

CHAPTER

35

OXYGEN



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

CHAPTER 35
OXYGEN

Subject/Page	Date	COC	Subject/Page	Date	COC	Subject/Page	Date	COC
35-EFFECTIVE PAGES			35-00-00 (cont)			35-12-00 (cont)		
1 thru 3	Sep 15/2023		704	BLANK		514	BLANK	
4	BLANK		35-00-00			35-12-00		
35-CONTENTS			901	May 15/2022		R 601	Sep 15/2023	
1	May 15/2022		902	May 15/2022		R 602	Sep 15/2023	
2	May 15/2022		903	May 15/2022		R 603	Sep 15/2023	
3	May 15/2022		904	May 15/2022		R 604	Sep 15/2023	
4	May 15/2022		905	May 15/2022		605	Sep 15/2021	
5	May 15/2022		906	May 15/2022		606	Sep 15/2022	
6	May 15/2022		35-12-00			607	Jan 15/2022	
7	May 15/2022		R 201	Sep 15/2023		608	Jan 15/2022	
8	BLANK		R 202	Sep 15/2023		609	Jan 15/2022	
35-00-00			R 203	Sep 15/2023		610	Jan 15/2022	
201	Sep 15/2022		204	Sep 15/2021		R 611	Sep 15/2023	
202	Jan 15/2022		205	Sep 15/2021		612	Sep 15/2021	
203	Sep 15/2021		R 206	Sep 15/2023		613	Sep 15/2021	
204	Sep 15/2021		R 207	Sep 15/2023		614	Sep 15/2021	
205	Sep 15/2021		R 208	Sep 15/2023		615	Sep 15/2021	
206	Sep 15/2022		R 209	Sep 15/2023		R 616	Sep 15/2023	
207	Jan 15/2022		R 210	Sep 15/2023		R 617	Sep 15/2023	
208	Jan 15/2022		R 211	Sep 15/2023		618	BLANK	
209	Sep 15/2021		212	Sep 15/2021		35-12-11		
210	Sep 15/2021		213	Sep 15/2021		401	Sep 15/2021	
211	Sep 15/2021		214	BLANK		402	Sep 15/2021	
212	Sep 15/2021		35-12-00			R 403	Sep 15/2023	
213	Sep 15/2021		501	Sep 15/2021		404	Sep 15/2021	
214	Sep 15/2021		502	Sep 15/2021		405	Sep 15/2021	
215	Sep 15/2021		503	Sep 15/2021		406	Sep 15/2021	
216	Sep 15/2021		504	Sep 15/2021		407	Sep 15/2021	
217	Sep 15/2021		505	Sep 15/2021		408	Sep 15/2021	
218	BLANK		506	Sep 15/2021		409	Sep 15/2021	
35-00-00			507	Sep 15/2021		410	Sep 15/2021	
301	Sep 15/2021		508	Sep 15/2021		411	Sep 15/2021	
302	Sep 15/2021		509	Sep 15/2021		412	Sep 15/2021	
35-00-00			510	Jan 15/2023		413	Sep 15/2021	
701	Sep 15/2022		R 511	Sep 15/2023		414	Sep 15/2021	
702	Jan 15/2022		512	Sep 15/2021				
703	Jan 15/2022		513	Sep 15/2021				

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

35-EFFECTIVE PAGES



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

CHAPTER 35
OXYGEN

Subject/Page	Date	COC	Subject/Page	Date	COC	Subject/Page	Date	COC
35-12-21			35-12-85 (cont)			35-22-11 (cont)		
401	Sep 15/2021		414	BLANK		204	Sep 15/2022	
402	Sep 15/2021		35-12-85			205	Sep 15/2021	
R 403	Sep 15/2023		701	Jan 15/2023		206	Sep 15/2021	
404	Sep 15/2021		702	Jan 15/2022		207	Sep 15/2022	
405	Sep 15/2021		703	Jan 15/2022		208	Sep 15/2022	
406	Sep 15/2021		704	Jan 15/2022		209	Sep 15/2022	
35-12-22			705	Jan 15/2022		210	Jan 15/2023	
401	Sep 15/2021		706	Sep 15/2021		211	Sep 15/2021	
402	Sep 15/2021		35-22-00			212	BLANK	
403	Sep 15/2022		501	Sep 15/2021		35-22-11		
404	BLANK		R 502	Sep 15/2023		401	Sep 15/2021	
35-12-51			R 503	Sep 15/2023		402	Sep 15/2021	
401	Sep 15/2021		504	Jan 15/2023		403	Sep 15/2021	
402	Sep 15/2021		505	Jan 15/2023		404	Sep 15/2021	
403	Sep 15/2021		R 506	Sep 15/2023		405	Sep 15/2021	
404	Sep 15/2021		O 507	Sep 15/2023		406	Sep 15/2021	
35-12-85			508	Sep 15/2021		407	Jan 15/2023	
201	Sep 15/2021		509	Sep 15/2021		408	Jan 15/2023	
202	Sep 15/2021		510	Sep 15/2021		R 409	Sep 15/2023	
203	Sep 15/2021		511	Sep 15/2021		R 410	Sep 15/2023	
204	Sep 15/2021		512	Sep 15/2021		R 411	Sep 15/2023	
205	Sep 15/2021		513	Sep 15/2021		R 412	Sep 15/2023	
206	Sep 15/2021		514	Sep 15/2021		R 413	Sep 15/2023	
35-12-85			515	Sep 15/2021		414	BLANK	
401	May 15/2022		516	Jan 15/2023		35-22-21		
402	Jan 15/2023		517	Jan 15/2023		401	Sep 15/2021	
403	Sep 15/2021		518	Jan 15/2023		402	Sep 15/2021	
404	Sep 15/2021		519	Jan 15/2023		403	Sep 15/2021	
405	Sep 15/2022		520	Jan 15/2023		404	Sep 15/2021	
406	Jan 15/2023		R 521	Sep 15/2023		405	Jan 15/2022	
407	Sep 15/2022		O 522	Sep 15/2023		406	Sep 15/2021	
408	Sep 15/2022		O 523	Sep 15/2023		407	Sep 15/2021	
409	Jan 15/2022		524	Sep 15/2021		408	Sep 15/2021	
410	Jan 15/2022		35-22-11			409	Sep 15/2021	
411	Sep 15/2021		201	Jan 15/2023		410	Sep 15/2021	
412	Jan 15/2022		202	Sep 15/2022		411	Sep 15/2021	
413	Jan 15/2022		203	Jan 15/2023		412	BLANK	

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

35-EFFECTIVE PAGES



**737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL**

**CHAPTER 35
OXYGEN**

Subject/Page	Date	COC	Subject/Page	Date	COC	Subject/Page	Date	COC
35-22-31			35-22-31			35-22-51 (cont)		
201	Sep 15/2022		401	Sep 15/2021		205	Sep 15/2021	
202	Sep 15/2022		402	Sep 15/2021		206	BLANK	
203	Sep 15/2021		403	Sep 15/2021		35-22-51		
204	Sep 15/2021		404	Sep 15/2021		401	Sep 15/2021	
205	Sep 15/2021		405	Sep 15/2021		402	Sep 15/2021	
206	Sep 15/2021		406	Jan 15/2022		403	Sep 15/2021	
207	Sep 15/2021		407	Sep 15/2021		404	Sep 15/2021	
208	Sep 15/2021		408	Sep 15/2021		405	May 15/2022	
209	Sep 15/2021		409	Sep 15/2021		406	Sep 15/2021	
210	Sep 15/2021		410	Sep 15/2021		35-31-00		
211	Sep 15/2021		411	Sep 15/2021		701	Sep 15/2022	
212	Sep 15/2021		412	Sep 15/2021		702	Sep 15/2021	
213	Sep 15/2021		413	Sep 15/2021		703	Sep 15/2021	
214	Sep 15/2021		414	Sep 15/2021		704	BLANK	
215	Sep 15/2021		415	Sep 15/2021		35-31-01		
216	Sep 15/2021		416	Sep 15/2021		401	Sep 15/2021	
217	Sep 15/2021		417	Sep 15/2021		R 402	Sep 15/2023	
218	Sep 15/2021		418	Sep 15/2022		403	Sep 15/2021	
219	Sep 15/2021		419	Sep 15/2021		404	BLANK	
220	Sep 15/2021		420	BLANK		35-31-01		
221	Sep 15/2021		35-22-31			R 601	Sep 15/2023	
222	Sep 15/2021		R 701	Sep 15/2023		O 602	Sep 15/2023	
223	Sep 15/2022		702	Sep 15/2022		603	Sep 15/2021	
224	Sep 15/2022		703	Jan 15/2022		604	Jan 15/2023	
225	Sep 15/2022		704	BLANK		605	Sep 15/2022	
226	Sep 15/2022		35-22-41			606	BLANK	
227	Sep 15/2022		401	Sep 15/2021		35-31-02		
228	Sep 15/2022		402	Sep 15/2021		401	Sep 15/2021	
229	Sep 15/2022		R 403	Sep 15/2023		402	Sep 15/2021	
230	Sep 15/2022		404	May 15/2023				
R 231	Sep 15/2023		R 405	Sep 15/2023				
232	May 15/2023		O 406	Sep 15/2023				
R 233	Sep 15/2023		35-22-51					
234	BLANK		201	Sep 15/2021				
			202	Sep 15/2021				
			203	Sep 15/2021				
			204	Sep 15/2021				

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

35-EFFECTIVE PAGES



737-7/8/8200/9/10
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	SIA ALL
Oxygen System General Maintenance Practices TASK 35-00-00-910-801			201	SIA ALL
Safety Precautions TASK 35-00-00-910-802			201	SIA ALL
Maintenance Practices TASK 35-00-00-910-803			204	SIA ALL
Leak Detection TASK 35-00-00-790-801			206	SIA ALL
Installation of Caps on Open Oxygen Lines TASK 35-00-00-420-801			209	SIA ALL
Oxygen Tubing Replacement TASK 35-00-00-910-804			211	SIA ALL
<u>OXYGEN - SERVICING</u>	35-00-00		301	SIA ALL
Servicing of the Crew Oxygen System TASK 35-00-00-600-801			301	SIA ALL
Servicing of the Passenger Oxygen System TASK 35-00-00-600-802			301	SIA ALL
Portable Oxygen System Servicing TASK 35-00-00-600-803			302	SIA ALL
<u>OXYGEN - CLEANING/PAINTING</u>	35-00-00		701	SIA ALL
Clean the Oxygen System Components TASK 35-00-00-100-801			701	SIA ALL
<u>OXYGEN - DDG MAINTENANCE PROCEDURES</u>	35-00-00		901	SIA ALL
DDG 35-11-01-01 Preparation - Flight Deck Crew Oxygen Pressure Indicator Inoperative TASK 35-00-00-040-804			901	SIA ALL
DDG 35-11-01-01 Restoration - Flight Deck Crew Oxygen Pressure Indicator Inoperative TASK 35-00-00-440-802			902	SIA ALL
DDG 35-21-02 Preparation - Passenger, Attendant, and Lavatory Oxygen Service Units Inoperative TASK 35-00-00-040-801			902	SIA ALL

35-CONTENTS



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

CHAPTER 35
OXYGEN

<u>SUBJECT</u>	<u>CHAPTER SECTION SUBJECT</u>	<u>CONF</u>	<u>PAGE</u>	<u>EFFECT</u>
DDG 35-21-02 Restoration - Passenger, Attendant, and Lavatory Service Units Inoperative TASK 35-00-00-440-804			903	SIA ALL
DDG 35-21-02-01 Preparation - Passenger, Attendant, and Lavatory Oxygen Service Units Automatic Presentation Inoperative TASK 35-00-00-040-802			903	SIA ALL
DDG 35-21-02-02 Preparation - Passenger, Lavatory and Attendant Service Units Door Latches Inoperative TASK 35-00-00-040-803			904	SIA ALL
DDG 35-21-02-02 Restoration - Passenger, Lavatory and Attendant Service Units Door Latches Inoperative TASK 35-00-00-440-806			905	SIA ALL
DDG 35-31-01 Preparation - Portable Oxygen Dispensing Units (Bottle and Mask) Inoperative TASK 35-00-00-040-806			905	SIA ALL
DDG 35-31-01 Restoration - Portable Oxygen Dispensing Units (Bottle and Mask) Inoperative TASK 35-00-00-440-808			905	SIA ALL
<u>CREW OXYGEN SYSTEM - MAINTENANCE PRACTICES</u>	35-12-00		201	SIA ALL
Bleed the Crew Oxygen System Prior to System Maintenance or Repair TASK 35-12-00-800-801			201	SIA ALL
Leak Test the Crew Oxygen System After System Maintenance or Repair TASK 35-12-00-800-802			206	SIA ALL
Crew Oxygen System - Deactivation TASK 35-12-00-040-801			210	SIA ALL
Crew Oxygen System - Activation TASK 35-12-00-440-801			213	SIA ALL
<u>CREW OXYGEN SYSTEM - ADJUSTMENT/TEST</u>	35-12-00		501	SIA ALL
Crew Oxygen Stowage Box Test (Mask Stowed in Stowage Box) TASK 35-12-00-700-801			501	SIA ALL

35-CONTENTS



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

CHAPTER 35
OXYGEN

<u>SUBJECT</u>	<u>CHAPTER SECTION SUBJECT</u>	<u>CONF</u>	<u>PAGE</u>	<u>EFFECT</u>
Crew Oxygen Mask-Regulator Test TASK 35-12-00-700-802			508	SIA ALL
Crew Oxygen Pressure Indication Visual Check TASK 35-12-00-710-801			509	SIA ALL
<u>CREW OXYGEN SYSTEM - INSPECTION/CHECK</u>	35-12-00		601	SIA ALL
Crew Oxygen Operational Leak Check TASK 35-12-00-800-803			601	SIA ALL
Crew Oxygen System Pressure Decay Leak Check TASK 35-12-00-710-802			606	SIA ALL
Crew Oxygen Cylinder Correct Installation and Condition Check TASK 35-12-00-211-801			616	SIA ALL
<u>PRESSURE REDUCING REGULATOR - REMOVAL/INSTALLATION</u>	35-12-11		401	SIA ALL
Regulator/Transducer Assembly Removal TASK 35-12-11-000-801			401	SIA ALL
Regulator/Transducer Assembly Installation TASK 35-12-11-400-801			406	SIA ALL
Regulator/Transducer Assembly Component Removal TASK 35-12-11-000-802			407	SIA ALL
Regulator/Transducer Assembly Component Installation TASK 35-12-11-400-802			410	SIA ALL
<u>PRESSURE TRANSDUCER - REMOVAL/INSTALLATION</u>	35-12-21		401	SIA ALL
Pressure Transducer Removal TASK 35-12-21-000-801			401	SIA ALL
Pressure Transducer Installation TASK 35-12-21-400-801			405	SIA ALL
<u>CREW OXYGEN PRESSURE INDICATOR - REMOVAL/INSTALLATION</u>	35-12-22		401	SIA ALL
Crew Oxygen Pressure Indicator Removal TASK 35-12-22-020-801			401	SIA ALL

35-CONTENTS



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

CHAPTER 35
OXYGEN

<u>SUBJECT</u>	<u>CHAPTER SECTION SUBJECT</u>	<u>CONF</u>	<u>PAGE</u>	<u>EFFECT</u>
Crew Oxygen Pressure Indicator Installation TASK 35-12-22-400-801			403	SIA ALL
<u>DISCHARGE INDICATOR DISC - REMOVAL/INSTALLATION</u>	35-12-51		401	SIA ALL
Discharge Indicator Disk Removal TASK 35-12-51-000-801			401	SIA ALL
Discharge Indicator Disk Installation TASK 35-12-51-400-801			404	SIA ALL
<u>CREW OXYGEN MASK/STOWAGE BOX - MAINTENANCE PRACTICES</u>	35-12-85		201	SIA ALL
Crew Oxygen Mask Stowage TASK 35-12-85-910-801			201	SIA ALL
<u>CREW OXYGEN MASK/STOWAGE BOX - REMOVAL/INSTALLATION</u>	35-12-85		401	SIA ALL
Oxygen Mask Stowage Box Removal TASK 35-12-85-000-801			401	SIA ALL
Oxygen Mask Stowage Box Installation TASK 35-12-85-400-801			405	SIA ALL
Oxygen Mask/Regulator Removal TASK 35-12-85-000-802			407	SIA ALL
Oxygen Mask/Regulator Installation TASK 35-12-85-400-802			412	SIA ALL
<u>CREW OXYGEN MASK CLEANING</u>	35-12-85		701	SIA ALL
Crew Oxygen Mask Cleaning TASK 35-12-85-100-801			701	SIA ALL
<u>PASSENGER OXYGEN SYSTEM - ADJUSTMENT/TEST</u>	35-22-00		501	SIA ALL
Passenger Oxygen System Automatic Actuation Functional Test TASK 35-22-00-700-801			501	SIA ALL
Passenger Oxygen System Manual Deploy Operational Test TASK 35-22-00-700-802			516	SIA ALL
Oxygen Generator Visual Inspection TASK 35-22-00-210-801			520	SIA ALL

35-CONTENTS



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

CHAPTER 35
OXYGEN

<u>SUBJECT</u>	<u>CHAPTER SECTION SUBJECT</u>	<u>CONF</u>	<u>PAGE</u>	<u>EFFECT</u>
Oxygen Cylinder (CDS) Visual Inspection TASK 35-22-00-210-802			522	SIA ALL
<u>OXYGEN GENERATOR - MAINTENANCE PRACTICES</u>	35-22-11		201	SIA ALL
Oxygen Generator Deactivation TASK 35-22-11-000-801			201	SIA ALL
Oxygen Generator Activation TASK 35-22-11-400-801			208	SIA ALL
<u>OXYGEN GENERATOR - REMOVAL/INSTALLATION</u>	35-22-11		401	SIA ALL
PSU Oxygen Generator Removal TASK 35-22-11-000-802			401	SIA ALL
PSU Oxygen Generator Installation TASK 35-22-11-400-802			407	SIA ALL
ASU Oxygen Generator Removal TASK 35-22-11-000-803			408	SIA ALL
ASU Oxygen Generator Installation TASK 35-22-11-400-803			412	SIA ALL
<u>OXYGEN MASK DOOR LATCH ACTUATOR - REMOVAL/INSTALLATION</u>	35-22-21		401	SIA ALL
PSU Door Latch Actuator Removal TASK 35-22-21-000-801			401	SIA ALL
PSU Door Latch Actuator Installation TASK 35-22-21-400-801			405	SIA ALL
ASU Door Latch Actuator Removal TASK 35-22-21-000-802			407	SIA ALL
ASU Door Latch Actuator Installation TASK 35-22-21-400-802			410	SIA ALL
<u>PASSENGER OXYGEN MASK - MAINTENANCE PRACTICES</u>	35-22-31		201	SIA ALL
PSU Oxygen Mask Packing TASK 35-22-31-440-801			201	SIA ALL
ASU Oxygen Mask Packing TASK 35-22-31-420-801			212	SIA ALL
LSU Oxygen Mask Packing TASK 35-22-31-420-802			223	SIA ALL

35-CONTENTS



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

CHAPTER 35
OXYGEN

<u>SUBJECT</u>	<u>CHAPTER SECTION SUBJECT</u>	<u>CONF</u>	<u>PAGE</u>	<u>EFFECT</u>
Detailed Inspection of the Oxygen Mask TASK 35-22-31-210-801			231	SIA ALL
<u>PASSENGER OXYGEN MASK - REMOVAL/INSTALLATION</u>	35-22-31		401	SIA ALL
PSU Oxygen Mask Removal TASK 35-22-31-000-801			401	SIA ALL
PSU Oxygen Mask Installation TASK 35-22-31-400-801			406	SIA ALL
ASU Oxygen Mask Removal TASK 35-22-31-000-802			407	SIA ALL
ASU Oxygen Mask Installation TASK 35-22-31-400-802			413	SIA ALL
LSU Oxygen Mask Removal TASK 35-22-31-000-803			414	SIA ALL
LSU Oxygen Mask Installation TASK 35-22-31-400-803			418	SIA ALL
<u>PASSENGER OXYGEN MASK - CLEANING</u>	35-22-31		701	SIA ALL
Oxygen Mask Assembly Cleaning TASK 35-22-31-100-801			701	SIA ALL
<u>ALTITUDE PRESSURE SWITCH - REMOVAL/INSTALLATION</u>	35-22-41		401	SIA ALL
Altitude Pressure Switch - Removal (S813) TASK 35-22-41-000-801			401	SIA ALL
Altitude Pressure Switch - Installation (S813) TASK 35-22-41-400-801			403	SIA ALL
<u>OXYGEN CYLINDER (CDS) - MAINTENANCE PRACTICES</u>	35-22-51		201	SIA ALL
Oxygen Cylinder (CDS) Deactivation TASK 35-22-51-040-801			201	SIA ALL
Oxygen Cylinder (CDS) Activation TASK 35-22-51-440-801			204	SIA ALL
<u>OXYGEN CYLINDER (CDS) - REMOVAL/INSTALLATION</u>	35-22-51		401	SIA ALL
LSU Oxygen Cylinder (CDS) Removal TASK 35-22-51-000-801			401	SIA ALL

35-CONTENTS



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

CHAPTER 35
OXYGEN

<u>SUBJECT</u>	<u>CHAPTER SECTION SUBJECT</u>	<u>CONF</u>	<u>PAGE</u>	<u>EFFECT</u>
LSU Oxygen Cylinder (CDS) Installation TASK 35-22-51-400-801			405	SIA ALL
<u>PORTABLE OXYGEN SYSTEMS - CLEANING</u>	35-31-00		701	SIA ALL
Clean the Portable Oxygen System Components TASK 35-31-00-100-801			701	SIA ALL
<u>PORTABLE OXYGEN CYLINDER - REMOVAL/INSTALLATION</u>	35-31-01		401	SIA ALL
Replace Portable Oxygen Cylinder TASK 35-31-01-960-801			401	SIA ALL
<u>PORTABLE OXYGEN CYLINDER - INSPECTION/CHECK</u>	35-31-01		601	SIA ALL
Portable Oxygen Cylinder Pressure and Condition Inspection TASK 35-31-01-710-801			601	SIA ALL
Portable Oxygen Cylinder Leak Check TASK 35-31-01-710-802			605	SIA ALL
<u>PORTABLE PROTECTIVE BREATHING EQUIPMENT BOX - REMOVAL/INSTALLATION</u>	35-31-02		401	SIA ALL
Portable Protective Breathing Equipment Box Removal TASK 35-31-02-000-801			401	SIA ALL
Portable Protective Breathing Equipment Box Installation TASK 35-31-02-400-801			401	SIA ALL

35-CONTENTS



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

OXYGEN - MAINTENANCE PRACTICES

1. General

- A. This procedure contains the general maintenance practices for oxygen system maintenance.
- B. This procedure contains these tasks:
 - (1) Oxygen System General Maintenance Practices
 - (2) Safety Precautions
 - (3) Maintenance Practices
 - (4) Leak Detection
 - (5) Installation of Caps on Open Oxygen Lines
 - (6) Oxygen Tubing Replacement.

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 35-00-00-910-001

- (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 Replacement (Oxygen Tubing Replacement, 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)	AMS3819 Class 1 Grade A or B Form 1 (Supersede BMS15-5 CLA)
G01306	Gloves - Lint-free	
G50140	Gloves - Protective, Latex or Nitrile	

EFFECTIVITY
SIA ALL

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ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-00-00

Page 201
Sep 15/2022



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

(Continued)

Reference	Description	Specification
G50306	Compound - Leak Detection, Oxygen System	MIL-PRF-25567 (BAC5402)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Safety Precautions

SUBTASK 35-00-00-910-002

- (1) Make sure that 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.

SUBTASK 35-00-00-860-001

- (2) Make sure that the airplane is electrically grounded, if not, do this task: Static Grounding, TASK 20-40-11-910-801.

SUBTASK 35-00-00-610-001



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 that 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 that 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 that your hands, clothing, equipment, and tools are clean and free of petroleum products.
 - (g) Use white protective gloves, G50140, or lint-free gloves, G01306, to do the work on the oxygen system.
NOTE: Only use protective gloves, G50140, to clean the oxygen system and lint-free gloves, G01306, for general maintenance of the oxygen system.

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-00-00

Page 202
Jan 15/2022



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-00-00-100-001



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) Make sure that 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.

SUBTASK 35-00-00-860-002



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 35-00-00-910-003



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 35-00-00-910-004



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 that the fittings are aligned before you tighten the B-nut.

SUBTASK 35-00-00-910-005

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

EFFECTIVITY
SIA ALL

D633AM101-SIA

35-00-00

Page 203
Sep 15/2021



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

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 psig (689 kPa) and must not be installed in the high pressure system. High pressure can be more than 1850 psig (12,755 kPa).

SUBTASK 35-00-00-910-006



WARNING

KEEP A SPACE 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 35-00-00-860-003



CAUTION

MANUALLY OPEN AND CLOSE THE SHUTOFF VALVE, (25 IN-LB (2.8N.MM), MAXIMUM). IF YOU TIGHTEN THE VALVE ON THE OXYGEN CYLINDER MORE THAN 25 IN-LB (2.8N.MM), 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 35-00-00-100-002

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

SUBTASK 35-00-00-910-007

- (15) Make sure that 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)

EFFECTIVITY
SIA ALL

35-00-00

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Page 204
Sep 15/2021



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

(Continued)

Reference	Title
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 35-00-00-910-008

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

EFFECTIVITY
SIA ALL

35-00-00

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Page 205
Sep 15/2021



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL



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 35-00-00-910-009



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 that the threads on the nuts and fittings turn smoothly.

SUBTASK 35-00-00-910-010

- (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	Lockwire, Cotter Pins, and Lockrings - 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)	AMS3819 Class 1 Grade A or B Form 1 (Supersede BMS15-5 CLA)
G01912	Lockwire - MS20995NC32, Monel - 0.032 Inch (0.8128 mm) Diameter	NASM20995
G02479	Lockwire - MS20995CY20, Copper - 0.020 Inch (0.508 mm) Diameter	NASM20995
G50306	Compound - Leak Detection, Oxygen System	MIL-PRF-25567 (BAC5402)

EFFECTIVITY
SIA ALL

35-00-00

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Page 206
Sep 15/2022



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

(Continued)

Reference	Description	Specification
G50310	Tape - Nitto P-412 (Formerly Permacel) Ribbon Dope Thread Sealant Tape	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. Leak Detection

SUBTASK 35-00-00-910-011

- (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:
- (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.



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.



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

- (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.

EFFECTIVITY
SIA ALL

35-00-00

D633AM101-SIA

Page 207
Jan 15/2022



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

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

- (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 Nitto P-412 tape, G50310.
 - 2) Apply the Nitto P-412 tape, G50310, to the external threads.
NOTE: Do not apply the Nitto P-412 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 Nitto P-412 tape, G50310, pulled tight, to the pipe threads.
 - 4) Make sure that the Nitto P-412 tape, G50310, does not have an overlap with the internal fitting end.
- (d) 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 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 AND CLOSE THE SHUTOFF VALVE, (25 IN-LB (2.8N.MM), MAXIMUM). IF YOU TIGHTEN THE VALVE ON THE OXYGEN CYLINDER MORE THAN 25 IN-LB (2.8N.MM), YOU CAN CAUSE DAMAGE TO THE SHUTOFF VALVE.

- (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.

737-7/8/8200/9/10 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.

- (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: Lockwire, Cotter Pins, and Lockrings - 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 AND CLOSE THE SHUTOFF VALVE, (25 IN-LB (2.8N.MM), MAXIMUM). IF YOU TIGHTEN THE VALVE ON THE OXYGEN CYLINDER MORE THAN 25 IN-LB (2.8N.MM), YOU CAN CAUSE DAMAGE TO THE SHUTOFF VALVE.

- (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. The shutoff valve on the 806835-01 composite cylinder is fully open at approximately 6.5 revolutions.

- (b) Close the shutoff valve one forth of a turn.
- (c) Use MS20995NC32 lockwire, G01912, or MS20995CY20 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 —————

TASK 35-00-00-420-801

6. Installation of Caps on Open Oxygen Lines

A. References

Reference	Title
OHM 20-30-03	Overhaul Manual

EFFECTIVITY
SIA ALL

35-00-00

D633AM101-SIA

Page 209
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

B. Tools/Equipment

Reference	Description
STD-1130	Cap - Protective, Flareless Tube, 1/2-20 Thread
STD-1131	Plug - Protective, Flareless Tube, 1/2-20 Thread

C. Consumable Materials

Reference	Description	Specification
G00624	Bag - Plastic, General Purpose	

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. Installation of Caps on Open Oxygen Lines

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

SUBTASK 35-00-00-910-012

- (1) Use a Flareless Tube Cap, 1/2-20 Thread, STD-1130, or a Flareless Tube Plug, 1/2-20 Thread, STD-1131, to prevent contamination of the oxygen system.

SUBTASK 35-00-00-910-013

- (2) To clean oxygen Flareless Tube Caps, 1/2-20 Thread, STD-1130, or Flareless Tube Plugs, 1/2-20 Thread, STD-1131, use an approved vapor degrease process, (OHM 20-30-03).

SUBTASK 35-00-00-910-014

- (3) Make sure that all clean Flareless Tube Cap, 1/2-20 Thread, STD-1130, or Flareless Tube Plug, 1/2-20 Thread, STD-1131, are packaged in a sealed, clean plastic bag, G00624.

NOTE: Do not open the plastic bag, G00624, until you are prepared 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 container with a label for the 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 35-00-00-910-015

- (4) You can use the Flareless Tube Cap, 1/2-20 Thread, STD-1130, or Flareless Tube Plug, 1/2-20 Thread, STD-1131, again if you clean the parts each time that you use them.

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

EFFECTIVITY
SIA ALL

35-00-00

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Page 210
Sep 15/2021



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-00-00-910-016



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.



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 the fittings, components, plugs or caps used are clean and free of contamination, and thread particles.

NOTE: Oxygen clean fittings come from a sealed container with a label for use in the 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 35-00-00-910-017

- (7) Install clean Flareless Tube Cap, 1/2-20 Thread, STD-1130, or Flareless Tube Plug, 1/2-20 Thread, STD-1131, immediately to each open fitting and port.

NOTE: You can use a new Flareless Tube Cap, 1/2-20 Thread, STD-1130, or an equivalent plastic cap if the cap does not engage the connector threads. Use a clean metal Flareless Tube Cap, 1/2-20 Thread, STD-1130, if the Flareless Tube Cap, 1/2-20 Thread, STD-1130, engages the connector threads.

SUBTASK 35-00-00-910-018

- (8) Install parts to the open oxygen lines in five minutes after the Flareless Tube Cap, 1/2-20 Thread, STD-1130, or Flareless Tube Plug, 1/2-20 Thread, STD-1131, is removed.

— END OF TASK —

TASK 35-00-00-910-804

7. Oxygen Tubing Replacement

A. General

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

B. References

Reference	Title
35-00-00-100-801	Clean the Oxygen System Components (P/B 701)

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-00-00

Page 211
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

(Continued)

Reference	Title
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, Flareless Tube, 1/2-20 Thread
STD-1131	Plug - Protective, Flareless Tube, 1/2-20 Thread

D. Consumable Materials

Reference	Description	Specification
G00624	Bag - Plastic, General Purpose	
G50310	Tape - Nitto P-412 (Formerly Permacel) Ribbon Dope Thread Sealant Tape	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. Tubing and Hoses with Flareless and Flared Ends Replacement

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 35-00-00-910-019

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

SUBTASK 35-00-00-020-001

- (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 or hose 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 or hose assembly from the airplane.

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-00-00

Page 212
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL



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:

- 1) Make sure that any fittings, components, plugs or caps used are clean and free of contamination, and threaded chips.
- 2) Install a Flareless Tube Cap, 1/2-20 Thread, STD-1130, or a Flareless Tube Plug, 1/2-20 Thread, STD-1131, in each port (TASK 35-00-00-420-801).
- 3) Install a Flareless Tube Cap, 1/2-20 Thread, STD-1130, or a Flareless Tube Plug, 1/2-20 Thread, 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 or hoses:

- (a) Examine the tube or hose 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.



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.

EFFECTIVITY
SIA ALL

35-00-00

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Page 213
Sep 15/2021



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-00-00-420-005

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



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 or hose assembly 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 that 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. USE ONE TO HOLD THE MATING PART, AND THE OTHER TO TIGHTEN THE COUPLING NUT. IF YOU DO NOT USE TWO WRENCHES, DAMAGE TO THE TUBES AND MATING PART 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)

EFFECTIVITY
SIA ALL

D633AM101-SIA

35-00-00

Page 214
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

Table 202/35-00-00-993-802

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)
-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.
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(8) Tighten all of the tube clamps.

G. Pipe Threaded Fittings Replacement

SUBTASK 35-00-00-840-002

- (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 35-00-00-020-002

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

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-00-00

Page 215
Sep 15/2021



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-00-00-420-007



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.

