7)

SUBTASK 35-00-00-420-006

(7) Do these steps on tubes where you cannot get a torque wrench on the tube:

(a) Tighten the nuts with your hand as follows:

- 1) Hand tighten until a clear increase in torque occurs, then tighten 1/6 to 1/3 turn more.
- 2) Tighten the flareless fittings with the BACS13AP sleeves two times (tighten, loosen, and tighten again).

NOTE: The maximum tube collapse permitted after you tighten the BACS13AP sleeves is 0.015 in. (0.381 mm) less than the tube inside diameter.

SUBTASK 35-00-00-410-001

CAUTION: ALWAYS KEEP THE CLAMPS TIGHT. TIGHT CLAMPS KEEP THE AREA BETWEEN THE TUBE AND THE CLAMP SURFACES FREE OF UNWANTED MATERIALS AND CONTAMINATION. IF SURFACES ARE NOT CLEAN, DAMAGE BY FRICTION CAN OCCUR.

(8) Tighten all of the tube clamps.

G. Removal and Installation of Pipe Threaded Fittings

SUBTASK 35-00-00-840-003

- (1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-00-00-020-001

- (2) When you disconnect fittings with teflon tape, make sure the tape does not contaminate the oxygen system.

SUBTASK 35-00-00-420-008

WARNING: USE ONLY OXYGEN-CLEAN COMPONENTS IN THE OXYGEN SYSTEM. IF YOU DO NOT USE OXYGEN-CLEAN COMPONENTS, A FIRE OR AN EXPLOSION CAN OCCUR. THIS CAN CAUSE DAMAGE TO EQUIPMENT OR INJURIES TO PERSONS.

- (3) Install pipe threaded fittings in the component boss within five minutes after you open the protective bag (TASK 35-00-00-420-801).

NOTE: Oxygen clean fittings come from a sealed package labeled for oxygen system installation. Make sure that you use only oxygen clean fittings. Some fittings used in the oxygen system are the same as fittings in other systems and are not oxygen clean. If it is necessary to clean parts, use the applicable oxygen procedures to clean the parts. This also applies to tube caps or plugs which must be as clean as the installation connections.

EFFECTIVITY
HAP ALL

35-00-00

Page 214
Oct 10/2005

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-00-00-420-009

- (4) Do these steps to apply teflon tape, G50310, to the pipe threaded fitting ends:
- Put the edge of the tape, G50310 on the fitting.
 - Make sure a minimum of 1-1/2 threads to a maximum of 2-1/2 threads remain uncovered at the start of the fitting.
 - Pull the tape, G50310 around the threads to follow the thread contour.
 - Apply 1-1/2 turns of tape, G50310 on fittings up to 1.5 in. (38.1 mm) in diameter.
 - Apply 2 to 4 turns of tape, G50310 on fittings up to 1.5 in. (38.1 mm) in diameter and larger.
 - Use narrow tape, G50310 (0.25 in. (6.4 mm) wide) when necessary, to make sure the tape does not cover threaded fitting end.

SUBTASK 35-00-00-420-010

- (5) Do these steps to install the pipe threaded fittings:

WARNING: USE ONLY OXYGEN-CLEAN COMPONENTS IN THE OXYGEN SYSTEM. IF YOU DO NOT USE OXYGEN-CLEAN COMPONENTS, A FIRE OR AN EXPLOSION CAN OCCUR. THIS CAN CAUSE DAMAGE TO EQUIPMENT OR INJURIES TO PERSONS.

- (a) Make sure that any fittings, components, plugs or caps used are clean and free of contamination, and threaded chips.

NOTE: Oxygen clean fittings come from a sealed package labeled for oxygen system installation. Make sure that you use only oxygen clean fittings. Some fittings used in the oxygen system are the same as fittings in other systems and are not oxygen clean. If it is necessary to clean parts, use the applicable oxygen procedures to clean the parts. This also applies to tube caps or plugs which must be as clean as the installation connections.

- (b) Install the fitting by hand a minimum of two turns until it stops in the thread.
- (c) Tighten the fittings with a torque wrench to the minimum torque value in (Table 203) within 8 hours.
- For pipe threaded fittings except CRES to CRES material combinations use the torque values in (Table 203)
 - For pipe threaded fittings made of CRES to CRES material combinations use the torque values in (Table 204)
- (d) Do not back off pipe threaded fittings.
- (e) Use the maximum torque in (Table 203) or (Table 204) if there is a leak or for alignment.

Table 203/35-00-00-993-802

Fitting Size All Except CRES To CRES	Torque Value Pound-Inches (Newton-Meters) Minimum	Torque Value Pound-Inches (Newton-Meters) Maximum
5/16	175 (19.8)	300 (33.9)
3/8	225 (25.4)	450 (50.8)
1/2	300 (33.9)	600 (67.8)

EFFECTIVITY
HAP ALL

35-00-00

Page 215
Jun 10/2006

D633A101-HAP



737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL

Table 204/35-00-00-993-804

Fitting Size CRES to CRES	Torque Value Pound-Inches (Newton-Meters) Minimum	Torque Value Pound-Inches (Newton-Meters) Maximum
5/16	100 (11.3)	300 (33.9)
3/8	100 (11.3)	400 (45.2)
1/2	100 (11.3)	500 (56.5)
3/4	150 (16.9)	600 (67.8)
1	200 (22.6)	800 (90.4)

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

D633A101-HAP

35-00-00

Page 216
Oct 10/2004



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

OXYGEN - SERVICING

1. General

A. This procedure contains these tasks:

- (1) Servicing of the Crew Oxygen System
- (2) Servicing of the Passenger Oxygen System
- (3) Servicing of the Portable Oxygen System.

TASK 35-00-00-600-801

2. Servicing of the Crew Oxygen System

A. References

Reference	Title
12-15-21-600-801-001	Crew Oxygen Cylinder Replacement (P/B 301)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)

B. Location Zones

Zone	Area
122	Forward Cargo Compartment - Right

C. Procedure

SUBTASK 35-00-00-910-001

- (1) To read and obey the safety precautions and general maintenance instructions before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-00-00-610-001

- (2) To service the crew oxygen system, do this task: Crew Oxygen Cylinder Replacement, TASK 12-15-21-600-801-001.

————— **END OF TASK** —————

TASK 35-00-00-600-802

3. Servicing of the Passenger Oxygen System

A. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-11-000-804-001	PSU Oxygen Generator Removal (P/B 401)
35-22-11-000-805-001	ASU Oxygen Generator Removal (P/B 401)
35-22-11-000-806-001	LSU Oxygen Generator Removal (P/B 401)
35-22-11-400-804-001	PSU Oxygen Generator Installation (P/B 401)
35-22-11-400-805-001	ASU Oxygen Generator Installation (P/B 401)
35-22-11-400-806-001	LSU Oxygen Generator Installation (P/B 401)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

EFFECTIVITY
HAP ALL

35-00-00

Page 301
Feb 15/2008

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

C. Procedure

SUBTASK 35-00-00-910-002

- (1) To read and obey the safety precautions and general maintenance instructions before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-00-00-610-002

- (2) Do the applicable task to replace the chemical oxygen generator(s):
 - (a) For the passenger service units do these tasks:
PSU Oxygen Generator Removal, TASK 35-22-11-000-804-001
PSU Oxygen Generator Installation, TASK 35-22-11-400-804-001
 - (b) For the attendant service units do these tasks:
ASU Oxygen Generator Removal, TASK 35-22-11-000-805-001
ASU Oxygen Generator Installation, TASK 35-22-11-400-805-001
 - (c) For the lavatory service units do these tasks:
LSU Oxygen Generator Removal, TASK 35-22-11-000-806-001
LSU Oxygen Generator Installation, TASK 35-22-11-400-806-001

————— **END OF TASK** —————

TASK 35-00-00-600-803

4. Portable Oxygen System Servicing

A. References

Reference	Title
35-31-01-960-801	Replace Portable Oxygen Cylinder (P/B 401)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Procedure

SUBTASK 35-00-00-010-001

- (1) Open the stowage compartment door, if applicable.

SUBTASK 35-00-00-960-001

- (2) Replace the portable oxygen cylinders with fully serviced oxygen cylinders, do this task:
Replace Portable Oxygen Cylinder, TASK 35-31-01-960-801.

SUBTASK 35-00-00-410-002

- (3) Close the stowage compartment door, if applicable.

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

D633A101-HAP

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35-00-00

Page 302
Feb 15/2008



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

OXYGEN - CLEANING/PAINTING

1. General

A. This procedure contains this task:

- (1) Clean the Oxygen System Components.

TASK 35-00-00-100-801

2. Clean the Oxygen System Components

A. General

- (1) When you do maintenance on the oxygen system, it is important that the work area is clean and free from contamination. If the work area is not clean, these conditions can occur:
 - (a) When contamination and an ignition source are near the oxygen, a fire or an explosion can occur.
 - (b) Contamination can inhibit the usual operation of the oxygen equipment.
 - (c) Contamination can supply dangerous fumes to the users of the oxygen equipment.
- (2) All oxygen system components must be clean and dry when they are installed.

B. References

Reference	Title
35-00-00-420-801	Installation of Caps on Open Oxygen Lines (P/B 201)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
SOPM 20-30-80	Solvents For General Cleaning of Metal (Series 80)

C. Tools/Equipment

Reference	Description
STD-1130	Cap - Protective, Aluminum, Flareless Tube, BACC14AG
STD-1131	Plug - Protective, Aluminum, Flareless Tube, BACP20BG

D. Consumable Materials

Reference	Description	Specification
G00018	Nitrogen - Gaseous, Pressurizing, 99.5 Percent Pure	A-A-59503, Type I, Grade B
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	BMS15-5
G00624	Bag - Plastic, General Purpose	

E. Location Zones

Zone	Area
122	Forward Cargo Compartment - Right
210	Subzone - Control Compartment - Body Station 178.00 to Body Station 259.50

F. Procedure

SUBTASK 35-00-00-910-003

- (1) To read and obey the safety precautions and general instructions before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

EFFECTIVITY
HAP ALL

35-00-00

Page 701
Jun 10/2005

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-00-00-140-001

- (2) To remove surface contamination from oxygen system components, do this step:
- Rub the component(s) with a clean, dry, cotton wiper, G00034.

SUBTASK 35-00-00-140-002

- (3) If you cannot remove the surface contamination with a dry cotton wiper, G00034 only, do this step:

WARNING: ONLY USE CLEANING SOLVENTS ON THE OUTSIDE OF THE OXYGEN SYSTEM COMPONENTS. DO NOT USE CLEANING SOLVENTS ON THE INSIDE OF THE OXYGEN SYSTEM COMPONENTS.

- Clean the contamination with a clean cotton wiper, G00034 and approved cleaning solvent (SOPM 20-30-80), then rub the area dry.

SUBTASK 35-00-00-160-001

- (4) Do these steps to clean the oxygen subassembly component(s):
- Disassemble or remove the oxygen component(s) from the airplane.
 - Use the instructions in the manufacturers overhaul manual to clean the component(s).
 - To clean oxygen tubing and fittings, use an approved vapor degrease process, refer to OHM 20-30-03.
 - Use one of these compressed gases to thoroughly dry the component(s):
 - nitrogen, G00018.

WARNING: CONTAMINATION CAUSED BY HYDROCARBONS AND UNWANTED PARTICLES IN OXYGEN LINES CAN CAUSE FIRES OR EXPLOSIONS. MAKE SURE THE AIR SOURCE MEETS THE SPECIFICATIONS CALLED OUT IN THE STEPS THAT FOLLOW. A FIRE CAN CAUSE INJURY TO PERSONS AND DAMAGE TO THE AIRPLANE.

- Clean, nitrogen, G00018, with these specifications:
 - Hydrocarbon contamination - maximum allowable - 3 parts per million by weight as carbon or 7 parts per million as CH₄.
 - Particulate contamination - maximum allowable - No particles or fiber greater than 100 micron in the longest dimension per cubic foot of air.
 - Moisture contamination - maximum allowable - 0.00002 grams (water vapor per liter of air at 70°F (21°C), 760 mm Hg, which is equivalent to a dew point of -63.6°F (-53.1°C) at 760 mm Hg).

SUBTASK 35-00-00-530-001

WARNING: USE ONLY OXYGEN-CLEAN COMPONENTS IN THE OXYGEN SYSTEM. IF YOU DO NOT USE OXYGEN-CLEAN COMPONENTS, A FIRE OR AN EXPLOSION CAN OCCUR. THIS CAN CAUSE DAMAGE TO EQUIPMENT OR INJURIES TO PERSONS.

- (5) If the component is not installed on the airplane immediately, do these steps to package the components for storage:
- Make sure any fittings, components, plugs or caps are clean and free of contamination, and threaded chips.

EFFECTIVITY
HAP ALL

D633A101-HAP

35-00-00

Page 702
Jun 10/2005



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (b) Immediately install approved, clean, tube cap, STD-1130 or a tube plug, STD-1131 on all oxygen system components, tubes and fittings (TASK 35-00-00-420-801).

NOTE: tube cap, STD-1130 or a tube plug, STD-1131 are not necessary for BAC, NAS, AN or MS standard fittings.

NOTE: Oxygen clean fittings come from a sealed package labeled for oxygen system installation. Make sure that you use only oxygen clean fittings. Some fittings used in the oxygen system are the same as fittings in other systems and are not oxygen clean. If it is necessary to clean parts, use the applicable oxygen procedures to clean the parts. This also applies to tube caps or plugs which must be as clean as the installation connections.

- (c) Immediately put the components in clean individual sealed plastic bag, G00624.

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

D633A101-HAP

35-00-00

Page 703
Jun 10/2005



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

OXYGEN - DDG MAINTENANCE PROCEDURES

1. General

- A. This procedure has the maintenance tasks for the Master Minimum Equipment List (MMEL) maintenance requirements as shown in the Dispatch Deviations Procedures Guide (DDPG). These tasks prepare the airplane for flight with systems/components that are inoperative.
- B. This procedure also has the tasks that put the airplane back to its usual condition.
- C. These are the tasks for the components in the oxygen system:
 - (1) MMEL 35-2 (DDPG) Preparation - Passenger Service Units Inoperative
 - (2) MMEL 35-2 (DDPG) Restoration - Passenger Service Units Inoperative
 - (3) MMEL 35-3 (DDPG) Preparation - Flight Deck Oxygen Indicator Inoperative
 - (4) MMEL 35-3 (DDPG) Restoration - Flight Deck Oxygen Indicator Inoperative
 - (5) MMEL 35-4 (DDPG) Preparation - Portable Oxygen Dispensing Units Inoperative
 - (6) MMEL 35-4 (DDPG) Restoration - Portable Oxygen Dispensing Units Inoperative
 - (7) MMEL 35-5 (DDPG) Preparation - Passenger Oxygen System Inoperative
 - (8) MMEL 35-5 (DDPG) Restoration - Passenger Oxygen System Inoperative.

TASK 35-00-00-040-801

2. MMEL 35-2 (DDPG) Preparation - Passenger Service Units (PSUs) Inoperative

- A. General
 - (1) This task gives the maintenance steps which prepare the airplane for flight with the passenger, lavatory, or attendant service units inoperative.

B. References

Reference	Title
35-22-00-700-801	Passenger Oxygen System - Functional Test (P/B 501)
35-22-11-000-804-001	PSU Oxygen Generator Removal (P/B 401)
35-22-11-000-805-001	ASU Oxygen Generator Removal (P/B 401)
35-22-11-000-806-001	LSU Oxygen Generator Removal (P/B 401)
35-22-11-400-804-001	PSU Oxygen Generator Installation (P/B 401)
35-22-11-400-805-001	ASU Oxygen Generator Installation (P/B 401)
35-22-11-400-806-001	LSU Oxygen Generator Installation (P/B 401)
35-22-31-000-803-001	PSU Oxygen Mask Packing (P/B 201)
35-22-31-000-804-001	ASU and LSU Oxygen Mask Packing (P/B 201)

C. Consumable Materials

Reference	Description	Specification
G02311	Tape - Pressure Sensitive Adhesive, for Masking During Paint Stripping Operations	AMS-T-23397

D. Location Zones

Zone	Area
200	Upper Half of Fuselage

EFFECTIVITY
HAP ALL

35-00-00

Page 901
Jun 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

E. Automatic Deploy System Deactivation

SUBTASK 35-00-00-720-001

- (1) To do the Manual Deploy task of the Functional Test, do this task: Passenger Oxygen System - Functional Test, TASK 35-22-00-700-801.

- (a) Make sure the passenger oxygen manual deploy system is satisfactory.

SUBTASK 35-00-00-210-001

- (2) With only the automatic deploy system inoperative, put this placard near the PASS OXYGEN switch:

NOTE: The PASS OXYGEN switch is on the pilot's overhead panel, P5.

- (a) PASS OXY - AUTO MODE INOP.

F. Door Latch(es) (Unlatched) Deactivation

SUBTASK 35-00-00-210-002

- (1) Do these steps to do a check of the oxygen generator(s):

- (a) Go to the applicable attendant, passenger, or lavatory service units (PSU / ASU / LSU).

- (b) Get access to the service unit oxygen generator.

- (c) Look at the color band on the oxygen generator.

- (d) If the color band is black (the generator has fired), do these tasks to replace the oxygen generator(s):

- 1) To replace the PSU oxygen generator, do these tasks:

- PSU Oxygen Generator Removal, TASK 35-22-11-000-804-001

- PSU Oxygen Generator Installation, TASK 35-22-11-400-804-001

- 2) To replace the ASU oxygen generator, do these tasks:

- ASU Oxygen Generator Removal, TASK 35-22-11-000-805-001

- ASU Oxygen Generator Installation, TASK 35-22-11-400-805-001

- 3) To replace the LSU oxygen generator, do these tasks:

- LSU Oxygen Generator Removal, TASK 35-22-11-000-806-001

- LSU Oxygen Generator Installation, TASK 35-22-11-400-806-001

SUBTASK 35-00-00-040-001

- (2) Do these steps to prepare the applicable PSU(s) ASU(s) or LSU(s):

- (a) To make sure the oxygen masks are packed correctly, do the applicable tasks:

- PSU Oxygen Mask Packing, TASK 35-22-31-000-803-001

- ASU and LSU Oxygen Mask Packing, TASK 35-22-31-000-804-001

- (b) Close the oxygen mask door on the PSU, the LSU, or the ASU, as applicable.

- (c) Put a piece of masking tape, G02311, or an equivalent tape perscribed by the airline, on the oxygen mask door to keep the door in the closed position.

- (d) Close the PSU.

- (e) Do these steps to make a tape handle:

NOTE: The tape handle will allow the passenger to manually open the oxygen mask door if the oxygen masks are needed in an emergency.

- 1) Fold a piece of tape to make a handle approximately four inches long (non-adhesive side out).

EFFECTIVITY
HAP ALL

35-00-00

Page 902
Jun 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- 2) Put the tape handle over the tape that is used to keep the PSU oxygen mask door closed.
- 3) Make sure the tape handle hangs down approximately four inches.

G. Passenger Service Unit Deactivation

SUBTASK 35-00-00-040-002

- (1) Do these steps to deactivate an inoperative service unit:
 - (a) Go to the applicable passenger or lavatory service unit.
 - (b) Close the oxygen mask door.
 - (c) Put a piece of masking tape, G02311, or an equivalent tape perscribed by the airline, on the oxygen mask door to keep the door in the closed position.
 - (d) Use the masking tape, G02311, or an equivalent tape or rope perscribed by the airline, to make sure passengers do not use seats with an inoperative PSU.
 - (e) Lock the door on any lavatories with an inoperative oxygen box.
 - (f) Attach this placard to the applicable seats or lavatory doors:
 - 1) NOT TO BE OCCUPIED

————— END OF TASK —————

TASK 35-00-00-440-801

3. MMEL 35-2 (DDPG) Restoration - Passenger Service Units (PSUs) Inoperative

A. General

- (1) This task puts the airplane back to its usual condition after operation with the passenger service unit(s) inoperative.

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Automatic Deploy System Restoration

SUBTASK 35-00-00-810-001

- (1) Do the applicable chapter 35 FIM procedure to troubleshoot the passenger oxygen automatic deployment system.

SUBTASK 35-00-00-440-001

- (2) Remove this placard from the PASS OXYGEN switch:
 - (a) PASS OXY - AUTO MODE INOP

D. Door Latch(es) Restoration

SUBTASK 35-00-00-810-002

- (1) Remove the tape handle and tape used to keep the inoperative oxygen mask door(s) closed.

SUBTASK 35-00-00-810-003

- (2) Do the applicable chapter 35 FIM procedure to troubleshoot the door latch(es).

E. Passenger Service Unit(s) Restoration

SUBTASK 35-00-00-810-004

- (1) Remove the tape used to keep the inoperative oxygen mask door(s) closed.

SUBTASK 35-00-00-810-005

- (2) Do the applicable chapter 35 FIM procedure to troubleshoot the inoperative service unit(s).

EFFECTIVITY
HAP ALL

35-00-00

Page 903
Jun 15/2009

D633A101-HAP



737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-00-00-440-002

- (3) Remove the NOT TO BE OCCUPIED placard(s).

————— **END OF TASK** —————

TASK 35-00-00-440-802

4. M MEL 35-3 (DDPG) Preparation - Flight Deck Oxygen Pressure Indicator Inoperative

A. General

- (1) This task is for the operation of the airplane with the oxygen pressure indicator inoperative.

B. Location Zones

Zone	Area
122	Forward Cargo Compartment - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

C. Oxygen Pressure Indicator Deactivation

SUBTASK 35-00-00-040-003

- (1) Put a INOP placard next to the OXYGEN pressure gage.

NOTE: The OXYGEN pressure gage is on the pilot's overhead panel, P5.

SUBTASK 35-00-00-860-001

- (2) Do these steps to check the crew oxygen system pressure at the crew oxygen cylinder:

- (a) Go into the forward cargo compartment.
- (b) Remove the bottom cargo compartment panel from the front of the cargo compartment.
- (c) Look at the pressure gage on the crew oxygen cylinder.
- (d) Make sure that the oxygen supply is above the minimum that is necessary for flight.

NOTE: See the Boeing Operations Manual, Flight Planning Normal section, for minimum dispatch bottle pressure.

- (e) Make sure that the shutoff valve on the crew oxygen cylinder is open.
- (f) Install the bottom cargo compartment panel.
- (g) Go out of the forward cargo compartment.

————— **END OF TASK** —————

TASK 35-00-00-440-803

5. M MEL 35-3 (DDPG) Restoration - Flight Deck Oxygen Pressure Indicator Inoperative

A. General

- (1) This task puts the airplane back to its usual condition after operation with the flight compartment oxygen pressure indicator inoperative.

B. Location Zones

Zone	Area
122	Forward Cargo Compartment - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

EFFECTIVITY
HAP ALL

35-00-00

Page 904
Feb 15/2008

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

C. Oxygen Pressure Indicator Restoration

SUBTASK 35-00-00-810-006

- (1) Do the applicable chapter 35 FIM procedures to troubleshoot the crew oxygen pressure indication system.

SUBTASK 35-00-00-440-003

- (2) Remove the INOP placard from the OXYGEN pressure gage.

————— END OF TASK —————

TASK 35-00-00-440-804

6. M MEL 35-4 (DDPG) Preparation - Portable Oxygen Dispensing Units Inoperative

A. General

- (1) This task is for the operation of the airplane with the necessary quantity of portable oxygen dispensing units not fully serviced.

B. References

Reference	Title
35-31-00-710-801	Portable Oxygen Cylinder Pressure and Condition Check (P/B 601)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Portable Oxygen Deactivation

SUBTASK 35-00-00-040-004

- (1) Do this task: Portable Oxygen Cylinder Pressure and Condition Check, TASK 35-31-00-710-801.

SUBTASK 35-00-00-960-002

- (2) Replace any portable oxygen cylinders or masks that do not operate correctly.

SUBTASK 35-00-00-960-003

- (3) Replace any portable oxygen cylinders or masks that do not operate correctly.

SUBTASK 35-00-00-960-004

- (4) If a portable oxygen cylinder is not fully serviced, replace the cylinder with a fully serviced cylinder.

SUBTASK 35-00-00-610-003

- (5) If it is not possible to service a portable oxygen cylinder that is necessary to dispatch the airplane, add this placard to the cylinder:

- (a) SERVICE AT NEXT MAINTENANCE FACILITY.

————— END OF TASK —————

TASK 35-00-00-440-805

7. M MEL 35-4 (DDPG) Restoration - Portable Oxygen Dispensing Units Inoperative

A. General

- (1) This task puts the airplane back to its usual condition after operation with the necessary quantity of portable oxygen dispensing units not fully serviced.

EFFECTIVITY
HAP ALL

35-00-00

Page 905
Feb 15/2008

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Portable Oxygen Restoration

SUBTASK 35-00-00-810-007

- (1) Fully service the portable oxygen cylinders.

SUBTASK 35-00-00-810-008

- (2) Make sure the minimum quantity of portable oxygen cylinders that are necessary to dispatch the airplane, are fully serviced and operate correctly.

SUBTASK 35-00-00-610-006

- (3) Remove this placard from the cylinder (if installed):
 - (a) SERVICE AT NEXT MAINTENANCE FACILITY.

————— **END OF TASK** —————

TASK 35-00-00-440-806

8. M MEL 35-5 (DDPG) Preparation - Passenger Oxygen System Inoperative

A. General

- (1) This task is for the operation of the airplane with the passenger oxygen system inoperative.

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Passenger Oxygen System Deactivation

SUBTASK 35-00-00-040-005

- (1) Put a INOP placard next to the PASS OXYGEN switch.

NOTE: The PASS OXYGEN switch is on the pilot's overhead panel, P5.

SUBTASK 35-00-00-960-005

- (2) Make sure there are sufficient portable oxygen units for each passenger with an additional 10% or more.

NOTE: The number of additional temporary portable oxygen units that are required to be brought into the airplane for flight dispatch will depend on the number of passengers to be carried for that flight.

————— **END OF TASK** —————

TASK 35-00-00-440-807

9. M MEL 35-5 (DDPG) Restoration - Passenger Oxygen System Inoperative

A. General

- (1) This task puts the airplane back to its usual condition after operation with the passenger oxygen system inoperative.

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

EFFECTIVITY
HAP ALL

35-00-00

Page 906
Feb 15/2008

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

C. Passenger Oxygen System Restoration

SUBTASK 35-00-00-810-009

(1) Do the applicable chapter 35 FIM procedure to troubleshoot the passenger oxygen system.

SUBTASK 35-00-00-440-004

(2) Remove the INOP placard from the PASS OXYGEN switch.

SUBTASK 35-00-00-810-010

(3) Remove the extra portable oxygen units installed for operation with a deactivated passenger oxygen system.

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

D633A101-HAP

35-00-00

Page 907
Feb 15/2008



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

CREW OXYGEN SYSTEM - MAINTENANCE PRACTICES

1. General

A. This procedure contains these tasks:

- (1) Bleeding the Crew Oxygen System Prior to System Maintenance or Repair.
- (2) Leak Test the Crew Oxygen System After System Maintenance or Repair.

TASK 35-12-00-800-801

2. Bleed the Crew Oxygen System Prior to System Maintenance or Repair

(Figure 201, Figure 202)

A. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)

B. Location Zones

Zone	Area
122	Forward Cargo Compartment - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

C. Prepare to Bleed the Crew Oxygen System

SUBTASK 35-12-00-910-004

- (1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-12-00-860-008

- (2) Do these steps to close the oxygen shutoff valve on the crew oxygen cylinder (Figure 201).

NOTE: The crew oxygen cylinder is behind a panel on the forward wall of the forward cargo compartment.

- (a) Remove the center bottom cargo compartment panel from the front of the forward cargo compartment.
- (b) Remove the lockwire from the shutoff valve.

CAUTION: MANUALLY CLOSE THE SHUTOFF VALVE. YOU CAN DAMAGE THE SHUTOFF VALVE IF YOU TIGHTEN THE VALVE WITH MORE THAN 25 IN-LB (2.8 N·M) OF TORQUE.

- (c) Manually close the shutoff valve (25 in-lb (2.8 N·m) maximum).

D. Bleed the Crew Oxygen System

SUBTASK 35-12-00-870-001

- (1) Do these steps to bleed the crew oxygen system (Figure 202):
 - (a) Go to the captain's oxygen stowage box (View A).
 - (b) Push and hold the RESET-TEST lever on the stowage box in the direction of the arrow.
 - (c) Push the dilution control switch on the mask/regulator assembly to 100% (View B).
 - (d) Push and hold the EMERGENCY selector switch on the mask/regulator assembly.
 - (e) Release the RESET-TEST lever and the EMERGENCY selector switch when the flow blinker on the stowage box changes from a yellow cross to all black.

EFFECTIVITY
HAP ALL

35-12-00

Page 201
Feb 15/2008

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

(f) When the flow of oxygen stops, push the dilution control switch to the N (normal) position.

SUBTASK 35-12-00-860-009

(2) Do the applicable maintenance.

_____ **END OF TASK** _____

EFFECTIVITY
HAP ALL

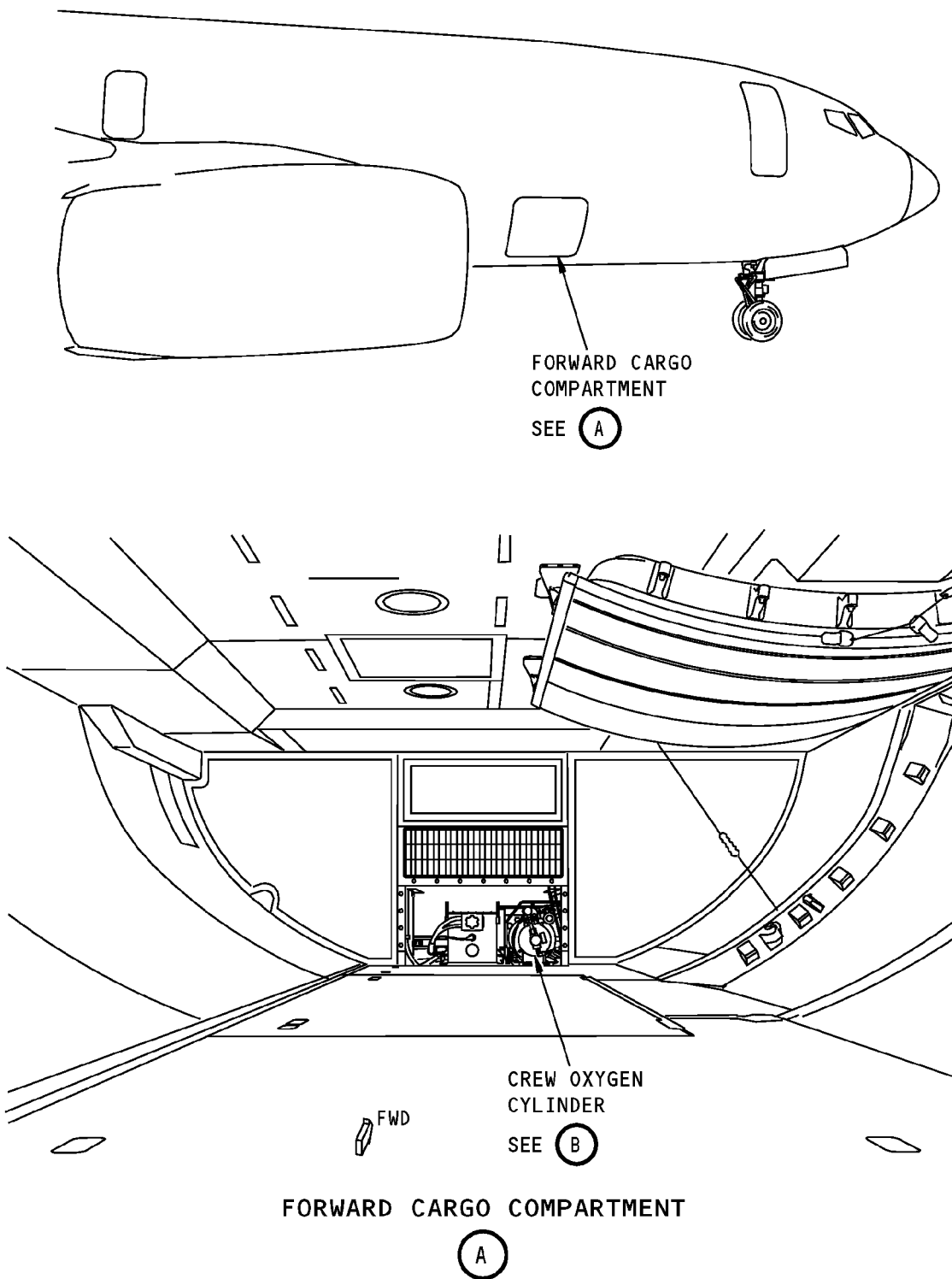
D633A101-HAP

35-12-00

Page 202
Oct 10/2003



737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL



Crew Oxygen Cylinder - Bleed System
Figure 201 (Sheet 1 of 2)/35-12-00-990-802

EFFECTIVITY
HAP ALL

35-12-00

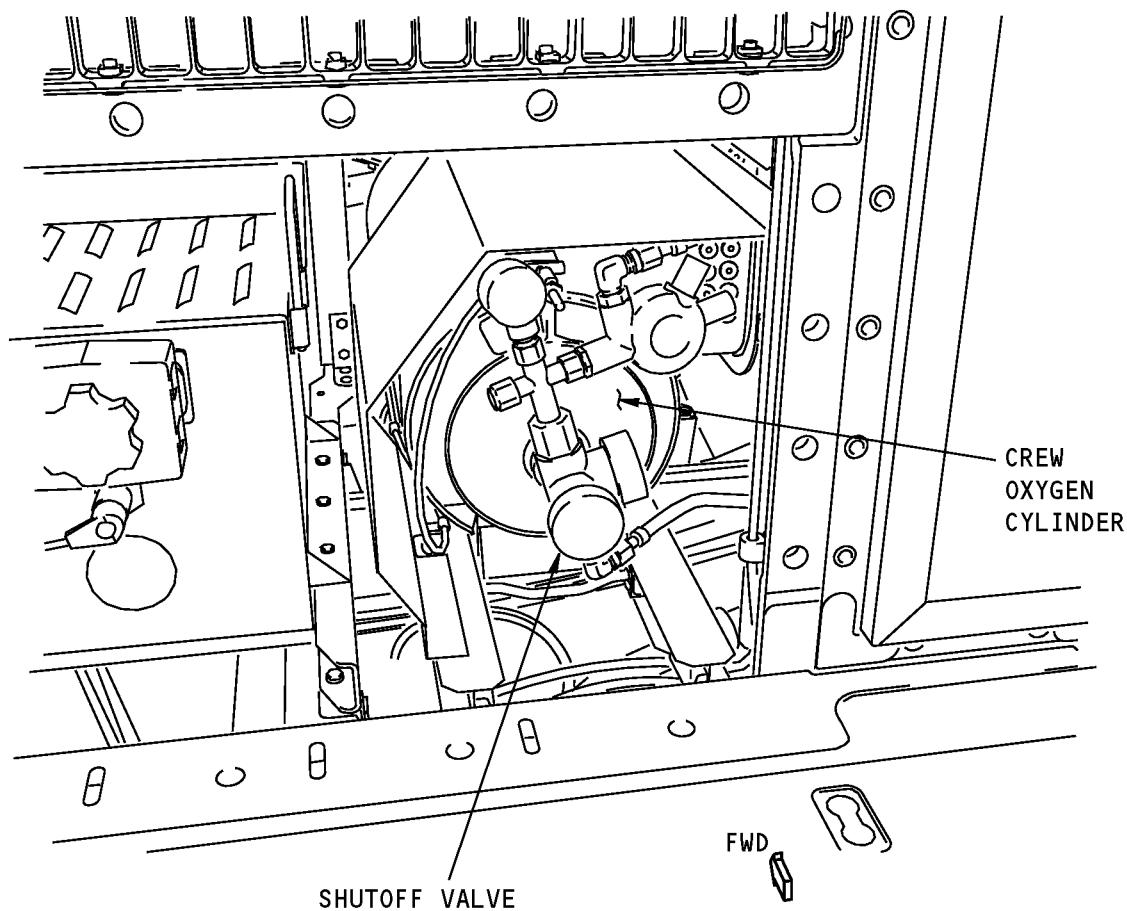
Page 203
Oct 10/2003

D633A101-HAP

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737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL



CREW OXYGEN CYLINDER

B

Crew Oxygen Cylinder - Bleed System
Figure 201 (Sheet 2 of 2)/35-12-00-990-802

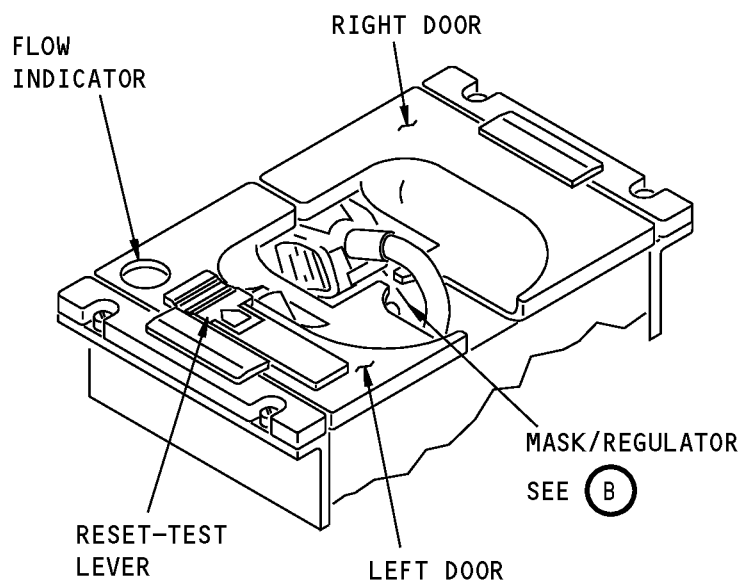
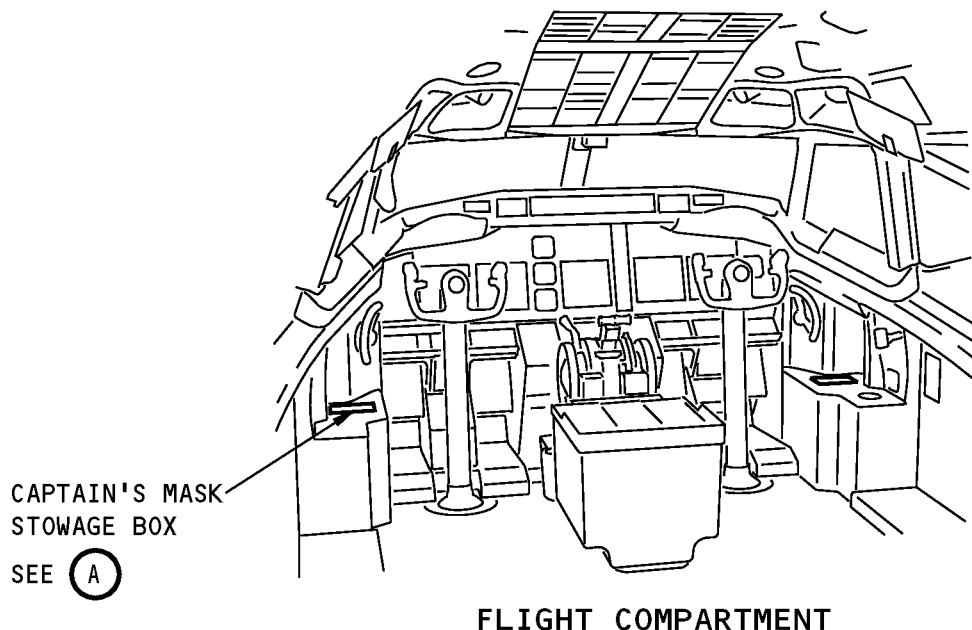
EFFECTIVITY
HAP ALL

35-12-00

Page 204
Oct 10/2003

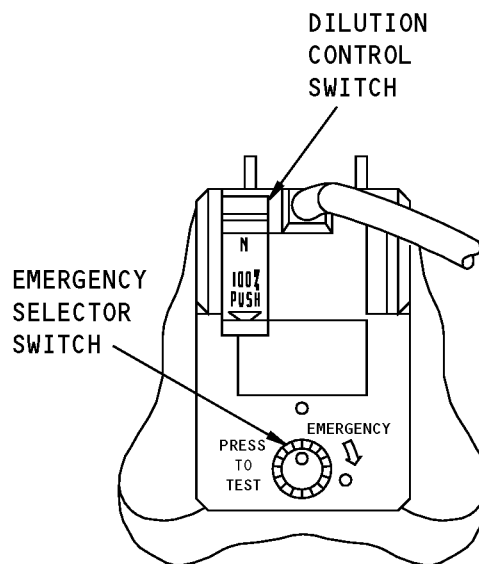
D633A101-HAP

AIRCRAFT MAINTENANCE MANUAL



CAPTAIN'S MASK STORAGE BOX

(A)



MASK/REGULATOR

(B)

**Mask Stowage Box - Bleed System
Figure 202/35-12-00-990-803**

EFFECTIVITY
HAP ALL

D633A101-HAP

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35-12-00

Page 205
Oct 10/2003



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 35-12-00-800-802

3. Leak Test the Crew Oxygen System After System Maintenance or Repair

(Figure 201)

A. References

Reference	Title
20-10-44-400-801	Lockwires Installation (P/B 401)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-12-00-710-801	Crew Oxygen Pressure Indication Operational Test (P/B 501)

B. Consumable Materials

Reference	Description	Specification
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	BMS15-5
G01912	Lockwire - Monel (0.032 In. Dia.)	NASM20995N~ C32 (QQ-N-281)
G02479	Lockwire - Copper (0.020 inch Diameter)	NASM20995~ CY20
G50306	Compound - Leak Detection, Oxygen System	MIL-PRF-25567 (BAC5402)

C. Location Zones

Zone	Area
122	Forward Cargo Compartment - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

D. Pressurize the Crew Oxygen Cylinder

SUBTASK 35-12-00-910-005

- (1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-12-00-940-001

- (2) Do these steps to pressurize the crew oxygen system (Figure 201).

- (a) Go to the crew oxygen system cylinder (View A).
- (b) Make sure all of the tubes and components are tightened to the correct torque.

WARNING: OPEN THE SHUTOFF VALVE SLOWLY. IF YOU OPEN THE SHUTOFF VALVE QUICKLY, THE TEMPERATURE OF THE OXYGEN CAN INCREASE. THIS CAN CAUSE A FIRE OR AN EXPLOSION. A FIRE OR EXPLOSION CAN CAUSE INJURY TO PERSONS AND DAMAGE TO EQUIPMENT.

CAUTION: MANUALLY OPEN THE SHUTOFF VALVE. IF YOU OPEN THE SHUTOFF VALVE TOO MUCH (MORE THAN 25 IN-LB (2.8 N·M), DAMAGE TO THE VALVE CAN OCCUR.

- (c) Slowly open the shutoff valve on the oxygen cylinder with your hand until it is fully open.
- (d) Close the shutoff valve one quarter of a turn.
- (e) Do this Procedure: Crew Oxygen Cylinder - Leak Detection.

EFFECTIVITY
HAP ALL

D633A101-HAP

35-12-00

Page 206
Jun 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- 1) If there is an obvious leak, close the shutoff valve and repair the problem.

E. Crew Oxygen Cylinder - Leak Detection

SUBTASK 35-12-00-790-001

- (1) Apply the leak detection leak detection compound, G50306, to all connections that were disconnected.

SUBTASK 35-12-00-790-002

- (2) Use a mirror and a light when necessary to look at areas that are not easy to see.

SUBTASK 35-12-00-790-003

- (3) Do a check for leaks at all applicable connections (look for bubbles in the leak detection compound).

SUBTASK 35-12-00-790-004

- (4) If there is not a leak, use a clean lint free cotton wiper, G00034, to remove the leak detection leak detection compound, G50306, immediately.

SUBTASK 35-12-00-790-005

- (5) If there is a leak, do these steps:

CAUTION: MANUALLY CLOSE THE SHUTOFF VALVE. IF YOU TIGHTEN THE SHUTOFF VALVE TOO MUCH (25 IN-LB (2.8 N-M), MAXIMUM), DAMAGE TO THE VALVE CAN OCCUR.

- (a) Manually close the shutoff valve 25 in-lb (2.8 N-m) maximum.
- (b) Do this task: Bleed the Crew Oxygen System Prior to System Maintenance or Repair, TASK 35-12-00-800-801.
- (c) Tighten the connection with a leak to the correct torque value.

WARNING: OPEN THE SHUTOFF VALVE SLOWLY. YOU CAN CAUSE HIGH TEMPERATURES IN THE OXYGEN SYSTEM IF YOU OPEN THE SHUTOFF VALVE TOO QUICKLY. HIGH TEMPERATURES CAN CAUSE A FIRE OR EXPLOSION. A FIRE OR EXPLOSION CAN CAUSE INJURY TO PERSONS AND DAMAGE TO EQUIPMENT.

CAUTION: MANUALLY OPEN THE SHUTOFF VALVE. IF YOU OPEN THE SHUTOFF VALVE TOO MUCH (MORE THAN 25 IN-LB (2.8 N-M)), DAMAGE TO THE VALVE CAN OCCUR.

- (d) Slowly open the shutoff valve with your hand until it is fully open.
- (e) Check for leaks again with the leak detection leak detection compound, G50306.
- (f) If you cannot stop a leak, replace the bad component.

SUBTASK 35-12-00-420-002

- (6) After you have checked and repaired the leaks, do the subsequent procedure.

F. Lockwire the Shutoff Valve on the Crew Oxygen Cylinder

SUBTASK 35-12-00-420-003

- (1) When the oxygen system is satisfactory, do these steps to lockwire the shutoff valve in the open position, do this task: Lockwires Installation, TASK 20-10-44-400-801.

- (a) Make sure the shutoff valve is open.

NOTE: The shutoff valve on the 801307-00 steel cylinder is fully open at approximately 6.5 revolutions. The shutoff valve on the B42365-1 composite cylinder is fully open at approximately 4.25 revolutions.

EFFECTIVITY
HAP ALL

35-12-00

Page 207
Jun 15/2008

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (b) Close the shutoff valve one quarter of a turn.
- (c) Use lockwire, G01912 or lockwire, G02479 to hold the shutoff valve in the open position.
 - 1) Wrap the lockwire around the coupling assembly in a counter-clockwise direction.
 - 2) Use the double-twist method.

SUBTASK 35-12-00-710-032

- (2) Do this task: Crew Oxygen Pressure Indication Operational Test, TASK 35-12-00-710-801.

SUBTASK 35-12-00-410-002

- (3) Install the center bottom cargo compartment panel to the front of the cargo compartment.

SUBTASK 35-12-00-410-003

- (4) Install the bottom cargo compartment panel to the front of the cargo compartment.

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

D633A101-HAP

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35-12-00

Page 208
Jun 15/2008



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

CREW OXYGEN SYSTEM - ADJUSTMENT/TEST

1. General

- A. This procedure contains scheduled maintenance task data.
- B. This procedure has these tasks:
 - (1) Crew Oxygen Stowage Box Test (Mask Stowed in Stowage Box)
 - (2) Crew Oxygen Mask-Regulator Test
 - (3) Crew Oxygen Pressure Indication Operational Test.

TASK 35-12-00-700-801

2. Crew Oxygen Stowage Box Test (Mask Stowed in Stowage Box)

(Figure 501 or Figure 502 or Figure 503)

A. General

- (1) This test checks the mask-regulator stowed in the mask stowage box (in-situ).
- (2) The mask-regulators must be stowed in the mask stowage boxes to do this test.
- (3) This test uses oxygen supplied from the crew oxygen cylinder.
- (4) To help you hear the flow of oxygen in the mask, set up the interphone communication speakers, do this task: Flight Interphone System - Operational Test, TASK 23-51-00-710-801.

NOTE: The oxygen mask microphone will let you to hear the sound of the oxygen flow through the flight interphone speakers.

B. References

Reference	Title
23-51-00-710-801	Flight Interphone System - Operational Test (P/B 501)
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
35-00-00-910-802	Safety Precautions (P/B 201)
35-12-85-910-801	Crew Oxygen Mask Stowage (P/B 201)

C. Location Zones

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right

D. Prepare for the Test

SUBTASK 35-12-00-910-001

- (1) To read and obey the safety precautions and general instructions before you do the maintenance, do this task: Safety Precautions, TASK 35-00-00-910-802.

SUBTASK 35-12-00-860-001

- (2) Do this task: Supply Electrical Power, TASK 24-22-00-860-811.

SUBTASK 35-12-00-840-001

- (3) Make sure the shutoff valve on the crew oxygen cylinder is open and the crew oxygen supply line is pressurized.

NOTE: The crew oxygen cylinder is behind the bottom center panel on the forward wall of the forward cargo compartment.

EFFECTIVITY
HAP ALL

35-12-00

Page 501
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-12-00-840-002

- (4) Make sure the pressure indicator for the crew oxygen system shows a cylinder pressure of 150 psi (1034 kPa) to 1900 psi (13,100 kPa) (found on the aft overhead panel).

SUBTASK 35-12-00-840-003

- (5) To make sure the mask-regulator is connected and correctly stowed in the mask stowage box, do this task: Crew Oxygen Mask Stowage, TASK 35-12-85-910-801.

E. Mask Stowage Box Operational Test (AIRPLANES WITH INTERTECHNIQUE/EROS MASKS)

SUBTASK 35-12-00-710-001

- (1) Go to the applicable mask stowage box found in the flight compartment.

SUBTASK 35-12-00-710-002

- (2) Push and hold the reset-test lever, on the mask stowage box to the TEST position.

NOTE: Continue to hold the reset-test lever in the TEST position.

SUBTASK 35-12-00-710-003

- (3) Look at the flow indicator, on the oxygen stowage box.
 - (a) Make sure the flow indicator momentarily shows a yellow flow indication.
 - (b) Make sure the flow indicator goes black to show a no-flow condition.

SUBTASK 35-12-00-710-004

- (4) Momentarily push the EMERGENCY selector switch.

SUBTASK 35-12-00-710-005

- (5) Look at the flow indicator, on the oxygen stowage box.
 - (a) Make sure the flow indicator momentarily shows a yellow flow indication.
 - (b) Make sure the flow indicator goes black to show a no-flow condition.

SUBTASK 35-12-00-710-006

- (6) Make sure you can hear the flow of oxygen.

SUBTASK 35-12-00-710-007

- (7) Release the reset-test lever.

SUBTASK 35-12-00-710-008

- (8) Make sure the reset-test lever goes to the closed position.

SUBTASK 35-12-00-710-009

- (9) Open the left door on the mask stowage box.

NOTE: This step will open the shutoff valve.

SUBTASK 35-12-00-710-010

- (10) Push the N-100% control switch to 100%.

SUBTASK 35-12-00-710-011

- (11) Momentarily push the EMERGENCY selector switch.

SUBTASK 35-12-00-710-012

- (12) Make sure you can hear the flow of oxygen.

SUBTASK 35-12-00-710-013

- (13) Push the N-100% control switch to the (N) normal position.

SUBTASK 35-12-00-710-014

- (14) Close the left door on the mask stowage box.

EFFECTIVITY
HAP ALL

D633A101-HAP

35-12-00

Page 502
Feb 10/2007



737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-12-00-710-015

(15) Push the reset-test lever to reset, to set the shutoff valve again.

SUBTASK 35-12-00-710-016

(16) Do the test again for the other flight crew mask stowage boxes.

F. Put the Airplane Back to the Usual Condition

SUBTASK 35-12-00-860-002

(1) Do this task: Remove Electrical Power, TASK 24-22-00-860-812.

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

D633A101-HAP

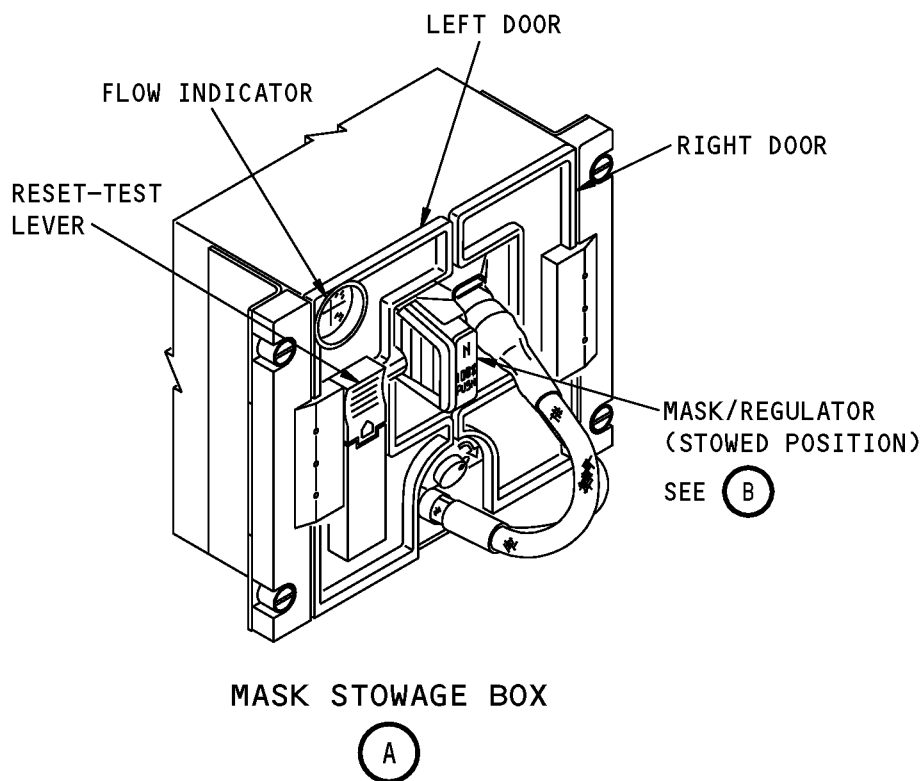
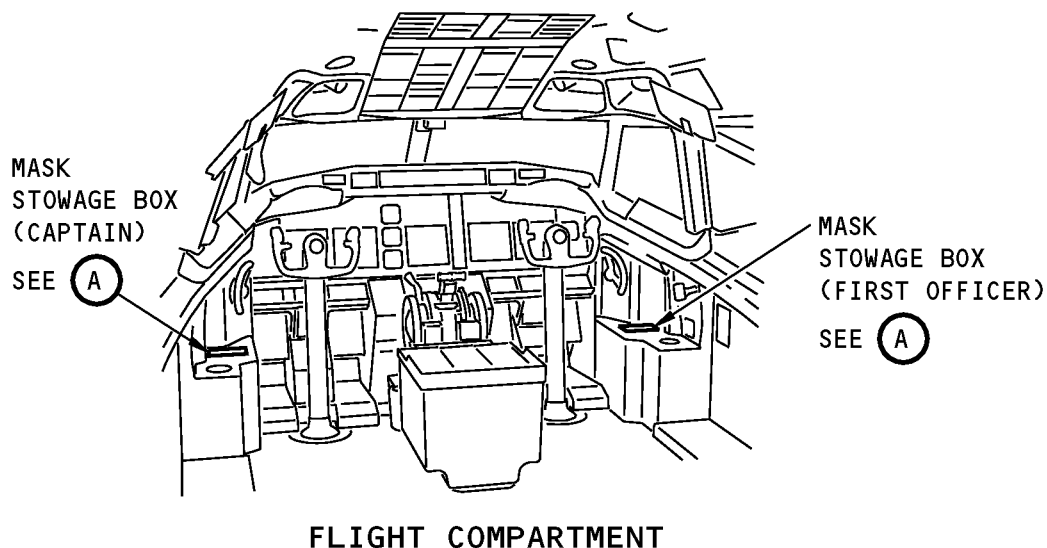
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Page 503
Oct 10/2003



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL



Flight Crew Oxygen Stowage Box, Mask/Regulator Test
Figure 501 (Sheet 1 of 2)/35-12-00-990-814

EFFECTIVITY
HAP ALL

35-12-00

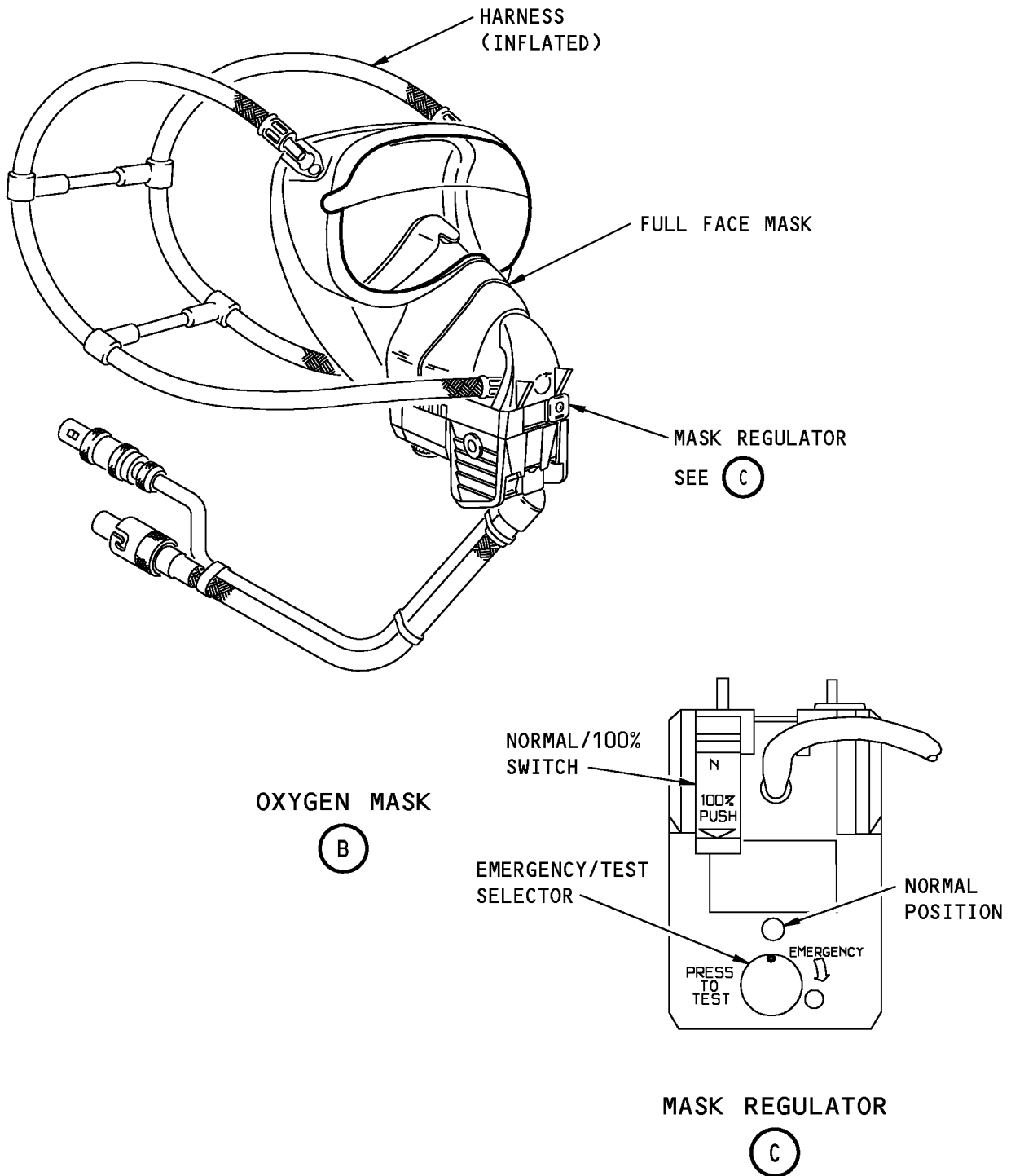
Page 504
Oct 10/2003

D633A101-HAP

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737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL



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Flight Crew Oxygen Stowage Box, Mask/Regulator Test
Figure 501 (Sheet 2 of 2)/35-12-00-990-814

EFFECTIVITY
HAP ALL

35-12-00

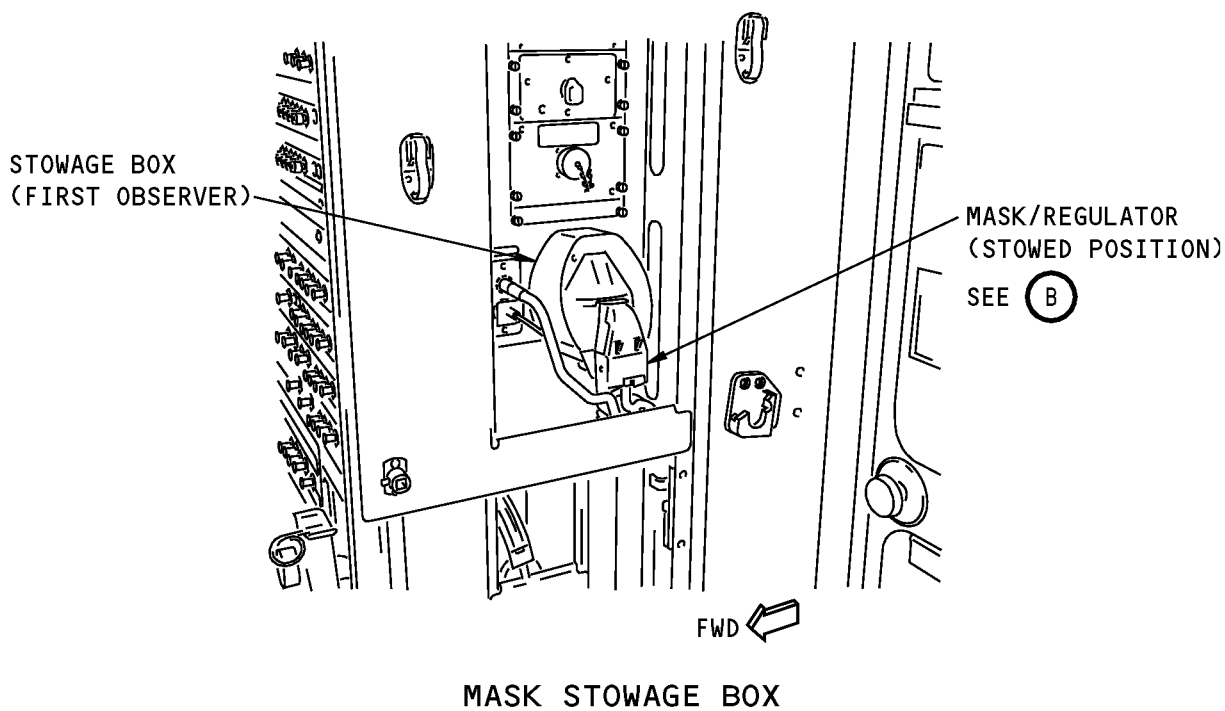
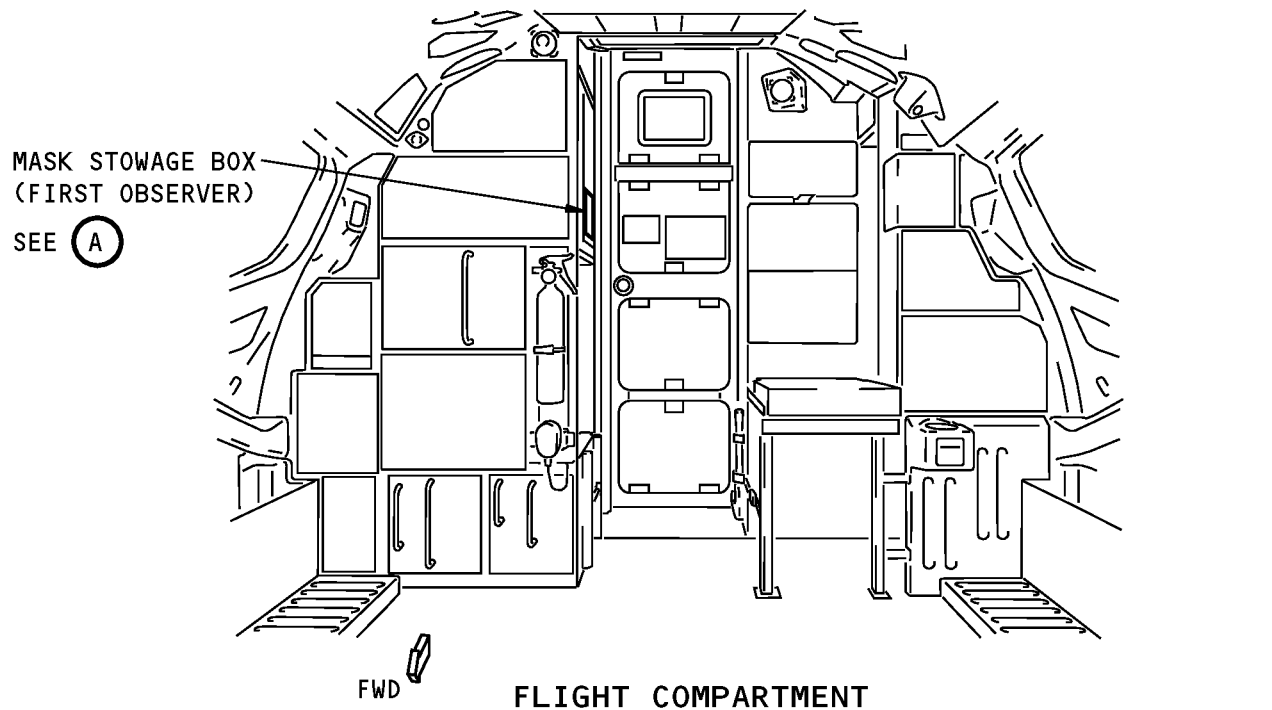
Page 505
Jun 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL



(A)

First Observer Oxygen Stowage Box, Mask/Regulator Test
Figure 502 (Sheet 1 of 2)/35-12-00-990-815

EFFECTIVITY
HAP ALL

35-12-00

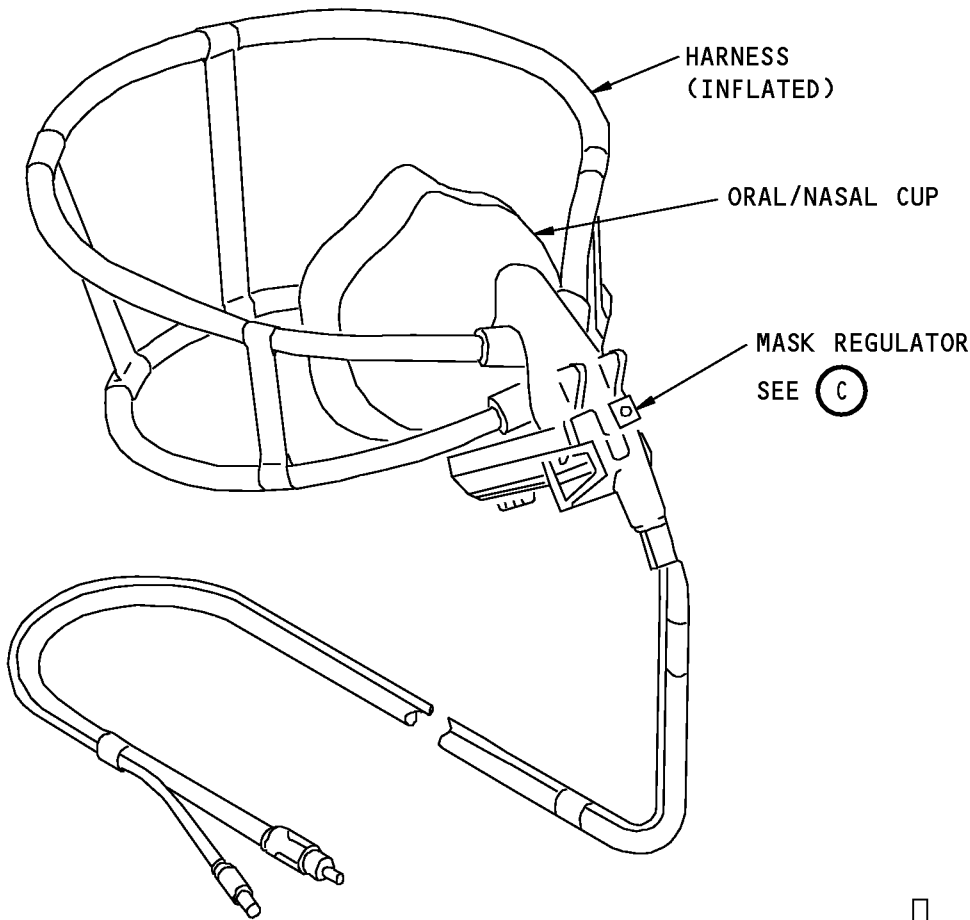
Page 506
Feb 15/2008

D633A101-HAP

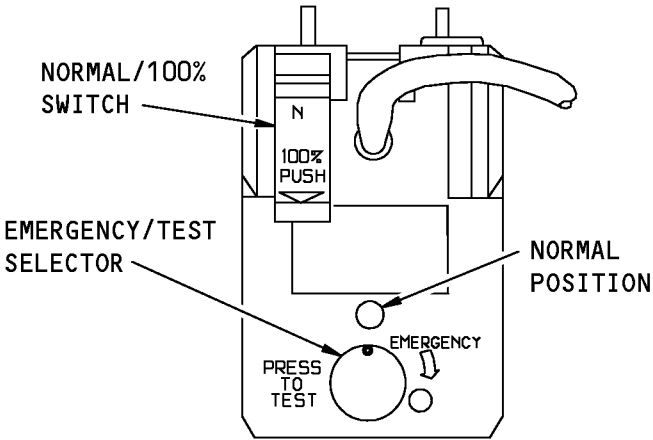
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737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL



OXYGEN MASK
(B)



MASK REGULATOR
(C)

W15760 S0006577447_V2

First Observer Oxygen Stowage Box, Mask/Regulator Test
Figure 502 (Sheet 2 of 2)/35-12-00-990-815

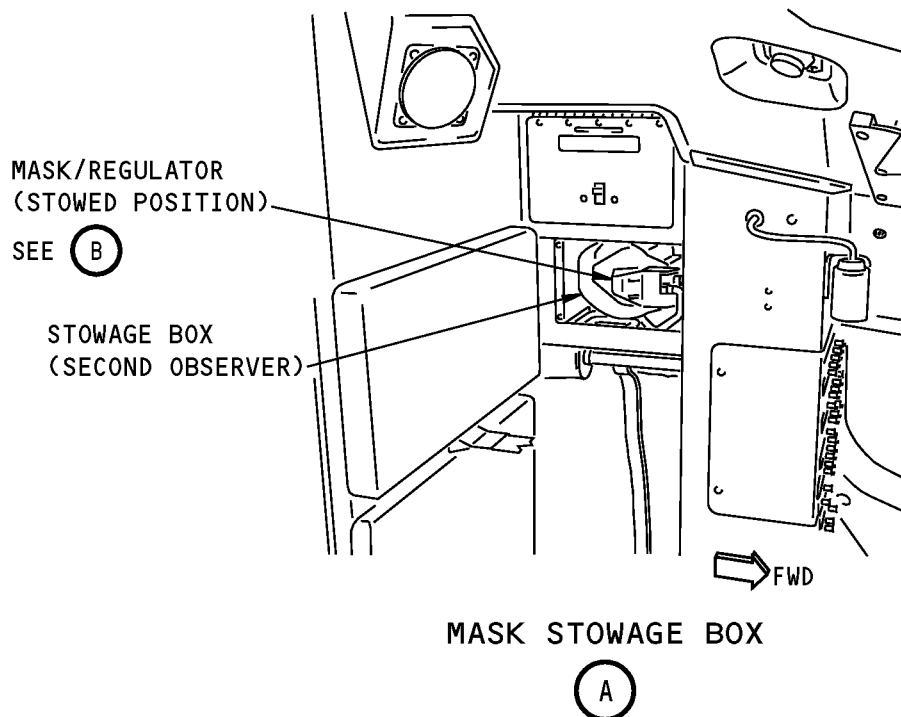
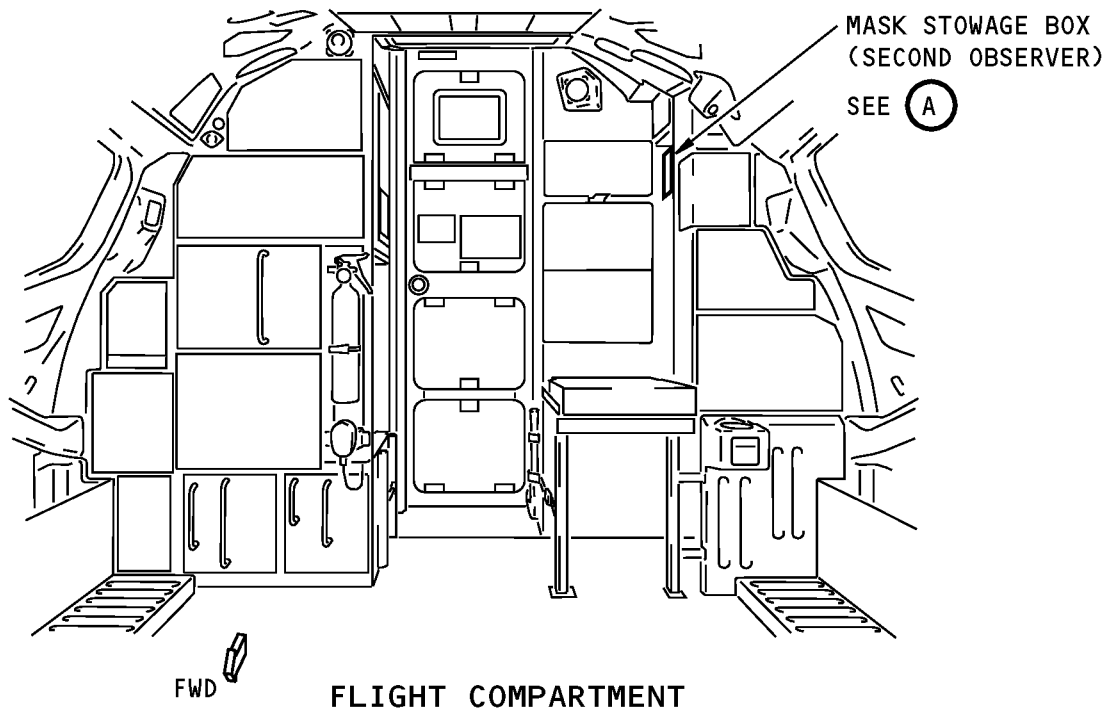
EFFECTIVITY	
HAP ALL	

35-12-00



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL



Second Observer Oxygen Stowage Box, Mask/Regulator Test
Figure 503 (Sheet 1 of 2)/35-12-00-990-813

EFFECTIVITY

HAP 001-013, 015-026, 028-030, 041, 047, 049, 050, 054

35-12-00

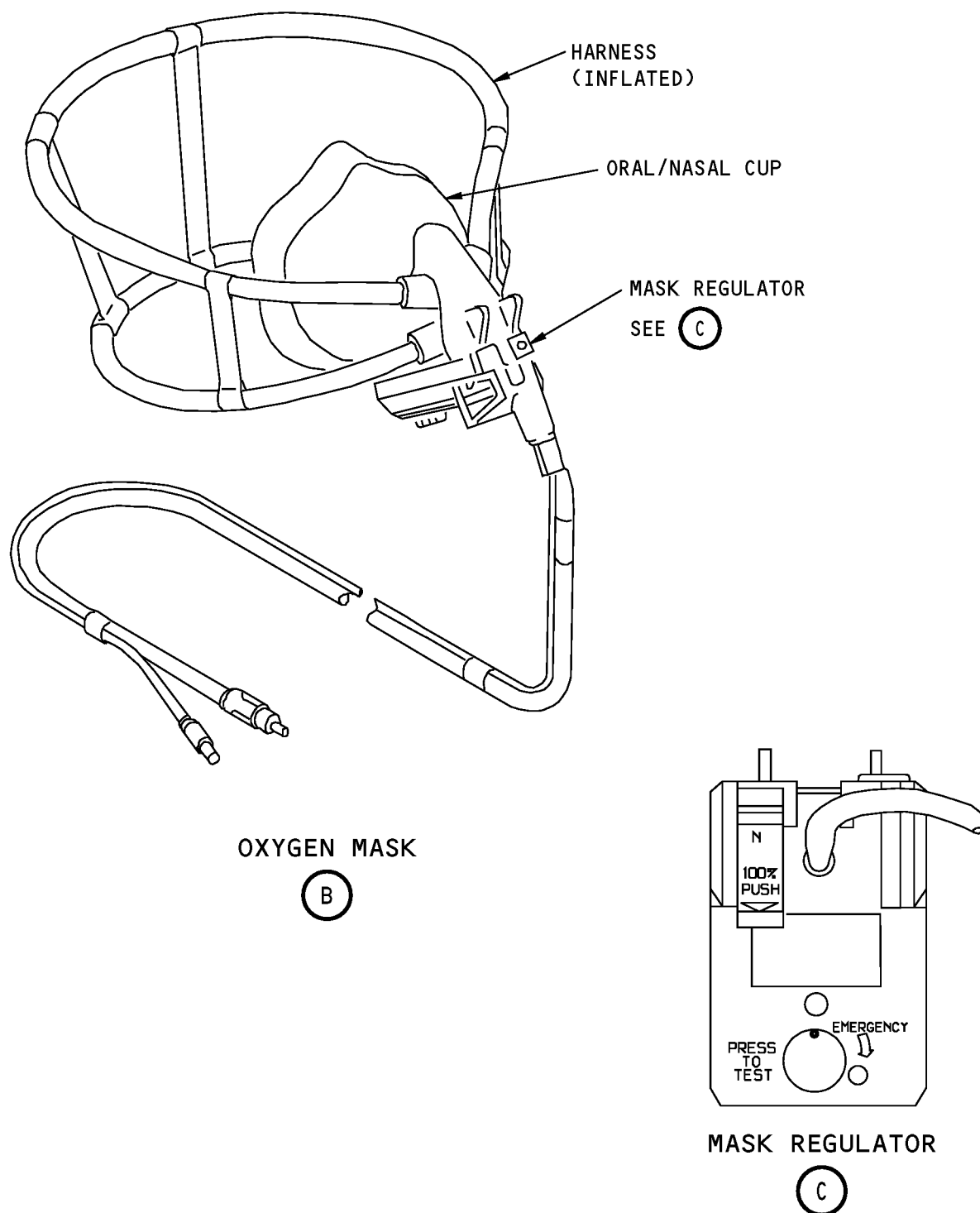
Page 508
Feb 15/2009

D633A101-HAP

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737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL



Second Observer Oxygen Stowage Box, Mask/Regulator Test
Figure 503 (Sheet 2 of 2)/35-12-00-990-813

EFFECTIVITY
HAP 001-013, 015-026, 028-030, 041, 047, 049, 050, 054

D633A101-HAP

35-12-00

Page 509
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 35-12-00-700-802

3. Crew Oxygen Mask-Regulator Test

(Figure 501 or Figure 502 or Figure 503)

A. General

- (1) This procedure is a scheduled maintenance task.
- (2) This test checks mask-regulator. The mask-regulator is removed from the mask stowage box.
- (3) This test uses oxygen supplied from the crew oxygen cylinder.