SUBTASK 35-00-00-420-008

- (4) Do these steps to apply teflon Nitto P-412 tape, G50310, to the pipe threaded fitting ends:
- (a) Put the edge of the Nitto P-412 tape, G50310, on the fitting.
 - (b) Make sure that a minimum of 1-1/2 threads to a maximum of 2-1/2 threads remain uncovered at the start of the fitting.
 - (c) Pull the Nitto P-412 tape, G50310, around the threads to follow the thread contour.
 - (d) Apply 1-1/2 turns of Nitto P-412 tape, G50310, on fittings up to 1.5 in. (38.1 mm) in diameter.
 - (e) Apply 2 to 4 turns of Nitto P-412 tape, G50310, on fittings up to 1.5 in. (38.1 mm) in diameter and larger.
 - (f) Use narrow Nitto P-412 tape, G50310 (0.25 in. (6.4 mm) wide) when necessary, to make sure that the tape does not cover threaded fitting end.

SUBTASK 35-00-00-420-009

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



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:
 - 1) For pipe threaded fittings except CRES to CRES material combinations use the torque values in (Table 203).

EFFECTIVITY
SIA ALL

D633AM101-SIA

35-00-00

Page 216
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

- 2) 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 203/35-00-00-993-803

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)

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
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-00-00

Page 217
Sep 15/2021



737-7/8/8200/9/10 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
12-15-21-600-804	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 35-00-00-910-020

- (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) To service the crew oxygen system, do this task: Crew Oxygen Cylinder Replacement, TASK 12-15-21-600-804.

————— 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)
35-22-11-000-802	PSU Oxygen Generator Removal (P/B 401)
35-22-11-000-803	ASU Oxygen Generator Removal (P/B 401)
35-22-11-400-802	PSU Oxygen Generator Installation (P/B 401)
35-22-11-400-803	ASU Oxygen Generator Installation (P/B 401)
35-22-51-000-801	LSU Oxygen Cylinder (CDS) Removal (P/B 401)
35-22-51-400-801	LSU Oxygen Cylinder (CDS) Installation (P/B 401)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Procedure

SUBTASK 35-00-00-910-021

- (1) To read and obey the safety precautions and general maintenance instructions before you do

EFFECTIVITY
SIA ALL

35-00-00

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Page 301
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

the maintenance, do this task: Oxygen System General Maintenance Practices,
TASK 35-00-00-910-801.

SUBTASK 35-00-00-610-003

- (2) Do the applicable task to replace the chemical oxygen generator(s) or CDS oxygen cylinder(s):
- (a) For the passenger service units do these tasks:
 - PSU Oxygen Generator Removal, TASK 35-22-11-000-802
 - PSU Oxygen Generator Installation, TASK 35-22-11-400-802
 - (b) For the attendant service units do these tasks:
 - ASU Oxygen Generator Removal, TASK 35-22-11-000-803
 - ASU Oxygen Generator Installation, TASK 35-22-11-400-803
 - (c) For the lavatory service units do these tasks:
 - LSU Oxygen Cylinder (CDS) Removal, TASK 35-22-51-000-801
 - LSU Oxygen Cylinder (CDS) Installation, TASK 35-22-51-400-801

———— **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
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-00-00

Page 302
Sep 15/2021



737-7/8/8200/9/10 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)
OHM 20-30-03	Overhaul Manual
SOPM 20-30-80	Solvents For General Cleaning of Metal (Series 80)

C. Tools/Equipment

Reference	Description
STD-1130	Cap - Protective, Flareless Tube, 1/2-20 Thread
STD-1131	Plug - Protective, Flareless Tube, 1/2-20 Thread

D. Consumable Materials

Reference	Description	Specification
G00018	Nitrogen - Gaseous, Pressurizing, 99.5 Percent Pure	A-A-59503 Type I Grade B, MIL-PRF-27401 Type I Grade A
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	AMS3819 Class 1 Grade A or B Form 1 (Supersede BMS15-5 CLA)
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

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-00-00

Page 701
Sep 15/2022



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

F. Clean the Oxygen System Components

SUBTASK 35-00-00-910-022

- (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 35-00-00-140-001

- (2) To remove surface contamination from oxygen system components, do this step:
 - (a) 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

DO NOT USE SOLVENT CLEANERS ON THE INNER OXYGEN SYSTEM COMPONENTS. USE ONLY SOLVENT CLEANERS ON THE OUTER OXYGEN SYSTEM COMPONENTS. IF YOU DO NOT OBEY THESE INSTRUCTIONS, INJURIES TO PERSONNEL AND DAMAGE TO THE EQUIPMENT CAN OCCUR.

- (a) 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):
 - (a) Disassemble or remove the oxygen component(s) from the airplane.
 - (b) Use the instructions in the manufacturers overhaul manual to clean the component(s).



CAUTION

DO NOT PUT THE OXYGEN MASK HOSE NEAR THE ADJACENT STRUCTURE TO PREVENT RUBS OR KINKS. RUBS OR KINKS CAN CAUSE DAMAGE.

- (c) To clean oxygen tubing and fittings, use an approved vapor degrease process (OHM 20-30-03).
 - (d) Use one of these compressed gases to thoroughly dry the component(s):
 - 1) nitrogen, G00018.



WARNING

MAKE SURE THAT THE AIR SOURCE ENGAGES THE SPECIFICATIONS GIVEN IN THE STEPS THAT FOLLOW. CONTAMINATION CAUSED BY HYDROCARBONS AND UNWANTED PARTICLES IN OXYGEN LINES CAN CAUSE FIRES OR EXPLOSIONS. IF YOU DO NOT OBEY, THE FIRE CAN CAUSE INJURY TO PERSONS AND DAMAGE TO THE AIRPLANE.

- 2) Clean nitrogen, G00018, with these specifications:
 - a) Hydrocarbon contamination - maximum allowable - 3 parts per million by weight as carbon or 7 parts per million as CH₄.
 - b) Particulate contamination - maximum allowable - No particles or fiber greater than 100 micron in the longest dimension per cubic foot of air.

EFFECTIVITY
SIA ALL

D633AM101-SIA

35-00-00

Page 702
Jan 15/2022



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

- c) 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



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:
- (a) Make sure that any fittings, components, plugs or caps are clean and free of contamination, and threaded chips.
 - (b) Immediately install approved, clean, Flareless Tube Cap, 1/2-20 Thread, STD-1130, or a Flareless Tube Plug, 1/2-20 Thread, STD-1131, on all oxygen system components, tubes and fittings (TASK 35-00-00-420-801).
- NOTE: Flareless Tube Cap, 1/2-20 Thread, STD-1130, or a Flareless Tube Plug, 1/2-20 Thread, 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
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-00-00

Page 703
Jan 15/2022



737-7/8/8200/9/10
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 Guide (DDG). 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) DDG 35-11-01 Preparation - Flight Deck Crew Oxygen Pressure Indicator Inoperative
 - (2) DDG 35-11-01 Restoration - Flight Deck Crew Oxygen Pressure Indicator Inoperative
 - (3) DDG 35-21-02 Preparation - Passenger, Lavatory and Attendant Service Units Inoperative
 - (4) DDG 35-21-02 Restoration - Passenger, Lavatory and Attendant Service Units Inoperative
 - (5) DDG 35-21-02-01 Preparation - Passenger, Lavatory and Attendant Service Units Automatic Presentation Inoperative
 - (6) DDG 35-21-02-02 Preparation - Passenger, Lavatory and Attendant Service Units Door Latches Inoperative
 - (7) DDG 35-21-02-02 Restoration - Passenger, Lavatory and Attendant Service Units Door Latches Inoperative
 - (8) DDG 35-31-01 Preparation - Portable Oxygen Dispensing Units (Bottle and Mask) Inoperative
 - (9) DDG 35-31-01 Restoration - Portable Oxygen Dispensing Units (Bottle and Mask) Inoperative

TASK 35-00-00-040-804

2. **DDG 35-11-01-01 Preparation - Flight Deck Crew Oxygen Pressure Indicator Inoperative**

A. General

- (1) This task gives the maintenance steps which prepare the airplane for flight with the flight deck crew oxygen pressure indicator inoperative.

B. Location Zones

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

C. Access Panels

Number	Name/Location
121LW	PANEL ASSY - FORWARD CARGO COMPARTMENT FWD BULKHEAD FAN COVER

D. Oxygen Pressure Indicator Preparation

SUBTASK 35-00-00-040-001

- (1) Put an INOP placard on the crew oxygen pressure indicator.

NOTE: The crew oxygen pressure indicator is on the pilot's overhead panel, P5-14.

EFFECTIVITY
SIA ALL

35-00-00

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Page 901
May 15/2022



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-00-00-010-002

- (2) Open this access panel:

<u>Number</u>	<u>Name/Location</u>
121LW	PANEL ASSY - FORWARD CARGO COMPARTMENT FWD BULKHEAD FAN COVER

SUBTASK 35-00-00-860-005

- (3) Make sure that the crew oxygen cylinder shutoff valve is open.

SUBTASK 35-00-00-860-006

- (4) Make sure that the oxygen pressure on the gauge is above the minimum required for flight.

- (a) See the Boeing Flight Crew Operations Manual, Performance Dispatch section, for minimum required dispatch bottle pressure.

NOTE: Refer to flight crew oxygen tables for the appropriate passenger oxygen system configuration.

SUBTASK 35-00-00-410-003

- (5) Close this access panel:

<u>Number</u>	<u>Name/Location</u>
121LW	PANEL ASSY - FORWARD CARGO COMPARTMENT FWD BULKHEAD FAN COVER

————— END OF TASK —————

TASK 35-00-00-440-802

3. DDG 35-11-01-01 Restoration - Flight Deck Crew Oxygen Pressure Indicator Inoperative

A. General

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

B. Location Zones

<u>Zone</u>	<u>Area</u>
122	Forward Cargo Compartment - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

C. Oxygen Pressure Indicator Restoration

SUBTASK 35-00-00-440-001

- (1) Remove the INOP placard on the crew oxygen pressure indicator.

————— END OF TASK —————

TASK 35-00-00-040-801

4. DDG 35-21-02 Preparation - Passenger, Attendant, and Lavatory Oxygen Service Units Inoperative

A. General

- (1) This task gives the maintenance steps which prepare the airplane for flight with the oxygen service units inoperative.

B. Location Zones

<u>Zone</u>	<u>Area</u>
200	Upper Half of Fuselage

EFFECTIVITY
SIA ALL

35-00-00

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Page 902
May 15/2022



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

C. Passenger Service Unit Preparation

SUBTASK 35-00-00-040-005

- (1) Close the inoperative oxygen mask door and put adhesive tape.

SUBTASK 35-00-00-040-006

- (2) Use adhesive tape or rope to block the seats with the inoperative units.

SUBTASK 35-00-00-040-007

- (3) If an inoperative unit is in a lavatory, close the lavatory door and put up an INOPERATIVE - DO NOT ENTER placard.

————— END OF TASK —————

TASK 35-00-00-440-804

5. DDG 35-21-02 Restoration - Passenger, Attendant, and Lavatory Service Units Inoperative

A. General

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

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Passenger Service Unit Restoration

SUBTASK 35-00-00-810-002

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

SUBTASK 35-00-00-440-004

- (2) Remove the adhesive tape or rope used to block the passenger seats.

SUBTASK 35-00-00-440-005

- (3) If necessary, remove the INOPERATIVE - DO NOT ENTER placard from the closed lavatory door.

————— END OF TASK —————

TASK 35-00-00-040-802

6. DDG 35-21-02-01 Preparation - Passenger, Attendant, and Lavatory Oxygen Service Units Automatic Presentation Inoperative

A. General

- (1) This task gives the maintenance steps which prepare the airplane for flight with the automatic presentation system inoperative.

B. References

Reference	Title
35-22-00-700-802	Passenger Oxygen System Manual Deploy Operational Test (P/B 501)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

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35-00-00

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Page 903
May 15/2022



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

D. Automatic Deploy System Preparation

SUBTASK 35-00-00-710-001

- (1) Make sure that the manual deployment system operates correctly. Do this task: Passenger Oxygen System Manual Deploy Operational Test, TASK 35-22-00-700-802.

————— END OF TASK —————

TASK 35-00-00-040-803

7. DDG 35-21-02-02 Preparation - Passenger, Lavatory and Attendant Service Units Door Latches Inoperative

A. General

- (1) This task gives the maintenance steps which prepare the airplane for flight with the service unit door latches inoperative.

B. References

Reference	Title
35-22-11-000-802	PSU Oxygen Generator Removal (P/B 401)
35-22-11-400-802	PSU Oxygen Generator Installation (P/B 401)
35-22-31-440-801	PSU Oxygen Mask Packing (P/B 201)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Door Latches (Unlatched) Preparation

SUBTASK 35-00-00-010-004

- (1) Open the applicable oxygen mask door on the service unit.

SUBTASK 35-00-00-720-001

- (2) Make sure that the oxygen generator has not been activated.

NOTE: If the color band is black, replace the generator.

SUBTASK 35-00-00-400-001

- (3) If necessary, do these tasks to replace the oxygen generator:
 - (a) PSU Oxygen Generator Removal, TASK 35-22-11-000-802
 - (b) PSU Oxygen Generator Installation, TASK 35-22-11-400-802

SUBTASK 35-00-00-840-003

- (4) Make sure that the oxygen masks are packed correctly. Do this task: PSU Oxygen Mask Packing, TASK 35-22-31-440-801.

SUBTASK 35-00-00-410-005

- (5) Close the oxygen mask door on the service unit.

SUBTASK 35-00-00-420-010

- (6) Put a piece of tape on the oxygen mask door to keep the door closed.
 - (a) Fold a piece of tape to make a handle approximately 4 in. (102 mm) long (non-adhesive side out).
 - (b) Put the tape handle over the tape that is used to keep the service unit oxygen mask door closed.

EFFECTIVITY
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D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-00-00

Page 904
May 15/2022



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

- (c) Make sure that the tape handle hangs down approximately 4 in. (102 mm).

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

————— END OF TASK —————

TASK 35-00-00-440-806

8. DDG 35-21-02-02 Restoration - Passenger, Lavatory and Attendant Service Units Door Latches Inoperative

A. General

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

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Door Latches (Unlatched) Restoration

SUBTASK 35-00-00-020-003

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

————— END OF TASK —————

TASK 35-00-00-040-806

9. DDG 35-31-01 Preparation - Portable Oxygen Dispensing Units (Bottle and Mask) Inoperative

A. General

- (1) This task gives the maintenance steps which prepare the airplane for flight with portable oxygen dispensing units inoperative.

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Portable Oxygen Deactivation

SUBTASK 35-00-00-200-003

- (1) Make sure that necessary number of operative portable oxygen dispensing units are in the airplane.

SUBTASK 35-00-00-610-004

- (2) Stow the units that do not operate correctly in a location where they will not be used.

SUBTASK 35-00-00-610-006

- (3) Remove or cover the locator placard for the out of service units.

————— END OF TASK —————

TASK 35-00-00-440-808

10. DDG 35-31-01 Restoration - Portable Oxygen Dispensing Units (Bottle and Mask) Inoperative

A. General

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

EFFECTIVITY
SIA ALL

35-00-00

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Page 905
May 15/2022



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Portable Oxygen Restoration

SUBTASK 35-00-00-810-007

- (1) Make sure that the minimum quantity of portable oxygen dispensing units for flight are fully serviced and operate correctly.

SUBTASK 35-00-00-610-005

- (2) Restore the portable oxygen cylinder locator placard.

————— **END OF TASK** —————

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-00-00

Page 906
May 15/2022



737-7/8/8200/9/10
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.
- (3) Crew Oxygen System - Deactivation.
- (4) Crew Oxygen System - Activation.

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)
50-11-01-000-801	Forward Cargo Compartment Forward Bulkhead Liner Removal (P/B 401)

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 35-12-00-910-001

- (1) Obey the safety precautions and general instructions for the oxygen system before you do the maintenance (TASK 35-00-00-910-801).

SUBTASK 35-12-00-860-001

- (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 bottom center cargo compartment panel from the front of the forward cargo compartment (TASK 50-11-01-000-801).
- (b) Remove the lockwire from the shutoff valve.



CAUTION

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

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

D. **Bleed the Crew Oxygen System (With EROS MF10/MF20 and Nasal Masks)**

SUBTASK 35-12-00-870-001

- (1) Do these steps to bleed the crew oxygen system:
 - (a) Go to the captain's oxygen stowage box (View A, Figure 202).
 - (b) Push and hold the RESET-TEST lever on the stowage box in the direction of the arrow.

EFFECTIVITY
SIA ALL

D633AM101-SIA

35-12-00

Page 201
Sep 15/2023



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

- (c) Push the dilution control switch on the mask/regulator assembly to 100% (View B, Figure 202).
- (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.
- (f) When the flow of oxygen stops, push the dilution control switch to the N (normal) position.

SUBTASK 35-12-00-860-019

- (2) Do the applicable maintenance.

———— **END OF TASK** ————

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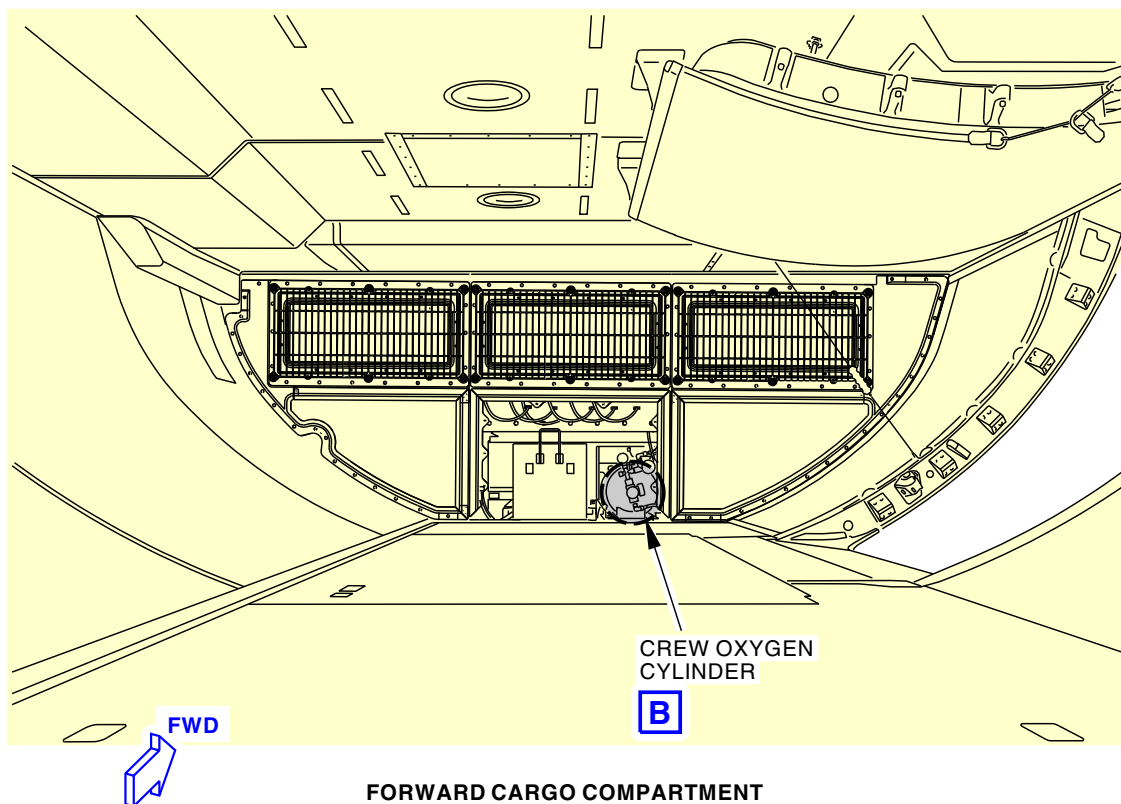
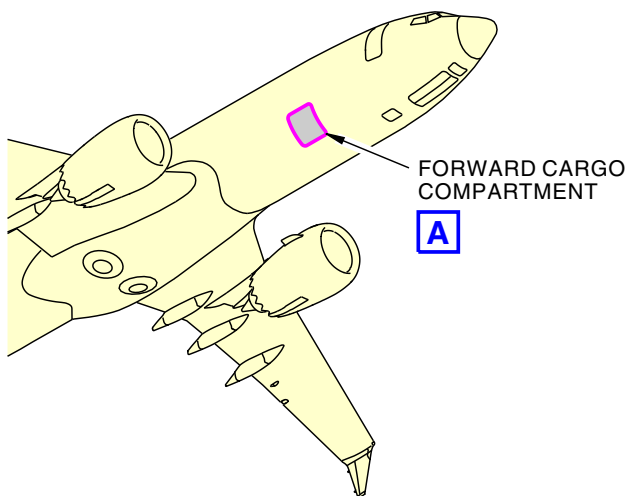
ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-00

Page 202
Sep 15/2023



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL



FORWARD CARGO COMPARTMENT

A

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Crew Oxygen Cylinder - Bleed System
Figure 201/35-12-00-990-801 (Sheet 1 of 2)

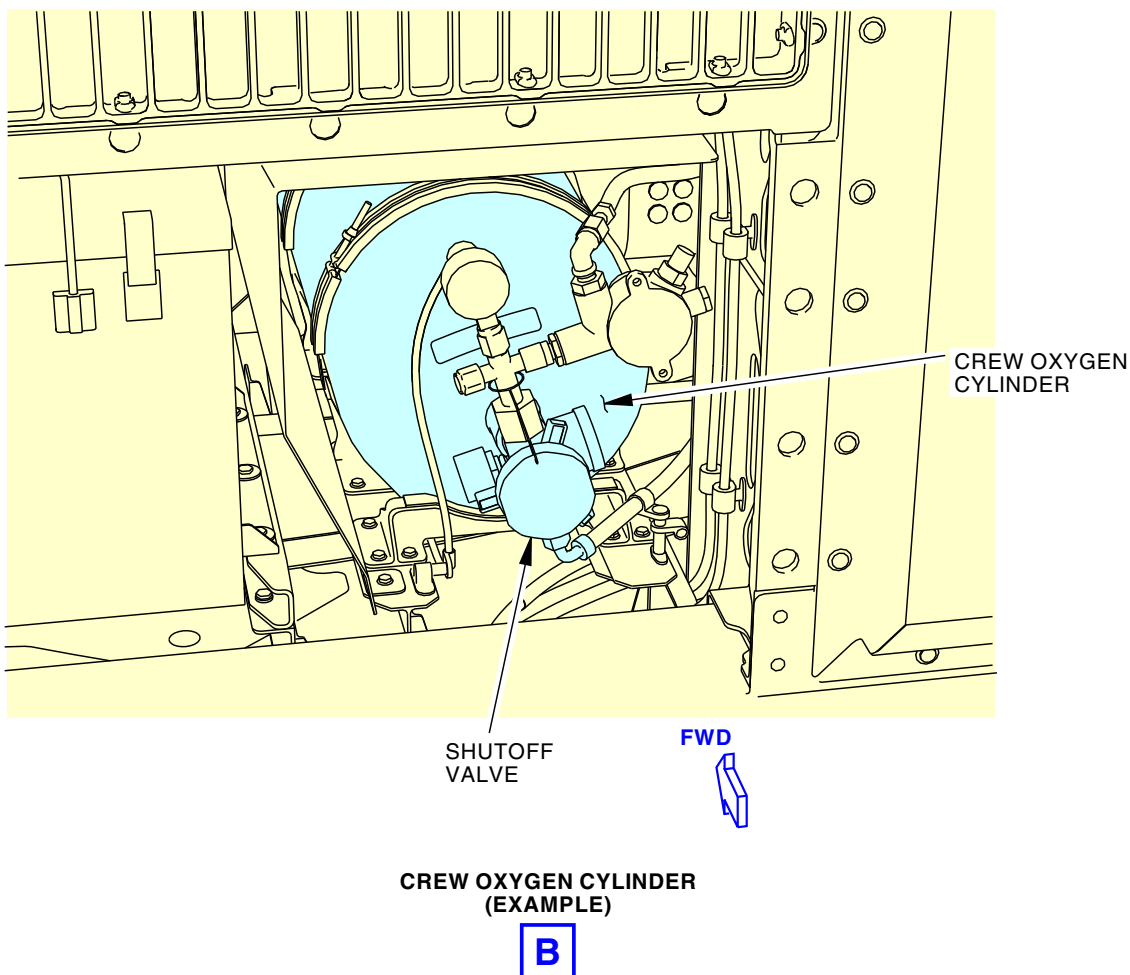
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D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-00

Page 203
Sep 15/2023



2414911 S00061536576_V1

Crew Oxygen Cylinder - Bleed System
Figure 201/35-12-00-990-801 (Sheet 2 of 2)

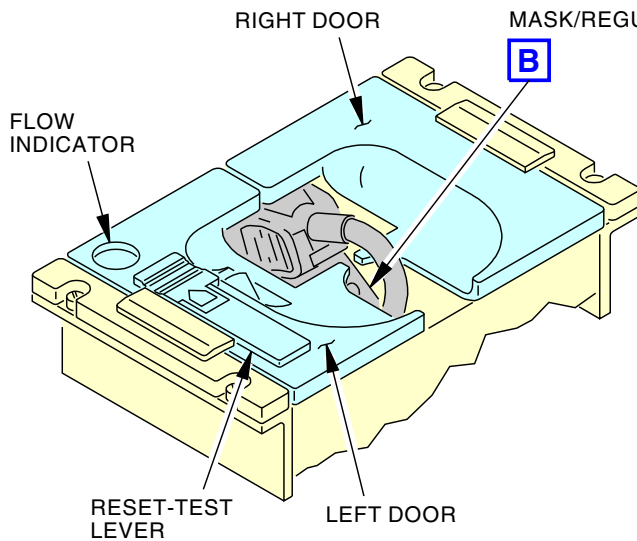
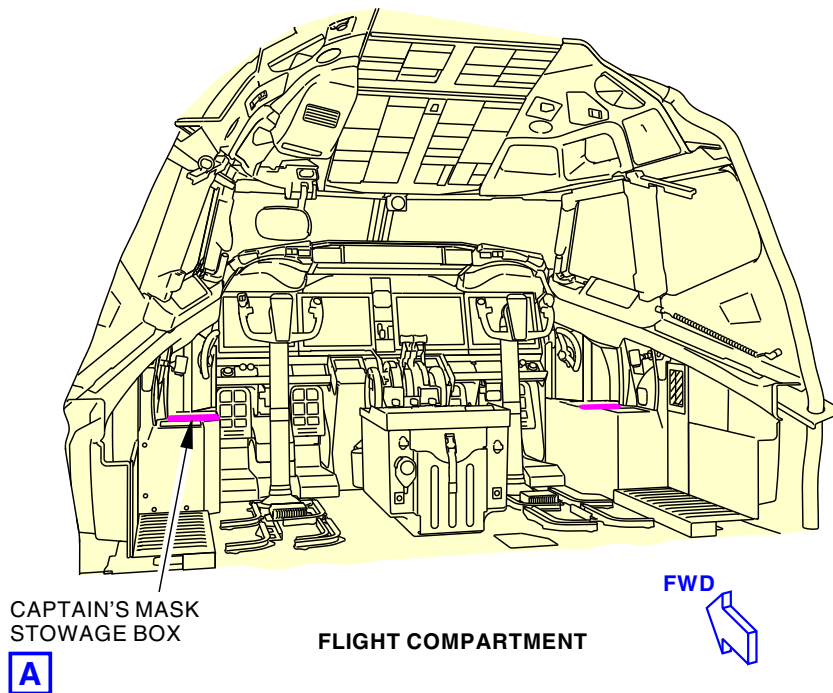
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

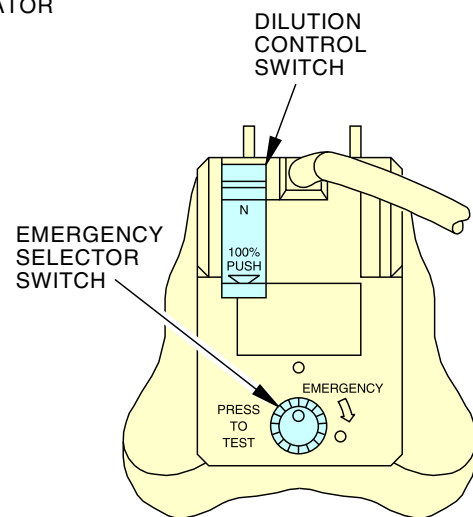
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Page 204
Sep 15/2021



CAPTAIN'S MASK STOWAGE BOX

A



MASK/REGULATOR

B

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Mask Stowage Box - Bleed System
Figure 202/35-12-00-990-802

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ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-00



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

TASK 35-12-00-800-802

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

(Figure 201, Figure 202)

A. References

Reference	Title
20-10-44-400-801	Lockwire, Cotter Pins, and Lockrings - 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 Visual Check (P/B 501)
35-12-00-710-802	Crew Oxygen System Pressure Decay Leak Check (P/B 601)
50-11-01-400-801	Forward Cargo Compartment Forward Bulkhead Liner Installation (P/B 401)

B. Consumable Materials

Reference	Description	Specification
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	AMS3819 Class 1 Grade A or B Form 1 (Supersede BMS15-5 CL A)
G01912	Lockwire - MS20995NC32, Monel - 0.032 Inch (0.8128 mm) Diameter	NASM20995
G02479	Lockwire - MS20995CY20, Copper - 0.020 Inch (0.508 mm) Diameter	NASM20995
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 35-12-00-910-002

- (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 35-12-00-940-001

- (2) Do these steps to pressurize the crew oxygen system:
- (a) Go to the crew oxygen system cylinder (View A, Figure 201).
- (b) Make sure that all of the tubes and components are tightened to the correct torque.



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.

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-00

Page 206
Sep 15/2023



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

(WARNING PRECEDES)



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.

NOTE: The force necessary to open the valves on composite cylinders can increase before the valves are fully open.

- (d) Close the shutoff valve one quarter of a turn.

- (e) Do the crew oxygen cylinder leak detection below.

- 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 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 QUICKLY. HIGH TEMPERATURES CAN CAUSE A FIRE OR EXPLOSION. A FIRE OR EXPLOSION CAN CAUSE INJURY TO PERSONS AND DAMAGE TO EQUIPMENT.

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-00

Page 207
Sep 15/2023



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

(WARNING PRECEDES)



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

- (d) Slowly open the shutoff valve with your hand until it is fully open.

NOTE: The force necessary to open the valves on composite cylinders can increase before the valves are 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 35-12-00-420-001

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

F. Lockwire the Shutoff Valve on the Crew Oxygen Cylinder

SUBTASK 35-12-00-420-002

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

- (a) Make sure that 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. The shutoff valve on the 806835-01 composite cylinder is fully open at approximately 6.5 revolutions.

NOTE: The force necessary to open the valves on composite cylinders can increase before the valves are fully open.

- (b) Close the shutoff valve one quarter of a turn.
(c) Use MS20995NC32 lockwire, G01912, or MS20995CY20 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.

G. System Operational Check

SUBTASK 35-12-00-210-003

- (1) 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 35-12-00-010-003

- (2) Get access to the captains or the first officers mask stowage box (Figure 202).

SUBTASK 35-12-00-710-033

- (3) Push and hold the RESET-TEST LEVER of the mask stowage box to the TEST position.
(a) Make sure that the flow indicator of the oxygen stowage box shows a yellow flow indication.

EFFECTIVITY
SIA ALL

35-12-00

D633AM101-SIA

Page 208
Sep 15/2023



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

- (b) Make sure that the flow indicator goes back to the zero flow indication (black).

NOTE: After the mask is inflated, the flow indicator will show that there is no flow.

SUBTASK 35-12-00-710-034

- (4) Continue to hold the RESET-TEST LEVER of the mask stowage box in the TEST position and do these steps:

- (a) Push and hold the knob of the EMERGENCY SELECTOR SWITCH on the mask regulator to TEST position.
- (b) Make sure that the FLOW INDICATOR of the oxygen stowage box shows a yellow flow indication.
- (c) Make sure that the pressure on the pressure indicator on the P5-14 panel does not decrease more than 100 psig (689 kPa).

NOTE: If the pressure decreases more than 100 psig (689 kPa), or it increases slowly, this shows that the supply is not sufficient.

- 1) If the pressure decreases more than 100 psig (689 kPa) or if it increases slowly, do these steps:
- a) Make sure that the oxygen cylinder valve is fully open and repeat the steps again.
- b) If the condition continues, then do this task: Crew Oxygen System Pressure Decay Leak Check, TASK 35-12-00-710-802.
- 2) Make sure that you can hear the flow of oxygen.
- 3) Release the knob of the EMERGENCY SELECTOR SWITCH.
- a) Make sure that the flow indicator of the stowage box shows a zero flow indication (black).
- 4) Release the TEST-RESET LEVER of the mask stowage box.
- a) Make sure that the TEST-RESET LEVER goes to its usual position.