B. References

Reference	Title
23-51-00-710-801	Flight Interphone System - Operational Test (P/B 501)
24-22-00-860-811	Supply Electrical Power (P/B 201)
35-00-00-910-802	Safety Precautions (P/B 201)
35-12-85-910-801	Crew Oxygen Mask Stowage (P/B 201)

C. Location Zones

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right

D. Prepare for the Test

SUBTASK 35-12-00-910-002

- (1) To read and obey the safety precautions and general instructions before you do the maintenance, do this task: Safety Precautions, TASK 35-00-00-910-802.

SUBTASK 35-12-00-860-003

- (2) Do this task: Supply Electrical Power, TASK 24-22-00-860-811.

SUBTASK 35-12-00-860-004

- (3) Make sure that these circuit breakers are closed:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
D	22	C00086	AUDIO F/O
D	23	C00083	AUDIO CAPT
D	24	C00085	AUDIO OBS

SUBTASK 35-12-00-840-004

- (4) Make sure the shutoff valve on the crew oxygen cylinder is open and the crew oxygen supply line is pressurized.

NOTE: The crew oxygen cylinder is behind the bottom center panel on the forward wall of the forward cargo compartment.

SUBTASK 35-12-00-840-005

- (5) Make sure the pressure indicator shows a cylinder pressure of 150-1900 psig (found on the aft overhead panel).

EFFECTIVITY
HAP ALL

D633A101-HAP

35-12-00

Page 510
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-12-00-840-006

- (6) Make sure the mask-regulator is connected correctly to the mask stowage box.

E. Mask-Regulator Operational Test (AIRPLANES WITH INTERTECHNIQUE/EROS MASKS)

SUBTASK 35-12-00-010-001

- (1) Pull the mask-regulator from the stowage box.

NOTE: Do one mask-regulator at a time. Do the test again for the other flight crew mask-regulators.

SUBTASK 35-12-00-710-018

- (2) Hold the mask-regulator, and push and hold the red harness inflation levers (View B).

SUBTASK 35-12-00-710-020

- (3) Make sure that the blinker on the stowage box turns yellow and then black within a few seconds.

NOTE: This shows that the harness does not have a leak.

SUBTASK 35-12-00-710-021

- (4) Put the mask-regulator unit on your head and over your face.

NOTE: The pneumatic harness will inflate until it holds your head.

SUBTASK 35-12-00-710-022

- (5) Breathe through the mask-regulator unit with the Normal/100% switch turned to normal, and when it is at the 100% position.

SUBTASK 35-12-00-710-023

- (6) Make sure the oxygen flow indicator shows flow.

SUBTASK 35-12-00-710-024

- (7) Make sure you can breathe correctly in each switch position.

SUBTASK 35-12-00-710-025

- (8) With the lever set in the 100% position, turn the Emergency/Test Selector to the EMERGENCY position.

SUBTASK 35-12-00-710-026

- (9) Make sure you can breathe correctly.

NOTE: When the EMERGENCY position is selected a continuous oxygen flow is supplied. Breathing should be free and unrestricted.

SUBTASK 35-12-00-710-027

- (10) After three breaths, turn the selector to the NORMAL position.

SUBTASK 35-12-00-710-030

- (11) To do the communication test between each of the flight crew stations with the oxygen mask, do this task: Flight Interphone System - Operational Test, TASK 23-51-00-710-801.

SUBTASK 35-12-00-410-001

- (12) Do this task: Crew Oxygen Mask Stowage, TASK 35-12-85-910-801.

END OF TASK

TASK 35-12-00-710-801

4. Crew Oxygen Pressure Indication Operational Test

A. General

- (1) This procedure is a scheduled maintenance task.

EFFECTIVITY
HAP ALL

D633A101-HAP

BOEING PROPRIETARY - Copyright © Unpublished Work - See title page for details

35-12-00

Page 511
Jun 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (2) The pressure indication test does a visual check of the crew oxygen pressure gage in the flight compartment and the oxygen pressure gage found on the crew oxygen cylinder.

B. References

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)

C. Location Zones

Zone	Area
122	Forward Cargo Compartment - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

D. Prepare for the Procedure

SUBTASK 35-12-00-910-003

- (1) To read and obey the safety precautions and general instructions before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-12-00-860-005

- (2) Do this task: Supply Electrical Power, TASK 24-22-00-860-811.

E. Pressure Indication Test

SUBTASK 35-12-00-860-006

- (1) Make sure that this circuit breaker is closed:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND

SUBTASK 35-12-00-860-007

- (2) Make sure the crew oxygen cylinder shutoff valve is in the open position.

NOTE: The crew oxygen cylinder is behind the bottom center panel on the forward wall of the forward cargo compartment.

SUBTASK 35-12-00-710-031

- (3) Do these steps to make sure the oxygen pressure indication system is operational:

- (a) Compare the values of these pressure gages:

- 1) Crew oxygen pressure gage (flight compartment, pilot's aft overhead, P5-14 panel).
- 2) Crew oxygen cylinder pressure gage (forward cargo bay).

- (b) Make sure the pressure difference is less than 100 psi (690 kPa).

F. Put the Airplane Back to the Usual Condition

SUBTASK 35-12-00-420-001

- (1) Do this task: Remove Electrical Power, TASK 24-22-00-860-812.

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

35-12-00

Page 512
Jun 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

CREW OXYGEN SYSTEM - INSPECTION/CHECK

1. General

A. This procedure contains these task:

- (1) Crew Oxygen Operational Leak Check
- (2) Crew Oxygen System Leak Check.

B. To do the Crew Oxygen Cylinder Dispatch Pressure Check, do this task: Crew Oxygen Cylinder Dispatch Pressure Check, TASK 12-15-21-210-801-001.

TASK 35-12-00-800-803

2. Crew Oxygen Operational Leak Check

(Figure 601)

A. References

Reference	Title
20-10-44-400-801	Lockwires Installation (P/B 401)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-12-00-710-801	Crew Oxygen Pressure Indication Operational Test (P/B 501)
35-12-00-800-801	Bleed the Crew Oxygen System Prior to System Maintenance or Repair (P/B 201)

B. Consumable Materials

Reference	Description	Specification
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	BMS15-5
G01912	Lockwire - Monel (0.032 In. Dia.)	NASM20995N~ C32 (QQ-N-281)
G02479	Lockwire - Copper (0.020 inch Diameter)	NASM20995~ CY20
G50306	Compound - Leak Detection, Oxygen System	MIL-PRF-25567 (BAC5402)

C. Location Zones

Zone	Area
122	Forward Cargo Compartment - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

D. Prepare for the Leak Check

SUBTASK 35-12-00-910-006

- (1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-12-00-940-002

- (2) Do these steps to prepare the crew oxygen system for the leak check:

- (a) Make sure all crew oxygen supply lines and components are connected and tightened to the correct torque.
- (b) Remove the center bottom cargo compartment panel from the front of the cargo compartment.

EFFECTIVITY
HAP ALL

D633A101-HAP

35-12-00

Page 601
Jun 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (c) Go to the crew oxygen cylinder (View B).
- (d) Make sure the shutoff valve on the oxygen cylinder is open.
- (e) Make sure the oxygen cylinder pressure indicator is between 150 psig (1034 kPa) and 1900 psig (13,100 kPa).

E. Crew Oxygen System Leak Detection

SUBTASK 35-12-00-790-006

- (1) Apply the leak detection compound, G50306, to all connections that were disconnected or connections that you think may have a leak.

SUBTASK 35-12-00-790-007

- (2) Use a mirror and a light when necessary to look at areas that are not easy to see.

SUBTASK 35-12-00-790-008

- (3) Do a check for leaks at all applicable connections (look for bubbles in the leak detection compound).

SUBTASK 35-12-00-790-009

- (4) If there is not a leak, use a clean lint free cotton wiper, G00034, to remove the leak detection compound, G50306, immediately.

SUBTASK 35-12-00-790-010

- (5) If there is a leak, do these steps:

CAUTION: MANUALLY CLOSE THE SHUTOFF VALVE. IF YOU TIGHTEN THE SHUTOFF VALVE TOO MUCH (25 IN-LB (2.8 N·M) MAXIMUM), DAMAGE TO THE VALVE CAN OCCUR.

- (a) Manually close the shutoff valve (25 in-lb (2.8 N·m) maximum).
- (b) Do this task: Bleed the Crew Oxygen System Prior to System Maintenance or Repair, TASK 35-12-00-800-801.
- (c) Tighten the connection with a leak to the correct torque value.

WARNING: OPEN THE SHUTOFF VALVE SLOWLY. YOU CAN CAUSE HIGH TEMPERATURES IN THE OXYGEN SYSTEM IF YOU OPEN THE SHUTOFF VALVE TOO QUICKLY. HIGH TEMPERATURES CAN CAUSE A FIRE OR EXPLOSION. A FIRE OR EXPLOSION CAN CAUSE INJURY TO PERSONS AND DAMAGE TO EQUIPMENT.

CAUTION: MANUALLY OPEN THE SHUTOFF VALVE. IF YOU OPEN THE SHUTOFF VALVE TOO MUCH (25 IN-LB (2.8 N·M) MAXIMUM), DAMAGE TO THE VALVE CAN OCCUR.

- (d) Slowly open the shutoff valve with your hand until it is fully open.
- (e) Close the shutoff valve one fourth of a turn.
- (f) Check for leaks again with the leak detection compound, G50306.
- (g) If you cannot stop a leak, replace the bad component.

SUBTASK 35-12-00-420-004

- (6) After you have checked and repaired the leaks, do the subsequent procedure.

F. Lockwire the Shutoff Valve on the Crew Oxygen Cylinder

SUBTASK 35-12-00-420-005

- (1) When the oxygen system is satisfactory, to lockwire the shutoff valve in the open position, do this task: Lockwires Installation, TASK 20-10-44-400-801.

EFFECTIVITY
HAP ALL

35-12-00

Page 602
Jun 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (a) Make sure the shutoff valve is fully open.

NOTE: The shutoff valve on the 801307-00 steel cylinder is fully open at approximately 6.5 revolutions. The shutoff valve on the B42365-1 composite cylinder is fully open at approximately 4.25 revolutions.

- (b) Close the shutoff valve one forth of a turn.

- (c) Use lockwire, G01912 or lockwire, G02479 to hold the shutoff valve in the open position.

1) Wrap the lockwire around the coupling assembly in a counter-clockwise direction.

2) Use the double-twist method.

SUBTASK 35-12-00-710-033

- (2) Do this task: Crew Oxygen Pressure Indication Operational Test, TASK 35-12-00-710-801.

SUBTASK 35-12-00-410-005

- (3) Install the center bottom cargo compartment panel to the front of the cargo compartment.

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

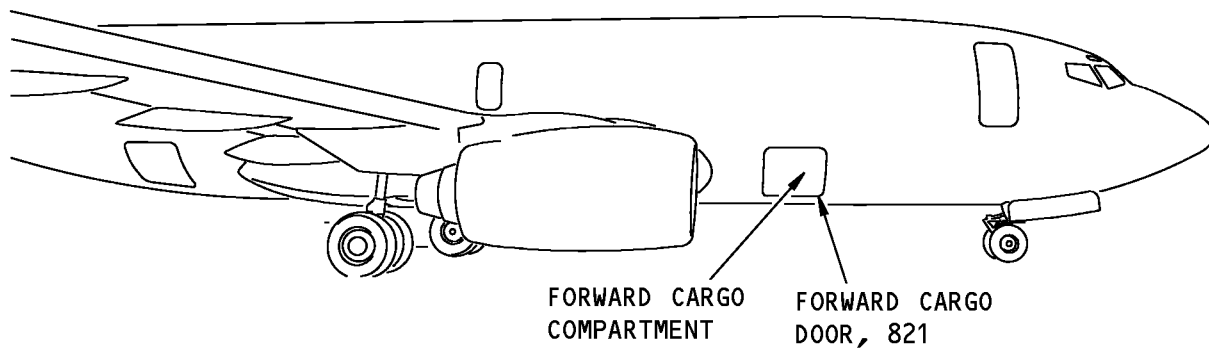
D633A101-HAP

35-12-00

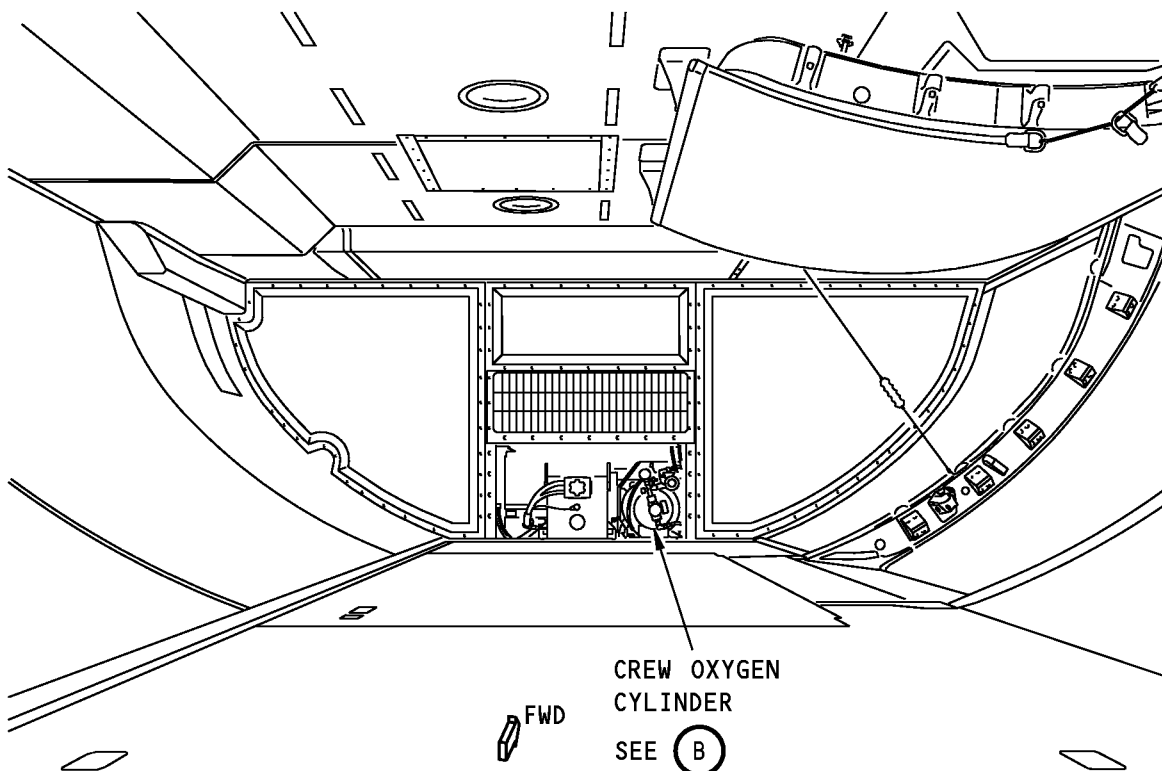
Page 603
Jun 15/2008



737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL



SEE (A)



FORWARD CARGO COMPARTMENT

(A)

G19852 S0006577460_V2

Crew Oxygen Cylinder Inspection
Figure 601 (Sheet 1 of 2)/35-12-00-990-804

EFFECTIVITY
HAP ALL

35-12-00

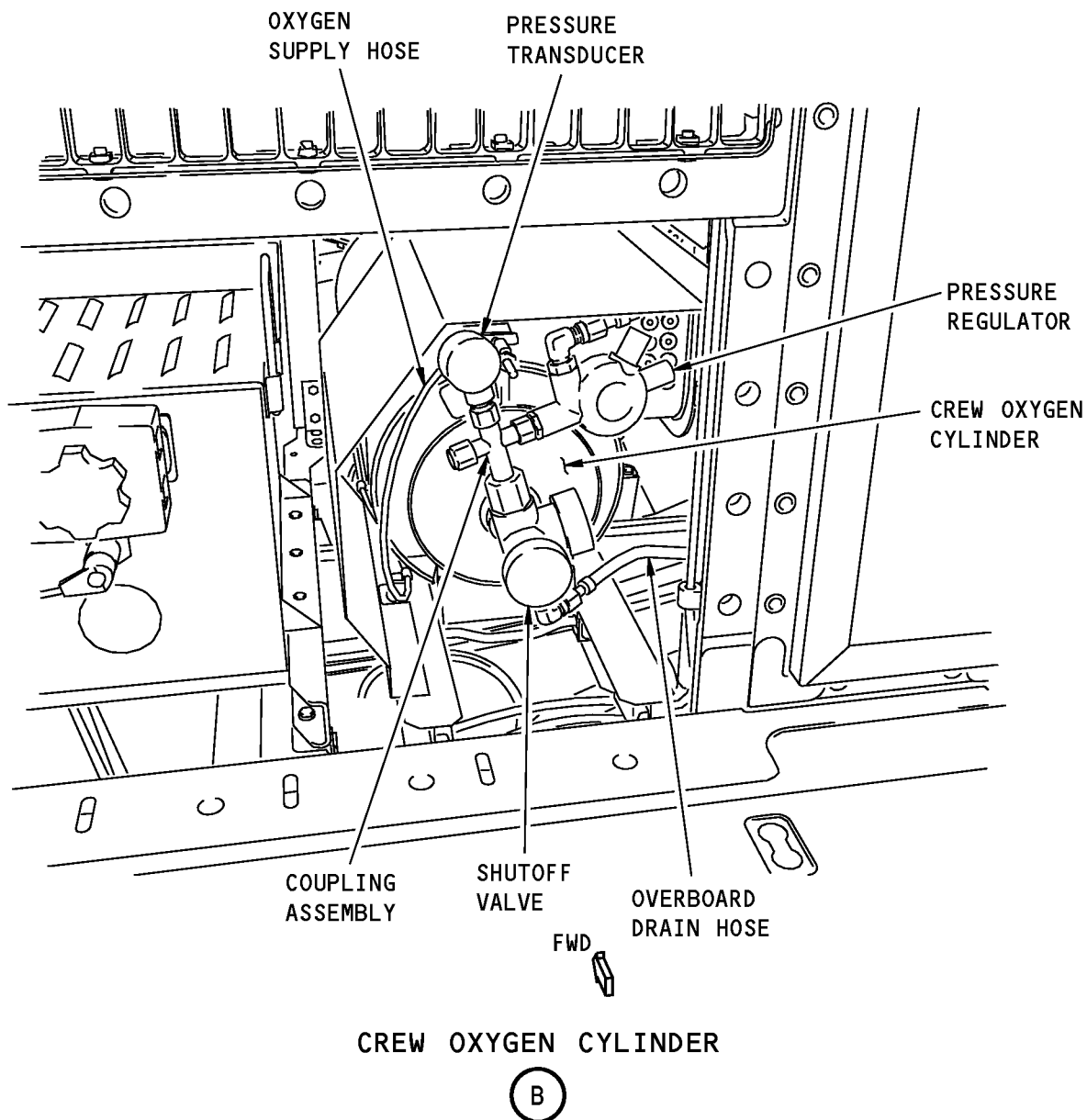
Page 604
Feb 15/2009

D633A101-HAP

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737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL



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Crew Oxygen Cylinder Inspection
Figure 601 (Sheet 2 of 2)/35-12-00-990-804

EFFECTIVITY
HAP ALL

35-12-00

Page 605
Feb 15/2009

D633A101-HAP

BOEING PROPRIETARY - Copyright © Unpublished Work - See title page for details



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 35-12-00-710-802

3. Crew Oxygen System Pressure Decay Leak Check

(Figure 602, Figure 603, Figure 604)

A. General

- (1) This task does a pressure decay leak check for the crew oxygen system. The procedure checks the crew oxygen tubing from the crew oxygen cylinder to the connection with the flight crew oxygen mask stowage boxes.
- (2) The crew oxygen system is a low pressure system. When you do this check, make sure the pressure does not exceed 100 psig (689 kPa). If you use high pressure (more than 100 psig (689 kPa) you can damage oxygen system components.
- (3) The crew oxygen system uses shutoff or check valves to stop the flow of oxygen from the oxygen system tubing to the crew oxygen mask regulators. These shutoff valves have an allowable leak rate. To do a pressure decay check of the crew oxygen system, it is necessary to cap off the oxygen tubing at the connection between the tubing and the crew oxygen stations.

B. References

Reference	Title
35-00-00-420-801	Installation of Caps on Open Oxygen Lines (P/B 201)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-12-00-800-801	Bleed the Crew Oxygen System Prior to System Maintenance or Repair (P/B 201)
35-12-00-800-802	Leak Test the Crew Oxygen System After System Maintenance or Repair (P/B 201)
35-12-85-000-801	Oxygen Mask Stowage Box Removal (P/B 401)
35-12-85-400-801	Oxygen Mask Stowage Box Installation (P/B 401)
35-12-85-910-801	Crew Oxygen Mask Stowage (P/B 201)

C. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
SPL-1934	Equipment - Test, Pressure Leak, Crew Oxygen System (Opt Part #: C35001-1, Supplier: 81205, A/P Effectivity: 737-600, -700, -700C, -700ER, -700QC, -800, -900, -900ER, -BBJ)

D. Consumable Materials

Reference	Description	Specification
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	BMS15-5
G00270	Tape - Scotch Flatback Masking 250	ASTM D6123 (Supersedes A-A-883)
G00472	Twine - Impregnated Fibrous, Lacing And Tying	MIL-T-713
G02438	Wrap - Tie - TY24M (TY-RAP)	
G50306	Compound - Leak Detection, Oxygen System	MIL-PRF-25567 (BAC5402)

EFFECTIVITY
HAP ALL

D633A101-HAP

35-12-00

Page 606
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

E. Location Zones

Zone	Area
122	Forward Cargo Compartment - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

F. Prepare for the Leak Check

SUBTASK 35-12-00-910-007

- (1) To read and obey the safety precautions and general instructions before you do the maintenance, do this task: (Oxygen System General Maintenance Practices, TASK 35-00-00-910-801).

SUBTASK 35-12-00-840-008

- (2) Make sure all of the crew oxygen supply lines and components are connected and tightened.

SUBTASK 35-12-00-840-009

- (3) Do this task: Bleed the Crew Oxygen System Prior to System Maintenance or Repair, TASK 35-12-00-800-801.

G. Pressure Check Equipment Set-up - Crew Oxygen Cylinder

(Figure 602)

SUBTASK 35-12-00-480-001

WARNING: USE ONLY OXYGEN-CLEAN COMPONENTS IN THE OXYGEN SYSTEM. IF YOU DO NOT USE OXYGEN-CLEAN COMPONENTS, A FIRE OR AN EXPLOSION CAN OCCUR. THIS CAN CAUSE DAMAGE TO EQUIPMENT OR INJURIES TO PERSONS.

- (1) Make sure all of the components are approved and cleaned specifically for use with aviation oxygen systems.

NOTE: Oxygen clean fittings come from a sealed package labeled for oxygen system installation. Make sure that you use only oxygen clean fittings. Some fittings used in the oxygen system are the same as fittings in other systems and are not oxygen clean. If it is necessary to clean parts, use the applicable oxygen procedures to clean the parts. This also applies to tube caps or plugs which must be as clean as the installation connections.

SUBTASK 35-12-00-860-010

- (2) Connect the pressure leak test equipment, SPL-1934 to the oxygen source.

SUBTASK 35-12-00-210-003

- (3) Make sure the shutoff valve on the pressure test equipment, SPL-1934 is in the closed position.

SUBTASK 35-12-00-480-002

- (4) Do these steps to connect the pressure leak test equipment, SPL-1934 at the crew oxygen cylinder:

- (a) Make sure the shutoff valve on the crew oxygen cylinder is closed.

CAUTION: USE TWO WRENCHES TO LOOSEN THE FITTINGS. USE THE SECOND WRENCH TO HOLD THE FITTING TO PREVENT DAMAGE TO THE FITTING.

- (b) Use two wrenches to slowly loosen the elbow fitting on the pressure regulator and the oxygen supply line nut (View B).

EFFECTIVITY
HAP ALL

35-12-00

Page 607
Feb 10/2007

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

CAUTION: USE TWO WRENCHES TO TIGHTEN THE FITTINGS. USE THE SECOND WRENCH TO HOLD THE FITTING TO PREVENT DAMAGE TO THE FITTING.

(c) Connect the test hose to the crew oxygen supply line.

H. Pressure Check Equipment Set-up - Flight Compartment

(Figure 603)

HAP 001-013, 015-026, 028-030, 041, 047, 049, 050, 054

NOTE: Also see Figure 605.

HAP ALL

SUBTASK 35-12-00-480-003

(1) Do these steps to install the pressure leak test equipment, SPL-1934 at the captain's and first officer's stowage boxes:

(a) Do this task: (Oxygen Mask Stowage Box Removal, TASK 35-12-85-000-801).

WARNING: USE ONLY OXYGEN-CLEAN COMPONENTS IN THE OXYGEN SYSTEM. IF YOU DO NOT USE OXYGEN-CLEAN COMPONENTS, A FIRE OR AN EXPLOSION CAN OCCUR. THIS CAN CAUSE DAMAGE TO EQUIPMENT OR INJURIES TO PERSONS.

(b) Install a cap on the open connector fitting at the bottom of each stowage box location, do this task: (Installation of Caps on Open Oxygen Lines, TASK 35-00-00-420-801).

NOTE: Oxygen clean fittings come from a sealed package labeled for oxygen system installation. Make sure that you use only oxygen clean fittings. Some fittings used in the oxygen system are the same as fittings in other systems and are not oxygen clean. If it is necessary to clean parts, use the applicable oxygen procedures to clean the parts. This also applies to tube caps or plugs which must be as clean as the installation connections.

WARNING: USE ONLY OXYGEN-CLEAN COMPONENTS IN THE OXYGEN SYSTEM. IF YOU DO NOT USE OXYGEN-CLEAN COMPONENTS, A FIRE OR AN EXPLOSION CAN OCCUR. THIS CAN CAUSE DAMAGE TO EQUIPMENT OR INJURIES TO PERSONS.

(c) Install a plug into the oxygen hose connection at each stowage box location, do this task: (Installation of Caps on Open Oxygen Lines, TASK 35-00-00-420-801).

NOTE: Oxygen clean fittings come from a sealed package labeled for oxygen system installation. Make sure that you use only oxygen clean fittings. Some fittings used in the oxygen system are the same as fittings in other systems and are not oxygen clean. If it is necessary to clean parts, use the applicable oxygen procedures to clean the parts. This also applies to tube caps or plugs which must be as clean as the installation connections.

(d) Use Scotch Flatback Masking Tape 250, G00270, twine, G00472 or TY24M (TY-RAP) tie wrap, G02438 to stop the flexible hoses in the stowage boxes from any unwanted movement (whipping) when pressure is applied to the system.

HAP 001-013, 015-026, 028-030, 041, 047, 049, 050, 054

SUBTASK 35-12-00-860-012

(2) Do these steps to install the pressure leak test equipment, SPL-1934 at the first and second observer's stowage cups:

(a) Remove the first observer's and second observer's oxygen mask stowage panels.

EFFECTIVITY
HAP ALL

35-12-00

Page 608
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

HAP 001-013, 015-026, 028-030, 041, 047, 049, 050, 054 (Continued)

- 1) Loosen the quarter-turn fasteners (4 locations) to remove the first observer's and second observer's mask stowage panels.

WARNING: USE ONLY OXYGEN-CLEAN COMPONENTS IN THE OXYGEN SYSTEM. IF YOU DO NOT USE OXYGEN-CLEAN COMPONENTS, A FIRE OR AN EXPLOSION CAN OCCUR. THIS CAN CAUSE DAMAGE TO EQUIPMENT OR INJURIES TO PERSONS.

- (b) Install a plug into the oxygen hose connection at each stowage cup, do this task: (Installation of Caps on Open Oxygen Lines, TASK 35-00-00-420-801).

NOTE: Oxygen clean fittings come from a sealed package labeled for oxygen system installation. Make sure that you use only oxygen clean fittings. Some fittings used in the oxygen system are the same as fittings in other systems and are not oxygen clean. If it is necessary to clean parts, use the applicable oxygen procedures to clean the parts. This also applies to tube caps or plugs which must be as clean as the installation connections.

WARNING: USE ONLY OXYGEN-CLEAN COMPONENTS IN THE OXYGEN SYSTEM. IF YOU DO NOT USE OXYGEN-CLEAN COMPONENTS, A FIRE OR AN EXPLOSION CAN OCCUR. THIS CAN CAUSE DAMAGE TO EQUIPMENT OR INJURIES TO PERSONS.

- (c) Install a cap on the open connector fitting at the back of each stowage cup, do this task: (Installation of Caps on Open Oxygen Lines, TASK 35-00-00-420-801).

NOTE: Oxygen clean fittings come from a sealed package labeled for oxygen system installation. Make sure that you use only oxygen clean fittings. Some fittings used in the oxygen system are the same as fittings in other systems and are not oxygen clean. If it is necessary to clean parts, use the applicable oxygen procedures to clean the parts. This also applies to tube caps or plugs which must be as clean as the installation connections.

- (d) Use Scotch Flatback Masking Tape 250, G00270, twine, G00472 or TY24M (TY-RAP) tie wrap, G02438 to stop the flexible hoses in the stowage cups from any unwanted movement (whipping) when pressure is applied to the system.

HAP ALL

SUBTASK 35-12-00-860-011

- (3) Do these steps to install the pressure leak test equipment, SPL-1934 at the first observer's stowage cup:
 - (a) Remove the first observer's oxygen mask stowage panel.
 - 1) Loosen the quarter-turn fasteners (4 locations) to remove the first observer's mask stowage panel.

EFFECTIVITY
HAP ALL

35-12-00

Page 609
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

WARNING: USE ONLY OXYGEN-CLEAN COMPONENTS IN THE OXYGEN SYSTEM. IF YOU DO NOT USE OXYGEN-CLEAN COMPONENTS, A FIRE OR AN EXPLOSION CAN OCCUR. THIS CAN CAUSE DAMAGE TO EQUIPMENT OR INJURIES TO PERSONS.

- (b) Install a plug into the oxygen hose connection at the stowage cup, do this task: (Installation of Caps on Open Oxygen Lines, TASK 35-00-00-420-801).

NOTE: Oxygen clean fittings come from a sealed package labeled for oxygen system installation. Make sure that you use only oxygen clean fittings. Some fittings used in the oxygen system are the same as fittings in other systems and are not oxygen clean. If it is necessary to clean parts, use the applicable oxygen procedures to clean the parts. This also applies to tube caps or plugs which must be as clean as the installation connections.

WARNING: USE ONLY OXYGEN-CLEAN COMPONENTS IN THE OXYGEN SYSTEM. IF YOU DO NOT USE OXYGEN-CLEAN COMPONENTS, A FIRE OR AN EXPLOSION CAN OCCUR. THIS CAN CAUSE DAMAGE TO EQUIPMENT OR INJURIES TO PERSONS.

- (c) Install a cap on the open connector fitting at the back of the stowage cup, do this task: (Installation of Caps on Open Oxygen Lines, TASK 35-00-00-420-801).

NOTE: Oxygen clean fittings come from a sealed package labeled for oxygen system installation. Make sure that you use only oxygen clean fittings. Some fittings used in the oxygen system are the same as fittings in other systems and are not oxygen clean. If it is necessary to clean parts, use the applicable oxygen procedures to clean the parts. This also applies to tube caps or plugs which must be as clean as the installation connections.

- (d) Use Scotch Flatback Masking Tape 250, G00270, twine, G00472 or TY24M (TY-RAP) tie wrap, G02438 to stop the flexible hoses in the stowage cups from any unwanted movement (whipping) when pressure is applied to the system.

I. Crew Oxygen Pressure Leak Check

SUBTASK 35-12-00-710-034

CAUTION: DO NOT APPLY MORE THAN 100 PSIG (690 KPA) PRESSURE TO THE OXYGEN SYSTEM. IF YOU APPLY MORE THAN 100 PSIG (690 KPA) PRESSURE, YOU CAN DAMAGE OXYGEN SYSTEM COMPONENTS.

- (1) Open the shutoff valve on the oxygen source, and slowly pressurize the system to a pressure between 75 and 85 psig (517 - 586 kPa).

SUBTASK 35-12-00-710-035

- (2) Continue to pressurize the system for one minute.

SUBTASK 35-12-00-710-036

- (3) Close the shutoff valve on the oxygen source.

SUBTASK 35-12-00-210-001

- (4) Monitor the pressure for a minimum of 30 minutes.

SUBTASK 35-12-00-970-001

- (5) Make sure the pressure does not decrease by more than 0.75 psi (5 kPa) during the 30 minute time period.

SUBTASK 35-12-00-360-002

- (6) If the leakage is less than 0.75 psi (5 kPa), the system is satisfactory.

EFFECTIVITY
HAP ALL

D633A101-HAP

35-12-00

Page 610
Oct 15/2008



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-12-00-360-001

- (7) If the leakage is more than 0.75 psi (5 kPa), find the leak source(s) and repair the leak (Crew Oxygen Operational Leak Check, TASK 35-12-00-800-803).
 - (a) Use the leak detection compound, G50306, if it is necessary to help find the leak.
 - 1) Remove used leak detection compound, G50306 with a clean lint free cotton wiper, G00034, immediately.
 - (b) Remove the pressure from the system and repair the leak.
 - (c) Pressurize the system and monitor for leakage again until you get a leakage of less than 0.75 psi (5 kPa).

SUBTASK 35-12-00-080-001

- (8) Slowly open the connection at the oxygen source to bleed off the pressure.

J. Test Equipment Removal - Flight Compartment

(Figure 603)

HAP 001-013, 015-026, 028-030, 041, 047, 049, 050, 054

NOTE: (Figure 605)

HAP ALL

SUBTASK 35-12-00-080-002

- (1) Remove the test equipment plugs and caps from the crew oxygen stowage boxes or stowage cups.

SUBTASK 35-12-00-410-008

- (2) Do this task: (Oxygen Mask Stowage Box Installation, TASK 35-12-85-400-801).

SUBTASK 35-12-00-410-009

- (3)

HAP 031-040, 042-046, 048, 051-053, 101-999

Do these steps to install the first observer's mask stowage panel:

HAP 001-013, 015-026, 028-030, 041, 047, 049, 050, 054

Do these steps to install the first and second observer's mask stowage panels:

HAP 031-040, 042-046, 048, 051-053, 101-999

- (a) Connect the oxygen hose connection to the fitting on the oxygen mask stowage cup (View C).

HAP ALL

- (b) Connect the oxygen hose connection to the fitting on the oxygen mask stowage cup(s).

HAP 001-013, 015-026, 028-030, 041, 047, 049, 050, 054

- (c) Install the oxygen mask stowage panels at the first and second observer's station.

HAP 031-040, 042-046, 048, 051-053, 101-999

- (d) Install the oxygen mask stowage panel at the first observer's station.

HAP 001-013, 015-026, 028-030, 041, 047, 049, 050, 054

- (e) Tighten the four quarter-turn fasteners on the oxygen mask stowage panels.

EFFECTIVITY
HAP ALL

35-12-00

Page 611
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

HAP 001-013, 015-026, 028-030, 041, 047, 049, 050, 054 (Continued)

HAP 031-040, 042-046, 048, 051-053, 101-999

- (f) Tighten the four quarter-turn fasteners on the oxygen mask stowage panel.

HAP ALL

- (g) Do this task: (Crew Oxygen Mask Stowage, TASK 35-12-85-910-801).

K. Pressure Check Equipment Removal - Crew Oxygen Cylinder

(Figure 602)

SUBTASK 35-12-00-020-001

- (1) Do these steps to disconnect the pressure leak test equipment, SPL-1934 from the crew oxygen supply line.

CAUTION: USE TWO WRENCHES TO LOOSEN THE FITTINGS. USE THE SECOND WRENCH TO HOLD THE FITTING TO PREVENT DAMAGE TO THE FITTING.

- (a) Use two wrenches to disconnect the adapter on the test line from the airplane supply line nut (View B).

CAUTION: USE TWO WRENCHES TO TIGHTEN THE FITTINGS. USE THE SECOND WRENCH TO HOLD THE FITTING TO PREVENT DAMAGE TO THE FITTING.

- (b) Use two wrenches to tighten the elbow fitting on the pressure regulator and the oxygen supply line nut (View B).

- (c) Remove the pressure leak test equipment, SPL-1934 from the airplane.

SUBTASK 35-12-00-080-003

- (2) Disconnect the pressure leak test equipment, SPL-1934 from the oxygen source.

SUBTASK 35-12-00-840-010

- (3) Do this task: (Leak Test the Crew Oxygen System After System Maintenance or Repair, TASK 35-12-00-800-802).

————— END OF TASK —————

EFFECTIVITY
HAP ALL

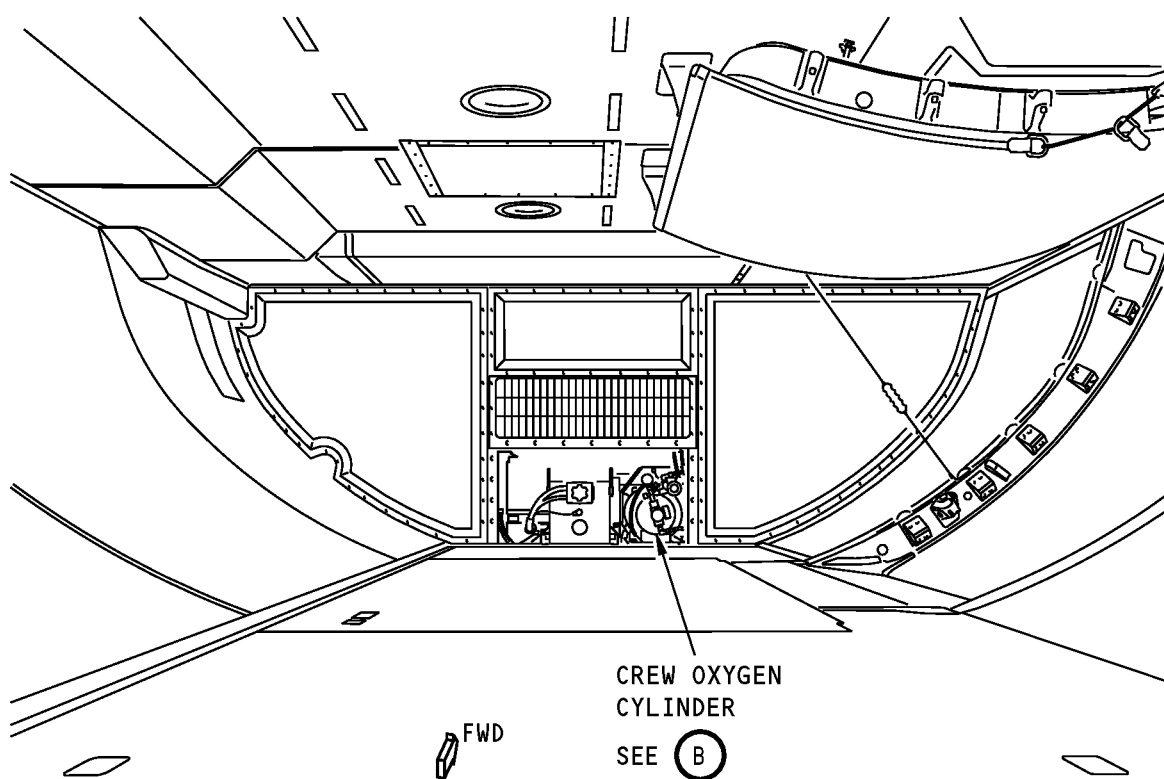
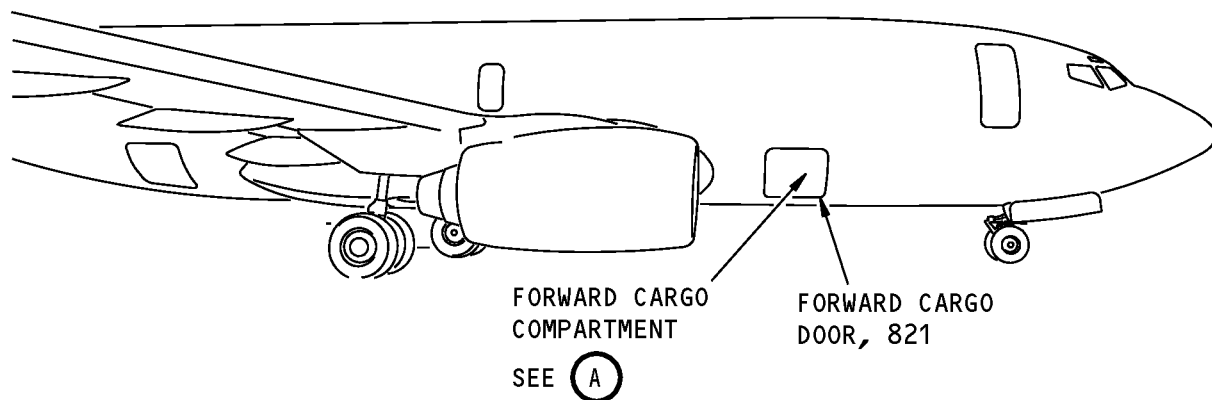
D633A101-HAP

35-12-00

Page 612
Feb 15/2009



737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL



FORWARD CARGO COMPARTMENT

(A)

Crew Oxygen Pressure Leak Check (Equipment Setup at the Oxygen Cylinder)
Figure 602 (Sheet 1 of 2)/35-12-00-990-805

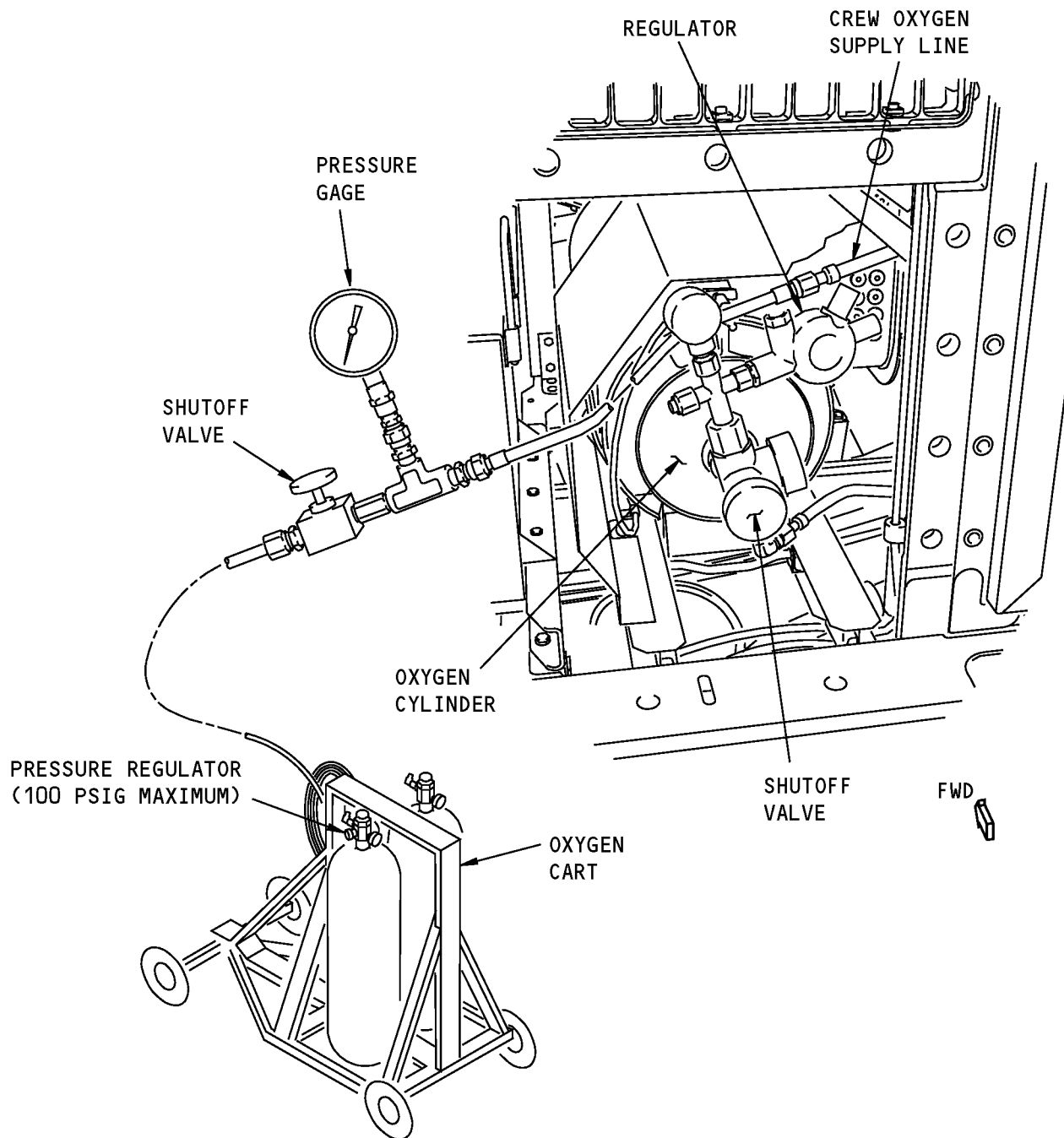
EFFECTIVITY
HAP ALL

35-12-00

Page 613
Oct 10/2005

D633A101-HAP

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CREW OXYGEN CYLINDER

(B)

Crew Oxygen Pressure Leak Check (Equipment Setup at the Oxygen Cylinder)

Figure 602 (Sheet 2 of 2)/35-12-00-990-805

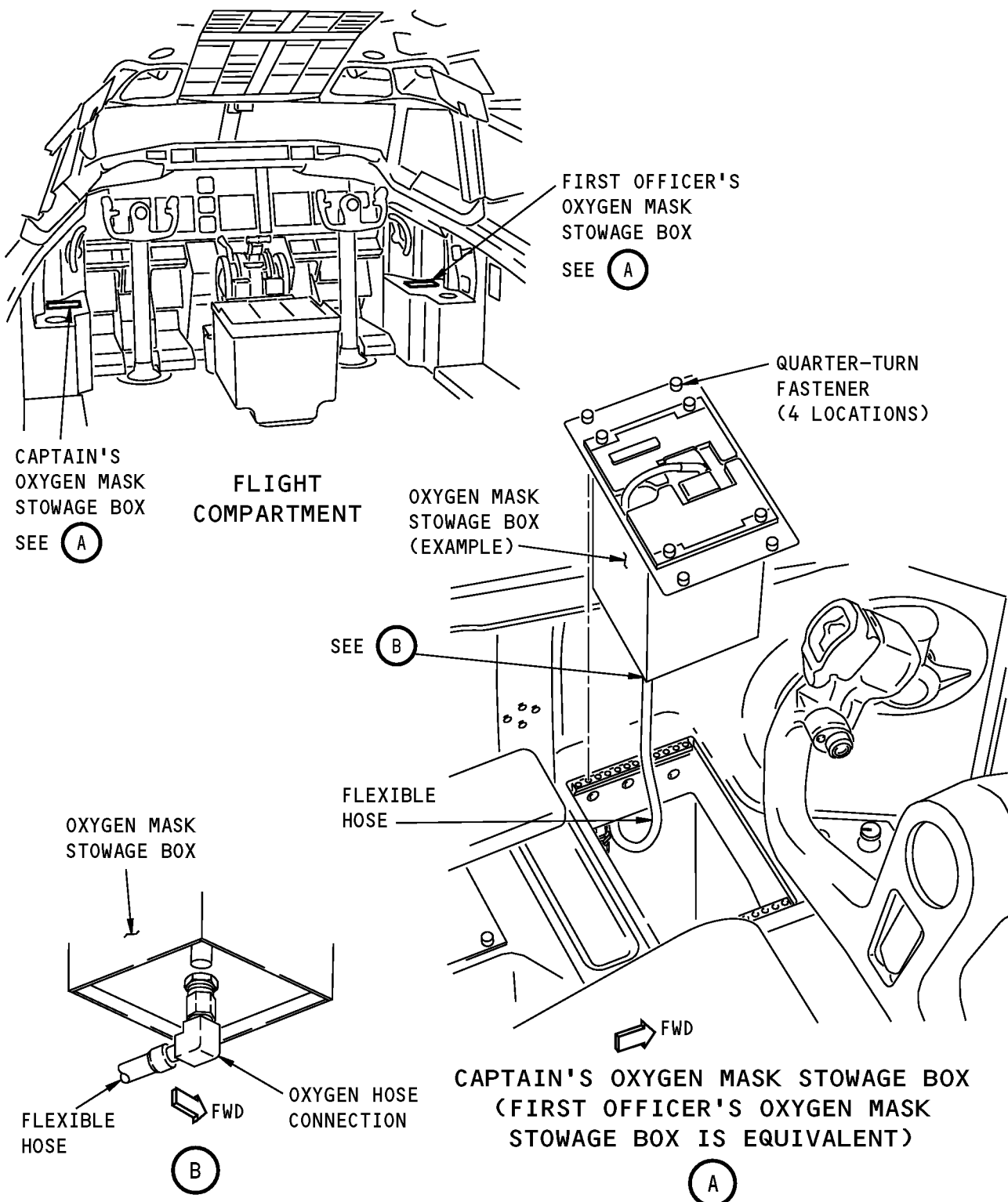
EFFECTIVITY
HAP ALL

35-12-00

Page 614
Oct 10/2005

D633A101-HAP

AIRCRAFT MAINTENANCE MANUAL



Crew Oxygen Pressure Leak Check (Equipment Setup in the Flight Compartment)

Figure 603/35-12-00-990-806

EFFECTIVITY
HAP ALL

35-12-00

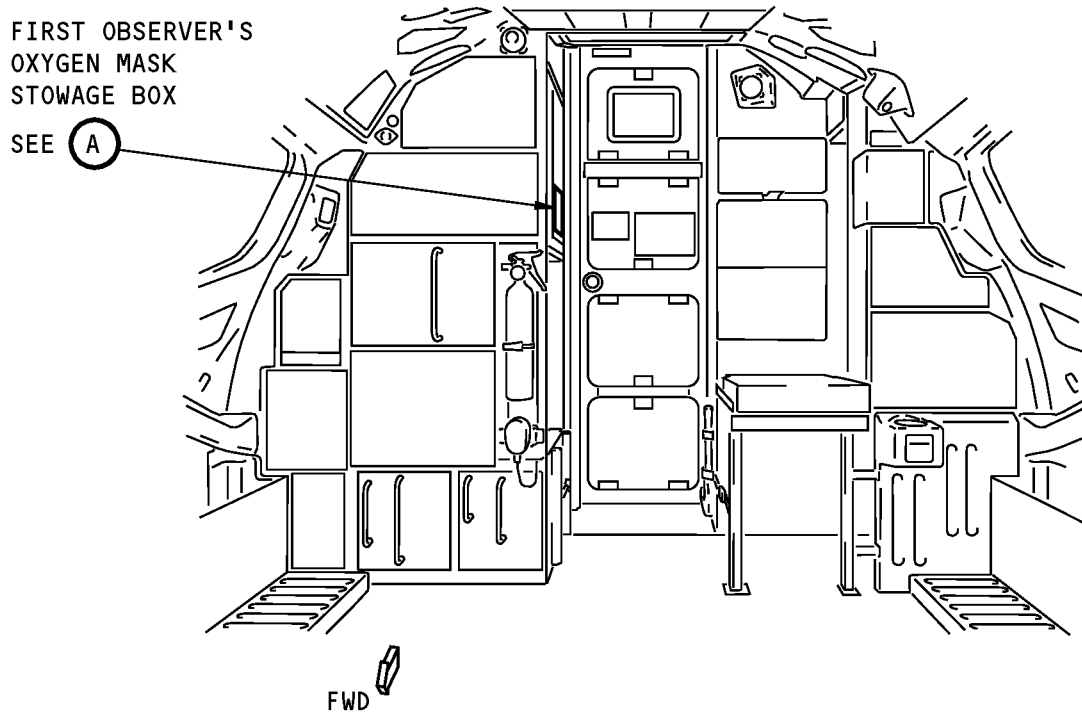
Page 615
Oct 10/2005

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL



FLIGHT COMPARTMENT

First Observer's Oxygen Pressure Leak Check
Figure 604 (Sheet 1 of 2)/35-12-00-990-811

EFFECTIVITY
HAP ALL

D633A101-HAP

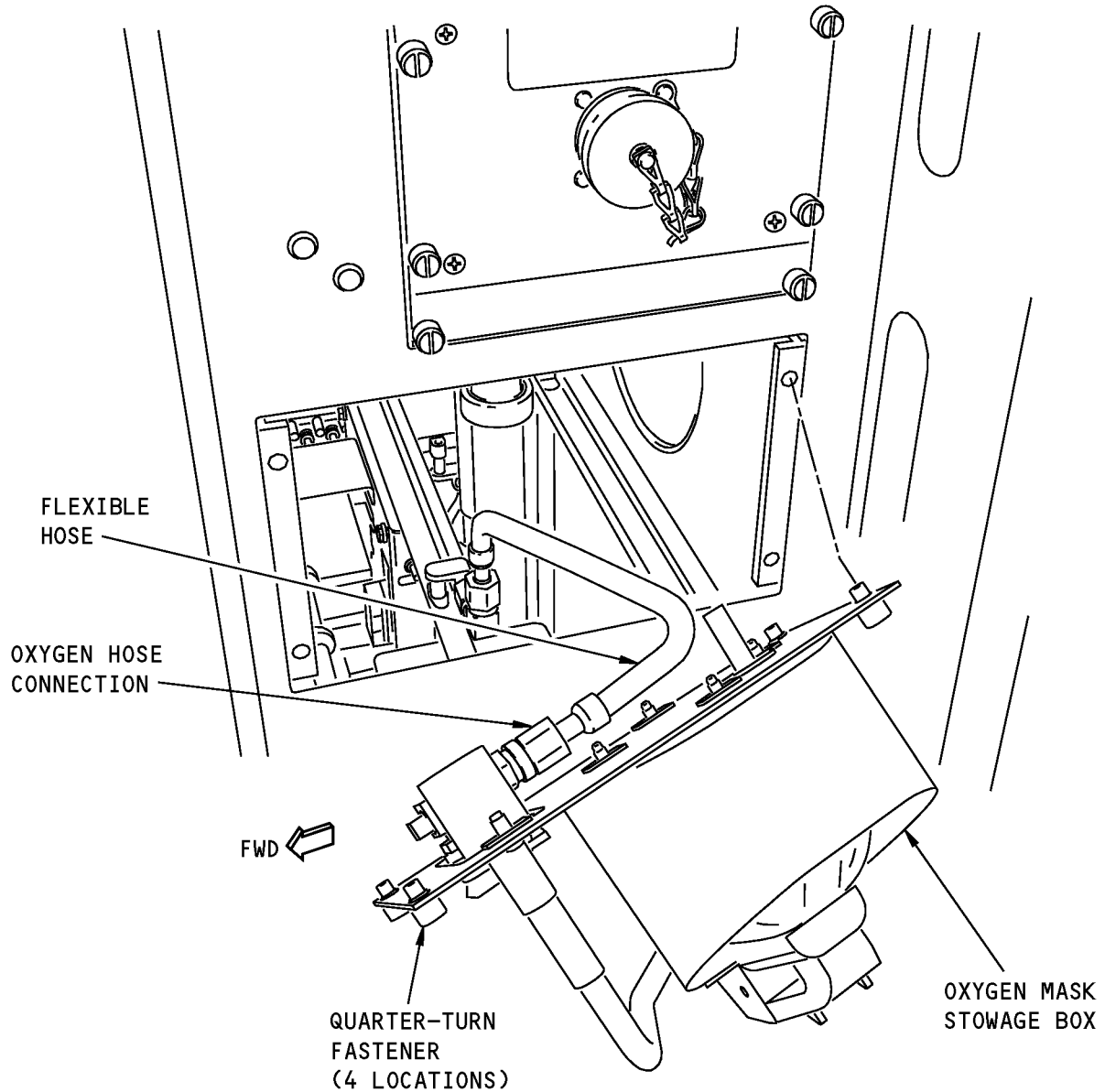
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35-12-00

Page 616
Feb 15/2008



737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL



FIRST OBSERVER'S
OXYGEN MASK STOWAGE BOX

A

First Observer's Oxygen Pressure Leak Check
Figure 604 (Sheet 2 of 2)/35-12-00-990-811

EFFECTIVITY
HAP ALL

D633A101-HAP

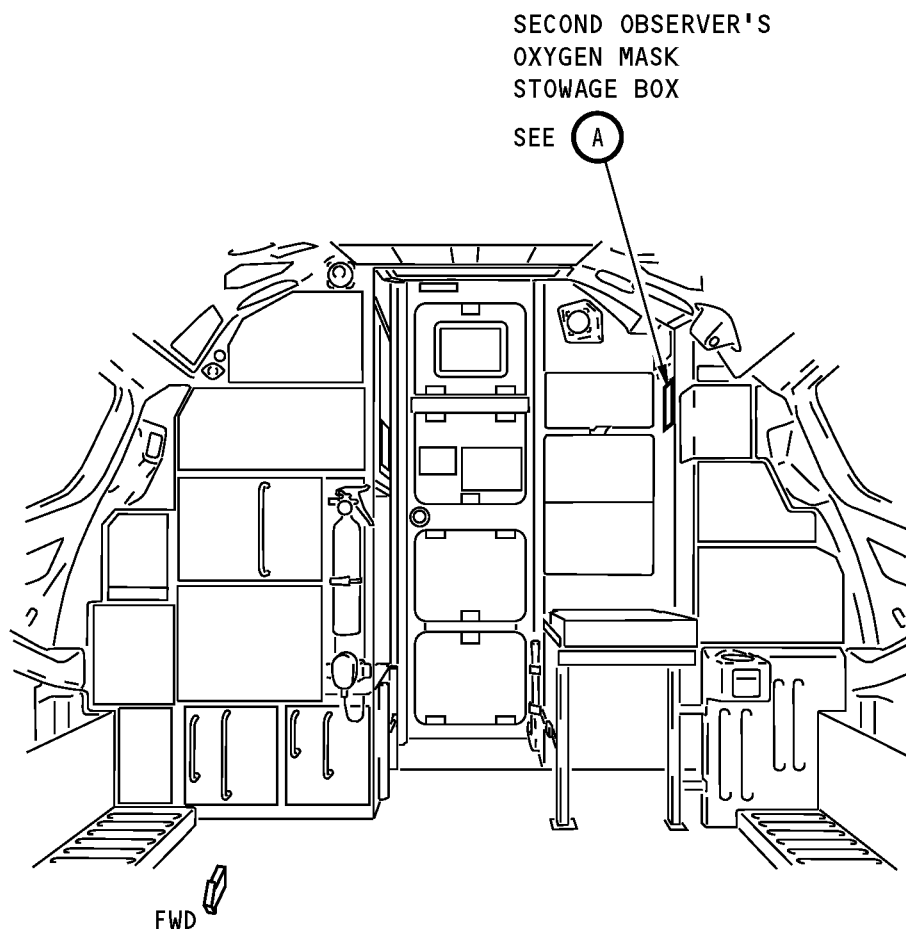
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35-12-00

Page 617
Feb 15/2008



737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL



FLIGHT COMPARTMENT

Second Observer's Oxygen Pressure Leak Check
Figure 605 (Sheet 1 of 3)/35-12-00-990-812

EFFECTIVITY

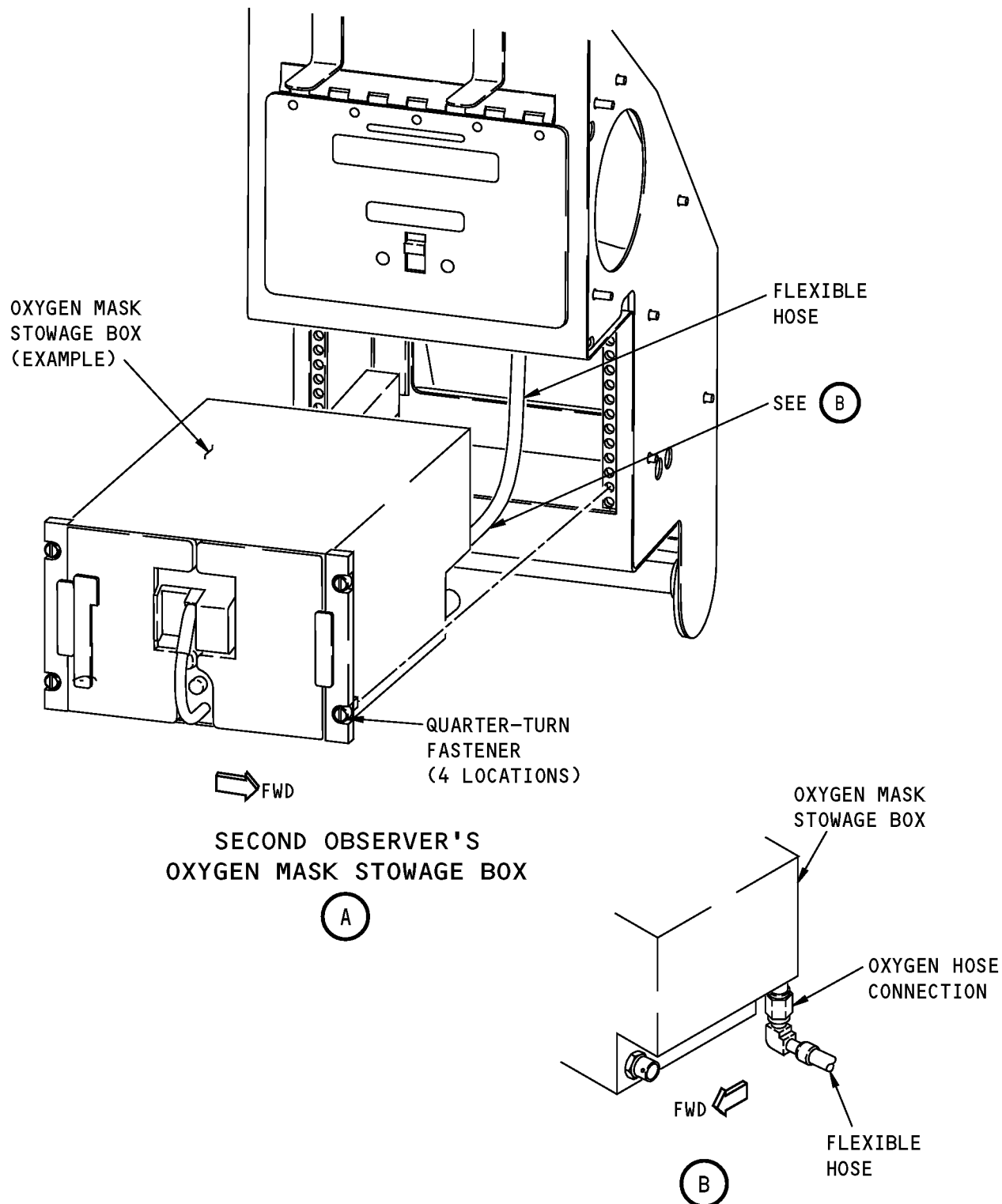
HAP 001-013, 015-026, 028-030, 041, 047, 049, 050, 054

D633A101-HAP

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35-12-00

Page 618
Feb 15/2009



Second Observer's Oxygen Pressure Leak Check
Figure 605 (Sheet 2 of 3)/35-12-00-990-812

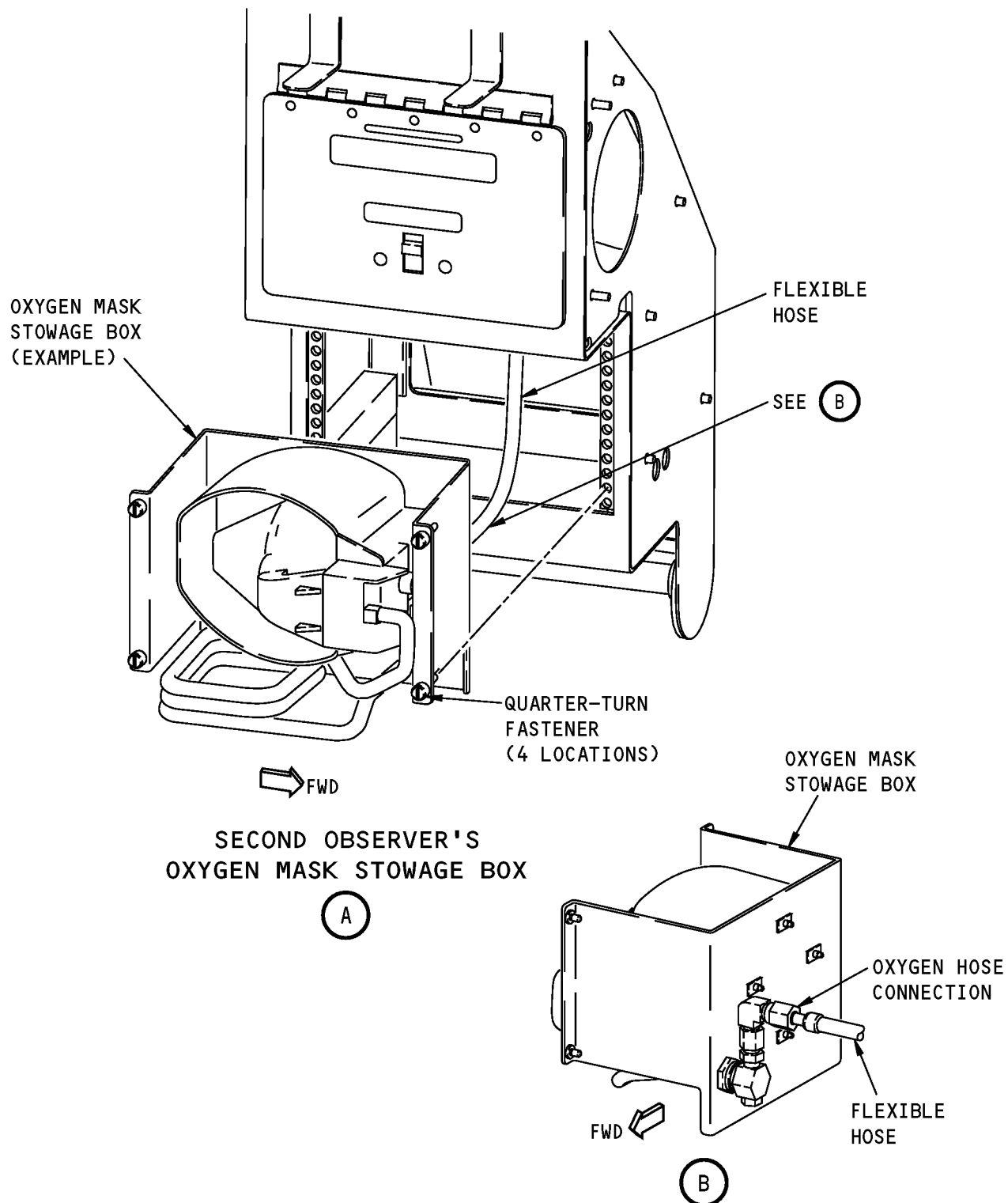
EFFECTIVITY

HAP 001-013, 015-026, 028-030, 041, 047, 049, 050, 054

D633A101-HAP

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35-12-00



Second Observer's Oxygen Pressure Leak Check
Figure 605 (Sheet 3 of 3)/35-12-00-990-812

EFFECTIVITY

HAP 001-013, 015-026, 028-030, 041, 047, 049, 050, 054



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 35-12-00-211-801

4. Crew Oxygen Cylinder Correct Installation and Condition Check

Figure 601

A. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)

B. Location Zones

Zone	Area
122	Forward Cargo Compartment - Right

C. Procedure

SUBTASK 35-12-00-910-008

- (1) Read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-12-00-010-003

- (2) Remove the center bottom cargo compartment panel from the front of the cargo compartment to get access to the crew oxygen cylinder.

SUBTASK 35-12-00-211-003

- (3) Do a check of these components to make sure they are installed correctly.
 - (a) Make sure the pressure transducer is installed tightly (a torque of 125 in-lb (14 N·m) to 150 in-lb (17 N·m)) on the coupling assembly.
 - (b) Make sure the pressure regulator is tightly installed.
 - (c) Make sure the oxygen supply hose and overboard drain hose are installed correctly
 - (d) Make sure the coupling assembly is installed correctly.
 - (e) Make sure the oxygen cylinder is correctly installed to the support brackets and straps.

SUBTASK 35-12-00-211-004

- (4) Make sure the oxygen cylinder is installed correctly.

SUBTASK 35-12-00-211-002

- (5) Do a check of the crew oxygen cylinder to make sure it is in satisfactory condition:
 - (a) Do this task to check the crew oxygen cylinder for leaks: Crew Oxygen Operational Leak Check, TASK 35-12-00-800-803.
 - (b) Make sure that the oxygen cylinder hydrostatic test date complies with the current regulations.

NOTE: The hydrostatic test date must be within the prescribed service life limit. The service life limit is established by national regulatory authorities, the cylinder manufacturer, and/or the airline.

NOTE: The last hydrostatic test date will be on a label near the top of the oxygen cylinder.

- (c) Do a check of the crew oxygen cylinder for these conditions:
 - 1) Make sure the pressure is above the minimum necessary for dispatch.
 - 2) Make sure the crew oxygen cylinder is clean.

EFFECTIVITY
HAP ALL

35-12-00

Page 621
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- 3) Make sure the crew oxygen cylinder does not have nicks, cracks, dents, cuts, or any other damage.

SUBTASK 35-12-00-410-011

- (6) Install the center bottom cargo compartment panel to the front of the cargo compartment.

END OF TASK

EFFECTIVITY
HAP ALL

D633A101-HAP

35-12-00

Page 622
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

PRESSURE REDUCING REGULATOR - REMOVAL/INSTALLATION

1. General

A. This procedure contains these tasks:

- (1) Regulator/Transducer Assembly Removal
- (2) Regulator/Transducer Assembly Installation
- (3) Regulator/Transducer Assembly Component Removal
- (4) Regulator/Transducer Assembly Component Installation.

TASK 35-12-11-000-801

2. Regulator/Transducer Assembly Removal

(Figure 401)

A. General

- (1) This task removes the regulator/transducer assembly from the crew oxygen cylinder.

B. References

Reference	Title
35-00-00-420-801	Installation of Caps on Open Oxygen Lines (P/B 201)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-12-00-800-801	Bleed the Crew Oxygen System Prior to System Maintenance or Repair (P/B 201)

C. Location Zones

Zone	Area
122	Forward Cargo Compartment - Right

D. Remove the Regulator/Transducer Assembly

SUBTASK 35-12-11-910-001

- (1) Read and obey the safety precautions and maintenance practices for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-12-11-870-001

- (2) Do this task: Bleed the Crew Oxygen System Prior to System Maintenance or Repair, TASK 35-12-00-800-801.

SUBTASK 35-12-11-860-001

- (3) Open this circuit breaker and install safety tag:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND

SUBTASK 35-12-11-010-001

- (4) Get access to the crew oxygen cylinder (View B).

SUBTASK 35-12-11-860-002

- (5) Make sure the shutoff valve is closed, and the crew oxygen supply line is not pressurized.

SUBTASK 35-12-11-020-001

- (6) Do these steps to remove the regulator/transducer assembly [1] (View B):

EFFECTIVITY
HAP ALL

35-12-11

Page 401
Feb 10/2007

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (a) Disconnect the electrical connector from the transducer [2].
- (b) Disconnect the crew oxygen supply line from the elbow [3] on the regulator/transducer assembly [1].
- (c) Loosen the coupling nut on the coupling assembly [9] that attaches the crew oxygen cylinder to the regulator/transducer assembly [1].
- (d) Remove the regulator/transducer assembly [1].

SUBTASK 35-12-11-480-001

WARNING: USE ONLY OXYGEN-CLEAN COMPONENTS IN THE OXYGEN SYSTEM. IF YOU DO NOT USE OXYGEN-CLEAN COMPONENTS, A FIRE OR AN EXPLOSION CAN OCCUR. THIS CAN CAUSE DAMAGE TO EQUIPMENT OR INJURIES TO PERSONS.

- (7) If the installation of the assembly will not occur within 5 minutes, do this task: Installation of Caps on Open Oxygen Lines, TASK 35-00-00-420-801.

NOTE: Oxygen clean fittings come from a sealed package labeled for oxygen system installation. Make sure that you use only oxygen clean fittings. Some fittings used in the oxygen system are the same as fittings in other systems and are not oxygen clean. If it is necessary to clean parts, use the applicable oxygen procedures to clean the parts. This also applies to tube caps or plugs which must be as clean as the installation connections.

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

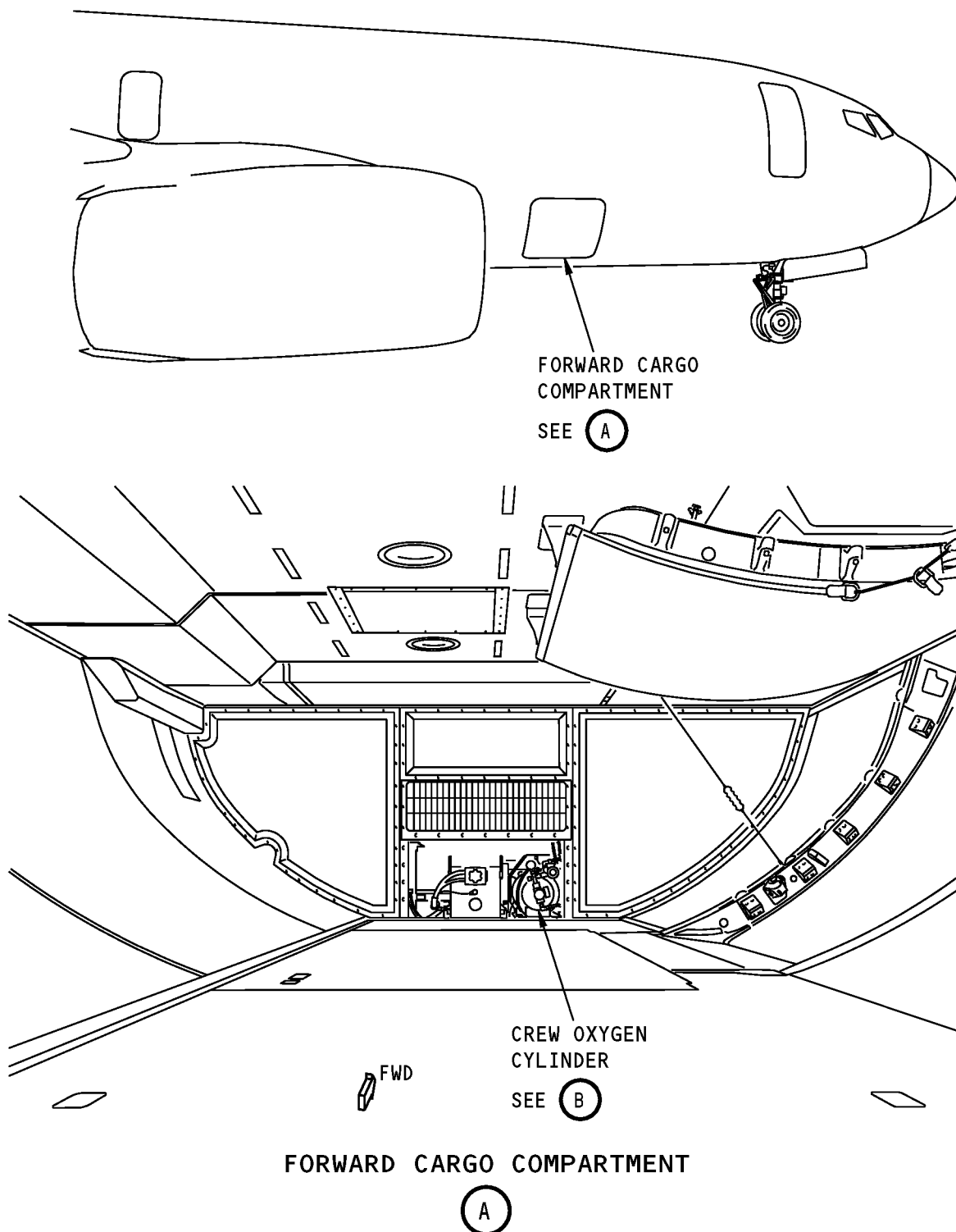
35-12-11

Page 402
Feb 10/2007

D633A101-HAP



737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL



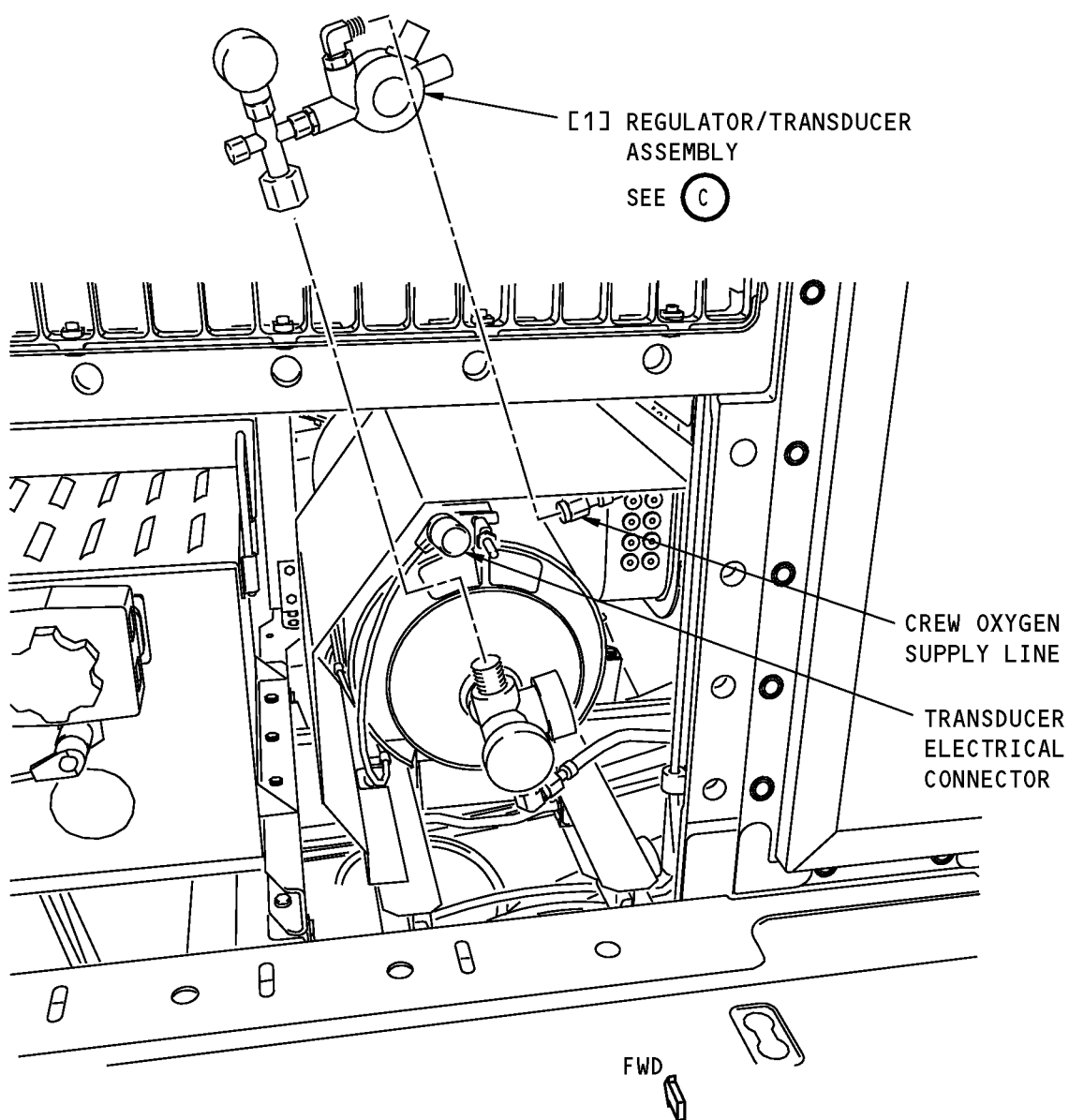
Pressure Reducing Regulator Installation
Figure 401 (Sheet 1 of 3)/35-12-11-990-801

EFFECTIVITY
HAP ALL

35-12-11

Page 403
Oct 10/2003

D633A101-HAP



CREW OXYGEN CYLINDER

(B)

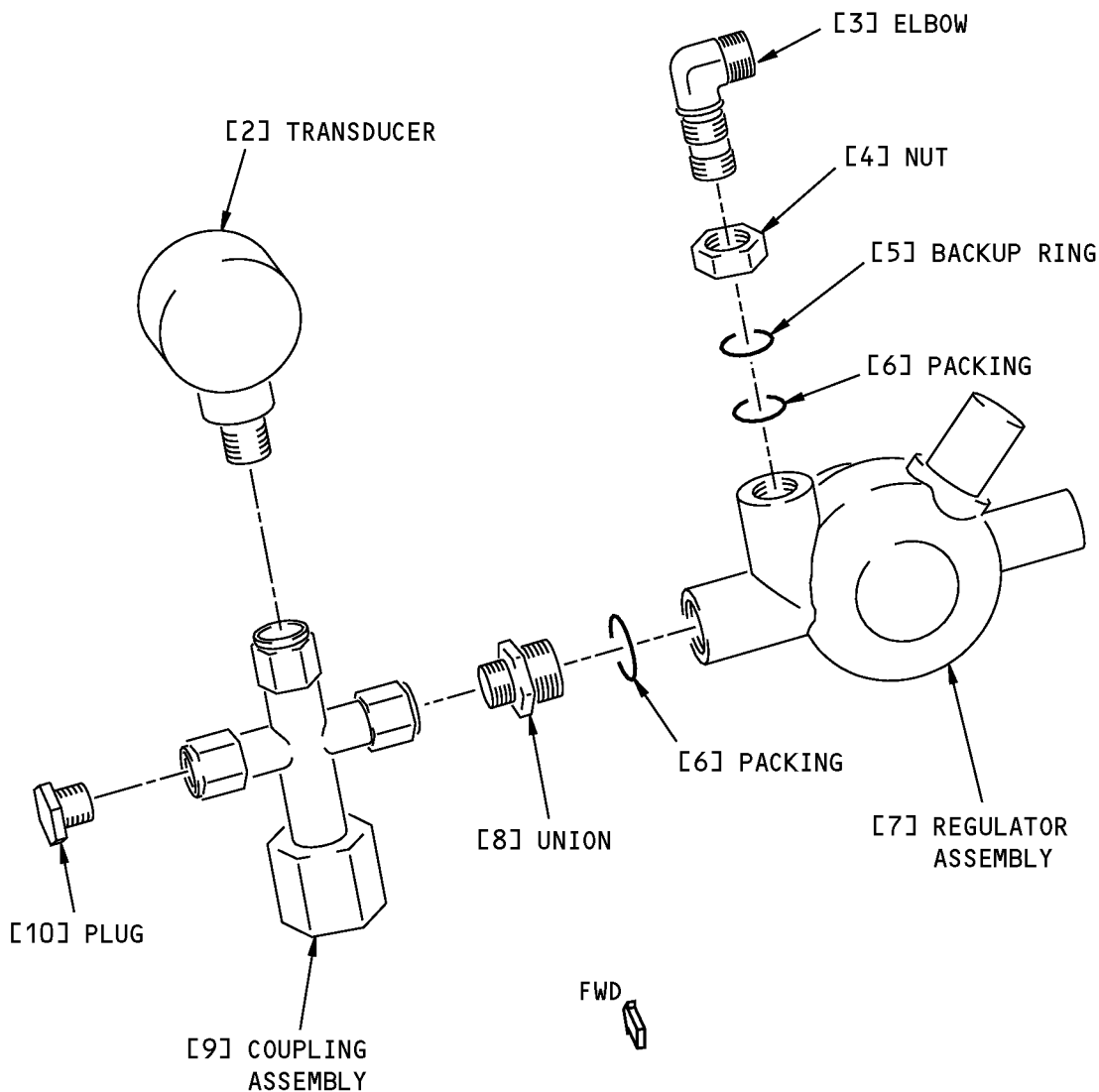
**Pressure Reducing Regulator Installation
Figure 401 (Sheet 2 of 3)/35-12-11-990-801**

EFFECTIVITY
HAP ALL

35-12-11

Page 404
Oct 10/2003

D633A101-HAP



REGULATOR/TRANSDUCER ASSEMBLY

(C)

Pressure Reducing Regulator Installation
Figure 401 (Sheet 3 of 3)/35-12-11-990-801

EFFECTIVITY
HAP ALL

35-12-11

Page 405
Oct 10/2003

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 35-12-11-400-801

3. Regulator/Transducer Assembly Installation

(Figure 401)

A. General

(1) This task installs the regulator/transducer assembly [1] to the crew oxygen cylinder.

B. References

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-12-00-800-802	Leak Test the Crew Oxygen System After System Maintenance or Repair (P/B 201)

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Transducer assembly	35-12-52-01-045	HAP 001-013, 015-026, 028-030
		35-12-52-01A-045	HAP 031-054, 101-999

D. Location Zones

Zone	Area
122	Forward Cargo Compartment - Right

E. Procedure

SUBTASK 35-12-11-910-002

(1) To read and obey the safety precautions and maintenance practices for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-12-11-410-001

(2) Go into the forward cargo compartment to get access to the crew oxygen cylinder (View A).

SUBTASK 35-12-11-420-001

WARNING: USE ONLY OXYGEN-CLEAN COMPONENTS IN THE OXYGEN SYSTEM. IF YOU DO NOT USE OXYGEN-CLEAN COMPONENTS, A FIRE OR AN EXPLOSION CAN OCCUR. THIS CAN CAUSE DAMAGE TO EQUIPMENT OR INJURIES TO PERSONS.

(3) Do these steps to install the regulator/transducer assembly [1]:

NOTE: Oxygen clean fittings come from a sealed package labeled for oxygen system installation. Make sure that you use only oxygen clean fittings. Some fittings used in the oxygen system are the same as fittings in other systems and are not oxygen clean. If it is necessary to clean parts, use the applicable oxygen procedures to clean the parts. This also applies to tube caps or plugs which must be as clean as the installation connections.

- Remove the protective caps from the crew oxygen cylinder.
- Remove the protective caps from the regulator/transducer assembly [1].
- Install the regulator/transducer assembly [1] to the supply port on the crew oxygen cylinder.

- 1) Tighten the nut of the coupling assembly [9] to 375 in-lb (42 N·m).

EFFECTIVITY
HAP ALL

D633A101-HAP

35-12-11

Page 406
Jun 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- I
- (d) Install the the crew oxygen supply line to the elbow [3] on the regulator/transducer assembly [1].
 - (e) Connect the electrical connector to the transducer [2].
- F. Do the Crew Oxygen Cylinder Restoration and a Leak Check
- SUBTASK 35-12-11-860-003
- (1) Do this task: Leak Test the Crew Oxygen System After System Maintenance or Repair, TASK 35-12-00-800-802.
- G. Do a Check of the Electrical Connection
- SUBTASK 35-12-11-280-001
- (1) Do this task: Supply Electrical Power, TASK 24-22-00-860-811.
- SUBTASK 35-12-11-860-004
- (2) Remove the safety tag and close this circuit breaker:
- CAPT Electrical System Panel, P18-3
- | <u>Row</u> | <u>Col</u> | <u>Number</u> | <u>Name</u> |
|------------|------------|---------------|-------------|
| F | 7 | C00156 | OXYGEN IND |
- SUBTASK 35-12-11-210-001
- (3) Make sure the pressure indicator on the aft overhead panel shows pressure.
- H. Put the Airplane Back to its Usual Condition
- SUBTASK 35-12-11-860-005
- (1) If it is no longer necessary, do this task: Remove Electrical Power, TASK 24-22-00-860-812.

————— **END OF TASK** —————

TASK 35-12-11-000-802

4. Regulator/Transducer Assembly Component Removal

(Figure 401)

A. General

- (1) Do this task if you need to remove one or more of these components from the regulator/transducer assembly:
 - (a) Transducer
 - (b) Coupling assembly
 - (c) Regulator assembly
 - (d) Tubing components.

B. References

<u>Reference</u>	<u>Title</u>
35-00-00-420-801	Installation of Caps on Open Oxygen Lines (P/B 201)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)

C. Location Zones

<u>Zone</u>	<u>Area</u>
122	Forward Cargo Compartment - Right

EFFECTIVITY
HAP ALL

35-12-11

Page 407
Jun 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

D. Prepare to Remove the Components

SUBTASK 35-12-11-910-003

- (1) Read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-12-11-020-002

- (2) Do this task: Regulator/Transducer Assembly Removal, TASK 35-12-11-000-801.

E. Remove the Transducer from the Regulator/Transducer Assembly

SUBTASK 35-12-11-020-005

CAUTION: DO NOT USE THE TRANSDUCER OR THE COUPLING AS A LEVER. USE A WRENCH ON THE TRANSDUCER SQUARE BOSS AND ON THE COUPLING HEX NUT. DAMAGE CAN OCCUR IF YOU DO NOT USE WRENCHES TO DISCONNECT THE COMPONENTS.

- (1) Do these steps to remove the transducer [2] from the regulator/transducer assembly [1]:
 - (a) Use a wrench to hold the coupling assembly [9].
 - (b) Use a wrench to hold the square boss on the transducer [2].
 - (c) Disconnect the transducer [2].

WARNING: USE ONLY OXYGEN-CLEAN COMPONENTS IN THE OXYGEN SYSTEM. IF YOU DO NOT USE OXYGEN-CLEAN COMPONENTS, A FIRE OR AN EXPLOSION CAN OCCUR. THIS CAN CAUSE DAMAGE TO EQUIPMENT OR INJURIES TO PERSONS.

- (d) If the installation of the assembly will not occur within 5 minutes, do this task: Installation of Caps on Open Oxygen Lines, TASK 35-00-00-420-801.

NOTE: Oxygen clean fittings come from a sealed package labeled for oxygen system installation. Make sure that you use only oxygen clean fittings. Some fittings used in the oxygen system are the same as fittings in other systems and are not oxygen clean. If it is necessary to clean parts, use the applicable oxygen procedures to clean the parts. This also applies to tube caps or plugs which must be as clean as the installation connections.

F. Remove the Coupling Assembly from the Regulator/Transducer Assembly

SUBTASK 35-12-11-020-003

CAUTION: DO NOT USE THE TRANSDUCER OR THE COUPLING AS A LEVER. DAMAGE CAN OCCUR IF YOU DO NOT USE WRENCHES TO DISCONNECT THE COMPONENTS.

- (1) Do these steps to remove the coupling assembly [9] from the regulator/transducer assembly [1]:
 - (a) Remove the transducer [2] from the coupling assembly [9].
 - (b) Remove the plug [10] from the regulator/transducer assembly [1], if necessary.
 - (c) Remove the coupling assembly [9] from the union [8] on the inlet port of the regulator assembly [7].

EFFECTIVITY
HAP ALL

35-12-11

Page 408
Feb 15/2009

D633A101-HAP

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737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

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- (d) If the installation of the assembly will not occur within 5 minutes, do this task: Installation of Caps on Open Oxygen Lines, TASK 35-00-00-420-801.

NOTE: Oxygen clean fittings come from a sealed package labeled for oxygen system installation. Make sure that you use only oxygen clean fittings. Some fittings used in the oxygen system are the same as fittings in other systems and are not oxygen clean. If it is necessary to clean parts, use the applicable oxygen procedures to clean the parts. This also applies to tube caps or plugs which must be as clean as the installation connections.

G. Remove the Regulator Assembly from the Regulator/Transducer Assembly

SUBTASK 35-12-11-000-001

CAUTION: DO NOT USE THE TRANSDUCER OR THE COUPLING AS A LEVER. USE A WRENCH ON THE REGULATOR AND ON THE COUPLING ASSEMBLY. DAMAGE CAN OCCUR IF YOU DO NOT USE WRENCHES TO DISCONNECT THE COMPONENTS.

- (1) Do these steps to remove the regulator assembly [7] from the regulator/transducer assembly [1]:
- (a) Remove the coupling assembly [9] from the union [8] on the regulator assembly [7].
 - (b) Remove the union [8] and packing [6] from the regulator assembly [7].
 - 1) Discard the packing [6].

WARNING: USE ONLY OXYGEN-CLEAN COMPONENTS IN THE OXYGEN SYSTEM. IF YOU DO NOT USE OXYGEN-CLEAN COMPONENTS, A FIRE OR AN EXPLOSION CAN OCCUR. THIS CAN CAUSE DAMAGE TO EQUIPMENT OR INJURIES TO PERSONS.

- (c) If the installation of the assembly will not occur within 5 minutes, do this task: Installation of Caps on Open Oxygen Lines, TASK 35-00-00-420-801.

NOTE: Oxygen clean fittings come from a sealed package labeled for oxygen system installation. Make sure that you use only oxygen clean fittings. Some fittings used in the oxygen system are the same as fittings in other systems and are not oxygen clean. If it is necessary to clean parts, use the applicable oxygen procedures to clean the parts. This also applies to tube caps or plugs which must be as clean as the installation connections.

H. Remove the Tubing Components on the Regulator Assembly

SUBTASK 35-12-11-020-006

- (1) Remove the elbow [3], nut [4], backup ring [5] and packing [6] from the regulator assembly [7].
- (a) Discard the packing [6].

EFFECTIVITY
HAP ALL

35-12-11

Page 409
Oct 10/2005

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-12-11-020-007

WARNING: USE ONLY OXYGEN-CLEAN COMPONENTS IN THE OXYGEN SYSTEM. IF YOU DO NOT USE OXYGEN-CLEAN COMPONENTS, A FIRE OR AN EXPLOSION CAN OCCUR. THIS CAN CAUSE DAMAGE TO EQUIPMENT OR INJURIES TO PERSONS.

- (2) If the installation of the assembly will not occur within 5 minutes, do this task: Installation of Caps on Open Oxygen Lines, TASK 35-00-00-420-801.

NOTE: Oxygen clean fittings come from a sealed package labeled for oxygen system installation. Make sure that you use only oxygen clean fittings. Some fittings used in the oxygen system are the same as fittings in other systems and are not oxygen clean. If it is necessary to clean parts, use the applicable oxygen procedures to clean the parts. This also applies to tube caps or plugs which must be as clean as the installation connections.

————— **END OF TASK** —————

TASK 35-12-11-400-802

5. Regulator/Transducer Assembly Component Installation

(Figure 401)

A. General

- (1) Do this task to install one or more of these components to form the regulator/transducer assembly:
- (a) Tubing components
 - (b) Regulator assembly
 - (c) Transducer
 - (d) Coupling assembly.

B. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)

C. Tools/Equipment

Reference	Description
STD-1130	Cap - Protective, Aluminum, Flareless Tube, BACC14AG

D. Consumable Materials

Reference	Description	Specification
D00173	Grease - Aircraft and Instrument, Fuel And Oxidizer Resistant	MIL-PRF-27617 (Supersedes MIL-G-27617)

E. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
2	Transducer	35-12-21-01-005	HAP 001-013, 015-026, 028-048, 054, 101-106
5	Ring	35-12-11-01-035	HAP 001-013, 015-026, 028-048, 054, 101-106
6	Packing	35-12-11-01-020	HAP 001-013, 015-026, 028-048, 054, 101-106

EFFECTIVITY
HAP ALL

35-12-11

D633A101-HAP

Page 410
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

(Continued)

AMM Item	Description	AIPC Reference	AIPC Effectivity
7	Regulator assembly	35-12-11-01-040	HAP 001-013, 015-026, 028-036

F. Location Zones

Zone	Area
122	Forward Cargo Compartment - Right

G. Prepare to Install the Components

SUBTASK 35-12-11-910-004

- (1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

H. Install the Tubing Components on the Regulator Assembly

SUBTASK 35-12-11-420-002

WARNING: USE ONLY OXYGEN-CLEAN COMPONENTS IN THE OXYGEN SYSTEM. IF YOU DO NOT USE OXYGEN-CLEAN COMPONENTS, A FIRE OR AN EXPLOSION CAN OCCUR. THIS CAN CAUSE DAMAGE TO EQUIPMENT OR INJURIES TO PERSONS.

CAUTION: DO NOT USE THE TRANSDUCER OR THE COUPLING AS A LEVER. DAMAGE CAN OCCUR IF WRENCHES ARE NOT USED TO CONNECT THE COMPONENTS.

- (1) Do these steps to install the union [8] on the inlet port of the regulator assembly [7]:

NOTE: Oxygen clean fittings come from a sealed package labeled for oxygen system installation. Make sure that you use only oxygen clean fittings. Some fittings used in the oxygen system are the same as fittings in other systems and are not oxygen clean. If it is necessary to clean parts, use the applicable oxygen procedures to clean the parts. This also applies to tube caps or plugs which must be as clean as the installation connections.

- (a) Remove the protective tube cap, STD-1130, if necessary.
- (b) Apply a thin layer of grease, D00173, to the packings [6].
- (c) Install the packing [6] and union [8].
- (d) Tighten the union [8] to 170 in-lb (19 N·m) - 200 in-lb (23 N·m).

SUBTASK 35-12-11-420-003

WARNING: USE ONLY OXYGEN-CLEAN COMPONENTS IN THE OXYGEN SYSTEM. IF YOU DO NOT USE OXYGEN-CLEAN COMPONENTS, A FIRE OR AN EXPLOSION CAN OCCUR. THIS CAN CAUSE DAMAGE TO EQUIPMENT OR INJURIES TO PERSONS.

CAUTION: DO NOT USE THE TRANSDUCER OR THE COUPLING AS A LEVER. DAMAGE CAN OCCUR IF WRENCHES ARE NOT USED TO CONNECT THE COMPONENTS.

- (2) Do these steps to install the elbow [3] on the outlet port of the regulator assembly [7]:

NOTE: Oxygen clean fittings come from a sealed package labeled for oxygen system installation. Make sure that you use only oxygen clean fittings. Some fittings used in the oxygen system are the same as fittings in other systems and are not oxygen clean. If it is necessary to clean parts, use the applicable oxygen procedures to clean the parts. This also applies to tube caps or plugs which must be as clean as the installation connections.

EFFECTIVITY
HAP ALL

35-12-11

D633A101-HAP

Page 411
Oct 15/2008



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (a) Remove the protective tube cap, STD-1130, if necessary.
- (b) Install the nut [4] on the elbow [3].
- (c) Make sure that the threads of the nut [4] engage the second set of threads against the shoulder on the elbow [3].
- (d) Install the backup ring [5] on the elbow [3].
- (e) Apply a thin layer of grease, D00173, to the packing [6].
- (f) Install the packing [6].
- (g) Install the elbow [3] on the regulator assembly [7] so that it turns freely.
- (h) Make sure the elbow [3] is aligned correctly for the installation.
- (i) Tighten the nut [4] on the elbow [3] to 170 in-lb (19 N·m) - 200 in-lb (23 N·m).

I. Install the Regulator Assembly to the Coupling Assembly

SUBTASK 35-12-11-420-004

WARNING: USE ONLY OXYGEN-CLEAN COMPONENTS IN THE OXYGEN SYSTEM. IF YOU DO NOT USE OXYGEN-CLEAN COMPONENTS, A FIRE OR AN EXPLOSION CAN OCCUR. THIS CAN CAUSE DAMAGE TO EQUIPMENT OR INJURIES TO PERSONS.

CAUTION: DO NOT USE THE TRANSDUCER OR THE COUPLING AS A LEVER. DAMAGE CAN OCCUR IF WRENCHES ARE NOT USED TO CONNECT THE COMPONENTS.

- (1) Do these steps to install the regulator assembly [7] to the coupling assembly [9]:

NOTE: Oxygen clean fittings come from a sealed package labeled for oxygen system installation. Make sure that you use only oxygen clean fittings. Some fittings used in the oxygen system are the same as fittings in other systems and are not oxygen clean. If it is necessary to clean parts, use the applicable oxygen procedures to clean the parts. This also applies to tube caps or plugs which must be as clean as the installation connections.

- (a) Remove the protective tube cap, STD-1130, if necessary.
- (b) Loosely connect the coupling assembly [9] and the regulator assembly [7] at the union [8] on the inlet port.
- (c) Make sure the coupling assembly [9] and regulator assembly [7] are aligned correctly for the installation.
- (d) Tighten the connection between the nut on the coupling assembly [9] and the union [8] on the regulator assembly [7] to 170 in-lb (19 N·m) - 200 in-lb (23 N·m).

J. Install the Plug to the Coupling Assembly

SUBTASK 35-12-11-420-005

WARNING: USE ONLY OXYGEN-CLEAN COMPONENTS IN THE OXYGEN SYSTEM. IF YOU DO NOT USE OXYGEN-CLEAN COMPONENTS, A FIRE OR AN EXPLOSION CAN OCCUR. THIS CAN CAUSE DAMAGE TO EQUIPMENT OR INJURIES TO PERSONS.

EFFECTIVITY
HAP ALL

35-12-11

Page 412
Oct 15/2008

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

(WARNING PRECEDES)

CAUTION: DO NOT USE THE TRANSDUCER OR THE COUPLING AS A LEVER. DAMAGE CAN OCCUR IF WRENCHES ARE NOT USED TO CONNECT THE COMPONENTS.

- (1) Do these steps to install the plug [10] on the coupling assembly [9]:

NOTE: Oxygen clean fittings come from a sealed package labeled for oxygen system installation. Make sure that you use only oxygen clean fittings. Some fittings used in the oxygen system are the same as fittings in other systems and are not oxygen clean. If it is necessary to clean parts, use the applicable oxygen procedures to clean the parts. This also applies to tube caps or plugs which must be as clean as the installation connections.

- (a) Remove the protective tube cap, STD-1130, if necessary.
- (b) Install the plug [10].
- (c) Tighten the plug [10] to 170 in-lb (19 N·m) - 200 in-lb (23 N·m).

K. Install the Transducer to the Coupling Assembly

SUBTASK 35-12-11-420-006

WARNING: USE ONLY OXYGEN-CLEAN COMPONENTS IN THE OXYGEN SYSTEM. IF YOU DO NOT USE OXYGEN-CLEAN COMPONENTS, A FIRE OR AN EXPLOSION CAN OCCUR. THIS CAN CAUSE DAMAGE TO EQUIPMENT OR INJURIES TO PERSONS.

CAUTION: DO NOT USE THE TRANSDUCER OR THE COUPLING AS A LEVER. DAMAGE CAN OCCUR IF WRENCHES ARE NOT USED TO CONNECT THE COMPONENTS.

- (1) Do these steps to install the transducer [2] to the coupling assembly [9]:

NOTE: Oxygen clean fittings come from a sealed package labeled for oxygen system installation. Make sure that you use only oxygen clean fittings. Some fittings used in the oxygen system are the same as fittings in other systems and are not oxygen clean. If it is necessary to clean parts, use the applicable oxygen procedures to clean the parts. This also applies to tube caps or plugs which must be as clean as the installation connections.

- (a) Remove the protective tube cap, STD-1130, if necessary.
- (b) Loosely install the transducer [2].
- (c) Make sure the transducer [2] and coupling assembly [9] are aligned correctly for the installation.
- (d) Tighten the nut that attaches the transducer [2] to the coupling assembly [9] to 170 in-lb (19 N·m) - 200 in-lb (23 N·m).

L. Install the Regulator/Transducer Assembly to the Crew Oxygen Cylinder

SUBTASK 35-12-11-420-007

- (1) Get access to the crew oxygen cylinder.

SUBTASK 35-12-11-420-008

- (2) Do this task: Regulator/Transducer Assembly Installation, TASK 35-12-11-400-801.

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

35-12-11

Page 413
Oct 15/2008

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

PRESSURE TRANSDUCER - REMOVAL/INSTALLATION

1. General

A. This procedure contains these tasks:

- (1) Pressure Transducer Removal
- (2) Pressure Transducer Installation.
- (3) This procedure removes the pressure transducer from the crew oxygen cylinder. The pressure transducer is a component of the regulator, transducer and coupling assembly. You can replace the pressure transducer as a component or replace the entire regulator, transducer and coupling assembly as a unit, do this task: Regulator/Transducer Assembly Installation, TASK 35-12-11-400-801.

TASK 35-12-21-000-801

2. Pressure Transducer Removal

(Figure 401)

A. General

- (1) This procedure removes the pressure transducer from the crew oxygen cylinder. The pressure transducer is a component of the regulator, transducer and coupling assembly. You can replace the pressure transducer as a component or replace the entire regulator, transducer and coupling assembly as a unit (TASK 35-12-11-000-801).

B. References

Reference	Title
35-00-00-420-801	Installation of Caps on Open Oxygen Lines (P/B 201)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-12-00-800-801	Bleed the Crew Oxygen System Prior to System Maintenance or Repair (P/B 201)
35-12-11-000-801	Regulator/Transducer Assembly Removal (P/B 401)

C. Location Zones

Zone	Area
122	Forward Cargo Compartment - Right

D. Remove the Pressure Transducer

SUBTASK 35-12-21-910-001

- (1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-12-21-870-001

- (2) Do this task: Bleed the Crew Oxygen System Prior to System Maintenance or Repair, TASK 35-12-00-800-801.

SUBTASK 35-12-21-860-001

- (3) Open this circuit breaker and install safety tag:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND

EFFECTIVITY
HAP ALL

35-12-21

Page 401
Feb 10/2007

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-12-21-010-001

- (4) Go into the forward cargo compartment to get to the crew oxygen cylinder [4] (View B).

SUBTASK 35-12-21-860-002

- (5) Make sure the shutoff valve [5] is closed, and the crew oxygen supply line is not pressurized.

SUBTASK 35-12-21-020-001

- (6) Do these steps to disconnect the pressure transducer [2] (View B):

- (a) Disconnect the electrical connector [1] from the pressure transducer [2].

CAUTION: DO NOT USE THE TRANSDUCER OR THE COUPLING AS A LEVER. USE A WRENCH ON THE TRANSDUCER SQUARE BOSS AND ON THE COUPLING HEX NUT. DAMAGE CAN OCCUR IF WRENCHES ARE NOT USED TO DISCONNECT THE COMPONENTS.

- (b) Use a wrench to hold the coupling nut [6] on the regulator, transducer and coupling assembly [3].

- (c) Use a wrench to loosen the pressure transducer [2].

- (d) Remove the pressure transducer [2].

SUBTASK 35-12-21-480-001

WARNING: USE ONLY OXYGEN-CLEAN COMPONENTS IN THE OXYGEN SYSTEM. IF YOU DO NOT USE OXYGEN-CLEAN COMPONENTS, A FIRE OR AN EXPLOSION CAN OCCUR. THIS CAN CAUSE DAMAGE TO EQUIPMENT OR INJURIES TO PERSONS.

- (7) If the installation of the assembly will not occur within 5 minutes, do this task: Installation of Caps on Open Oxygen Lines, TASK 35-00-00-420-801.

NOTE: Oxygen clean fittings come from a sealed package labeled for oxygen system installation. Make sure that you use only oxygen clean fittings. Some fittings used in the oxygen system are the same as fittings in other systems and are not oxygen clean. If it is necessary to clean parts, use the applicable oxygen procedures to clean the parts. This also applies to tube caps or plugs which must be as clean as the installation connections.

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

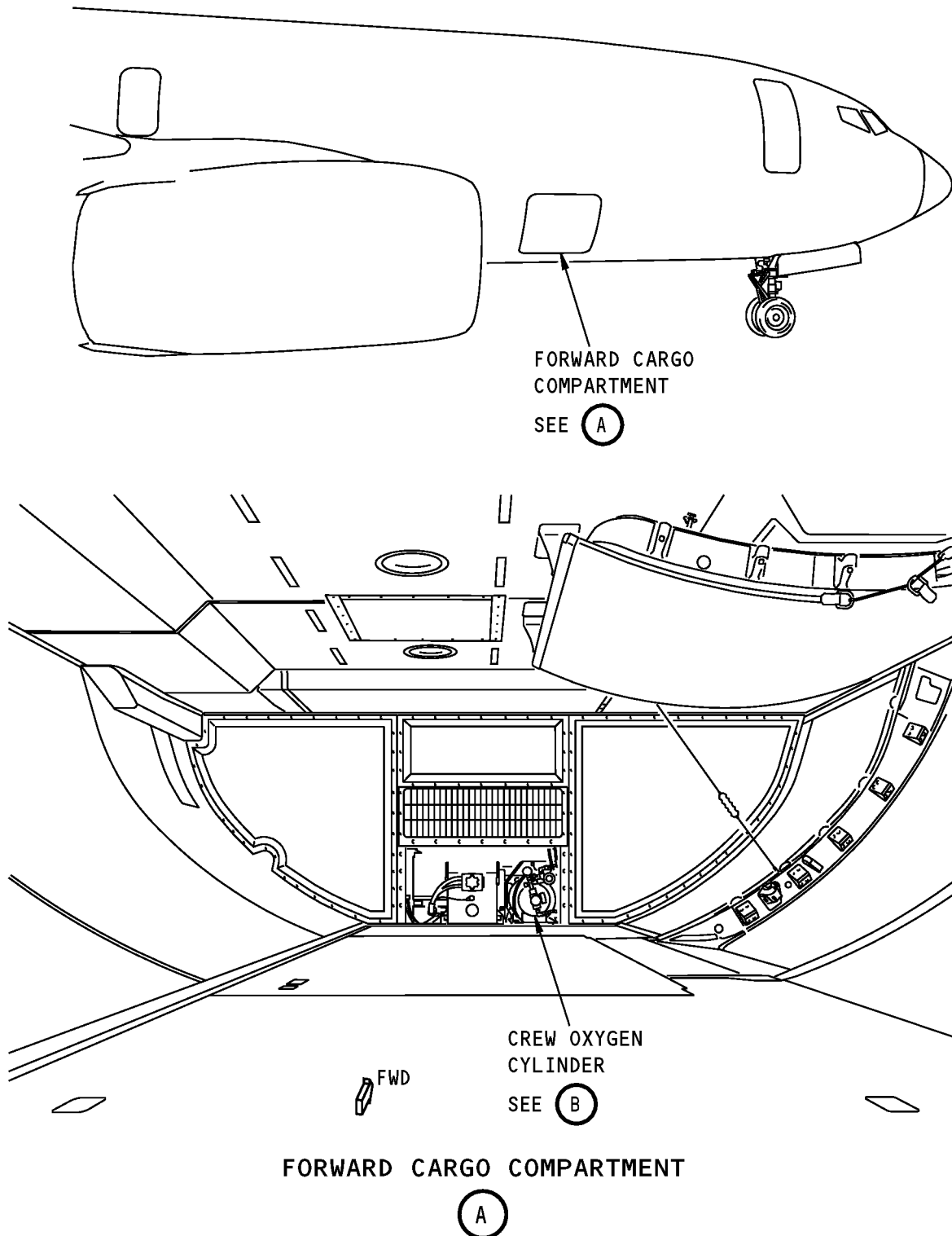
35-12-21

Page 402
Feb 10/2007

D633A101-HAP



737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL



Pressure Transducer Installation
Figure 401 (Sheet 1 of 2)/35-12-21-990-801

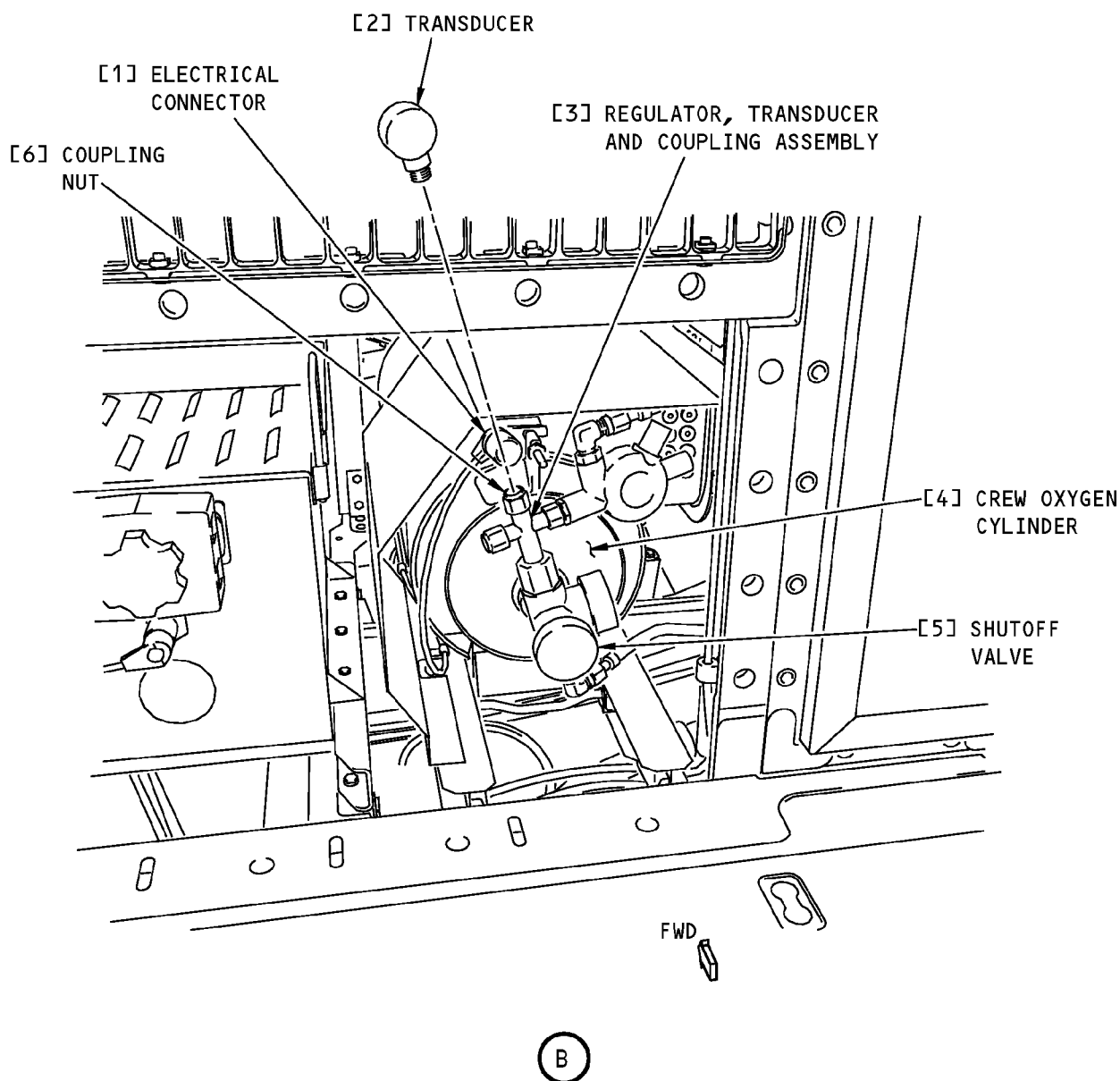
EFFECTIVITY
HAP ALL

35-12-21

Page 403
Oct 10/2003

D633A101-HAP

737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL



Pressure Transducer Installation
Figure 401 (Sheet 2 of 2)/35-12-21-990-801

EFFECTIVITY
HAP ALL

35-12-21

Page 404
Oct 10/2003

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 35-12-21-400-801

3. Pressure Transducer Installation

(Figure 401)

A. General

- (1) This task installs the pressure transducer to the regulator, transducer and coupling assembly on the crew oxygen cylinder.

B. References

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-12-00-800-802	Leak Test the Crew Oxygen System After System Maintenance or Repair (P/B 201)

C. Tools/Equipment

Reference	Description
STD-1130	Cap - Protective, Aluminum, Flareless Tube, BACC14AG
STD-1131	Plug - Protective, Aluminum, Flareless Tube, BACP20BG

D. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
2	Transducer	35-12-52-01-045	HAP 001-013, 015-026, 028-030
		35-12-52-01A-045	HAP 031-054, 101-999

E. Location Zones

Zone	Area
122	Forward Cargo Compartment - Right

F. Procedure

SUBTASK 35-12-21-910-002

- (1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-12-21-410-001

- (2) Go into the forward cargo compartment to get to the crew oxygen cylinder (View A).

SUBTASK 35-12-21-420-001

WARNING: USE ONLY OXYGEN-CLEAN COMPONENTS IN THE OXYGEN SYSTEM. IF YOU DO NOT USE OXYGEN-CLEAN COMPONENTS, A FIRE OR AN EXPLOSION CAN OCCUR. THIS CAN CAUSE DAMAGE TO EQUIPMENT OR INJURIES TO PERSONS.

- (3) Do these steps to install the pressure transducer [2] (View B):

NOTE: Oxygen clean fittings come from a sealed package labeled for oxygen system installation. Make sure that you use only oxygen clean fittings. Some fittings used in the oxygen system are the same as fittings in other systems and are not oxygen clean. If it is necessary to clean parts, use the applicable oxygen procedures to clean the parts. This also applies to tube caps or plugs which must be as clean as the installation connections.

EFFECTIVITY
HAP ALL

35-12-21

Page 405
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (a) Remove the protective tube cap, STD-1130, and tube plug, STD-1131, from the crew oxygen cylinder [4].

CAUTION: DO NOT USE THE TRANSDUCER OR THE COUPLING AS A LEVER. USE A WRENCH ON THE TRANSDUCER SQUARE BOSS AND ON THE COUPLING HEX NUT. DAMAGE CAN OCCUR IF WRENCHES ARE NOT USED TO CONNECT THE COMPONENTS.

- (b) Use a wrench to hold the coupling nut [6] in its position.
(c) Put the pressure transducer [2] in its position on the coupling nut [6].
(d) Tighten the nut that attaches the transducer [2] to the coupling assembly [6] to 170 in-lb (19 N·m) - 200 in-lb (23 N·m).
(e) Connect the electrical connector [1] to the pressure transducer [2].

SUBTASK 35-12-21-840-001

- (4) Do this task: Leak Test the Crew Oxygen System After System Maintenance or Repair, TASK 35-12-00-800-802.

G. Do a Check of the Electrical Connection

SUBTASK 35-12-21-280-001

- (1) Do this task: Supply Electrical Power, TASK 24-22-00-860-811.

SUBTASK 35-12-21-860-003

- (2) Remove the safety tag and close this circuit breaker:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	7	C00156	OXYGEN IND

SUBTASK 35-12-21-210-001

- (3) Make sure the pressure indicator on the aft overhead panel shows pressure.

H. Put the Airplane Back to its Usual Condition

SUBTASK 35-12-21-860-004

- (1) Do this task: Remove Electrical Power, TASK 24-22-00-860-812.

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

35-12-21

Page 406
Oct 15/2008

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

CREW OXYGEN PRESSURE INDICATOR - REMOVAL/INSTALLATION

1. General

A. This procedure has two tasks:

- (1) Crew oxygen pressure indicator removal
- (2) Crew oxygen pressure indicator installation

TASK 35-12-22-020-801

2. Crew Oxygen Pressure Indicator Removal

Figure 401

A. Location Zones

<u>Zone</u>	<u>Area</u>
212	Flight Compartment - Right

B. Procedure

SUBTASK 35-12-22-020-001

(1) Do these steps to remove the crew oxygen pressure indicator from the P5-14 overhead panel:

- (a) Open this circuit breaker and install safety tag:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	7	C00156	OXYGEN IND

- (b) Loosen the 4 quarter-turn fasteners that hold the P5-14 overhead panel.
- (c) Carefully pull the P5-14 overhead panel away from the rest of the P5 panel until there is sufficient access to the part of the crew oxygen pressure indicator behind the face of the P5-14 panel.
- (d) Disconnect the electrical connector from the crew oxygen pressure indicator.
- (e) Loosen the release screw to loosen the clamp that holds the crew oxygen pressure indicator in its position.
- (f) Remove the crew oxygen pressure indicator for the P5-14 panel.

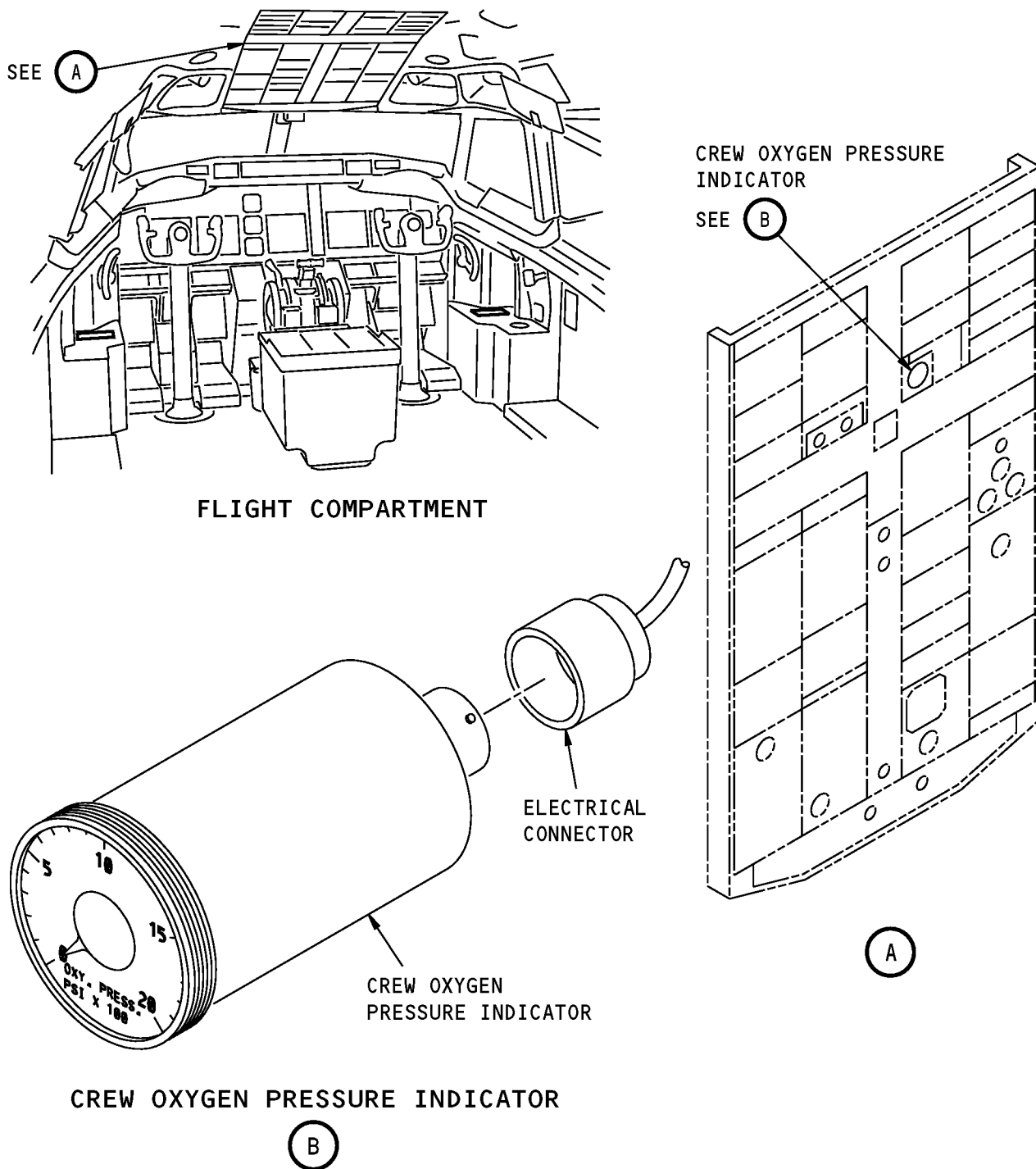
————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

35-12-22

Page 401
Feb 10/2007

D633A101-HAP



Crew Oxygen Pressure Indicator Installation
Figure 401/35-12-22-990-801

EFFECTIVITY
HAP ALL

35-12-22

Page 402
Jun 10/2006

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 35-12-22-400-801

3. Crew Oxygen Pressure Indicator Installation

A. References

Reference	Title
35-12-00-710-801	Crew Oxygen Pressure Indication Operational Test (P/B 501)

B. Location Zones

Zone	Area
212	Flight Compartment - Right

C. Procedure

SUBTASK 35-12-22-400-001

(1) Do these steps to install the crew oxygen pressure indicator from the P5-14 overhead panel:

- Put the crew oxygen pressure indicator in its position in the P5-14 panel.
- Tighten the release screw to tighten the clamp that holds the crew oxygen pressure indicator in its position.
- Connect the electrical connector to the crew oxygen pressure indicator.
- Carefully put the P5-14 overhead panel into its position in the P5 panel.
- Tighten the 4 quarter-turn fasteners that hold the P5-14 overhead panel.
- Remove the safety tag and close this circuit breaker:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND

SUBTASK 35-12-22-720-001

(2) Do this task: Crew Oxygen Pressure Indication Operational Test, TASK 35-12-00-710-801

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

35-12-22

Page 403
Feb 10/2007

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

DISCHARGE INDICATOR DISC - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
 - (1) Overboard Discharge Disc Removal
 - (2) Overboard Discharge Disc Installation.
- B. The discharge indicator is a green plastic disc installed in the overboard discharge port. If the frangible disc in the crew oxygen cylinder breaks, oxygen from the crew oxygen bottle will enter the overboard vent line. When the pressure is more than 500 psi (3450 kPa), the indicator disc will break. The purpose of the indicator disc is to give a visual indication which shows loss of oxygen through the overboard vent. If the indicator disc has blown out, do this procedure to replace the indicator disc.
- C. The overboard discharge port is found on the bottom right side of the fuselage skin, aft of the electronic equipment access door.
- D. You can remove the indicator disc from the outside of the airplane.

TASK 35-12-51-000-801

2. Discharge Indicator Disk Removal

(Figure 401)

A. References

Reference	Title
12-15-21-600-801-001	Crew Oxygen Cylinder Replacement (P/B 301)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)

B. Location Zones

Zone	Area
120	Subzone - Body Station 396 to Body Station 540

C. Procedure

SUBTASK 35-12-51-910-001

- (1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-12-51-410-001

- (2) To remove the crew oxygen cylinder, do this task: Crew Oxygen Cylinder Replacement, TASK 12-15-21-600-801-001.

SUBTASK 35-12-51-010-001

- (3) Go to the overboard discharge indicator [1], found on the bottom right side of the fuselage skin, aft of the electronic equipment access door.

SUBTASK 35-12-51-020-001

- (4) Remove the snap ring [2] with snap ring pliers.
 - (a) Keep the snap ring [2] for the installation.

SUBTASK 35-12-51-020-002

- (5) Remove the green indicator disc [3] (or what remains of it) from the overboard discharge indicator [1].
 - (a) Discard the green indicator disc [3].

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

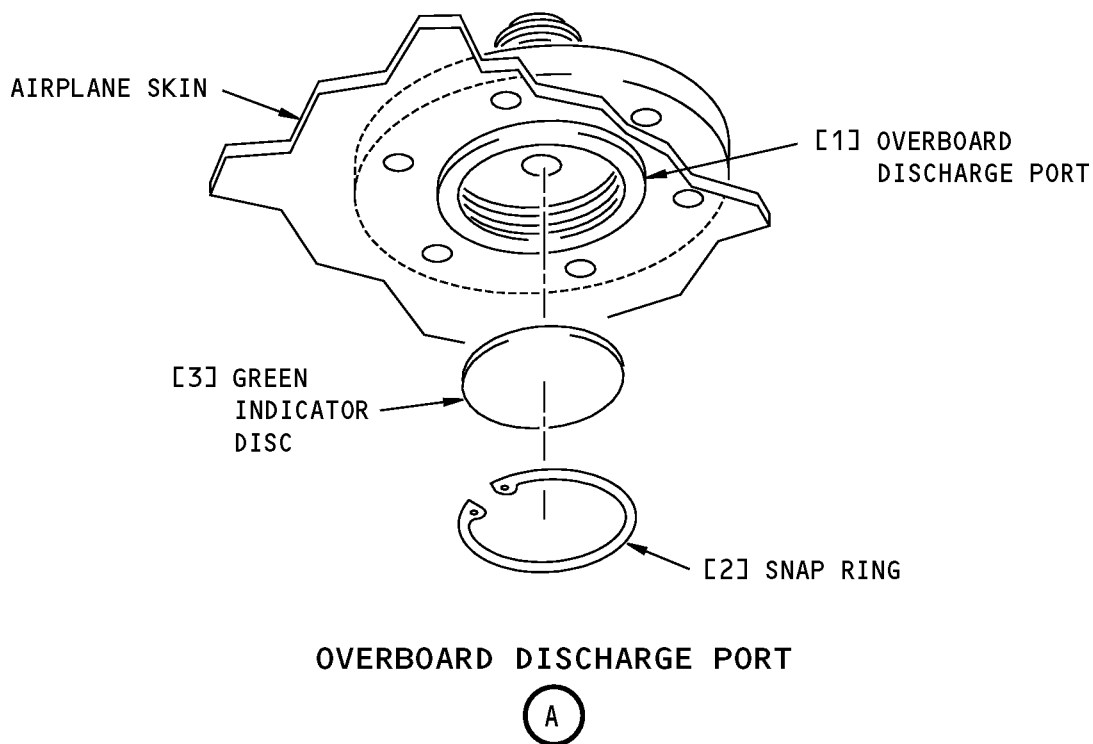
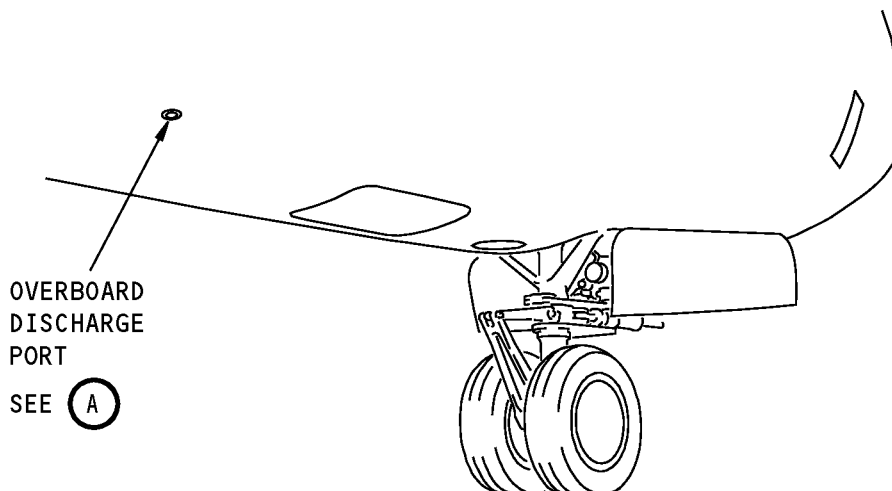
35-12-51

Page 401
Oct 10/2003

D633A101-HAP



737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL



Overboard Discharge Port Installation
Figure 401/35-12-51-990-801

EFFECTIVITY
HAP ALL

D633A101-HAP

35-12-51

Page 402
Feb 10/2005



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 35-12-51-400-801

3. Discharge Indicator Disk Installation

(Figure 401)

A. References

Reference	Title
12-15-21-600-801-001	Crew Oxygen Cylinder Replacement (P/B 301)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Indicator	53-42-00-82-005	HAP ALL

C. Location Zones

Zone	Area
120	Subzone - Body Station 396 to Body Station 540

D. Procedure

SUBTASK 35-12-51-910-002

- (1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-12-51-410-002

- (2) Go to the overboard discharge indicator [1], found on the bottom right side of the fuselage skin, aft of the main equipment center door.

NOTE: The overboard discharge indicator [1] is not removed from the airplane, but the internal pieces are replaced. The internal parts are listed in the breakdown.

SUBTASK 35-12-51-420-001

- (3) Put the green indicator disc [3] on the overboard discharge indicator [1].

SUBTASK 35-12-51-420-002

- (4) Install the snap ring [2] on the green indicator disc [3].

SUBTASK 35-12-51-210-001

- (5) Make sure the green indicator disc [3] is installed correctly.

SUBTASK 35-12-51-420-003

- (6) To install the crew oxygen cylinder, do this task: Crew Oxygen Cylinder Replacement, TASK 12-15-21-600-801-001.

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

35-12-51

Page 403
Jun 15/2008

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

CREW OXYGEN MASK/STOWAGE BOX - MAINTENANCE PRACTICES

1. General

- A. This procedure contains this task:
 - (1) Crew Oxygen Mask Stowage.
- B. This procedure gives the maintenance practices for stowage of the crew oxygen masks. Correct stowage is necessary to make sure the flight crew can quickly put on the oxygen masks.
- C. Only approved persons are permitted to do the stowage procedure.

TASK 35-12-85-910-801

2. Crew Oxygen Mask Stowage

(Figure 201)

A. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-12-00-700-801	Crew Oxygen Stowage Box Test (Mask Stowed in Stowage Box) (P/B 501)

B. Location Zones

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right

C. Stow the Captain's and First Officer's Oxygen Masks (AIRPLANES WITH INTERTECHNIQUE/EROS MASKS)

SUBTASK 35-12-85-910-005

- (1) Read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-12-85-010-003

- (2) Go into the flight compartment to get access to the applicable crew oxygen mask stowage box.

SUBTASK 35-12-85-210-001

- (3) Examine the mask, harness and oxygen supply hose to make sure the components are satisfactory:

WARNING: DO NOT PUSH THE HARNESS INFLATION LEVERS ON THE REGULATOR. THIS WILL INFLATE THE HARNESS, AND WILL STOP THE CORRECT STORAGE OF THE MASK/REGULATOR. THIS CAN CAUSE INJURIES TO PERSONS AND DAMAGE TO EQUIPMENT.

- (a) Do not push the harness inflation levers on the regulator.
- (b) Make sure the harness and oxygen supply hose are not twisted or inverted inside out.
- (c) Make sure the face seal padding on the oxygen mask is soft and quickly moves back to the initial position when you push on it.

EFFECTIVITY
HAP ALL

35-12-85

Page 201
Feb 15/2008

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (d) Remove the opaque protective shipping cover from the face mask lens, if it is installed. Do not remove the clear, electrostatic, tear-off film strip from the mask lens (Figure 201 (Sheet 5)).

NOTE: A clear, electrostatic, tear-off film strip may be installed on some goggles. Do not remove the clear tear-off film strip, if it is installed. The clear electrostatic tear-off strip is for the quick removal of ice or condensation from the mask lens after a rapid decompression.

NOTE: On some new masks an opaque (not transparent) protective shipping/storage cover may be installed on the face mask goggle lens by the manufacturer. Make sure you peel off the opaque protective shipping cover before you stow the mask, if the cover is on the mask.

- (4) If the mask, harness or oxygen supply hose are not in satisfactory condition, remove and replace the mask assembly.

SUBTASK 35-12-85-420-026

- (5) Open the mask stowage box doors.

SUBTASK 35-12-85-420-027

- (6) Connect the mask/regulator oxygen supply hose to the connector inside the mask stowage box.

SUBTASK 35-12-85-420-028

- (7) Connect the mask/regulator microphone line to the connector inside the mask stowage box.

SUBTASK 35-12-85-860-009

- (8) Make sure the dilution control is on 100%.

SUBTASK 35-12-85-860-010

- (9) Make sure the EMERGENCY oxygen control knob is off.

SUBTASK 35-12-85-530-001

- (10) Coil the oxygen supply hose into the bottom of the mask stowage box.

NOTE: Use the largest diameter possible to coil the hose.

SUBTASK 35-12-85-530-002

CAUTION: DO NOT PUSH ON THE HARNESS INFLATION LEVERS, AS IT WILL INFLATE THE HARNESS AND PREVENT CORRECT STOWAGE OF THE MASK.

- (11) Make sure that the harness is completely deflated.

SUBTASK 35-12-85-530-003

- (12) Hold the mask by the regulator, with the facepiece down and the inside of the mask toward you.

SUBTASK 35-12-85-530-004

CAUTION: DO NOT PUSH THE HARNESS CROSS STRAPS INTO OR BEHIND THE NOSE PIECE, AS IT MAY CAUSE THE CROSS STRAPS TO HANG UP ON THE MASK DURING INFLATION.

- (13) Grasp the harness and pull it downward such that the cross straps are below the facepiece.

NOTE: Let the excess harness hang downward.

SUBTASK 35-12-85-530-005

- (14) Position the oxygen supply hose down the center of the facepiece.

SUBTASK 35-12-85-530-006

- (15) Put the harness into the mask stowage box, then followed by the mask/regulator assembly.

EFFECTIVITY
HAP ALL

D633A101-HAP

35-12-85

Page 202
Feb 15/2008



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-12-85-530-007

- (16) Push down on the assembly until the mask/regulator is fully seated against the stop inside the mask stowage box.

SUBTASK 35-12-85-530-008

- (17) Close the right-hand door on the mask stowage box.

NOTE: Make sure the door does not pinch on the oxygen supply hose.

SUBTASK 35-12-85-530-009

- (18) Close the left-hand door on the mask stowage box.

NOTE: The "OXY ON" flag will be visible on the door.

SUBTASK 35-12-85-530-010

CAUTION: DO NOT PUSH ON THE HARNESS INFLATION LEVERS, AS IT WILL INFLATE THE HARNESS AND PREVENT CORRECT STOWAGE OF THE MASK.

- (19) Push the TEST AND RESET control lever on the left-hand door and release.

NOTE: The "OXY ON" flag will go out of view when the control lever is released.