SUBTASK 35-12-00-710-035

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

NOTE: This step will open the shutoff valve of the stowage box.

- (a) Momentarily push the knob of the EMERGENCY SELECTOR SWITCH on the mask regulator.
- 1) Make sure that the FLOW INDICATOR of the oxygen stowage box shows a yellow flow indication.

SUBTASK 35-12-00-860-018

- (6) Make sure that the DILUTION CONTROL SWITCH is set to 100% oxygen.

SUBTASK 35-12-00-410-008

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

- (a) Make sure that the OXY ON flag of the stowage box shows.

SUBTASK 35-12-00-440-001

- (8) Push the TEST-RESET lever again to reset the shutoff valve of the mask stowage box.

- (a) Make sure that the OXY ON flag of the stowage box does not show.

SUBTASK 35-12-00-700-001

- (9) Do the test again for the other crew oxygen masks, if it is necessary.

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-00

Page 209
Sep 15/2023



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

H. Put the Airplane Back to Its Usual Condition

SUBTASK 35-12-00-710-001

- (1) Do this task: Crew Oxygen Pressure Indication Visual Check, TASK 35-12-00-710-801.

SUBTASK 35-12-00-410-001

- (2) Install the center bottom cargo compartment panel to the front of the cargo compartment (TASK 50-11-01-400-801).

————— END OF TASK —————

TASK 35-12-00-040-801

4. Crew Oxygen System - Deactivation

(Figure 203)

A. General

- (1) This task will deactivate the crew oxygen system.

B. Location Zones

Zone	Area
122	Forward Cargo Compartment - Right

C. Crew Oxygen System - Deactivation

SUBTASK 35-12-00-870-002

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

SUBTASK 35-12-00-860-003

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND

D. Tryout

NOTE: This tryout is to make sure the crew oxygen system is in a zero energy state.

SUBTASK 35-12-00-860-004

- (1) Make sure that this circuit breaker is open and has safety tag:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND

SUBTASK 35-12-00-860-005

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

————— END OF TASK —————

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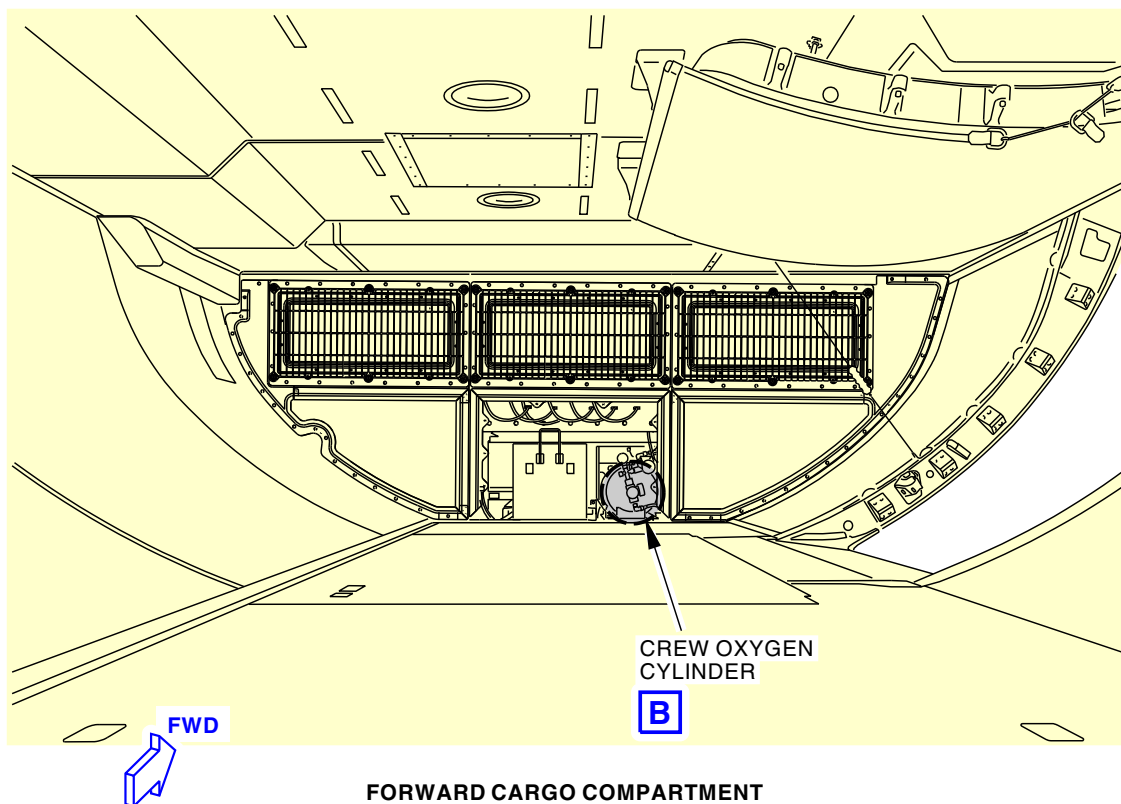
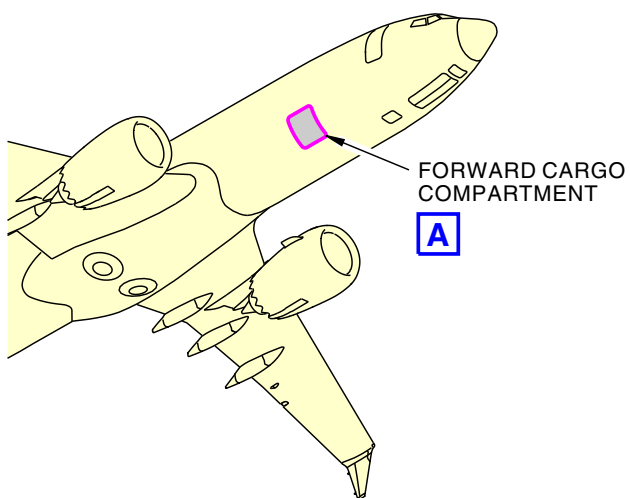
ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-00

Page 210
Sep 15/2023



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL



FORWARD CARGO COMPARTMENT

A

2414910 S00061536575_V2

Crew Oxygen Cylinder
Figure 203/35-12-00-990-803 (Sheet 1 of 2)

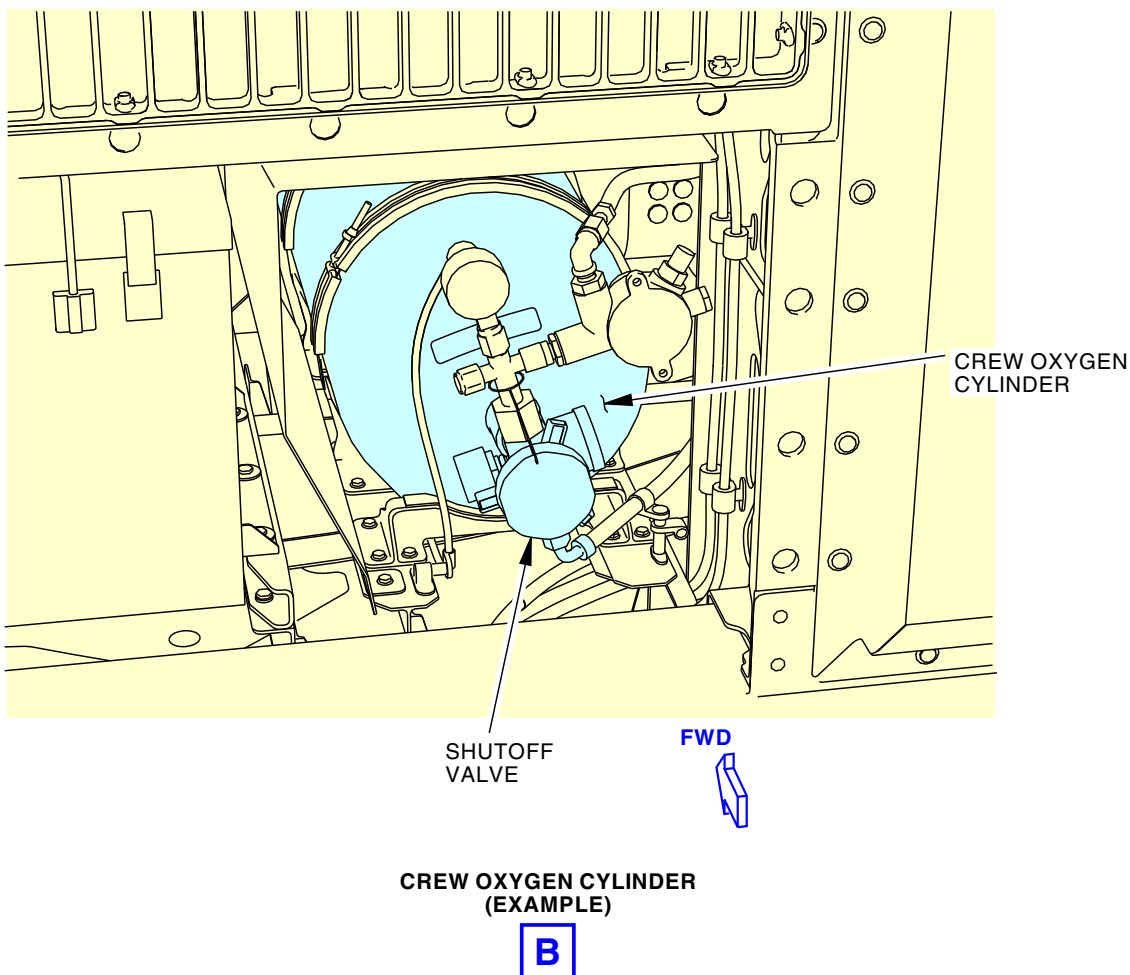
EFFECTIVITY
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D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-00

Page 211
Sep 15/2023



2414911 S00061536576_V1

Crew Oxygen Cylinder
Figure 203/35-12-00-990-803 (Sheet 2 of 2)

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-00

Page 212
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

TASK 35-12-00-440-801

5. Crew Oxygen System - Activation

(Figure 203)

A. General

- (1) This task will activate the crew oxygen system.

B. Location Zones

Zone	Area
------	------

122	Forward Cargo Compartment - Right
-----	-----------------------------------

C. Crew Oxygen System - Activation

SUBTASK 35-12-00-860-006

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

SUBTASK 35-12-00-860-007

- (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

————— END OF TASK —————

EFFECTIVITY
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D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-00

Page 213
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL
CREW OXYGEN SYSTEM - ADJUSTMENT/TEST

1. General

A. 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 Visual Check

TASK 35-12-00-700-801

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

(Figure 501 or Figure 502)

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)
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 35-12-00-910-003

- (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 35-12-00-840-001

- (2) 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 35-12-00-840-002

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

SUBTASK 35-12-00-840-003

- (4) 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.

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SIA ALL

35-12-00

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Page 501
Sep 15/2021



**737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL**

E. Mask Stowage Box Operational Test (WITH EROS MF10/MF20 and NASAL MASKS)

SUBTASK 35-12-00-710-002

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

SUBTASK 35-12-00-710-003

- (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 35-12-00-710-004

- (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 35-12-00-710-005

- (4) Momentarily push the EMERGENCY selector switch.

SUBTASK 35-12-00-710-006

- (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 35-12-00-710-007

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

SUBTASK 35-12-00-710-008

- (7) Release the reset-test lever.

SUBTASK 35-12-00-710-009

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

SUBTASK 35-12-00-710-010

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

NOTE: This step will open the shutoff valve.

SUBTASK 35-12-00-710-011

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

SUBTASK 35-12-00-710-012

- (11) Momentarily push the EMERGENCY selector switch.

SUBTASK 35-12-00-710-013

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

SUBTASK 35-12-00-710-014

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

SUBTASK 35-12-00-710-015

- (14) Close the left door on the mask stowage box.
 - (a) Make sure that the OXY ON flag, on the left door of the stowage box, shows.

SUBTASK 35-12-00-710-016

- (15) Push the reset-test lever to reset, to set the shutoff valve again.
 - (a) Make sure that the OXY ON flag, on the left door of the stowage box, does not show.

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35-12-00

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-12-00-710-017

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

———— **END OF TASK** ————

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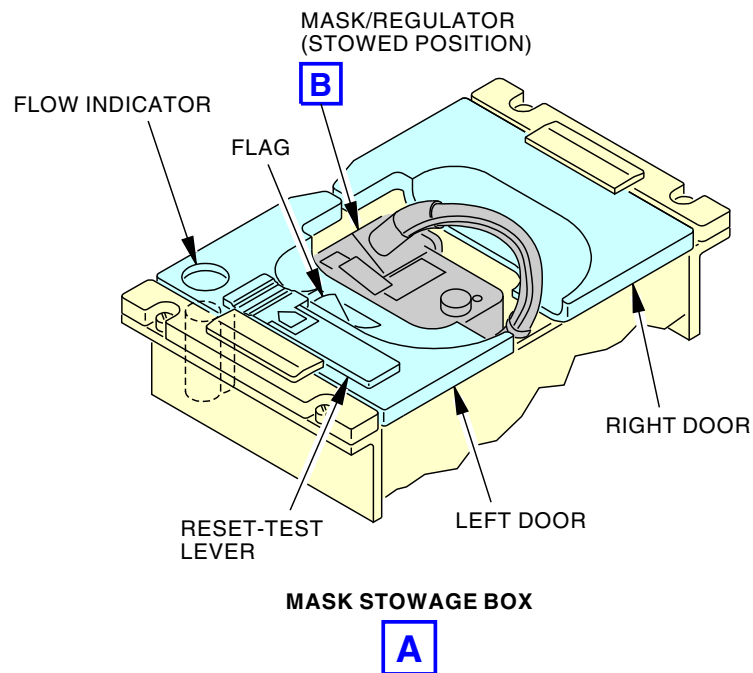
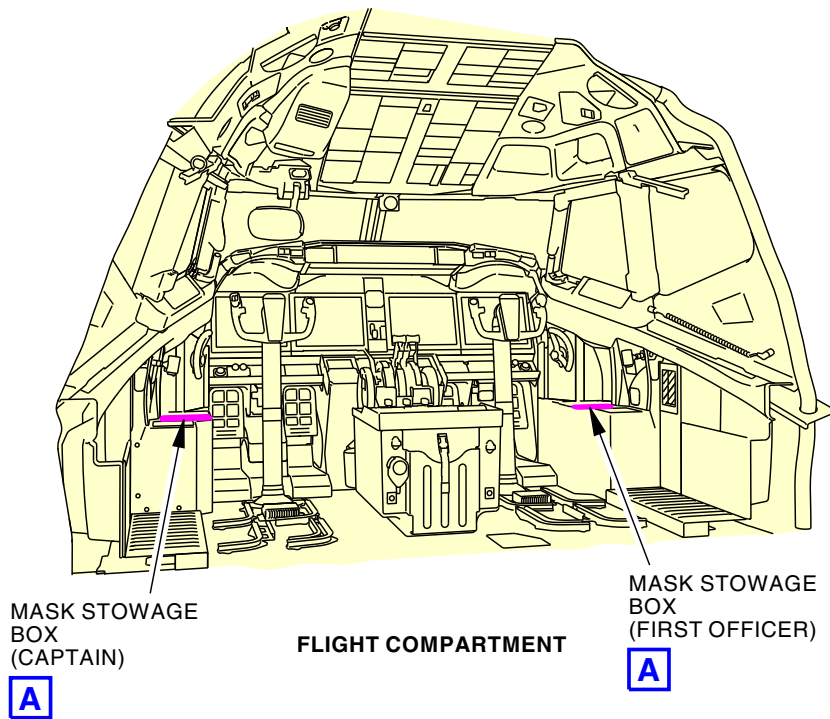
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35-12-00

Page 503
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL



2414913 S00061536583_V1

Flight Crew Oxygen Storage Box, Mask/Regulator Test
Figure 501/35-12-00-990-804 (Sheet 1 of 2)

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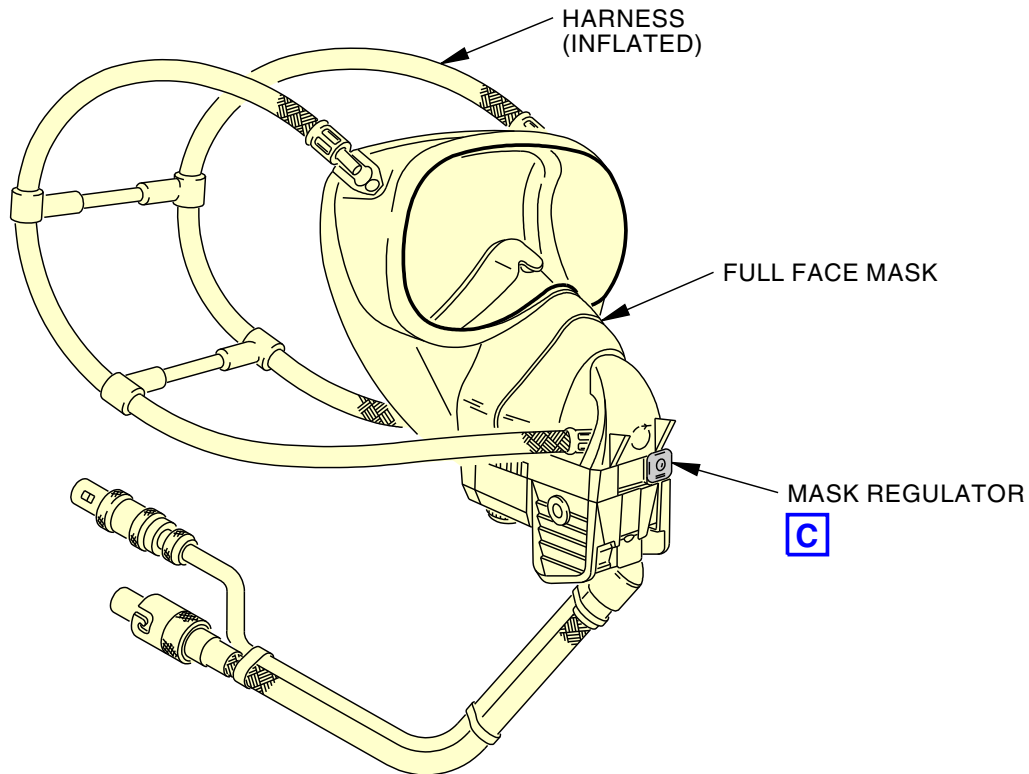
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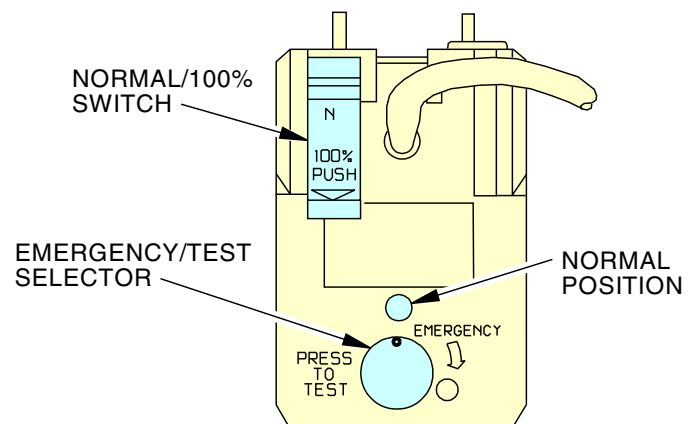
Page 504
Sep 15/2021

BOEING
737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL



OXYGEN MASK

B



2414914 S00061536584_V1

Flight Crew Oxygen Stowage Box, Mask/Regulator Test
Figure 501/35-12-00-990-804 (Sheet 2 of 2)

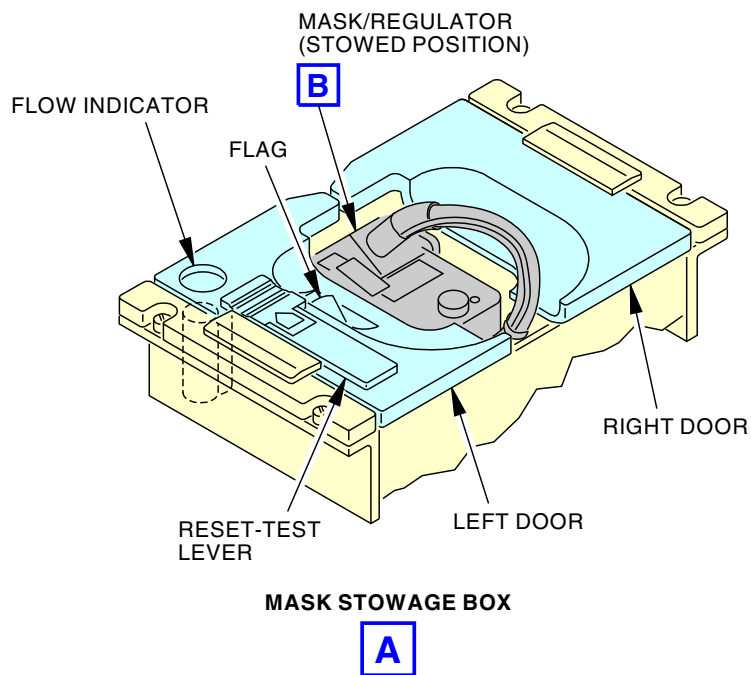
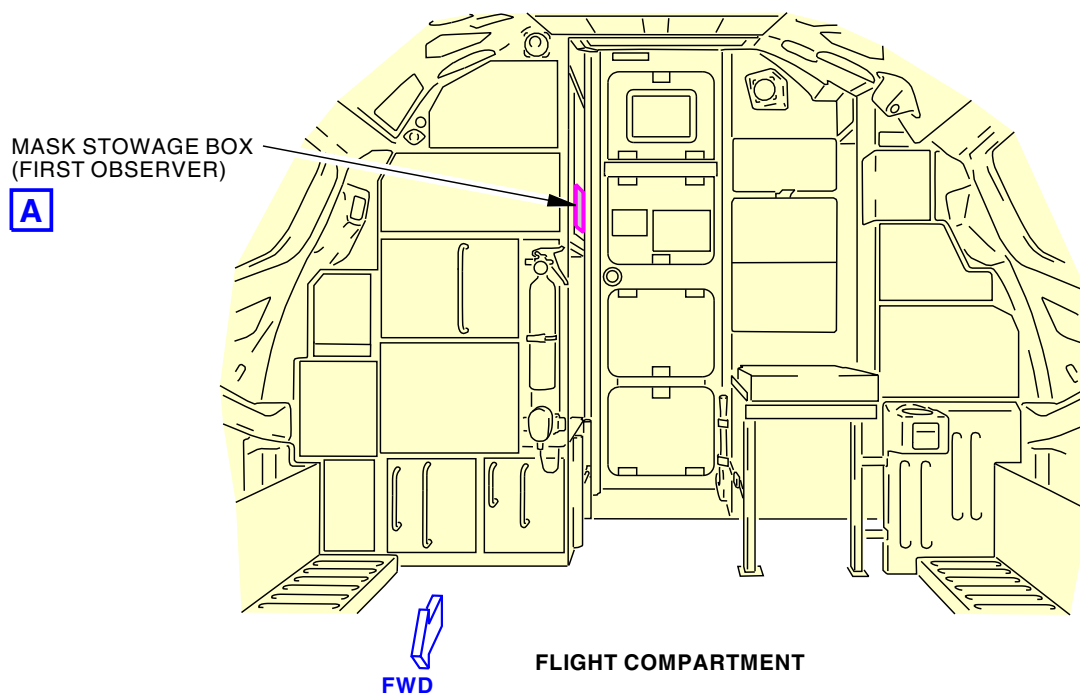
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-00

Page 505
Sep 15/2021



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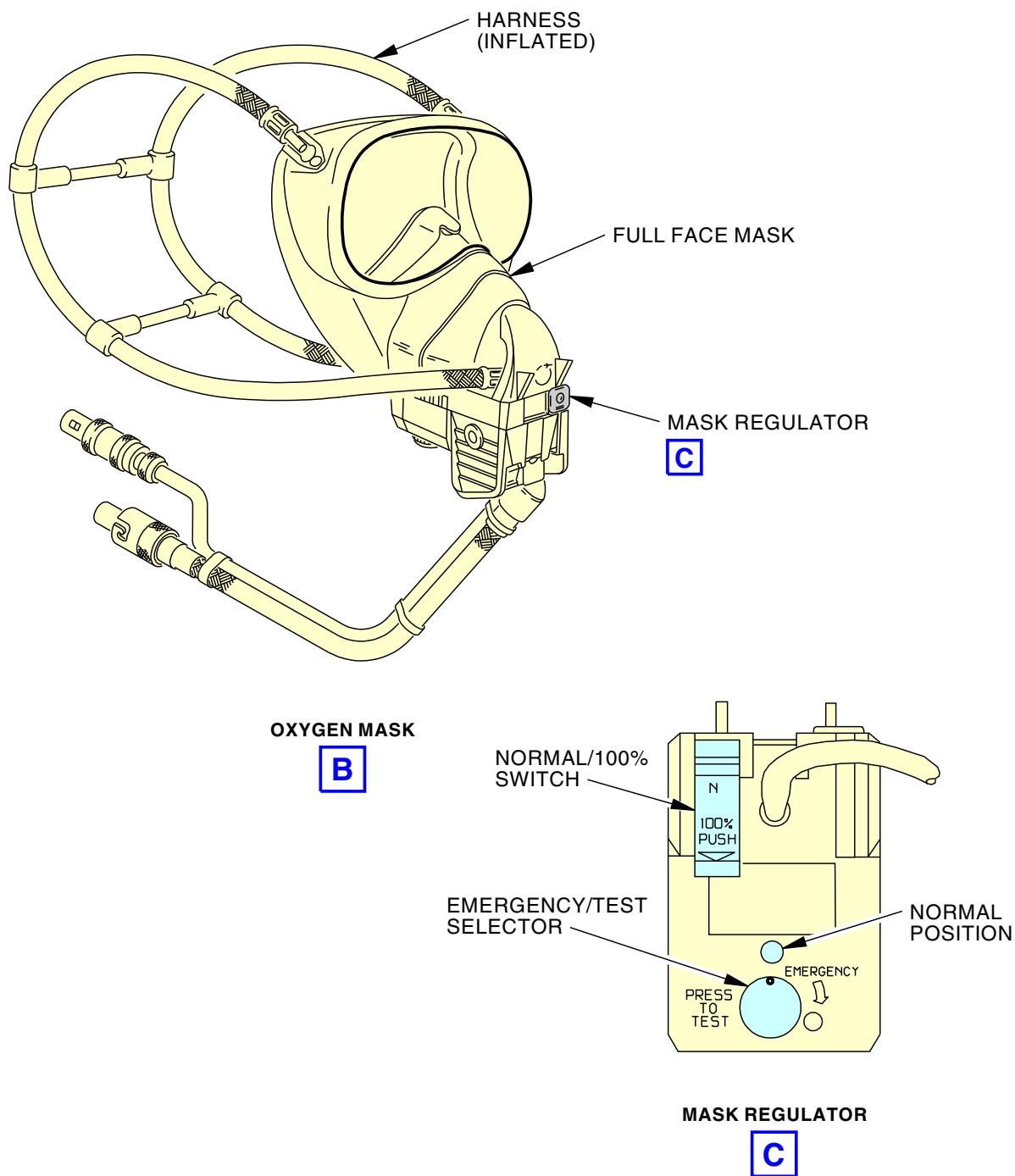
First Observer Oxygen Stowage Box, Mask/Regulator Test
Figure 502/35-12-00-990-805 (Sheet 1 of 2)

EFFECTIVITY
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35-12-00

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details



2414916 S00061536586_V1

First Observer Oxygen Stowage Box, Mask/Regulator Test
Figure 502/35-12-00-990-805 (Sheet 2 of 2)

EFFECTIVITY
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D633AM101-SIA

35-12-00

Page 507
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

TASK 35-12-00-700-802

3. **Crew Oxygen Mask-Regulator Test**

(Figure 501 or Figure 502)

NOTE: This procedure is a scheduled maintenance task.

A. General

- (1) This test examines mask-regulator. The mask-regulator is removed from the mask stowage box or cup.
- (2) 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)
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 35-12-00-910-004

- (1) 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 35-12-00-860-011

- (2) 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

- (3) Make sure that the shutoff valve on the crew oxygen cylinder is open and 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

- (4) Make sure that the pressure indicator, on the P5 aft overhead panel, shows a cylinder pressure of 150 psig (1034 kPa) - 1900 psig (13,100 kPa).

SUBTASK 35-12-00-840-006

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

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SIA ALL

35-12-00

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Page 508
Sep 15/2021



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

E. Mask-Regulator Operational Test

SUBTASK 35-12-00-010-001

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

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, Figure 501 or Figure 502).

SUBTASK 35-12-00-710-019

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

NOTE: A blinker is not installed on mask stowage cups.

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

SUBTASK 35-12-00-710-020

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

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

SUBTASK 35-12-00-710-021

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

SUBTASK 35-12-00-710-022

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

NOTE: Stowage cups do not have a flow indicator.

SUBTASK 35-12-00-710-023

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

SUBTASK 35-12-00-710-024

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

SUBTASK 35-12-00-710-025

- (9) Make sure that you can breathe correctly.

NOTE: When you set the EMERGENCY position, a continuous oxygen flow is supplied. Breathing must be free.

SUBTASK 35-12-00-710-026

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

SUBTASK 35-12-00-710-027

- (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.

NOTE: Some masks do not have communication equipment installed.

SUBTASK 35-12-00-410-003

- (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 Visual Check

NOTE: This procedure is a scheduled maintenance task.

EFFECTIVITY
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D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-00

Page 509
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

A. General

- (1) This task is for the visual check of the crew oxygen pressure indication system.

B. References

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

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Crew oxygen pressure indicator	31-11-95-01-010 31-11-95-02-010	SIA 001-014 SIA 015-999

D. Location Zones

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

E. Prepare for the Visual Check

SUBTASK 35-12-00-910-005

- (1) Do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-12-00-860-017

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND

F. Crew Oxygen Pressure Indication Visual Check

SUBTASK 35-12-00-860-014

- (1) Make sure that 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 35-12-00-710-028

- (2) Do these steps to make sure the oxygen pressure indication system is operational:
- (a) Compare the values of these pressure gages:
- 1) The crew oxygen pressure indicator [1] in the flight compartment, pilot's aft overhead, P5-14 panel.
 - 2) The crew oxygen cylinder pressure gage in the forward cargo bay.
- (b) Make sure that the pressure difference is less than 100 psig (689 kPa).

————— **END OF TASK** —————

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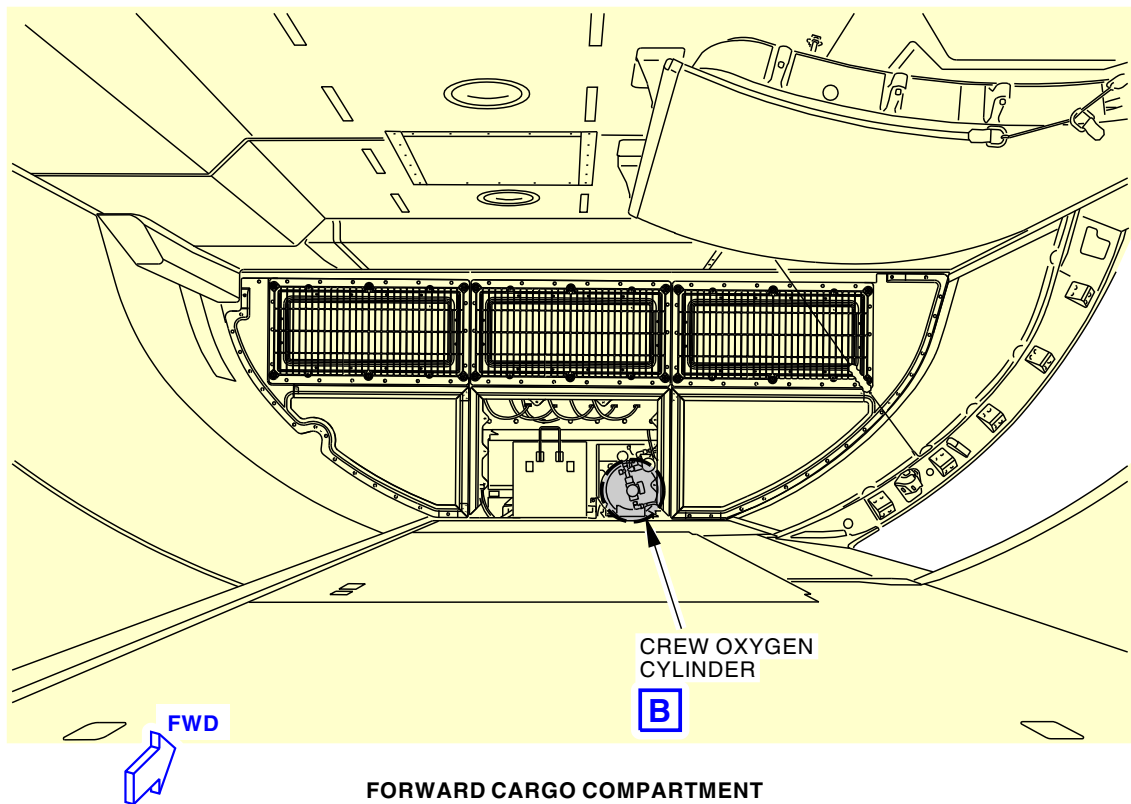
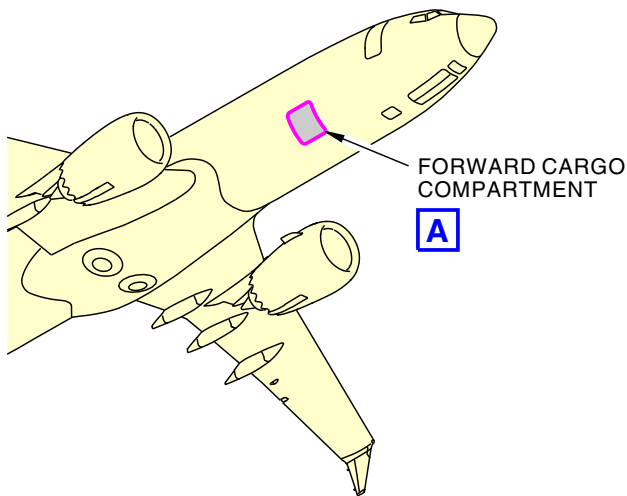
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D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Page 510
Jan 15/2023

BOEING
737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL



2414919 S00061536591_V2

Crew Oxygen System Pressure Indication
Figure 503/35-12-00-990-807 (Sheet 1 of 3)

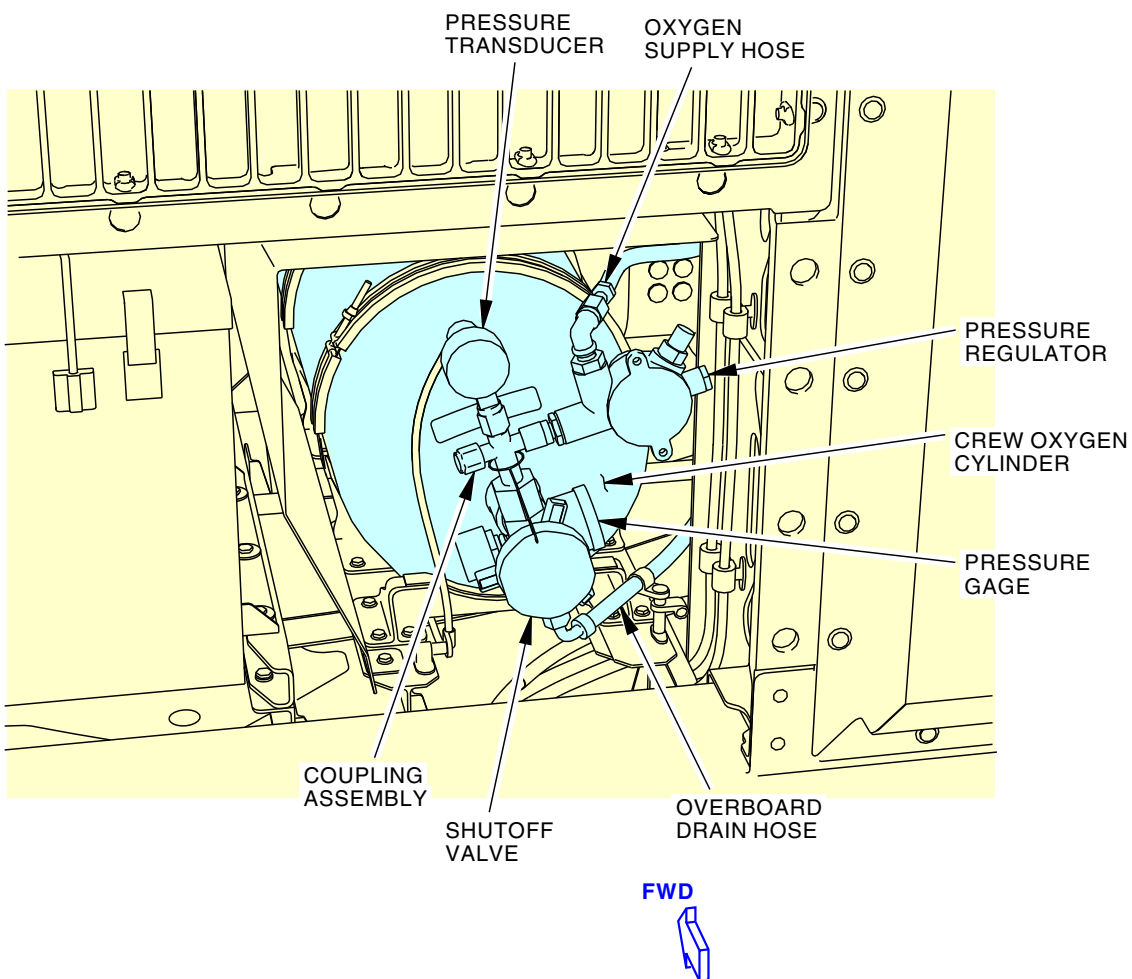
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-00

Page 511
Sep 15/2023



CREW OXYGEN CYLINDER
(EXAMPLE)

B

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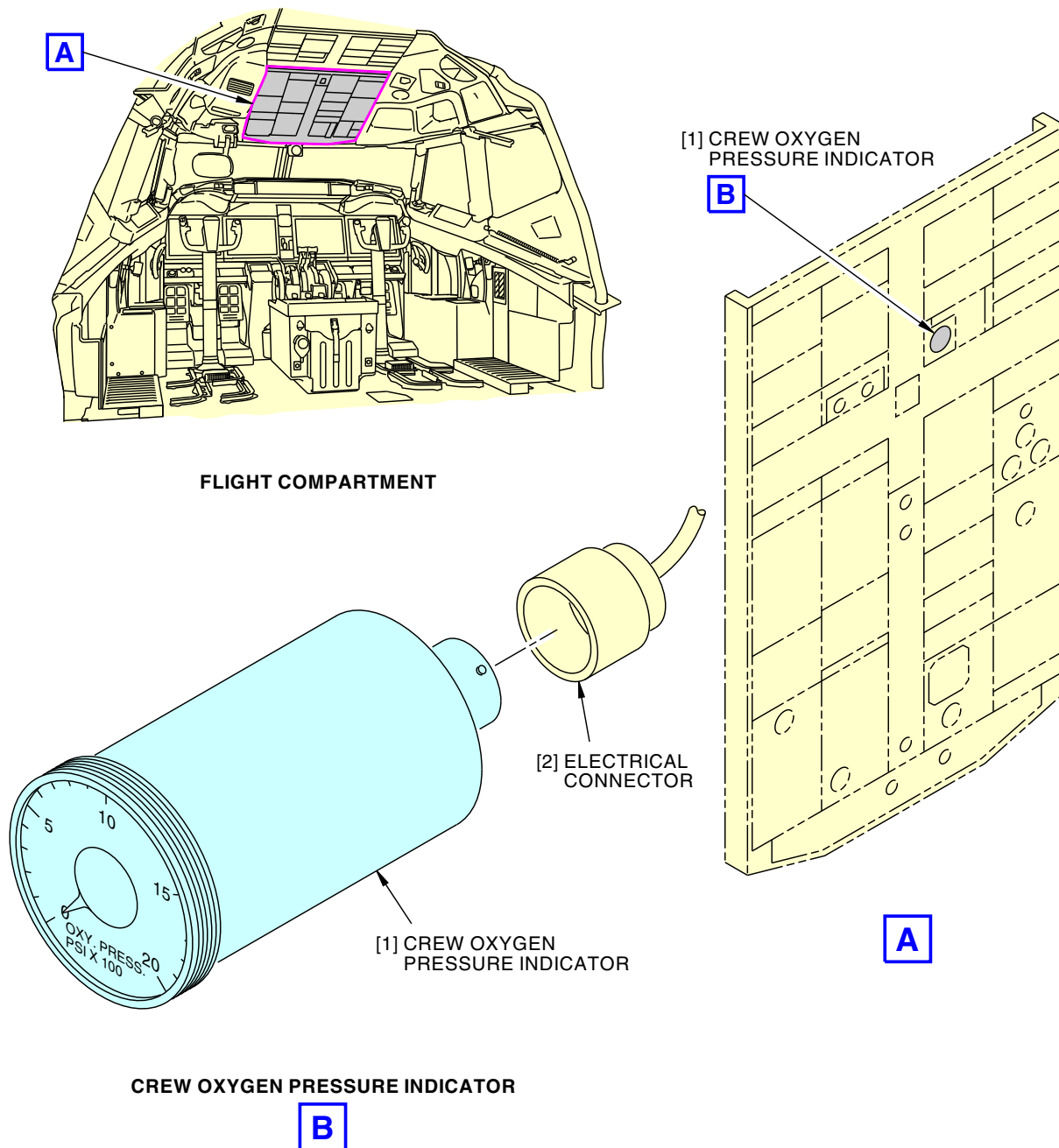
Crew Oxygen System Pressure Indication
Figure 503/35-12-00-990-807 (Sheet 2 of 3)

EFFECTIVITY
SIA ALL

35-12-00

D633AM101-SIA

Page 512
Sep 15/2021



2414921 S00061536593_V2

Crew Oxygen System Pressure Indication
Figure 503/35-12-00-990-807 (Sheet 3 of 3)

EFFECTIVITY
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-00

Page 513
Sep 15/2021



737-7/8/8200/9/10
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 12-15-21-200-801.

TASK 35-12-00-800-803

2. Crew Oxygen Operational Leak Check

(Figure 601)

A. **References**

Reference	Title
20-10-44-400-801	Lockwire, Cotter Pins, and Lockrings - 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 Visual Check (P/B 501)
35-12-00-800-801	Bleed the Crew Oxygen System Prior to System Maintenance or Repair (P/B 201)
50-11-01-000-801	Forward Cargo Compartment Forward Bulkhead Liner Removal (P/B 401)
50-11-01-400-801	Forward Cargo Compartment Forward Bulkhead Liner Installation (P/B 401)

B. **Consumable Materials**

Reference	Description	Specification
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	AMS3819 Class 1 Grade A or B Form 1 (Supersede BMS15-5 CL A)
G01912	Lockwire - MS20995NC32, Monel - 0.032 Inch (0.8128 mm) Diameter	NASM20995
G02479	Lockwire - MS20995CY20, Copper - 0.020 Inch (0.508 mm) Diameter	NASM20995
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.

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-00

Page 601
Sep 15/2023



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

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 (TASK 50-11-01-000-801).
 - (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 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 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) Close the shutoff valve one fourth of a turn.

EFFECTIVITY
SIA ALL

35-12-00

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Page 602
Sep 15/2023



**737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL**

- (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: Lockwire, Cotter Pins, and Lockrings - Installation, TASK 20-10-44-400-801.

- (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. The shutoff valve on the 806835-01 composite cylinder is fully open at approximately 6.5 revolutions.

- (b) Close the shutoff valve one forth of a turn.
 - (c) Use MS20995NC32 lockwire, G01912 or MS20995CY20 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 35-12-00-710-029

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

SUBTASK 35-12-00-410-004

- (3) Install the center bottom cargo compartment panel to the front of the cargo compartment (TASK 50-11-01-400-801).

————— **END OF TASK** —————

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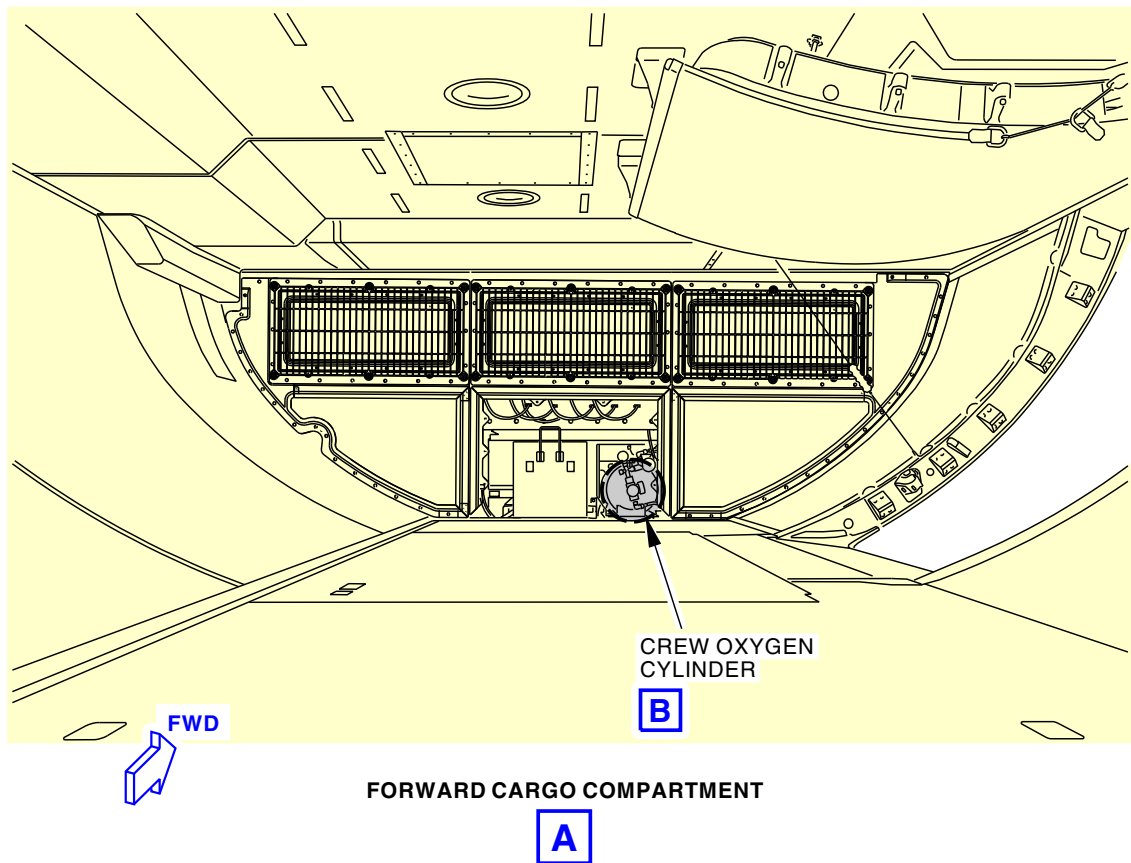
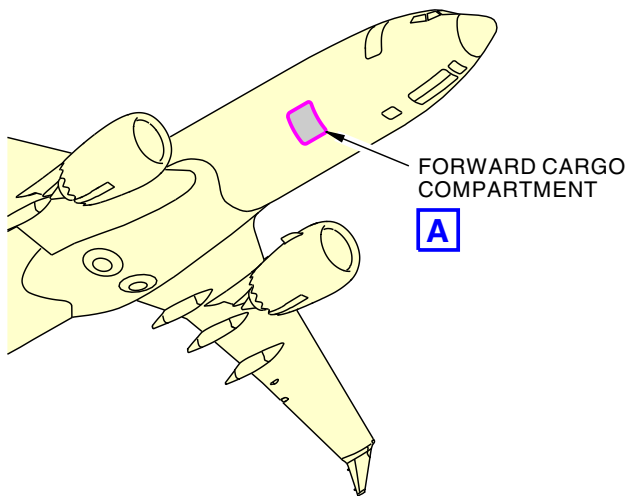
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-00

Page 603
Sep 15/2023

BOEING
737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL



2414919 S00061536591_V2

Crew Oxygen Cylinder Inspection
Figure 601/35-12-00-990-808 (Sheet 1 of 2)

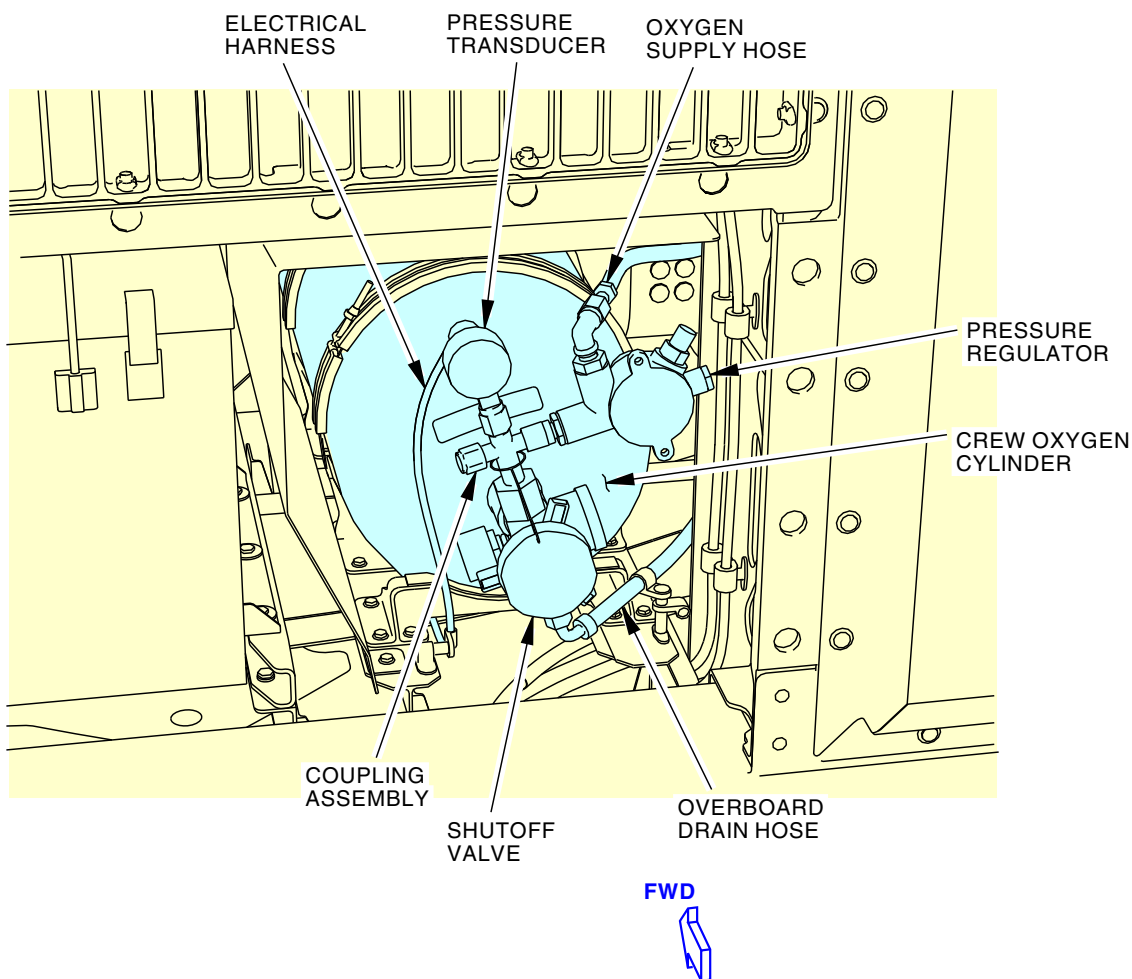
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35-12-00

Page 604
Sep 15/2023



CREW OXYGEN CYLINDER
(EXAMPLE)

B

2414922 S00061536596_V1

Crew Oxygen Cylinder Inspection
Figure 601/35-12-00-990-808 (Sheet 2 of 2)

EFFECTIVITY
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35-12-00

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Page 605
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

TASK 35-12-00-710-802

3. Crew Oxygen System Pressure Decay Leak Check

(Figure 602 or Figure 603 or Figure 604)

A. General

- (1) This task does a pressure decay check for the crew oxygen system. The procedure examines the oxygen tubing from the oxygen cylinder to the connection with the crew stowage boxes.

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 Part #: C35001-37 Supplier: 81205 Opt Part #: C35001-1 Supplier: 81205

D. Consumable Materials

Reference	Description	Specification
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	AMS3819 Class 1 Grade A or B Form 1 (Supersede BMS15-5 CL A)
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)

E. Location Zones

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

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-00

Page 606
Sep 15/2022



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

F. Prepare for the Leak Check

SUBTASK 35-12-00-910-007

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

SUBTASK 35-12-00-840-007

- (2) Make sure that all of the crew oxygen lines and components are connected and tightened to the correct torque.

SUBTASK 35-12-00-840-008

- (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

SUBTASK 35-12-00-480-001



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 that all of the components are specially cleaned for oxygen systems.

NOTE: Oxygen clean fittings come from a sealed container with a label for use on oxygen system installations. 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 35-12-00-860-015

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

SUBTASK 35-12-00-210-001

- (3) Make sure that 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 test equipment, SPL-1934 at the crew oxygen cylinder:
 - (a) Make sure that the shutoff valve on the crew oxygen cylinder is closed.



USE TWO WRENCHES TO LOOSEN THE FITTINGS. USE THE SECOND WRENCH TO HOLD THE FITTING IN ITS POSITION TO PREVENT DAMAGE TO THE FITTING.

- (b) Use two wrenches. Slowly loosen the elbow fitting on the pressure regulator and the supply line nut.



USE TWO WRENCHES TO TIGHTEN THE FITTINGS. USE THE SECOND WRENCH TO HOLD THE FITTING IN ITS POSITION TO PREVENT DAMAGE TO THE FITTING.

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

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-00

Page 607
Jan 15/2022



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

H. Pressure Check Equipment Set-up - Flight Compartment

SUBTASK 35-12-00-480-003

- (1) Do these steps to install the pressure test equipment, SPL-1934 at the applicable stowage box:
 - (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) Do this task to install a cap on the open connector fitting at the bottom of each stowage box location: Installation of Caps on Open Oxygen Lines, TASK 35-00-00-420-801.

NOTE: Oxygen clean fittings come from a sealed container with a label for oxygen systems. 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) Do this task to install a plug into the oxygen hose connection at each stowage box location: Installation of Caps on Open Oxygen Lines, TASK 35-00-00-420-801.

NOTE: Oxygen clean fittings come from a sealed container with a label for oxygen systems. 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 unwanted movement when pressure is applied to the system.

I. Crew Oxygen Pressure Leak Check

SUBTASK 35-12-00-710-030



CAUTION

DO NOT APPLY MORE THAN 100 PSIG (689 KPA) PRESSURE TO THE OXYGEN SYSTEM. IF YOU APPLY MORE THAN 100 PSIG (689 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 of 80 ± 5 psig (552 ± 35 kPa).

SUBTASK 35-12-00-710-031

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

SUBTASK 35-12-00-710-032

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

EFFECTIVITY
SIA ALL

D633AM101-SIA

35-12-00

Page 608
Jan 15/2022



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-12-00-210-002

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

SUBTASK 35-12-00-970-001

- (5) Make sure that the pressure does not decrease by more than 7.5 psig (51.7 kPa) during the 30 minute time period.

SUBTASK 35-12-00-360-001

- (6) If the leakage is less than 7.5 psig (51.7 kPa), the system is satisfactory.

SUBTASK 35-12-00-360-002

- (7) If the leakage is more than 7.5 psig (51.7 kPa), 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 7.5 psig (51.7 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

SUBTASK 35-12-00-080-002

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

SUBTASK 35-12-00-410-005

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

SUBTASK 35-12-00-410-006

- (3) Do these steps to install the first observer's mask stowage panels:
 - (a) Connect the oxygen hose connection to the fitting on the oxygen mask stowage cup(s).
 - (b) Install the oxygen mask stowage panels at the first observer's station.
 - (c) Tighten the four quarter-turn fasteners on the oxygen mask stowage panels.
 - (d) Do this task: Crew Oxygen Mask Stowage, TASK 35-12-85-910-801.

K. Pressure Check Equipment Removal - Crew Oxygen Cylinder

SUBTASK 35-12-00-020-001

- (1) Do these steps to disconnect the pressure 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 IN ITS POSITION 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).

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-00

Page 609
Jan 15/2022



**737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL**



CAUTION

USE TWO WRENCHES TO TIGHTEN THE FITTINGS. USE THE SECOND WRENCH TO HOLD THE FITTING IN ITS POSITION 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.
- (c) Remove the pressure test equipment, SPL-1934 from the airplane.

SUBTASK 35-12-00-080-003

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

SUBTASK 35-12-00-840-009

- (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
SIA ALL

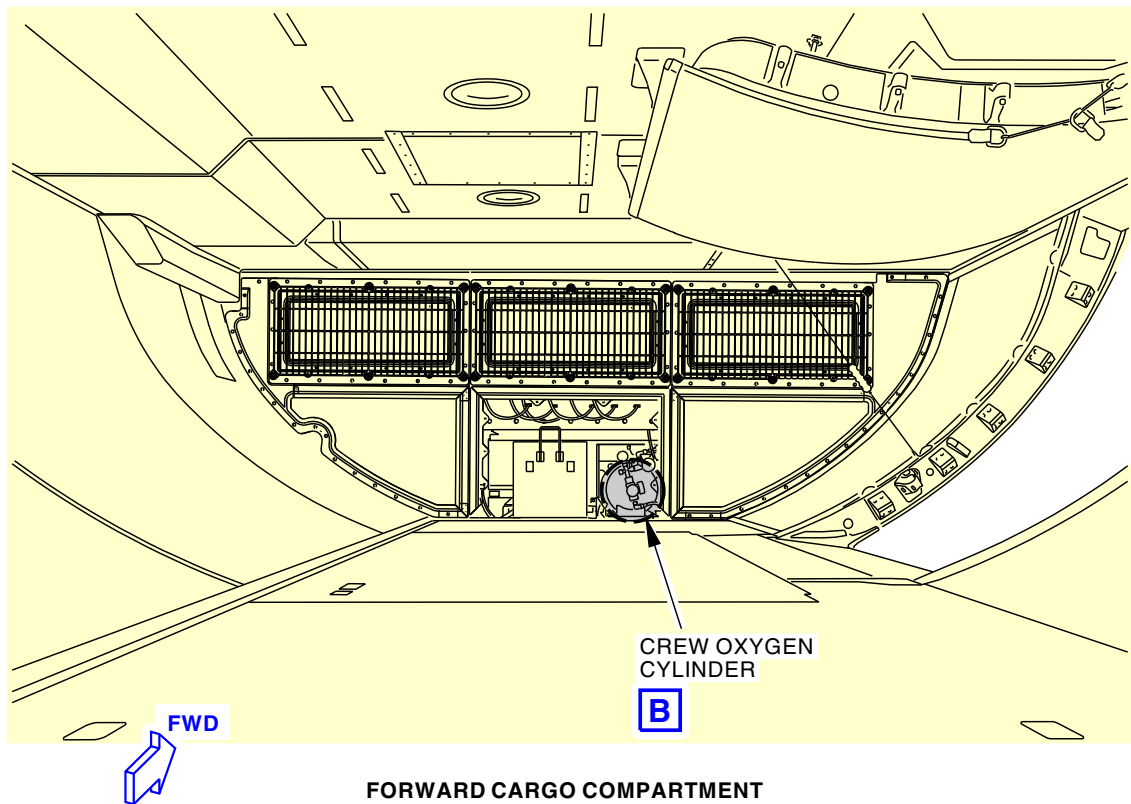
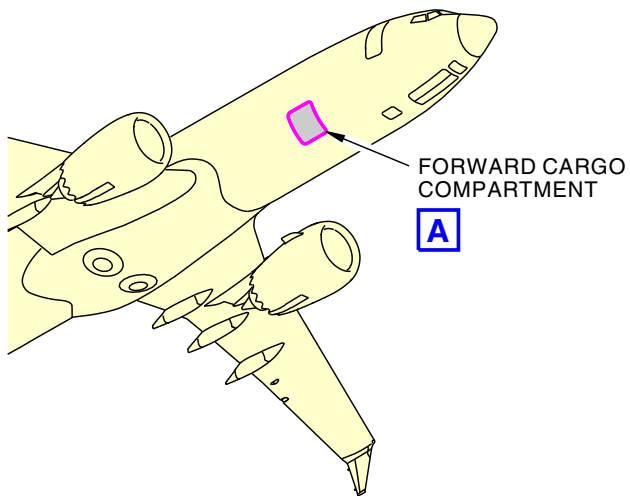
D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-00

Page 610
Jan 15/2022

BOEING
737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL



2414923 S00061536598_V2

Crew Oxygen Pressure Leak Check (Equipment Setup at the Oxygen Cylinder)
Figure 602/35-12-00-990-809 (Sheet 1 of 2)

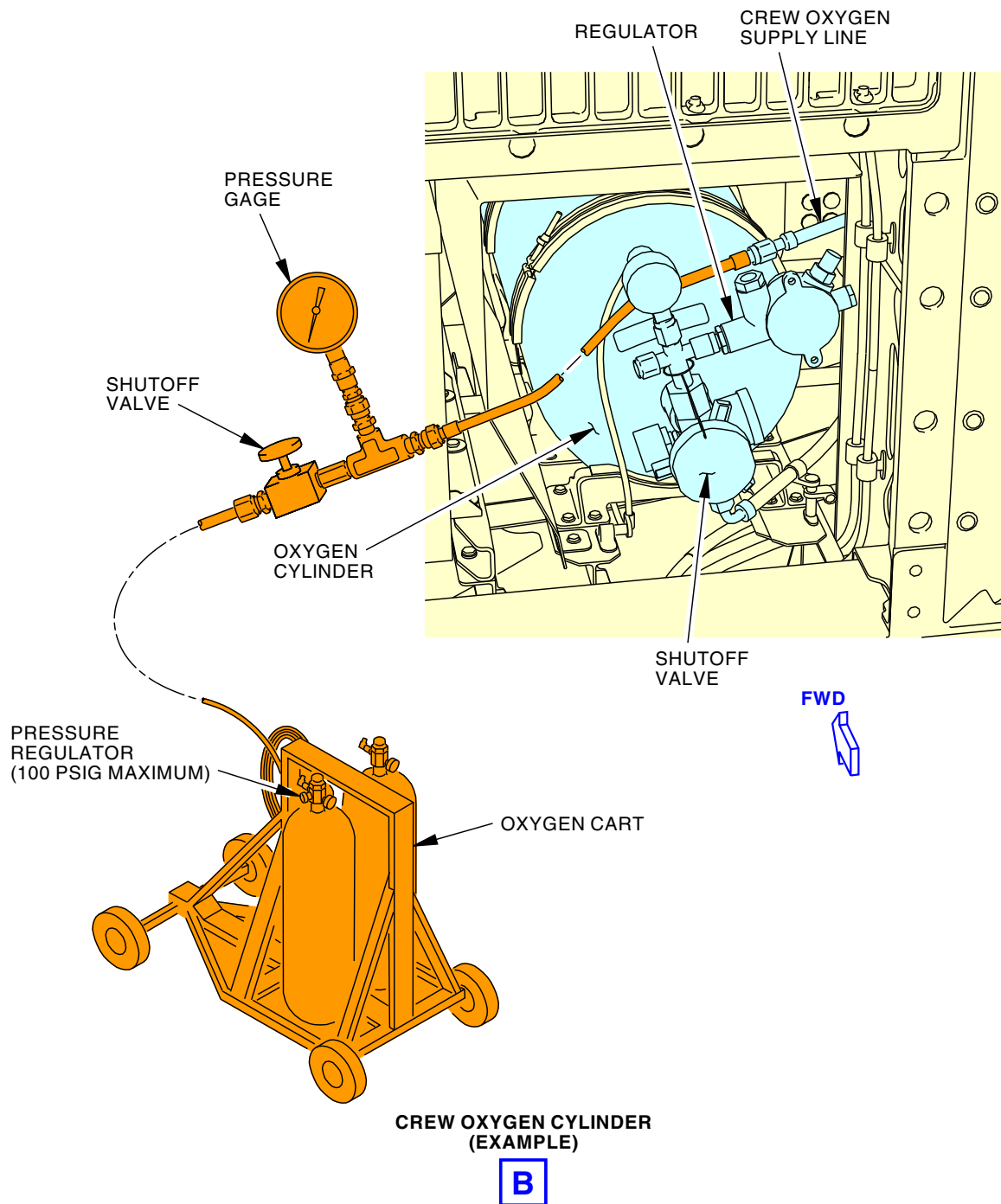
EFFECTIVITY
SIA ALL

35-12-00

D633AM101-SIA

Page 611
Sep 15/2023

ECCN 9E991 BOEING PROPRIETARY - See title page for details



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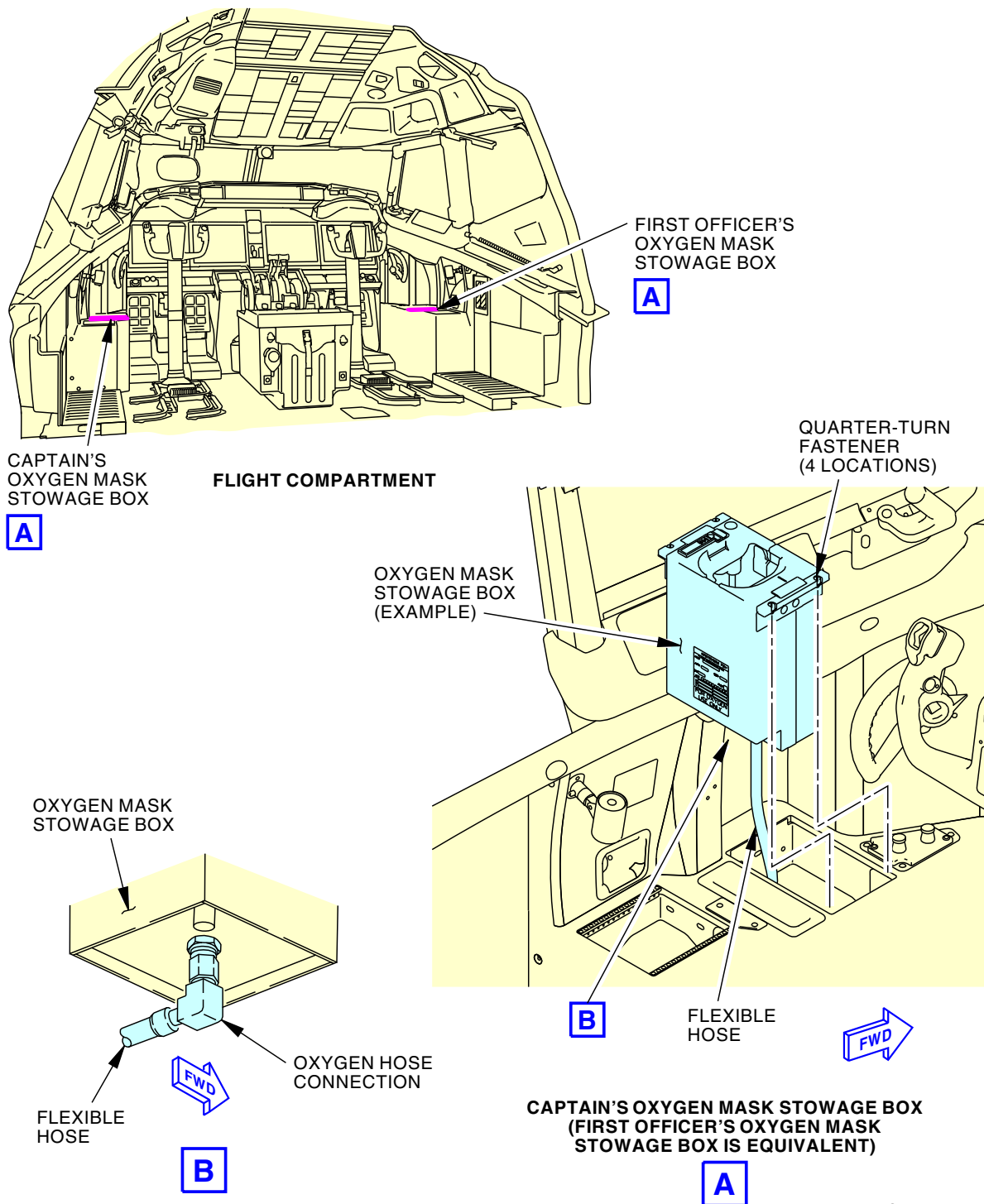
Crew Oxygen Pressure Leak Check (Equipment Setup at the Oxygen Cylinder)
Figure 602/35-12-00-990-809 (Sheet 2 of 2)