HAP 001-013, 015-026, 028-030, 041, 047, 049, 050, 054

D. Stow the Observer's Oxygen Mask (MASK STOWED IN STOWAGE CUP)

SUBTASK 35-12-85-410-011

- (1) Do these steps to coil the observer's oxygen supply hose:

- (a) Make sure the supply hose is attached to the quick disconnect fitting.
- (b) Hold the oxygen mask and harness in your hand.
- (c) Coil the oxygen supply hose.
 - 1) Make sure the coils are symmetrical.
- (d) Put the oxygen supply hose coils on the shelf below the mask stowage cup.

SUBTASK 35-12-85-410-012

- (2) Do these steps to put the harness and the mask in the mask stowage cup.

- (a) When most of the oxygen supply hose is put into coils, position the harness with the two large spacers in the back of the oxygen stowage cup.
- (b) Put the mask/regulator into the oxygen stowage cup.

SUBTASK 35-12-85-410-013

- (3) Do a check of the oxygen mask:

- (a) Make sure the oxygen supply hose, harness and mask are installed correctly in the mask stowage cup.
- (b) Make sure the dilution control is on 100%.
- (c) Make sure the EMERGENCY oxygen control knob is off.

SUBTASK 35-12-85-710-004

- (4) Do this task: Crew Oxygen Stowage Box Test (Mask Stowed in Stowage Box), TASK 35-12-00-700-801.

HAP ALL

————— END OF TASK —————

EFFECTIVITY
HAP ALL

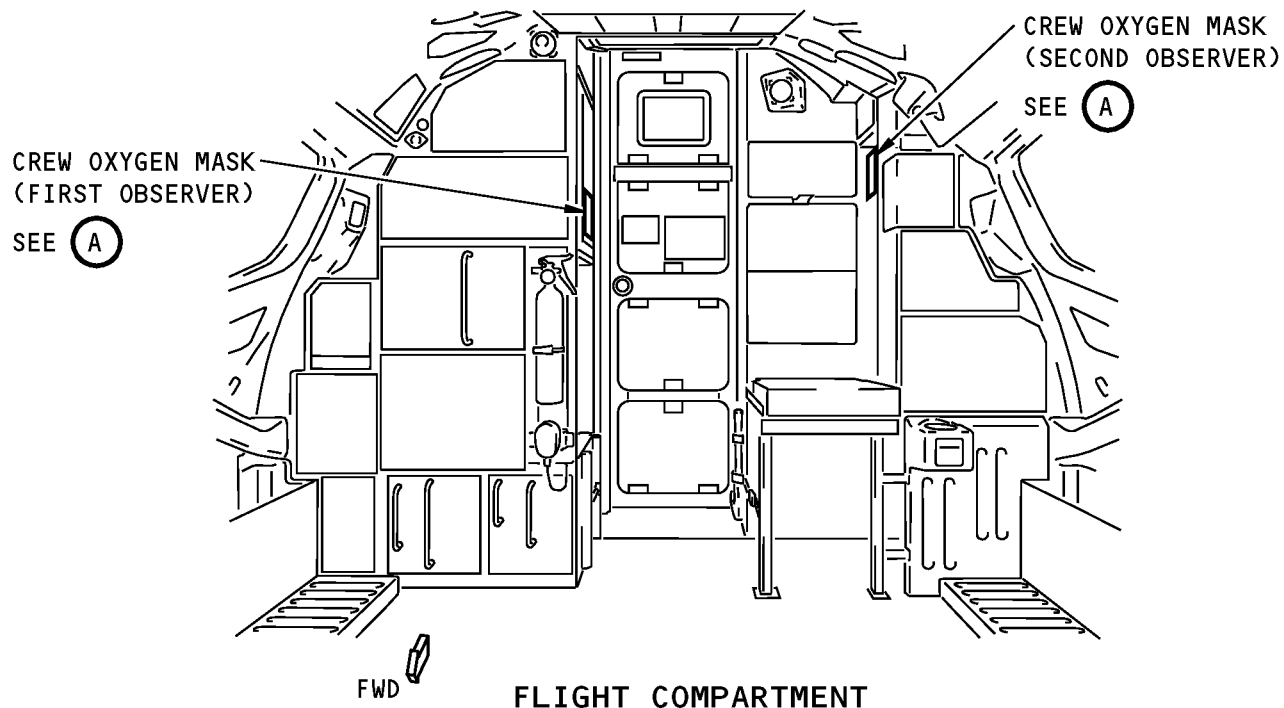
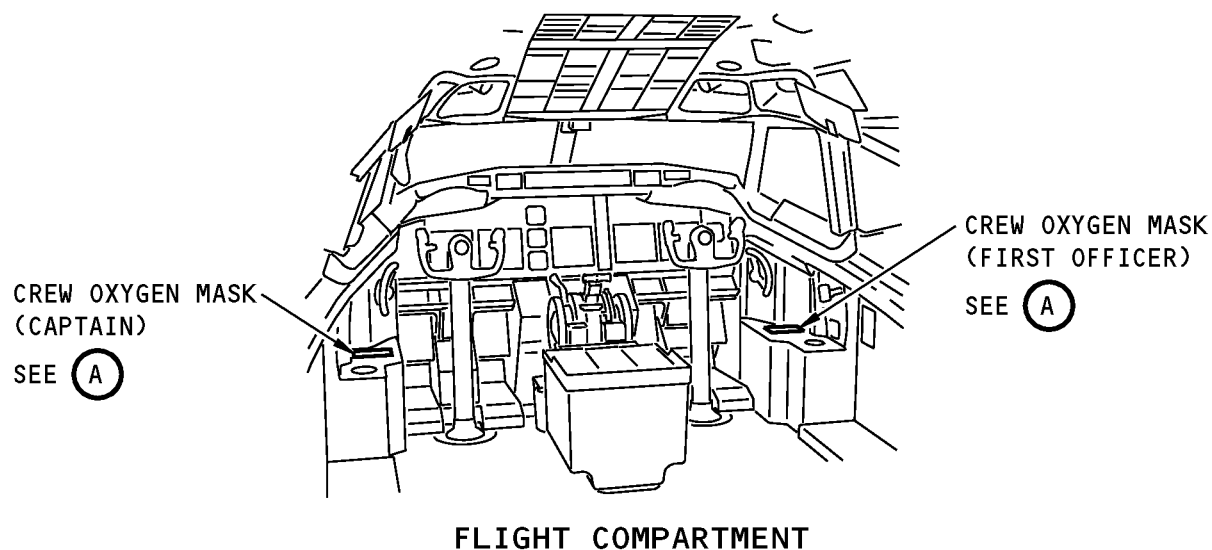
35-12-85

Page 203
Feb 15/2009

D633A101-HAP



737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL



Crew Oxygen Mask Maintenance Practices
Figure 201 (Sheet 1 of 5)/35-12-85-990-803

EFFECTIVITY
HAP 001-013, 015-026, 028-030, 041, 047, 049, 050, 054

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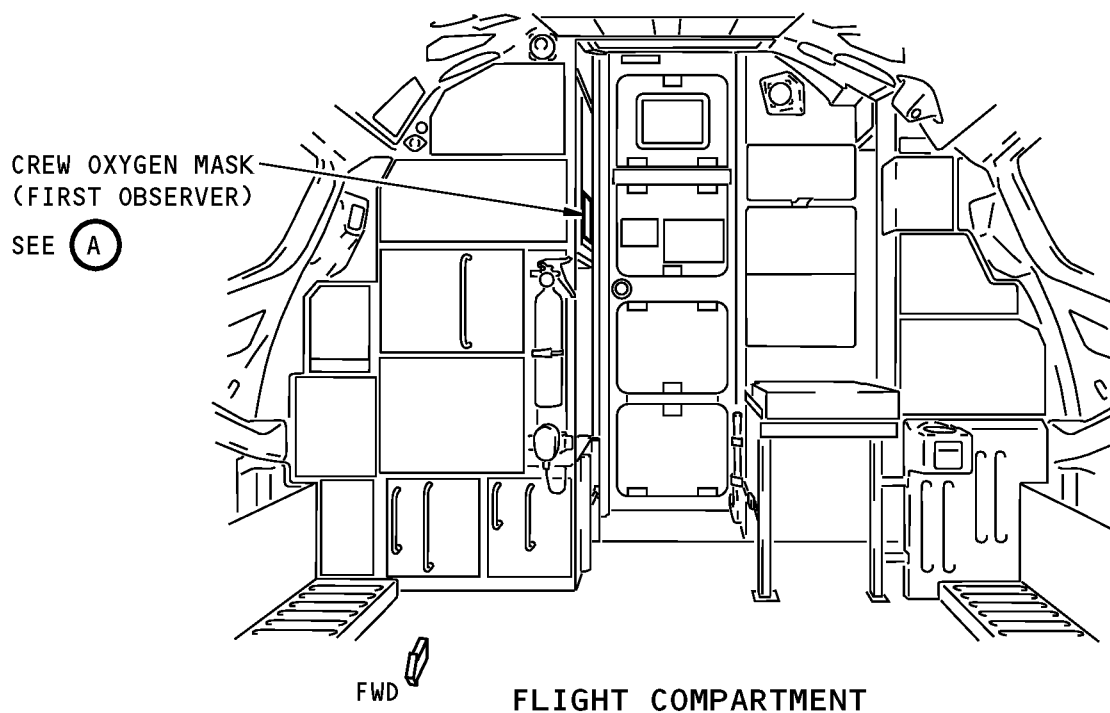
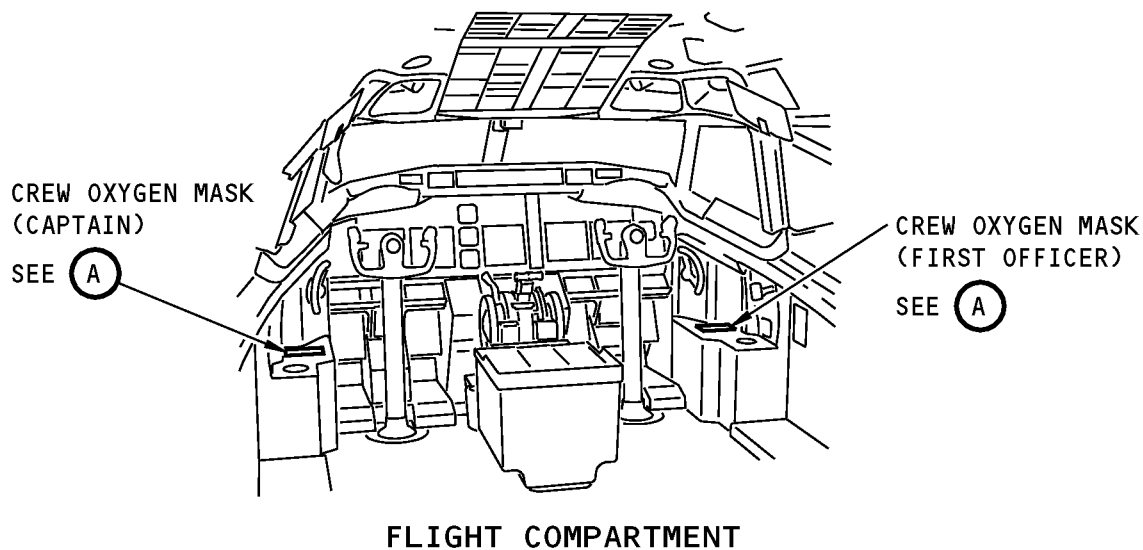
35-12-85

Page 204
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL



Crew Oxygen Mask Maintenance Practices
Figure 201 (Sheet 2 of 5)/35-12-85-990-803

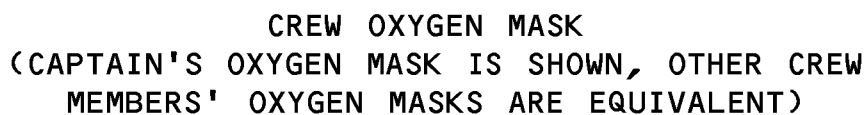
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HAP 031-040, 042-046, 048, 051-053, 101-999

D633A101-HAP

35-12-85

Page 205
Oct 15/2008



A

Crew Oxygen Mask Maintenance Practices
Figure 201 (Sheet 3 of 5)/35-12-85-990-803

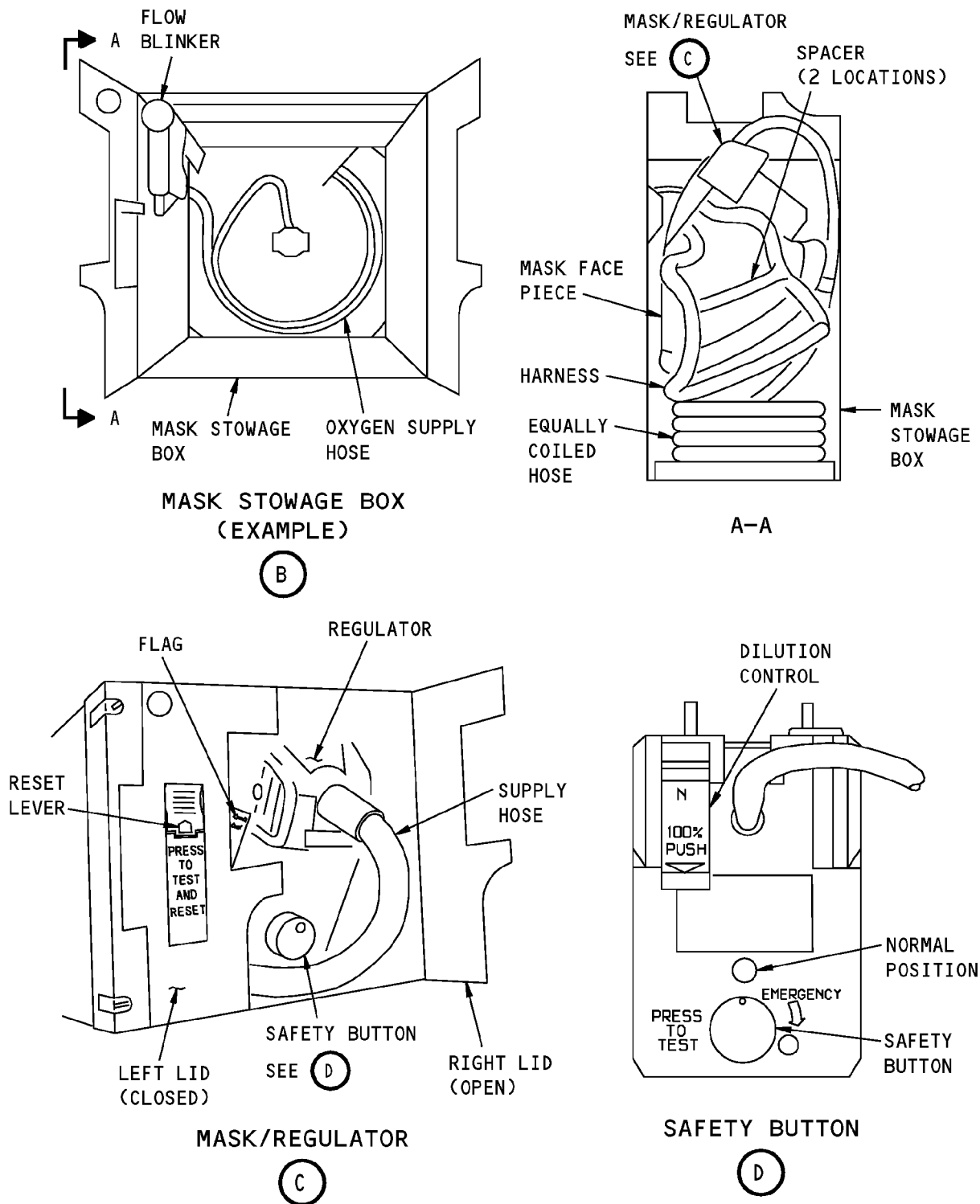
EFFECTIVITY
HAP ALL

35-12-85

Page 206
Feb 15/2008

D633A101-HAP

AIRCRAFT MAINTENANCE MANUAL



Crew Oxygen Mask Maintenance Practices
Figure 201 (Sheet 4 of 5)/35-12-85-990-803

EFFECTIVITY
HAP ALL

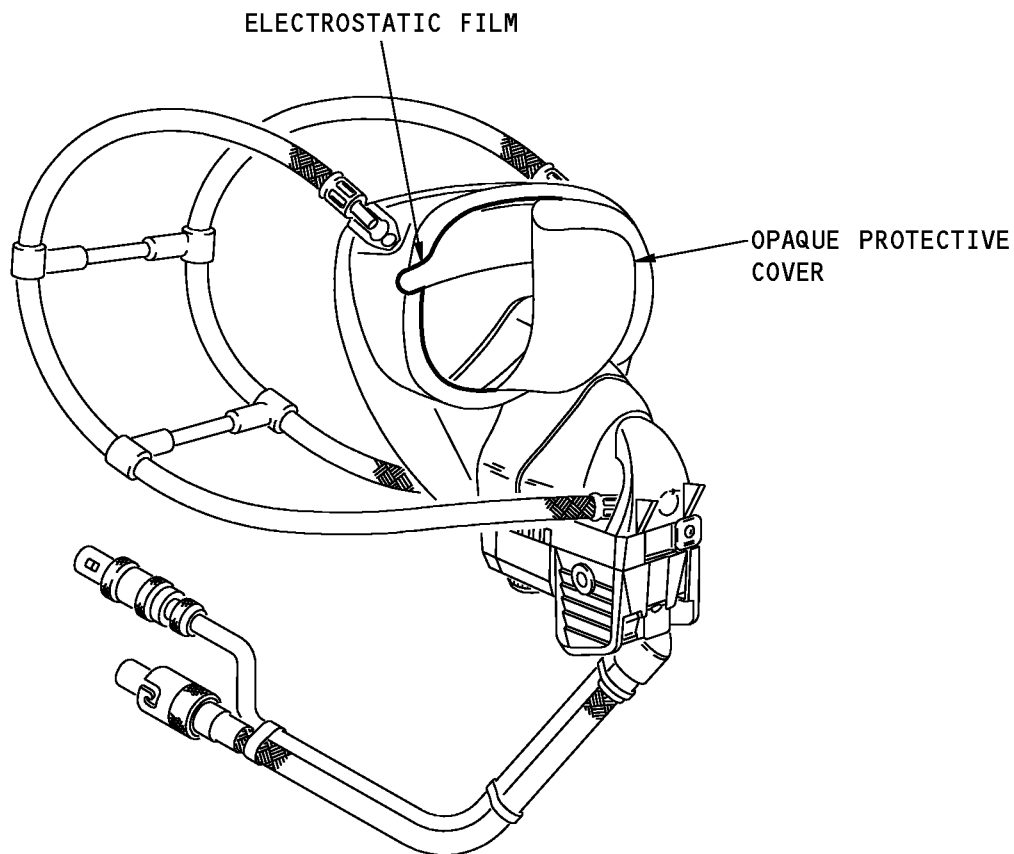
35-12-85

Page 207
Feb 15/2008

D633A101-HAP



737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL



OXYGEN MASK/REGULATOR
(SHOWN INFLATED)
(EXAMPLE)

E

Crew Oxygen Mask Maintenance Practices
Figure 201 (Sheet 5 of 5)/35-12-85-990-803

EFFECTIVITY
HAP ALL

D633A101-HAP

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35-12-85

Page 208
Feb 15/2008



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

CREW OXYGEN MASK/STOWAGE BOX - REMOVAL/INSTALLATION

1. General

- A. This procedure contains scheduled maintenance task data.
- B. This procedure contains these tasks:
 - (1) Oxygen Mask Stowage Box Removal
 - (2) Oxygen Mask Stowage Box Installation
 - (3) Oxygen Mask Removal
 - (4) Oxygen Mask Installation.

TASK 35-12-85-000-801

2. Oxygen Mask Stowage Box Removal

(Figure 401)

A. References

Reference	Title
35-00-00-420-801	Installation of Caps on Open Oxygen Lines (P/B 201)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-12-00-800-801	Bleed the Crew Oxygen System Prior to System Maintenance or Repair (P/B 201)

B. Location Zones

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right

C. Remove the Oxygen Mask Stowage Box

SUBTASK 35-12-85-910-001

- (1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-12-85-870-001

- (2) Do this task: Bleed the Crew Oxygen System Prior to System Maintenance or Repair, TASK 35-12-00-800-801.

SUBTASK 35-12-85-860-001

- (3) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
D	22	C00086	AUDIO F/O
D	23	C00083	AUDIO CAPT

SUBTASK 35-12-85-010-001

- (4) Go into the flight compartment to get access to the crew oxygen mask stowage box(es).

SUBTASK 35-12-85-860-002

- (5) Make sure the crew oxygen supply line is not pressurized.

SUBTASK 35-12-85-020-001

- (6) Do these steps remove the oxygen mask stowage box:

EFFECTIVITY
HAP ALL

35-12-85

Page 401
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (a) Loosen the four quarter-turn fasteners [1].
- (b) Carefully pull the mask stowage box assembly [5] out of the receptacle.

SUBTASK 35-12-85-020-002

- (7) Disconnect the microphone connector [4] from the communications connection at the back of the mask stowage box assembly [5].

SUBTASK 35-12-85-020-003

- (8) Do these steps to disconnect the oxygen supply hose [3]:

WARNING: YOU MUST LOOSEN THE OXYGEN SUPPLY HOSE CONNECTION SLOWLY. THE REMAINING PRESSURE IN THE LINES CAN COME OUT AT HIGH TEMPERATURE AND CAN CAUSE A FIRE OR EXPLOSION. A FIRE OR EXPLOSION CAN CAUSE INJURY TO PERSONS AND DAMAGE THE AIRPLANE.

- (a) Loosen the connection between the oxygen hose connector [2] and the fitting at the back of the mask stowage box assembly [5].
 - 1) Disconnect the oxygen supply hose [3].

WARNING: USE ONLY OXYGEN-CLEAN COMPONENTS IN THE OXYGEN SYSTEM. IF YOU DO NOT USE OXYGEN-CLEAN COMPONENTS, A FIRE OR AN EXPLOSION CAN OCCUR. THIS CAN CAUSE DAMAGE TO EQUIPMENT OR INJURIES TO PERSONS.

- 2) If the installation of the replacement mask stowage box assembly [5] will not occur within 5 minutes, do this task: Installation of Caps on Open Oxygen Lines, TASK 35-00-00-420-801.

NOTE: Oxygen clean fittings come from a sealed package labeled for oxygen system installation. Make sure that you use only oxygen clean fittings. Some fittings used in the oxygen system are the same as fittings in other systems and are not oxygen clean. If it is necessary to clean parts, use the applicable oxygen procedures to clean the parts. This also applies to tube caps or plugs which must be as clean as the installation connections.

SUBTASK 35-12-85-020-004

- (9) Remove the mask stowage box assembly [5].

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

35-12-85

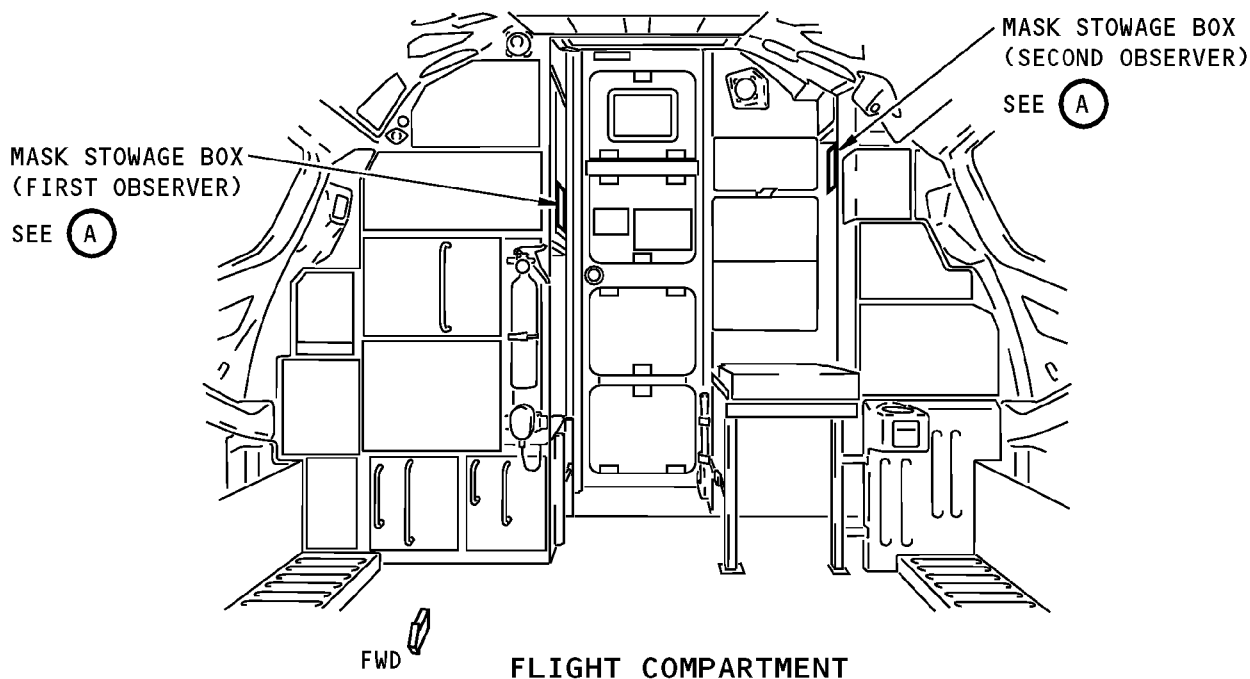
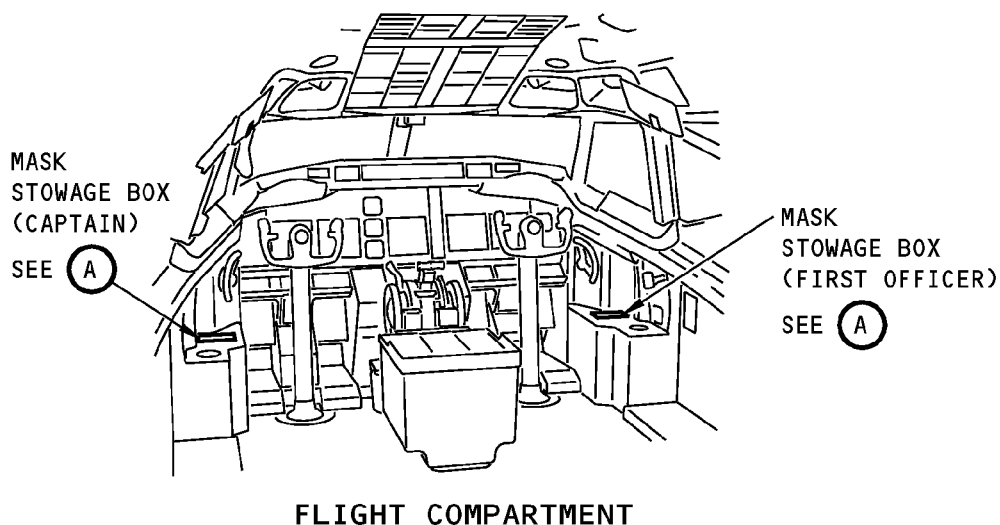
Page 402
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL



Oxygen Mask Stowage Box Installation
Figure 401 (Sheet 1 of 3)/35-12-85-990-801

EFFECTIVITY

HAP 001-013, 015-026, 028-030, 041, 047, 049, 050, 054

D633A101-HAP

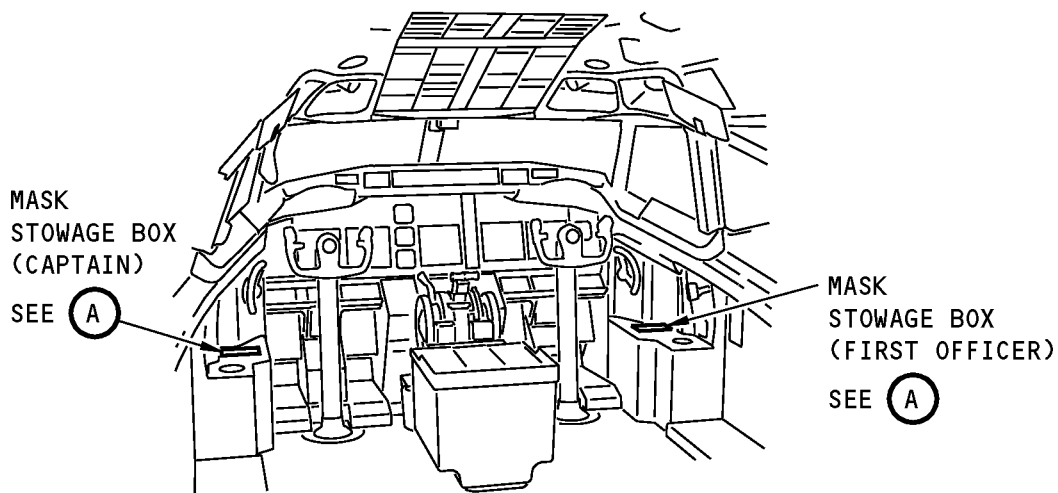
35-12-85

Page 403
Feb 15/2009

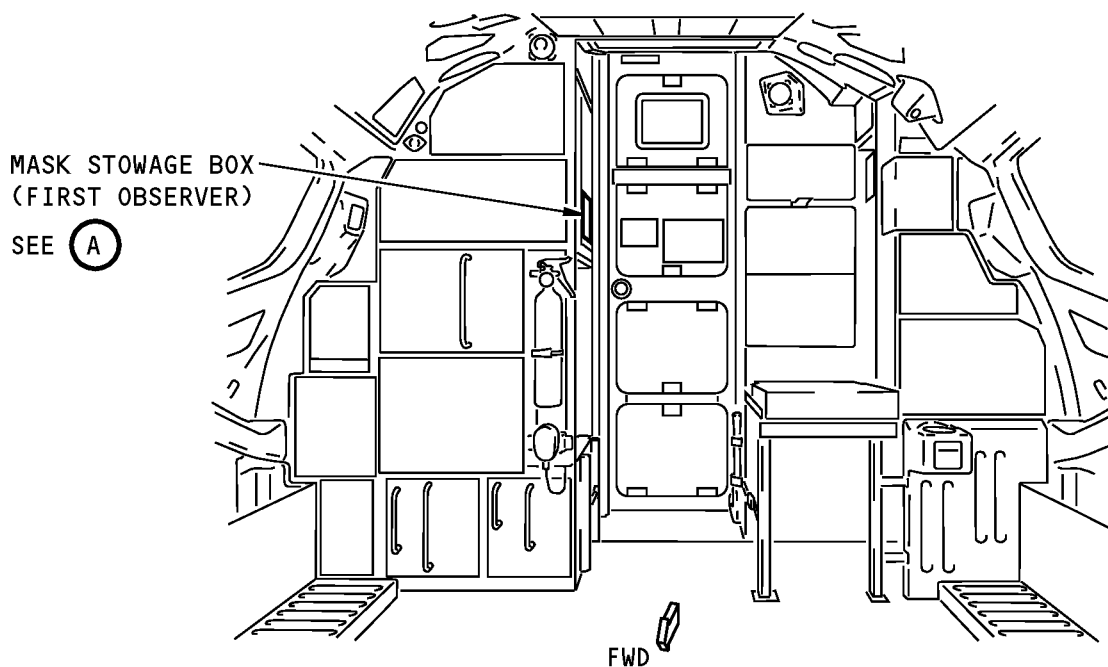


737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL



FLIGHT COMPARTMENT



FLIGHT COMPARTMENT

Oxygen Mask Stowage Box Installation
Figure 401 (Sheet 2 of 3)/35-12-85-990-801

EFFECTIVITY

HAP 031-040, 042-046, 048, 051-053, 101-999

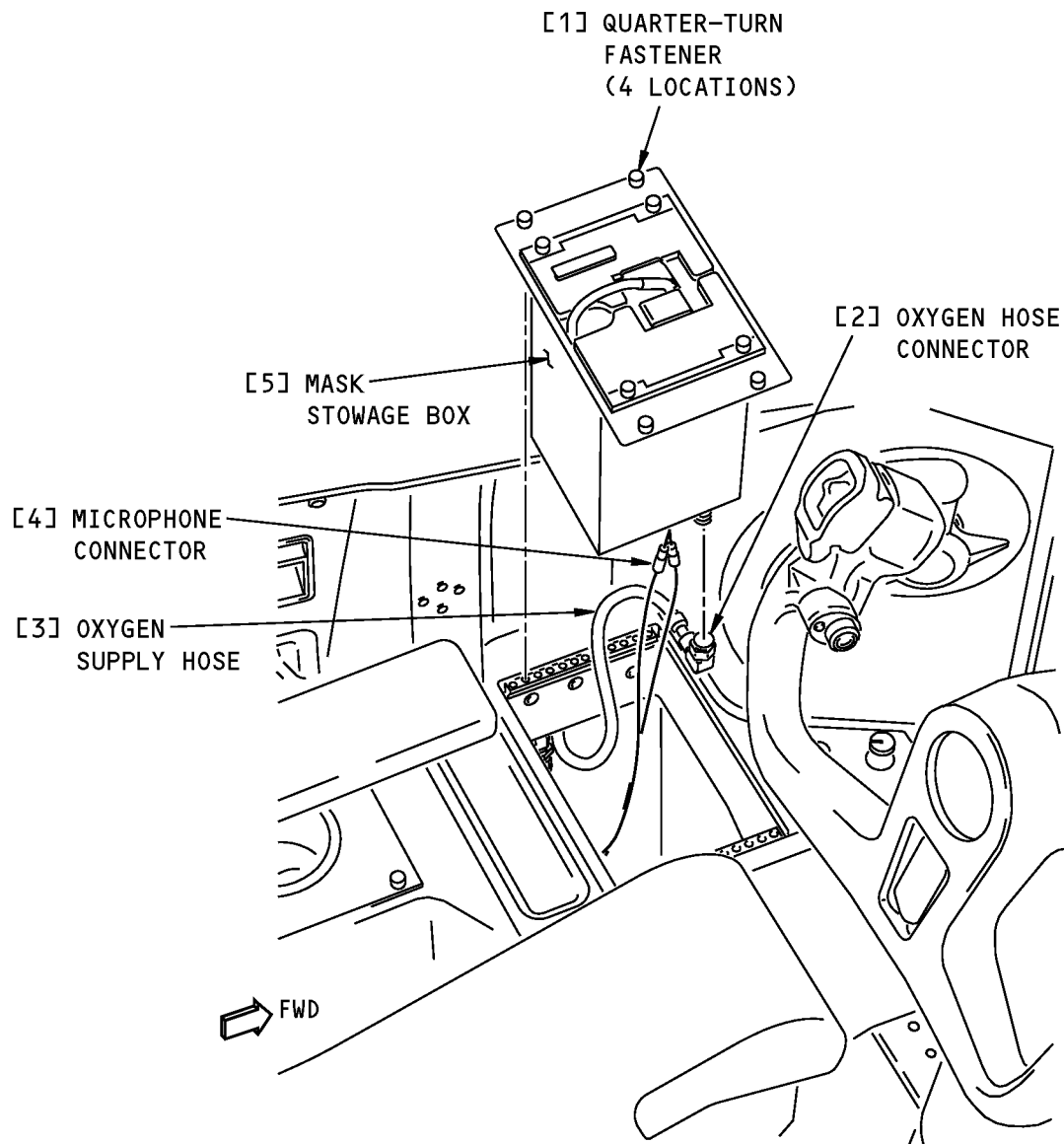
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35-12-85

Page 404
Oct 15/2008

AIRCRAFT MAINTENANCE MANUAL



MASK STOWAGE BOX
(CAPTAIN'S MASK STOWAGE BOX IS SHOWN, OTHER CREW
MEMBER'S MASK STOWAGE BOXES ARE EQUIVALENT)

A

Oxygen Mask Stowage Box Installation
Figure 401 (Sheet 3 of 3)/35-12-85-990-801

EFFECTIVITY
HAP ALL

35-12-85

Page 405
 Oct 10/2005

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 35-12-85-400-801

3. Oxygen Mask Stowage Box Installation

(Figure 401)

A. References

Reference	Title
23-51-00-710-801	Flight Interphone System - Operational Test (P/B 501)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-12-00-700-802	Crew Oxygen Mask-Regulator Test (P/B 501)
35-12-00-800-802	Leak Test the Crew Oxygen System After System Maintenance or Repair (P/B 201)

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
5	Box assembly	35-12-85-01-010	HAP 001-009
		35-12-85-10-035	HAP 001-011
		35-12-85-13-030	HAP 001-011
		35-12-85-20-605	HAP 012, 013, 015-026, 028-030
		35-12-85-20-805	HAP 012, 013, 015-026, 028-030
		35-12-85-20D-105	HAP 037-054, 101-999
		35-12-85-20D-255	HAP 031-054, 101-999
		35-12-85-20E-455	HAP 031-054, 101-999
		35-12-85-20E-655	HAP 031-047, 054, 101-106

C. Location Zones

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right

D. Install the Oxygen Mask Stowage Box

SUBTASK 35-12-85-910-002

- (1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-12-85-410-001

- (2) Go into the flight compartment to the area where you will install the crew oxygen mask stowage box(es).

SUBTASK 35-12-85-860-003

- (3) Make sure the crew oxygen supply line is not pressurized.

EFFECTIVITY
HAP ALL

35-12-85

Page 406
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-12-85-420-001

WARNING: USE ONLY OXYGEN-CLEAN COMPONENTS IN THE OXYGEN SYSTEM. IF YOU DO NOT USE OXYGEN-CLEAN COMPONENTS, A FIRE OR AN EXPLOSION CAN OCCUR. THIS CAN CAUSE DAMAGE TO EQUIPMENT OR INJURIES TO PERSONS.

- (4) Do these steps to connect the oxygen supply hose [3]:

NOTE: Oxygen clean fittings come from a sealed package labeled for oxygen system installation. Make sure that you use only oxygen clean fittings. Some fittings used in the oxygen system are the same as fittings in other systems and are not oxygen clean. If it is necessary to clean parts, use the applicable oxygen procedures to clean the parts. This also applies to tube caps or plugs which must be as clean as the installation connections.

- (a) Remove the protective plugs and caps.

WARNING: YOU MUST USE TWO WRENCHES TO TIGHTEN THE OXYGEN SUPPLY HOSE TO THE OXYGEN MASK STOWAGE BOX FITTING. DAMAGE TO THE OXYGEN SUPPLY HOSE CAN OCCUR IF YOU DO NOT USE WRENCHES TO CONNECT THESE COMPONENTS.

- (b) Connect the oxygen supply hose [3] to the fitting.
(c) Use a backup wrench to make sure the fitting does not turn.

SUBTASK 35-12-85-420-002

- (5) Connect the microphone connector [4] to the communications connection at the back of the mask stowage box assembly [5].

SUBTASK 35-12-85-420-003

- (6) Do these steps to install the oxygen mask stowage box:
- (a) Position the oxygen supply hose [3] and microphone connector [4] in such a way to make sure they will not rub on the structure.
- (b) Carefully install the mask stowage box assembly [5].
- (c) Tighten the four quarter-turn fasteners [1].

SUBTASK 35-12-85-410-002

- (7) If it is necessary to install the mask and regulator in the oxygen mask stowage box, do this task: Oxygen Mask/Regulator Installation, TASK 35-12-85-400-802.

SUBTASK 35-12-85-860-004

- (8) Remove the safety tags and close these circuit breakers:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	22	C00086	AUDIO F/O
D	23	C00083	AUDIO CAPT

SUBTASK 35-12-85-840-001

- (9) Do this task: Leak Test the Crew Oxygen System After System Maintenance or Repair, TASK 35-12-00-800-802.

SUBTASK 35-12-85-710-001

- (10) Do this task: Crew Oxygen Mask-Regulator Test, TASK 35-12-00-700-802.

EFFECTIVITY
HAP ALL

35-12-85

Page 407
Jun 15/2008

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-12-85-710-002

- (11) To do a check of the boom microphone to make a voice transmission between two flight crew stations, do this task: Flight Interphone System - Operational Test, TASK 23-51-00-710-801.

END OF TASK

TASK 35-12-85-000-802

4. Oxygen Mask/Regulator Removal

(Figure 401, Figure 402)

A. General

- (1) This procedure is a scheduled maintenance task.

B. References

Reference	Title
35-00-00-420-801	Installation of Caps on Open Oxygen Lines (P/B 201)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-12-00-800-801	Bleed the Crew Oxygen System Prior to System Maintenance or Repair (P/B 201)

C. Location Zones

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right

D. Remove the Oxygen Mask/Regulator

SUBTASK 35-12-85-910-003

- (1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-12-85-870-002

- (2) Do this task: Bleed the Crew Oxygen System Prior to System Maintenance or Repair, TASK 35-12-00-800-801.

SUBTASK 35-12-85-860-005

- (3) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
D	22	C00086	AUDIO F/O
D	23	C00083	AUDIO CAPT
D	24	C00085	AUDIO OBS

SUBTASK 35-12-85-010-002

- (4) Go into the flight compartment to get access to the crew oxygen masks.

SUBTASK 35-12-85-860-006

- (5) Make sure the crew oxygen supply line is not pressurized.

SUBTASK 35-12-85-020-005

- (6) Do these steps to remove the captain's and first officer's oxygen mask assembly [25] from the oxygen mask stowage box [21]:

EFFECTIVITY
HAP ALL

35-12-85

Page 408
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (a) Open the left and right lid on the applicable oxygen mask stowage box [21].
- (b) Disconnect the microphone line at the microphone connection [23].
- (c) Disconnect the oxygen supply hose at the oxygen supply hose connection [22].
- (d) Bundle the oxygen supply hose [24] and microphone line together.
- (e) Remove the oxygen mask assembly [25].

HAP 031-040, 042-046, 048, 051-053, 101-999

SUBTASK 35-12-85-020-006

- (7) For the first observer's oxygen mask assembly [26]:
 - (a) Go to the first observer's oxygen mask stowage cup.
 - (b) Disconnect the microphone line at the microphone connection [27].
 - (c) Disconnect the oxygen supply hose at the oxygen supply hose connection [28].
 - (d) Bundle the oxygen supply hose and microphone line together.
 - (e) Remove the oxygen mask assembly [26].

HAP 001-013, 015-026, 028-030, 041, 047, 049, 050, 054

SUBTASK 35-12-85-020-007

- (8) For the second observer's oxygen mask assembly [26]:
 - (a) Go to the second observer's oxygen mask stowage cup.
 - (b) Disconnect the oxygen supply hose at the oxygen supply hose connection.
 - (c) Bundle the oxygen supply hose and microphone line together.
 - (d) Remove the oxygen mask assembly [26].

HAP ALL

SUBTASK 35-12-85-480-001

WARNING: USE ONLY OXYGEN-CLEAN COMPONENTS IN THE OXYGEN SYSTEM. IF YOU DO NOT USE OXYGEN-CLEAN COMPONENTS, A FIRE OR AN EXPLOSION CAN OCCUR. THIS CAN CAUSE DAMAGE TO EQUIPMENT OR INJURIES TO PERSONS.

- (9) If the installation of the replacement oxygen mask(s) will not occur within 5 minutes, do this task: Installation of Caps on Open Oxygen Lines, TASK 35-00-00-420-801.

NOTE: Oxygen clean fittings come from a sealed package labeled for oxygen system installation. Make sure that you use only oxygen clean fittings. Some fittings used in the oxygen system are the same as fittings in other systems and are not oxygen clean. If it is necessary to clean parts, use the applicable oxygen procedures to clean the parts. This also applies to tube caps or plugs which must be as clean as the installation connections.

————— END OF TASK —————

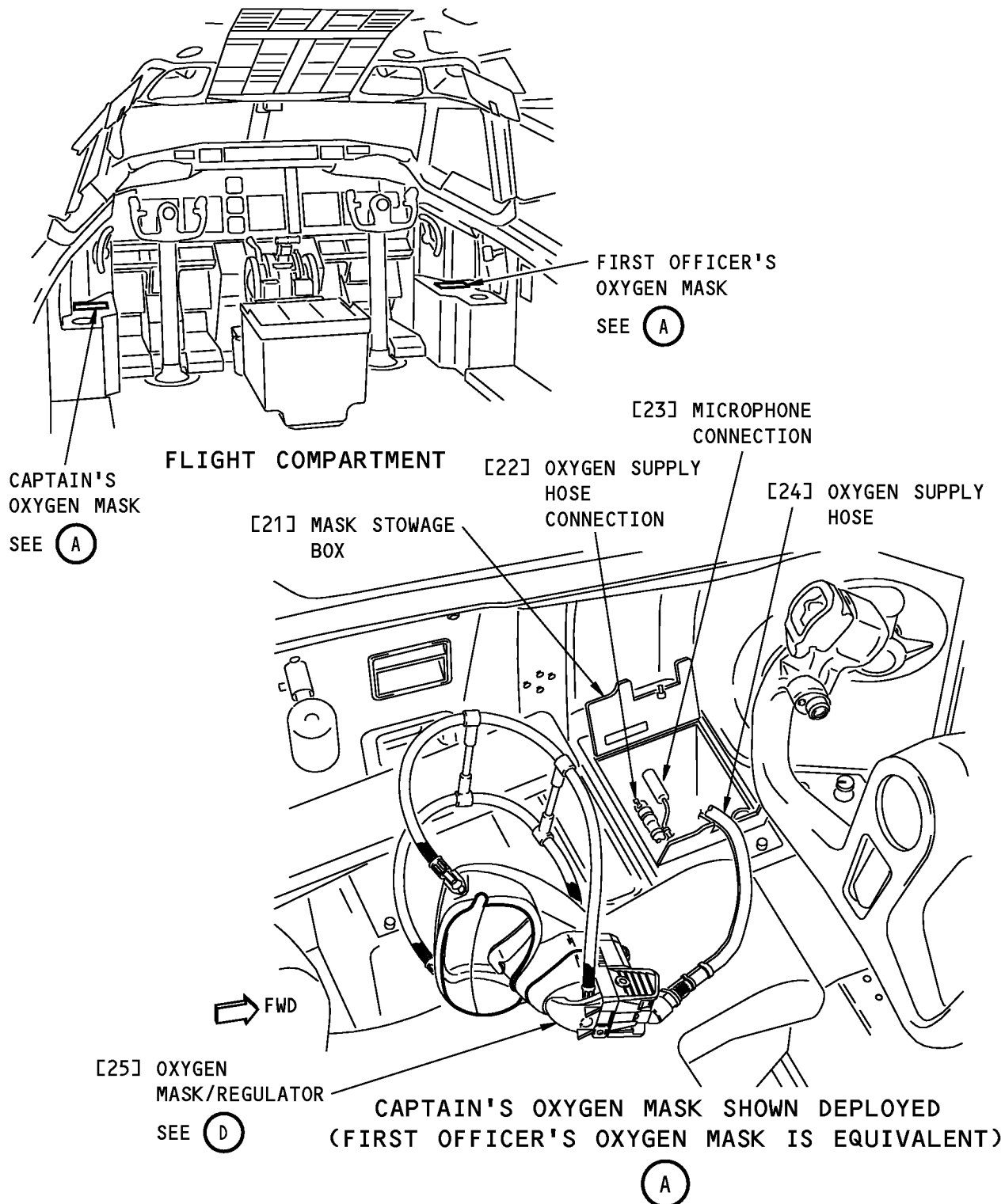
EFFECTIVITY
HAP ALL

35-12-85

Page 409
Feb 15/2009

D633A101-HAP

AIRCRAFT MAINTENANCE MANUAL



Crew Oxygen Mask Installation
Figure 402 (Sheet 1 of 4)/35-12-85-990-802

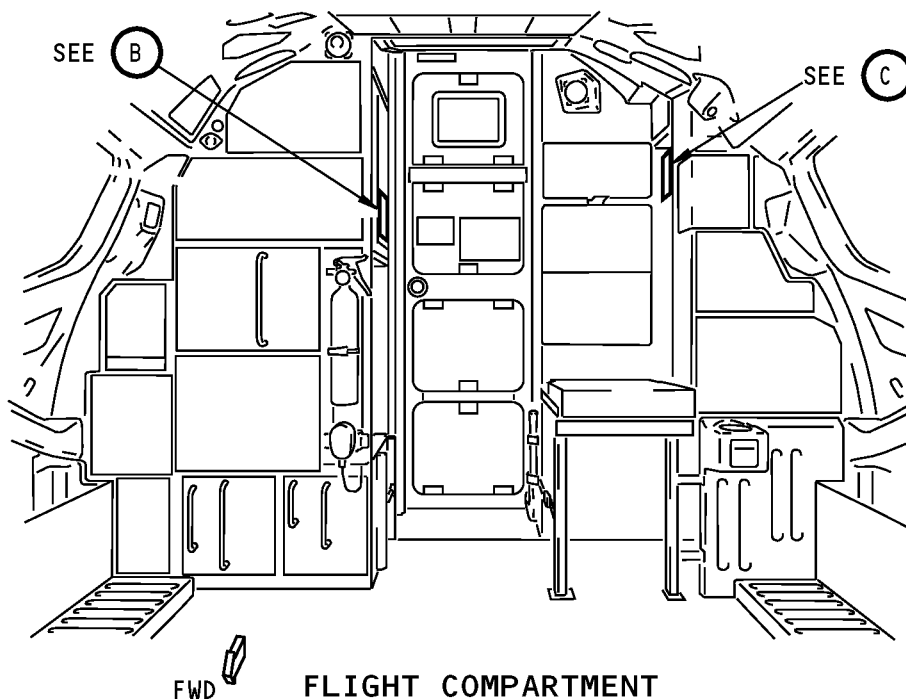
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HAP ALL

35-12-85

Page 410
Feb 15/2008

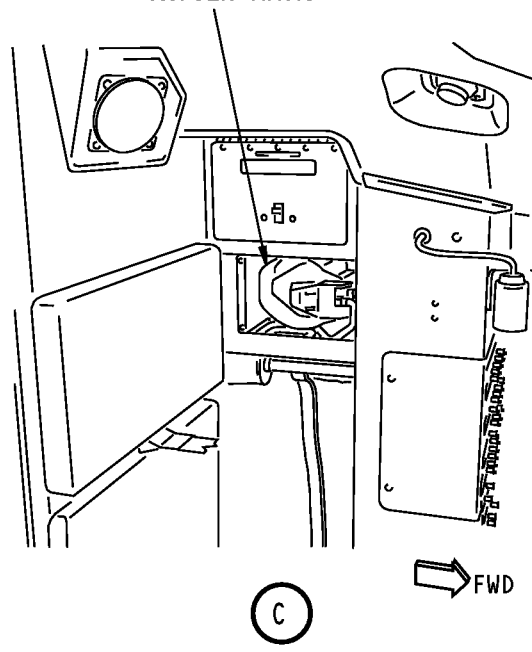
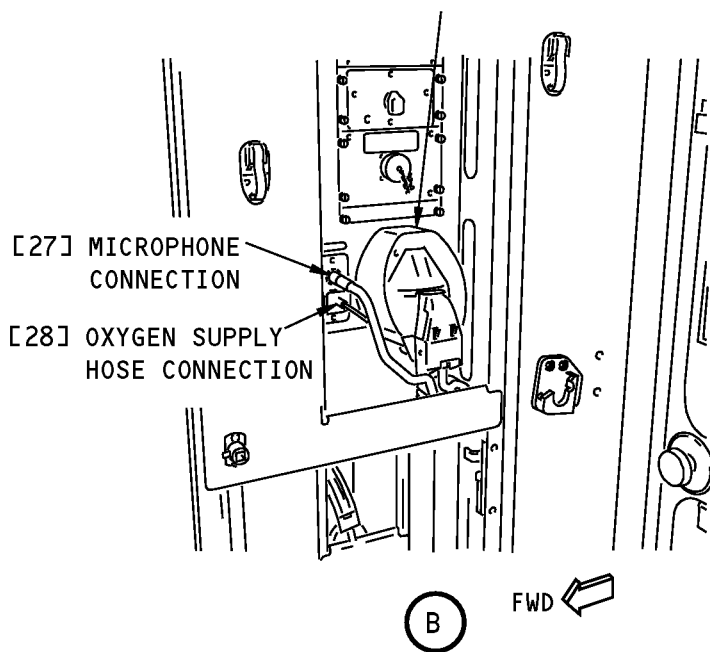
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AIRCRAFT MAINTENANCE MANUAL



**[26] FIRST OBSERVER'S
OXYGEN MASK**

**[26] SECOND OBSERVER'S
OXYGEN MASK**



Crew Oxygen Mask Installation
Figure 402 (Sheet 2 of 4)/35-12-85-990-802

EFFECTIVITY

HAP 001-013, 015-026, 028-030, 041, 047, 049, 050, 054

D633A101-HAP

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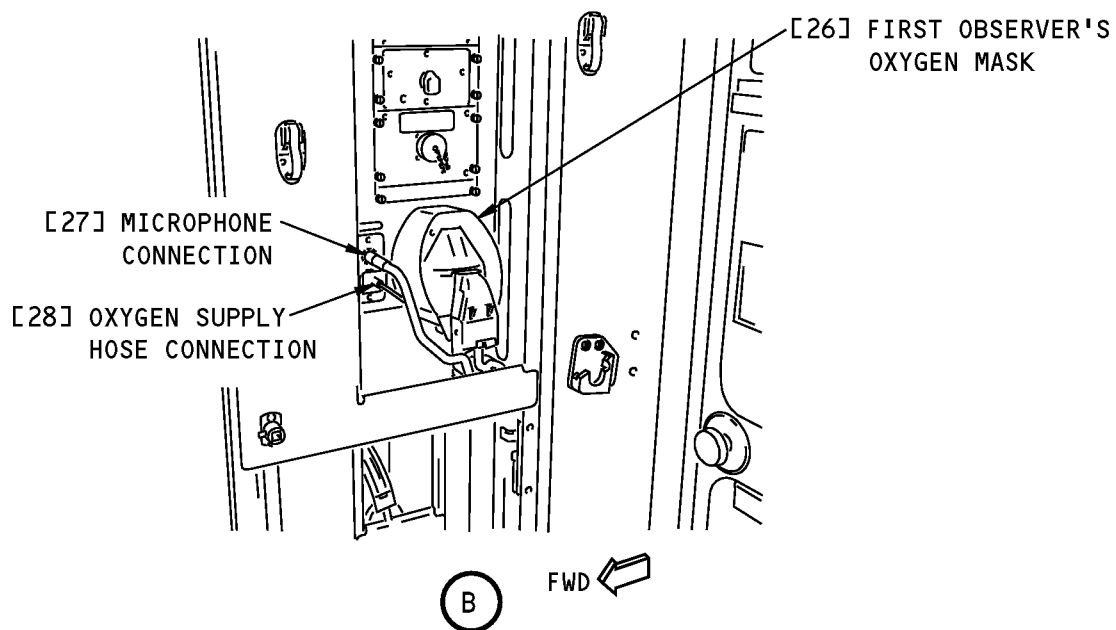
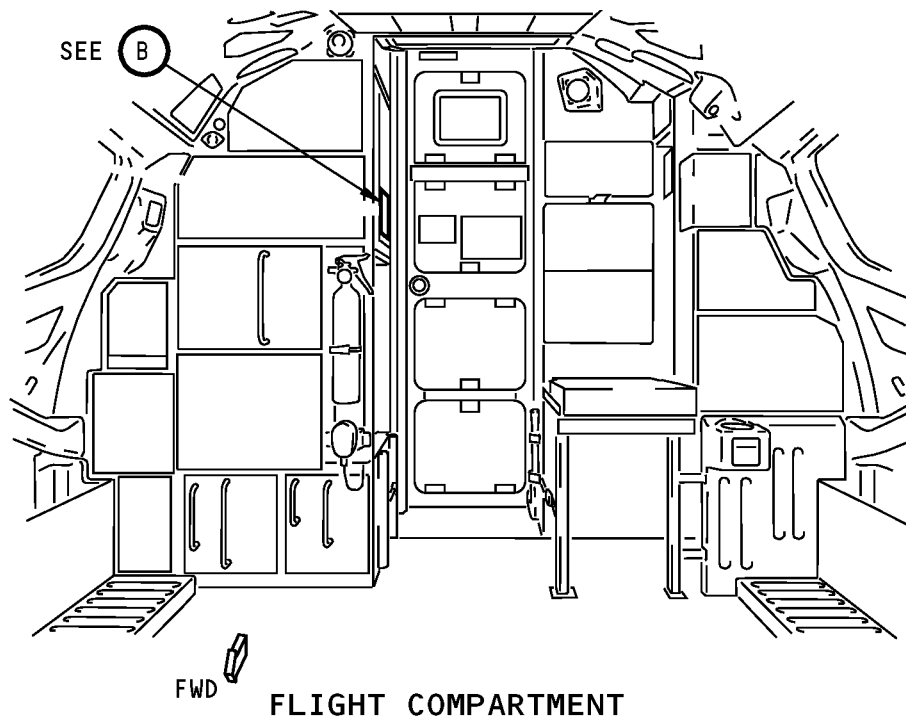
35-12-85

Page 411
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL



Crew Oxygen Mask Installation
Figure 402 (Sheet 3 of 4)/35-12-85-990-802

EFFECTIVITY

HAP 031-040, 042-046, 048, 051-053, 101-999

D633A101-HAP

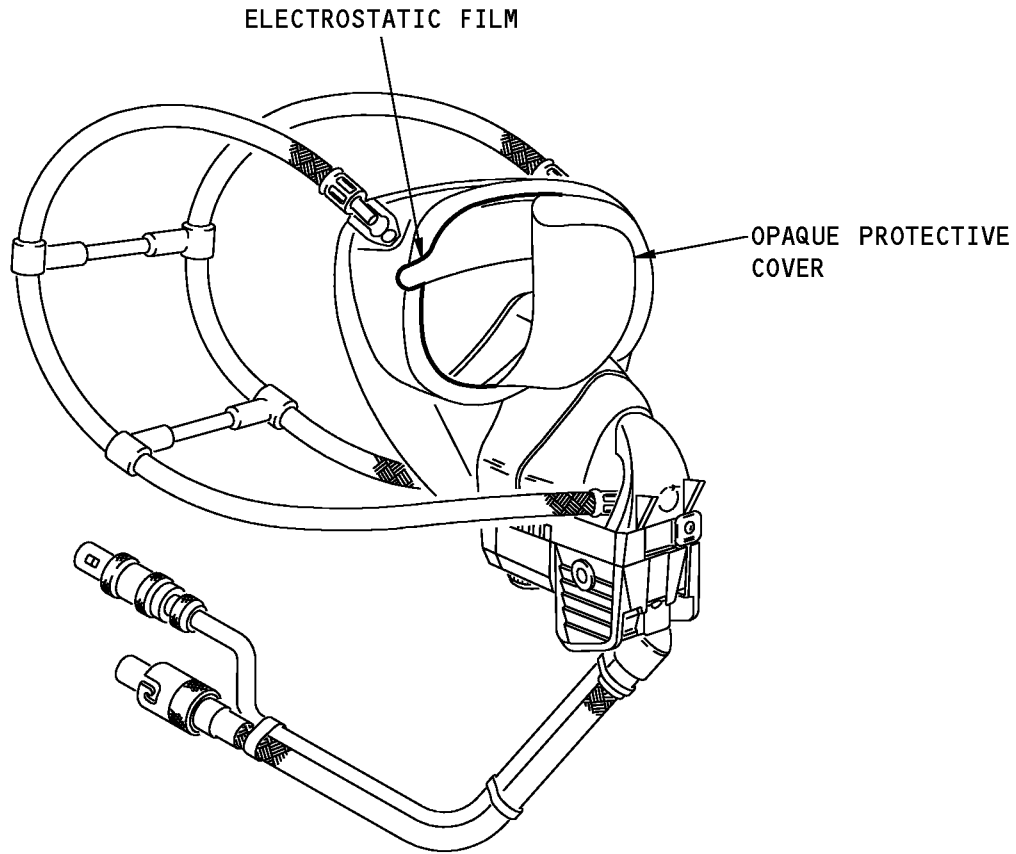
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35-12-85

Page 412
Oct 15/2008



737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL



OXYGEN MASK/REGULATOR
(SHOWN INFLATED)
(EXAMPLE)

D

Crew Oxygen Mask Installation
Figure 402 (Sheet 4 of 4)/35-12-85-990-802

EFFECTIVITY
HAP ALL

D633A101-HAP

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35-12-85

Page 413
Feb 15/2008



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 35-12-85-400-802

5. Oxygen Mask/Regulator Installation

(Figure 401, Figure 402)

A. General

- (1) This procedure is a scheduled maintenance task.

B. References

Reference	Title
23-51-00-710-801	Flight Interphone System - Operational Test (P/B 501)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-12-00-700-802	Crew Oxygen Mask-Regulator Test (P/B 501)
35-12-00-800-802	Leak Test the Crew Oxygen System After System Maintenance or Repair (P/B 201)
35-12-85-910-801	Crew Oxygen Mask Stowage (P/B 201)

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
25	Mask assembly	35-12-85-13-010 35-12-85-20-310	HAP 001-011 HAP 012, 013, 015-026, 028-030
26	Mask assembly	35-12-85-20E-005 35-12-85-01-005 35-12-85-10-010 35-12-85-20B-005 35-12-85-20D-255 35-12-85-31-005	HAP 031-054, 101-999 HAP 001-009 HAP 001-011 HAP 012, 013, 015-026, 028-030 HAP 031-054, 101-999 HAP 010, 011

D. Location Zones

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right

E. Install the Oxygen Mask/Regulator

SUBTASK 35-12-85-910-004

- (1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-12-85-410-003

- (2) Go into the flight compartment to the area where you will install the oxygen mask/regulator(s).

SUBTASK 35-12-85-860-007

- (3) Make sure the crew oxygen supply line is not pressurized.

SUBTASK 35-12-85-080-001

- (4) Remove the caps and plugs from the oxygen supply line.

EFFECTIVITY
HAP ALL

35-12-85

Page 414
Jun 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-12-85-420-004

WARNING: USE ONLY OXYGEN-CLEAN COMPONENTS IN THE OXYGEN SYSTEM. IF YOU DO NOT USE OXYGEN-CLEAN COMPONENTS, A FIRE OR AN EXPLOSION CAN OCCUR. THIS CAN CAUSE DAMAGE TO EQUIPMENT OR INJURIES TO PERSONS.

- (5) Do these steps to connect the captains and first officers oxygen mask assembly [25] in the stowage box [21]:

NOTE: Oxygen clean fittings come from a sealed package labeled for oxygen system installation. Make sure that you use only oxygen clean fittings. Some fittings used in the oxygen system are the same as fittings in other systems and are not oxygen clean. If it is necessary to clean parts, use the applicable oxygen procedures to clean the parts. This also applies to tube caps or plugs which must be as clean as the installation connections.

- (a) Go to the applicable oxygen mask stowage box [21].
- (b) Open the left and right lids on the oxygen mask stowage box [21].
- (c) Connect the oxygen supply hose [24] at the oxygen supply hose connection [22] in the oxygen mask stowage box [21].
- (d) Connect the microphone line at the microphone connection [23] in the oxygen mask stowage box [21].
- (e) Remove the opaque protective shipping cover from the face mask lens, if it is installed. Do not remove the clear, electrostatic, tear-off film strip from the mask lens (Figure 402 (Sheet 4)).

NOTE: A clear, electrostatic, tear-off film strip may be installed on some goggles. Do not remove the clear tear-off film strip, if it is installed. The clear electrostatic tear-off strip is for the quick removal of ice or condensation from the mask lens after a rapid decompression.

NOTE: An opaque (not transparent) protective shipping/storage cover may be installed on the face mask goggle lens by the manufacturer. Make sure you peel off the opaque protective shipping cover before you stow the mask, if the cover is on the mask.

- (f) Install the crew oxygen mask assembly [25] in the oxygen mask stowage box [21].

HAP 031-040, 042-046, 048, 051-053, 101-999

SUBTASK 35-12-85-420-005

WARNING: USE ONLY OXYGEN-CLEAN COMPONENTS IN THE OXYGEN SYSTEM. IF YOU DO NOT USE OXYGEN-CLEAN COMPONENTS, A FIRE OR AN EXPLOSION CAN OCCUR. THIS CAN CAUSE DAMAGE TO EQUIPMENT OR INJURIES TO PERSONS.

- (6) Do these steps to connect the first observer's oxygen mask assembly [26]:

NOTE: Oxygen clean fittings come from a sealed package labeled for oxygen system installation. Make sure that you use only oxygen clean fittings. Some fittings used in the oxygen system are the same as fittings in other systems and are not oxygen clean. If it is necessary to clean parts, use the applicable oxygen procedures to clean the parts. This also applies to tube caps or plugs which must be as clean as the installation connections.

- (a) Go to the first observer's oxygen mask stowage cup.
- (b) Connect the microphone line at the microphone connection [27] next to the stowage cup.

EFFECTIVITY
HAP ALL

35-12-85

Page 415
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

HAP 031-040, 042-046, 048, 051-053, 101-999 (Continued)

- (c) Connect the oxygen supply hose at the oxygen supply hose connection [28] next to the stowage cup.
- (d) Install the first observer's oxygen mask assembly [26].

HAP 001-013, 015-026, 028-030, 041, 047, 049, 050, 054

SUBTASK 35-12-85-420-006

WARNING: USE ONLY OXYGEN-CLEAN COMPONENTS IN THE OXYGEN SYSTEM. IF YOU DO NOT USE OXYGEN-CLEAN COMPONENTS, A FIRE OR AN EXPLOSION CAN OCCUR. THIS CAN CAUSE DAMAGE TO EQUIPMENT OR INJURIES TO PERSONS.

- (7) Do these steps to connect the second observer's oxygen mask assembly [26]:

NOTE: Oxygen clean fittings come from a sealed package labeled for oxygen system installation. Make sure that you use only oxygen clean fittings. Some fittings used in the oxygen system are the same as fittings in other systems and are not oxygen clean. If it is necessary to clean parts, use the applicable oxygen procedures to clean the parts. This also applies to tube caps or plugs which must be as clean as the installation connections.

- (a) Go to the second observer's oxygen mask stowage cup.
- (b) Connect the oxygen supply hose at the oxygen supply hose connection next to the stowage cup.
- (c) Install the second observer's oxygen mask assembly [26].

HAP ALL

SUBTASK 35-12-85-860-008

- (8) Remove the safety tags and close these circuit breakers:

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	22	C00086	AUDIO F/O
D	23	C00083	AUDIO CAPT
D	24	C00085	AUDIO OBS

SUBTASK 35-12-85-840-002

- (9) Do this task: Leak Test the Crew Oxygen System After System Maintenance or Repair, TASK 35-12-00-800-802.

SUBTASK 35-12-85-710-003

- (10) Do these operational tests to make sure the crew oxygen system operates satisfactorily:
 - (a) For an operational test of the Crew Oxygen System, do this task: Crew Oxygen Mask-Regulator Test, TASK 35-12-00-700-802.
 - (b) To do a check of the boom microphone for a voice transmission between two flight crew stations, do this task: Flight Interphone System - Operational Test, TASK 23-51-00-710-801.

SUBTASK 35-12-85-420-007

- (11) Do this task: Crew Oxygen Mask Stowage, TASK 35-12-85-910-801.

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

35-12-85

Page 416
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

PASSENGER OXYGEN SYSTEM - ADJUSTMENT/TEST

1. General

- A. This procedure contains scheduled maintenance task data.
- B. This procedure contains this task:
 - (1) Passenger Oxygen System Functional Test.
 - (2) Visual Inspection of the Heat-Sensitive Band On Oxygen Generator.
- C. This procedure tests the operation of the passenger oxygen system. The procedure tests the automatic (pressure switch) and manual (flight compartment switch) activation of the door latch actuators found on each oxygen box door.
- D. The door test stops, found in each oxygen box door, must be in the test position before you begin this test. The oxygen box doors will open and the oxygen masks will deploy during the functional test if the test stop is not in the test stop position.

TASK 35-22-00-700-801

2. Passenger Oxygen System - Functional Test

(Figure 501, Figure 502, Figure 503)

- A. General
 - (1) This procedure is a scheduled maintenance task.
- B. References

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-41-000-801	Altitude Pressure Switch Removal (P/B 401)
35-22-41-400-801	Altitude Pressure Switch Installation (P/B 401)

- C. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

EFFECTIVITY
HAP ALL

D633A101-HAP

35-22-00

Page 501
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

Reference	Description
COM-1914	Test Set - Air Data Model FLMTS (Flight Line Maintenance) (Part #: 18910920000, Supplier: 89944, A/P Effectivity: 737-ALL) (Part #: 6005KTQA1-103, Supplier: 35012, A/P Effectivity: 737-ALL) (Part #: ADC800, Supplier: 41364, A/P Effectivity: 737-ALL) (Part #: ADTS405F, Supplier: U0427, A/P Effectivity: 737-ALL) (Part #: ADTS505, Supplier: U0427, A/P Effectivity: 737-ALL) (Part #: ADTS530, Supplier: U0427, A/P Effectivity: 737-ALL) (Part #: D60340, Supplier: K1474, A/P Effectivity: 737-ALL) (Part #: D60383, Supplier: K1474, A/P Effectivity: 737-100, -200, -200C, -300, -400, -500, -600, -700, -700C, -700ER, -700QC, -800, -900, -900ER, -ALL, -BBJ) (Part #: DPS350, Supplier: 21844, A/P Effectivity: 737-ALL) (Part #: DPS450, Supplier: 21844, A/P Effectivity: 737-ALL) (Part #: DPS500, Supplier: 21844, A/P Effectivity: 737-ALL) (Part #: MODEL 6300, Supplier: 0RD25, A/P Effectivity: 737-ALL) (Part #: MPS31C, Supplier: 48RQ2, A/P Effectivity: 737-100, -200, -200C, -300, -400, -500, -600, -700, -700C, -700ER, -700QC, -800, -900, -900ER, -ALL, -BBJ) (Part #: MPS34C, Supplier: 48RQ2, A/P Effectivity: 737-100, -200, -200C, -300, -400, -500, -600, -700, -700C, -700ER, -700QC, -800, -900, -900ER, -ALL, -BBJ) (Part #: TES9463, Supplier: 88277, A/P Effectivity: 737-ALL) (Opt Part #: 18910480000, Supplier: 89944, A/P Effectivity: 737-ALL) (Opt Part #: D60302, Supplier: K1474, A/P Effectivity: 737-ALL)
COM-1931	Pump - Vacuum, Portable, Standard Duty (Part #: 2546B-01, Supplier: 0NCC5, A/P Effectivity: 737-ALL) (Part #: 2546C-01, Supplier: 0NCC5, A/P Effectivity: 737-ALL) (Part #: 2546C-02, Supplier: 0NCC5, A/P Effectivity: 737-ALL) (Part #: DPI610, Supplier: U0427, A/P Effectivity: 737-ALL) (Opt Part #: 2545B-01, Supplier: 0NCC5, A/P Effectivity: 737-ALL) (Opt Part #: 2545C-02, Supplier: 0NCC5, A/P Effectivity: 737-ALL)
STD-1318	Hose - Vacuum, 1/4 Inch Inside Diameter (ID) Plastic Tube (Tygon-B44-30PT, Uniflex 650 or Similar)
STD-1319	Connector - Tee, Vacuum Hose (to Attach Vacuum Gauge to Vacuum Hose)
STD-1320	Gauge - Vacuum
STD-1321	Valve - Shutoff
STD-3900	Adapter - Straight, Tube to Hose

D. Location Zones

Zone	Area
200	Upper Half of Fuselage
212	Flight Compartment - Right

E. Prepare for the Test

SUBTASK 35-22-00-910-001

- (1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-22-00-860-001

- (2) Do this task: Supply Electrical Power, TASK 24-22-00-860-811.

EFFECTIVITY
HAP ALL

D633A101-HAP

35-22-00

Page 502
Jun 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

HAP 031-054, 101-999; HAP 001-013, 015-026, 028-030 POST SB 737-24-1147

SUBTASK 35-22-00-860-015

- (3) Make sure that the IFE/PASS SEAT switch on the P5-13 is ON.

HAP ALL

SUBTASK 35-22-00-860-002

- (4) Make sure that these circuit breakers are closed:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

F/O Electrical System Panel, P6-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	12	C00132	MASTER CAUTION ANNUNCIATOR BUS 1
B	13	C00131	MASTER CAUTION ANNUNCIATOR BAT
D	11	C00133	INDICATOR MASTER DIM DIM/TST CONT
D	12	C00310	INDICATOR MASTER DIM BAT
D	13	C00311	INDICATOR MASTER DIM BUS 1
D	14	C00312	INDICATOR MASTER DIM BUS 2
E	11	C00313	INDICATOR MASTER DIM SECT 1
E	12	C00314	INDICATOR MASTER DIM SECT 2
E	13	C00315	INDICATOR MASTER DIM SECT 3
E	14	C00316	INDICATOR MASTER DIM SECT 4
F	11	C00317	INDICATOR MASTER DIM SECT 5
F	12	C00318	INDICATOR MASTER DIM SECT 6

Power Distribution Panel Number 2, P92

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	5	C03012	XFR BUS 2 SECT 2

SUBTASK 35-22-00-860-003

- (5) Do these steps to prepare the door test stops on each of the oxygen mask doors (Figure 503).

NOTE: Oxygen mask doors are installed on these service units: attendant service units (ASU), lavatory service units (LSU), and passenger service units (PSU).

- Make sure all of the oxygen mask doors are closed.
- Use a small flat tool to carefully push the test stop button down.
- Hold the test stop button and pull it down to the limit of travel.
- Turn the test stop button counter-clockwise 90 degrees to the test stop position.
- Do these steps again for the remaining oxygen mask doors on these service units:
 - PSUs
 - ASUs
 - LSUs.

EFFECTIVITY
HAP ALL

35-22-00

Page 503
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (f) Do a check to make sure each test stop button is in the test stop position.

NOTE: If the test stop button is not in the test stop position, the oxygen box door will open and the oxygen masks will deploy during the functional test.

SUBTASK 35-22-00-860-004

- (6) Do these steps to clear the Master Caution System:

- (a) On the P7 lightshield, push one of the two MASTER CAUTION lights.
- (b) Make sure the two MASTER CAUTION annunciators do not remain on.
- (c) Make sure the OVERHEAD annunciation on the right master caution display does not come on.

F. Automatic Actuation Functional Test

SUBTASK 35-22-00-860-005

- (1) Open this circuit breaker:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	9	C00784	OXYGEN PASS RIGHT

SUBTASK 35-22-00-480-001

- (2) Do these steps to install the test equipment on the altitude pressure switch, S813, (Figure 502):

- (a) Go to the J23 BOX found to the left of the door in the main electronics compartment.
- (b) If necessary, remove the cover to get access to the Altitude Pressure Switch.
- (c) Locate the Altitude Pressure Switch fitting through the cutout in the forward side of the J23BOX.
- (d) Connect these components to the altitude pressure switch:

NOTE: The altitude pressure switch may have to be removed from its position slightly to attach the test equipment.

NOTE: If the air data model test set, COM-1914 is used, do not use the other tools.

- 1) adapter, STD-3900
- 2) hose, STD-1318
- 3) connector, STD-1319
- 4) gauge, STD-1320
- 5) shutoff valve, STD-1321
- 6) vacuum pump, COM-1931
- 7) air data model test set, COM-1914

SUBTASK 35-22-00-720-001

CAUTION: DO NOT APPLY A POSITIVE PRESSURE ON THE ALTITUDE PRESSURE SWITCH. IF YOU APPLY POSITIVE PRESSURE, IT WILL CAUSE DAMAGE TO THE ALTITUDE PRESSURE SWITCH.

- (3) Slowly decrease the pressure to the altitude pressure switch, S813, to simulate a cabin altitude between 17.8 in. (452.8 mm) and 17.3 in. (440.2 mm) mercury absolute (14,000 \pm 350 ft (4267 \pm 107 m) cabin altitude).

EFFECTIVITY
HAP ALL

35-22-00

Page 504
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-22-00-720-002

(4) When the left side oxygen box doors open and drop down against the test stop buttons, check to see that the test gauge indicates between 17.8 in. (452.8 mm) and 17.3 in. (440.2 mm) mercury absolute (14,000 \pm 350 ft (4267 \pm 107 m) cabin altitude).

(a) If the oxygen box doors do not unlatch at or below 17.3 in. (440.2 mm) mercury absolute (14,350 ft (4374 m)) the S813 switch has failed. Do these tasks to replace the S813 altitude pressure switch:

Altitude Pressure Switch Removal, TASK 35-22-41-000-801

Altitude Pressure Switch Installation, TASK 35-22-41-400-801

SUBTASK 35-22-00-720-003

(5) Make sure the PASS OXY ON light comes on (on the oxygen system module, P5-14 overhead panel) (Figure 501).

SUBTASK 35-22-00-720-004

(6) Make sure the two MASTER CAUTION lights and the OVERHEAD annunciation on the master caution display come on.

SUBTASK 35-22-00-720-005

(7) Push the LIGHTS switch on the P1-3 panel to the DIM position.

SUBTASK 35-22-00-720-006

(8) Make sure the PASS OXY ON light is on and the light is dim.

SUBTASK 35-22-00-720-007

(9) Push the LIGHTS switch to the BRT (bright) position.

SUBTASK 35-22-00-720-008

(10) Make sure the PASS OXY ON light is on and the light is bright.

SUBTASK 35-22-00-720-009

(11) Push one of the two MASTER CAUTION lights to reset the system.

SUBTASK 35-22-00-720-010

(12) Make sure all of the annunciations on the master caution displays go out.

SUBTASK 35-22-00-720-011

(13) Push one of the two master caution displays.

NOTE: Other lights on the master caution annunciator can come on, but maintenance action is not necessary.

SUBTASK 35-22-00-720-012

(14) Make sure the two MASTER CAUTION lights and the OVERHEAD annunciation on the master caution display come on.

SUBTASK 35-22-00-720-013

(15) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	7	C00156	OXYGEN IND
F	10	C00783	OXYGEN PASS LEFT

EFFECTIVITY
HAP ALL

35-22-00

Page 505
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-22-00-720-014

- (16) Make sure the PASS OXY ON light does not come on.

NOTE: Both MASTER CAUTION lights will extinguish, if no other master caution annunciators come on.

SUBTASK 35-22-00-720-017

- (17) Remove the safety tags and close these circuit breakers:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	7	C00156	OXYGEN IND
F	9	C00784	OXYGEN PASS RIGHT

SUBTASK 35-22-00-720-018

- (18) Make sure the PASS OXY ON light on the P5-14 panel comes on.

SUBTASK 35-22-00-720-019

- (19) Make sure all of the right side oxygen box doors unlatch and drop down against the test stop buttons.

SUBTASK 35-22-00-720-020

- (20) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	7	C00156	OXYGEN IND
F	9	C00784	OXYGEN PASS RIGHT

SUBTASK 35-22-00-720-021

- (21) Make sure the PASS OXY ON light (P5-14 panel) does not show.

SUBTASK 35-22-00-720-022

- (22) Slowly remove the vacuum to the altitude pressure switch, S813.

SUBTASK 35-22-00-080-001

- (23) Do these steps to remove the altitude simulation test equipment from the pressure switch:

- Remove the test equipment.
- If necessary, install the two screws that hold the altitude pressure switch, S813, to the J23 BOX.
- Install the cover to the J23 BOX with the four screws.

SUBTASK 35-22-00-720-024

- (24) Do the subsequent procedure to continue the functional test.

G. Manual Deploy Functional Test

SUBTASK 35-22-00-720-025

- Do these steps for the ASU's, LSU's and PSU's on the left and right side of the passenger cabin (Figure 503):
 - Close and latch the oxygen box door.
 - Using a small flat tool, push up on the door latch lever.

NOTE: The door latch lever is located forward of the test stop button.
 - Push the door closed.

EFFECTIVITY
HAP ALL

D633A101-HAP

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35-22-00

Page 506
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

(b) Pull down on the test stop button.

(c) Turn the test stop button counter-clockwise 90 degrees to the test stop position.

SUBTASK 35-22-00-860-007

(2) Make sure that this circuit breaker is closed:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	8	C00785	OXYGEN MAN CONT

SUBTASK 35-22-00-720-026

(3) Remove the safety tags and close these circuit breakers:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	7	C00156	OXYGEN IND
F	10	C00783	OXYGEN PASS LEFT

SUBTASK 35-22-00-865-001

(4) Make sure that this circuit breaker is open and has safety tag:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	9	C00784	OXYGEN PASS RIGHT

SUBTASK 35-22-00-720-028

(5) Push the PASS OXYGEN switch on the P5-14 panel, to the ON position, momentarily, and then release the switch back to the NORMAL position (Figure 501).

SUBTASK 35-22-00-720-029

(6) Make sure the PASS OXY ON light on the P5-14 panel comes on.

SUBTASK 35-22-00-720-030

(7) Make sure that the doors of the PSU oxygen boxes on the left side of the passenger cabin unlatch and drop down against the test stops.

SUBTASK 35-22-00-720-031

(8) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	7	C00156	OXYGEN IND
F	10	C00783	OXYGEN PASS LEFT

SUBTASK 35-22-00-720-032

(9) Make sure the PASS OXY ON light on the P5-14 panel goes off.

SUBTASK 35-22-00-720-033

(10) Remove the safety tags and close these circuit breakers:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	7	C00156	OXYGEN IND
F	9	C00784	OXYGEN PASS RIGHT

EFFECTIVITY
HAP ALL

35-22-00

Page 507
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-22-00-720-034

- (11) Make sure the PASS OXY ON light on the P5-14 panel remains off.

SUBTASK 35-22-00-720-035

- (12) Put the PASS OXYGEN switch on the P5-14 panel, to the ON position, momentarily, and then release the switch back to the NORMAL position.

SUBTASK 35-22-00-720-036

- (13) Make sure the PASS OXY ON light on the P5-14 panel comes on.

SUBTASK 35-22-00-720-037

- (14) Make sure that the doors of the PSU oxygen boxes on the right side of the passenger cabin unlatch and drop down against the test stops.

SUBTASK 35-22-00-720-038

- (15) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	7	C00156	OXYGEN IND
F	9	C00784	OXYGEN PASS RIGHT

SUBTASK 35-22-00-720-039

- (16) Make sure the PASS OXY ON light on the P5-14 panel goes off.

SUBTASK 35-22-00-720-041

- (17) Do these steps to close the oxygen box doors on all of the service units:

NOTE: Oxygen mask doors are installed on these service units: attendant service units (ASU), lavatory service units (LSU), and passenger service units (PSU).

- Hold the oxygen box door in the closed position.
- Turn the test stop button 90 degrees clockwise.
- Push the test stop button up until you hear the sound of a click.

NOTE: The sound of the click shows that the actuator is set.

- Release the test stop button.
- Close and latch the mask box door.

- Using a small flat tool, push up on the door latch lever.

Do these steps again for the remaining oxygen mask doors on these service units:

- PSUs
- ASUs
- LSUs.

NOTE: The door latch lever is located forward of the test stop button.

- Push the door closed.

H. Put the System Back to the Usual Condition

SUBTASK 35-22-00-865-002

- (1) Make sure that these circuit breakers are closed:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	7	C00156	OXYGEN IND

EFFECTIVITY
HAP ALL

35-22-00

Page 508
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	8	C00785	OXYGEN MAN CONT
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

SUBTASK 35-22-00-710-001

(2) Do this task: Remove Electrical Power, TASK 24-22-00-860-812.

————— **END OF TASK** —————

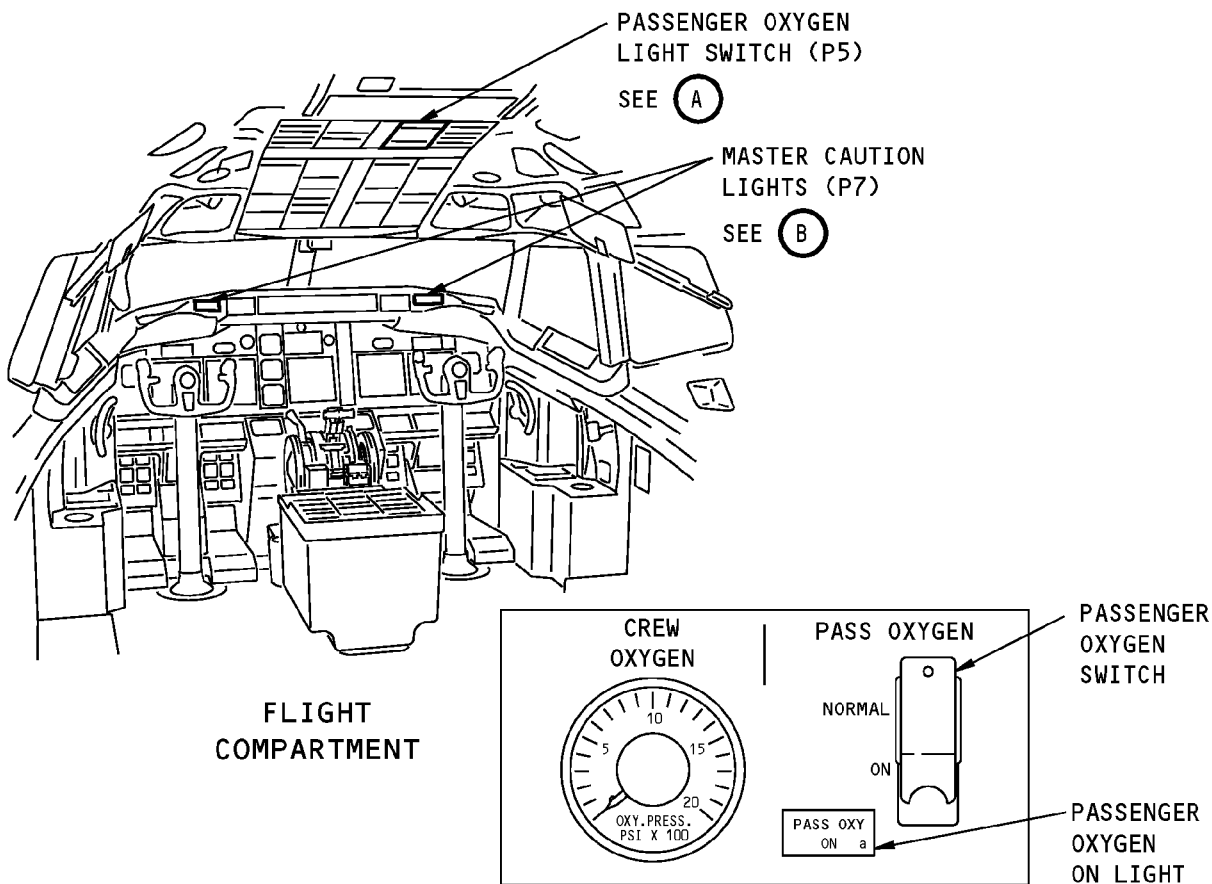
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HAP ALL

D633A101-HAP

35-22-00

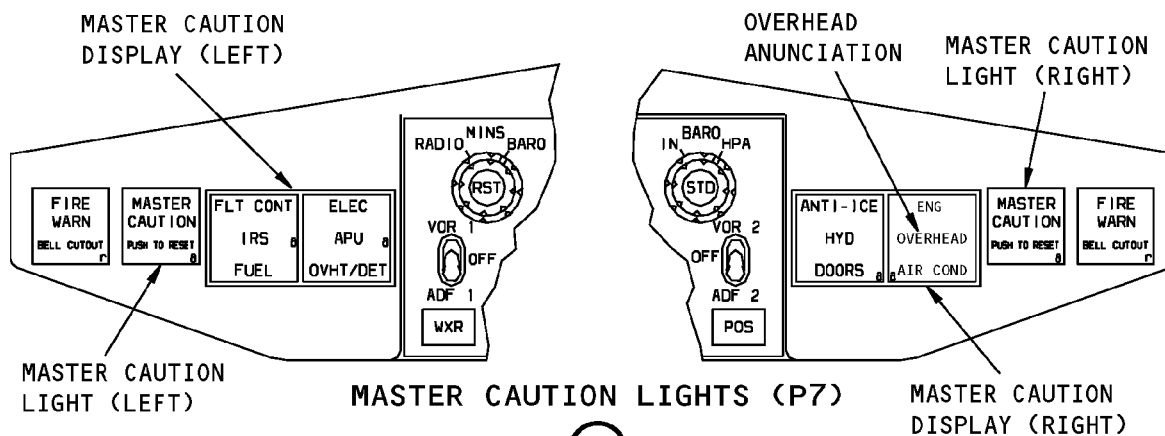
Page 509
Feb 15/2009

AIRCRAFT MAINTENANCE MANUAL



PASSENGER OXYGEN LIGHT SWITCH (P5)

(A)



(B)

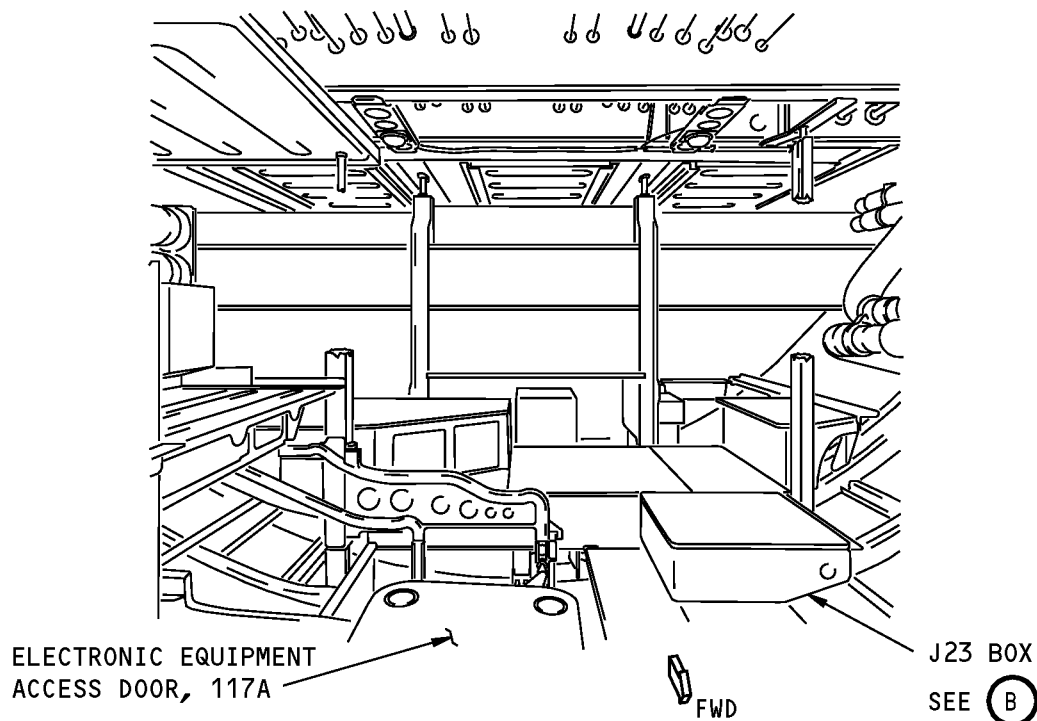
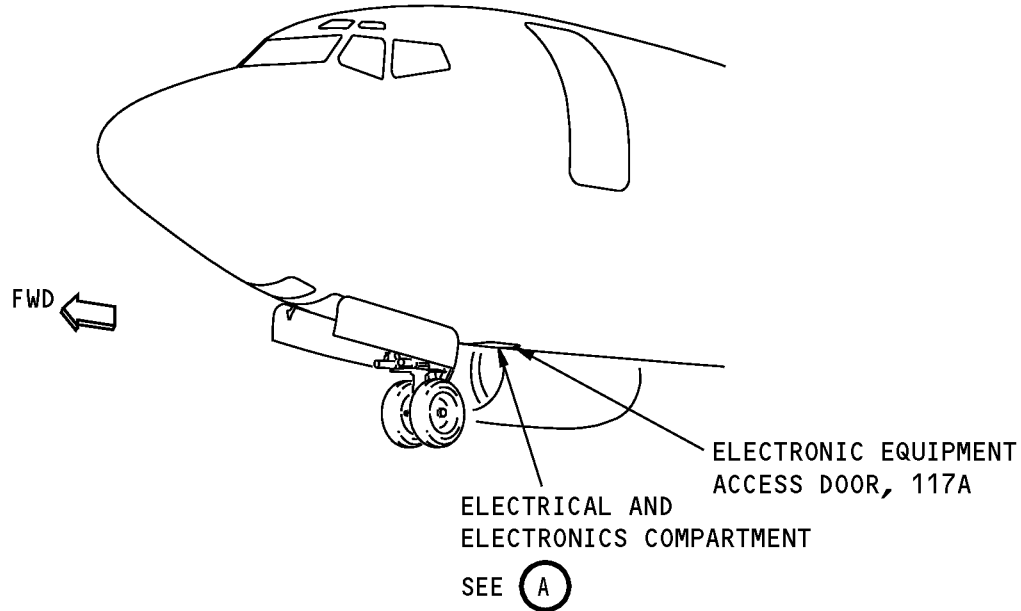
Passenger Oxygen - Flight Compartment Panels
Figure 501/35-22-00-990-801

EFFECTIVITY
HAP ALL

35-22-00



737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL



ELECTRICAL AND ELECTRONICS COMPARTMENT

(A)

Passenger Oxygen - Automatic Pressure Switch
Figure 502 (Sheet 1 of 2)/35-22-00-990-802

EFFECTIVITY
HAP ALL

35-22-00

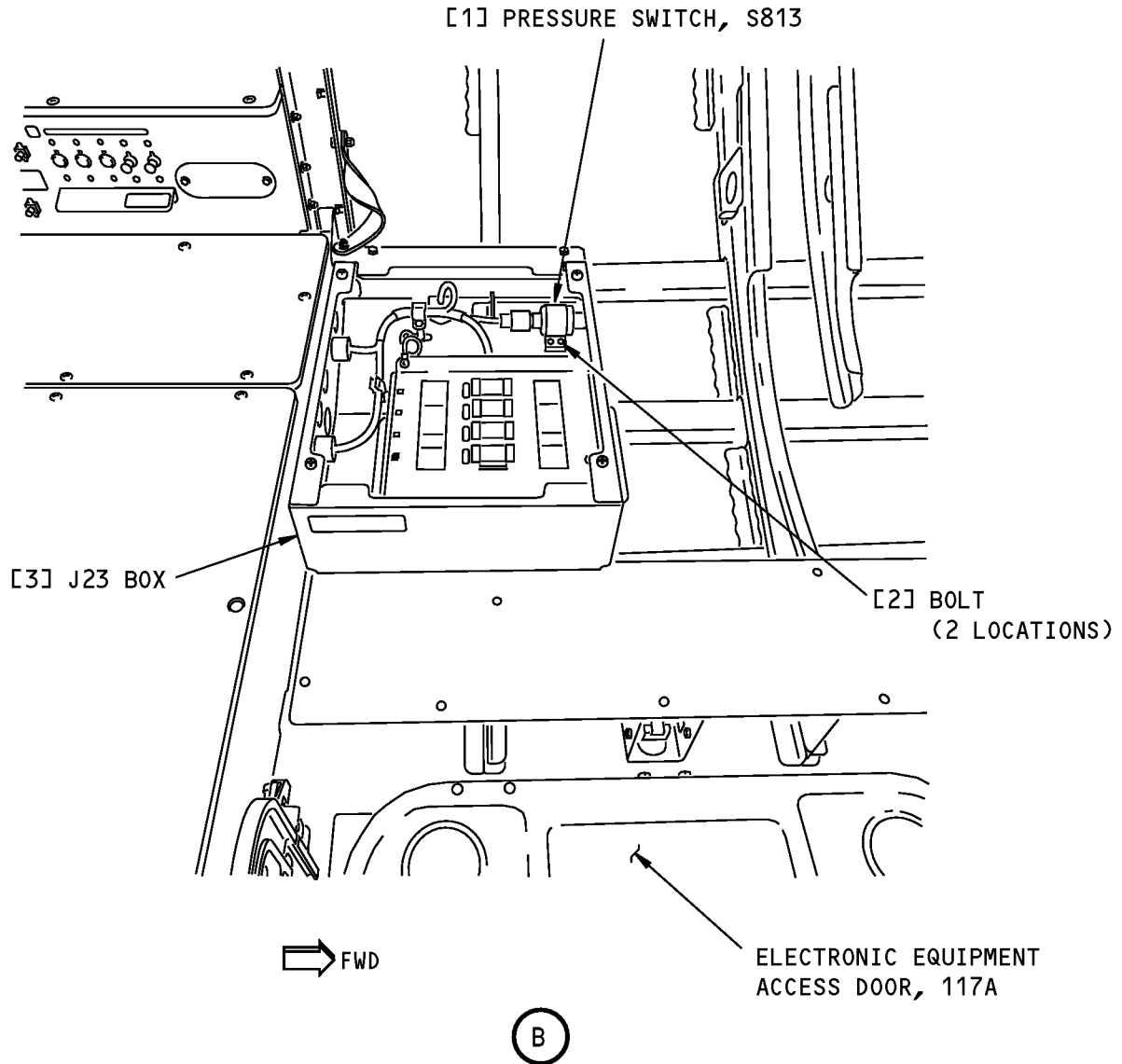
Page 511
Feb 15/2009

D633A101-HAP

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737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL



Passenger Oxygen - Automatic Pressure Switch
Figure 502 (Sheet 2 of 2)/35-22-00-990-802

EFFECTIVITY
HAP ALL

35-22-00

Page 512
Feb 15/2009

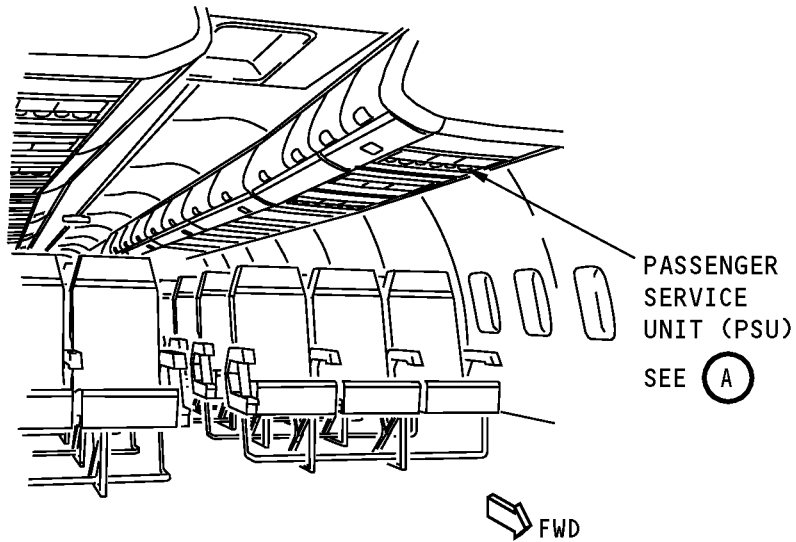
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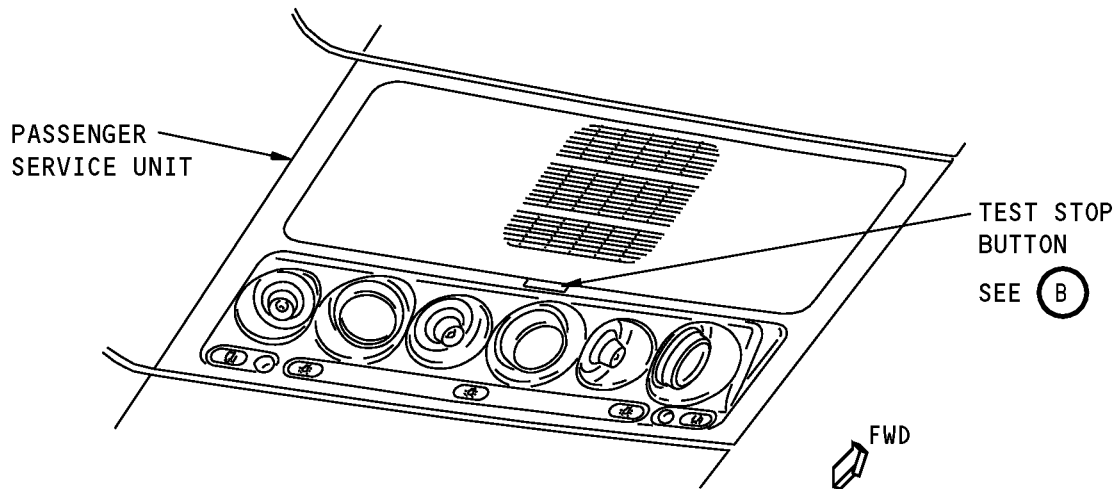


737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL



PASSENGER COMPARTMENT



PASSENGER SERVICE UNIT (PSU)

(A)

NOTE: TEST STOP BUTTON SHOWN FOR THE PASSENGER SERVICE UNITS.
THE LAVATORY AND ATTENDANT SERVICE UNITS ARE ALMOST THE SAME.

Passenger Oxygen - Mask Box Door Operation Figure 503 (Sheet 1 of 2)/35-22-00-990-803

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HAP ALL

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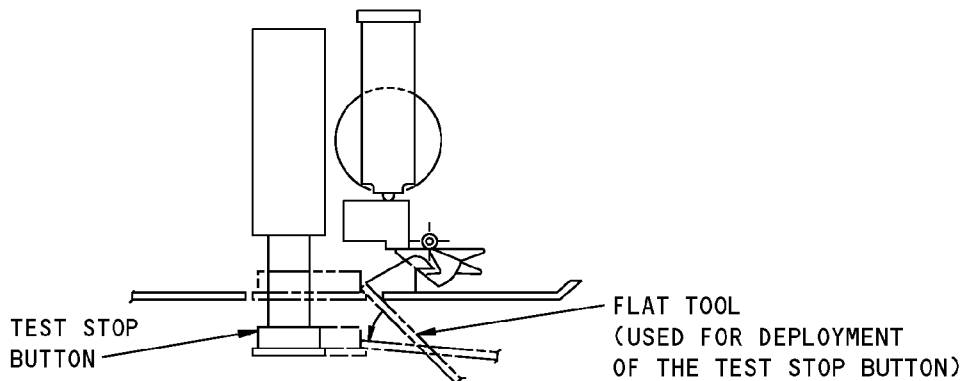
35-22-00

Page 513
Feb 15/2009



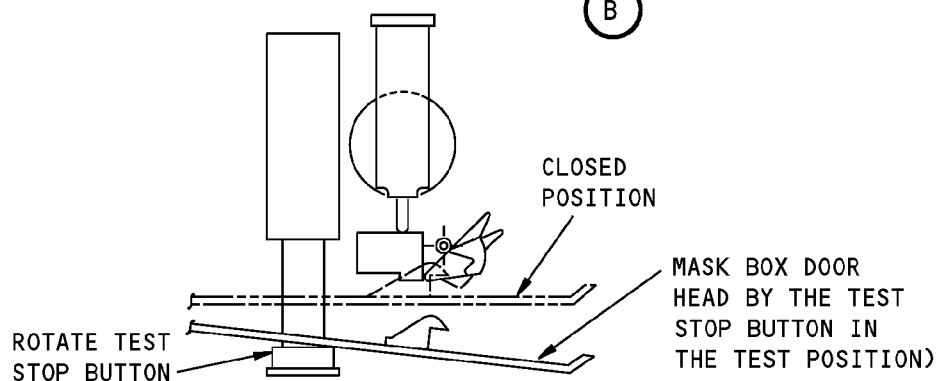
737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL



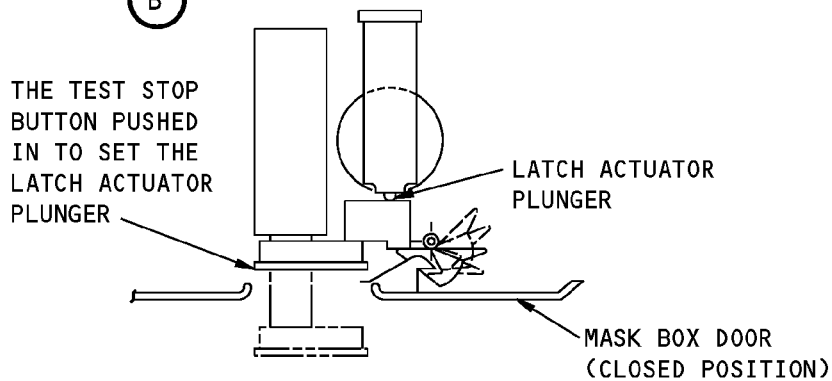
DEPLOYMENT OF THE TEST STOP BUTTON

(B)



MASK BOX DOOR IN THE TEST POSITION

(B)



LATCH ACTUATOR PLUNGER IN THE SET POSITION BEFORE THE MASK BOX DOOR IS CLOSED

(B)

Passenger Oxygen - Mask Box Door Operation
Figure 503 (Sheet 2 of 2)/35-22-00-990-803

EFFECTIVITY
HAP ALL

35-22-00

Page 514
Feb 15/2009

D633A101-HAP

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737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 35-22-00-210-801

3. Visual Inspection of the Heat-Sensitive Band On Oxygen Generator

A. General

- (1) This procedure is a scheduled maintenance task.

B. References

Reference	Title
25-23-61-000-801	Passenger Service Unit (PSU) Removal (P/B 201)
25-23-61-400-801	Passenger Service Unit (PSU) Installation (P/B 201)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-11-000-804-001	PSU Oxygen Generator Removal (P/B 401)
35-22-11-000-805-001	ASU Oxygen Generator Removal (P/B 401)
35-22-11-000-806-001	LSU Oxygen Generator Removal (P/B 401)
35-22-11-400-804-001	PSU Oxygen Generator Installation (P/B 401)
35-22-11-400-805-001	ASU Oxygen Generator Installation (P/B 401)
35-22-11-400-806-001	LSU Oxygen Generator Installation (P/B 401)
35-22-31-000-804-001	ASU and LSU Oxygen Mask Packing (P/B 201)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Prepare to Inspect the Heat-Sensitive Band On the Oxygen Generator

SUBTASK 35-22-00-910-002

- (1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-22-00-010-001

- (2) Get access to the oxygen mask as follows:
 - (a) For the passenger oxygen mask, to lower the applicable PSU, do this task: Passenger Service Unit (PSU) Removal, TASK 25-23-61-000-801.
 - (b) For the attendant or lavatory oxygen mask, do these steps:
 - 1) Go to the applicable ASU or LSU.
 - 2) Put a tool into the latch access hole.
 - 3) Push up on the tool to operate the door latch.
 - 4) Open the oxygen box door.
 - 5) Let the oxygen masks to fall.

E. Inspect the Heat-Sensitive Band On the Oxygen Generator

SUBTASK 35-22-00-010-002

- (1) Make sure the heat-sensitive band on the oxygen generator is not black.

NOTE: If the heat-sensitive band on the oxygen generator is black, the oxygen generator has fired.

EFFECTIVITY
HAP ALL

35-22-00

Page 515
Feb 15/2009

D633A101-HAP

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737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-22-00-210-001

- (2) If the heat-sensitive band on the oxygen generator not is black, the oxygen generator is in serviceable condition.

SUBTASK 35-22-00-210-002

- (3) If the heat-sensitive band on the oxygen generator is black, replace the applicable oxygen generator.

- (a) Do these steps to replace the PSU oxygen generator.

These are the tasks:

PSU Oxygen Generator Removal, TASK 35-22-11-000-804-001,

PSU Oxygen Generator Installation, TASK 35-22-11-400-804-001.

- (b) Do these steps to replace the ASU oxygen generator.

These are the tasks:

ASU Oxygen Generator Removal, TASK 35-22-11-000-805-001,

ASU Oxygen Generator Installation, TASK 35-22-11-400-805-001.

- (c) Do these steps to replace the LSU oxygen generator.

These are the tasks:

LSU Oxygen Generator Removal, TASK 35-22-11-000-806-001,

LSU Oxygen Generator Installation, TASK 35-22-11-400-806-001.

SUBTASK 35-22-00-530-001

- (4) To pack the oxygen mask for the ASU and LSU oxygen box, do this task: ASU and LSU Oxygen Mask Packing, TASK 35-22-31-000-804-001.

SUBTASK 35-22-00-410-001

- (5) Close the access for the oxygen mask as follows:

- (a) For the passenger oxygen mask, to close the PSU, do this task: Passenger Service Unit (PSU) Installation, TASK 25-23-61-400-801.

- (b) For the attendant or lavatory oxygen mask, do these steps to close the oxygen box door:

- 1) Hold the oxygen box door.
- 2) Remove the masking tape from the oxygen box door (if installed).
- 3) Push the reset lever on the latch actuator plunger to set the actuator again.
- 4) Close and latch the oxygen box door.
- 5) Do a visual check of the door alignment to make sure the oxygen equipment is not caught in the oxygen box door or in the actuator.

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

35-22-00

Page 516
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

OXYGEN GENERATOR - MAINTENANCE PRACTICES

1. General

- A. This procedure contains scheduled maintenance task data.
- B. This procedure has these tasks:
 - (1) Passenger oxygen generator deactivation.
 - (2) Passenger oxygen generator activation.
- C. All replacement oxygen generators are supplied with a safety pin. The safety pin is installed in the firing mechanism of the oxygen generator. The generator cannot fire (start oxygen flow) when the safety pin is correctly installed. The generator is safe to touch when the safety pin is installed.
- D. In addition to the safety pin, a secondary safety device is used for the transport of the spare oxygen generator. This secondary safety device must be removed from the firing pins release pin hole, before the release pin can be installed.
- E. The safety pin is to be installed (oxygen generator deactivation) in the oxygen generator firing mechanism whenever the generator, oxygen box, or service unit is removed from the airplane. Once the generator, oxygen box, or service unit is installed, the safety pin must be removed (oxygen generator activation) prior to returning the aircraft to service.
- F. All service units have at least one oxygen generator. The generator supplies oxygen to each of the connected oxygen masks. Each generator has a color stripe around the generator body to show if the oxygen generator has been previously fired. The flow of oxygen is begun by the downward pull of the oxygen mask by the passenger, providing that the generator has been properly activated.
- G. It is necessary to use an approved pair of pin retraction pliers and a safety pin to deactivate an oxygen generator.

TASK 35-22-11-000-811-001

2. Oxygen Generator Deactivation

(Figure 201)

- A. General
 - (1) This procedure is a scheduled maintenance task.
- B. References

Reference	Title
35-22-11-000-804-001	PSU Oxygen Generator Removal (P/B 401)
35-22-11-000-805-001	ASU Oxygen Generator Removal (P/B 401)
35-22-11-000-806-001	LSU Oxygen Generator Removal (P/B 401)
35-22-11-400-804-001	PSU Oxygen Generator Installation (P/B 401)
35-22-11-400-805-001	ASU Oxygen Generator Installation (P/B 401)
35-22-11-400-806-001	LSU Oxygen Generator Installation (P/B 401)
35-22-31-000-804-001	ASU and LSU Oxygen Mask Packing (P/B 201)

- C. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

EFFECTIVITY
HAP ALL

D633A101-HAP

35-22-11

Config 1
Page 201
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

Reference	Description
SPL-1935	Pliers - Firing Pin Retraction, Draeger Oxygen Generator (Part #: E71516-00, Supplier: D1379, A/P Effectivity: 737-600, -700, -700C, -700ER, -700QC, -800, -900, -900ER, -BBJ)
SPL-1937	Equipment - Firing Pin Retraction, BE Aerospace and AVOX oxygen generators (Part #: C35003-1, Supplier: 81205, A/P Effectivity: 737-200, -300, -400, -500, -600, -700, -700ER, -800, -900, -900ER) (Opt Part #: A35001-10, Supplier: 81205, A/P Effectivity: 737-ALL)

D. Location Zones

Zone	Area
200	Upper Half of Fuselage

E. Procedure

SUBTASK 35-22-11-010-034-001

- (1) Open the service unit as applicable to get access to the oxygen generator.
 - (a) For the Passenger Service Unit (PSU), do these steps to lower the PSU:
 - 1) Put a rod into the latch access hole (2 locations).
 - 2) Push up on the rod to unlatch the cam latches.
 - 3) Lower the PSU.
 - (b) For the Attendant Service Unit (ASU) or Lavatory Service Unit (LSU), do these steps:
 - 1) Put a rod or flat tool into the latch access hole or door gap, as applicable.
 - 2) Push up on the tool to unlatch the door latch.
 - 3) Open the oxygen box door.
 - 4) Let the oxygen masks fall out.

SUBTASK 35-22-11-210-025-001

- (2) Do these checks before you deactivate the oxygen generator [1]:
 - (a) Make sure the heat-sensitive band on the oxygen generator [1] is not black.

NOTE: If the heat-sensitive band is black, the oxygen generator [1] has fired.
 - (b) Make sure a release pin [2] or a firing pin retraction pliers and safety pin, SPL-1937 [6] is installed in the firing pin [3].

NOTE: If the firing pin [3] is in the fired position (the firing pin retraction pliers and safety pin, SPL-1937 [6] cannot be installed), the oxygen generator [1] has fired or the firing mechanism is bad.
 - (c) Make sure the oxygen generator [1] is not damaged.

SUBTASK 35-22-11-020-032-001

- (3) If the oxygen generator [1] has fired or is damaged, replace the oxygen generator [1].
 - (a) Replace a Passenger Service Unit (PSU) oxygen generator. These are the tasks:
PSU Oxygen Generator Removal, TASK 35-22-11-000-804-001,
PSU Oxygen Generator Installation, TASK 35-22-11-400-804-001.
 - (b) Replace a Attendant Service Unit (ASU) oxygen generator. These are the tasks:
ASU Oxygen Generator Removal, TASK 35-22-11-000-805-001,
ASU Oxygen Generator Installation, TASK 35-22-11-400-805-001.

EFFECTIVITY
HAP ALL

D633A101-HAP

35-22-11

Config 1
Page 202
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (c) Replace a Lavatory Service Unit (LSU) oxygen generator. These are the tasks:
 - LSU Oxygen Generator Removal, TASK 35-22-11-000-806-001,
 - LSU Oxygen Generator Installation, TASK 35-22-11-400-806-001.

SUBTASK 35-22-11-040-018-001

- (4) If the oxygen generator [1] has not fired, deactivate the oxygen generator.

F. Oxygen Generator Deactivation

SUBTASK 35-22-11-040-019-001

WARNING: MAKE SURE THE SAFETY PIN IS INSTALLED PRIOR TO HANDLING THE OXYGEN GENERATOR. THE GENERATOR IS A PYROTECHNIC DEVICE. WHEN THE GENERATOR FIRES, IT WILL GET VERY HOT (450°F OR MORE). CONTACT WITH A HOT GENERATOR CAN CAUSE INJURY TO PERSONS OR DAMAGE TO EQUIPMENT.

CAUTION: DO NOT TRY TO REMOVE THE FIRING MECHANISM FROM THE OXYGEN GENERATOR. IT CANNOT BE ASSEMBLED AGAIN.

- (1) Do these steps to deactivate the oxygen generator [1]:
 - (a) Put the firing pin retraction pliers, SPL-1935 [4] between the release pin [2] and the generator firing mechanism [3].
 - (b) Use the firing pin retraction pliers, SPL-1935 [4] to carefully move the firing pin [3] (with release pin installed) away from the firing mechanism [5].

NOTE: Do not release the firing pin retraction pliers, SPL-1935 [4].

CAUTION: MAKE SURE THAT THE RELEASE PIN IS INSTALLED IN THE LARGER OF THE TWO HOLES, AND THAT THE SAFETY PIN IS INSTALLED IN THE SMALLER OF THE TWO HOLES IN THE FIRING PIN. FAILURE TO DO SO COULD PREVENT THE OXYGEN GENERATOR FROM PROPERLY ACTIVATING WHEN THE MASKS ARE DEPLOYED.

- (c) Install the safety firing pin retraction pliers and safety pin, SPL-1937 [6] into the hole in the firing pin [3] between the firing mechanism [5] and the release pin [2].

NOTE: Do not remove the release pin [2].

- (d) Carefully release the firing pin retraction pliers, SPL-1935 [4].
- (e) Remove the firing pin retraction pliers, SPL-1935 [4].

SUBTASK 35-22-11-410-031-001

- (2) If no more maintenance is necessary, close the service unit as applicable.
 - (a) For the Passenger Service Unit (PSU), push the PSU panel upward to engage the cam latches.

NOTE: The latches will generally make a "click" sound when they fully engage.
 - (b) For the Attendant Service Unit (ASU), or Lavatory Service Unit (LSU), do these steps:
 - 1) To repack the oxygen masks, do this task: ASU and LSU Oxygen Mask Packing, TASK 35-22-31-000-804-001.
 - 2) Close the oxygen box door and push on it to engage the door latch.

NOTE: The latch will generally make a "click" sound when it fully engages.

EFFECTIVITY
HAP ALL

D633A101-HAP

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35-22-11

Config 1
Page 203
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-22-11-970-009-001

- (3) Update the airplane records to indicate the oxygen generators that have been deactivated and must be activated before the airplane is returned to service.

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

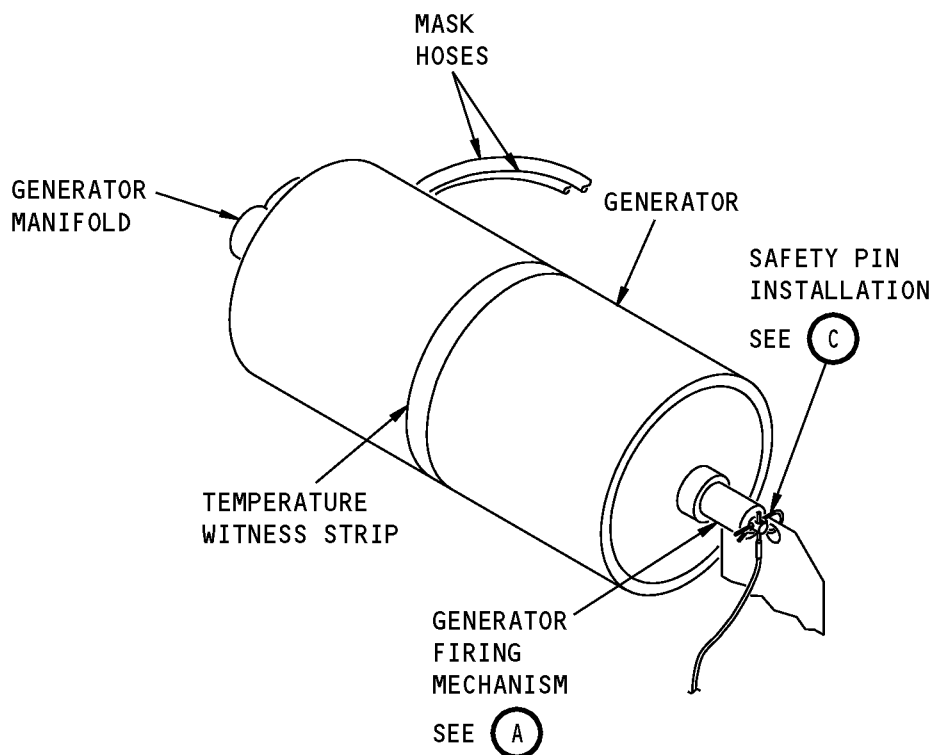
D633A101-HAP

35-22-11

Config 1
Page 204
Feb 15/2009



737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL



OXYGEN GENERATOR
(EXAMPLE)

Oxygen Generator Activation/Deactivation
Figure 201 (Sheet 1 of 3)/35-22-11-990-801-001

EFFECTIVITY
HAP ALL

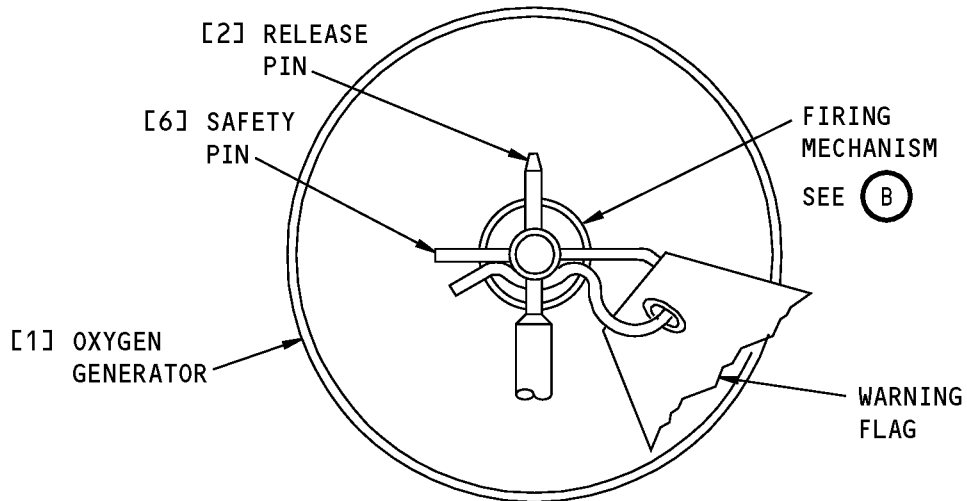
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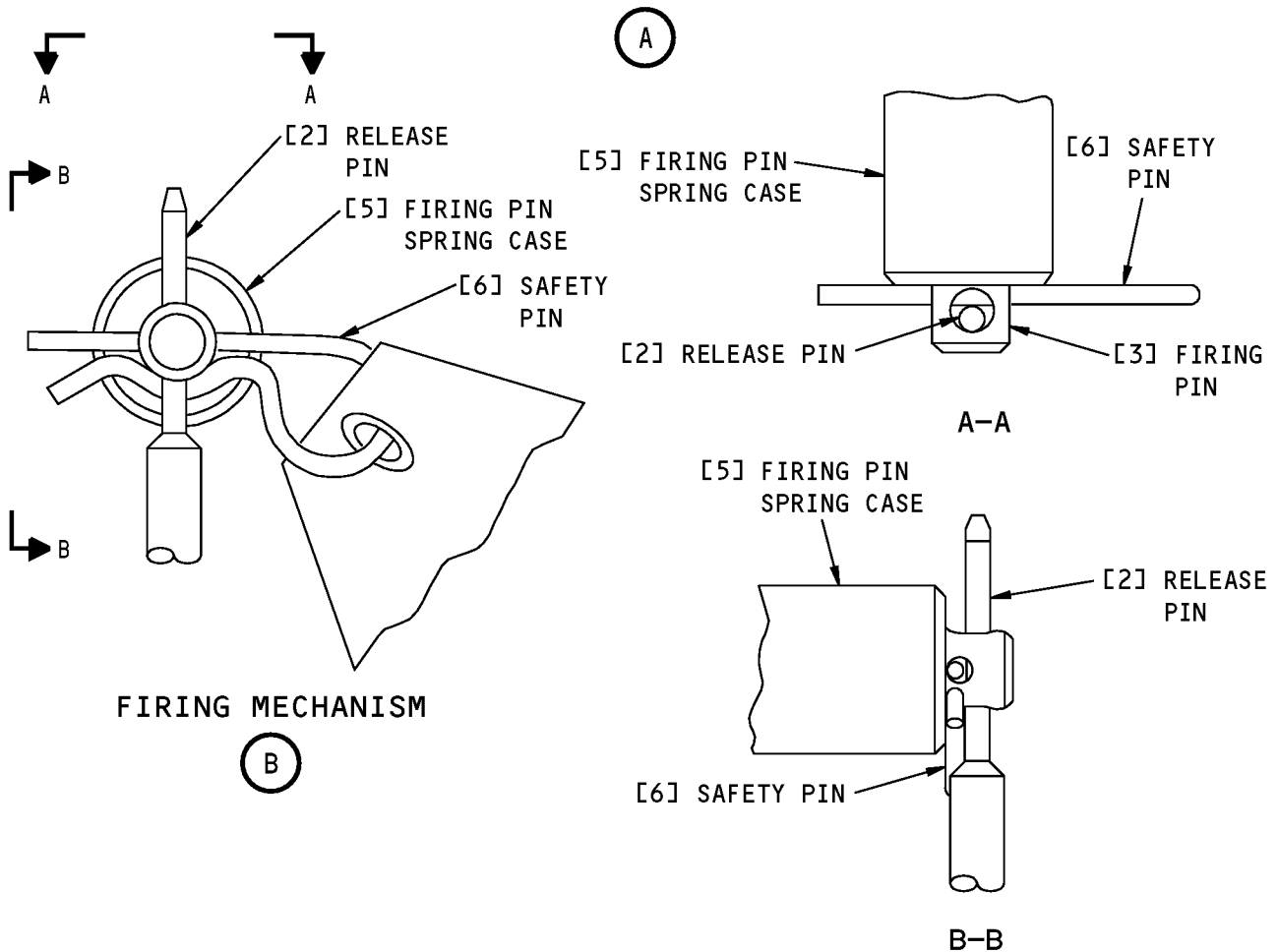
35-22-11

Config 1
Page 205
Feb 15/2009

AIRCRAFT MAINTENANCE MANUAL



OXYGEN GENERATOR FIRING MECHANISM



Oxygen Generator Activation/Deactivation
Figure 201 (Sheet 2 of 3)/35-22-11-990-801-001

EFFECTIVITY
HAP ALL

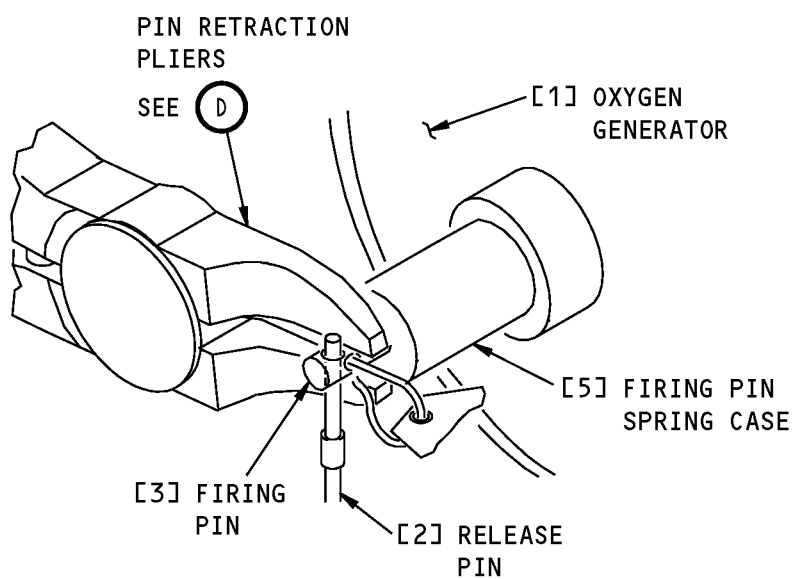
D633A101-HAP

35-22-11

Config 1
Page 206
Feb 15/2009

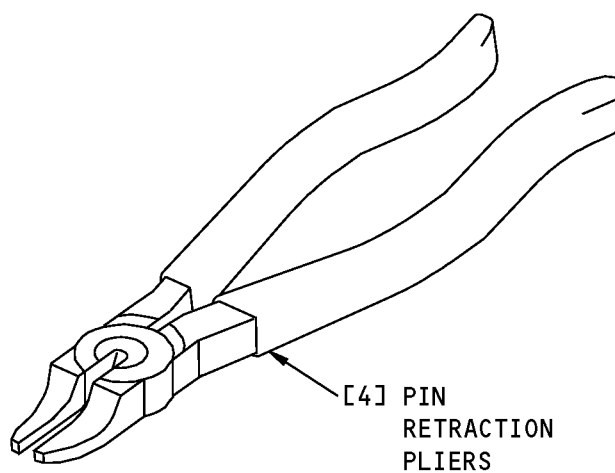


737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL



SAFETY PIN INSTALLATION

(C)



PIN RETRACTION PLIERS

(D)

Oxygen Generator Activation/Deactivation
Figure 201 (Sheet 3 of 3)/35-22-11-990-801-001

EFFECTIVITY
HAP ALL

D633A101-HAP

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35-22-11

Config 1
Page 207
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 35-22-11-400-811-001

3. Oxygen Generator Activation

(Figure 201)

A. General

- (1) This procedure is a scheduled maintenance task.

B. References

Reference	Title
35-22-11-000-804-001	PSU Oxygen Generator Removal (P/B 401)
35-22-11-000-805-001	ASU Oxygen Generator Removal (P/B 401)
35-22-11-000-806-001	LSU Oxygen Generator Removal (P/B 401)
35-22-11-400-804-001	PSU Oxygen Generator Installation (P/B 401)
35-22-11-400-805-001	ASU Oxygen Generator Installation (P/B 401)
35-22-11-400-806-001	LSU Oxygen Generator Installation (P/B 401)
35-22-31-000-804-001	ASU and LSU Oxygen Mask Packing (P/B 201)

C. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
SPL-1935	Pliers - Firing Pin Retraction, Draeger Oxygen Generator (Part #: E71516-00, Supplier: D1379, A/P Effectivity: 737-600, -700, -700C, -700ER, -700QC, -800, -900, -900ER, -BBJ)
SPL-1937	Equipment - Firing Pin Retraction, BE Aerospace and AVOX oxygen generators (Part #: C35003-1, Supplier: 81205, A/P Effectivity: 737-200, -300, -400, -500, -600, -700, -700ER, -800, -900, -900ER) (Opt Part #: A35001-10, Supplier: 81205, A/P Effectivity: 737-ALL)

D. Location Zones

Zone	Area
200	Upper Half of Fuselage

E. Procedure

SUBTASK 35-22-11-010-035-001

- (1) Open the service unit as applicable to get access to the oxygen generator.
 - (a) For the Passenger Service Unit (PSU), do these steps to lower the PSU:
 - 1) Put a rod into the latch access hole (2 locations).
 - 2) Push up on the rod to unlatch the cam latches.
 - 3) Lower the PSU.
 - (b) For the Attendant Service Unit (ASU) or Lavatory Service Unit (LSU), do these steps:
 - 1) Put a rod or flat tool into the latch access hole or door gap, as applicable.
 - 2) Push up on the tool to unlatch the door latch.
 - 3) Open the oxygen box door.
 - 4) Let the oxygen masks fall out.

EFFECTIVITY
HAP ALL

D633A101-HAP

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35-22-11

Config 1
Page 208
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-22-11-010-036-001

(2) Do these checks before you activate the oxygen generator [1]:

(a) Make sure the heat-sensitive band on the oxygen generator [1] is not black.

NOTE: If the heat-sensitive band is black, the oxygen generator [1] has fired.

(b) Make sure a release pin [2] or a firing pin retraction pliers and safety pin, SPL-1937 [6] is installed in the firing pin [3].

NOTE: If the firing pin [3] is in the fired position (the firing pin retraction pliers and safety pin, SPL-1937 cannot be installed), the oxygen generator [1] has fired or the firing mechanism is bad.

(c) Make sure the oxygen generator [1] is not damaged.

SUBTASK 35-22-11-020-033-001

(3) If the oxygen generator [1] has fired or is damaged, replace the oxygen generator [1].

(a) Replace a Passenger Service Unit (PSU) oxygen generator. These are the tasks:

PSU Oxygen Generator Removal, TASK 35-22-11-000-804-001,

PSU Oxygen Generator Installation, TASK 35-22-11-400-804-001.

(b) Replace a Attendant Service Unit (ASU) oxygen generator. These are the tasks:

ASU Oxygen Generator Removal, TASK 35-22-11-000-805-001,

ASU Oxygen Generator Installation, TASK 35-22-11-400-805-001.

(c) Replace a Lavatory Service Unit (LSU) oxygen generator. These are the tasks:

LSU Oxygen Generator Removal, TASK 35-22-11-000-806-001,

LSU Oxygen Generator Installation, TASK 35-22-11-400-806-001.

SUBTASK 35-22-11-440-012-001

(4) If the oxygen generator [1] has not fired, activate the oxygen generator.

F. Oxygen Generator Activation

SUBTASK 35-22-11-410-032-001

(1) Do a check of the release cable routing to make sure the release pin [2] will pull away from the oxygen generator firing mechanism [5] when the oxygen masks are deployed.

SUBTASK 35-22-11-410-033-001

(2) Engage the firing pin retraction pliers, SPL-1935 [4] to release the pressure on the safety pin.

WARNING: MAKE SURE THE SAFETY PIN IS INSTALLED PRIOR TO HANDLING THE OXYGEN GENERATOR. THE GENERATOR IS A PYROTECHNIC DEVICE. WHEN THE GENERATOR FIRES, IT WILL GET VERY HOT (450°F OR MORE). CONTACT WITH A HOT GENERATOR CAN CAUSE INJURY TO PERSONS OR DAMAGE TO EQUIPMENT.

CAUTION: IN ADDITION TO THE SAFETY PIN, A SECONDARY SAFETY DEVICE IS USED FOR THE TRANSPORT OF THE SPARE OXYGEN GENERATOR. THIS SECONDARY SAFETY DEVICE MUST BE REMOVED FROM THE FIRING PINS RELEASE PIN HOLE, BEFORE THE RELEASE PIN CAN BE INSTALLED. FAILURE TO DO SO COULD PREVENT THE OXYGEN GENERATOR FROM PROPERLY ACTIVATING WHEN OXYGEN MASKS ARE DEPLOYED.

(3) Remove the secondary safety device, if installed, from the release pin hole in the firing pin.

NOTE: The release pin hole is the larger of the two holes on the firing pin.

EFFECTIVITY
HAP ALL

D633A101-HAP

35-22-11

Config 1
Page 209
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-22-11-210-029-001

(4) Inspect the release pin for defects.

(a) Remove and replace the release pin, if it is gauged, bent or corroded.

SUBTASK 35-22-11-210-030

WARNING: MAKE SURE THAT THE RELEASE CABLE HAS FREE TRAVEL. THE RELEASE CABLE PULLS THE RELEASE PIN WHEN THE MASKS COME DOWN DURING AN EMERGENCY. IF THE ROUTING OF THE RELEASE CABLE IS INCORRECT, THE OXYGEN DISTRIBUTION SYSTEM WILL NOT OPERATE. THIS CAN CAUSE INJURIES TO PASSENGERS.

(5) Make sure that the release cable is routed so that it is capable of free travel and does not bind on the PSU.

SUBTASK 35-22-11-410-034-001

CAUTION: MAKE SURE THAT THE RELEASE PIN IS INSTALLED IN THE LARGER OF THE TWO HOLES, AND THAT THE SAFETY PIN IS INSTALLED IN THE SMALLER OF THE TWO HOLES IN THE FIRING PIN. FAILURE TO DO SO COULD PREVENT THE OXYGEN GENERATOR [1] FROM PROPERLY ACTIVATING WHEN THE MASKS ARE DEPLOYED.

(6) Install the release pin [2] through the larger of the two holes in the firing pin.

NOTE: Some PSUs contain a placard, which specifies the location to align the release pin. If the placard is installed, align the release pin between the arrows on the placard. If the placard is not installed, center the release pin above the top of the No Smoking/Fasten Seat Belt Lamp Housing Assembly.

SUBTASK 35-22-11-410-035-001

(7) Make sure the release pin [2] is clearly visible protruding through the hole in the firing pin [3].

SUBTASK 35-22-11-410-036-001

(8) Put the firing pin retraction pliers, SPL-1935 [4] between the release pin [2] and the generator firing mechanism [5].

SUBTASK 35-22-11-410-037-001

(9) Use the firing pin retraction pliers, SPL-1935 [4] to carefully move the firing pin [3] (with the safety pin installed) away from the firing mechanism [5].

NOTE: Do not release the firing pin retraction pliers, SPL-1935 [4].

SUBTASK 35-22-11-410-038-001

(10) Carefully remove the firing pin retraction pliers and safety pin, SPL-1937 [6].

SUBTASK 35-22-11-410-039-001

(11) Release the firing pin retraction pliers, SPL-1935 [4].

SUBTASK 35-22-11-410-040-001

(12) If no more maintenance is necessary, close the applicable service unit.

(a) For the Passenger Service Unit (PSU), push the PSU panel upward to engage the cam latches.

NOTE: The latches will generally make a "click" sound when they fully engage.

(b) For the Attendant Service Unit (ASU), or Lavatory Service Unit (LSU), do these steps:

1) To repack the oxygen masks, do this task: ASU and LSU Oxygen Mask Packing, TASK 35-22-31-000-804-001.

EFFECTIVITY
HAP ALL

D633A101-HAP

35-22-11

Config 1
Page 210
Jun 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- 2) Close the oxygen box door and push on it to engage the door latch.

NOTE: The latch will generally make a "click" sound when it fully engages.

SUBTASK 35-22-11-970-010-001

- (13) Update the airplane records to indicate that the oxygen generators have been activated to return the airplane to service.

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

D633A101-HAP

35-22-11

Config 1
Page 211
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

OXYGEN GENERATOR - REMOVAL/INSTALLATION

1. General

- A. This procedure contains scheduled maintenance task data.
- B. This procedure contains these tasks:
 - (1) Passenger Service Unit (PSU) Oxygen Generator Removal
 - (2) PSU Oxygen Generator Installation
 - (3) Attendant Service Unit (ASU) Oxygen Generator Removal
 - (4) ASU Oxygen Generator Installation
 - (5) Lavatory Service Unit (LSU) Oxygen Generator Removal
 - (6) LSU Oxygen Generator Installation.
- C. Before you do maintenance on an oxygen system component that contains an oxygen generator you must install a safety pin in the oxygen generator firing mechanism. The safety pin will permit the oxygen generator to be handled and stored. If the safety pin is not installed, the oxygen generator can fire.
- D. All spare oxygen generators are supplied with a safety pin installed in the firing mechanism.
- E. When you do the removal and installation procedures for the ASUs and the LSUs, it is necessary to open the oxygen box door. When the oxygen box door is opened, the oxygen masks will drop (deploy). After you install the oxygen generator, you must then do the packing procedure for the oxygen masks.

TASK 35-22-11-000-804-001

2. PSU Oxygen Generator Removal

(Figure 401)

- A. General
 - (1) This procedure is a scheduled maintenance task.
- B. References

Reference	Title
35-22-11-000-811-001	Oxygen Generator Deactivation (P/B 201)

- C. Location Zones

Zone	Area
200	Upper Half of Fuselage

- D. Prepare the PSU Oxygen Generator(s) for Removal

SUBTASK 35-22-11-010-010-001

- (1) To lower the passenger service unit(s) (PSU), do these steps:
 - (a) Put a rod into the latch access hole (2 locations)
 - (b) Push up on the rod to unlatch the cam latches
 - (c) Lower the PSU.

EFFECTIVITY
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D633A101-HAP

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35-22-11

Config 1
Page 401
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-22-11-040-009-001

WARNING: MAKE SURE A RELEASE PIN OR A SAFETY PIN (WITH A WARNING FLAG) IS INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF A PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F (230°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (APPROXIMATELY ONE HOUR).

- (2) If the oxygen generator has not fired, do this task: Oxygen Generator Deactivation, TASK 35-22-11-000-811-001.

NOTE: If the oxygen generator has fired, it is not necessary to deactivate the oxygen generator.

E. PSU Oxygen Generator Removal

NOTE: When you do the removal procedure, do not loosen or remove the cable pulleys on the PSU.

SUBTASK 35-22-11-020-007-001

- (1) Remove the oxygen supply line [6] from the manifold [2] on the oxygen generator [1] (View B).

SUBTASK 35-22-11-020-008-001

- (2) Remove the screw [3] and washer [4] from the strap [5].

(a) Keep the fasteners for the installation.

SUBTASK 35-22-11-010-011-001

- (3) Move the strap [5] away from the oxygen generator [1].

SUBTASK 35-22-11-020-009-001

CAUTION: YOU MUST BE VERY CAREFUL WHEN YOU INSTALL AND REMOVE AN OXYGEN GENERATOR. DO NOT DAMAGE THE OXYGEN GENERATOR OR LET IT FALL. IF THE OXYGEN GENERATOR IS DAMAGED, IT IS POSSIBLE THAT THE OXYGEN GENERATOR WILL NOT FIRE.

CAUTION: DO NOT TRY TO REMOVE THE FIRING MECHANISM FROM THE OXYGEN GENERATOR. IT CANNOT BE ASSEMBLED AGAIN.

- (4) Do these steps to remove the PSU oxygen generator [1] (View B):
- (a) Make sure a safety pin [7] is installed in the firing pin on the oxygen generator [1].
- (b) Pull the release pin from the firing pin.

WARNING: MAKE SURE YOU OBEY ALL APPLICABLE REGULATORY REQUIREMENTS FOR THE TRANSPORT OF OXYGEN GENERATORS. IF THE SERVICE LIFE OF THE GENERATORS HAS EXPIRED, YOU MUST FIRE THE GENERATORS AND MAKE SURE THE OXIDIZER CORE IS EMPTY. THIS MUST BE DONE BEFORE YOU PREPARE THE GENERATORS FOR TRANSPORT. IF THE GENERATORS ARE NOT FIRED AND EMPTY, THEY CAN ACCIDENTALLY FIRE DURING TRANSPORT AND CAUSE HEAT AND IGNITION. THIS CAN CAUSE DEATH OR INJURY TO PERSONS AND DAMAGE TO THE AIRCRAFT.

- (c) Remove the oxygen generator [1].