EFFECTIVITY
SIA ALL

35-12-00

D633AM101-SIA

Page 612
Sep 15/2021



2414925 S00061536600_V1

Crew Oxygen Pressure Leak Check (Equipment Setup in the Flight Compartment)
Figure 603/35-12-00-990-810

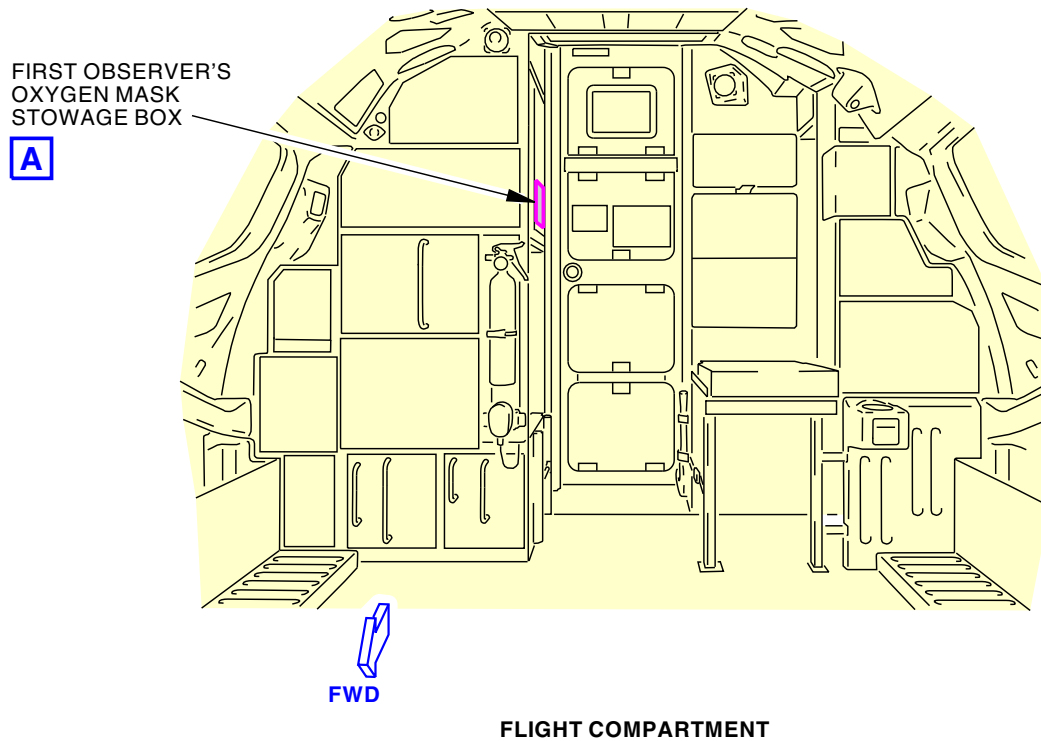
EFFECTIVITY
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D633AM101-SIA

35-12-00

Page 613
Sep 15/2021

BOEING
737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL



2414926 S00061536601_V1

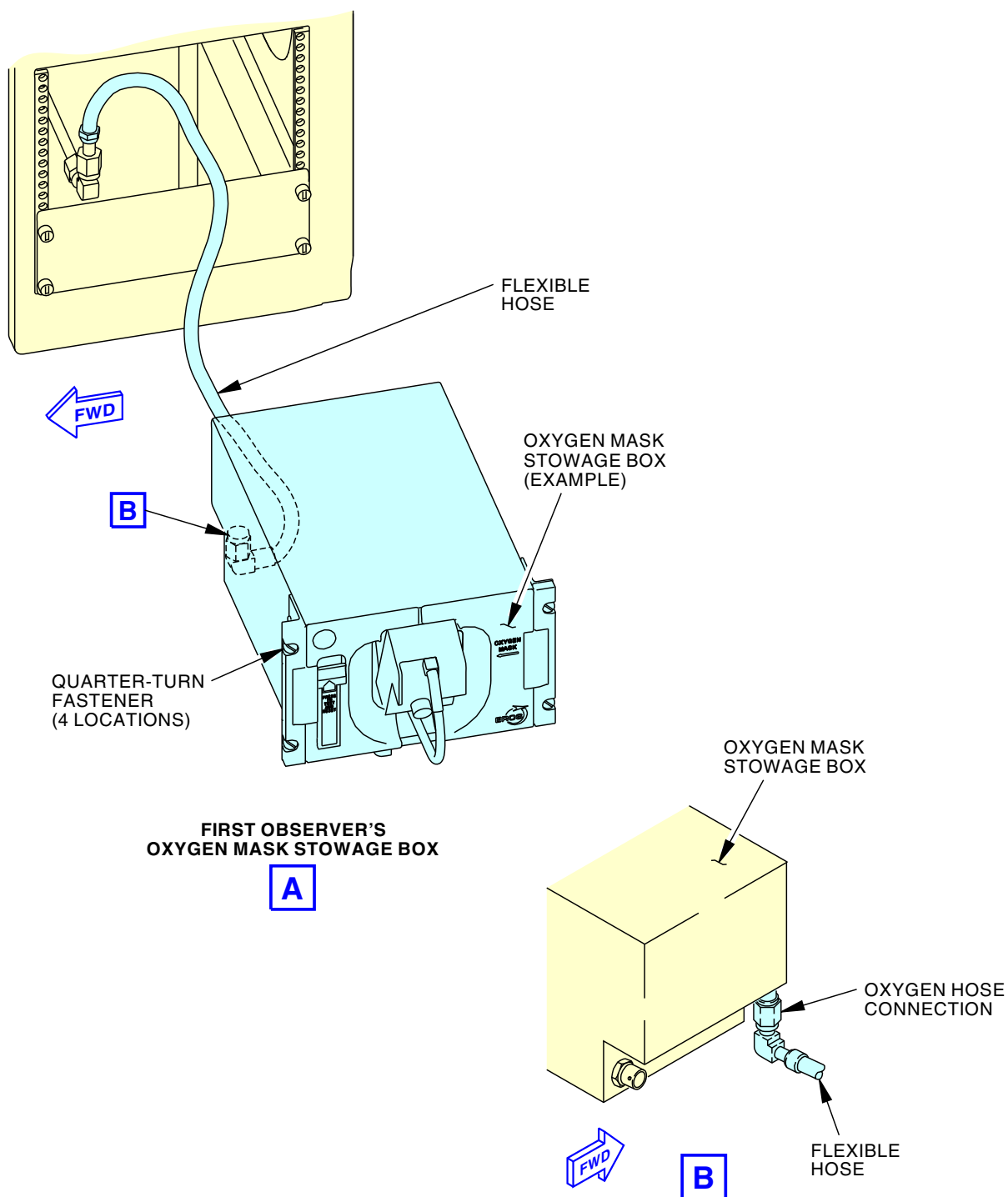
First Observer's Oxygen Pressure Leak Check
Figure 604/35-12-00-990-811 (Sheet 1 of 2)

EFFECTIVITY
SIA ALL

D633AM101-SIA

35-12-00

Page 614
Sep 15/2021



2414927 S00061536602_V1

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

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-00

Page 615
Sep 15/2021



737-7/8/8200/9/10
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)
50-11-01-000-801	Forward Cargo Compartment Forward Bulkhead Liner Removal (P/B 401)
50-11-01-400-801	Forward Cargo Compartment Forward Bulkhead Liner Installation (P/B 401)

B. Location Zones

Zone	Area
122	Forward Cargo Compartment - Right

C. Crew Oxygen Cylinder Correct Installation and Condition Check

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 35-12-00-010-002

- (2) Remove the center bottom cargo compartment panel from the front of the cargo compartment to get access to the crew oxygen cylinder (TASK 50-11-01-000-801).

SUBTASK 35-12-00-211-001

- (3) Do a check of these components to make sure they are installed correctly.
 - (a) Make sure that 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 that the pressure regulator is tightly installed.
 - (c) Make sure that the oxygen supply hose and overboard drain hose are installed correctly
 - (d) Make sure that the coupling assembly is installed correctly.
 - (e) Make sure that the oxygen cylinder is correctly installed to the support brackets and straps.

SUBTASK 35-12-00-211-002

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

SUBTASK 35-12-00-211-003

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

NOTE: You must contact your flight operations organization for the minimum dispatch pressures for each route flown. Oxygen pressure tables versus descent profiles are found in the Flight and Performance Planning Manual (FPPM). The necessary minimum dispatch pressure for the crew oxygen cylinders changes with each specified flight routing. These factors are used to calculate the minimum dispatch pressure:

EFFECTIVITY
SIA ALL

35-12-00

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Page 616
Sep 15/2023



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

The quantity and capacity of the installed cylinders
The number of crew and observers on the flight
The worst-case descent profile for the specified route.

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

SUBTASK 35-12-00-410-007

- (6) Install the center bottom cargo compartment panel to the front of the cargo compartment (TASK 50-11-01-400-801).

———— **END OF TASK** ————

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-00

Page 617
Sep 15/2023



737-7/8/8200/9/10
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) Obey the safety precautions and maintenance practices for the oxygen system before you do the maintenance (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 that 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):
 - (a) Disconnect the electrical connector from the transducer [2].

EFFECTIVITY
SIA ALL

35-12-11

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Page 401
Sep 15/2021



**737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL**

- (b) Disconnect the crew oxygen supply line from the elbow [3] on the regulator/transducer assembly [1].
- (c) Loosen the 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



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 in 5 minutes, put a cap on the open oxygen line (TASK 35-00-00-420-801).

NOTE: Oxygen clean fittings come from a sealed container with a label for use on the oxygen system. 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
SIA ALL

D633AM101-SIA

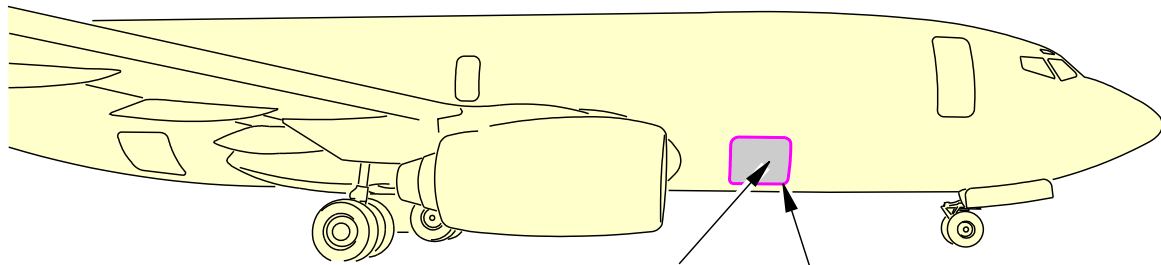
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35-12-11

Page 402
Sep 15/2021



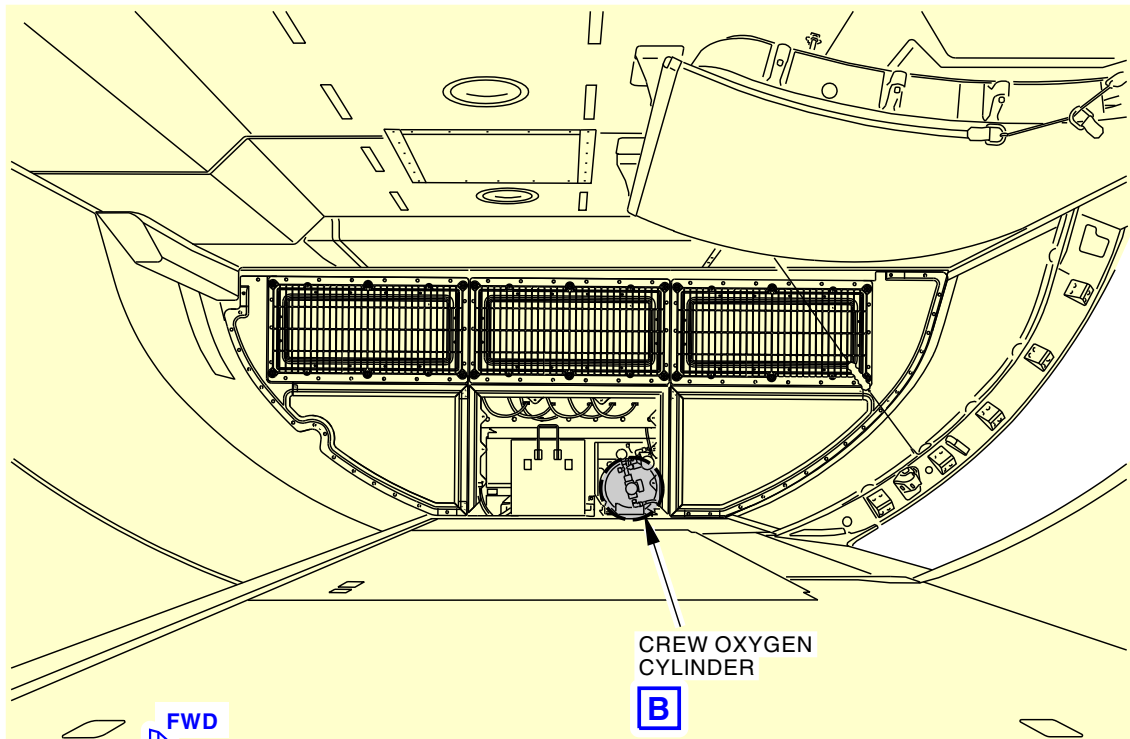
737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL



FORWARD CARGO
COMPARTMENT

FORWARD CARGO
DOOR, 821

A



CREW OXYGEN
CYLINDER

B

FWD



FORWARD CARGO COMPARTMENT

A

2414930 S00061536609_V2

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

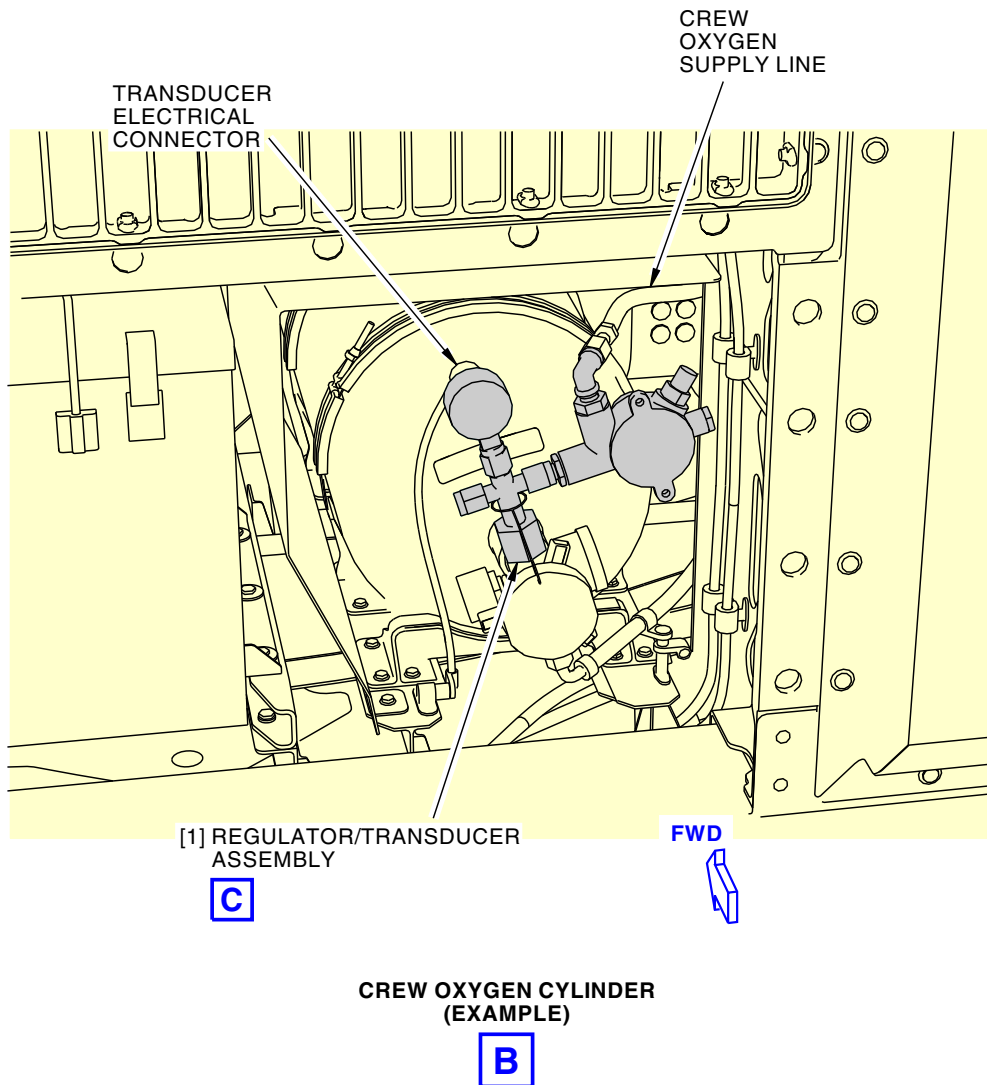
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D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-11

Page 403
Sep 15/2023



2414931 S00061536610_V1

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

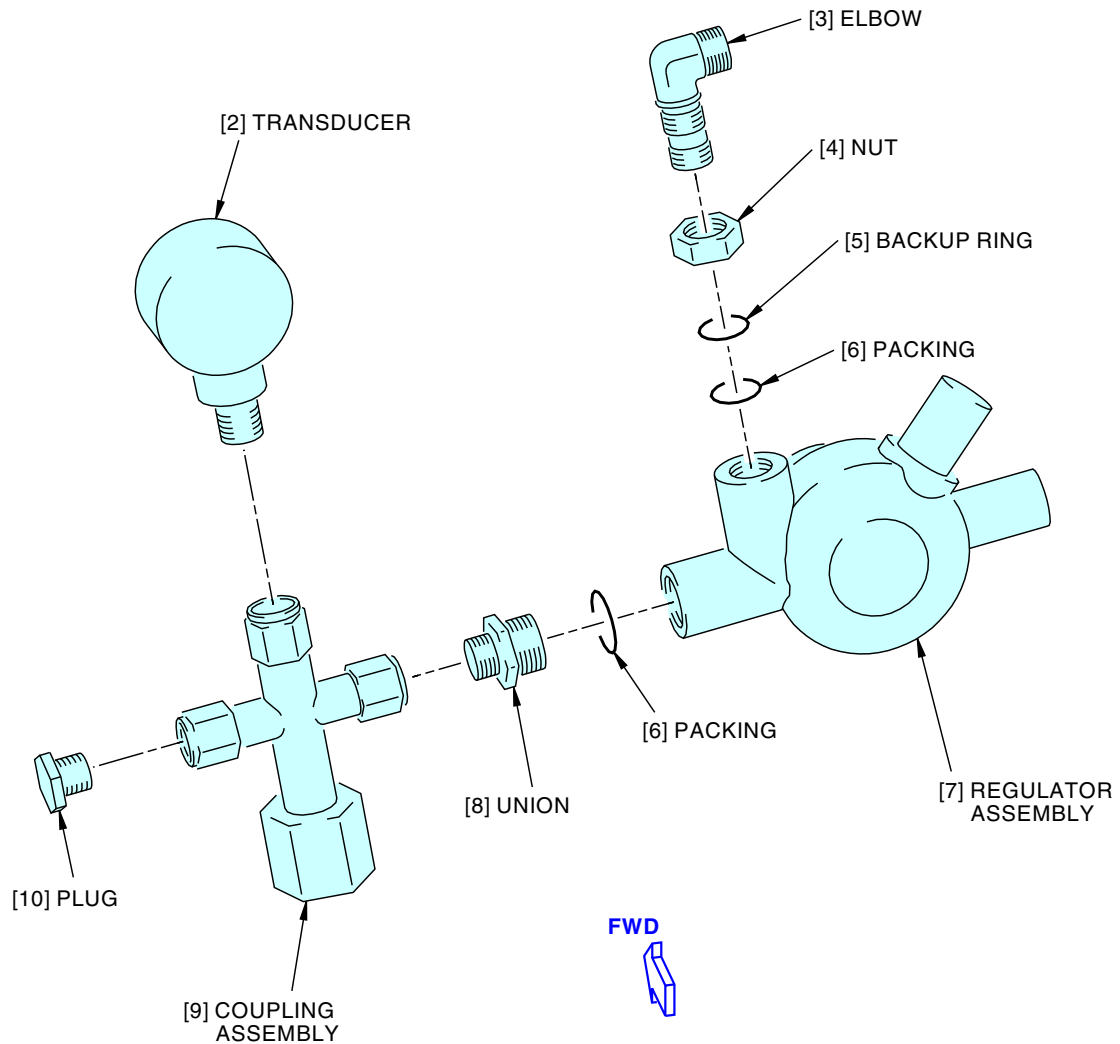
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D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-11

Page 404
Sep 15/2021



REGULATOR/TRANSDUCER ASSEMBLY



2414932 S00061536611_V1

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

EFFECTIVITY
SIA ALL

35-12-11

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Page 405
Sep 15/2021



737-7/8/8200/9/10
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 to the crew oxygen cylinder.

B. References

Reference	Title
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-13964	Wrench - Torque, 200 to 1000 in-lb

D. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Transducer assembly	35-12-52-10-035	SIA ALL

E. Location Zones

Zone	Area
122	Forward Cargo Compartment - Right

F. Procedure

SUBTASK 35-12-11-910-002

- (1) Obey the safety precautions and maintenance practices for the oxygen system before you do the maintenance (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



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 container with a label for use in the oxygen system. 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 caps from the crew oxygen cylinder.
- (b) Remove the caps from the regulator/transducer assembly [1].
- (c) Install the regulator/transducer assembly [1] to the supply port on the crew oxygen cylinder.
- 1) Tighten the nut of the coupling assembly [9] with torque wrench, STD-13964 to 375 ±25 in-lb (42 ±3 N·m).

EFFECTIVITY
SIA ALL

35-12-11

D633AM101-SIA

Page 406
Sep 15/2021



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

- (d) Install the crew oxygen supply line to the elbow [3] on the regulator/transducer assembly [1].
 - 1) Tighten the nut on the crew oxygen supply line to 170 in-lb (19 N·m) to 200 in-lb (23 N·m).
- (e) Connect the electrical connector to the transducer [2].

G. Do the Crew Oxygen Cylinder Restoration and 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.

H. Do a Check of the Electrical Connection

SUBTASK 35-12-11-860-006

- (1) 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

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

————— **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

D. Prepare to Remove the Components

SUBTASK 35-12-11-910-003

- (1) Obey the safety precautions and general instructions for the oxygen system before you do the maintenance (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.

EFFECTIVITY
SIA ALL

35-12-11

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Page 407
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

E. Remove the Transducer from the Regulator/Transducer Assembly

SUBTASK 35-12-11-020-003



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 35-12-11-020-004



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
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-11

Page 408
Sep 15/2021



737-7/8/8200/9/10
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.

- (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 35-12-11-020-005

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

EFFECTIVITY
SIA ALL

35-12-11

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Page 409
Sep 15/2021



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-12-11-020-006



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, Flareless Tube, 1/2-20 Thread

D. Consumable Materials

Reference	Description	Specification
D00173	Grease - Aircraft and Instrument, Fuel And Oxidizer Resistant	MIL-PRF-27617 (Supersedes MIL-G-27617)
D50063	Grease - Perfluoropolyether, fuel and oxygen resistant - Krytox 240AC	MIL-PRF- 27617 Type III

E. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
2	Transducer	35-12-21-01-005	SIA ALL
6	Packing	35-12-11-01-015	SIA ALL
7	Regulator assembly	35-12-11-01-035	SIA ALL

EFFECTIVITY
SIA ALL

35-12-11

D633AM101-SIA

Page 410
Sep 15/2021



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

(Continued)

AMM Item	Description	AIPC Reference	AIPC Effectivity
9	Coupling assembly	35-12-21-01-015	SIA ALL

F. Location Zones

Zone	Area
122	Forward Cargo Compartment - Right

G. Prepare to Install the Components

SUBTASK 35-12-11-910-004

- (1) Obey the safety precautions and general instructions for the oxygen system before you do the maintenance (TASK 35-00-00-910-801).

H. Install the Tubing Components on the Regulator Assembly

SUBTASK 35-12-11-420-002



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.



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 Flareless Tube Cap, 1/2-20 Thread, STD-1130, if necessary.
- (b) Apply a thin layer of grease, D00173 or Krytox 240AC perfluoropolyether grease, D50063 (optional), 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



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
SIA ALL

35-12-11

D633AM101-SIA

Page 411
Sep 15/2021

737-7/8/8200/9/10
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.

- (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.

- (a) Remove the protective Flareless Tube Cap, 1/2-20 Thread, 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 or Krytox 240AC perfluoropolyether grease, D50063 (optional), 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 Flareless Tube Cap, 1/2-20 Thread, STD-1130, if necessary.
- (b) Loosely connect the coupling assembly [9] and the regulator assembly [7] at the union [8] on the inlet port.

EFFECTIVITY
SIA ALL

35-12-11

D633AM101-SIA

Page 412
Sep 15/2021



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

- (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



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.



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 Flareless Tube Cap, 1/2-20 Thread, 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



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.



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 Flareless Tube Cap, 1/2-20 Thread, STD-1130, if necessary.
- (b) Loosely install the transducer [2].