————— **END OF TASK** —————

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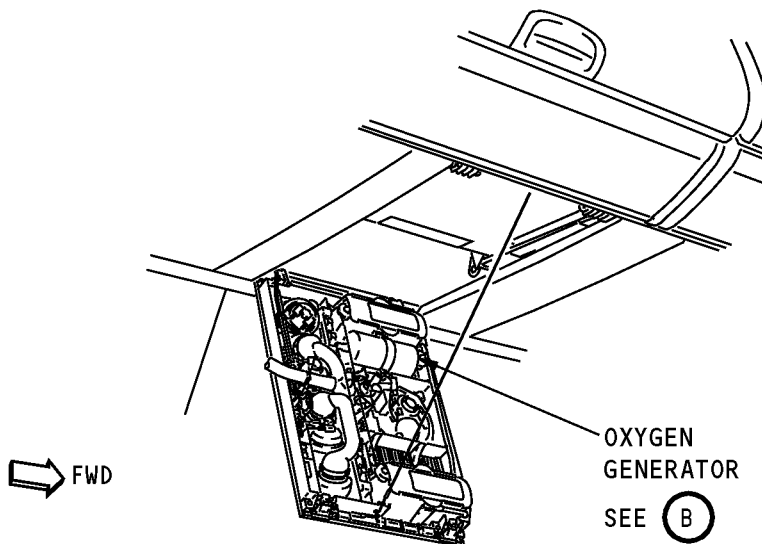
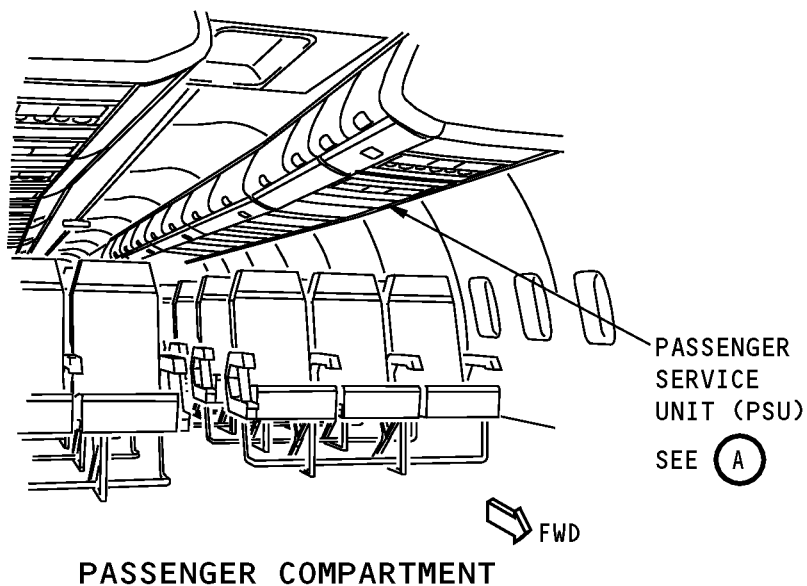
35-22-11

Config 1
Page 402
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL



PASSENGER SERVICE UNIT (EXAMPLE)

(A)

Oxygen Generator - PSU Installation
Figure 401 (Sheet 1 of 2)/35-22-11-990-804-001

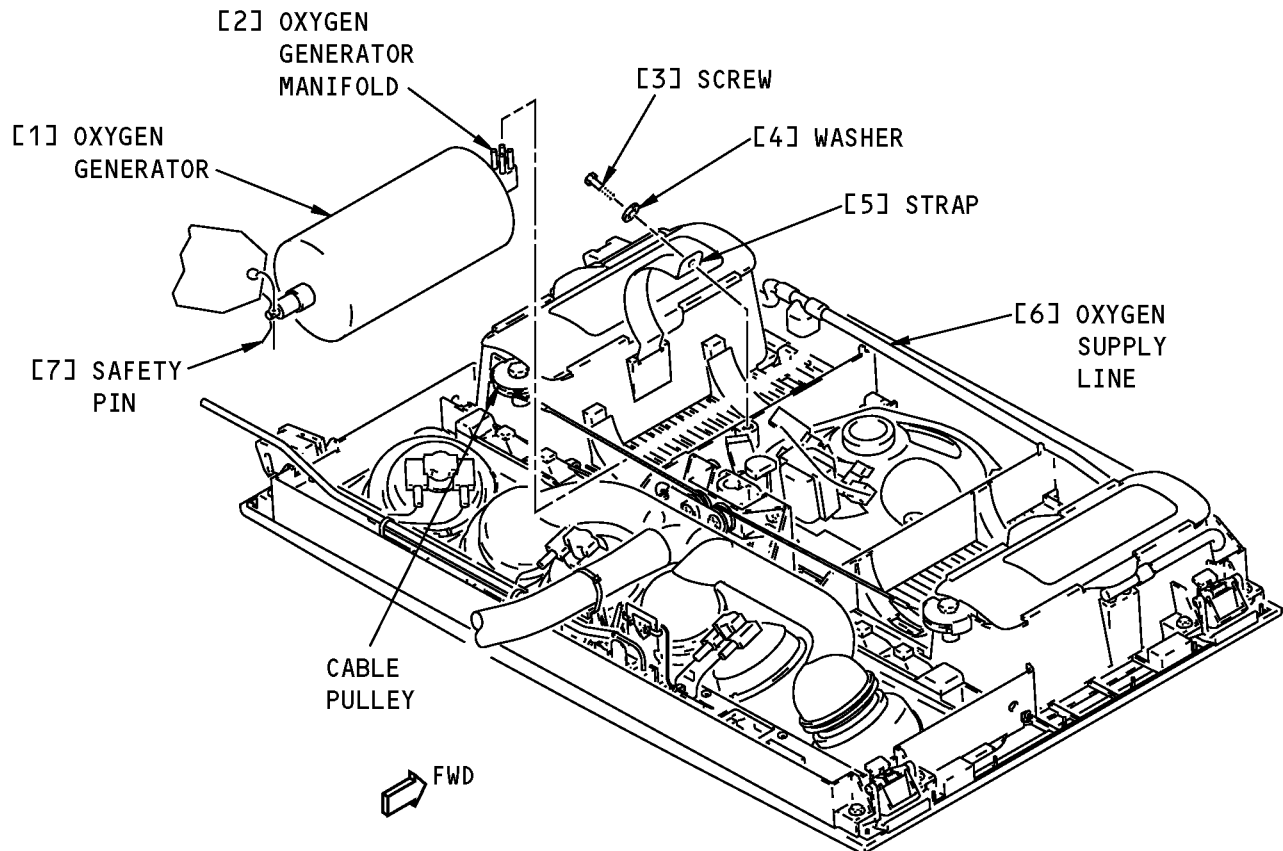
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HAP ALL

D633A101-HAP

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35-22-11

Config 1
Page 403
Oct 10/2003



OXYGEN GENERATOR

(B)

Oxygen Generator - PSU Installation
Figure 401 (Sheet 2 of 2)/35-22-11-990-804-001

EFFECTIVITY
HAP ALL

D633A101-HAP

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35-22-11

Config 1
Page 404
Oct 10/2003



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 35-22-11-400-804-001

3. PSU Oxygen Generator Installation

(Figure 401)

A. General

(1) This procedure is a scheduled maintenance task.

B. References

Reference	Title
35-22-11-400-811-001	Oxygen Generator Activation (P/B 201)

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Oxygen generator	35-22-11-10-475	HAP 001-013, 015-026, 028-030
		35-22-11-10C-180	HAP 001-013, 015-026, 028-030
		35-22-11-28B-155	HAP 001-013, 015-026, 028-037, 039, 040
		35-22-11-28C-155	HAP 001-013, 015-026, 028-037, 039, 040
		35-22-11-51-170	HAP 038, 041-047, 049-054
		35-22-11-51A-170	HAP 038, 041-047, 049-054
		35-22-11-51N-170	HAP 101-999
		35-22-11-51P-170	HAP 101-999

D. Location Zones

Zone	Area
200	Upper Half of Fuselage

E. Prepare to Install the PSU Oxygen Generator

NOTE: Capacities of the oxygen generators are not all the same. Make sure you use the correct part number before you install the oxygen generator.

SUBTASK 35-22-11-210-007-001

(1) Do these checks before you install the oxygen generator [1]:

(a) Make sure the heat-sensitive band on the oxygen generator [1] is not black.

NOTE: If the heat-sensitive band is black, the oxygen generator [1] has fired.

WARNING: MAKE SURE A RELEASE PIN OR A SAFETY PIN (WITH A WARNING FLAG) IS INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF A PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F (230°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (APPROXIMATELY ONE HOUR).

(b) Make sure a safety pin [7] is installed in the firing pin.

NOTE: If the firing pin is in the fired position (the firing pin is against the percussion cap), the oxygen generator [1] has fired or the firing mechanism is bad.

EFFECTIVITY
HAP ALL

D633A101-HAP

35-22-11

Config 1
Page 405
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

(c) Make sure the oxygen generator [1] does not have these types of damage:

- 1) dents
- 2) pushed-in ends
- 3) a bent or loose firing mechanism
- 4) unusual noises when the oxygen generator [1] is shaken gently.

SUBTASK 35-22-11-210-008-001

(2) If the oxygen generator [1] is not serviceable, discard it.

SUBTASK 35-22-11-210-009-001

(3) If the oxygen generator [1] is serviceable, do the subsequent procedure.

F. PSU Oxygen Generator Installation

NOTE: When you do the installation procedure, do not loosen or remove the cable pulleys on the PSU.

SUBTASK 35-22-11-010-012-001

(1) Go to the applicable PSU in the passenger compartment.

SUBTASK 35-22-11-820-001-001

WARNING: THE OXYGEN GENERATOR MUST BE PROPERLY ALIGNED WITH THE RELEASE CABLE TO ALLOW CORRECT OPERATION OF THE RELEASE MECHANISM.

FAILURE TO DO SO COULD PREVENT THE OXYGEN GENERATOR FROM FUNCTIONING PROPERLY WHEN REQUIRED.

CAUTION: YOU MUST BE VERY CAREFUL WHEN YOU INSTALL AND REMOVE AN OXYGEN GENERATOR. DO NOT DAMAGE THE OXYGEN GENERATOR OR LET IT FALL. IF THE OXYGEN GENERATOR IS DAMAGED, IT IS POSSIBLE THAT THE OXYGEN GENERATOR WILL NOT FIRE.

CAUTION: DO NOT TRY TO REMOVE THE FIRING MECHANISM FROM THE OXYGEN GENERATOR. IT CANNOT BE ASSEMBLED AGAIN.

(2) Position the oxygen generator [1] in the oxygen box with the firing pin release pin hole aligned with the center of the release cable guide, and the safety pin and warning flag [7] pointing in the direction of the release cable (View B).

NOTE: Some PSUs contain a placard, which specifies the location to align the release pin. If the placard is installed, align the release pin between the arrows on the placard. If the placard is not installed, center the release pin above the top of the No Smoking/Fasten Seat Belt Lamp Housing Assembly.

SUBTASK 35-22-11-410-008-001

(3) Close the strap [5] and install the screw [3] and washer [4] to the mounting bracket.

SUBTASK 35-22-11-420-004-001

(4) Connect the oxygen supply line [6] to the manifold [2] on the oxygen generator [1].

NOTE: Make sure the oxygen supply line is tightly connected to the manifold.

SUBTASK 35-22-11-440-004-001

(5) Do this task: Oxygen Generator Activation, TASK 35-22-11-400-811-001.

EFFECTIVITY
HAP ALL

D633A101-HAP

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35-22-11

Config 1
Page 406
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-22-11-410-041-001

- (6) To close the PSU, push the PSU panel upward to engage the cam latches.

NOTE: The latches will generally make a "click" sound when they fully engage.

————— **END OF TASK** —————

TASK 35-22-11-000-805-001

4. ASU Oxygen Generator Removal

(Figure 402)

A. General

- (1) This procedure is a scheduled maintenance task.

B. References

Reference	Title
35-22-11-000-811-001	Oxygen Generator Deactivation (P/B 201)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Prepare the ASU Oxygen Generator(s) for Removal

SUBTASK 35-22-11-010-013-001

- (1) Go to the applicable forward or aft ASU, found above the exit doors.

SUBTASK 35-22-11-010-014-001

- (2) Do these steps to open an ASU oxygen box [22].

- (a) Put a tool into the latch access hole.
- (b) Push up on the tool to operate the door latch.
- (c) Open the oxygen box door.
- (d) Let the oxygen masks to fall.
- (e) Do not pull on the oxygen masks.

NOTE: If you pull on the oxygen masks, the oxygen generator will fire.

- (f) Put the masks and streamer out of the way during the maintenance.

SUBTASK 35-22-11-020-016-001

WARNING: MAKE SURE A RELEASE PIN OR A SAFETY PIN (WITH A WARNING FLAG) IS INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF A PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F (230°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (WAIT APPROXIMATELY ONE HOUR).

- (3) If the oxygen generator has not fired, do this task: Oxygen Generator Deactivation, TASK 35-22-11-000-811-001.

NOTE: If the oxygen generator has fired, it is not necessary to deactivate the oxygen generator.

EFFECTIVITY
HAP ALL

D633A101-HAP

BOEING PROPRIETARY - Copyright © Unpublished Work - See title page for details

35-22-11

Config 1
Page 407
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

E. ASU Oxygen Generator Removal

SUBTASK 35-22-11-020-010-001

- (1) Loosen the two screws [24] that attach the oxygen generator [27] to the oxygen box [22].

SUBTASK 35-22-11-020-011-001

- (2) Disconnect the oxygen supply line from the manifold [21].

SUBTASK 35-22-11-020-012-001

CAUTION: YOU MUST BE VERY CAREFUL WHEN YOU INSTALL AND REMOVE AN OXYGEN GENERATOR. DO NOT DAMAGE THE OXYGEN GENERATOR OR LET IT FALL. IF THE OXYGEN GENERATOR IS DAMAGED, IT IS POSSIBLE THAT THE OXYGEN GENERATOR WILL NOT FIRE.

CAUTION: DO NOT TRY TO REMOVE THE FIRING MECHANISM FROM THE OXYGEN GENERATOR. IT CANNOT BE ASSEMBLED AGAIN.

- (3) Do these steps to remove the oxygen generator [27] (View A):
 - (a) Make sure the safety pin [23] is installed in the firing pin.
 - (b) Remove the release pin from the firing pin.
 - (c) Remove the washers [25] and screws [24] (two locations) that hold the oxygen generator [27] to the oxygen box [22].
 - 1) Keep the fasteners for the installation.

WARNING: MAKE SURE YOU OBEY ALL APPLICABLE REGULATORY REQUIREMENTS FOR THE TRANSPORT OF OXYGEN GENERATORS. IF THE SERVICE LIFE OF THE GENERATORS HAS EXPIRED, YOU MUST FIRE THE GENERATORS AND MAKE SURE THE OXIDIZER CORE IS EMPTY. THIS MUST BE DONE BEFORE YOU PREPARE THE GENERATORS FOR TRANSPORT. IF THE GENERATORS ARE NOT FIRED AND EMPTY, THEY CAN ACCIDENTALLY FIRE DURING TRANSPORT AND CAUSE HEAT AND IGNITION. THIS CAN CAUSE DEATH OR INJURY TO PERSONS AND DAMAGE TO THE AIRCRAFT.

- (d) Remove the oxygen generator [27] from the oxygen box [22].
- (e) Remove the heat shield [26] from the oxygen generator [27].
 - 1) Keep the heat shield [26] for the installation.

————— **END OF TASK** —————

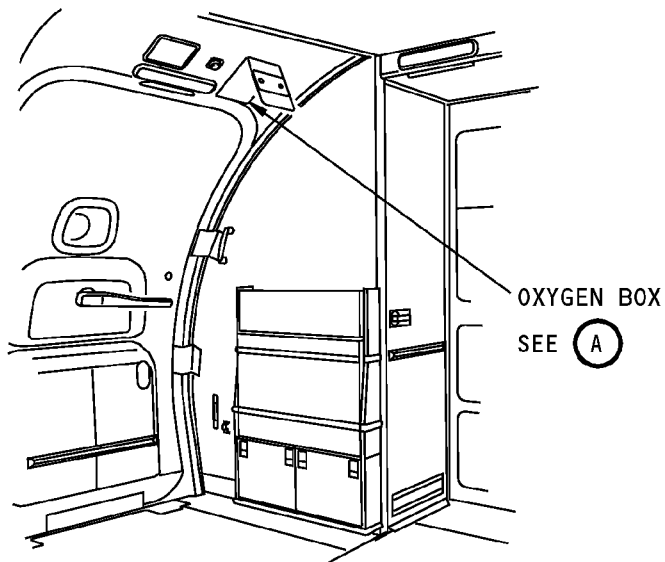
EFFECTIVITY
HAP ALL

D633A101-HAP

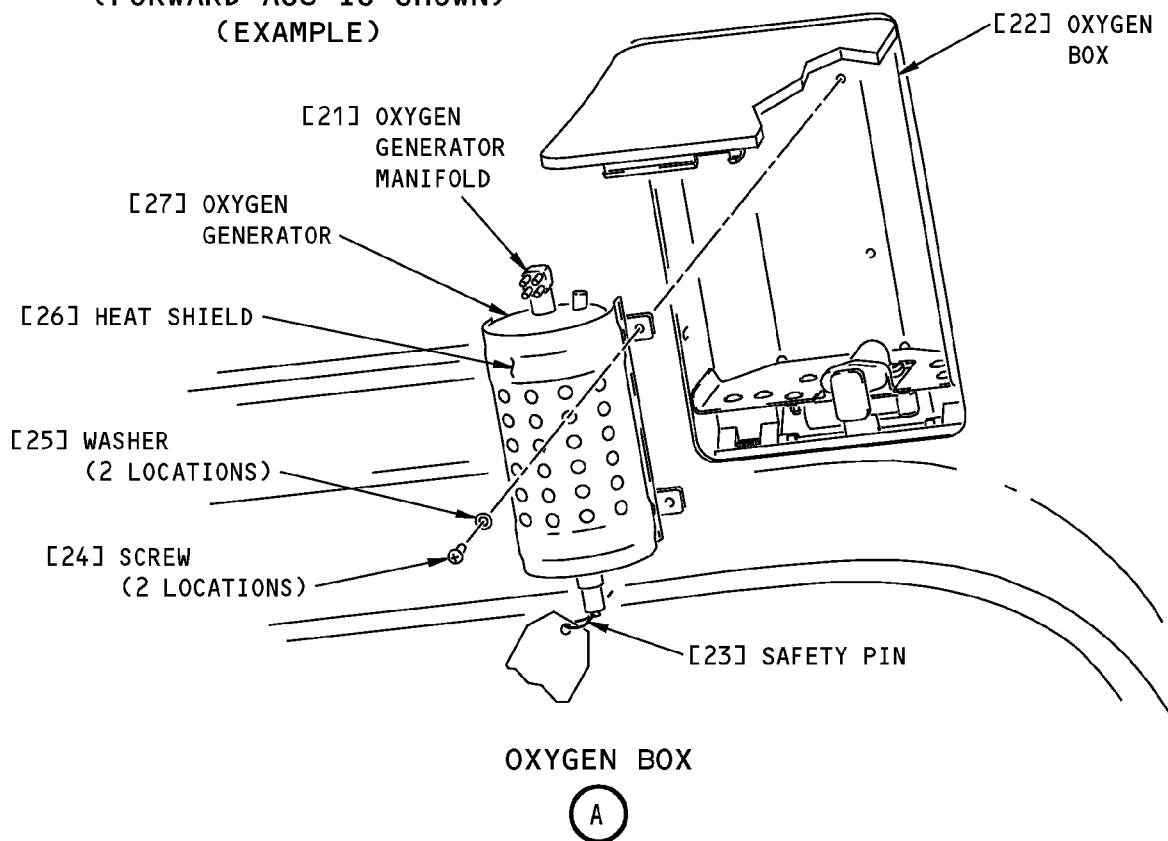
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35-22-11

Config 1
Page 408
Feb 15/2009



**ATTENDANT SERVICE UNIT (ASU)
(FORWARD ASU IS SHOWN)
(EXAMPLE)**



**Oxygen Generator - ASU Installation
Figure 402/35-22-11-990-805-001**

EFFECTIVITY
HAP ALL

D633A101-HAP

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35-22-11

Config 1
Page 409
Oct 10/2003



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 35-22-11-400-805-001

5. ASU Oxygen Generator Installation

(Figure 402)

A. General

- (1) This procedure is a scheduled maintenance task.

B. References

Reference	Title
35-22-11-400-811-001	Oxygen Generator Activation (P/B 201)

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
27	Oxygen generator	35-22-11-13A-170	HAP 001-011
		35-22-11-13B-170	HAP 012, 013, 015-026
		35-22-11-77A-130	HAP 001-013, 015-026
		35-22-11-91-135	HAP 028-030

D. Location Zones

Zone	Area
200	Upper Half of Fuselage

E. Prepare to Install the ASU Oxygen Generator(s)

NOTE: The capacities of the oxygen generators are not all the same. Make sure you install the correct part number.

SUBTASK 35-22-11-210-010-001

- (1) Do these checks before you install the oxygen generator [27]:

- (a) Make sure the heat-sensitive band on the oxygen generator [27] is not black.

NOTE: If the heat-sensitive band is black, the oxygen generator [27] has fired.

WARNING: MAKE SURE A RELEASE PIN OR A SAFETY PIN (WITH A WARNING FLAG) IS INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF A PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F (230°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (APPROXIMATELY ONE HOUR).

- (b) Make sure a safety pin [23] is installed in the firing pin.

NOTE: If the firing pin is in the fired position (the firing pin is against the percussion cap), the oxygen generator [27] has fired or the firing mechanism is bad.

- (c) Make sure the oxygen generator [27] does not have these types of damage:

- 1) dents
- 2) pushed-in ends
- 3) a bent or loose firing mechanism
- 4) unusual noises when the oxygen generator [27] is shaken gently.

SUBTASK 35-22-11-210-011-001

- (2) If the oxygen generator [27] is not serviceable, discard it.

EFFECTIVITY
HAP ALL

D633A101-HAP

35-22-11

Config 1
Page 410
Jun 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-22-11-210-012-001

- (3) If the oxygen generator [27] is serviceable, do the subsequent procedure.

F. ASU Oxygen Generator Installation

SUBTASK 35-22-11-010-015-001

- (1) Go to the applicable ASU in the passenger compartment.

SUBTASK 35-22-11-410-009-001

- (2) Install the heat shield [26].

SUBTASK 35-22-11-820-002-001

CAUTION: YOU MUST BE VERY CAREFUL WHEN YOU INSTALL AND REMOVE AN OXYGEN GENERATOR. DO NOT DAMAGE THE OXYGEN GENERATOR OR LET IT FALL. IF THE OXYGEN GENERATOR IS DAMAGED, IT IS POSSIBLE THAT THE OXYGEN GENERATOR WILL NOT FIRE.

CAUTION: DO NOT TRY TO REMOVE THE FIRING MECHANISM FROM THE OXYGEN GENERATOR. IT CANNOT BE ASSEMBLED AGAIN.

- (3) Put the oxygen generator [27] in its position with the safety pin and warning flag [23] in the direction of the release cable.

NOTE: Some PSUs contain a placard, which specifies the location to align the release pin. If the placard is installed, align the release pin between the arrows on the placard. If the placard is not installed, center the release pin above the top of the No Smoking/Fasten Seat Belt Lamp Housing Assembly.

SUBTASK 35-22-11-410-010-001

- (4) Install the oxygen box [22] with the washers [25] and screws [24] (two locations).

SUBTASK 35-22-11-420-005-001

- (5) Connect the oxygen supply line to the manifold [21] on the oxygen generator.

NOTE: Make sure the oxygen supply line is tightly connected to the manifold.

SUBTASK 35-22-11-440-005-001

- (6) Do this task: Oxygen Generator Activation, TASK 35-22-11-400-811-001.

————— **END OF TASK** —————

TASK 35-22-11-000-806-001

6. LSU Oxygen Generator Removal

(Figure 403)

A. General

- (1) This procedure is a scheduled maintenance task.

B. References

Reference	Title
35-22-11-000-811-001	Oxygen Generator Deactivation (P/B 201)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

EFFECTIVITY
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D633A101-HAP

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35-22-11

Config 1
Page 411
Jun 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

D. Prepare the LSU Oxygen Generator(s) for Removal

SUBTASK 35-22-11-010-016-001

- (1) Go to the applicable lavatory unit.

SUBTASK 35-22-11-010-017-001

- (2) Do these steps to open an LSU oxygen box [41] (View A).

- (a) Put a tool into the latch access hole.
- (b) Push up on the tool to operate the door latch.
- (c) Open the oxygen box door.
- (d) Let the oxygen masks fall.
- (e) Do not pull on the oxygen masks.

NOTE: If you pull on the oxygen masks, the oxygen generator will fire.

- (f) Put the masks and streamer out of the way during the maintenance.

SUBTASK 35-22-11-020-017-001

WARNING: MAKE SURE A RELEASE PIN OR A SAFETY PIN (WITH A WARNING FLAG) IS INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF A PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F (230°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (WAIT APPROXIMATELY ONE HOUR).

- (3) If the oxygen generator has not fired, do this task: Oxygen Generator Deactivation, TASK 35-22-11-000-811-001.

NOTE: If the oxygen generator has fired, it is not necessary to deactivate the oxygen generator.

E. LSU Oxygen Generator Removal

SUBTASK 35-22-11-030-001

- (1) Disconnect the oxygen mask supply lines from the manifold [46].

SUBTASK 35-22-11-020-015-001

- (2) Do these steps to remove the oxygen generator [42] (View A):

- (a) Make sure the safety pin [43] is installed in the firing pin.
- (b) Remove the release pin from the firing pin.
- (c) Remove the washers [44] and screws [45] that attach the oxygen generator [42] and heat shield assembly to the oxygen box [41].
 - 1) Keep the fasteners for the installation.

WARNING: MAKE SURE YOU OBEY ALL APPLICABLE REGULATORY REQUIREMENTS FOR THE TRANSPORT OF OXYGEN GENERATORS. IF THE SERVICE LIFE OF THE GENERATORS HAS EXPIRED, YOU MUST FIRE THE GENERATORS AND MAKE SURE THE OXIDIZER CORE IS EMPTY. THIS MUST BE DONE BEFORE YOU PREPARE THE GENERATORS FOR TRANSPORT. IF THE GENERATORS ARE NOT FIRED AND EMPTY, THEY CAN ACCIDENTALLY FIRE DURING TRANSPORT AND CAUSE HEAT AND IGNITION. THIS CAN CAUSE DEATH OR INJURY TO PERSONS AND DAMAGE TO THE AIRCRAFT.

- (d) Remove the oxygen generator [42] and heat shield assembly from the oxygen box [41].
- (e) Remove the heat shield [47] from the oxygen generator [42].

EFFECTIVITY
HAP ALL

D633A101-HAP

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35-22-11

Config 1
Page 412
Jun 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- 1) Keep the heat shield assembly [47] for the installation.

END OF TASK

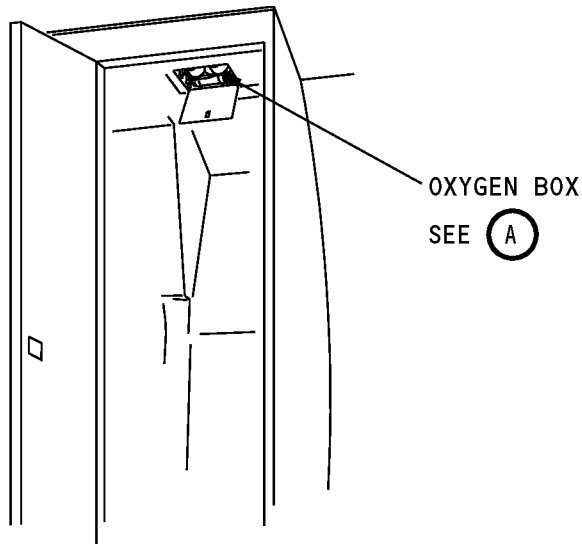
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HAP ALL

D633A101-HAP

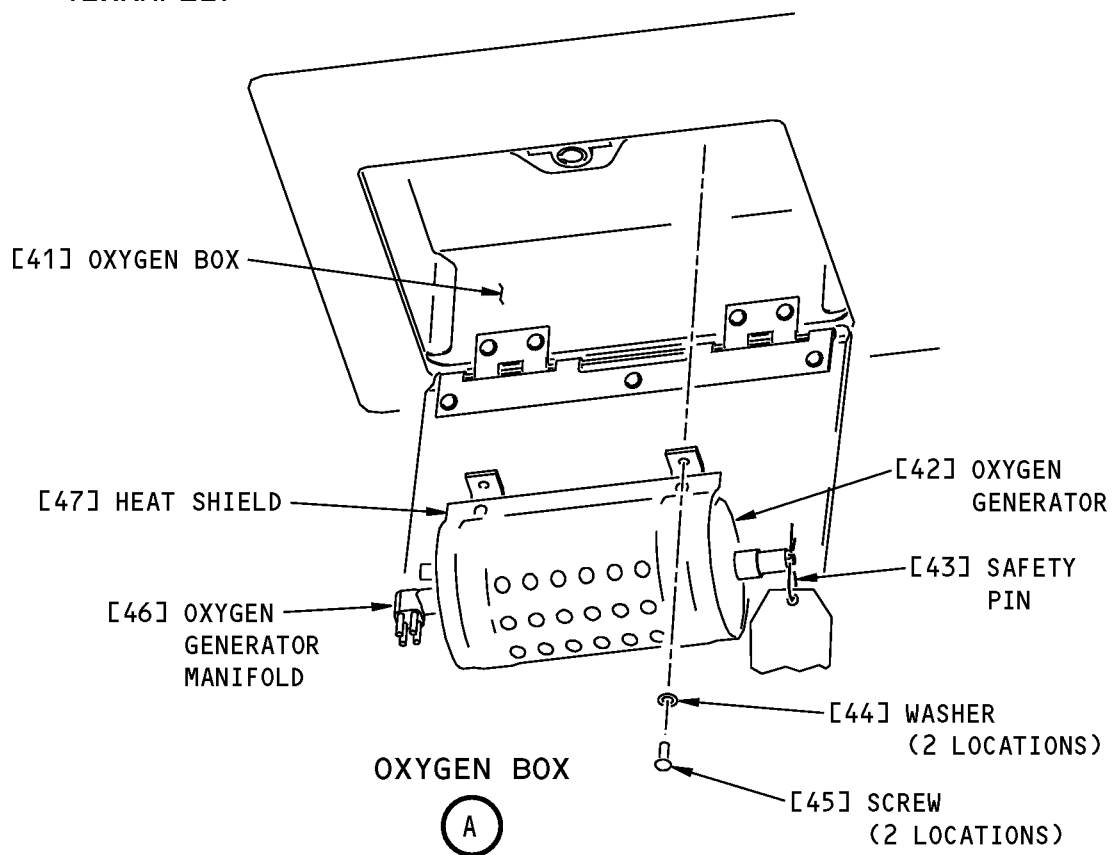
35-22-11

Config 1
Page 413
Jun 15/2009

AIRCRAFT MAINTENANCE MANUAL



LAVATORY SERVICE UNIT (LSU)
(AFT LSU IS SHOWN)
(EXAMPLE)



Oxygen Generator - LSU Installation
Figure 403/35-22-11-990-806-001

EFFECTIVITY
HAP ALL

D633A101-HAP

35-22-11

Config 1
Page 414
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 35-22-11-400-806-001

7. LSU Oxygen Generator Installation

(Figure 403)

A. General

- (1) This procedure is a scheduled maintenance task.

B. References

Reference	Title
35-22-11-400-811-001	Oxygen Generator Activation (P/B 201)

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
42	Oxygen generator	35-22-11-02-195	HAP 001-013, 015-026, 028-030
		35-22-11-05-005	HAP 001-013, 015-026, 028-030
		35-22-11-05-105	HAP 001-013, 015-026, 028-030
		35-22-11-05D-025	HAP 031-054, 101-999
		35-22-11-05E-025	HAP 031-054, 101-106
		35-22-11-05L-025	HAP 052, 053
		35-22-11-05N-025	HAP 107-999
		35-22-11-05W-105	HAP 001-013, 015-026, 028-030
		35-22-11-05X-105	HAP 001-013, 015-026, 028-030

D. Location Zones

Zone	Area
200	Upper Half of Fuselage

E. Prepare to Install the LSU Oxygen Generator(s)

NOTE: The capacities of the oxygen generators are not all the same. Make sure you install the correct part number.

SUBTASK 35-22-11-210-013-001

CAUTION: YOU MUST BE VERY CAREFUL WHEN YOU INSTALL AND REMOVE AN OXYGEN GENERATOR. DO NOT DAMAGE THE OXYGEN GENERATOR OR LET IT FALL. IF THE OXYGEN GENERATOR IS DAMAGED, IT IS POSSIBLE THAT THE OXYGEN GENERATOR WILL NOT FIRE.

CAUTION: DO NOT TRY TO REMOVE THE FIRING MECHANISM FROM THE OXYGEN GENERATOR. IT CANNOT BE ASSEMBLED AGAIN.

- (1) Do these checks before you install the oxygen generator [42]:

- (a) Make sure the heat-sensitive band on the oxygen generator [42] is not black.

NOTE: If the heat-sensitive band is black, the oxygen generator [42] has fired.

EFFECTIVITY
HAP ALL

D633A101-HAP

35-22-11

Config 1
Page 415
Jun 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

WARNING: MAKE SURE A RELEASE PIN OR A SAFETY PIN (WITH A WARNING FLAG) IS INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF A PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F (230°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (APPROXIMATELY ONE HOUR).

- (b) Make sure a safety pin [43] is installed in the firing pin.

NOTE: If the firing pin is in the fired position (the firing pin is against the percussion cap), the oxygen generator [42] has fired or the firing mechanism is bad.

- (c) Make sure the oxygen generator [42] does not have these types of damage:

- 1) dents
- 2) pushed-in ends
- 3) a bent or loose firing mechanism
- 4) unusual noises when the oxygen generator [42] is shaken gently.

SUBTASK 35-22-11-210-014-001

- (2) If the oxygen generator [42] is not serviceable, discard it.

SUBTASK 35-22-11-210-015-001

- (3) If the oxygen generator [42] is serviceable, do the subsequent procedure.

F. LSU Oxygen Generator Installation

SUBTASK 35-22-11-010-018-001

- (1) Go to the applicable LSU in the passenger compartment.

SUBTASK 35-22-11-820-003-001

CAUTION: YOU MUST BE VERY CAREFUL WHEN YOU INSTALL AND REMOVE AN OXYGEN GENERATOR. DO NOT DAMAGE THE OXYGEN GENERATOR OR LET IT FALL. IF THE OXYGEN GENERATOR IS DAMAGED, IT IS POSSIBLE THAT THE OXYGEN GENERATOR WILL NOT FIRE.

CAUTION: DO NOT TRY TO REMOVE THE FIRING MECHANISM FROM THE OXYGEN GENERATOR. IT CANNOT BE ASSEMBLED AGAIN.

- (2) Put the oxygen generator [42] in its position in the heat shield assembly [47] cushion clamps.

SUBTASK 35-22-11-410-012-001

- (3) Put the heat shield assembly and oxygen generator in their position in the oxygen box [41].

SUBTASK 35-22-11-410-011-001

- (4) Install the washers [44] and screws [45] that attach the heat shield assembly and oxygen generator to the oxygen box.

SUBTASK 35-22-11-420-006-001

- (5) Connect the oxygen mask supply lines to oxygen generator manifold [46] at the oxygen generator [42].

NOTE: Make sure the oxygen supply lines are tightly connected to the manifold.

SUBTASK 35-22-11-440-006-001

- (6) Do this task: Oxygen Generator Activation, TASK 35-22-11-400-811-001.

————— **END OF TASK** —————

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HAP ALL

D633A101-HAP

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35-22-11

Config 1
Page 416
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

OXYGEN MASK DOOR LATCH ACTUATOR - REMOVAL/INSTALLATION

1. General

A. This procedure has these tasks:

- (1) PSU Door Latch Actuator Removal
- (2) PSU Door Latch Actuator Installation
- (3) ASU Door Latch Actuator Removal
- (4) ASU Door Latch Actuator Installation
- (5) LSU Door Latch Actuator Removal
- (6) LSU Door Latch Actuator Installation.

B. The door latch actuator is a component part of the oxygen box. Oxygen boxes are in the passenger cabin in each of these LRUs:

- (1) Passenger Service Unit (PSU)
- (2) Attendant Service Unit (ASU)
- (3) Lavatory Service Unit (LSU).
- (4) The removal of the door latch actuator is similar for each oxygen box, even though the construction of the oxygen boxes can be different.

TASK 35-22-21-000-801-001

2. PSU Door Latch Actuator Removal

(Figure 401)

A. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-11-000-811-001	Oxygen Generator Deactivation (P/B 201)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Procedure

SUBTASK 35-22-21-910-001-001

- (1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-22-21-860-001-001

- (2) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

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D633A101-HAP

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35-22-21

Config 1
Page 401
Feb 15/2008



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-22-21-010-001-001

- (3) Go to the applicable PSU in the passenger cabin.

SUBTASK 35-22-21-040-007-001

- (4) Do these steps to make sure the oxygen mask door does not accidentally open.
- (a) Hold the oxygen mask door in the closed position.
 - (b) Pull down on the handle for the test stop assembly [1].
 - (c) Turn the handle 90 degrees.
 - (d) Release the handle.

SUBTASK 35-22-21-010-002-001

- (5) To get access to the PSU, do these steps to lower the PSU:
- (a) Put a rod into the latch access hole (2 locations).
 - (b) Push up on the rod to unlatch the cam latches.
 - (c) Lower the PSU.

SUBTASK 35-22-21-020-001-001

- (6) Disconnect the electrical connector for the door latch actuator [2].

SUBTASK 35-22-21-040-002-001

WARNING: MAKE SURE A RELEASE PIN OR A SAFETY PIN (WITH A WARNING FLAG) IS INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF A PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F (230°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (APPROXIMATELY ONE HOUR).

- (7) Do this task: Oxygen Generator Deactivation, TASK 35-22-11-000-811-001.

SUBTASK 35-22-21-020-002-001

- (8) Do these steps to remove the door latch actuator [2].
- (a) Remove the screw [3] and the washer [4] (2 locations) that attach the door latch actuator [2] to the test stop assembly.
 - 1) Keep the screw [3] and the washer [4] for the installation.
 - (b) Remove the door latch actuator [2].

————— **END OF TASK** —————

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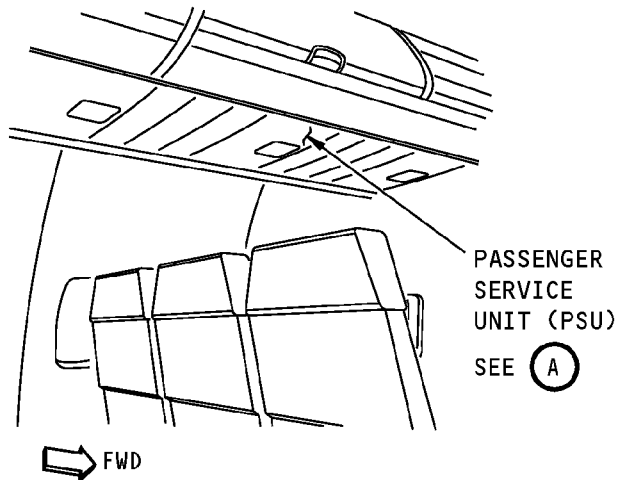
35-22-21

Config 1
Page 402
Feb 15/2008

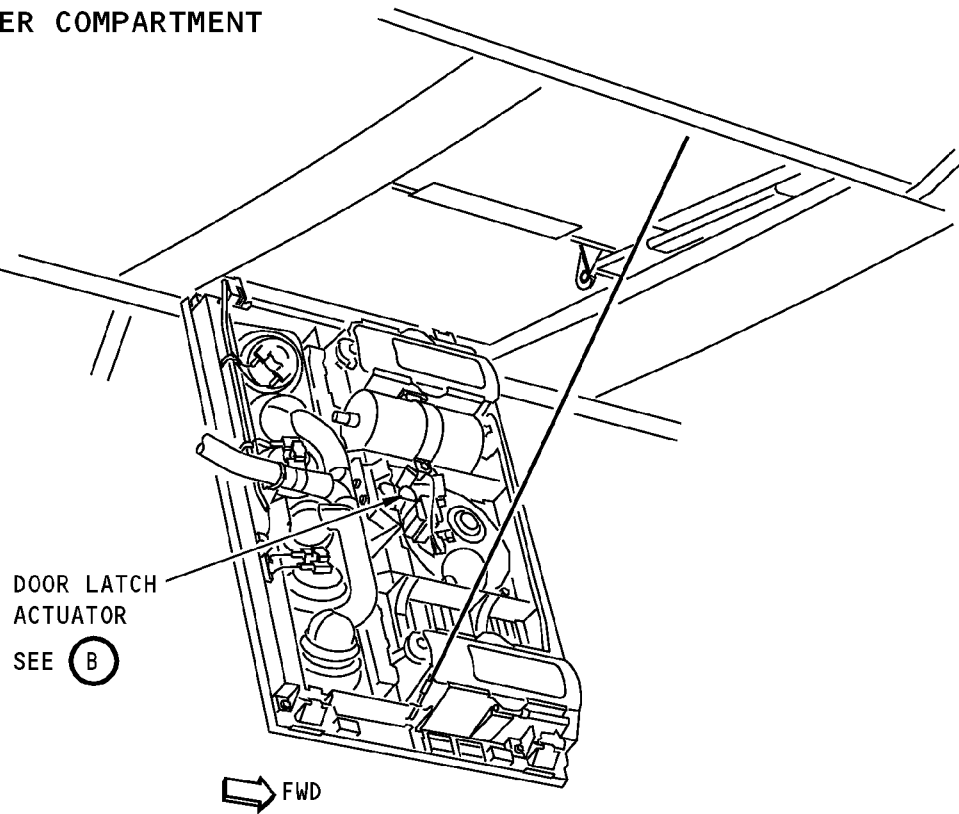


737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL



PASSENGER COMPARTMENT



PASSENGER SERVICE UNIT (PSU)
(EXAMPLE)

(A)

PSU Door Latch Actuator Installation
Figure 401 (Sheet 1 of 2)/35-22-21-990-801-001

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D633A101-HAP

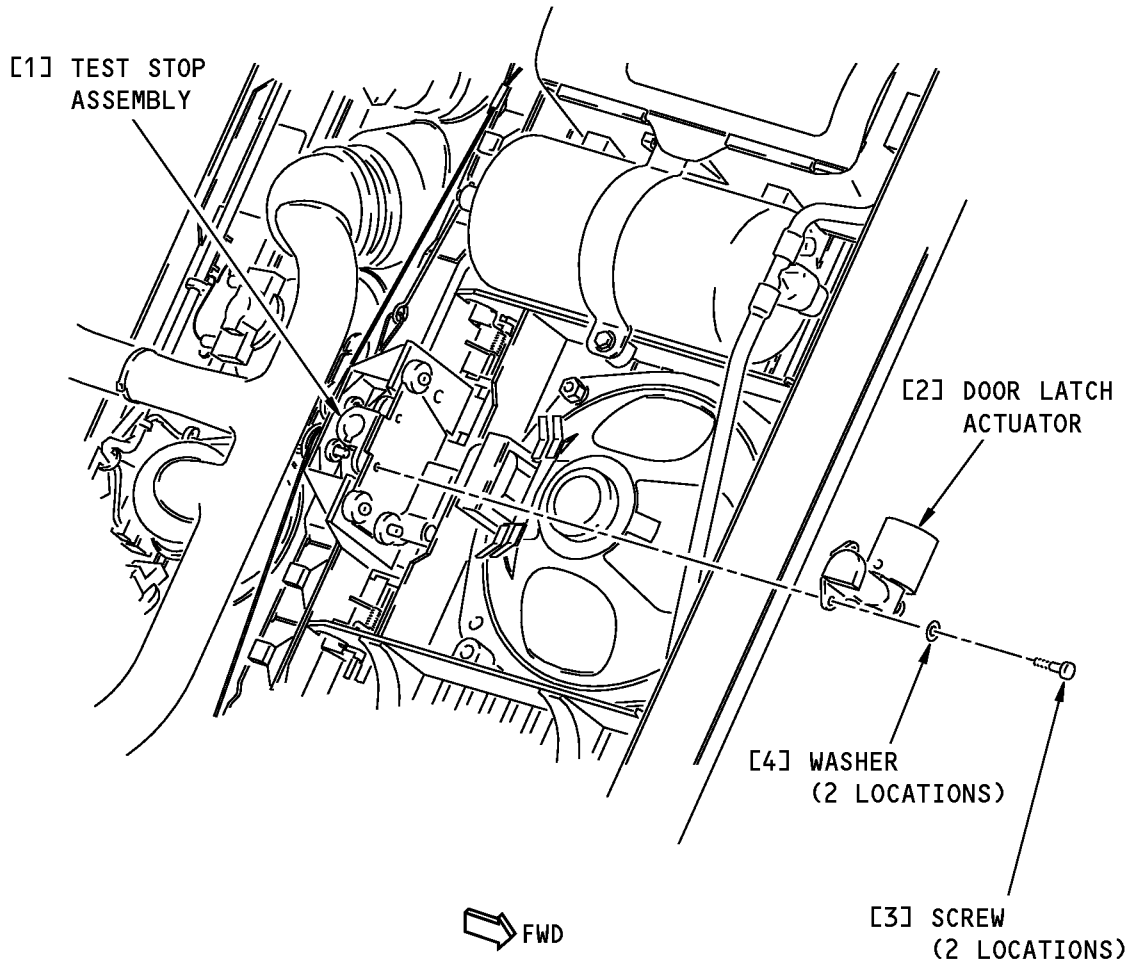
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35-22-21

Config 1
Page 403
Oct 10/2003



737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL



DOOR LATCH ACTUATOR

(B)

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PSU Door Latch Actuator Installation
Figure 401 (Sheet 2 of 2)/35-22-21-990-801-001

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HAP ALL

D633A101-HAP

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35-22-21
Config 1
Page 404
Feb 15/2008



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 35-22-21-400-801-001

3. PSU Door Latch Actuator Installation

(Figure 401)

A. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-00-700-801	Passenger Oxygen System - Functional Test (P/B 501)
35-22-11-400-811-001	Oxygen Generator Activation (P/B 201)

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
2	Door latch actuator	35-22-21-01B-031	HAP 001-013, 015-026, 028-030
		35-22-21-28B-015	HAP 001-013, 015-026, 028-037, 039, 040
		35-22-21-63R-015	HAP 038, 041-054
		35-22-21-63W-015	HAP 101-999

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Procedure

SUBTASK 35-22-21-910-002-001

- (1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-22-21-860-002-001

WARNING: MAKE SURE A RELEASE PIN OR A SAFETY PIN (WITH A WARNING FLAG) IS INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF A PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F (230°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (APPROXIMATELY ONE HOUR).

- (2) Make sure the safety pin is installed in the oxygen generator.

SUBTASK 35-22-21-420-001-001

- (3) Do these steps to connect the door latch actuator [2] to the PSU.
 - (a) Put the door latch actuator [2] in position on the test stop assembly.
 - (b) Install the washer [4] and the screw [3] (two locations).

SUBTASK 35-22-21-420-002-001

- (4) Attach the electrical connector for the door latch actuator [2].

EFFECTIVITY
HAP ALL

D633A101-HAP

35-22-21

Config 1
Page 405
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-22-21-860-003-001

WARNING: MAKE SURE TO REMOVE THE SAFETY PIN FROM THE FIRING PIN ON THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL NOT FIRE IN AN EMERGENCY IF THE SAFETY PIN IS INSTALLED.

(5) Do this task: Oxygen Generator Activation, TASK 35-22-11-400-811-001.

SUBTASK 35-22-21-440-001-001

(6) Do these steps to put the door test stop in the stowed position.

- (a) Hold the oxygen mask door in the closed position.
- (b) Pull down on the handle for the door test stop.
- (c) Turn the handle 90 degrees.
- (d) Release the handle into the slot.
- (e) Make sure the handle is flush with the bottom of the PSU.

SUBTASK 35-22-21-410-001-001

(7) To close the PSU, push the PSU panel upward to engage the cam latches.

NOTE: The latches will generally make a "click" sound when they fully engage.

SUBTASK 35-22-21-860-004-001

(8) Remove the safety tags and close these circuit breakers:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

SUBTASK 35-22-21-410-002-001

(9) Do this task: Passenger Oxygen System - Functional Test, TASK 35-22-00-700-801.

————— **END OF TASK** —————

TASK 35-22-21-000-802-001

4. ASU Door Latch Actuator Removal

(Figure 402)

A. References

<u>Reference</u>	<u>Title</u>
25-23-13-000-801	Attendant/Lavatory Service Unit Removal (P/B 401)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-11-000-811-001	Oxygen Generator Deactivation (P/B 201)

B. Procedure

SUBTASK 35-22-21-910-003-001

(1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

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HAP ALL

D633A101-HAP

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35-22-21

Config 1
Page 406
Oct 15/2008



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-22-21-860-005-001

- (2) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

SUBTASK 35-22-21-010-003-001

- (3) Go to the applicable attendant service unit (ASU) located above the front and rear passenger exit doors.

SUBTASK 35-22-21-010-004-001

- (4) Do this task: Attendant/Lavatory Service Unit Removal, TASK 25-23-13-000-801.

SUBTASK 35-22-21-040-003-001

WARNING: MAKE SURE A RELEASE PIN OR A SAFETY PIN (WITH A WARNING FLAG) IS INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF A PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F (230°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (APPROXIMATELY ONE HOUR).

- (5) Do this task: Oxygen Generator Deactivation, TASK 35-22-11-000-811-001.

SUBTASK 35-22-21-020-003-001

- (6) Do these steps to remove the door latch actuator [22] from the removed oxygen box.
- (a) Remove the screw [23] and the washer [24] (2 locations) that attach the door latch actuator [22] to the test stop assembly.
 - 1) Keep the screws [23] and the washers [24] for the installation.
 - (b) Disconnect the door latch actuator electrical harness.
 - (c) Remove the door latch actuator [22].

————— **END OF TASK** —————

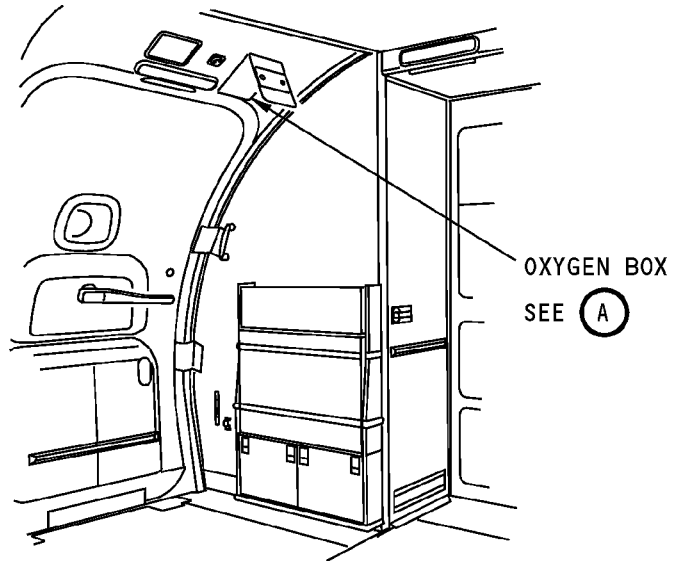
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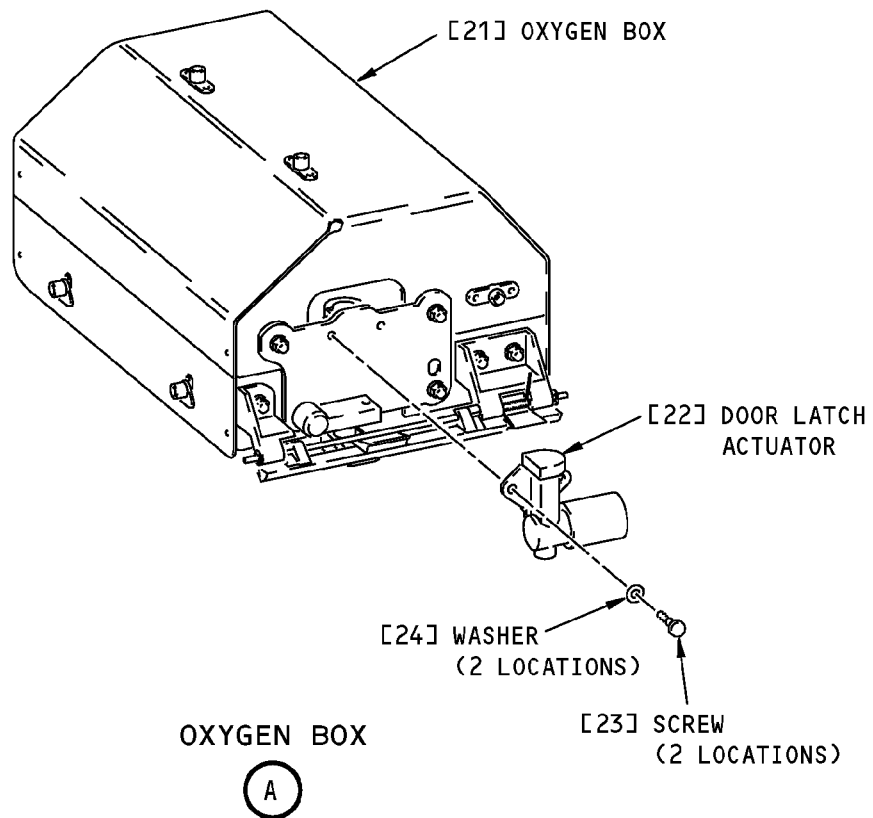
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35-22-21

Config 1
Page 407
Oct 15/2008



**ATTENDANT SERVICE UNIT (ASU)
(EXAMPLE)**



**ASU Door Latch Actuator Installation
Figure 402/35-22-21-990-802-001**

EFFECTIVITY
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35-22-21

Config 1
Page 408
Oct 10/2003



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 35-22-21-400-802-001

5. ASU Door Latch Actuator Installation

(Figure 402)

A. References

Reference	Title
25-23-13-400-801	Attendant/Lavatory Service Unit Installation (P/B 401)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-00-700-801	Passenger Oxygen System - Functional Test (P/B 501)
35-22-11-400-811-001	Oxygen Generator Activation (P/B 201)

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
22	Door latch actuator	35-22-21-13A-095	HAP 001-011
		35-22-21-13B-095	HAP 012, 013, 015-026
		35-22-21-77A-095	HAP 001-013, 015-026
		35-22-21-89D-090	HAP 031-054, 101-999
		35-22-21-91-090	HAP 028-030
		35-22-21-93-090	HAP 028-036
		35-22-21-93-240	HAP 031-036
		35-22-21-93A-090	HAP 037-054, 101-999

C. Procedure

SUBTASK 35-22-21-910-004-001

- (1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-22-21-860-006-001

WARNING: MAKE SURE A RELEASE PIN OR A SAFETY PIN (WITH A WARNING FLAG) IS INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF A PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F (230°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (APPROXIMATELY ONE HOUR).

- (2) Make sure the safety pin is installed in the oxygen generator.

SUBTASK 35-22-21-420-003-001

- (3) Do these steps to install the door latch actuator [22]:
 - (a) Put the door latch actuator [22] in position on the test stop assembly.
 - (b) Install the washers [24] and the screws [23] (2 locations).
 - (c) Connect the door latch actuator electrical harness.

SUBTASK 35-22-21-410-003-001

- (4) Do this task: Attendant/Lavatory Service Unit Installation, TASK 25-23-13-400-801.

EFFECTIVITY
HAP ALL

D633A101-HAP

35-22-21

Config 1
Page 409
Jun 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-22-21-860-007-001

WARNING: MAKE SURE TO REMOVE THE SAFETY PIN FROM THE FIRING PIN ON THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL NOT FIRE IN AN EMERGENCY IF THE SAFETY PIN IS INSTALLED.

(5) Do this task: Oxygen Generator Activation, TASK 35-22-11-400-811-001.

SUBTASK 35-22-21-860-008-001

(6) Remove the safety tags and close these circuit breakers:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

SUBTASK 35-22-21-410-004-001

(7) Do this task: Passenger Oxygen System - Functional Test, TASK 35-22-00-700-801.

————— **END OF TASK** —————

TASK 35-22-21-000-803-001

6. LSU Door Latch Actuator Removal

(Figure 403)

A. References

<u>Reference</u>	<u>Title</u>
25-23-13-000-801	Attendant/Lavatory Service Unit Removal (P/B 401)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-11-000-811-001	Oxygen Generator Deactivation (P/B 201)

B. Procedure

SUBTASK 35-22-21-910-005-001

(1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-22-21-860-009-001

(2) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

SUBTASK 35-22-21-010-005-001

(3) Go to the applicable lavatory service unit (LSU) located in the ceiling of each lavatory.

SUBTASK 35-22-21-010-006-001

(4) Do this task: Attendant/Lavatory Service Unit Removal, TASK 25-23-13-000-801.

EFFECTIVITY
HAP ALL

D633A101-HAP

35-22-21

Config 1
Page 410
Oct 15/2008



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-22-21-040-004-001

WARNING: MAKE SURE A RELEASE PIN OR A SAFETY PIN (WITH A WARNING FLAG) IS INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF A PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F (230°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (APPROXIMATELY ONE HOUR).

(5) Do this task: Oxygen Generator Deactivation, TASK 35-22-11-000-811-001.

SUBTASK 35-22-21-020-004-001

(6) Do these steps to remove the door latch actuator [44] from the removed oxygen box [41].

(a) Remove the screw [42] and the washer [43] (2 locations) that attach the door latch actuator [44] to the test stop assembly.

1) Keep the screws [42] and the washers [43] for the installation.

(b) Disconnect the door latch actuator electrical harness.

(c) Remove the door latch actuator [44].

————— **END OF TASK** —————

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D633A101-HAP

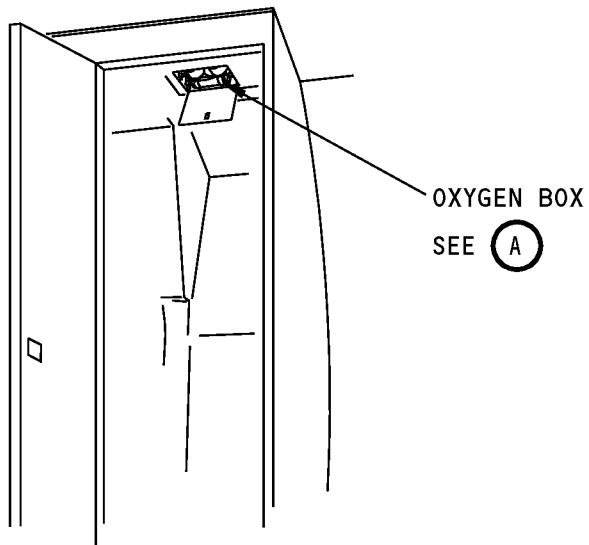
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35-22-21

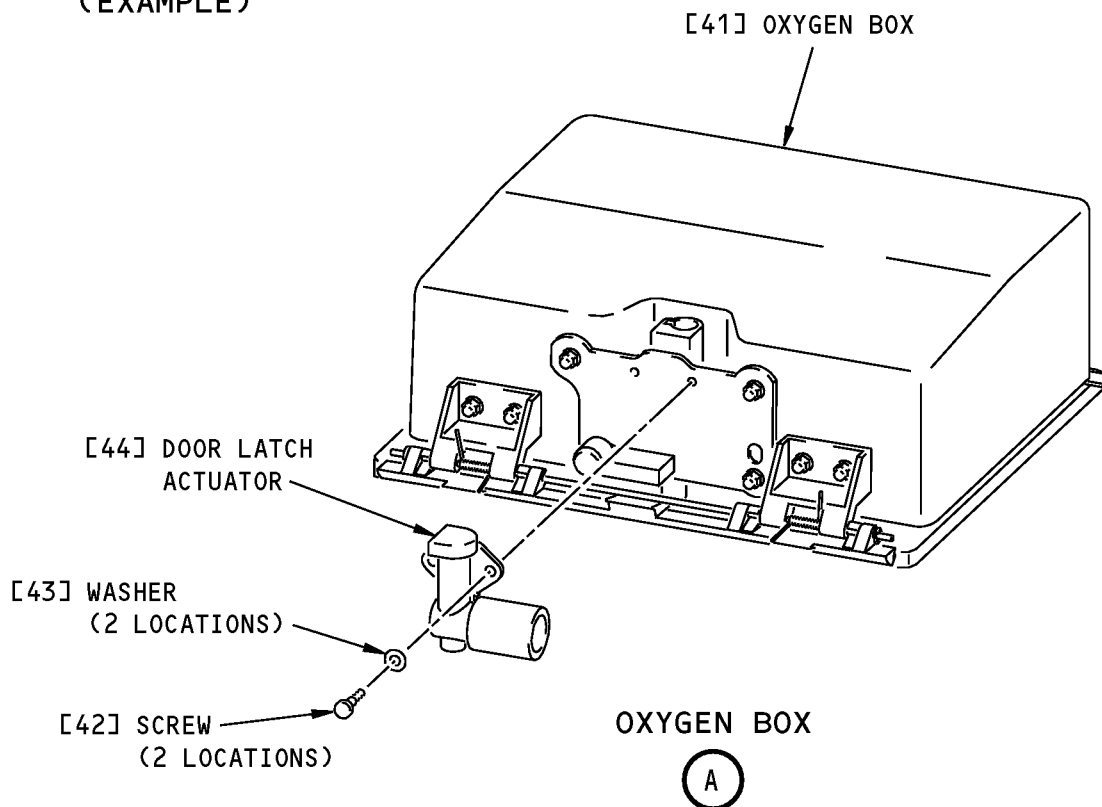
Config 1
Page 411
Oct 15/2008



737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL



LAVATORY SERVICE UNIT (LSU)
(AFT LSU IS SHOWN)
(EXAMPLE)



LSU Door Latch Actuator Installation
Figure 403/35-22-21-990-803-001

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D633A101-HAP

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35-22-21

Config 1
Page 412
Oct 10/2003



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 35-22-21-400-803-001

7. LSU Door Latch Actuator Installation

(Figure 403)

A. References

Reference	Title
25-23-13-400-801	Attendant/Lavatory Service Unit Installation (P/B 401)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-00-700-801	Passenger Oxygen System - Functional Test (P/B 501)
35-22-11-400-811-001	Oxygen Generator Activation (P/B 201)

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
44	Door latch actuator	35-22-21-02-020	HAP 001-013, 015-026, 028-030
		35-22-21-02-160	HAP 001-013, 015-026, 028-030
		35-22-21-02-295	HAP 001-013, 015-026, 028-030
		35-22-21-02A-060	HAP 031-051, 054, 101-999
		35-22-21-02D-080	HAP 031-054, 101-999
		35-22-21-02E-060	HAP 031-054, 101-106
		35-22-21-02L-015	HAP 052, 053
		35-22-21-02N-015	HAP 107-999
		35-22-21-02W-035	HAP 001-013, 015-026, 028-030
		35-22-21-02W-170	HAP 001-013, 015-026, 028-030
		35-22-21-02X-035	HAP 001-013, 015-026, 028-030
		35-22-21-02X-170	HAP 001-013, 015-026, 028-030

C. Procedure

SUBTASK 35-22-21-910-006-001

- (1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-22-21-860-010-001

WARNING: MAKE SURE A RELEASE PIN OR A SAFETY PIN (WITH A WARNING FLAG) IS INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF A PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F (230°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (APPROXIMATELY ONE HOUR).

- (2) Make sure the safety pin is installed in the oxygen generator.

SUBTASK 35-22-21-420-004-001

- (3) Do these steps to install the door latch actuator [44]:
 - (a) Put the door latch actuator [44] in position on the test stop assembly.

EFFECTIVITY
HAP ALL

D633A101-HAP

35-22-21

Config 1
Page 413
Jun 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

(b) Install the washers [43] and the screws [42] (2 locations).

(c) Connect the door latch actuator electrical harness.

SUBTASK 35-22-21-410-005-001

(4) Do this task: Attendant/Lavatory Service Unit Installation, TASK 25-23-13-400-801.

SUBTASK 35-22-21-860-011-001

WARNING: MAKE SURE TO REMOVE THE SAFETY PIN FROM THE FIRING PIN ON THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL NOT FIRE IN AN EMERGENCY IF THE SAFETY PIN IS INSTALLED.

(5) Do this task: Oxygen Generator Activation, TASK 35-22-11-400-811-001.

SUBTASK 35-22-21-860-012-001

(6) Remove the safety tags and close these circuit breakers:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

SUBTASK 35-22-21-410-006-001

(7) Do this task: Passenger Oxygen System - Functional Test, TASK 35-22-00-700-801.

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

D633A101-HAP

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35-22-21

Config 1
Page 414
Jun 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

PASSENGER OXYGEN MASK - MAINTENANCE PRACTICES

1. General

- A. This procedure contains scheduled maintenance task data.
- B. This procedure contains these tasks:
 - (1) PSU Oxygen Mask Packing
 - (2) ASU and LSU Oxygen Packing.
- C. The procedure for packing of the passenger oxygen mask can be used for all of the masks. This includes the oxygen masks in the passenger service units (PSUs), attendant service units (ASUs) and lavatory service units (LSUs).
- D. The oxygen mask packing is usually done on a bench or a clean flat surface. Oxygen mask packing can also be done on the airplane. This procedure contains information on packing oxygen masks on the airplane.
- E. Persons that do the mask packing must do it in a clean environment.
- F. Before you do maintenance on an oxygen system component that contains an oxygen generator you must install a safety pin in the generator firing mechanism. The safety pin will let the generator be handled and stored. If the safety pin is not installed, the oxygen generator can fire.

TASK 35-22-31-000-803-001

2. PSU Oxygen Mask Packing

(Figure 201, Figure 204)

A. References

Reference	Title
25-23-61-000-801	Passenger Service Unit (PSU) Removal (P/B 201)
25-23-61-400-801	Passenger Service Unit (PSU) Installation (P/B 201)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-11-000-811-001	Oxygen Generator Deactivation (P/B 201)
35-22-11-400-811-001	Oxygen Generator Activation (P/B 201)
35-22-31-000-801-001	PSU Oxygen Mask Removal (P/B 401)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Prepare to Pack the PSU Oxygen Masks

SUBTASK 35-22-31-910-006-001

- (1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-22-31-010-010-001

- (2) To lower the applicable PSU(s), do this task: Passenger Service Unit (PSU) Removal, TASK 25-23-61-000-801.

EFFECTIVITY
HAP ALL

D633A101-HAP

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35-22-31

Config 1
Page 201
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-22-31-010-011-001

WARNING: INSTALL A RELEASE PIN OR A SAFETY PIN WITH THE WARNING FLAG INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF YOU REMOVE THE RELEASE PIN AND THE SAFETY PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F (230°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (WAIT APPROXIMATELY ONE HOUR).

(3) Do this task: Oxygen Generator Deactivation, TASK 35-22-11-000-811-001.

SUBTASK 35-22-31-010-012-001

(4) Do these steps to position the oxygen masks out of the oxygen mask box:

NOTE: Do not disconnect the oxygen masks.

(a) Remove the oxygen mask box cover from the oxygen mask box.

1) Keep the oxygen mask box cover for the installation.

(b) Pull each oxygen mask with the oxygen supply line and lanyard up through the top of the oxygen mask box.

(c) Isolate each of the oxygen masks and let the oxygen masks hang from the top of the PSU.

SUBTASK 35-22-31-040-002-001

(5) Do these steps to close the oxygen mask box door:

(a) Make sure the oxygen masks, lanyards, and oxygen supply line are pulled up through the oxygen mask box.

(b) Look at the door latch actuator.

1) If the door latch actuator plunger is in the set position, no action is necessary.

2) If the door latch actuator plunger is out, push the reset lever to set the actuator again.

(c) Close and latch the oxygen mask box door.

SUBTASK 35-22-31-210-006-001

(6) Do a check of the applicable oxygen mask(s):

(a) Make sure the oxygen masks are not torn or damaged.

(b) Make sure the oxygen masks are clean and free from contamination such as:

1) dirt

2) grease

3) oil

4) unwanted material.

SUBTASK 35-22-31-210-007-001

(7) Do a check of the applicable oxygen supply hoses:

(a) Make sure the oxygen supply hoses not torn or damaged.

(b) Make sure the oxygen supply hoses are soft and flexible.

(c) Make sure the color of the oxygen supply hoses is clear and not deteriorated.

(d) Make sure each mask is held securely to the oxygen supply hose.

SUBTASK 35-22-31-900-003-001

(8) If an oxygen mask or oxygen supply hose is not serviceable, do this task: PSU Oxygen Mask Removal, TASK 35-22-31-000-801-001.

EFFECTIVITY
HAP ALL

D633A101-HAP

35-22-31

Config 1
Page 202
Oct 10/2004



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

D. PSU Oxygen Mask Packing

SUBTASK 35-22-31-010-013-001

- (1) Go to the applicable PSU in the passenger cabin.

SUBTASK 35-22-31-420-005-001

- (2) Do these steps to fold an oxygen mask (Figure 204):

NOTE: Fold one mask at a time and then put the folded mask in the PSU oxygen mask box.
Continue with the remaining oxygen masks.

- (a) STEP 1 - Prepare to fold the oxygen mask:

- 1) Isolate all of the lanyards and oxygen supply hoses.
- 2) Unfold and flatten the reservoir bag.
- 3) Put the headstrap on the reservoir bag.

- (b) STEP 2 - Fold the oxygen mask:

- 1) Fold the bag in thirds, lengthwise, over the headstrap.

- (c) STEP 3 AND STEP 4: Position the reservoir bag in the face piece:

- 1) Wrap the folded reservoir bag up the side of the facepiece (step 3).
- 2) Put the bag-to-hose connection in the center and bottom of the facepiece (Step 4).
- 3) Push the bag-to-hose connection to the left side of the facepiece (step 4).

- (d) STEP 5: Coil the oxygen supply hose:

- 1) Start to coil the supply hose counterclockwise in the facepiece cup.
- 2) Make sure the supply hose is coiled on top of the reservoir bag.
- 3) Press the supply hose firmly down and against the inside wall of the facepiece.
- 4) Keep the supply hose coil below the top surface of the facepiece.
- 5) Continue to coil the supply hose to the flow indicator.
- 6) Leave the lanyard out of the face piece.

SUBTASK 35-22-31-410-001-001

- (3) Do these steps to install the oxygen masks in the PSU mask box:

- (a) Make sure the lanyards are attached to the release cable.
- (b) Make sure the release cable is attached to the mask box with a cotter pin at the release cable fitting.
- (c) Turn the folded oxygen mask until the closed end of the facepiece is toward the center of the PSU (View C).
- (d) Put the oxygen mask on the top of the oxygen box door.
- (e) Position the oxygen masks on one side of the PSU in such a way that the open end of the mask faces sideways (Figure 201).
- (f) Do the previous step again for the other two oxygen masks on the other side of the PSU.

SUBTASK 35-22-31-440-001-001

- (4) Do this task: Oxygen Generator Activation, TASK 35-22-11-400-811-001.

SUBTASK 35-22-31-210-008-001

- (5) Do these steps to check the installation of the oxygen masks:

- (a) Make sure all of the mask lanyard rings are attached to the release cable.

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HAP ALL

D633A101-HAP

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35-22-31

Config 1
Page 203
Oct 10/2004



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (b) Do a check of the release cable routing to make sure the release pin will pull away from the oxygen generator firing mechanism when the oxygen masks are deployed.
- (c) Make sure the oxygen supply hoses are not bent too much or crimped.
- (d) Make sure the mask lanyards are not wrapped around a hose, elastic band, end clip, or other object.
- (e) Make sure that no part of the oxygen mask or the reservoir bag goes over the oxygen supply manifold or the release cable.
- (f) Do a visual check of the door alignment to make sure the oxygen equipment is not caught between the oxygen mask door and the PSU structure.

SUBTASK 35-22-31-440-002-001

- (6) Install the oxygen mask box cover to the PSU.

SUBTASK 35-22-31-410-002-001

- (7) To close the PSU, do this task: Passenger Service Unit (PSU) Installation, TASK 25-23-61-400-801.