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-11

Page 413
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

- (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
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-11

Page 414
Sep 15/2021



737-7/8/8200/9/10
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

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

SUBTASK 35-12-21-010-001

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

EFFECTIVITY
SIA ALL

35-12-21

D633AM101-SIA

Page 401
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-12-21-860-002

- (5) Make sure that 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 YOU DO NOT USE WRENCHES 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
SIA ALL

35-12-21

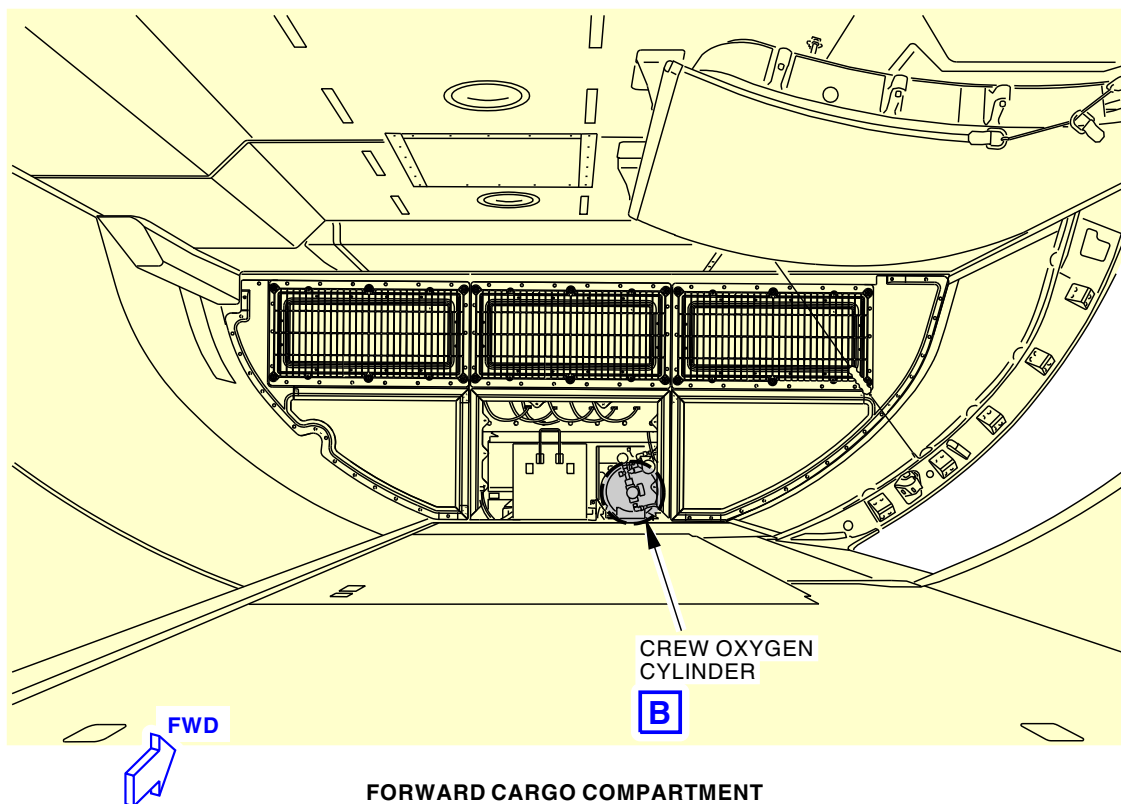
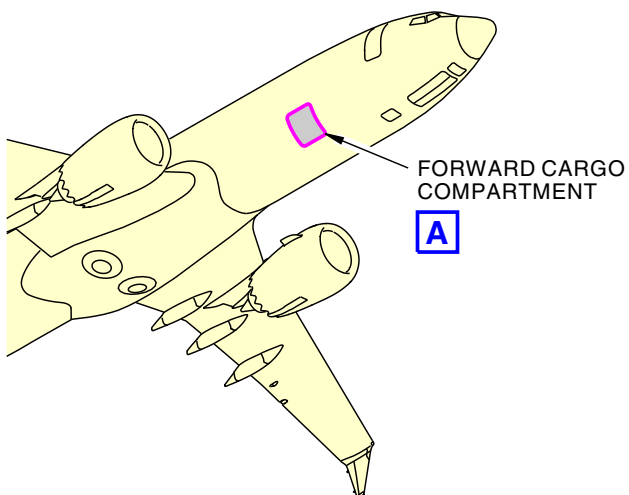
D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Page 402
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL



2414933 S00061536618_V2

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

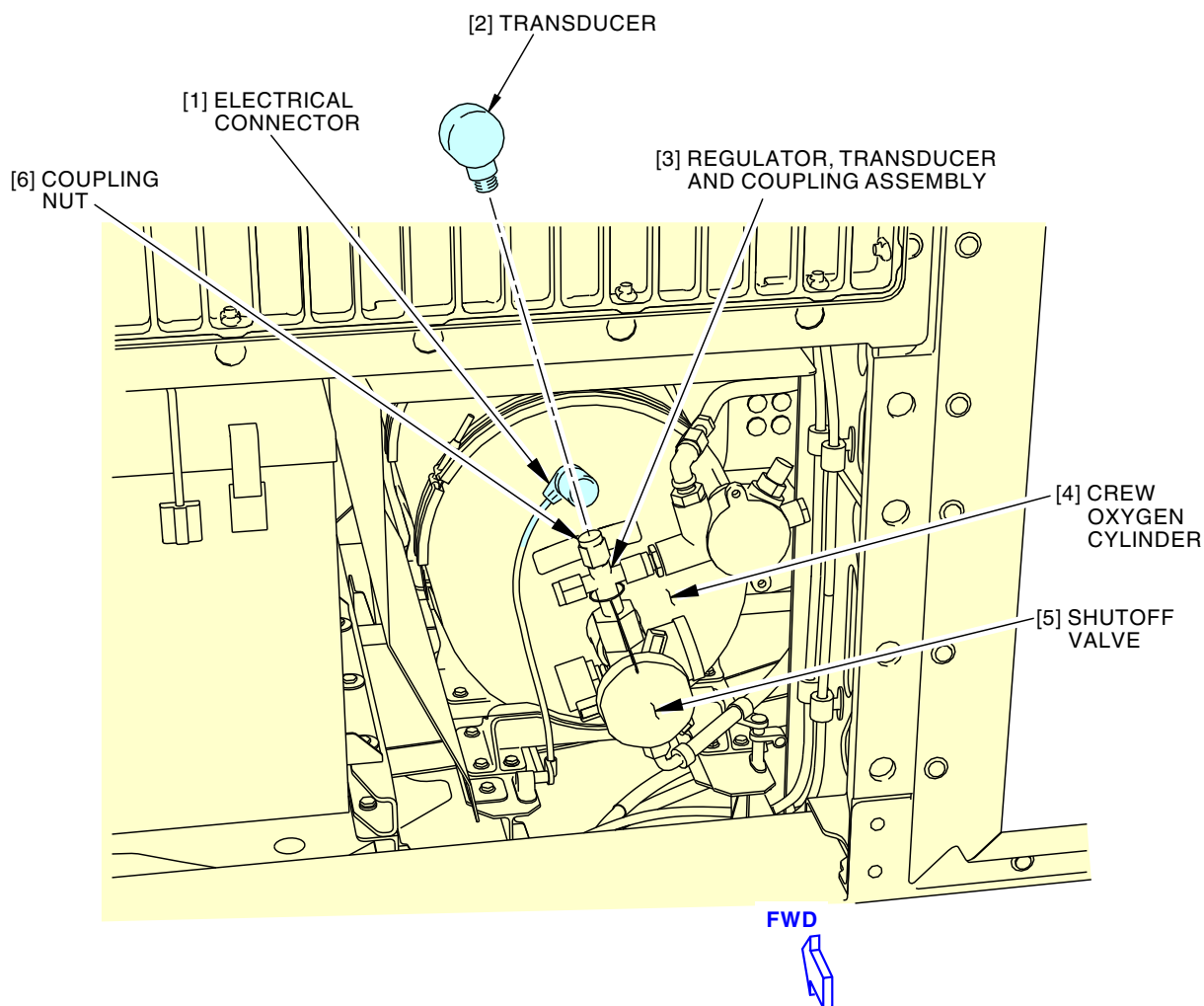
EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-21

Page 403
Sep 15/2023



CREW OXYGEN CYLINDER
(EXAMPLE)

B

2414934 S00061536619_V1

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

EFFECTIVITY
SIA ALL

35-12-21

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Page 404
Sep 15/2021



737-7/8/8200/9/10
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
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, Flareless Tube, 1/2-20 Thread
STD-1131	Plug - Protective, Flareless Tube, 1/2-20 Thread

D. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
2	Transducer	35-12-21-01-005	SIA ALL

E. Location Zones

Zone	Area
122	Forward Cargo Compartment - Right

F. Procedure

SUBTASK 35-12-21-910-002

- (1) Obey the safety precautions and general instructions for the oxygen system before you do the maintenance (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.

- (a) Remove the protective Flareless Tube Cap, 1/2-20 Thread, STD-1130, and Flareless Tube Plug, 1/2-20 Thread, STD-1131, from the crew oxygen cylinder [4].

EFFECTIVITY
SIA ALL

35-12-21

D633AM101-SIA

Page 405
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL



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.

- (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 coupling nut [6] that attaches the pressure transducer [2] to the regulator, transducer and coupling assembly [3] 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 35-12-21-860-003

- (1) 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

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

————— **END OF TASK** —————

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-21

Page 406
Sep 15/2021



737-7/8/8200/9/10
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**

Zone	Area
212	Flight Compartment - Right

B. **Procedure**

SUBTASK 35-12-22-020-001

- (1) Do these steps to remove the crew oxygen pressure indicator [1]:
- (a) 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

- (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 crew oxygen pressure indicator [1].
- (d) Disconnect the electrical connector [2] from the crew oxygen pressure indicator [1].
- (e) Loosen the release screw on the clamp that holds the crew oxygen pressure indicator [1].
- (f) Remove the crew oxygen pressure indicator [1] from the P5-14 panel.

———— **END OF TASK** ————

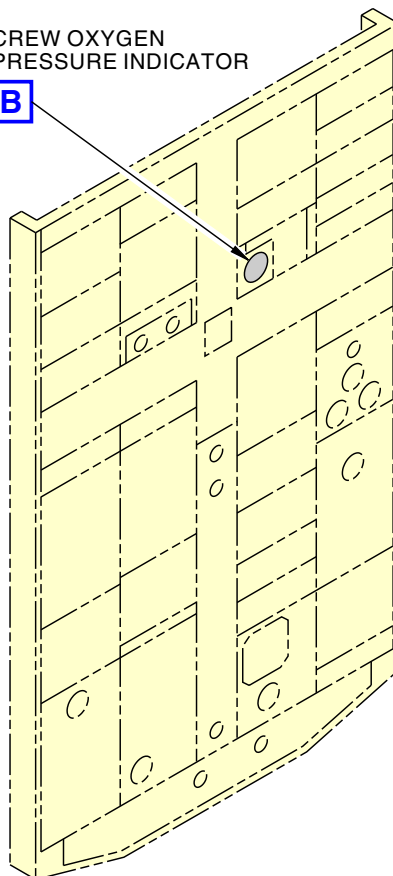
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-22

Page 401
Sep 15/2021



CREW OXYGEN PRESSURE INDICATOR



2414921 S00061536593 V2

Crew Oxygen Pressure Indicator Installation

Figure 401/35-12-22-990-801

— EFFECTIVITY
SIA ALL

35-12-22

Page 402
Sep 15/2021

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details



737-7/8/8200/9/10
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 Visual Check (P/B 501)

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Crew oxygen pressure indicator	31-11-95-01-010	SIA 001-014
		31-11-95-02-010	SIA 015-999
		35-12-22-01-050	SIA ALL

C. Location Zones

Zone	Area
212	Flight Compartment - Right

D. Procedure

SUBTASK 35-12-22-400-001

- (1) Do these steps to install the crew oxygen pressure indicator [1]:
 - (a) Put the crew oxygen pressure indicator [1] in its position on the P5-14 overhead panel.
 - (b) Tighten the release screw on the clamp that holds the crew oxygen pressure indicator [1].
 - (c) Connect the electrical connector [2] to the crew oxygen pressure indicator [1].
 - (d) Carefully put the P5-14 overhead panel onto the P5 panel.
 - (e) Tighten the 4 quarter-turn fasteners that hold the P5-14 overhead panel.
 - (f) Remove the safety tags and close these circuit breakers:

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 35-12-22-720-001

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

————— **END OF TASK** —————

EFFECTIVITY
SIA ALL

35-12-22

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Page 403
Sep 15/2022



737-7/8/8200/9/10
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 overboard discharge port is found on the bottom right side of the fuselage skin, aft of the electronic equipment access door.
- C. 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
12-15-21-600-804	Crew Oxygen Cylinder Replacement (P/B 301)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)

B. **Tools/Equipment**

Reference	Description
STD-1464	Pliers - Snap Ring

C. **Location Zones**

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

D. **Procedure**

SUBTASK 35-12-51-910-001

- (1) Obey the safety precautions and general instructions for the oxygen system before you do the maintenance (TASK 35-00-00-910-801).

SUBTASK 35-12-51-200-001

- (2) Measure the pressure of the crew oxygen cylinder.
- (a) Only do the task to replace the crew oxygen cylinder if the pressure shows that it is empty.

NOTE: The disk can be missing for causes other than oxygen cylinder discharge.

SUBTASK 35-12-51-410-001

- (3) To remove the crew oxygen cylinder, do this task: Crew Oxygen Cylinder Replacement, TASK 12-15-21-600-804.

SUBTASK 35-12-51-010-001

- (4) Find the overboard discharge port [1], on the right side of the fuselage, aft of the electronic equipment access door.

SUBTASK 35-12-51-020-001

- (5) Remove the snap ring [2] with snap ring pliers, STD-1464.
- (a) Keep the snap ring [2] for the installation.

SUBTASK 35-12-51-020-002

- (6) Remove the green indicator disk [3], or parts from the overboard discharge port [1].

EFFECTIVITY
SIA ALL

D633AM101-SIA

35-12-51

Page 401
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

- (a) Discard the green indicator disk [3].

———— **END OF TASK** ————

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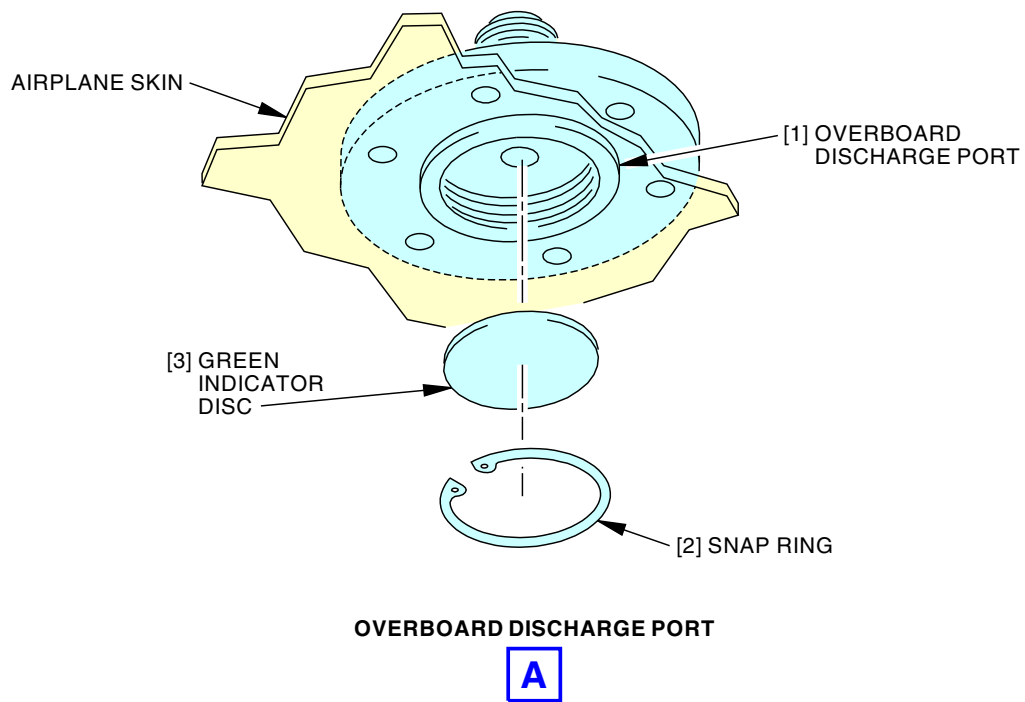
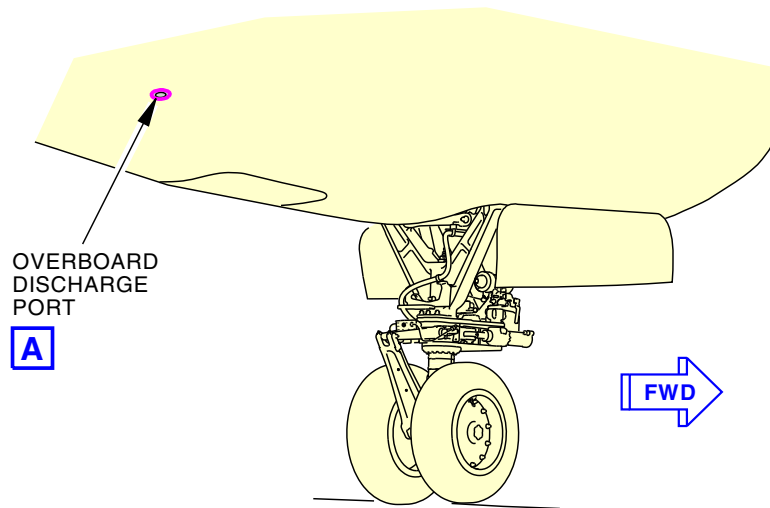
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-51

Page 402
Sep 15/2021

BOEING
737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL



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

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ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-51

Page 403
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

TASK 35-12-51-400-801

3. Discharge Indicator Disk Installation

(Figure 401)

A. References

Reference	Title
12-15-21-600-804	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
2	Snap ring	35-12-51-01-005	SIA ALL
3	Indicator disk	35-12-51-01-010	SIA ALL

C. Location Zones

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

D. Procedure

SUBTASK 35-12-51-910-002

- (1) Obey the safety precautions and general instructions for the oxygen system before you do the maintenance (TASK 35-00-00-910-801).

SUBTASK 35-12-51-410-002

- (2) Find the overboard discharge port [1], on the right side of the fuselage skin, aft of the main equipment center door.

NOTE: The overboard discharge port [1] is not removed from the airplane.

SUBTASK 35-12-51-420-001

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

SUBTASK 35-12-51-420-002

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

SUBTASK 35-12-51-210-001

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

SUBTASK 35-12-51-420-003

- (6) Install the crew oxygen cylinder if it was removed (TASK 12-15-21-600-804).

————— **END OF TASK** —————

EFFECTIVITY
SIA ALL

35-12-51

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Page 404
Sep 15/2021



737-7/8/8200/9/10
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)

B. **Location Zones**

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

C. **Stow the Crew Oxygen Masks (EROS MF10/MF20 and NASAL MASKS)**

SUBTASK 35-12-85-910-001

- (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 35-12-85-010-001

- (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 PERSONNEL 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
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D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-85

Page 201
Sep 15/2021



737-7/8/8200/9/10
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.

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 35-12-85-420-001

- (5) Open the mask stowage box doors.

SUBTASK 35-12-85-420-002

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

SUBTASK 35-12-85-420-003

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

SUBTASK 35-12-85-860-001

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

SUBTASK 35-12-85-860-002

- (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



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



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.

EFFECTIVITY
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D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-85

Page 202
Sep 15/2021



**737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL**

SUBTASK 35-12-85-530-006

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

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



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.

———— **END OF TASK** ————

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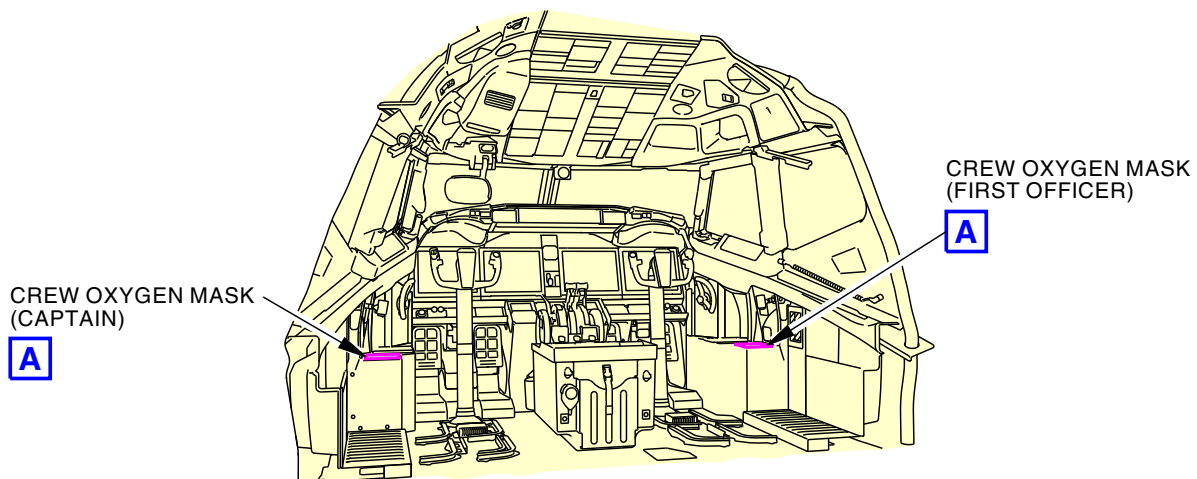
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35-12-85

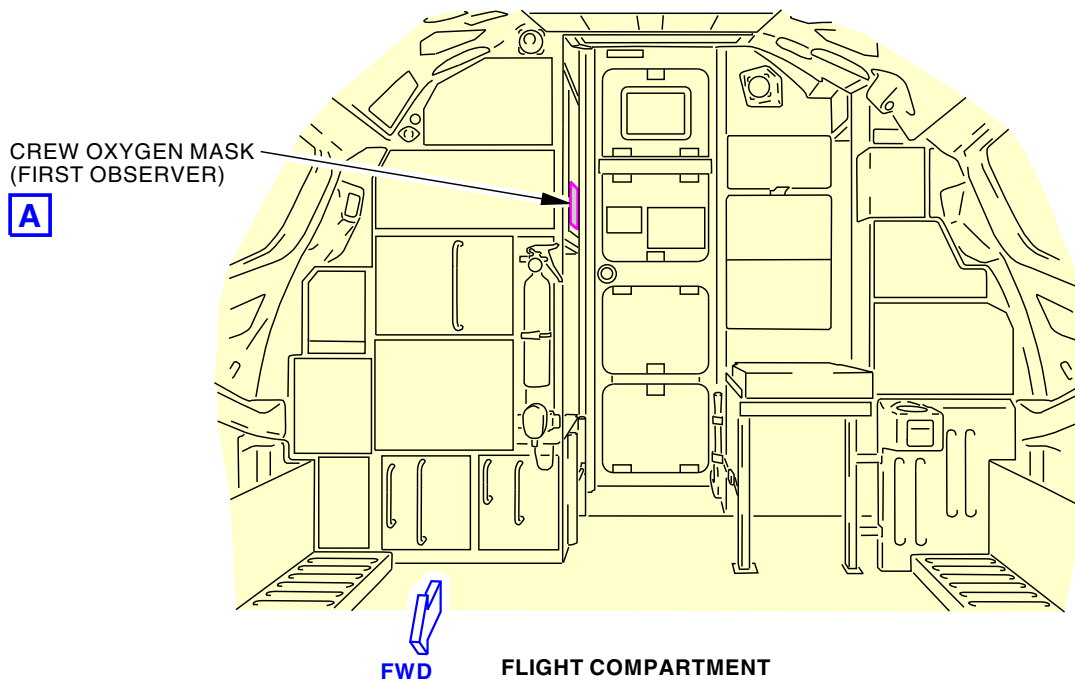
Page 203
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL



FLIGHT COMPARTMENT



FLIGHT COMPARTMENT

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Crew Oxygen Mask Maintenance Practices
Figure 201/35-12-85-990-801 (Sheet 1 of 3)

EFFECTIVITY
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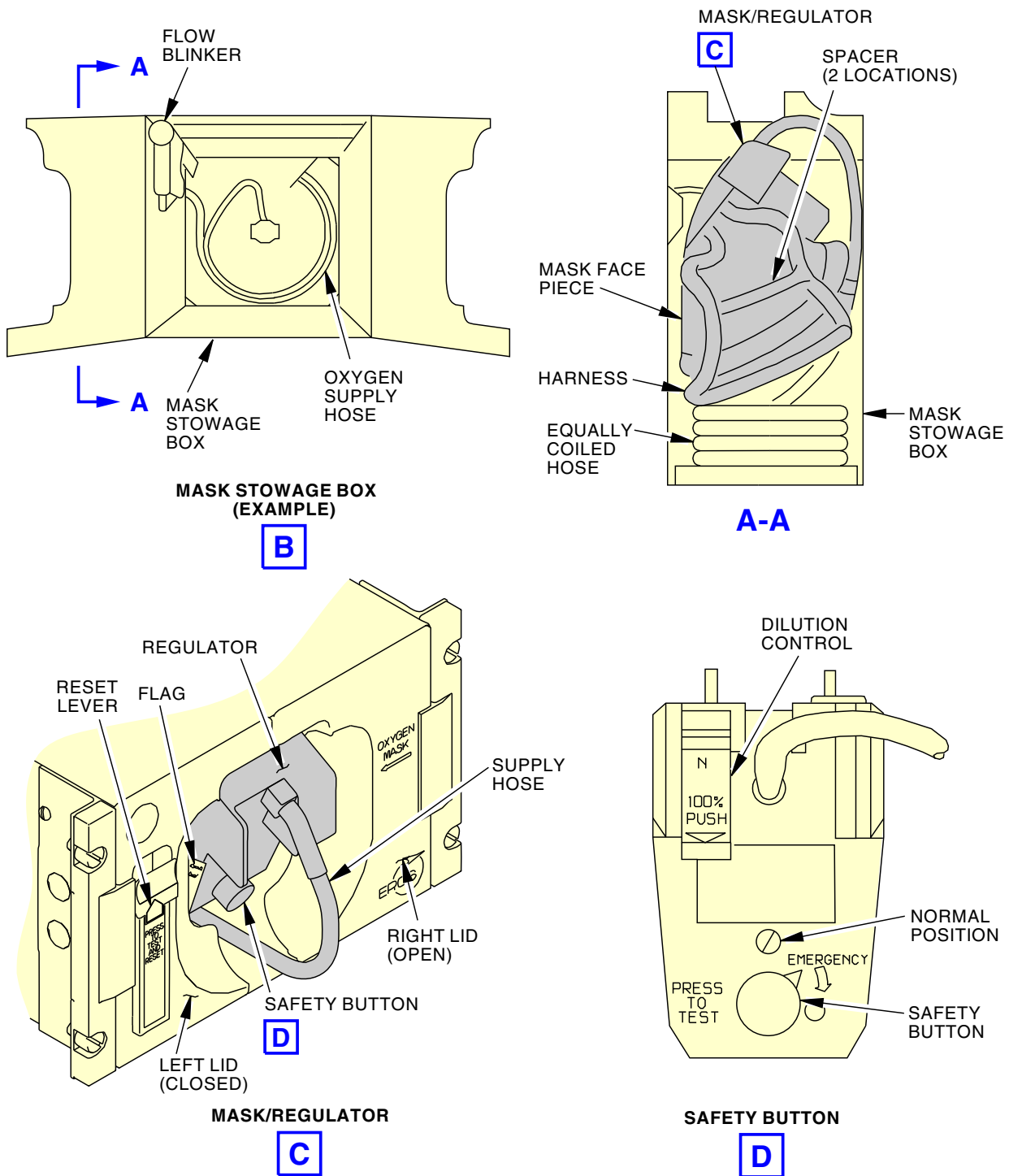
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35-12-85

Page 204
Sep 15/2021

737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL



Crew Oxygen Mask Maintenance Practices
Figure 201/35-12-85-990-801 (Sheet 2 of 3)

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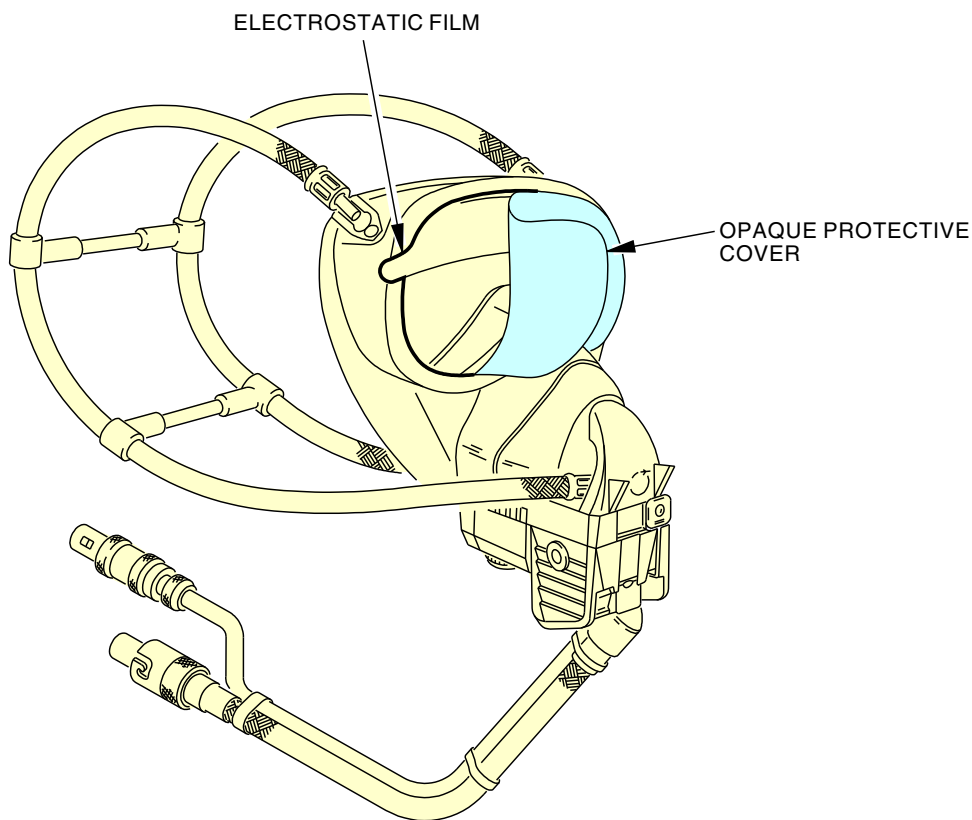
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35-12-85

Page 205
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL



OXYGEN MASK/REGULATOR
(SHOWN INFLATED)
(EXAMPLE)



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Crew Oxygen Mask Maintenance Practices
Figure 201/35-12-85-990-801 (Sheet 3 of 3)

EFFECTIVITY
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D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-85

Page 206
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

CREW OXYGEN MASK/STOWAGE BOX - REMOVAL/INSTALLATION

1. **General**

- A. This procedure contains these tasks:
- (1) A removal of the oxygen mask stowage box
 - (2) An installation of the oxygen mask stowage box
 - (3) A removal of the oxygen mask/regulator
 - (4) An installation of the oxygen mask/regulator.

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. **Oxygen Mask Stowage Box Removal**

SUBTASK 35-12-85-910-002

- (1) Obey the safety precautions and general instructions for the oxygen system before the maintenance (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 35-12-85-860-003

- (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 mask stowage box(es).

SUBTASK 35-12-85-860-004

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

SUBTASK 35-12-85-020-001

- (6) Do these steps to remove the mask stowage box [5]:
- (a) Loosen the quarter-turn fasteners [1].

EFFECTIVITY
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D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-85

Page 401
May 15/2022



**737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL**

- (b) Carefully pull the mask stowage box [5] out of the receptacle.

SUBTASK 35-12-85-020-002

- (7) If it is necessary, disconnect the microphone connector [4] from the communications connection at the back of the mask stowage box [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 PRESSURE THAT STAYS 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 fitting at the back of the mask stowage box [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 [5] will not occur within 5 minutes, do this task: Installation of Caps on Open Oxygen Lines, TASK 35-00-00-420-801.
- 3) Make sure that only oxygen clean fittings are used.

NOTE: Oxygen clean fittings come from a sealed package labeled for oxygen system installation. 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 [5].