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

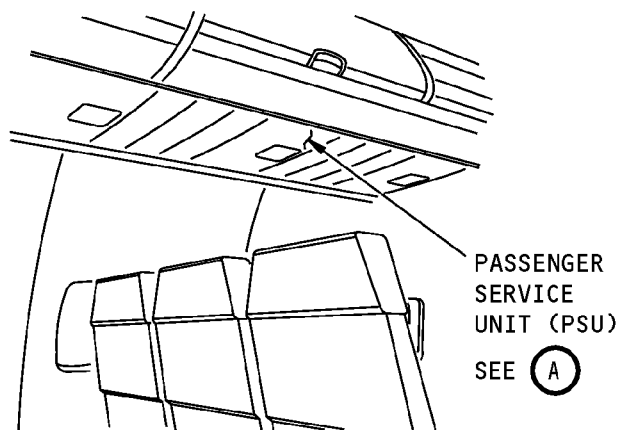
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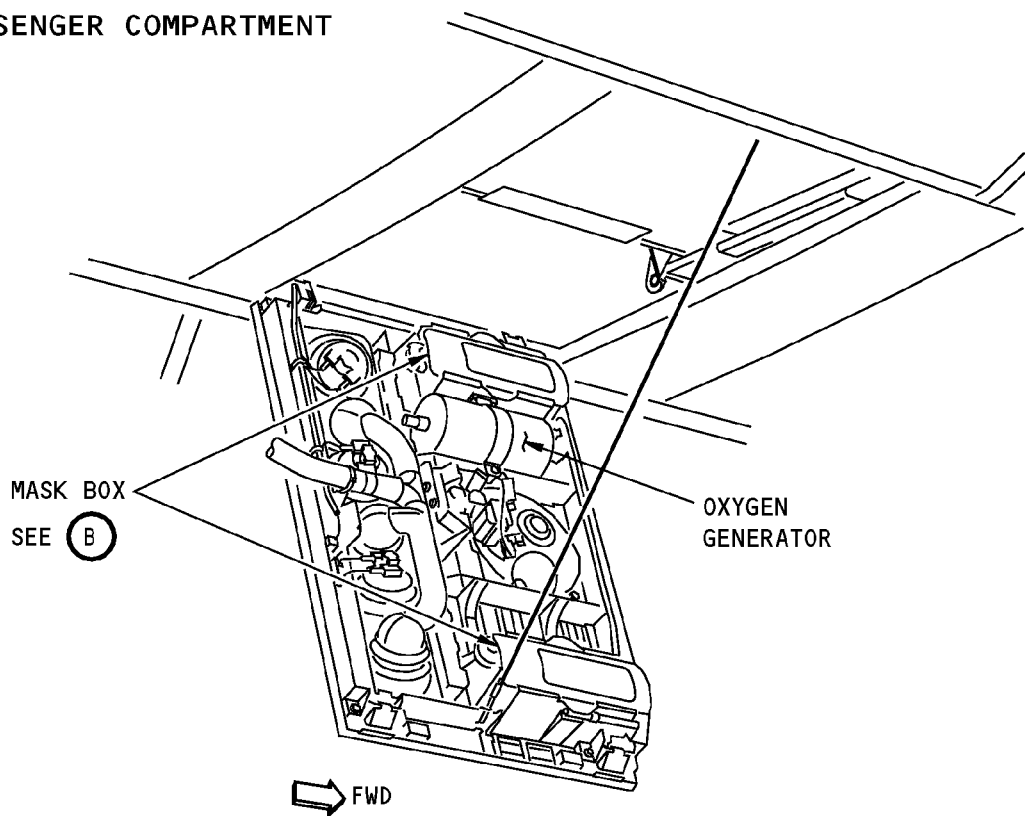
35-22-31
Config 1
Page 204
Oct 10/2004



737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL



PASSENGER COMPARTMENT



PASSENGER SERVICE UNIT (PSU)

(A)

PSU Oxygen Mask Packing Procedure
Figure 201 (Sheet 1 of 3)/35-22-31-990-803-001

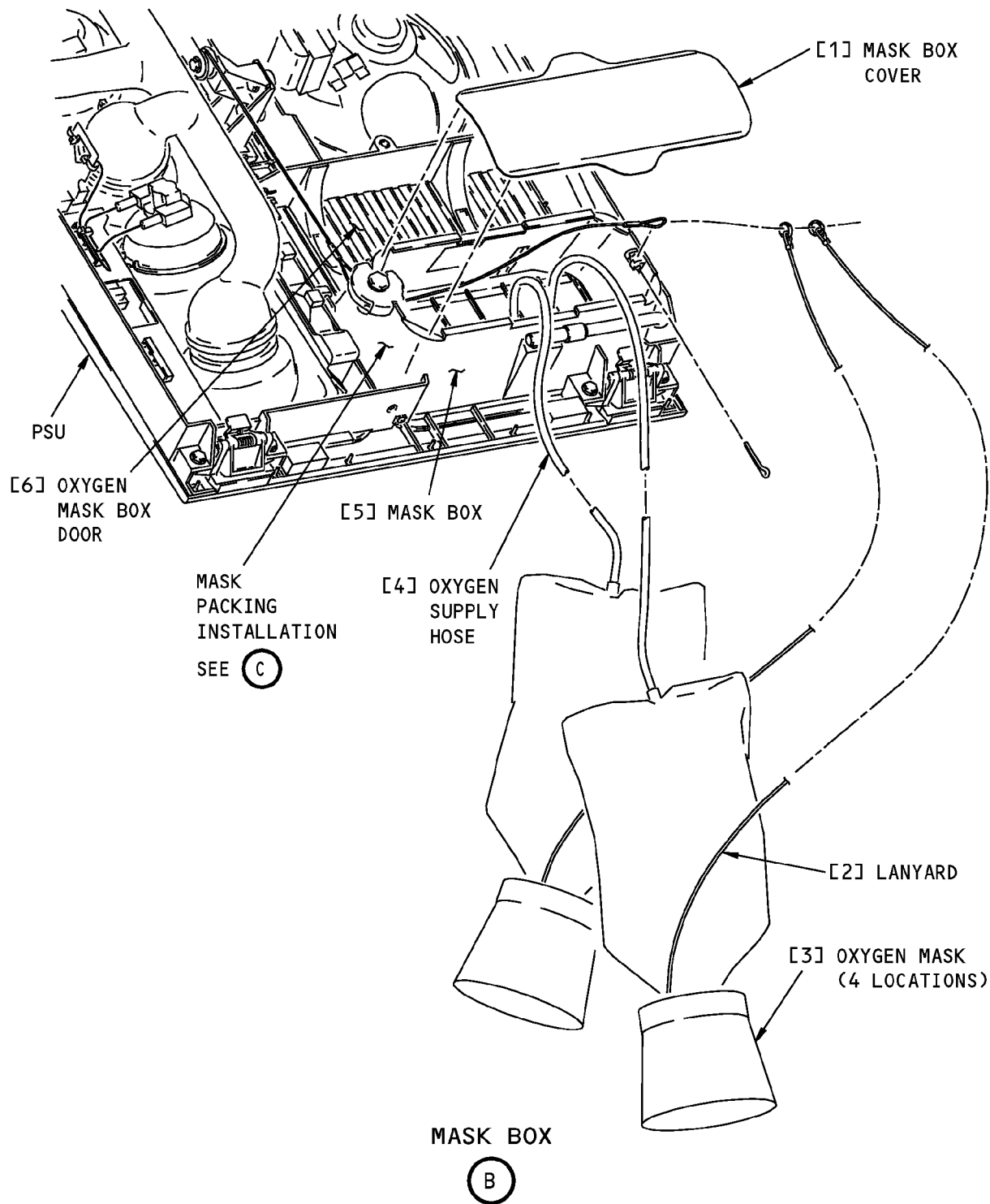
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D633A101-HAP

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35-22-31

Config 1
Page 205
Oct 10/2003



PSU Oxygen Mask Packing Procedure
Figure 201 (Sheet 2 of 3)/35-22-31-990-803-001

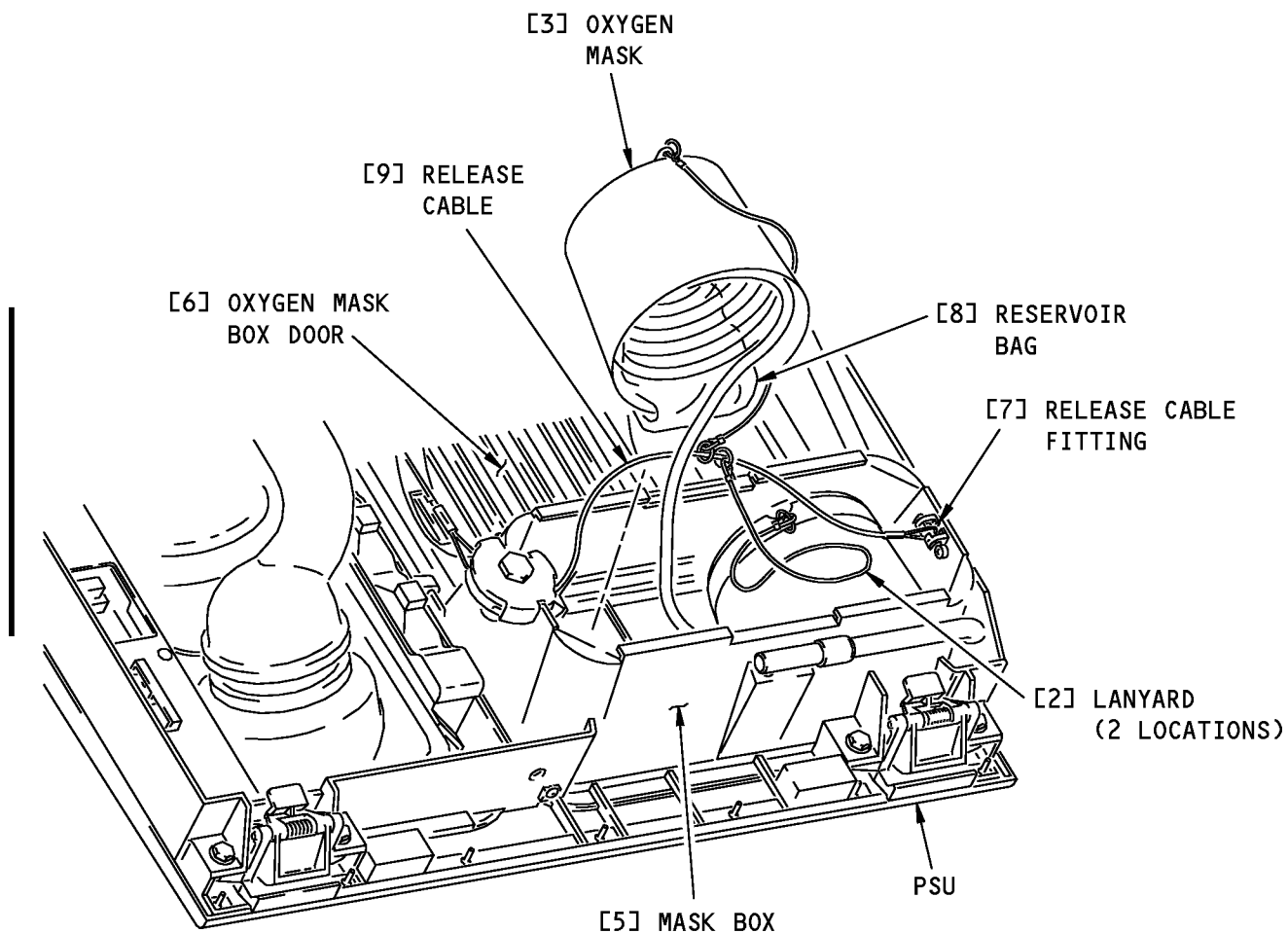
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D633A101-HAP

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35-22-31

Config 1
Page 206
Oct 10/2003



MASK PACKING INSTALLATION

C

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PSU Oxygen Mask Packing Procedure
Figure 201 (Sheet 3 of 3)/35-22-31-990-803-001

EFFECTIVITY
HAP ALL

D633A101-HAP

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35-22-31

Config 1
Page 207
Jun 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 35-22-31-000-804-001

3. ASU and LSU Oxygen Mask Packing

(Figure 202, Figure 203, Figure 204)

A. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-11-000-811-001	Oxygen Generator Deactivation (P/B 201)
35-22-11-400-811-001	Oxygen Generator Activation (P/B 201)
35-22-31-000-802-001	ASU and LSU Oxygen Mask Removal (P/B 401)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Prepare to Pack the ASU and LSU Oxygen Masks

SUBTASK 35-22-31-910-007-001

- (1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-22-31-010-014-001

- (2) Do these steps to open an ASU oxygen box (if it is necessary) (Figure 202).
 - (a) Go to the applicable forward or aft ASU, above the exit doors.
 - (b) Put a tool into the latch access hole.
 - (c) Push up on the tool to operate the door latch.
 - (d) Open the oxygen box door.
 - (e) Let the oxygen masks fall.
 - (f) Do not pull on the oxygen masks.

NOTE: If you pull on the oxygen masks, the oxygen generator will fire.

SUBTASK 35-22-31-010-016-001

- (3) Do these steps to open a LSU oxygen box (if it is necessary) (Figure 203).
 - (a) Go to the applicable LSU, found in the ceiling of each lavatory.
 - (b) Put a tool into the latch access hole.
 - (c) Push up on the tool to operate the door latch.
 - (d) Open the oxygen box door.
 - (e) Let the oxygen masks fall.
 - (f) Do not pull on the oxygen mask lanyard.

NOTE: If you pull on the oxygen mask lanyard, the oxygen generator will fire.

EFFECTIVITY
HAP ALL

D633A101-HAP

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35-22-31

Config 1
Page 208
Jun 10/2004



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-22-31-040-003-001

WARNING: INSTALL A RELEASE PIN OR A SAFETY PIN WITH THE WARNING FLAG INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF YOU REMOVE THE RELEASE PIN AND THE SAFETY PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F (230°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (APPROXIMATELY ONE HOUR).

(4) Do this task: Oxygen Generator Deactivation, TASK 35-22-11-000-811-001.

SUBTASK 35-22-31-210-009-001

(5) Do a check of the applicable oxygen masks:

- (a) Make sure the oxygen masks are not torn or damaged.
- (b) Make sure the oxygen masks are clean and free from contamination such as:
 - 1) dirt
 - 2) grease
 - 3) oil
 - 4) unwanted material.

SUBTASK 35-22-31-210-010-001

(6) Do a check of the applicable oxygen supply hoses:

- (a) Make sure the oxygen supply hoses are not torn or damaged.
- (b) Make sure the oxygen supply hoses are soft and flexible.
- (c) Make sure the color of the oxygen supply hoses have not deteriorated.
- (d) Make sure each mask is held securely to the oxygen supply hose.

SUBTASK 35-22-31-900-004-001

(7) If an oxygen mask or oxygen supply hose is not serviceable, do this task: ASU and LSU Oxygen Mask Removal, TASK 35-22-31-000-802-001.

D. ASU and LSU Oxygen Mask Packing

SUBTASK 35-22-31-010-017-001

(1) Go to the applicable ASU or LSU in the passenger cabin.

SUBTASK 35-22-31-420-006-001

(2) Do these steps to fold an oxygen mask (Figure 204):

NOTE: Fold one mask at a time and then put the folded mask in the oxygen mask box.
Continue with the remaining oxygen masks.

- (a) STEP 1 - Prepare to fold the oxygen mask:
 - 1) Isolate all of the lanyards and oxygen supply hoses.
 - 2) Unfold and flatten the reservoir bag.
 - 3) Put the headstrap on the reservoir bag.
- (b) STEP 2 - Fold the oxygen mask:
 - 1) Fold the bag in thirds, lengthwise, over the headstrap.
- (c) STEP 3 AND STEP 4: Position the reservoir bag in the face piece:
 - 1) Wrap the folded reservoir bag up the side of the facepiece (step 3).
 - 2) Put the bag-to-hose connection in the center and bottom of the facepiece (Step 4).

EFFECTIVITY
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D633A101-HAP

35-22-31

Config 1
Page 209
Jun 10/2004



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- 3) Push the bag-to-hose connection to the left side of the facepiece (step 4).
- (d) STEP 5: Coil the oxygen supply hose:
 - 1) Start to coil the supply hose counterclockwise in the facepiece cup.
 - 2) Make sure the supply hose is coiled on top of the reservoir bag.
 - 3) Press the supply hose firmly down and against the inside wall of the facepiece.
 - 4) Keep the supply hose coil below the top surface of the facepiece.
 - 5) Continue to coil the supply hose to the flow indicator.
 - 6) Leave the lanyard out of the facepiece.
 - 7) If the mask has a lanyard attached to the supply hose, put the lanyard over the facepiece.
 - 8) If the mask has a lanyard attached to the facepiece, leave the lanyard out of the mask.
 - 9) If the mask has a streamer attached, do not fold the streamer and streamer cord until after you position the mask in the ASU or LSU.

SUBTASK 35-22-31-410-003-001

- (3) Do these steps to install the ASU and LSU oxygen masks in the oxygen box (Figure 202).
 - (a) One or two people can do the packing procedure.
 - (b) To make the packing procedure easier, you can apply two pieces of masking tape between the ceiling panel and the oxygen box door to hold the door partially open.

NOTE: Make sure there is enough space to let you put the oxygen masks on the top of the oxygen box door.
 - (c) Turn the folded oxygen mask until the open end of the facepiece is up (View B).
 - (d) ASU locations and AFT LSU locations, do these steps to install the masks in the oxygen box (Figure 202 and Figure 203):
 - 1) Put the coiled oxygen mask in the oxygen box against the oxygen generator (open end of the facepiece against the oxygen generator).
 - 2) Slide the oxygen mask toward the open side of the oxygen box (approximately 30 degrees).

WARNING: IF YOU PUSH THE OXYGEN MASKS TOO FAR INTO THE OXYGEN BOX, THE OXYGEN MASKS CAN GET CAUGHT BETWEEN THE OXYGEN GENERATOR AND THE OXYGEN BOX STRUCTURE. IF THE OXYGEN MASKS ARE CAUGHT AGAINST THE OXYGEN GENERATOR, THE MASKS WILL NOT DROP DURING AN EMERGENCY.

- 3) Make sure that the oxygen mask is free to drop straight down and out of the oxygen box.
- 4) Hold the oxygen mask in this position and do the previous steps again for the other oxygen mask.
- 5) Make sure the oxygen masks and cable routing will not keep the oxygen box door in the open position.
 - a) If it is necessary move the oxygen masks.
- (e) FORWARD LSU (Figure 203) (View A); Do these steps to install the masks in the oxygen box:
 - 1) Put the coiled oxygen mask in the oxygen box (open end of the facepiece against the top surface of the oxygen box).

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D633A101-HAP

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35-22-31

Config 1
Page 210
Feb 15/2008



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- 2) Position the oxygen mask with the reservoir bag away from the oxygen generator.
- 3) Make sure that the oxygen mask is free to drop straight down and out of the oxygen box.
- 4) Hold the oxygen mask in this position and do the previous steps again for the other oxygen mask.
- 5) Make sure the oxygen masks and cable routing will not keep the oxygen box door in the open position.
 - a) If it is necessary move the oxygen masks.

SUBTASK 35-22-31-420-007-001

- (4) Do these steps to pack the streamer and streamer cord (all locations except the forward ASU):
 - (a) Hold the oxygen masks in position.
 - (b) Fold the streamer lengthwise in segments approximately two inches long.
 - (c) Loosely coil the streamer cord lengthwise around the streamer.
 - (d) Continue to coil the streamer cord all the way to the oxygen mask.
 - (e) Put the coiled streamer on the bottom of the closed end of the facepiece.
 - (f) Hold the streamer and oxygen mask in position while you coil the other streamer.
 - (g) Make sure the coiled streamer is positioned to fall first when the oxygen box door is opened during an emergency.

NOTE: The weight of the streamer will help the oxygen mask and supply line fall out of the box during an emergency.

SUBTASK 35-22-31-210-011-001

- (5) Do this task: Oxygen Generator Activation, TASK 35-22-11-400-811-001.

SUBTASK 35-22-31-210-013-001

- (6) Do these steps to check the installation of the oxygen masks:
 - (a) Make sure all of the mask lanyard rings are attached to the release cable.
 - (b) Do a check of the release cable routing to make sure the release pin will pull away from the oxygen generator firing mechanism when the oxygen masks are deployed.
 - (c) Make sure the supply hoses are not bent too much or crimped.
 - (d) Make sure the mask lanyards are not wrapped around a hose, elastic band, end clip, streamer, or other object.
 - (e) Make sure that no part of the oxygen mask or the reservoir bag goes over the oxygen supply manifold or the release cable.
 - (f) Make sure the streamer and oxygen mask are free to fall when the door is opened during an emergency.
 - (g) Do this check (optional):
 - 1) Close the oxygen box door to within one half inch of being closed and then slightly open the door.
 - 2) Make sure the oxygen masks partially fall down with the door to make sure the oxygen masks are free to fall.

SUBTASK 35-22-31-410-004-001

- (7) Do these steps to close the oxygen box door:
 - (a) Hold the oxygen box door.

EFFECTIVITY
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D633A101-HAP

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35-22-31

Config 1
Page 211
Feb 15/2008



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (b) Remove the masking tape from the oxygen box door (if installed).
- (c) Push the reset lever on the latch actuator plunger to set the actuator again.
- (d) Close and latch the oxygen box door.
- (e) Do a visual check of the door alignment to make sure the oxygen equipment is not caught in the oxygen box door or in the actuator.

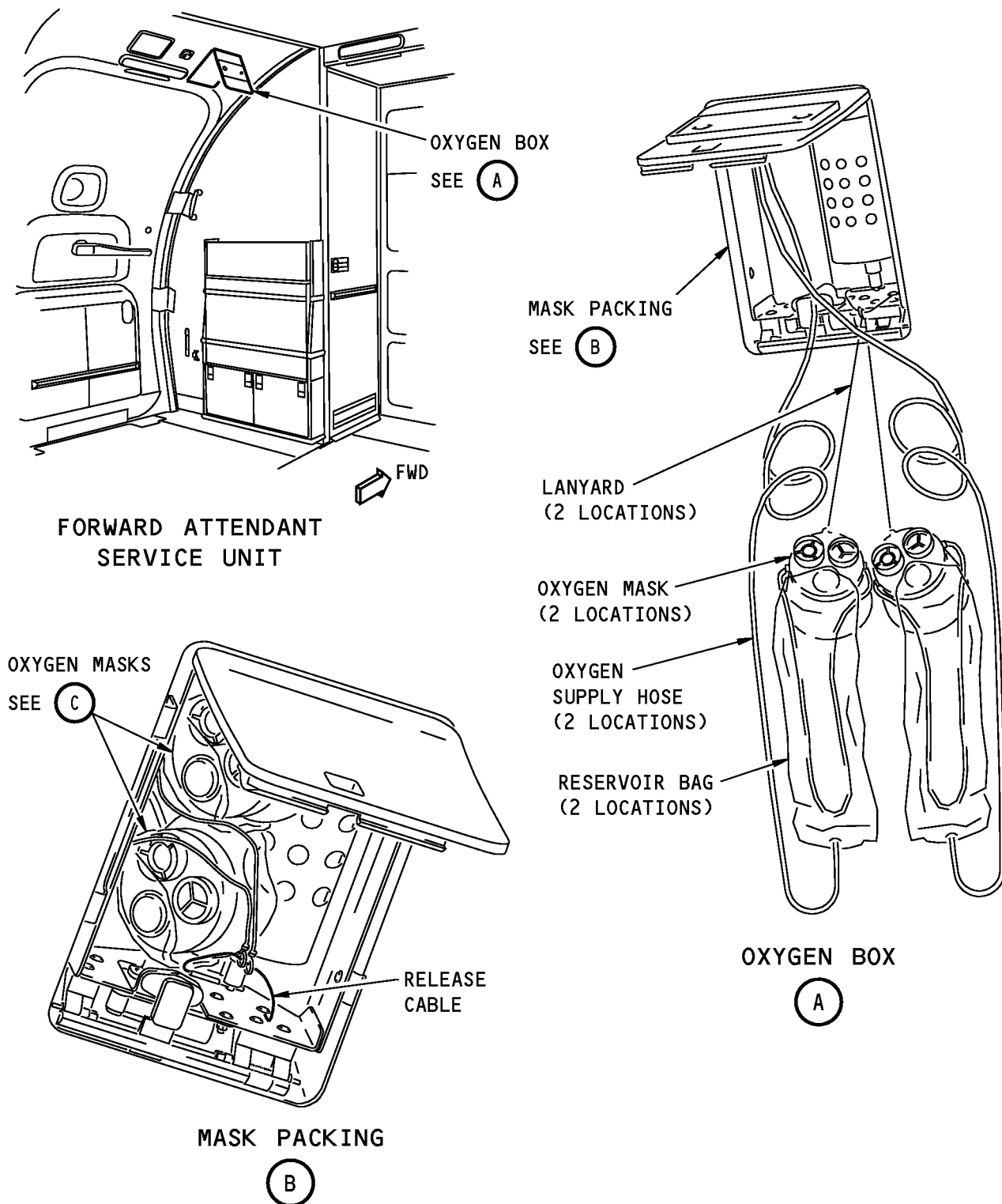
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D633A101-HAP

35-22-31

Config 1
Page 212
Feb 15/2008



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ASU Oxygen Mask Packing Procedure
Figure 202 (Sheet 1 of 4)/35-22-31-990-804-001

EFFECTIVITY
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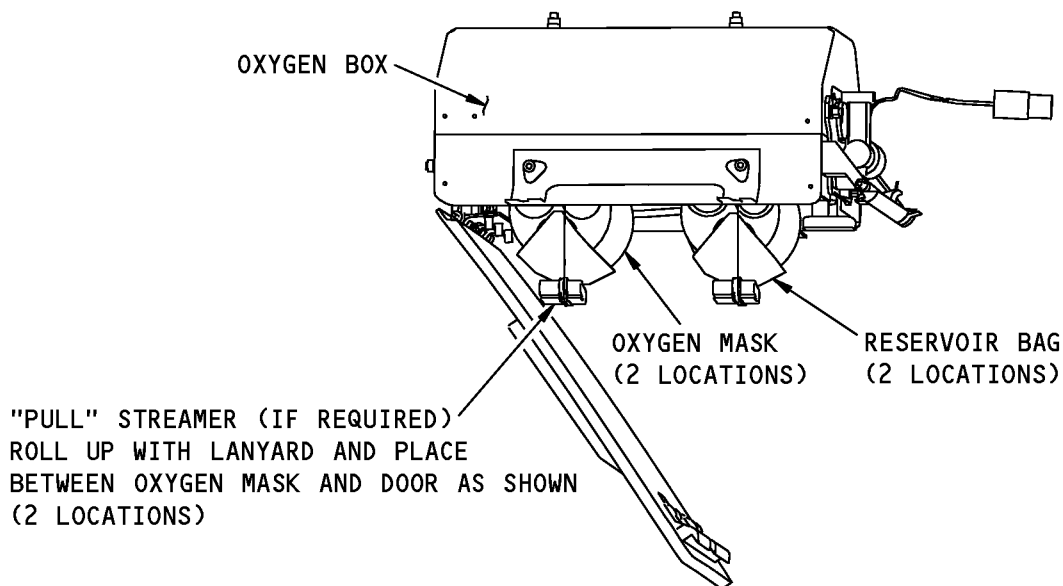
35-22-31

Config 1
 Page 213
 Feb 15/2008

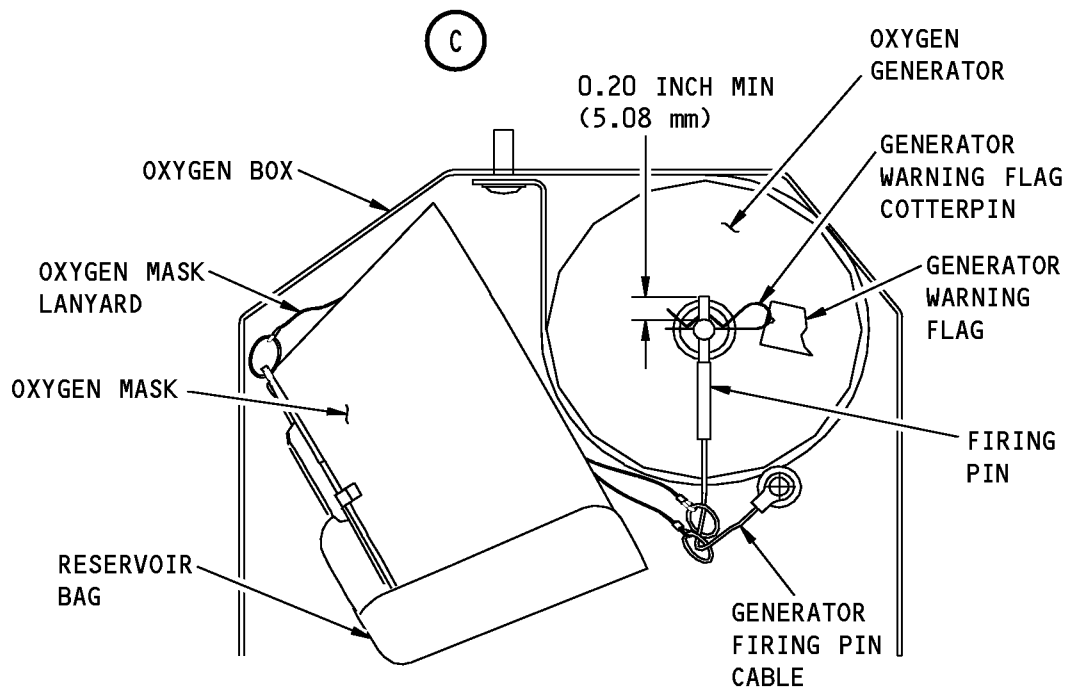


737-600/700/800/900

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OXYGEN MASK (OXYGEN BOX INSTALLED)



NOTE: IF THE OXYGEN MASKS ARE PUSHED TOO FAR INTO THE OXYGEN BOX, THE OXYGEN MASKS CAN GET CAUGHT BETWEEN THE OXYGEN GENERATOR AND THE OXYGEN BOX STRUCTURE. IF THE OXYGEN MASKS ARE CAUGHT AGAINST THE OXYGEN GENERATOR, THE MASKS WILL NOT DROP IN AN EMERGENCY.

OXYGEN MASK

C

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ASU Oxygen Mask Packing Procedure
Figure 202 (Sheet 2 of 4)/35-22-31-990-804-001

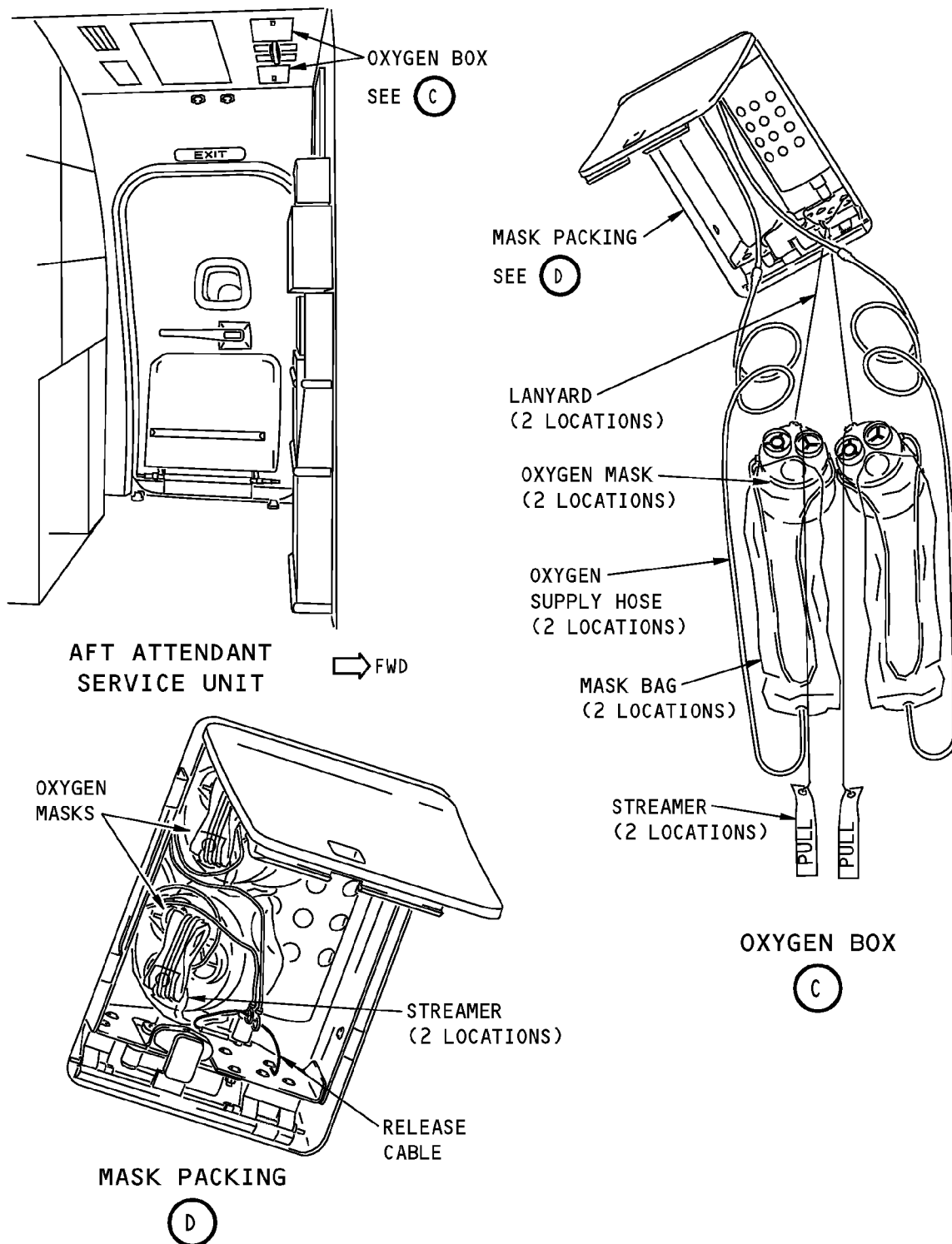
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35-22-31

Config 1
Page 214
Feb 15/2008



ASU Oxygen Mask Packing Procedure
Figure 202 (Sheet 3 of 4)/35-22-31-990-804-001

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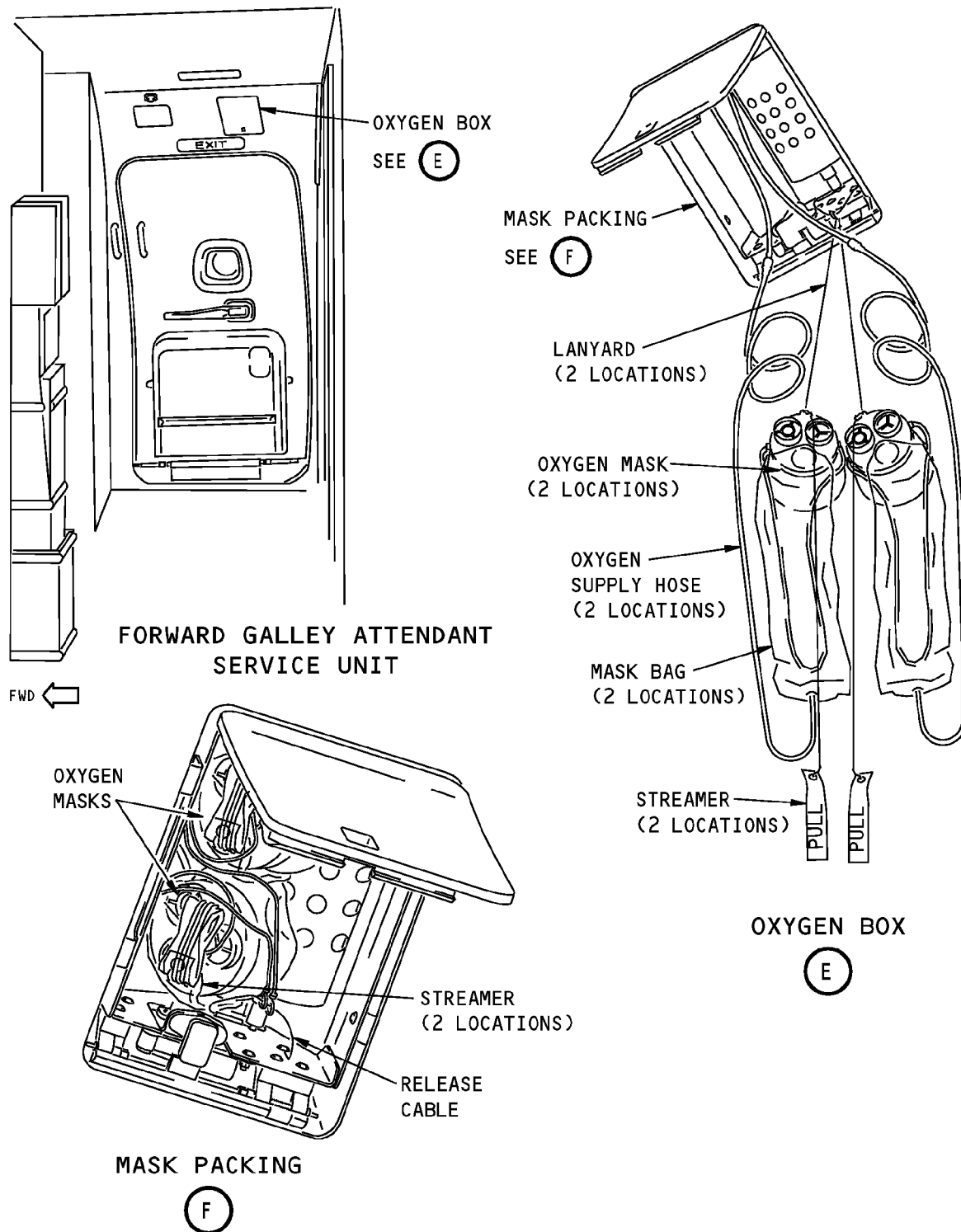
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35-22-31

Config 1
Page 215
Feb 15/2008

737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL



ASU Oxygen Mask Packing Procedure
Figure 202 (Sheet 4 of 4)/35-22-31-990-804-001

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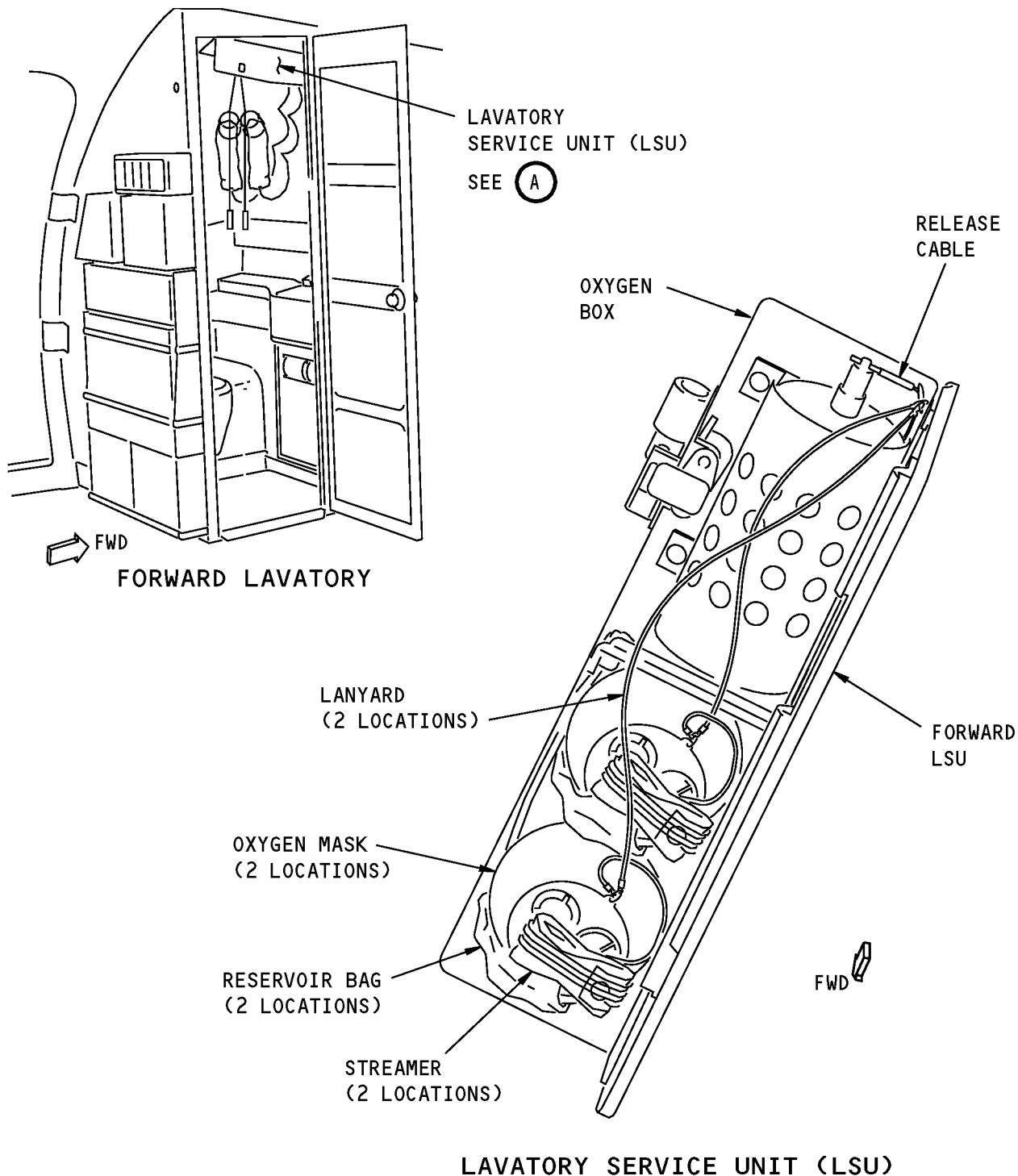
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35-22-31

Config 1
Page 216
Feb 15/2008

AIRCRAFT MAINTENANCE MANUAL



LAVATORY SERVICE UNIT (LSU)

(A)

LSU Oxygen Mask Packing Procedure
Figure 203 (Sheet 1 of 2)/35-22-31-990-805-001

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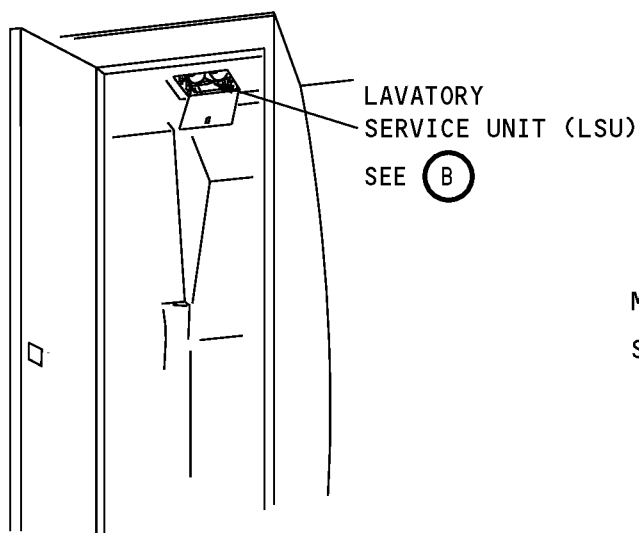
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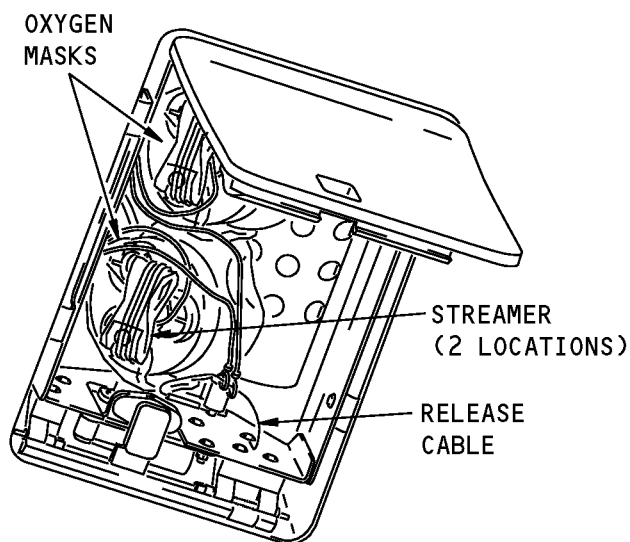
35-22-31

Config 1
Page 217
Feb 15/2008

AIRCRAFT MAINTENANCE MANUAL

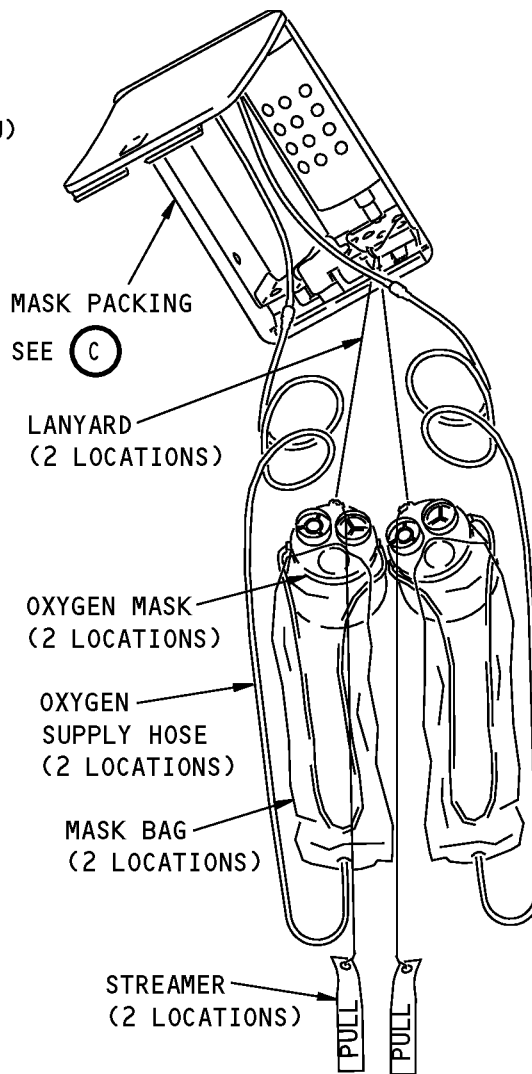


**AFT LAVATORY
(EXAMPLE)**



MASK PACKING

(C)



LAVATORY SERVICE UNIT

(B)

LSU Oxygen Mask Packing Procedure
Figure 203 (Sheet 2 of 2)/35-22-31-990-805-001

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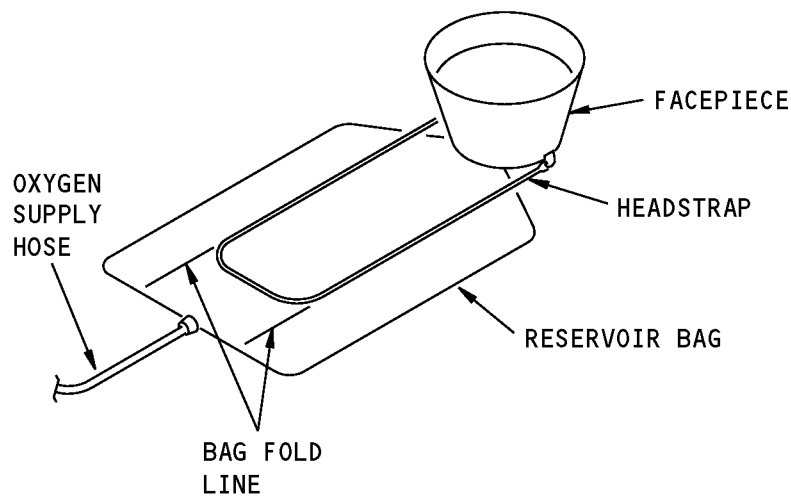
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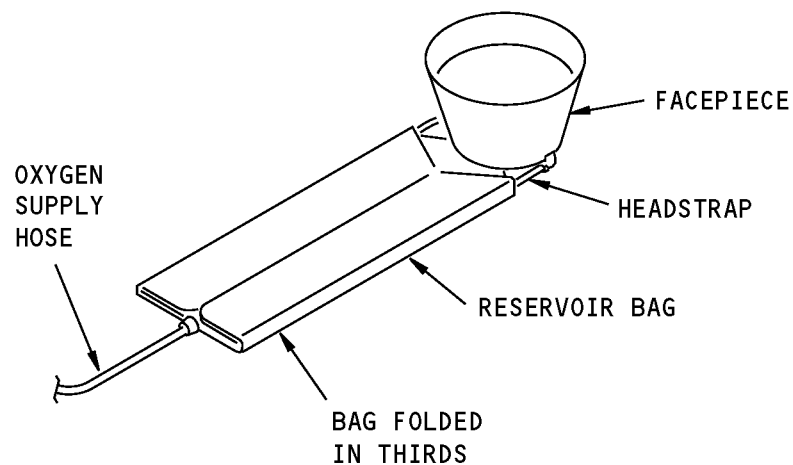
Config 1
Page 218
Feb 15/2008



737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL



STEP 1



STEP 2

PREPARATION OF MASK ASSEMBLY

Oxygen Mask Packing Procedure
Figure 204 (Sheet 1 of 3)/35-22-31-990-806-001

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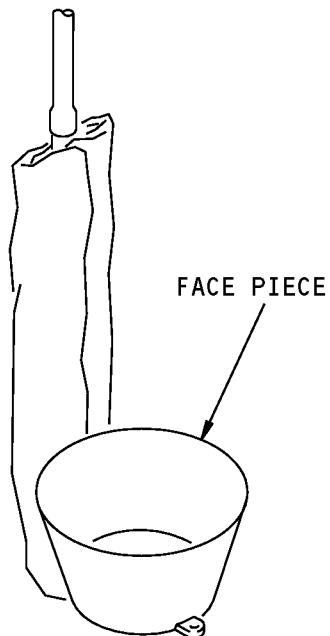
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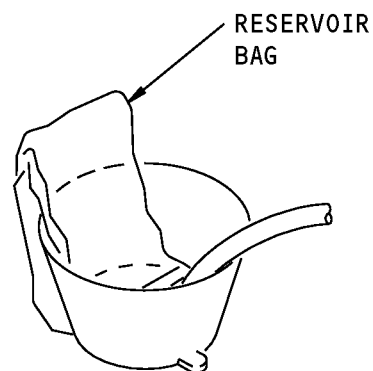
35-22-31
Config 1
Page 219
Feb 15/2008



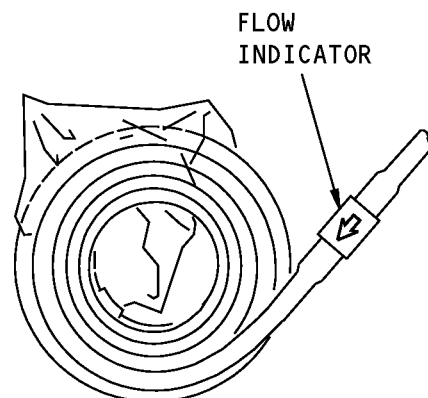
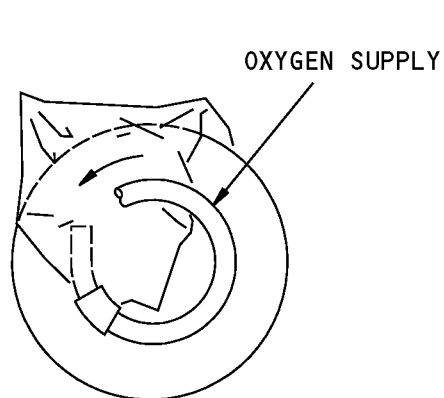
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AIRCRAFT MAINTENANCE MANUAL



STEP 3



STEP 4



STEP 5

Oxygen Mask Packing Procedure
Figure 204 (Sheet 2 of 3)/35-22-31-990-806-001

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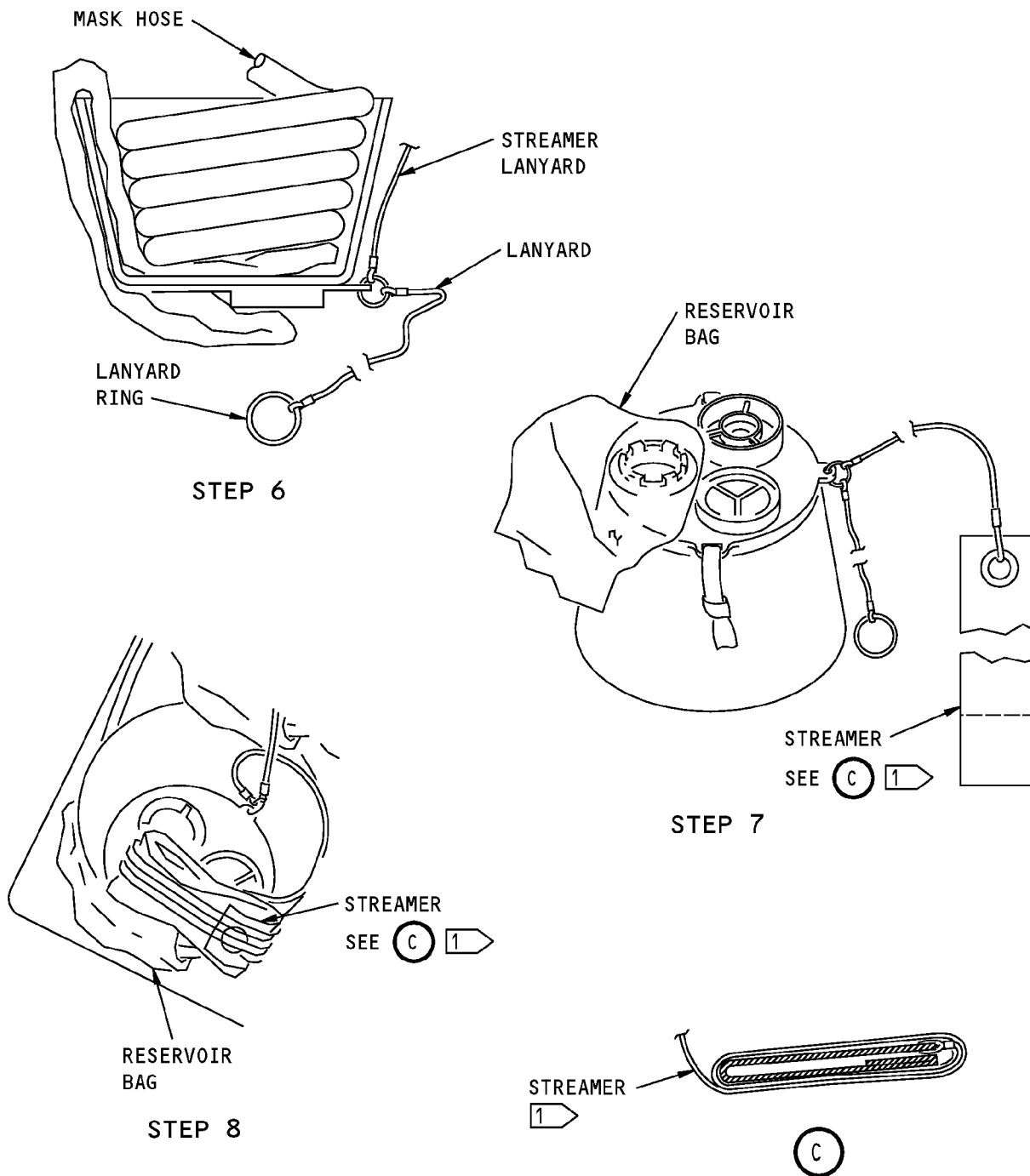
35-22-31

Config 1
Page 220
Feb 15/2008



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL



1 INSTALLATIONS WITH OXYGEN MASK STREAMERS

Oxygen Mask Packing Procedure
Figure 204 (Sheet 3 of 3)/35-22-31-990-806-001

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HAP ALL

D633A101-HAP

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35-22-31

Config 1
Page 221
Feb 15/2008



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 35-22-31-210-801-001

4. Visual Inspection of the Oxygen Mask

A. General

- (1) This procedure is a scheduled maintenance task.

B. References

Reference	Title
25-23-61-000-801	Passenger Service Unit (PSU) Removal (P/B 201)
25-23-61-400-801	Passenger Service Unit (PSU) Installation (P/B 201)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-31-000-801-001	PSU Oxygen Mask Removal (P/B 401)
35-22-31-000-802-001	ASU and LSU Oxygen Mask Removal (P/B 401)
35-22-31-400-801-001	PSU Oxygen Mask Installation (P/B 401)
35-22-31-400-802-001	ASU and LSU Oxygen Mask Installation (P/B 401)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Prepare to Inspect the Oxygen Mask

SUBTASK 35-22-31-910-008-001

- (1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-22-31-010-018-001

- (2) Get access to the oxygen masks as follows:
- (a) To lower the applicable PSU for the passenger oxygen masks, do this task: Passenger Service Unit (PSU) Removal, TASK 25-23-61-000-801.
 - (b) For the attendant or lavatory oxygen masks, do these steps:
 - 1) Go to the applicable ASU or LSU.
 - 2) Put a tool into the latch access hole.
 - 3) Push up on the tool to operate the door latch.
 - 4) Open the oxygen box door.
 - 5) Let the oxygen masks fall.

E. Inspect the Oxygen Mask

SUBTASK 35-22-31-210-014-001

- (1) Do a visual check of the general condition of the oxygen masks.
- (a) Make sure the oxygen masks are not torn or damaged.
 - (b) Make sure the oxygen masks are clean and free from contamination such as:
 - 1) dirt
 - 2) grease
 - 3) oil
 - 4) unwanted material.

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HAP ALL

D633A101-HAP

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35-22-31

Config 1
Page 222
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-22-31-210-015-001

- (2) Do a visual check of the applicable oxygen supply hoses.
- (a) Make sure the oxygen supply hoses are not torn or damaged.
 - (b) Make sure the oxygen supply hoses are soft and flexible.
 - (c) Make sure the color of the oxygen supply hoses has not deteriorated.

NOTE: If a hose has been pinched or kinked to a point of showing discoloration or crushing of the tube, that hose requires replacement. If there is no evidence that the hose has been cut, discolored, crushed to the point of restricting oxygen flow, the hose is acceptable for re-use slight crimping / pinching of PSU oxygen tubing is not a concern because the tubing has an internal structure that allows flow of oxygen even when pinched.

- (d) Make sure each mask is held securely to the oxygen supply hose.

SUBTASK 35-22-31-210-028-001

- (3) Visually examine the oxygen mask hoses and oxygen mask bags for the presence of liquid contaminants on the inside and outside surfaces.

NOTE: A liquid substance on the inside and outside surfaces may indicate the diffusion of phthalate plasticizer, a substance used to make the material flexible over the normal operating temperature range. The plasticizer can diffuse out of the material due to aging, thermal effects, and humidity.

- (a) If there are liquid contaminants found, replace the applicable oxygen mask assembly.
 - 1) For the passenger oxygen masks, replace the PSU oxygen masks. These are the tasks:
PSU Oxygen Mask Removal, TASK 35-22-31-000-801-001,
PSU Oxygen Mask Installation, TASK 35-22-31-400-801-001.
 - 2) For the attendant or lavatory oxygen masks, replace the ASU or LSU oxygen masks. These are the tasks:
ASU and LSU Oxygen Mask Removal, TASK 35-22-31-000-802-001,
ASU and LSU Oxygen Mask Installation, TASK 35-22-31-400-802-001.

SUBTASK 35-22-31-210-016-001

- (4) Make sure the lanyards are attached to the release cable.

SUBTASK 35-22-31-900-005-001

- (5) If the oxygen mask or oxygen supply hose is not serviceable, replace them as necessary.
- (a) For the passenger oxygen masks, replace the PSU oxygen masks. These are the tasks:
PSU Oxygen Mask Removal, TASK 35-22-31-000-801-001,
PSU Oxygen Mask Installation, TASK 35-22-31-400-801-001.
 - (b) For the attendant or lavatory oxygen masks, replace the ASU or LSU oxygen masks. These are the tasks:
ASU and LSU Oxygen Mask Removal, TASK 35-22-31-000-802-001,
ASU and LSU Oxygen Mask Installation, TASK 35-22-31-400-802-001.

SUBTASK 35-22-31-530-001-001

- (6) To pack the oxygen mask for the ASU and LSU oxygen box, do this task: ASU and LSU Oxygen Mask Packing, TASK 35-22-31-000-804-001.

SUBTASK 35-22-31-410-005-001

- (7) Close the applicable service unit access.

EFFECTIVITY
HAP ALL

D633A101-HAP

35-22-31

Config 1
Page 223
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (a) To close the PSU for the passenger oxygen masks, (Passenger Service Unit (PSU) Installation, TASK 25-23-61-400-801).
- (b) For the attendant or lavatory oxygen masks, do these steps to close the ASU or LSU oxygen box door:
 - 1) Hold the oxygen box door.
 - 2) Remove the masking tape from the oxygen box door (if installed).
 - 3) Push the reset lever on the latch actuator plunger to set the actuator again.
 - 4) Close and latch the oxygen box door.
 - 5) Do a visual check of the door alignment to make sure the oxygen equipment is not caught in the oxygen box door or in the actuator.

————— **END OF TASK** —————

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HAP ALL

D633A101-HAP

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35-22-31

Config 1
Page 224
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

PASSENGER OXYGEN MASK - REMOVAL/INSTALLATION

1. General

- A. This procedure contains these tasks:
- (1) PSU Oxygen Mask Removal
 - (2) PSU Oxygen Mask Installation
 - (3) ASU/LSU Oxygen Mask Removal
 - (4) ASU/LSU Oxygen Mask Installation.
- B. The passenger oxygen masks are found in the passenger cabin above each passenger seat. Oxygen masks are also found above the attendant seats and in each of the lavatories. The passenger oxygen masks are found in the oxygen boxes in each of these LRUs:
- (1) Passenger Service Unit (PSU)
 - (2) Attendant Service Unit (ASU)
 - (3) Lavatory Service Unit (LSU).
- C. The removal and installation of the passenger oxygen masks is similar for the ASU and LSU locations.
- D. Before you do maintenance on an oxygen system component that contains an oxygen generator you must install a safety pin in the generator firing mechanism. The safety pin will let the generator to be handled. If the safety pin is not installed, the oxygen generator can fire.

TASK 35-22-31-000-801-001

2. PSU Oxygen Mask Removal

(Figure 401)

A. References

Reference	Title
25-23-61-000-801	Passenger Service Unit (PSU) Removal (P/B 201)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-11-000-811-001	Oxygen Generator Deactivation (P/B 201)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Remove the PSU Oxygen Masks

SUBTASK 35-22-31-910-001-001

- (1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-22-31-860-001-001

- (2) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

EFFECTIVITY
HAP ALL

D633A101-HAP

35-22-31

Config 1
Page 401
Oct 10/2003



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-22-31-010-001-001

- (3) Go to the applicable PSU(s) in the passenger compartment and lower the PSU.

SUBTASK 35-22-31-010-002-001

- (4) To lower the PSU, do this task: Passenger Service Unit (PSU) Removal, TASK 25-23-61-000-801.

SUBTASK 35-22-31-010-003-001

WARNING: INSTALL A RELEASE PIN OR A SAFETY PIN WITH THE WARNING FLAG INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF YOU REMOVE THE RELEASE PIN AND THE SAFETY PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F (230°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (WAIT APPROXIMATELY ONE HOUR).

- (5) Do this task: Oxygen Generator Deactivation, TASK 35-22-11-000-811-001.

SUBTASK 35-22-31-010-004-001

- (6) Do these steps to remove the PSU oxygen masks [6] from the mask box [9]:
- (a) Remove the oxygen mask box cover [1] from the mask box [9].
 - 1) Keep the mask box cover [1] for the installation.
 - (b) Pull the oxygen masks [6] with the oxygen supply lines [7] and lanyard [5] up through the top of the mask box [9].
 - (c) Let the oxygen masks [6] to hang from the top of the PSU.
 - (d) Remove the cotter pin [4] from the mask box [9].
 - (e) Remove the lanyard rings [3] from the end of the release cable [2].
 - (f) Disconnect the oxygen supply line [7] from the oxygen manifold [8] (View A-A).
 - (g) Do the steps again for the other oxygen masks [6] in the other PSU mask box [9] (if it is necessary).
 - (h) Remove the oxygen masks [6] from the airplane.

SUBTASK 35-22-31-970-001-001

- (7) Make a report in the airplane logbook that states that one or more PSU oxygen masks have been removed and must be installed before the airplane is released for flight.

————— **END OF TASK** —————

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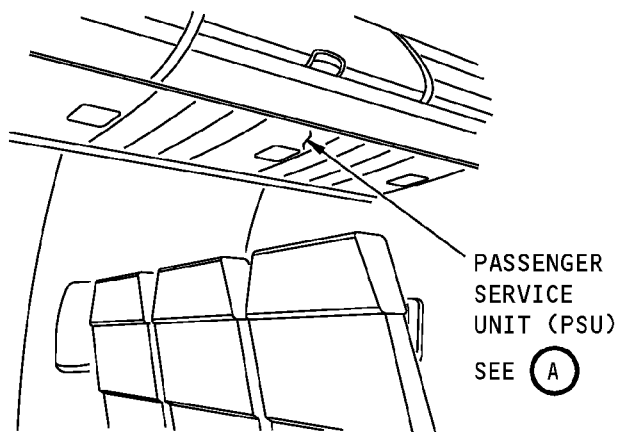
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Config 1
Page 402
Jun 10/2005

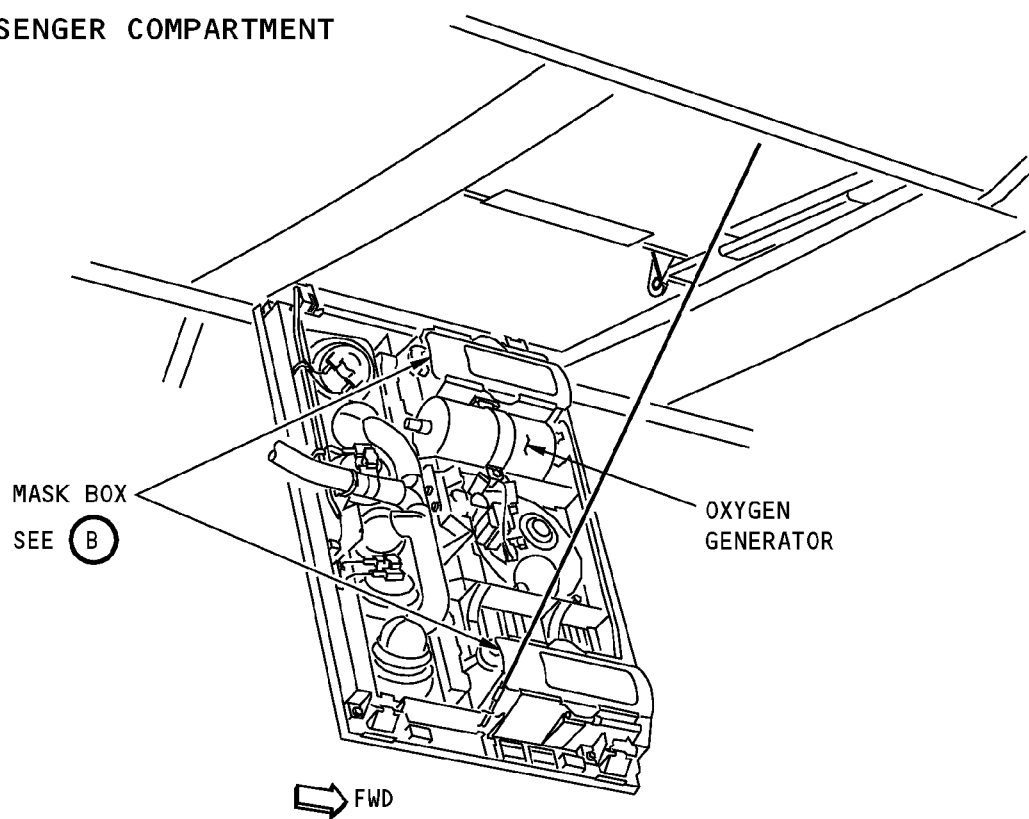


737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL



PASSENGER COMPARTMENT



PASSENGER SERVICE UNIT (PSU)
(EXAMPLE)

(A)

PSU Oxygen Mask Installation
Figure 401 (Sheet 1 of 2)/35-22-31-990-801-001

EFFECTIVITY
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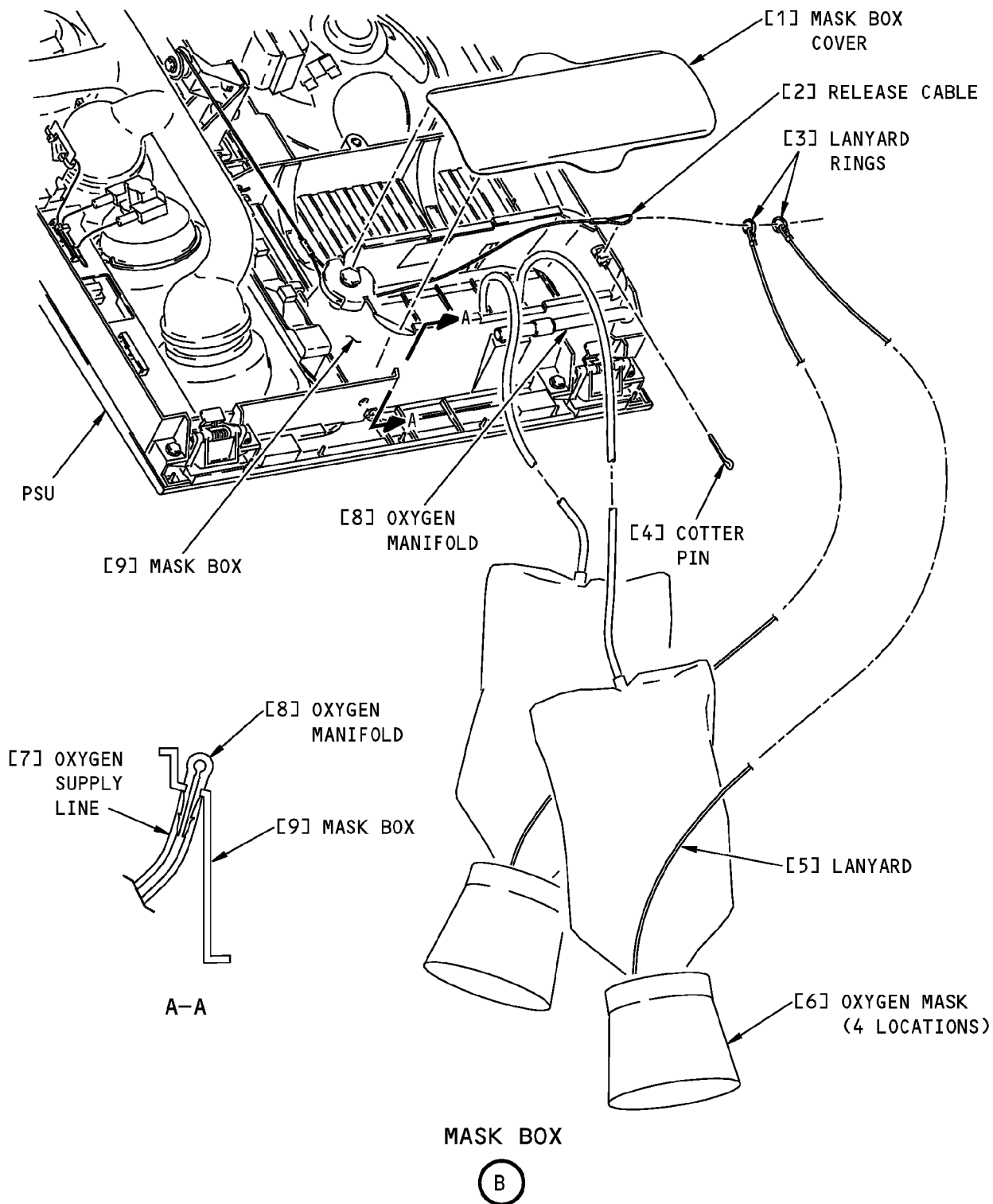
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35-22-31

Config 1
Page 403
Oct 10/2003

AIRCRAFT MAINTENANCE MANUAL



PSU Oxygen Mask Installation
Figure 401 (Sheet 2 of 2)/35-22-31-990-801-001

EFFECTIVITY
HAP ALL

D633A101-HAP

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35-22-31

Config 1
Page 404
Oct 10/2003



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 35-22-31-400-801-001

3. PSU Oxygen Mask Installation

NOTE: See Figure 401.

A. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-31-000-803-001	PSU Oxygen Mask Packing (P/B 201)

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
6	Mask	35-22-11-28B-165	HAP 001-013, 015-026, 028-037, 039, 040
		35-22-11-28C-165	HAP 001-013, 015-026, 028-037, 039, 040
		35-22-11-50Q-180	HAP 048
		35-22-11-50R-180	HAP 048
		35-22-11-51-180	HAP 038, 041-047, 049-054
		35-22-11-51A-180	HAP 038, 041-047, 049-054
		35-22-11-51N-180	HAP 101-999
		35-22-11-51P-180	HAP 101-999

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Procedure

SUBTASK 35-22-31-910-002-001

- (1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-22-31-210-001-001

- (2) Do a check of the replacement oxygen masks [6]:
 - (a) Make sure the oxygen masks [6] are not torn or damaged.
 - (b) Make sure the oxygen masks [6] are clean and free from contamination such as:
 - 1) dirt
 - 2) grease
 - 3) oil
 - 4) unwanted material.
 - (c) Make sure the elastic straps are held securely to the oxygen masks [6].

SUBTASK 35-22-31-210-002-001

- (3) Do a check of the oxygen supply lines [7] on the replacement oxygen masks [6]:
 - (a) Make sure the oxygen supply lines are not torn or damaged.
 - (b) Make sure the oxygen supply lines are soft and flexible.
 - (c) Make sure the color of the oxygen supply lines have not deteriorated.

EFFECTIVITY
HAP ALL

D633A101-HAP

35-22-31

Config 1
Page 405
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (d) Make sure the oxygen masks [6] are held securely to the oxygen supply lines.

SUBTASK 35-22-31-900-001-001

- (4) If an oxygen mask or oxygen supply line is not serviceable, replace the oxygen mask [6].

SUBTASK 35-22-31-420-001-001

- (5) Do these steps to install the oxygen mask [6] in the PSU (Figure 401):

- (a) Put the oxygen masks [6] in their positions.
- (b) Attach the oxygen supply line [7] to the oxygen manifold [8] in the PSU mask box [9] (View A-A).
- (c) Attach the lanyard rings [3] to the release cable [2].
- (d) Put the release cable [2] in position in the mask box [9].
- (e) Use the cotter pin [4] to attach the release cable [2] to the mask box (View B).

SUBTASK 35-22-31-420-002-001

- (6) Do this task: PSU Oxygen Mask Packing, TASK 35-22-31-000-803-001.

SUBTASK 35-22-31-860-002-001

- (7) Make sure that these circuit breakers are closed:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

SUBTASK 35-22-31-970-002-001

- (8) Remove the report from the airplane logbook that states that the PSU oxygen masks have been removed.

————— END OF TASK —————

TASK 35-22-31-000-802-001

4. ASU and LSU Oxygen Mask Removal

(Figure 402)

A. General

- (1) The ASU and LSU oxygen masks are found above the attendant seats and in each of the lavatories.
- (2) The installation and removal of the oxygen masks from the ASU and LSU is similar. Figure 402 shows the forward ASU as an example.

B. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-11-000-811-001	Oxygen Generator Deactivation (P/B 201)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

EFFECTIVITY
HAP ALL

D633A101-HAP

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35-22-31

Config 1
Page 406
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

D. Remove the ASU and LSU Oxygen Masks

SUBTASK 35-22-31-910-003-001

- (1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-22-31-860-003-001

- (2) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

SUBTASK 35-22-31-010-005-001

- (3) Go to the applicable ASU or LSU in the passenger compartment.

NOTE: Figure 402 shows the forward ASU oxygen mask removal. The removal and installation of the oxygen masks for the ASUs and LSUs are similar.

SUBTASK 35-22-31-010-006-001

- (4) Do these steps to open the ASU or LSU oxygen box door [22]:
 - (a) Go to the applicable ASU or LSU.
 - (b) Put the flat tool [23] in the door edge gap.
 - (c) Push the flat tool [23] up against the oxygen box door latch [24].
 - (d) Open the oxygen box door [22].
 - (e) Let the oxygen mask assemblies [28] or oxygen mask assemblies [30] to fall.
 - (f) Do not pull on the oxygen mask assemblies [28] or oxygen mask assemblies [30].

NOTE: If you pull on the oxygen masks, the oxygen generator [25] will fire.

SUBTASK 35-22-31-010-007-001

WARNING: INSTALL A RELEASE PIN OR A SAFETY PIN WITH THE WARNING FLAG INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF YOU REMOVE THE RELEASE PIN AND THE SAFETY PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F (230°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (WAIT APPROXIMATELY ONE HOUR).

- (5) To deactivate the oxygen generator, do this task: Oxygen Generator Deactivation, TASK 35-22-11-000-811-001.

SUBTASK 35-22-31-010-008-001

- (6) Do these steps to remove the oxygen mask assemblies [28] or oxygen mask assemblies [30] from the mask box [21]:
 - (a) Make sure the safety pin [29] is installed in the oxygen generator [25].
 - (b) Carefully remove the release pin [26] from the oxygen generator [25] (View C).
 - (c) Remove the lanyard rings [27] from the release pin [26].
 - (d) Remove the oxygen supply lines [32] from the adjustment clamp [31] (View D).

EFFECTIVITY
HAP ALL

D633A101-HAP

35-22-31

Config 1
Page 407
Oct 15/2008



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (e) Disconnect the oxygen supply lines [32] from the oxygen generator manifold.
- (f) Remove the oxygen mask assemblies [28] or oxygen mask assemblies [30] from the airplane.

SUBTASK 35-22-31-970-003-001

- (7) Make a report in the airplane logbook that states that one or more ASU or LSU oxygen masks have been removed and must be installed before the airplane is released for flight.

————— **END OF TASK** —————

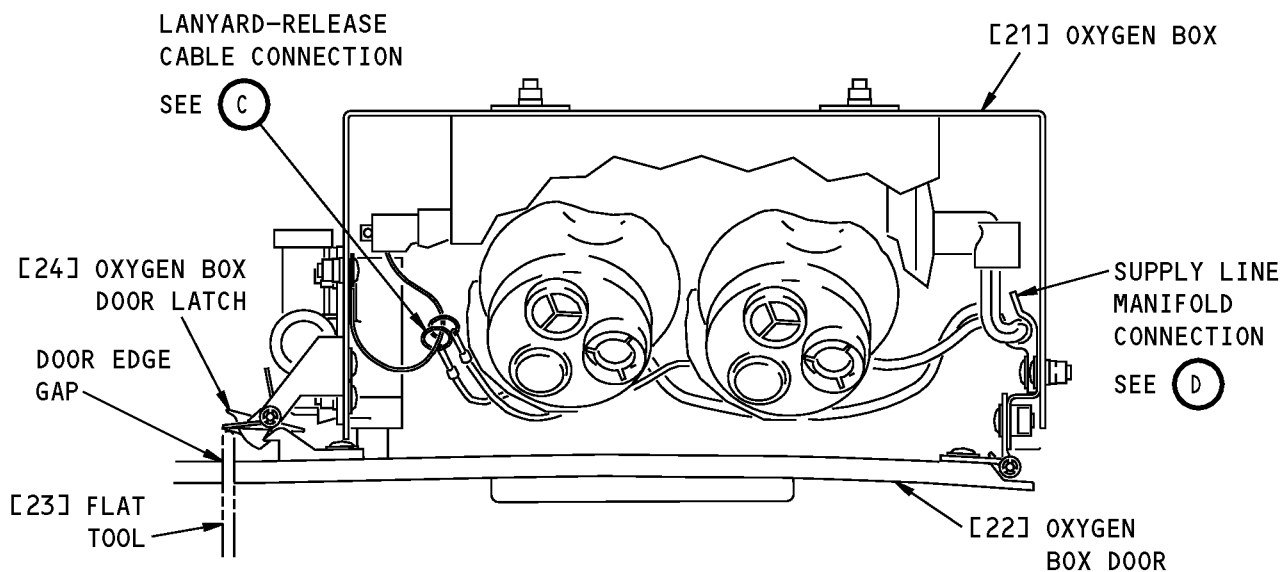
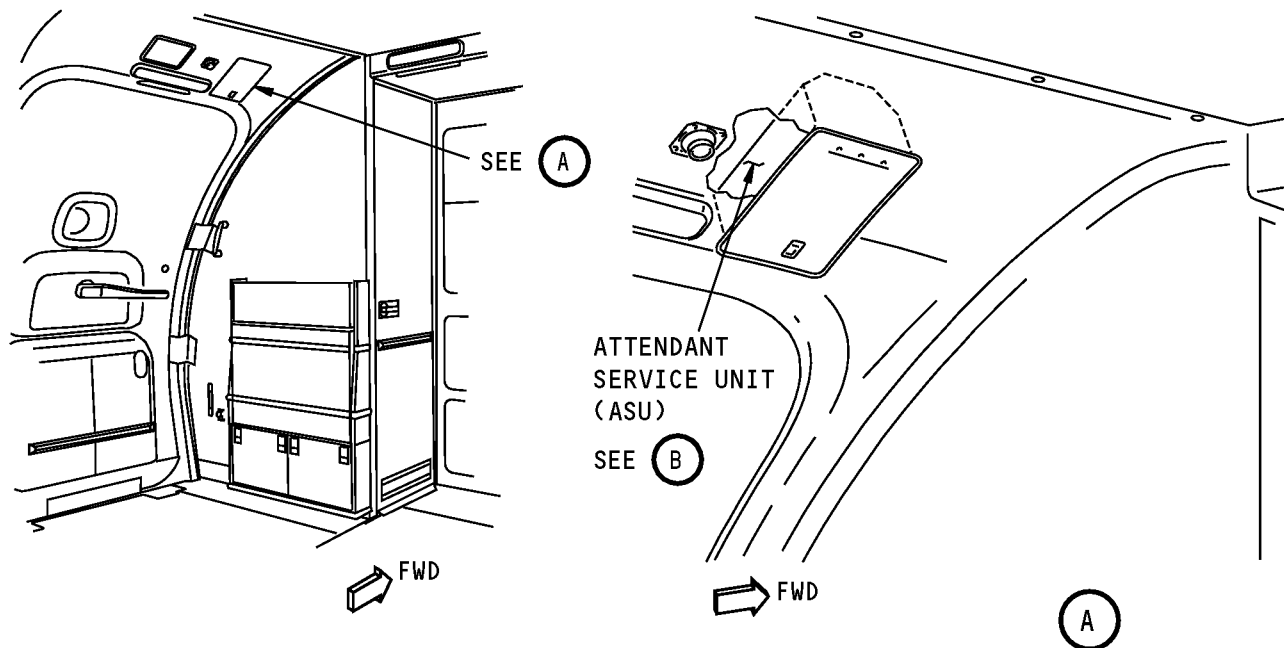
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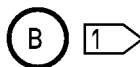
35-22-31

Config 1
Page 408
Oct 15/2008

AIRCRAFT MAINTENANCE MANUAL



**FORWARD ATTENDANT SERVICE UNIT
(EXAMPLE)**



1 FORWARD ASU SHOWN AS AN EXAMPLE.
ALL OF THE ATTENDANT AND LAVATORY
SERVICE UNITS ARE EQUIVALENT.

**ASU/LSU Oxygen Mask Installation
Figure 402 (Sheet 1 of 3)/35-22-31-990-802-001**

EFFECTIVITY
HAP ALL

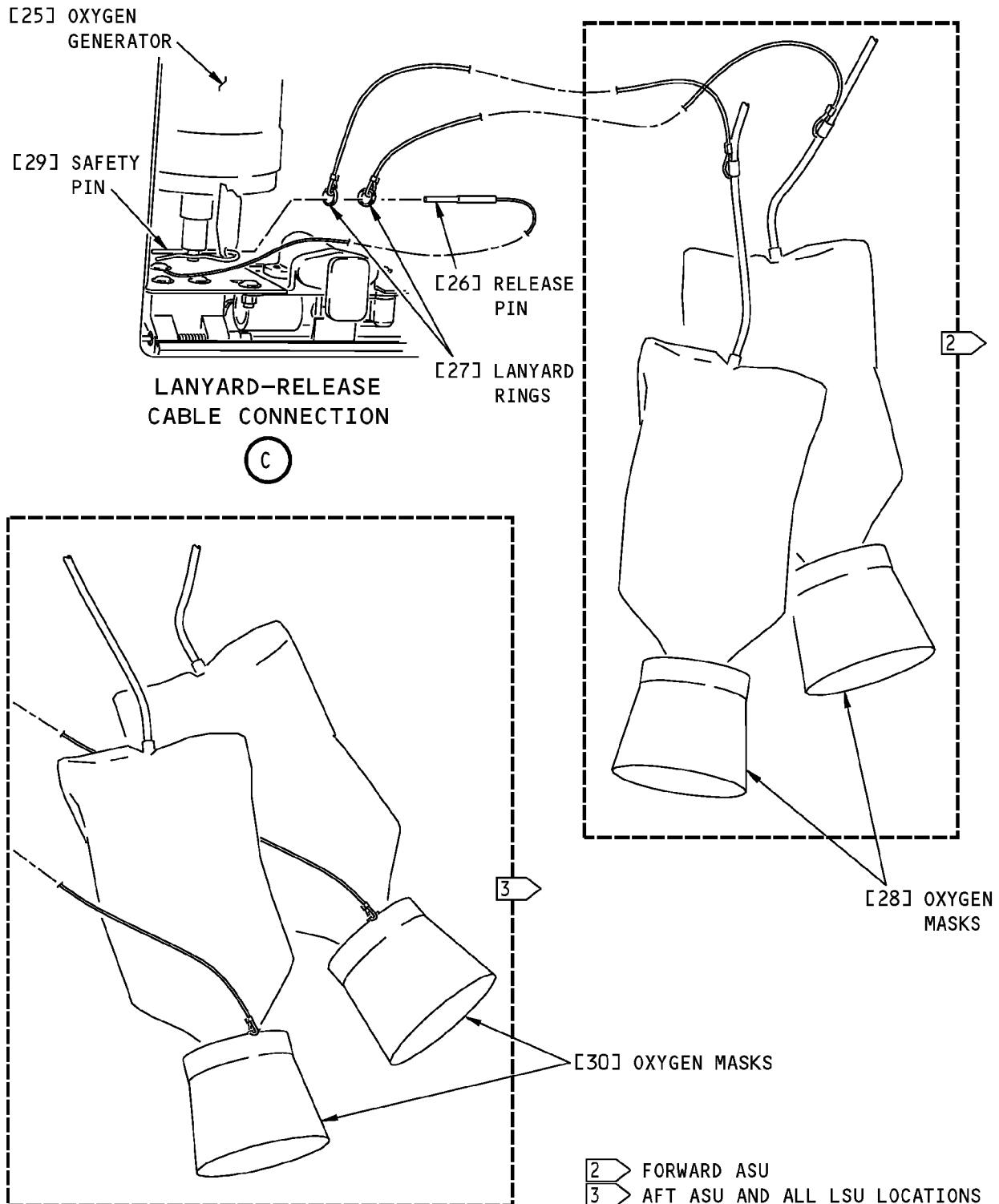
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35-22-31

Config 1
Page 409
Oct 10/2003

AIRCRAFT MAINTENANCE MANUAL



ASU/LSU Oxygen Mask Installation
Figure 402 (Sheet 2 of 3)/35-22-31-990-802-001

EFFECTIVITY
HAP ALL

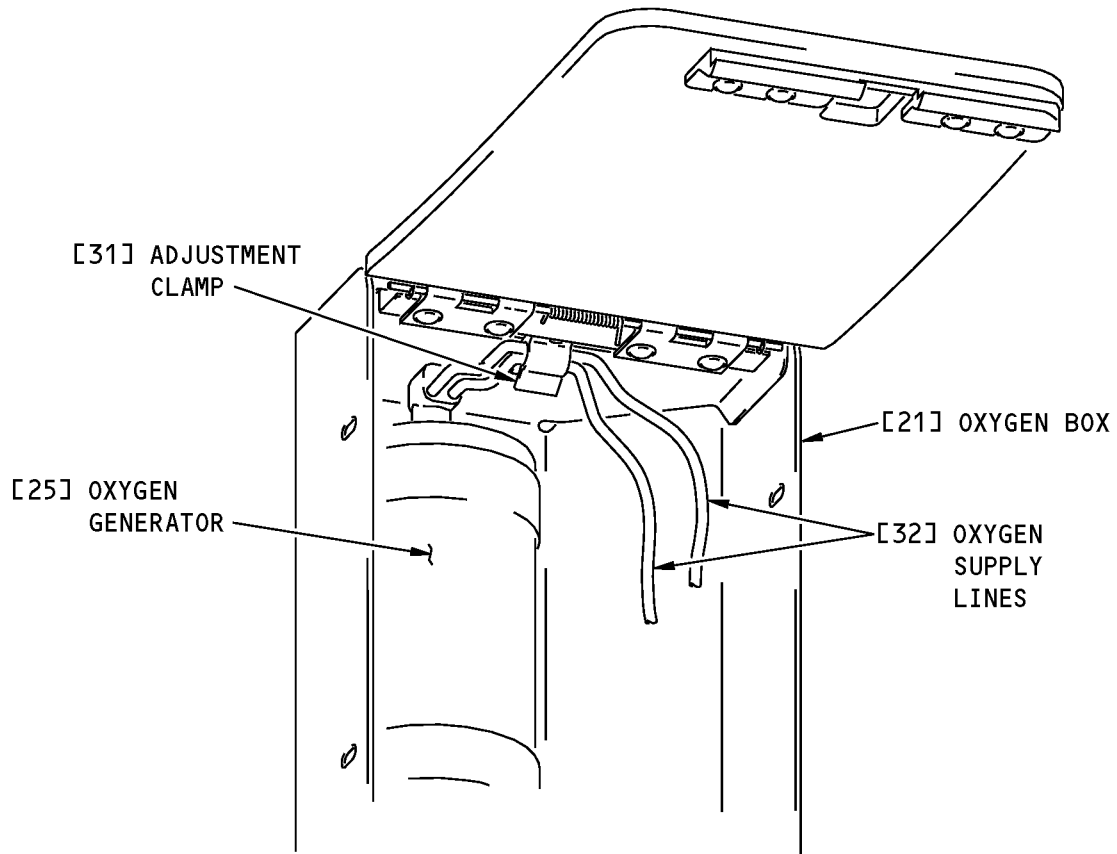
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35-22-31
Config 1
Page 410
Oct 10/2003



737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL



SUPPLY LINE MANIFOLD CONNECTION

D

ASU/LSU Oxygen Mask Installation
Figure 402 (Sheet 3 of 3)/35-22-31-990-802-001

EFFECTIVITY
HAP ALL

D633A101-HAP

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35-22-31

Config 1
Page 411
Oct 10/2003



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 35-22-31-400-802-001

5. ASU and LSU Oxygen Mask Installation

NOTE: See Figure 402.

A. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-31-000-804-001	ASU and LSU Oxygen Mask Packing (P/B 201)

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
28	Mask assembly	35-22-31-13B-100	HAP 012, 013, 015-026
		35-22-31-77A-100	HAP 001-013, 015-026
		35-22-31-89D-100	HAP 031-054, 101-999
		35-22-31-91-100	HAP 028-030
		35-22-31-93-095	HAP 028-036
		35-22-31-93-145	HAP 031-036
		35-22-31-93A-095	HAP 037-054, 101-999
30	Mask assembly	35-22-31-25-045	HAP 001-013, 015-026, 028-030
		35-22-31-26A-090	HAP 031-051, 054, 101-999
		35-22-31-26D-090	HAP 031-054, 101-999
		35-22-31-26E-090	HAP 031-054, 101-106
		35-22-31-26L-045	HAP 052, 053
		35-22-31-26N-045	HAP 107-999
		35-22-31-26W-145	HAP 001-013, 015-026, 028-030
		35-22-31-26X-145	HAP 001-013, 015-026, 028-030
		35-22-31-27-045	HAP 001-013, 015-026
		35-22-31-27F-045	HAP 031-054, 101-999

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Procedure

SUBTASK 35-22-31-910-004-001

- (1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-22-31-210-003-001

- (2) Do a check of the replacement oxygen mask assemblies [28] or oxygen mask assemblies [30]:
 - (a) Make sure the oxygen mask assemblies [28] or oxygen mask assemblies [30] are not torn or damaged.
 - (b) Make sure the oxygen mask assemblies [28] or oxygen mask assemblies [30] are clean and free from contamination such as:
 - 1) dirt

EFFECTIVITY
HAP ALL

D633A101-HAP

35-22-31

Config 1
Page 412
Jun 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- 2) grease
- 3) oil
- 4) unwanted material.

- (c) Make sure the elastic straps are held securely to the oxygen mask assemblies [28] or oxygen mask assemblies [30].

SUBTASK 35-22-31-210-004-001

- (3) Do a check of the oxygen supply lines [32] on the replacement oxygen mask assemblies [28] or oxygen mask assemblies [30].
 - (a) Make sure the oxygen supply lines are not torn or damaged.
 - (b) Make sure the oxygen supply lines are soft and flexible.
 - (c) Make sure the color of the oxygen supply lines have not deteriorated.
 - (d) Make sure each oxygen mask is held securely to the oxygen supply line.

SUBTASK 35-22-31-900-002-001

- (4) If an oxygen mask or oxygen supply line is not serviceable, replace the oxygen masks [28] or oxygen masks [30].

SUBTASK 35-22-31-420-003-001

- (5) Do these steps to install the oxygen mask assemblies [28] or oxygen mask assemblies [30] to the ASU or LSU oxygen box [21]:
 - (a) Put the oxygen mask assemblies [28] or oxygen mask assemblies [30] in their positions.
 - (b) Attach the oxygen supply line [32] to the oxygen manifold on the oxygen generator [25] (View C).
 - (c) Make sure the unused ports on the oxygen generator manifold are plugged.
 - (d) Do these steps to attach the oxygen supply line [32] through the adjustment clamp [31]:
 - 1) Tighten the adjustment clamp [31] to make sure the oxygen supply line [32] does not slip.
 - 2) Make sure the adjustment clamp [31] does not crimp the oxygen supply line [32].
 - (e) Attach the lanyard rings [27] to the release cable [26].
 - (f) Carefully attach the release cable [26] to the firing mechanism on the oxygen generator [25].

SUBTASK 35-22-31-420-004-001

- (6) Do this task: ASU and LSU Oxygen Mask Packing, TASK 35-22-31-000-804-001.

SUBTASK 35-22-31-860-004-001

- (7) Remove the safety tags and close these circuit breakers:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

EFFECTIVITY
HAP ALL

D633A101-HAP

35-22-31

Config 1
Page 413
Jun 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-22-31-970-004-001

- (8) Remove the report from the airplane logbook that states that the ASU/LSU oxygen mask(s) have been removed.

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

D633A101-HAP

35-22-31

Config 1
Page 414
Oct 15/2008



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

PASSENGER OXYGEN MASK - CLEANING/PAINTING

1. General

- A. This procedure contains one task:
 - (1) Clean the Oxygen Mask Assembly.
- B. Clean the oxygen mask assembly and disinfect it with an isopropyl alcohol solution after each use.
- C. This procedure gives instructions to clean the passenger oxygen masks. This includes the oxygen masks in the passenger service units (PSUs), attendant service units (ASUs) and lavatory service units (LSUs).

TASK 35-22-31-100-801-001

2. Clean the Oxygen Mask Assembly

A. General

- (1) Before you do maintenance on an oxygen system component that contains an oxygen generator you must install a safety pin in the generator firing mechanism. The safety pin will let the generator be handled and stored. If the safety pin is not installed, the oxygen generator can fire.

B. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-11-000-811-001	Oxygen Generator Deactivation (P/B 201)
35-22-31-000-803-001	PSU Oxygen Mask Packing (P/B 201)
35-22-31-000-804-001	ASU and LSU Oxygen Mask Packing (P/B 201)

C. Consumable Materials

Reference	Description	Specification
B00130	Alcohol - Isopropyl	TT-I-735
B00541	Cleaner - General Purpose Household Detergent	
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	BMS15-5
G02418	Water - De-ionized	
G50140	Gloves - Protective, Latex or Nitrile	

D. Location Zones

Zone	Area
200	Upper Half of Fuselage

E. Procedure

SUBTASK 35-22-31-910-005-001

- (1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-22-31-010-009-001

- (2) Get access to the applicable oxygen masks in the passenger cabin.

EFFECTIVITY
HAP ALL

D633A101-HAP

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35-22-31

Config 1
Page 701
Jun 15/2008



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-22-31-040-001-001

WARNING: INSTALL A RELEASE PIN OR A SAFETY PIN WITH THE WARNING FLAG INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF YOU REMOVE THE RELEASE PIN AND THE SAFETY PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F (230°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (WAIT APPROXIMATELY ONE HOUR).

- (3) To deactivate the oxygen generator, do this task: Oxygen Generator Deactivation, TASK 35-22-11-000-811-001.

SUBTASK 35-22-31-210-005-001

- (4) Make sure the oxygen masks are not torn or damaged.

SUBTASK 35-22-31-100-005-001

- (5) Do these steps to clean the oxygen mask assembly, if it is dirty or greasy.

- (a) Mix a mild cleaning solution of general purpose household detergent cleaner, B00541 with warm water.

NOTE: Obey the instructions on the label.

- (b) Clean the interior and exterior surfaces of the facepiece and the exterior surfaces of the tubing and bag with a clean cotton wiper, G00034 soaked in cleaning solution.

NOTE: Do not disturb the mask diaphragms or do not permit cleaning solution to enter the mask tubing and reservoir bag.

- (c) Rinse the mask assembly with warm water, and permit the mask assembly to air dry completely.

SUBTASK 35-22-31-100-006-001

- (6) Do these steps to disinfect the mask assembly.

- (a) Put on Latex or Nitrile protective gloves, G50140 before handling the mask assembly. Discard the gloves when the disinfecting task is complete.

- (b) Mix a disinfectant solution of 70 percent alcohol, B00130 and 30 percent de-ionized water, G02418.

- (c) Wipe the mask assembly with a clean cotton wiper, G00034 soaked in disinfectant solution.

NOTE: Make sure the interior and exterior surfaces of the facepiece are thoroughly wiped.

- (d) Permit the mask assembly to air dry completely.

- (e) Examine each mask assembly in a well lighted area.

1) Make sure the mask assembly is visibly clean and free of contamination.

2) Make sure the flappers and diaphragms are seated correctly.

SUBTASK 35-22-31-840-001-001

- (7) Do the applicable task(s):

- (a) Do this task: PSU Oxygen Mask Packing, TASK 35-22-31-000-803-001.

- (b) Do this task: ASU and LSU Oxygen Mask Packing, TASK 35-22-31-000-804-001.

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

D633A101-HAP

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35-22-31

Config 1
Page 702
Jun 15/2008



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

ALTITUDE PRESSURE SWITCH - REMOVAL/INSTALLATION

1. General

A. This procedure has these tasks:

- (1) Altitude Pressure Switch Removal
- (2) Altitude Pressure Switch Installation

TASK 35-22-41-000-801

2. Altitude Pressure Switch Removal

A. Location Zones

Zone	Area
118	Electrical and Electronics Compartment - Right

B. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

C. Remove the S813 Altitude Pressure Switch

SUBTASK 35-22-41-865-001

- (1) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

SUBTASK 35-22-41-010-001

- (2) Open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 35-22-41-020-001

- (3) Do these steps to remove the altitude pressure switch, S813 [1].

- (a) Remove the cover from the J23 junction box.
- (b) Disconnect the D2886 electrical connector [2] from the pressure switch
- (c) Remove the two screws [3] that attach the pressure switch to the J23 junction box.
 - 1) Keep the two screws. These parts are used to install the pressure switch.
- (d) Remove the altitude pressure switch, S813 [1].
- (e) Install the cover on the J23 junction box, if you will not install the S813 switch immediately.

————— **END OF TASK** —————

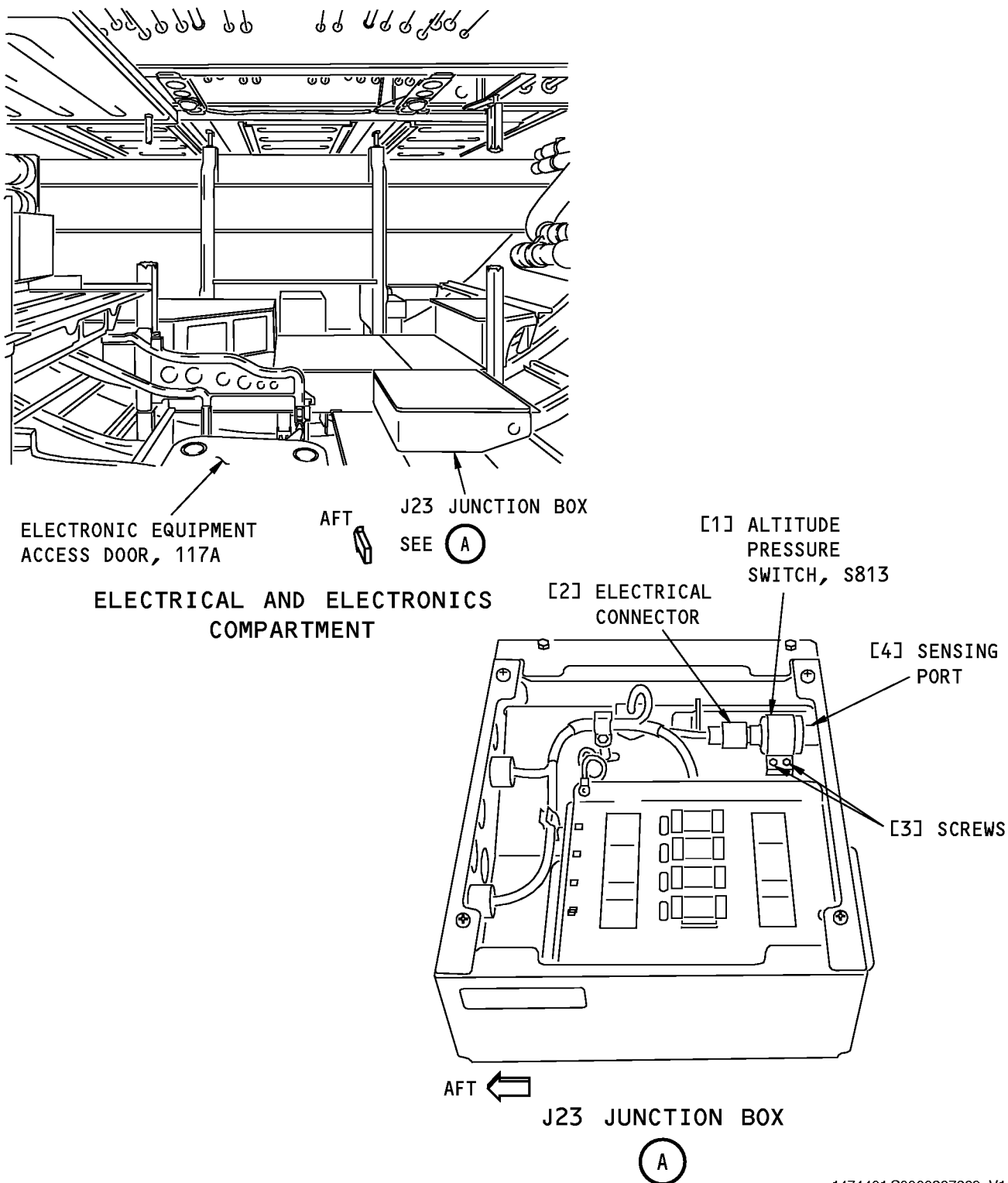
EFFECTIVITY
HAP ALL

35-22-41

Page 401
Feb 15/2008

D633A101-HAP

AIRCRAFT MAINTENANCE MANUAL



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Altitude Pressure Switch - Removal/ Installation
Figure 401/35-22-41-990-801

EFFECTIVITY
HAP ALL

35-22-41

Page 402
Feb 15/2008

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 35-22-41-400-801

3. Altitude Pressure Switch Installation

A. References

Reference	Title
20-50-11-910-801	Standard Torque Values (P/B 201)
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
35-22-00-990-801	Figure: Passenger Oxygen - Flight Compartment Panels (P/B 501)

B. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
COM-1931	Pump - Vacuum, Portable, Standard Duty (Part #: 2546B-01, Supplier: 0NCC5, A/P Effectivity: 737-ALL) (Part #: 2546C-01, Supplier: 0NCC5, A/P Effectivity: 737-ALL) (Part #: 2546C-02, Supplier: 0NCC5, A/P Effectivity: 737-ALL) (Part #: DPI610, Supplier: U0427, A/P Effectivity: 737-ALL) (Opt Part #: 2545B-01, Supplier: 0NCC5, A/P Effectivity: 737-ALL) (Opt Part #: 2545C-02, Supplier: 0NCC5, A/P Effectivity: 737-ALL)
STD-1318	Hose - Vacuum, 1/4 Inch Inside Diameter (ID) Plastic Tube (Tygon-B44-30PT, Uniflex 650 or Similar)
STD-1319	Connector - Tee, Vacuum Hose (to Attach Vacuum Gauge to Vacuum Hose)
STD-1320	Gauge - Vacuum
STD-1321	Valve - Shutoff
STD-3900	Adapter - Straight, Tube to Hose

C. Location Zones

Zone	Area
118	Electrical and Electronics Compartment - Right
212	Flight Compartment - Right

D. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

E. Procedure

SUBTASK 35-22-41-420-002

- (1) Do these steps to install the altitude pressure switch, S813 [1].
 - (a) Put the switch in its position on the J23 junction box.
 - (b) Install the two screws [3] that attach the switch to the J23 junction box. Tighten the screws (Standard Torque Values, TASK 20-50-11-910-801).
 - (c) Install the D2886 electrical connector [2] on the altitude pressure switch, S813 [1].
 - (d) Do the S813 Altitude Pressure Switch operational test.
 - (e) Install the cover on the J23 junction box.
 - (f) Restore the airplane to its usual condition.

EFFECTIVITY
HAP ALL

35-22-41

Page 403
Jun 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

F. S813 Altitude Pressure Switch Operational Test

SUBTASK 35-22-41-480-002

- (1) Do these steps to install the test equipment on the altitude pressure switch, S813 [1]. :
 - (a) Get access to the J23 BOX.
 - (b) Remove the cover to gain access to the S813 Altitude Pressure Switch.
 - (c) Locate the Altitude Pressure Switch fitting through the cutout in the forward side of the J23 junction box.
 - (d) Connect these components to the altitude pressure switch:

NOTE: The altitude pressure switch may have to be moved from its position slightly to attach the test equipment.

- 1) adapter, STD-3900
- 2) hose, STD-1318
- 3) connector, STD-1319
- 4) gauge, STD-1320
- 5) shutoff valve, STD-1321
- 6) vacuum pump, COM-1931

SUBTASK 35-22-41-861-002

- (2) Do this task: Supply Electrical Power, TASK 24-22-00-860-811.

SUBTASK 35-22-41-865-006

- (3) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	8	C00785	OXYGEN MAN CONT
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

NOTE: Make sure that these circuit breakers are open. If these circuit breakers are closed, all the oxygen box doors will open when you do the operational test. This will cause all the oxygen masks to fall from the oxygen boxes. .

SUBTASK 35-22-41-865-007

- (4) Make sure that this circuit breaker is closed:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	7	C00156	OXYGEN IND

SUBTASK 35-22-41-864-002

- (5) Slowly decrease the pressure to the altitude pressure switch until the PASS OXY ON light, on the P5-14 panel comes on (Figure 35-22-00-990-801).

SUBTASK 35-22-41-212-003

- (6) Make sure that the PASS OXY ON light comes on between 17.8 in. (452 mm) and 17.3 in. (439.4 mm) of mercury absolute (14,000 ± 350 ft (4267 ± 107 m) cabin altitude).
 - (a) Make sure the two MASTER CAUTION lights and the OVERHEAD annunciation on the master caution display come on.
 - (b) Push one of the two MASTER CAUTION lights to reset the system.

EFFECTIVITY
HAP ALL

D633A101-HAP

35-22-41

Page 404
Jun 15/2008



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (c) Make sure all of the annunciations on the master caution displays go out

SUBTASK 35-22-41-863-002

- (7) Slowly remove the vacuum to the altitude pressure switch, S813.

SUBTASK 35-22-41-080-002

- (8) Do these steps to remove the altitude simulation test equipment from the pressure switch:

- (a) Remove the test equipment.
- (b) If necessary, Install the two screws [3] that attach the altitude pressure switch, S813 [1], to the J23 BOX.
- (c) Install the cover to the J23 BOX.

SUBTASK 35-22-41-865-009

- (9) Open this circuit breaker for 1-2 seconds, then close the circuit breaker.

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	7	C00156	OXYGEN IND

NOTE: This is to reset the passenger oxygen control relay(s).

SUBTASK 35-22-41-865-008

- (10) Remove the safety tags and close these circuit breakers:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	8	C00785	OXYGEN MAN CONT
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

G. Restore the airplane to its usual condition

SUBTASK 35-22-41-410-002

- (1) Close this access panel:

<u>Number</u>	<u>Name/Location</u>
117A	Electronic Equipment Access Door

SUBTASK 35-22-41-862-002

- (2) Do this task to remove the electrical power, if it is no longer necessary.

Remove Electrical Power, TASK 24-22-00-860-812

END OF TASK

EFFECTIVITY
HAP ALL

D633A101-HAP

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35-22-41

Page 405
Feb 15/2008



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

PORTABLE OXYGEN EQUIPMENT - INSPECTION/CHECK

1. General

- A. This procedure contains scheduled maintenance task data.
- B. This procedure has these tasks:
 - (1) Portable Oxygen Cylinder Pressure and Condition Check
 - (2) Oxygen Cylinder Leak Check.
- C. The portable oxygen cylinders are installed at different locations in the passenger compartment. Do not try to adjust a unit in the field. Remove any portable oxygen cylinders that do not operate correctly. Make sure approved persons repair any damaged oxygen cylinders.

TASK 35-31-00-710-801

2. Portable Oxygen Cylinder Pressure and Condition Check

(Figure 601, Figure 602)

- A. General
 - (1) This procedure is a scheduled maintenance task.
- B. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-31-00-100-801	Clean the Portable Oxygen System Components (P/B 701)

- C. Location Zones

Zone	Area
200	Upper Half of Fuselage

- D. Preparation

SUBTASK 35-31-00-910-003

- (1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-31-00-210-001

- (2) Make sure that the oxygen cylinder hydrostatic test date complies with current regulations.

NOTE: The hydrostatic test date must be within the prescribed service life limit. The service life limit is established by national regulatory authorities the cylinder manufacturer, and/or the airline.

NOTE: The hydrostatic test date is on the neck of the oxygen cylinder

- E. Portable Oxygen Cylinder Pressure Check

SUBTASK 35-31-00-210-005

- (1) Go to each portable oxygen cylinder location.

SUBTASK 35-31-00-210-002

- (2) Make sure the portable oxygen cylinder pressure gage is not more than 1850 psi at 70°F (21°C).

NOTE: See (Figure 602) for equivalent portable oxygen cylinder pressures for temperatures other than 70°F (21°C).

EFFECTIVITY
HAP ALL

35-31-00

Page 601
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-31-00-960-001

- (3) Replace the portable oxygen cylinder, if the gage pressure is below the minimum guideline set for the airline or regulatory authority.

F. Portable Oxygen Cylinder Condition Check

SUBTASK 35-31-00-210-003

- (1) Make sure the oxygen cylinders are correctly attached to the wall-mounted brackets or containers, where applicable.

SUBTASK 35-31-00-210-004

- (2) Make sure the oxygen cylinders are in a satisfactory condition:
 - (a) Make sure the portable oxygen cylinders and the attached oxygen masks are clean.
 - 1) If you need to clean the portable oxygen cylinder or oxygen mask, do this task: Clean the Portable Oxygen System Components, TASK 35-31-00-100-801.
 - (b) Make sure the oxygen cylinders are not damaged.
 - 1) If the portable oxygen cylinder or oxygen mask is damaged, replace the cylinder or the mask.

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

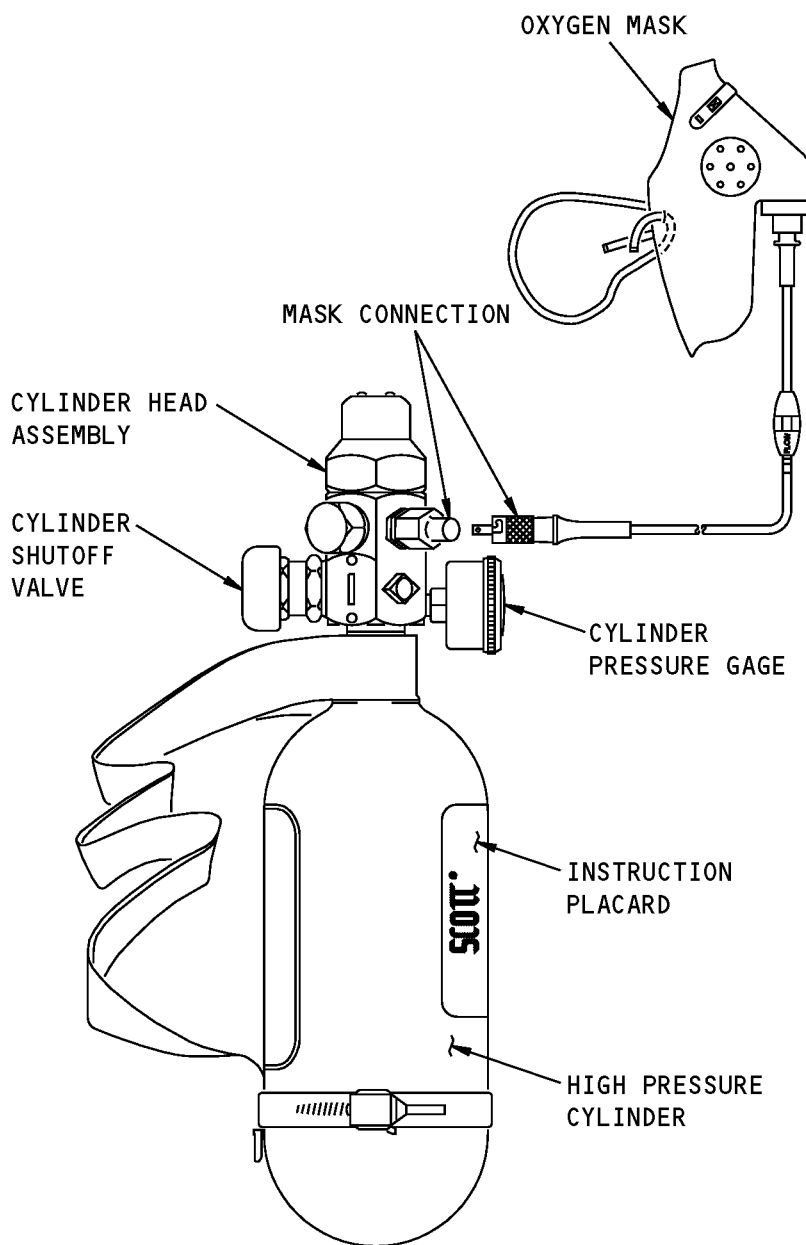
D633A101-HAP

35-31-00

Page 602
Feb 15/2009



737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL



PORTABLE OXYGEN CYLINDER
(EXAMPLE)

Portable Oxygen Inspection
Figure 601/35-31-00-990-801

EFFECTIVITY
HAP ALL

D633A101-HAP

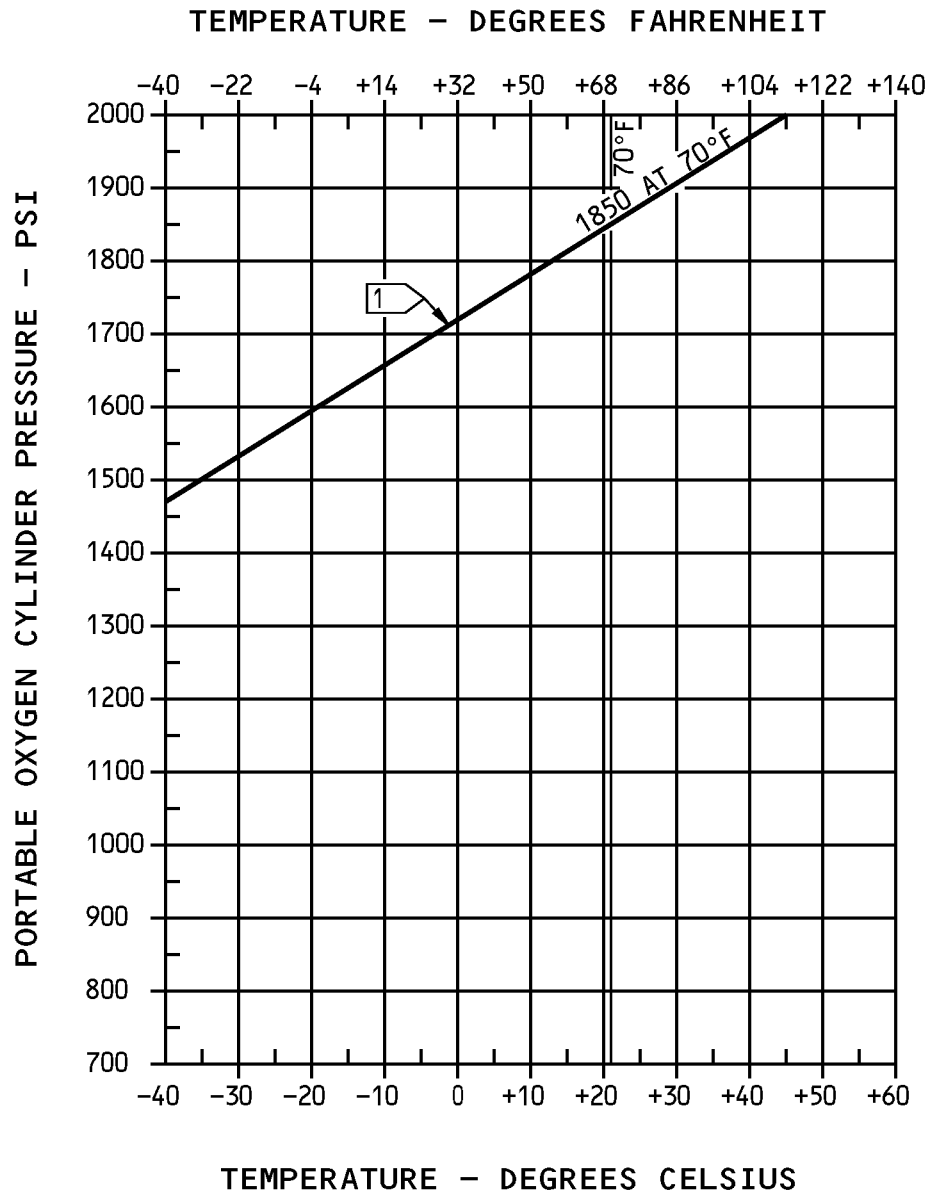
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35-31-00

Page 603
Oct 10/2003



737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL



1 MAXIMUM ALLOWABLE PRESSURE FOR FULLY SERVICED PORTABLE OXYGEN CYLINDER

Portable Oxygen Cylinder-Pressure/Temperature Correction Chart
Figure 602/35-31-00-990-802

EFFECTIVITY
HAP ALL

D633A101-HAP

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35-31-00

Page 604
Oct 10/2003



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 35-31-00-710-802

3. Portable Oxygen Cylinder Leak Check

(Figure 601)

A. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)

B. Consumable Materials

Reference	Description	Specification
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	BMS15-5
G50306	Compound - Leak Detection, Oxygen System	MIL-PRF-25567 (BAC5402)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Preparation

SUBTASK 35-31-00-910-004

- (1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

E. Portable Oxygen Cylinder Leak Check

SUBTASK 35-31-00-790-001

- (1) Turn the knob on the ON-OFF valve counterclockwise to open it.

SUBTASK 35-31-00-790-002

- (2) Do a check of the portable oxygen cylinder for leaks:
 - (a) Apply the leak detection compound, G50306 to all the fittings and connections.
 - (b) Look for bubbles to find leaks.
 - (c) Remove the leak detection compound, G50306 from the cylinder components with a cotton wiper, G00034 immediately after you do the check.
 - 1) If you find a leak do these steps:

NOTE: Do not permit the leaks to continue.

 - a) Remove the portable oxygen cylinder from the airplane.
 - b) Install a fully serviced portable oxygen cylinder.
 - 2) If there are no leaks, the portable oxygen cylinder is satisfactory.

SUBTASK 35-31-00-790-003

- (3) Turn the knob on the ON-OFF valve clockwise to close it.

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

D633A101-HAP

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35-31-00

Page 605
Feb 10/2006



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

PORTABLE OXYGEN SYSTEMS - CLEANING/PAINTING

1. General

- A. This procedure contains this task:
 - (1) Clean the Portable Oxygen System Components.
- B. When you do maintenance on the oxygen system, it is important that the work area is clean and free from contamination. If the work area is not clean, these conditions can occur:
 - (1) When contamination and an ignition source are near the oxygen, a fire or an explosion can occur.
 - (2) Contamination can inhibit the usual operation of the oxygen equipment.
 - (3) Contamination can supply dangerous fumes to the users of the oxygen equipment.
- C. Clean and use a disinfectant on the oxygen mask face pieces after each use.
- D. All oxygen system components must be clean and dry when they are installed.

TASK 35-31-00-100-801

2. Clean the Portable Oxygen System Components

A. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
SOPM 20-30-80	Solvents For General Cleaning of Metal (Series 80)

B. Consumable Materials

Reference	Description	Specification
B00541	Cleaner - General Purpose Household Detergent	
B01031	Cleaner - Disinfectant - West Wecodyne	
B01032	Cleaner - Disinfectant, Topical Gel - Airwick Antimicrobial	
B01033	Cleaner - Disinfectant - Lysol	
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	BMS15-5
G02186	Seal - Closed Cell Silicone Foam Rubber, Hydraulic Fluid Resistant	BMS1-68, Form III
G50140	Gloves - Protective, Latex or Nitrile	

C. Location Zones

Zone	Area
200	Upper Half of Fuselage
211	Flight Compartment - Left
212	Flight Compartment - Right

D. Clean the Portable Oxygen Cylinders

SUBTASK 35-31-00-910-001

- (1) To read and obey the safety precautions and general instructions before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-31-00-140-001

- (2) To remove surface contamination from the portable oxygen cylinder, do this step:

EFFECTIVITY
HAP ALL

35-31-00

Page 701
Jun 15/2008

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (a) Rub the component(s) with a clean, dry, cotton wiper, G00034.

SUBTASK 35-31-00-140-002

- (3) If you cannot remove the surface contamination with a dry cloth only, do this step:

WARNING: ONLY USE CLEANING SOLVENTS ON THE OUTSIDE OF THE OXYGEN SYSTEM COMPONENTS. DO NOT USE CLEANING SOLVENTS ON THE INSIDE OF THE OXYGEN SYSTEM COMPONENTS.

- (a) Clean the contamination with a clean cotton wiper, G00034 and an approved cleaning solvent, (SOPM 20-30-80).

SUBTASK 35-31-00-160-001

- (4) Do these steps to clean the portable oxygen cylinder subassembly component(s):

- (a) Remove the portable oxygen cylinder from the airplane.
- (b) Use the instructions in the manufacturers overhaul manual to clean the component(s).
- (c) Fully service the portable oxygen cylinder.
- (d) Install the oxygen cylinder(s) in the correct location.

E. Clean the Portable Oxygen Cylinder Masks

SUBTASK 35-31-00-910-002

- (1) Read and obey the safety precautions and general instructions before you do the maintenance (TASK 35-00-00-910-801).

SUBTASK 35-31-00-160-002

- (2) Use one of these detergent disinfectants (or equivalent) to clean the oxygen mask(s):

- (a) general purpose household detergent cleaner, B00541
- (b) West Wecodyne cleaner, B01031
- (c) Airwick Antimicrobial cleaner, B01032
- (d) Lysol cleaner, B01033

SUBTASK 35-31-00-160-003

- (3) Put on Latex or Nitrile protective gloves, G50140 before handling the mask assembly. Discard the gloves when the cleaning procedure is complete.
- (4) Mix a solution of detergent disinfectant with warm water.

NOTE: Obey the instructions on the label.

SUBTASK 35-31-00-160-004

- (5) Apply the solution to the face piece with a cotton wiper, G00034 or a seal, G02186.

SUBTASK 35-31-00-160-005

- (6) Rinse the face piece in clear, warm water.

SUBTASK 35-31-00-160-006

- (7) Completely dry the face piece with a dry cotton wiper, G00034.

SUBTASK 35-31-00-420-001

- (8) Connect and position the oxygen mask on the portable oxygen cylinder.

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

35-31-00

Page 702
Jun 15/2008

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

PORTABLE OXYGEN EQUIPMENT - REMOVAL/INSTALLATION

1. General

- A. This procedure contains scheduled maintenance task data.
- B. This procedure has this task:
 - (1) Replace Portable Oxygen Cylinder.
- C. The portable oxygen cylinders are installed at different locations in the passenger compartment. Do not try to adjust a unit in the field. Remove any portable oxygen cylinders that do not operate correctly. Make sure approved persons repair any damaged oxygen cylinders.

TASK 35-31-01-960-801

2. Replace Portable Oxygen Cylinder

(Figure 401)

A. General

- (1) This procedure is a scheduled maintenance task.

B. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Removal

SUBTASK 35-31-01-910-001

- (1) Read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance (Oxygen System General Maintenance Practices, TASK 35-00-00-910-801).

SUBTASK 35-31-01-010-001

- (2) Open the stowage compartment door, if applicable to get access to the portable oxygen cylinder [1].

SUBTASK 35-31-01-000-001

- (3) Loosen the straps that holds the portable oxygen cylinder [1] in place, if applicable.
 - (a) Remove the portable oxygen cylinder [1].

SUBTASK 35-31-01-410-001

- (4) Close the stowage compartment door, if applicable.

E. Installation

SUBTASK 35-31-01-010-002

- (1) Open the stowage compartment door, if applicable.

SUBTASK 35-31-01-400-001

- (2) Put the portable oxygen cylinder [1] in the designated stowage area and secure it in place with the applicable straps.

SUBTASK 35-31-01-410-002

- (3) Make sure that the hose and the oxygen mask is stowed correctly.

EFFECTIVITY
HAP ALL

D633A101-HAP

35-31-01

Page 401
Feb 15/2009



737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-31-01-410-003

- (4) Close the stowage compartment door, if applicable.

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

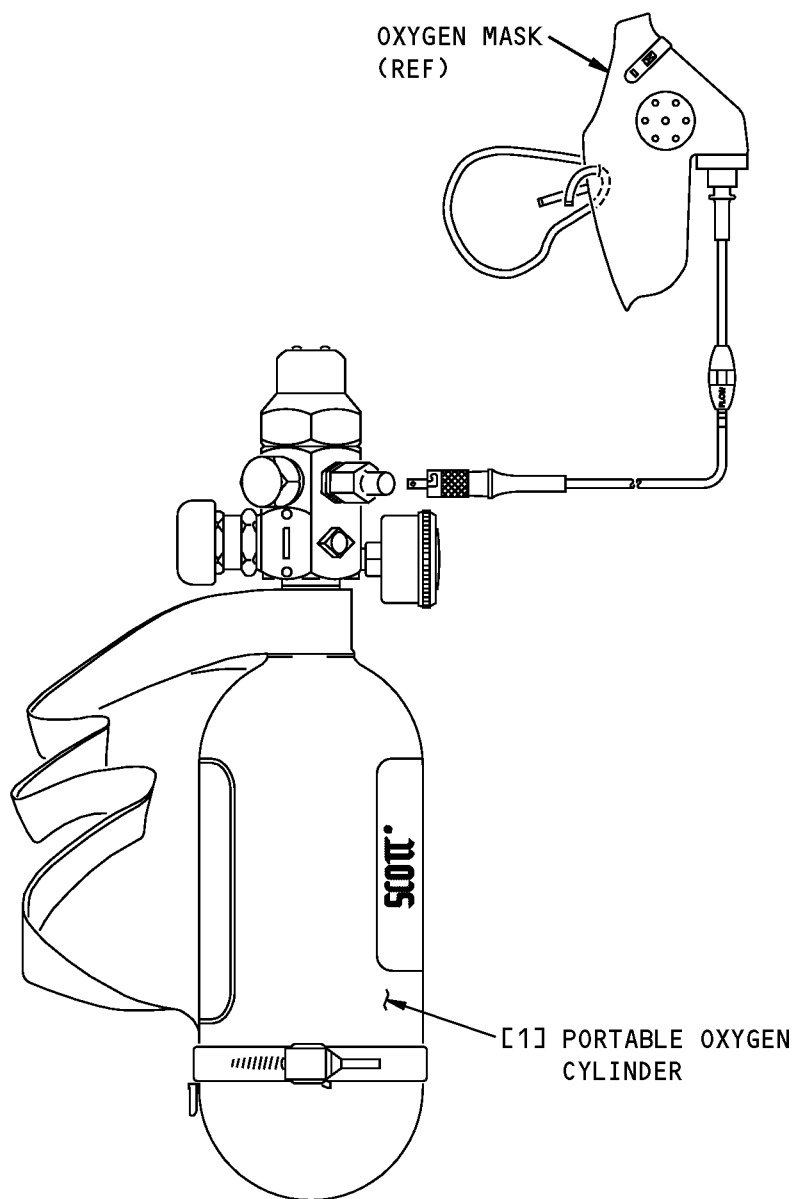
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35-31-01

Page 402
Feb 15/2009



737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL



PORTABLE OXYGEN CYLINDER
(EXAMPLE)

Portable Oxygen Equipment Installation
Figure 401/35-31-01-990-801

EFFECTIVITY
HAP ALL

D633A101-HAP

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35-31-01

Page 403
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

PORTABLE PROTECTIVE BREATHING EQUIPMENT - REMOVAL/INSTALLATION

1. General

A. This procedure has this task:

- (1) Portable Protective Breathing Equipment Removal.
- (2) Portable Protective Breathing Equipment Installation.

HAP 001-013, 015-026, 028-030, 050

B. The portable protective breathing equipment consist of a smoke hood and protective box. It is installed in the flight compartment, mounted onto a bracket which is attached to the second observer's seat posts.

HAP 031-036, 048, 053

C. The portable protective breathing equipment consists of a smoke-hood and protective box. It is installed in the flight compartment, mounted onto a bracket, which is attached top the left aft bulkhead of the flight compartment.

HAP 001-013, 015-026, 028-036, 048, 050, 053

D. The portable protective breathing equipment consists of a smoke-hood and its protective box. The PBE is installed in various locations in the flight and passenger compartments. Refer to the airplane's Layout of Passenger Accommodations (LOPA's), to find the quantity and specific location of the PBE boxes.

TASK 35-31-02-000-801

2. Portable Protective Breathing Equipment Removal

(Figure 401)

A. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)

B. Location Zones

Zone	Area
211	Flight Compartment - Left

C. Remove the Portable Protective Breathing Equipment

SUBTASK 35-31-02-910-001

- (1) Read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance (Oxygen System General Maintenance Practices, TASK 35-00-00-910-801).

SUBTASK 35-31-02-010-005

- (2) Go into the flight compartment to get access to the portable protective breathing equipment [1] .

HAP 001-013, 015-026, 028-030, 050

NOTE: The portable protective breathing equipment is stored below the second observer's seat.

HAP 031-036, 048, 053

NOTE: The portable protective breathing equipment is stored on the left aft bulkhead of the flight compartment.

EFFECTIVITY

HAP 001-013, 015-026, 028-036, 048, 050, 053

35-31-02

Page 401
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

HAP 031-036, 048, 053 (Continued)

HAP 031-036, 048, 050, 053

NOTE: Additional portable protective breathing equipment is stored under the attendant seats.

HAP 001-013, 015-026, 028-036, 048, 050, 053

SUBTASK 35-31-02-010-008

- (3) Go into the passenger compartment to get access to the portable protective breathing equipment (PBE). Refer to the airplane's Layout of Passenger Accommodations (LOPA's), to find the quantity and specific location of the PBE boxes

SUBTASK 35-31-02-000-001

- (4) Remove the PBE box from it's storage mounting bracket or compartment.
(a) As necessary, remove the smoke-hood from the protective box.

SUBTASK 35-31-02-010-006

HAP 001-013, 015-026, 028-030, 050

- (5) Remove the fasteners that attach the protective box to the second observer's seat.

HAP 031-036, 048, 053

- (6) Remove the fasteners that attach the protective box to the left aft bulkhead of the flight compartment.

HAP 001-013, 015-026, 028-036, 048, 050, 053

————— END OF TASK —————

EFFECTIVITY

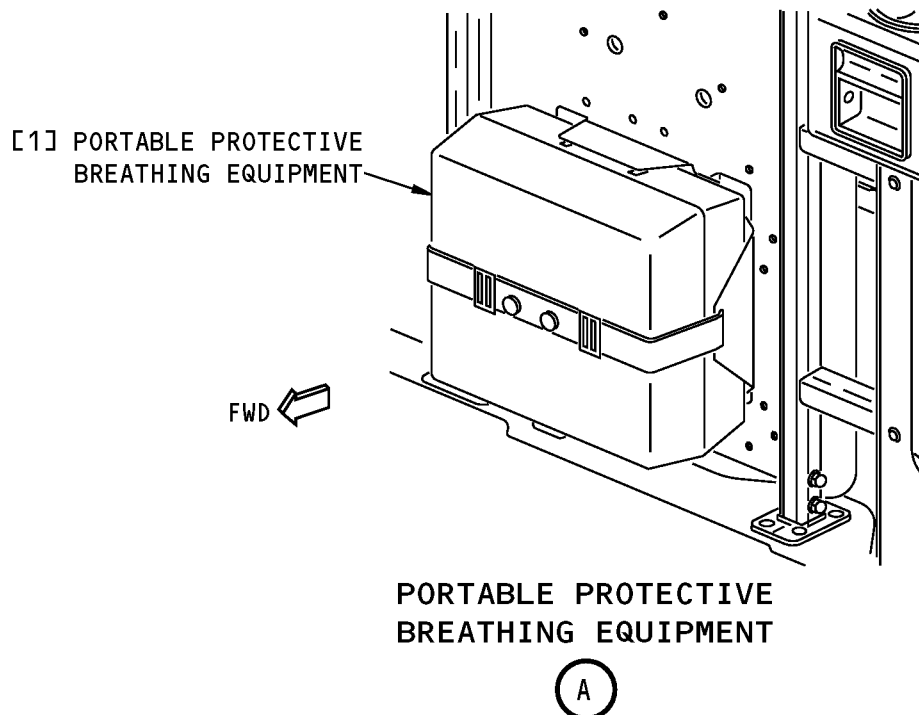
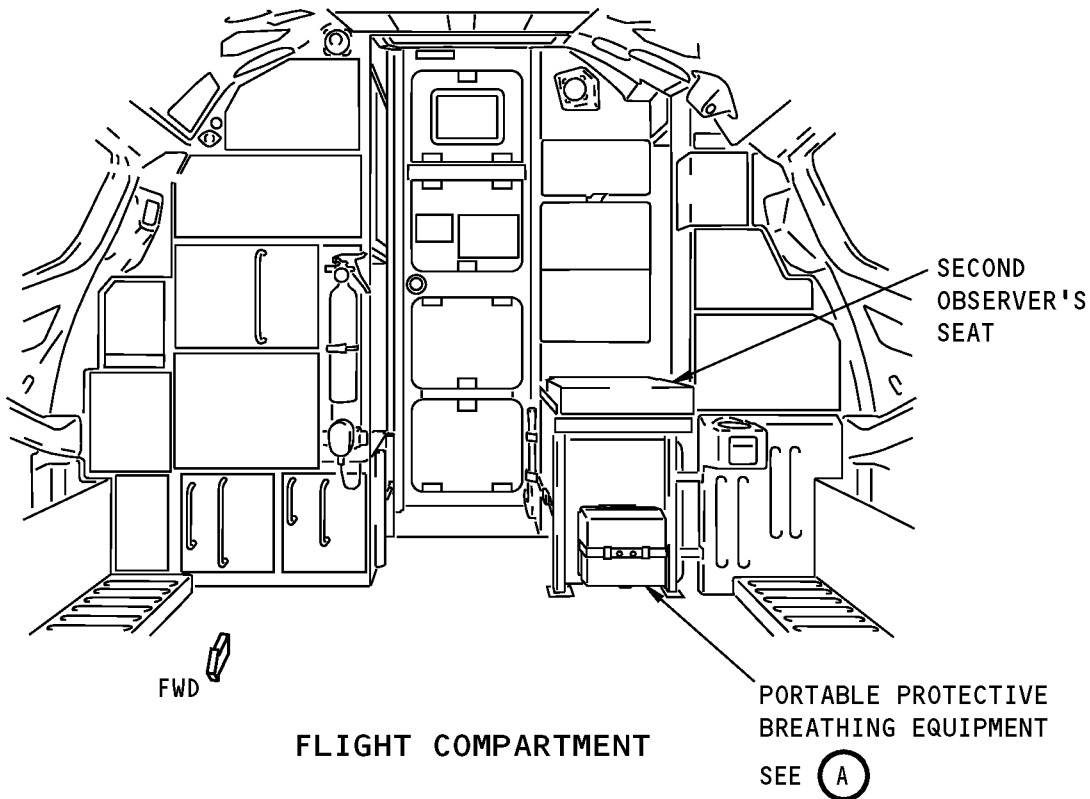
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D633A101-HAP

35-31-02

Page 402
Feb 15/2009

AIRCRAFT MAINTENANCE MANUAL



Portable Protective Breathing Equipment Installation
Figure 401 (Sheet 1 of 3)/35-31-02-990-801

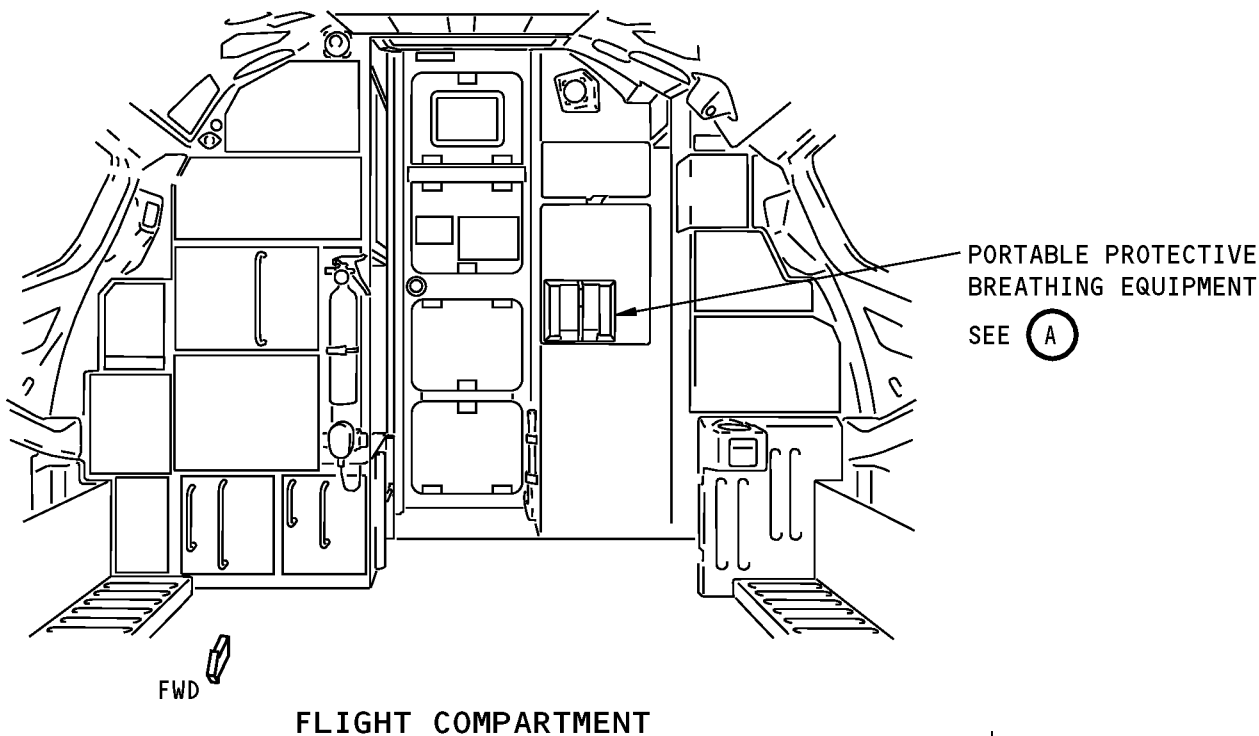
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HAP 001-013, 015-026, 028-030, 050

35-31-02

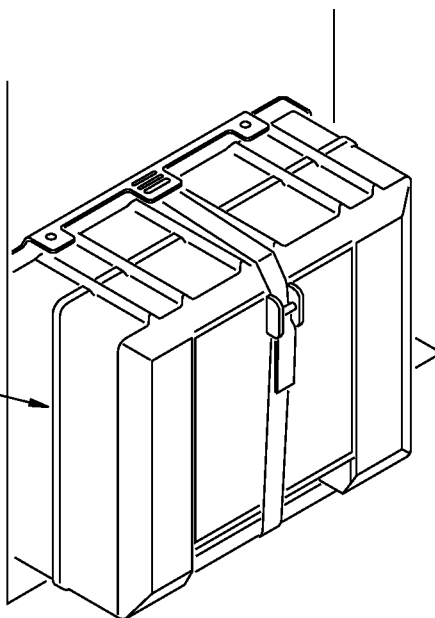
Page 403
 Feb 15/2009

D633A101-HAP

AIRCRAFT MAINTENANCE MANUAL



[1] PORTABLE PROTECTIVE BREATHING EQUIPMENT



PORTABLE PROTECTIVE BREATHING EQUIPMENT

(A)

Portable Protective Breathing Equipment Installation
Figure 401 (Sheet 2 of 3)/35-31-02-990-801

EFFECTIVITY
HAP 031-036, 048, 053

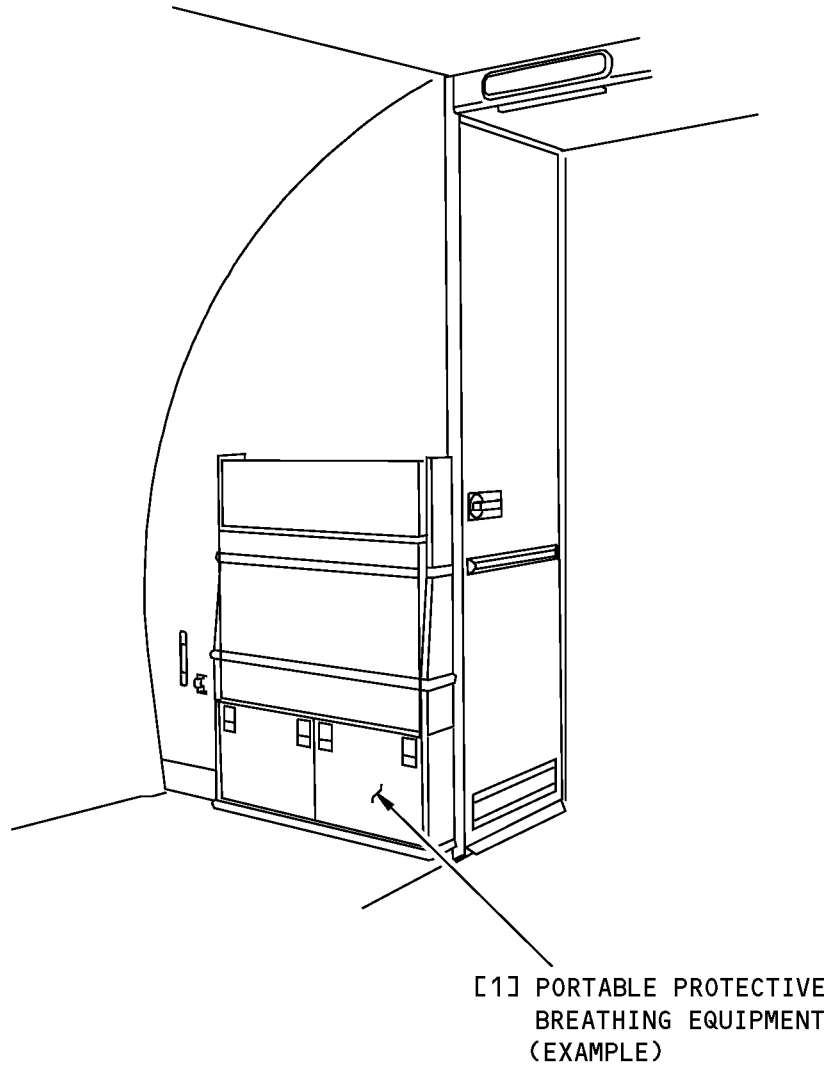
35-31-02

Page 404
Feb 15/2009

D633A101-HAP



737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL



Portable Protective Breathing Equipment Installation
Figure 401 (Sheet 3 of 3)/35-31-02-990-801

EFFECTIVITY
HAP 031-036, 048, 050, 053

D633A101-HAP

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35-31-02

Page 405
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 35-31-02-400-801

3. Portable Protective Breathing Equipment Installation

(Figure 401)

A. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)

B. Location Zones

Zone	Area
211	Flight Compartment - Left

C. Install the Portable Protective Breathing Equipment (PBE)

SUBTASK 35-31-02-910-002

- (1) Read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance (Oxygen System General Maintenance Practices, TASK 35-00-00-910-801).

SUBTASK 35-31-02-010-007

HAP 001-013, 015-026, 028-030, 050

- (2) As necessary, install the fasteners that attach the PBE box mounting bracket to the second observer's seat post.
 - (a) Install the PBE box in it's mounting bracket.

HAP 031-036, 048, 053

- (3) As necessary, install the fasteners that attach the PBE box mounting bracket to the left aft bulkhead of the flight compartment.
 - (a) Install the PBE box in it's mounting bracket. ,

HAP 001-013, 015-026, 028-036, 048, 050, 053

SUBTASK 35-31-02-400-001

- (4) To install the passenger compartment PBE's, refer to the airplane's Layout of Passenger Accommodations (LOPA's) to find the quantity and specific location of the PBE boxes. Install the PBE box in it's mounting bracket, or storage compartment, as applicable.

SUBTASK 35-31-02-410-002

- (5) Apply a tamper seal as necessary.

————— **END OF TASK** —————

EFFECTIVITY

HAP 001-013, 015-026, 028-036, 048, 050, 053

D633A101-HAP

35-31-02

Page 406
Feb 15/2009