———— **END OF TASK** ————

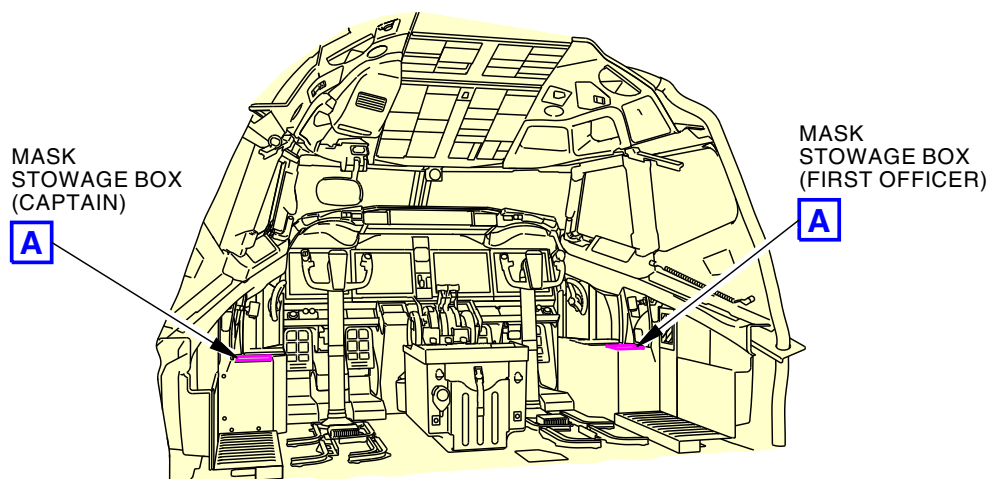
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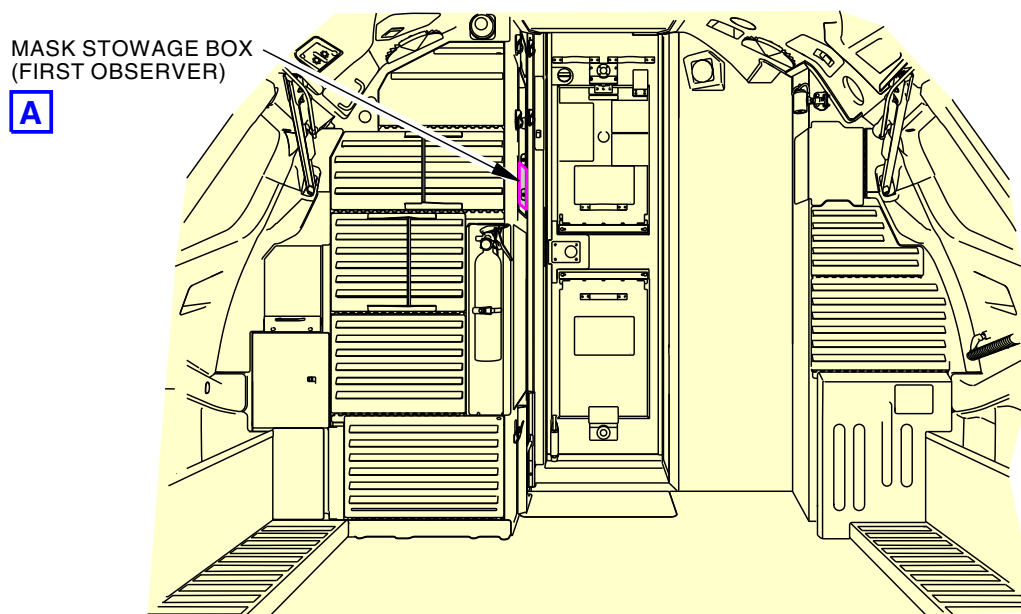
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

Page 402
Jan 15/2023



FLIGHT COMPARTMENT



FLIGHT COMPARTMENT

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Oxygen Mask Stowage Box Installation
Figure 401/35-12-85-990-802 (Sheet 1 of 2)

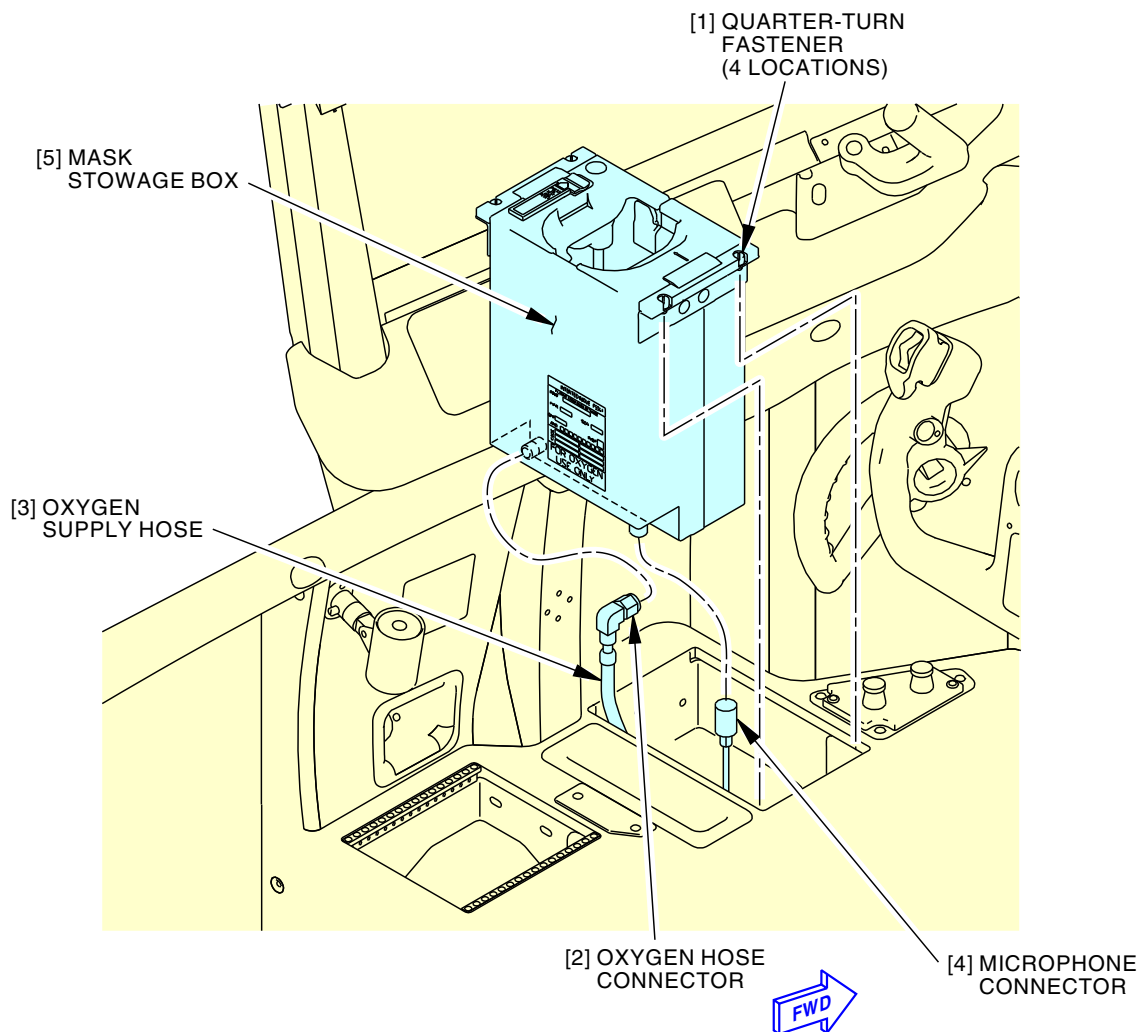
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D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-85

Page 403
Sep 15/2021



MASK STOWAGE BOX
(CAPTAIN'S MASK STOWAGE BOX IS SHOWN, OTHER CREW
MEMBER'S MASK STOWAGE BOXES ARE EQUIVALENT)

A

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Oxygen Mask Stowage Box Installation
Figure 401/35-12-85-990-802 (Sheet 2 of 2)

EFFECTIVITY
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D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-85

Page 404
Sep 15/2021



737-7/8/8200/9/10
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)
35-00-00-100-801	Clean the Oxygen System Components (P/B 701)
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	Mask stowage box	35-12-85-20-005	SIA ALL
		35-12-85-20-505	SIA ALL
		35-12-85-21-010	SIA ALL

C. **Location Zones**

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

D. **Oxygen Mask Stowage Box Installation**

SUBTASK 35-12-85-910-003

- (1) Obey the safety precautions and general instructions for the oxygen system before the maintenance (TASK 35-00-00-910-801).

SUBTASK 35-12-85-410-001

- (2) Go into the flight compartment area where the crew oxygen mask stowage box(es) will be installed.

SUBTASK 35-12-85-860-005

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

SUBTASK 35-12-85-900-001

- (4) Do these steps before the oxygen system tubing or hoses installation:
- (a) Examine the tube or hose 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.

EFFECTIVITY
SIA ALL

35-12-85

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Page 405
Sep 15/2022

737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL



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 only oxygen clean fittings are used.

NOTE: Oxygen clean fittings come from a sealed package labeled for oxygen system installation. 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 that must be as clean as the installation connections.

- 4) If it is necessary, replace the tube.
- (b) If it is necessary to clean the components, 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 35-12-85-420-004

- (5) Do these steps to connect the oxygen supply hose [3]:
- (a) Remove the protective plugs and caps.



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.
- 1) Tighten the connection between the oxygen hose connector [2] and fitting at the back of the mask stowage box [5] to 140 $\pm$ 5 in-lb (15.8 $\pm$ 0.6 N·m).
- (c) Use a backup wrench to make sure that the fitting does not turn.

SUBTASK 35-12-85-420-005

- (6) If it is necessary, connect the microphone connector [4] to the communications connection at the back of the mask stowage box [5].

SUBTASK 35-12-85-420-006

- (7) Do these steps to install the mask stowage box [5]:
- (a) Position the oxygen supply hose [3] and microphone connector [4] in such a way to make sure that they will not rub on the structure.
- (b) Carefully install the mask stowage box [5].
- (c) Confirm the orientation of the mask stowage box [5] is installed correctly.

NOTE: It is possible to install the captain's and first officer's mask stowage boxes incorrectly, turned 180 degrees from the correct position. In the correct position, the words on the mask stowage boxes will be easy to read. The crew and maintenance personnel must find it easy to read the words when they look forward from the captain's and the first officer's seats.

- (d) Tighten the quarter-turn fasteners [1].



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-12-85-410-002

- (8) If it is necessary to install the mask and regulator in the mask stowage box [5], do this task:
Oxygen Mask/Regulator Installation, TASK 35-12-85-400-802.

SUBTASK 35-12-85-860-006

- (9) 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 35-12-85-840-001

- (10) 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

- (11) Do this task: Crew Oxygen Mask-Regulator Test, TASK 35-12-00-700-802.

SUBTASK 35-12-85-710-002

- (12) 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)

NOTE: This procedure is a scheduled maintenance task.

A. References

<u>Reference</u>	<u>Title</u>
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. Consumable Materials

<u>Reference</u>	<u>Description</u>	<u>Specification</u>
G00624	Bag - Plastic, General Purpose	

C. Location Zones

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

D. Remove the Oxygen Mask/Regulator

SUBTASK 35-12-85-910-004

- (1) Obey the safety precautions and general instructions for the oxygen system before you do the maintenance (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.

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-85

Page 407
Sep 15/2022



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-12-85-860-007

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

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 35-12-85-010-003

- (4) Go into the flight compartment to get access to the crew oxygen masks.

SUBTASK 35-12-85-860-008

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

SUBTASK 35-12-85-020-005

- (6) Do these steps to remove the applicable oxygen mask assembly [25] from the oxygen mask stowage box [21]:
- Open the left and right lid on the applicable oxygen mask stowage box [21].
 - Disconnect the microphone line at the microphone connection [23].
 - Disconnect the oxygen supply hose [24] at the oxygen supply hose connection [22].
 - Attach the oxygen supply hose [24] and the microphone line together to make a bundle.
 - Remove the oxygen mask assembly [25].

SUBTASK 35-12-85-480-001

- (7) Do these steps if the installation of a removed oxygen mask assembly will not occur within 5 minutes:
- Seal the opening of the disconnected oxygen supply hose [24] on the oxygen mask assembly [25].
NOTE: This step is not necessary if you discard the oxygen mask assembly [25].
 - Attach a clean plastic bag, G00624 around the opening of the oxygen supply hose [24].
 - Seal the opening of the oxygen supply hose connection [22] on the related oxygen mask stowage box [21].
 - Attach a clean plastic bag, G00624 around the opening of the oxygen supply hose connection [22].

————— **END OF TASK** —————

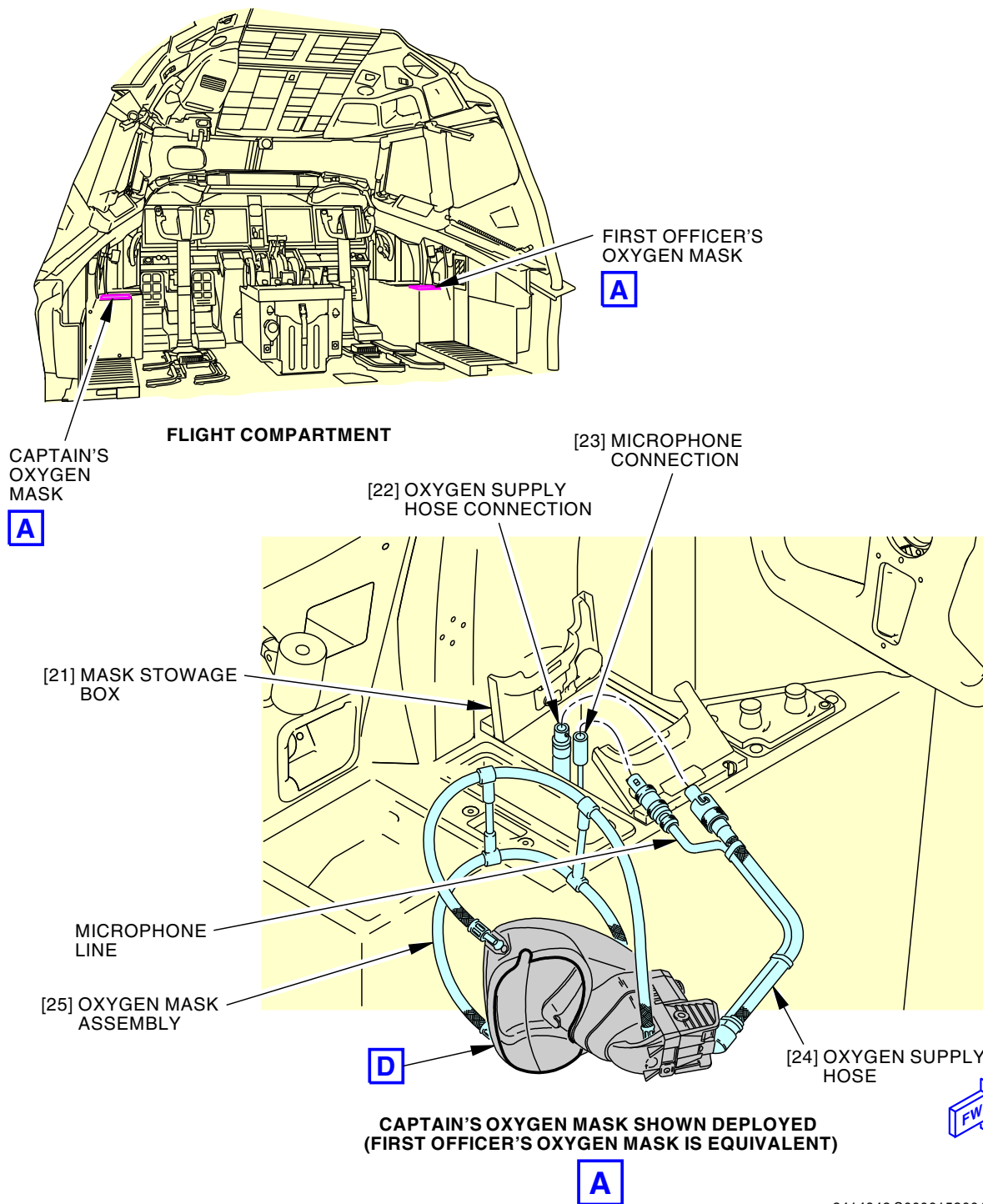
EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-85

Page 408
Sep 15/2022



2414942 S00061536643_V2

Crew Oxygen Mask Installation
Figure 402/35-12-85-990-803 (Sheet 1 of 3)

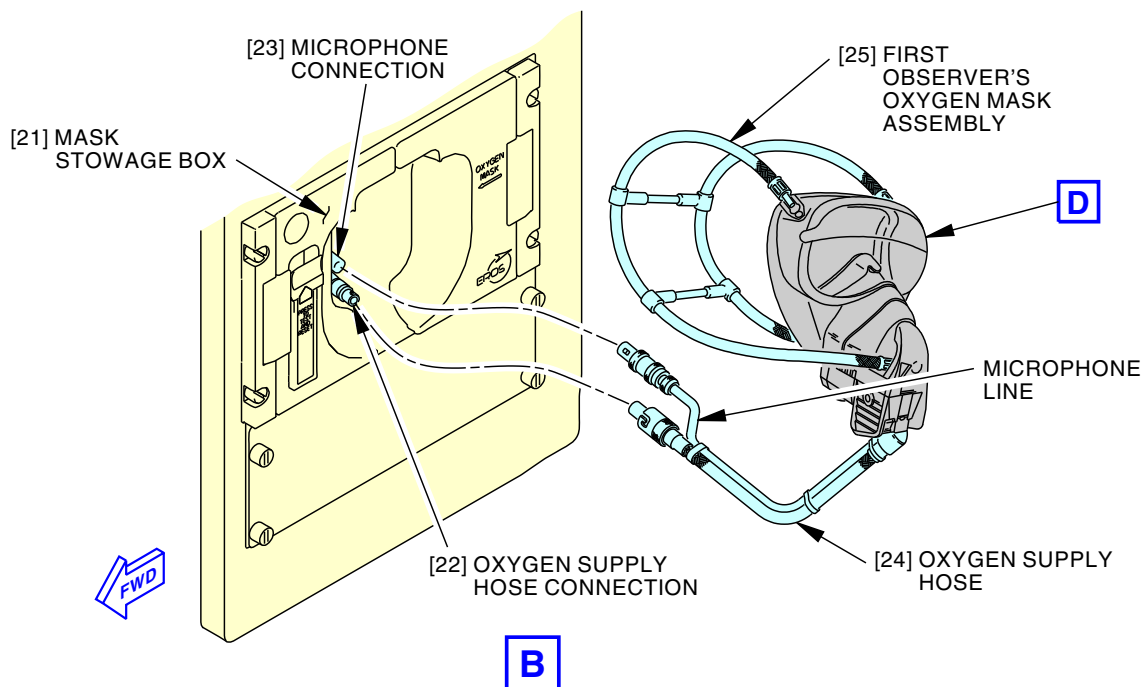
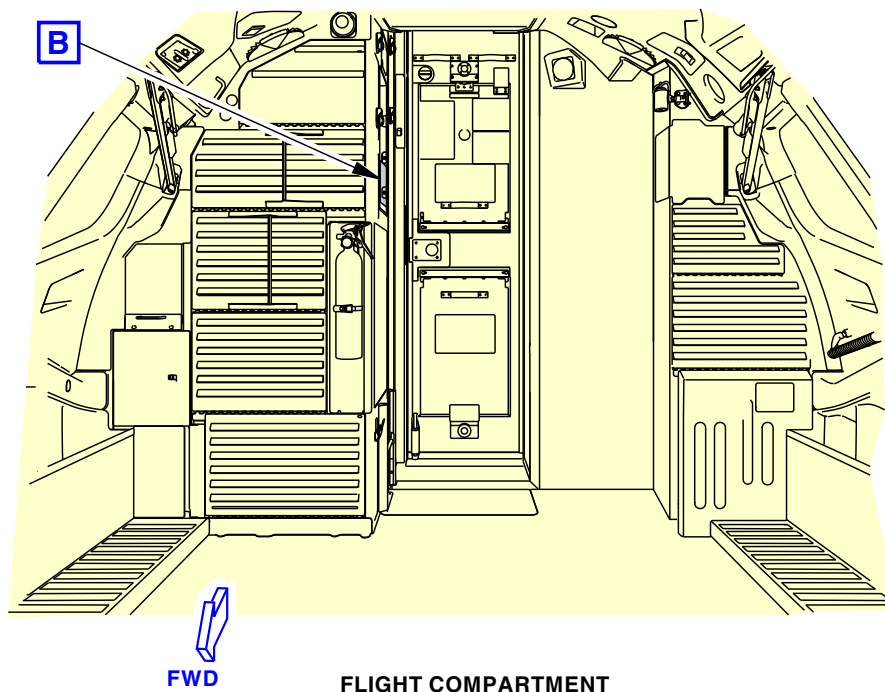
EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-85

Page 409
Jan 15/2022



2414943 S00061536644_V4

Crew Oxygen Mask Installation
Figure 402/35-12-85-990-803 (Sheet 2 of 3)

EFFECTIVITY
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D633AM101-SIA

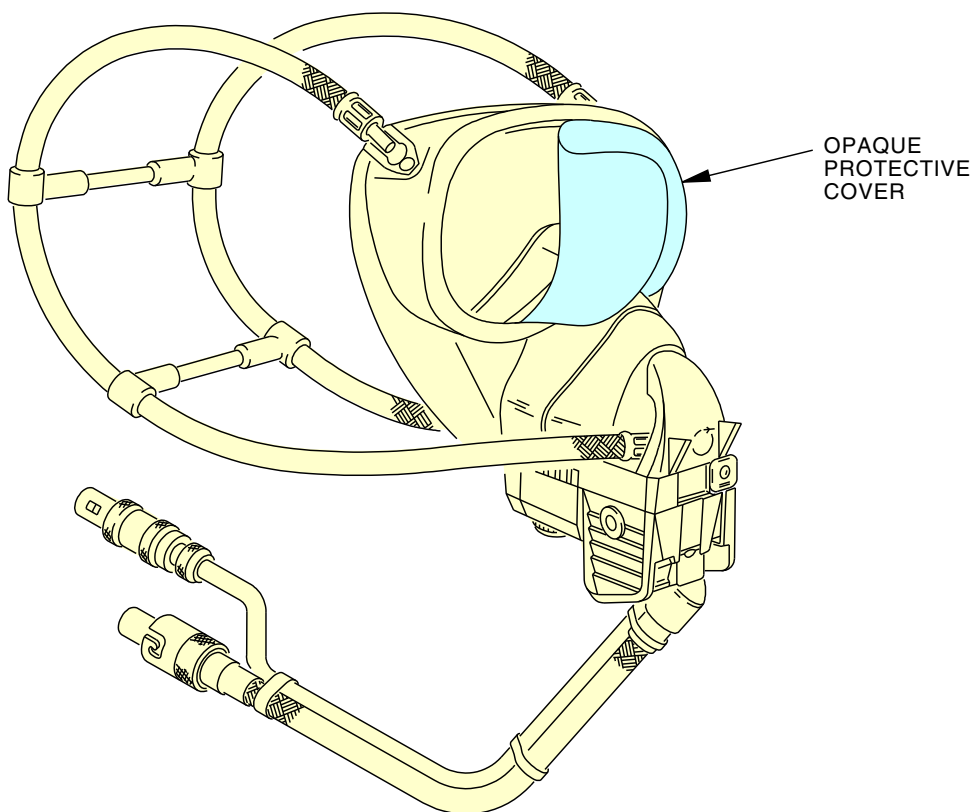
ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-85

Page 410
Jan 15/2022



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL



OXYGEN MASK/REGULATOR
(SHOWN INFLATED)
(EXAMPLE)

D

2536763 S0000601629_V1

Crew Oxygen Mask Installation
Figure 402/35-12-85-990-803 (Sheet 3 of 3)

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-85

Page 411
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

TASK 35-12-85-400-802

5. Oxygen Mask/Regulator Installation

(Figure 401, Figure 402)

NOTE: This procedure is a scheduled maintenance task.

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)
35-12-85-910-801	Crew Oxygen Mask Stowage (P/B 201)

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
25	Mask assembly	35-12-85-01-005	SIA ALL
		35-12-85-03-005	SIA ALL

C. Location Zones

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

D. Install the Oxygen Mask/Regulator

SUBTASK 35-12-85-910-005

- (1) Obey the safety precautions and general instructions for the oxygen system before you do maintenance (TASK 35-00-00-910-801).

SUBTASK 35-12-85-410-003

- (2) Go into the flight compartment area where you will install the oxygen mask/regulator(s).

SUBTASK 35-12-85-860-009

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

SUBTASK 35-12-85-080-001

- (4) If installed, remove the caps and plugs from the oxygen supply line.

SUBTASK 35-12-85-420-007



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 applicable oxygen mask assembly [25] in the oxygen mask stowage box [21]:

NOTE: Oxygen clean fittings come from a sealed container with a label for the 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
SIA ALL

35-12-85

D633AM101-SIA

Page 412
Jan 15/2022



**737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL**

- (a) Open the left and right covers on the applicable oxygen mask stowage box [21].
- (b) Remove the plastic bag from the oxygen supply hose connection [22] on the applicable oxygen mask stowage box [21].
- (c) If necessary, remove the plastic bag from the oxygen supply hose [24] on the applicable oxygen mask assembly [25].
- (d) Connect the oxygen supply hose [24] at the oxygen supply hose connection [22] in the oxygen mask stowage box [21].
- (e) Connect the microphone line at the microphone connection [23] in the oxygen mask stowage box [21].
- (f) Remove the opaque lens cover from the face mask lens, if it is installed.

NOTE: An opaque (not transparent) lens cover may be installed on the face mask lens by the manufacturer. Make sure that you remove the opaque cover before you stow the mask, if the cover is installed.

- (g) Do this task to install the crew oxygen mask assembly [25] in the oxygen mask stowage box [21]: Crew Oxygen Mask Stowage, TASK 35-12-85-910-801.

SUBTASK 35-12-85-860-010

- (6) 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

- (7) 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

- (8) Do these operational tests to make sure that 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) For each mask that you installed, do this task: Flight Interphone System Operational Test, TASK 23-51-00-710-801.

NOTE: It is not necessary to do the test on the masks at crew stations without microphone connections.

———— **END OF TASK** ————

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-85

Page 413
Jan 15/2022



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

CREW OXYGEN MASK CLEANING

1. General

- A. This procedure has these tasks:
 - (1) Oxygen Mask Cleaning
- B. This procedure cleans one oxygen mask/regulator assembly. Do the procedure again to clean more mask/regulator assemblies.

TASK 35-12-85-100-801

2. Crew Oxygen Mask Cleaning

A. General

- (1) This task gives the steps on how to clean a crew oxygen mask.

B. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-12-85-000-802	Oxygen Mask/Regulator Removal (P/B 401)
35-12-85-400-802	Oxygen Mask/Regulator Installation (P/B 401)

C. Consumable Materials

Reference	Description	Specification
B00130	Alcohol - Isopropyl	TT-I-735
B50003	Solvent - Cleaning - HFE 71DE	BAC5402
B50201	Wipe - Alcohol (Isopropyl Alcohol)	
B50259	Cleaner - SAN50 Disinfectant, single use sachet	
B50355	Detergent - Assert Lemon	
B50356	Detergent - M36	
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	AMS3819 Class 1 Grade A or B Form 1 (Supersede BMS15-5 CLA)
G01043	Cloth - Lint-free	
G01306	Gloves - Lint-free	
G02418	Water - De-ionized	
G50139	Water - Distilled	
G50140	Gloves - Protective, Latex or Nitrile	
G50512	polyethylene bag	
G51116	Cloth - Zodiac Aerospace SAN40-2 Lens Cleaning Cloth (formerly SAN40)	
G51117	Film - Zodiac Aerospace SAN60-1 Protection Film (formerly SAN60)	

D. Location Zones

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

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-85

Page 701
Jan 15/2023



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

E. Prepare for the Cleaning

SUBTASK 35-12-85-910-006

- (1) Do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-12-85-910-007

- (2) Wear clean, protective gloves, G50140, or lint-free gloves, G01306, when you do maintenance of the oxygen system.

NOTE: Only use protective gloves, G50140, to clean the oxygen system and lint-free gloves, G01306, for general maintenance of the oxygen system.

SUBTASK 35-12-85-020-008

- (3) Remove the oxygen mask from its stowage box (TASK 35-12-85-000-802).

F. Crew Oxygen Mask Cleaning

SUBTASK 35-12-85-420-016

- (1) Put the SAN60-1 protection film, G51117, on the window internally and externally to prevent the damage of the anti-mist coat.

SUBTASK 35-12-85-160-002



DO NOT USE OIL OR OTHER PETROLEUM BASE LUBRICANTS ON OXYGEN EQUIPMENT. IT WILL CREATE A DANGEROUS FIRE HAZARD.



USE ONLY THE SPECIFIED SOLUTIONS IN THE SPECIFIED CONCENTRATIONS. IF YOU USE OTHER SOLUTIONS OR CONCENTRATIONS, DAMAGE TO EQUIPMENT CAN OCCUR.



DO NOT USE TOO MUCH FLUID TO SOAK THE CREW OXYGEN MASK. USE ONLY A SMALL QUANTITY OF THE FLUID TO CLEAN IT. DAMAGE TO THE MASK CAN OCCUR.



DO NOT CLEAN THE MASK WINDOW WHEN THERE IS MOISTURE OR WATER ON ITS SURFACES. DAMAGE TO THE ANTI-MIST COAT CAN OCCUR.



DO NOT LET DETERGENTS AND DISINFECTANTS GO ON THE WINDOW SURFACES. IF YOU DO NOT OBEY, DAMAGE CAN OCCUR TO WINDOW SURFACES.

- (2) Clean the crew oxygen mask:
- (a) Lightly moisten a cotton wiper, G00034, or lint-free cloth, G01043, with the cleaning solution.
 - 1) Prepare the following mixture for the detergent solution:
 - a) Mix 30 ml/liter of detergent, B50356, or 8 ml/10 liters to 12ml/10 liters of detergent, B50355, and hot water.
 - (b) Clean all areas of the mask face piece and the nose cup assembly.

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-85

Page 702
Jan 15/2022



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

- (c) Remove the detergent solution with a cotton wiper, G00034, or lint-free cloth, G01043, moistened with pure water.
- (d) Let the oxygen mask fully dry in the air or blow dry, clean air without oil.
- (e) Apply antiseptic SAN50 disinfectant cleaner, B50259, on the internal surfaces of the mask face piece.
 - 1) Clean the removed parts.
 - 2) Clean the new parts.
- (f) If it is necessary, clean the microphone with a cotton wiper, G00034, or lint-free cloth, G01043, moistened with isopropyl alcohol, B00130.

SUBTASK 35-12-85-160-004



STRICTLY OBEY THE PROCEDURES WHEN YOU DO WORK ON THE OXYGEN SYSTEM. DO NOT USE OIL, GREASE OR OTHER LUBRICANTS MADE FROM PETROL IN THE AREA OF OXYGEN SYSTEM. YOU CAN CAUSE A FIRE OR EXPLOSION.



MAKE SURE THAT YOUR HANDS ARE CLEAN BEFORE YOU TOUCH THE REGULATOR. USE APPROVED GREASES AND CLEANERS. IF YOU USE UNAPPROVED GREASES AND CLEANERS, IT CAN CAUSE DAMAGE TO THE REGULATOR.

- (3) If necessary, do these steps to clean the parts of the regulator:
 - (a) Carefully clean the metal parts.
 - 1) To clean the removed metal parts, use one of these methods:
 - a) Method One:
 - <1> Use the HFE 71DE solvent, B50003, or alcohol wipes, B50201, to remove all external grease, oil or other contaminants.
 - <2> Flush with clear hot water.
 - b) Method Two:
 - <1> Clean the metal parts with the HFE 71DE solvent, B50003, alcohol wipes, B50201, or equivalent products.
 - <2> Use a vapor degreasing method or ultra sonic method with the HFE 71DE solvent, B50003, or alcohol wipes, B50201.
 - <3> Put each part in the temperature controlled oven at 140 +18 / -0°F (60 +10 / -0°C) to hot dry for one hour or blow dry, clean air without oil.
 - <4> Put each component in the polyethylene bag, G50512, or the plastic box until you install the equipment.
 - 2) Clean the new metal parts:
 - a) Clean the metallic parts with HFE 71DE solvent, B50003, or alcohol wipes, B50201, or equivalent products.
 - b) Use a vapor degreasing method or ultra sonic method with the HFE 71DE solvent, B50003.
 - c) Put each part in the temperature controlled oven at 140 +18 / -0°F (60 +10 / -0°C) to hot dry for one hour or blow dry, clean air without oil.

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-85

Page 703
Jan 15/2022



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

- d) Put each part in the polyethylene bag, G50512, or the plastic box until you install the equipment.
- (b) Carefully clean the plastic parts.
 - 1) To clean the removed plastic parts, use one of these methods:
 - a) Method One
 - <1> Use the HFE 71DE solvent, B50003, or alcohol wipes, B50201, to remove all external traces of grease, oil or other contaminants.
 - <2> Flush with clear hot water.
 - b) Method Two
 - <1> Flush with clear water for one or two minutes.
 - <2> Fully flush in de-ionized water, G02418, or distilled water, G50139, for two minutes.
 - <3> Put each part in the temperature controlled oven at 122°F (50°C) - 140°F (60°C) to hot dry or blow dry, clean air without oil.
 - <4> Put each part in the polyethylene bag, G50512, or the plastic box until you install the equipment.
 - 2) Clean the new parts:
 - a) Clean new plastic parts with the detergent solution.
 - <1> Prepare the following mixture for the detergent solution:
 - <a> Mix 30ml/liter of detergent, B50356, or 12ml/10 liters of detergent, B50355, and hot water.
 - b) Use an ultra sonic method with the hot detergent solution (122°F (50°C) - 140°F (60°C)).
 - c) Flush with clear water for one or two minutes.
 - d) Fully flush in de-ionized water, G02418, or distilled water, G50139, for two minutes.
 - e) Put each part in the temperature controlled oven at 122°F (50°C) to 140°F (60°C) to hot dry for one hour or blow dry, clean air without oil.
 - f) Put each part in the polyethylene bag, G50512, or the plastic box until you install the equipment.



CAUTION

DO NOT LET THE SOLUTION TO FLOW INTO THE CIRCUIT. PUT A CAP ON THE ORIFICES TO PREVENT DAMAGE TO THE CIRCUIT. IF YOU DO NOT OBEY, DAMAGE TO THE CIRCUIT CAN OCCUR.

- (c) Carefully clean the main casing.
 - 1) Remove main casing parts.
 - a) Clean all the areas of the main casing with the cotton wiper, G00034, or lint-free cloth, G01043, moistened with isopropyl alcohol, B00130.
 - b) Let the main casing fully dry in the air or blow dry, clean air without oil.
 - c) Put the main casing in the polyethylene bag, G50512, or the plastic box until you install the equipment.
 - 2) Is not applicable to clean new parts.

EFFECTIVITY
SIA ALL

D633AM101-SIA

35-12-85

Page 704
Jan 15/2022



**737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL**

SUBTASK 35-12-85-020-011

- (4) Remove the SAN60-1 protection film, G51117, from the mask window.

SUBTASK 35-12-85-160-005

- (5) If necessary, clean the window:
 - (a) Carefully clean all the window surfaces with the SAN40-2 lens cleaning cloth, G51116.

G. Put The Airplane Back to Its Usual Condition

SUBTASK 35-12-85-410-004

- (1) Install the oxygen mask and regulator assembly (TASK 35-12-85-400-802).

———— **END OF TASK** ————

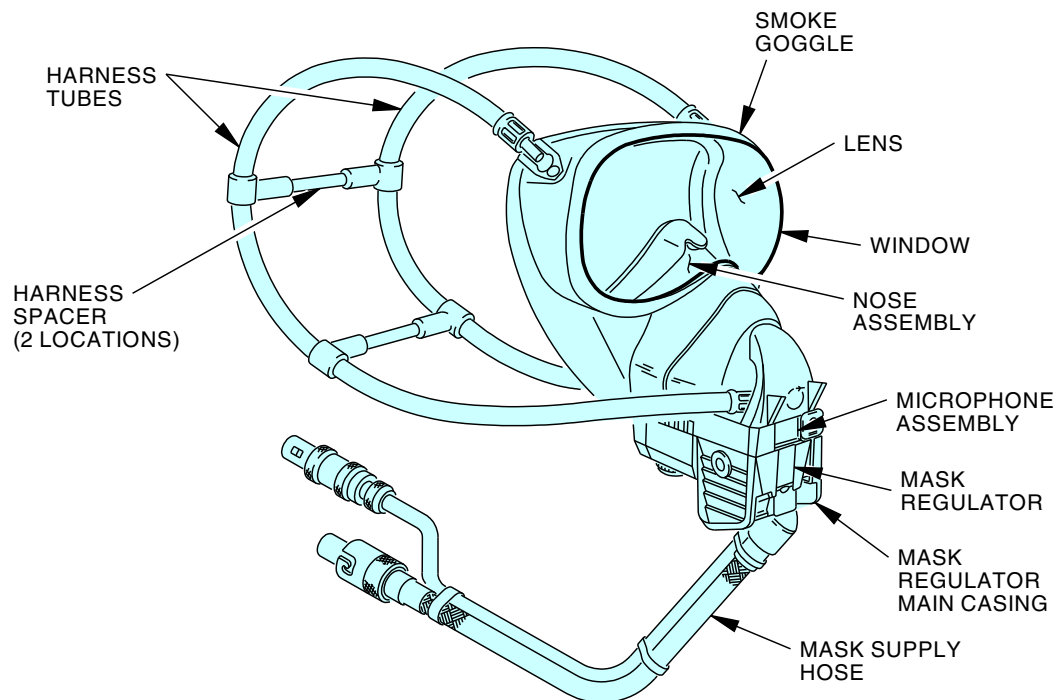
EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-85

Page 705
Jan 15/2022



**MASK ASSEMBLY
(EXAMPLE)
(INFLATED)**

2917325 S0000701724_V1

**Crew Oxygen Mask Maintenance Practices
Figure 701/35-12-85-990-804**

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-12-85

Page 706
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

PASSENGER OXYGEN SYSTEM - ADJUSTMENT/TEST

1. General

A. This procedure contains these tasks:

- (1) Passenger oxygen system automatic actuation functional test
- (2) Passenger oxygen system manual deploy operational test
- (3) Oxygen generator visual inspection
- (4) Oxygen cylinder visual inspection.

TASK 35-22-00-700-801

2. Passenger Oxygen System Automatic Actuation Functional Test

(Figure 501, Figure 502 and Figure 503)

NOTE: This procedure is a scheduled maintenance task.

A. General

- (1) This task is for the functional test of the automatic actuation of the passenger oxygen system.

B. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-41-000-801	Altitude Pressure Switch - Removal (S813) (P/B 401)
35-22-41-400-801	Altitude Pressure Switch - Installation (S813) (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
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-00

Page 501
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

Reference	Description
COM-1914	Test Set - Air Data Model FLMTS (Flight Line Maintenance) Part #: 18910920000 Supplier: 89944 Part #: ADSE 650 Supplier: 3BSK6 Part #: ADTS2000 Supplier: 52892 Part #: ADTS3350ER Supplier: 52892 Part #: ADTS405MKII Supplier: U0427 Part #: ADTS530 Supplier: U0427 Part #: ADTS552F Supplier: U0427 Part #: ADTS553F Supplier: U0427 Part #: ADTS554F Supplier: U0427 Part #: D60340MK Supplier: K1474 Part #: DPS1000 Supplier: 21844 Part #: DPS350 Supplier: 21844 Part #: DPS450 Supplier: 21844 Part #: MODEL 6300 Supplier: 0RDZ5 Part #: MPS34C Supplier: 48RQ2 Part #: MPS43B Supplier: A0197 Part #: MPS45 Supplier: 48RQ2 Part #: MPS49 Supplier: 48RQ2 Part #: TES9463 Supplier: 88277 Opt Part #: 01-0987-00 Supplier: 41364 Opt Part #: 18910480000 Supplier: 89944 Opt Part #: ADTS405F Supplier: U0427 Opt Part #: ADTS505 Supplier: U0427 Opt Part #: D60302 Supplier: K1474 Opt Part #: D60340 Supplier: K1474 Opt Part #: D60383 Supplier: K1474 Opt Part #: DPS500 Supplier: 21844 Opt Part #: MPS31C Supplier: 48RQ2 Opt Part #: MPS43 Supplier: A0197
COM-1931	Pump - Vacuum, Portable, Standard Duty Part #: 2546B-01 Supplier: 0NCC5 Part #: 2546C-01 Supplier: 0NCC5 Part #: 2546C-02 Supplier: 0NCC5 Opt Part #: 2545B-01 Supplier: 0NCC5 Opt Part #: 2545C-02 Supplier: 0NCC5
COM-14099	Test Stop Key Assy Part #: 70698 Supplier: 16115
STD-1318	Hose - Vacuum, 1/4 Inch Inside Diameter (ID) Plastic Tube (Tygon-B44-30PT, Uniflex 650 or Similar)
STD-1319	Connector - 1/4 Inch ID Tee, Plastic, Vacuum Hose (to Attach Vacuum Gauge to Vacuum Hose)
STD-1320	Gauge - Vacuum
STD-1321	Valve - Shutoff
STD-3900	Adapter - Straight, Tube to Hose (meets AS5180D04 specification)

D. Consumable Materials

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

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-00

Page 502
Sep 15/2023



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

E. Location Zones

Zone	Area
200	Upper Half of Fuselage
212	Flight Compartment - Right

F. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

G. Prepare for the Test

SUBTASK 35-22-00-910-001

- (1) Do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-22-00-860-003

- (2) Do these steps to prepare the test stops of each oxygen box door of the lavatories, attendant stations, and galleys:

- Pull the test stop button out to the limit of travel.
- Turn the test stop button counterclockwise 90 degrees to the test stop position.
- Do a check to make sure that 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. This will cause the oxygen masks to deploy during the functional test.

SUBTASK 35-22-00-860-004

- (3) Install a test stop key assembly, COM-14099, or a masking tape, G02311, to the oxygen mask door of each Passenger Service Unit (PSU) as follows:

- If you use the test stop key assembly, COM-14099, make sure that you install the tool through the slot in the door.

NOTE: The tool must fully engage the latch of the door latch actuator.

- If you use a masking tape, G02311, install it to let the door partially open 1.0 ±0.5 in. (2.5 ±1.3 cm).

SUBTASK 35-22-00-860-005

- (4) Do these steps to clear the master caution system:
- On the P7 light shield, push one of the two MASTER CAUTION lights.
 - Make sure that the two MASTER CAUTION annunciators do not stay on.
 - Make sure that the OVERHEAD annunciation on the right master caution display does not come on.

H. Passenger Oxygen System Automatic Actuation Functional Test

SUBTASK 35-22-00-860-006

- (1) Open this circuit breaker:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	9	C00784	OXYGEN PASS RIGHT

SUBTASK 35-22-00-860-019

- (2) Open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

EFFECTIVITY
SIA ALL

35-22-00

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Page 503
Sep 15/2023



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-22-00-480-001

- (3) Do these steps to install the test equipment on the altitude pressure switch, S813, (Figure 502):
- Get access to the J23 BOX.
 - Remove the cover to get access to the altitude pressure switch, S813.
 - Find the altitude pressure switch fitting through the hole in the forward side of the J23 BOX.
 - Connect these components to the altitude pressure switch, S813:

NOTE: The altitude pressure switch can be moved from its position a small distance to attach the test equipment.

NOTE: If the air data model test set, COM-1914, is used, do not use the other tools.

- The adapter, STD-3900
- The hose, STD-1318
- The connector, STD-1319
- The vacuum gauge, STD-1320
- The shutoff valve, STD-1321
- The vacuum pump, COM-1931
- The air data model test set, COM-1914.

SUBTASK 35-22-00-720-001



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.

- (4) Simulate a cabin altitude of 14,000 $\pm$ 350 ft (4267 $\pm$ 107 m) as follows:
- Slowly decrease the pressure to the altitude pressure switch, S813, to between 17.8 in. (452.8 mm) and 17.3 in. (440.2 mm).

NOTE: A 8.6 $\pm$ 0.1 psia (17.5 $\pm$ 0.2 in/Hg) (-6.1 $\pm$ 0.1 psig (-12.4 $\pm$ 0.2 in/Hg)) pressure is equivalent to an altitude of 14,000 $\pm$ 350 ft (4267 $\pm$ 107 m).

SUBTASK 35-22-00-720-002

- (5) When the doors of the left side oxygen boxes release against the test stops, examine the test gage.
- Make sure that the test gage shows 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.
 - If the oxygen box doors do not release at or below 17.3 in. (440.2 mm) mercury absolute, 14,350 ft (4374 m) cabin altitude, replace the pressure switch (TASK 35-22-41-000-801 and TASK 35-22-41-400-801).

SUBTASK 35-22-00-720-003

- (6) Make sure that the PASS OXY ON light, on the P5-14 Oxygen System Module, comes on (Figure 501).

SUBTASK 35-22-00-720-004

- (7) Make sure that the two MASTER CAUTION lights and OVERHEAD annunciation on the master caution display come on.

EFFECTIVITY
SIA ALL

D633AM101-SIA

35-22-00

Page 504
Jan 15/2023



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-22-00-720-005

- (8) Push the LIGHTS switch, on the P1-3 panel, to the DIM position.

SUBTASK 35-22-00-720-006

- (9) Make sure that the PASS OXY ON light is on and light is dim.

SUBTASK 35-22-00-720-007

- (10) Push the LIGHTS switch to the BRT (bright) position.

SUBTASK 35-22-00-720-008

- (11) Make sure that the PASS OXY ON light is on and light is bright.

SUBTASK 35-22-00-720-009

- (12) Push one of the two MASTER CAUTION lights to set the system.

SUBTASK 35-22-00-720-010

- (13) Make sure that all of the annunciations on the master caution displays go off.

SUBTASK 35-22-00-720-011

- (14) Push one of the two master caution displays.

NOTE: Other lights on the master caution annunciator can come on, but maintenance is not necessary.

SUBTASK 35-22-00-720-012

- (15) Make sure that the two MASTER CAUTION lights and OVERHEAD annunciation on the master caution display come on.

SUBTASK 35-22-00-720-013

- (16) 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 35-22-00-720-014

- (17) Make sure that the PASS OXY ON light on, the P5-14 Oxygen System Module, does not come on.

NOTE: The two MASTER CAUTION lights will extinguish, if no other master caution annunciators come on.

SUBTASK 35-22-00-720-015

- (18) 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 35-22-00-720-016

- (19) Make sure that the PASS OXY ON light, on the P5-14 Oxygen System Module, comes on.

SUBTASK 35-22-00-720-017

- (20) Make sure that all the oxygen box doors on the right side of the airplane are released against the test stops.

EFFECTIVITY
SIA ALL

35-22-00

D633AM101-SIA

Page 505
Jan 15/2023



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-22-00-720-018

- (21) 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 35-22-00-720-019

- (22) Make sure that the PASS OXY ON light, on the P5-14 Oxygen System Module, does not show.

SUBTASK 35-22-00-720-020



DO NOT RELEASE THE VACUUM (PRESSURE) TOO QUICKLY AND SUDDENLY. IF YOU DO NOT OBEY, DAMAGE TO THE ALTITUDE PRESSURE SWITCH CAN OCCUR.

- (23) Slowly release the vacuum (pressure) to the altitude pressure switch, S813.

SUBTASK 35-22-00-080-001

- (24) Do these steps to remove the test equipment from the pressure switch:
- Remove the test equipment.
 - If it is necessary, install the screws that hold the altitude pressure switch, S813, to the J23 BOX.
 - Install the cover to the J23 BOX with the screws.

SUBTASK 35-22-00-410-001

- (25) Do these steps to close the oxygen box doors of each Attendant Service Unit (ASU) and Lavatory Service Unit (LSU) (Figure 503):
- 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.
 - Fully close and latch the mask box door.
NOTE: The latch will usually make a "click" noise when it fully engages.

SUBTASK 35-22-00-410-002

- (26) Do these steps to close the door of the oxygen boxes of the underbin PSU's of the passenger cabin:
- Hold the mask door of the PSU oxygen box to the almost closed position.
 - Remove the test stop key assembly, COM-14099, (or masking tape, G02311) from the oxygen mask door of each PSU.
 - Push the door latch fully aft to arm the door latch actuator.

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-00

Page 506
Sep 15/2023



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL



DO NOT CATCH THE OXYGEN MASK ITEMS BETWEEN THE DOOR AND THE OXYGEN BOX. DO NOT CATCH THE OXYGEN MASK ITEMS BETWEEN THE DOOR AND THE ACTUATOR MOUNTING BRACKET. MAKE SURE THAT NO ITEMS ARE CAUGHT. IF YOU CATCH THE OXYGEN MASK ITEMS, YOU CAN CAUSE DAMAGE TO THE ITEMS.

- (d) Close the oxygen mask door until the door latch/actuator engages.

NOTE: The latch will usually make a "click" noise when it fully engages.

- (e) Make sure that the door is aligned with the PSU structure.

NOTE: A misaligned (misfired) door indicates that part of the mask assembly is between the door, or the latch/actuator, and oxygen box.

I. Put the Airplane Back to Its Usual Condition

SUBTASK 35-22-00-865-001

- (1) 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
F	10	C00783	OXYGEN PASS LEFT

SUBTASK 35-22-00-410-005

- (2) Close this access panel:

<u>Number</u>	<u>Name/Location</u>
117A	Electronic Equipment Access Door

———— **END OF TASK** ————

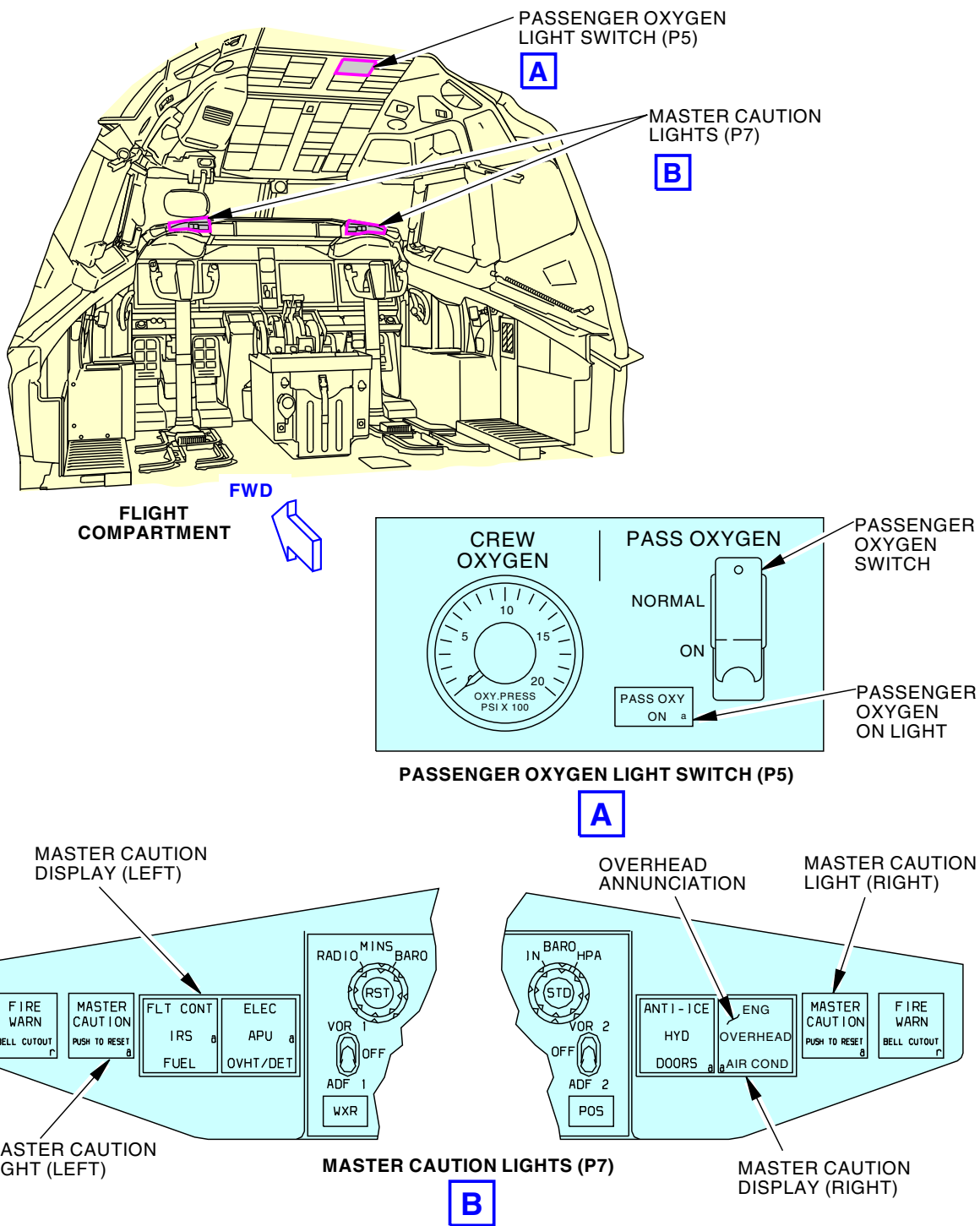
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D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-00

Page 507
Sep 15/2023



2414945 S00061536653_V1

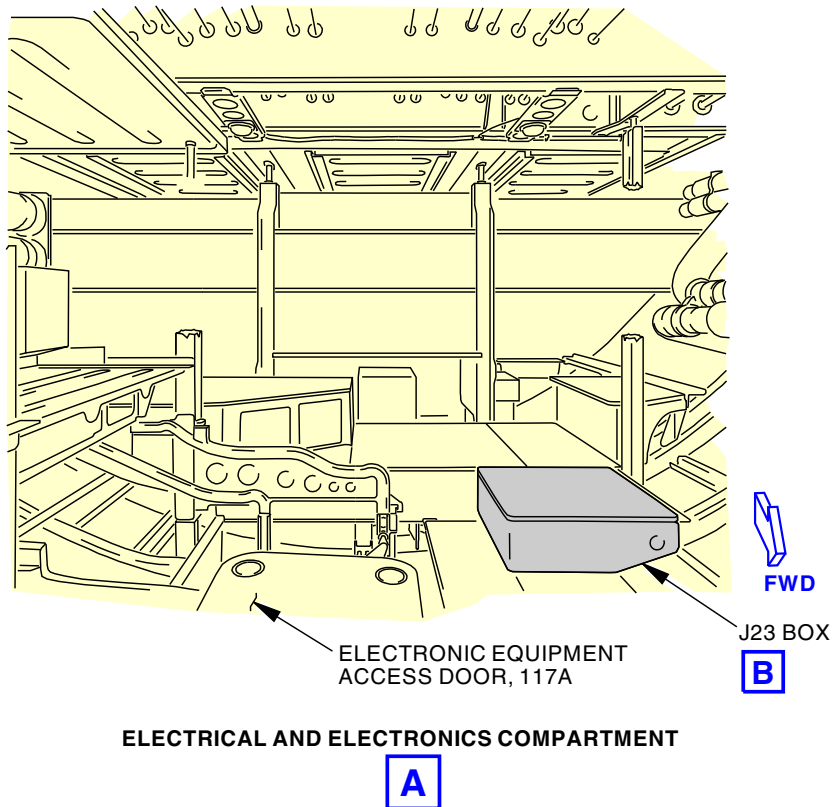
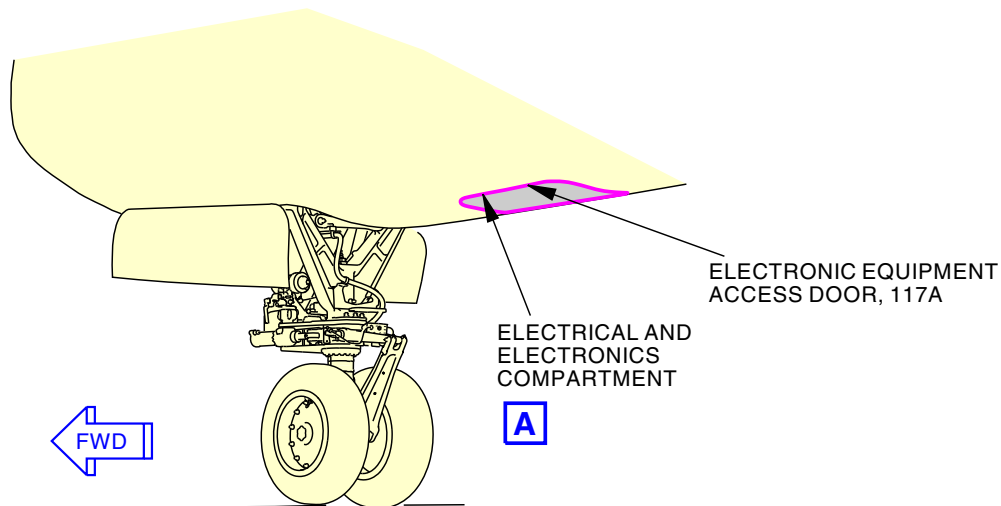
Passenger Oxygen Flight Compartment Panels
Figure 501/35-22-00-990-801

EFFECTIVITY
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35-22-00



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL



2414946 S00061536654_V1

Passenger Oxygen Automatic Pressure Switch
Figure 502/35-22-00-990-802 (Sheet 1 of 2)

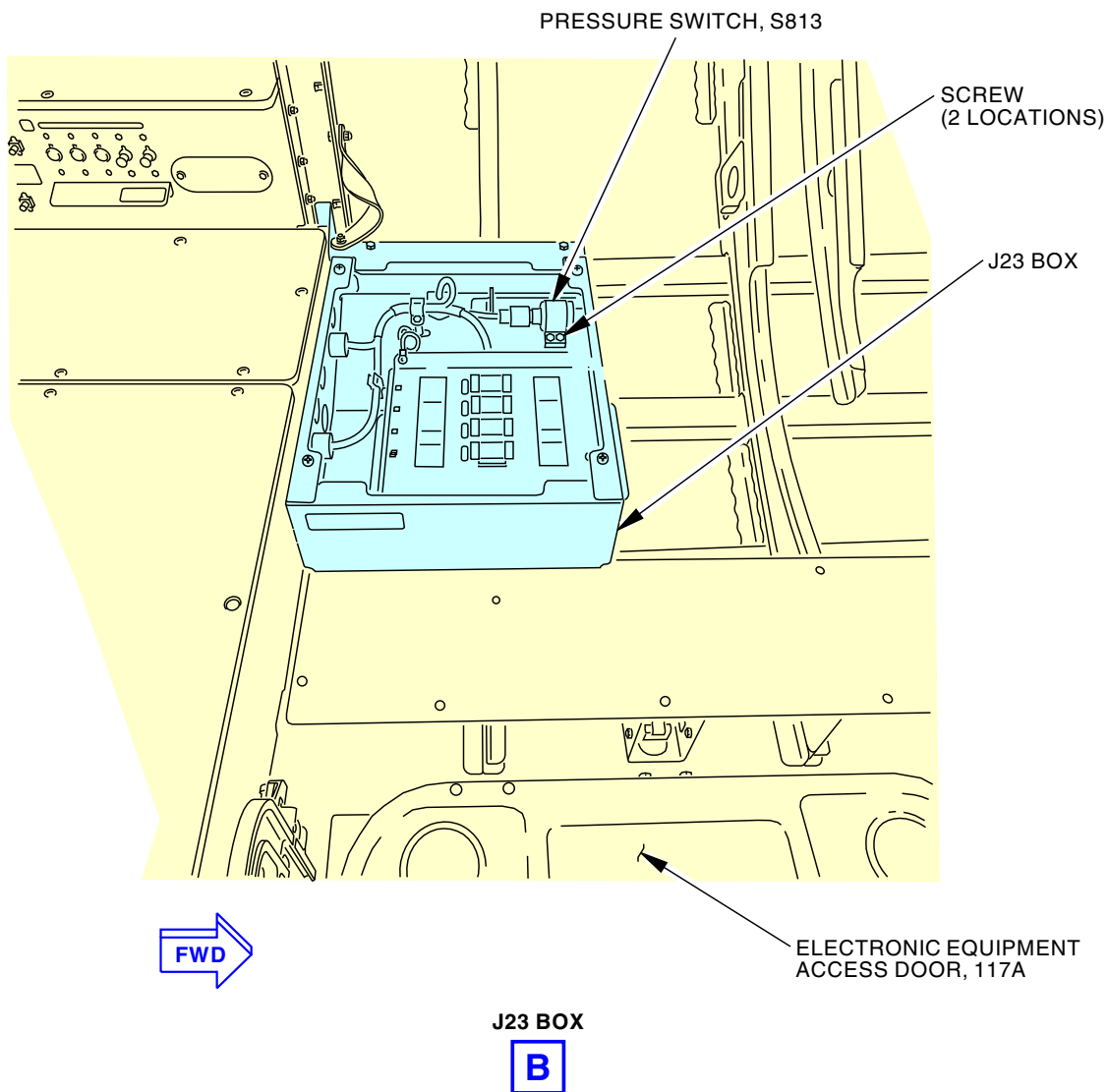
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D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-00

Page 509
Sep 15/2021



2414947 S00061536655_V2

Passenger Oxygen Automatic Pressure Switch
Figure 502/35-22-00-990-802 (Sheet 2 of 2)

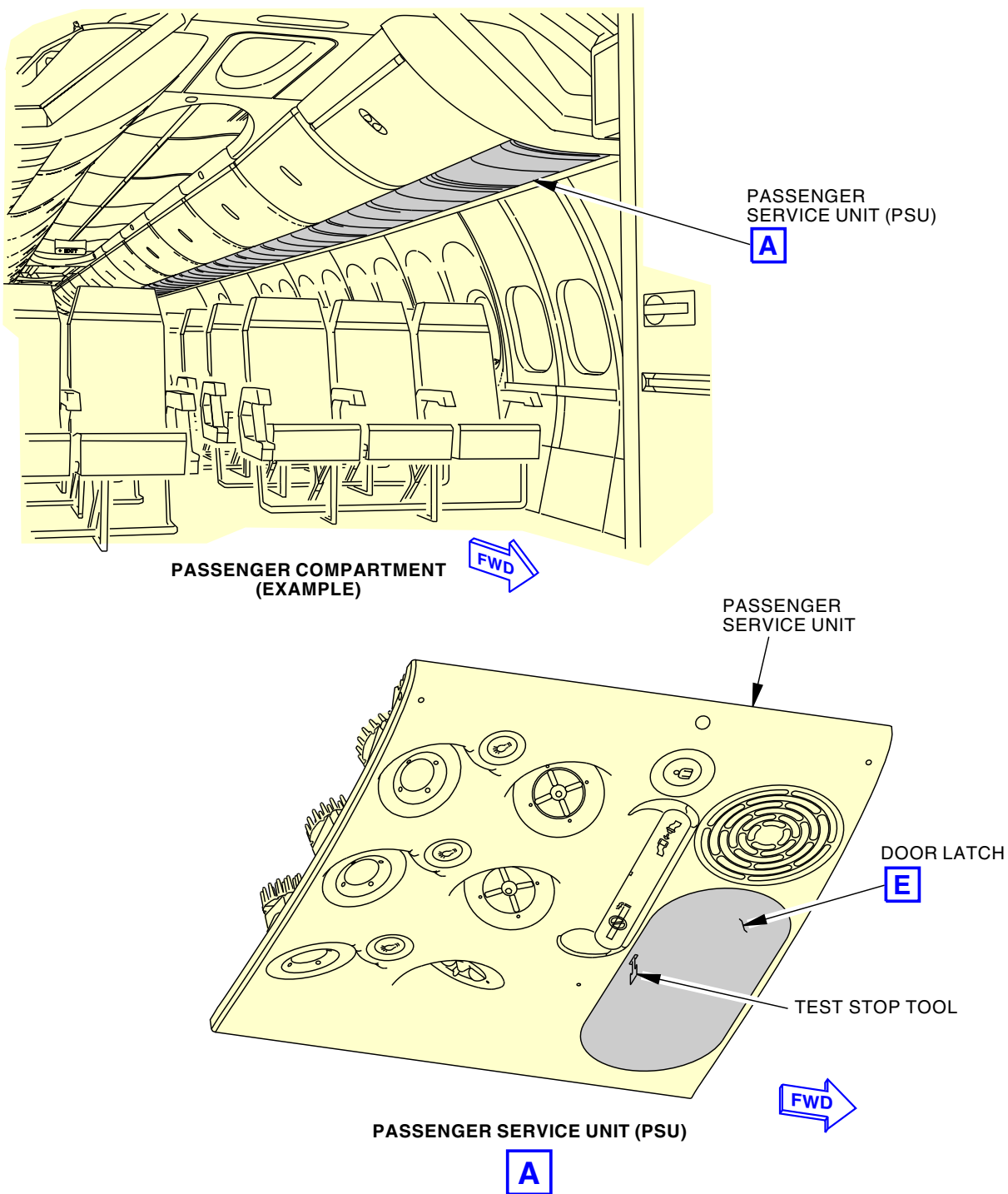
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D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-00

Page 510
Sep 15/2021



2414948 S00061536656_V1

Passenger Oxygen Mask Box Door Operation
Figure 503/35-22-00-990-803 (Sheet 1 of 5)

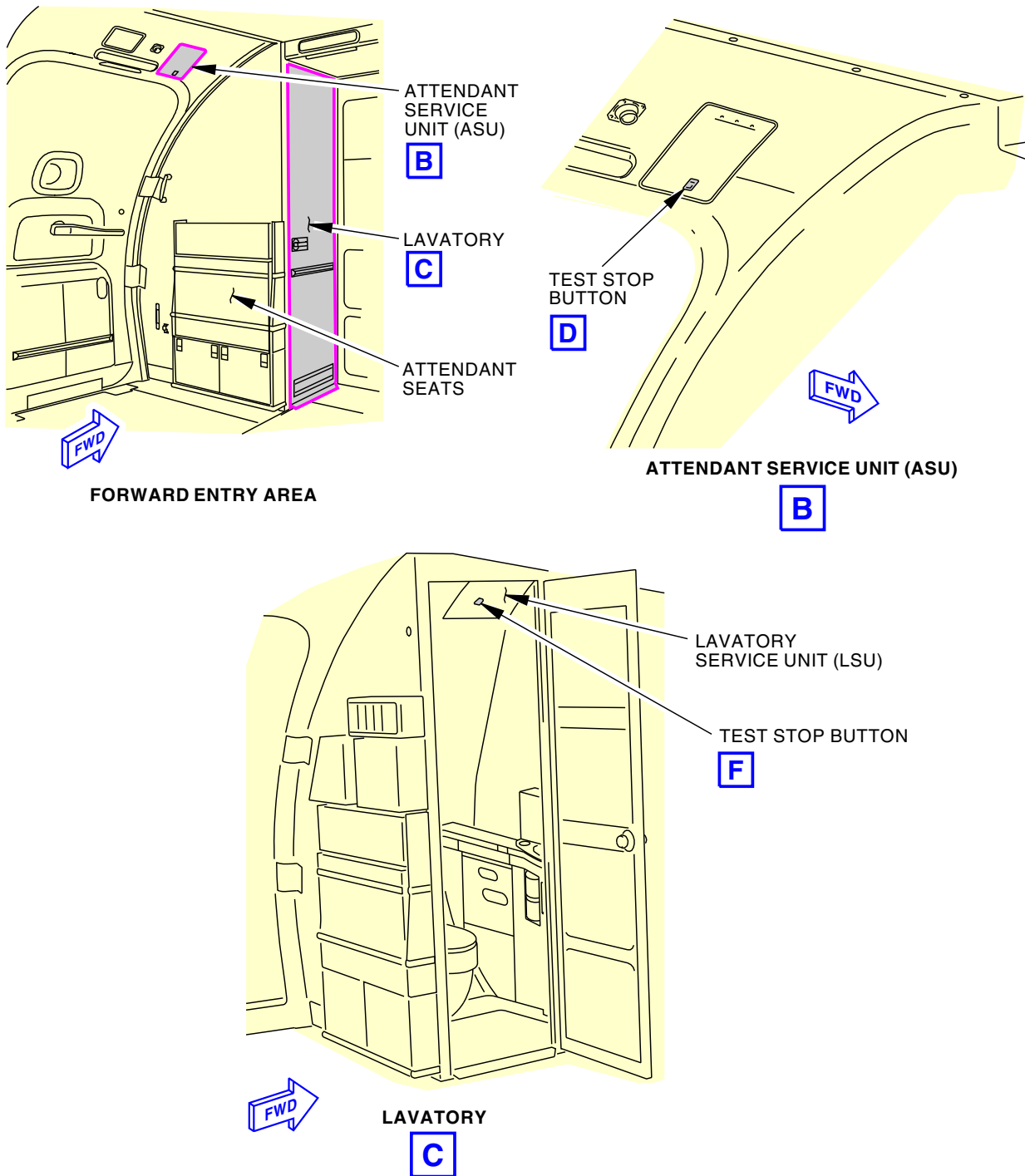
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-00

Page 511
Sep 15/2021



2813930 S0000647970_V1

Passenger Oxygen Mask Box Door Operation
Figure 503/35-22-00-990-803 (Sheet 2 of 5)

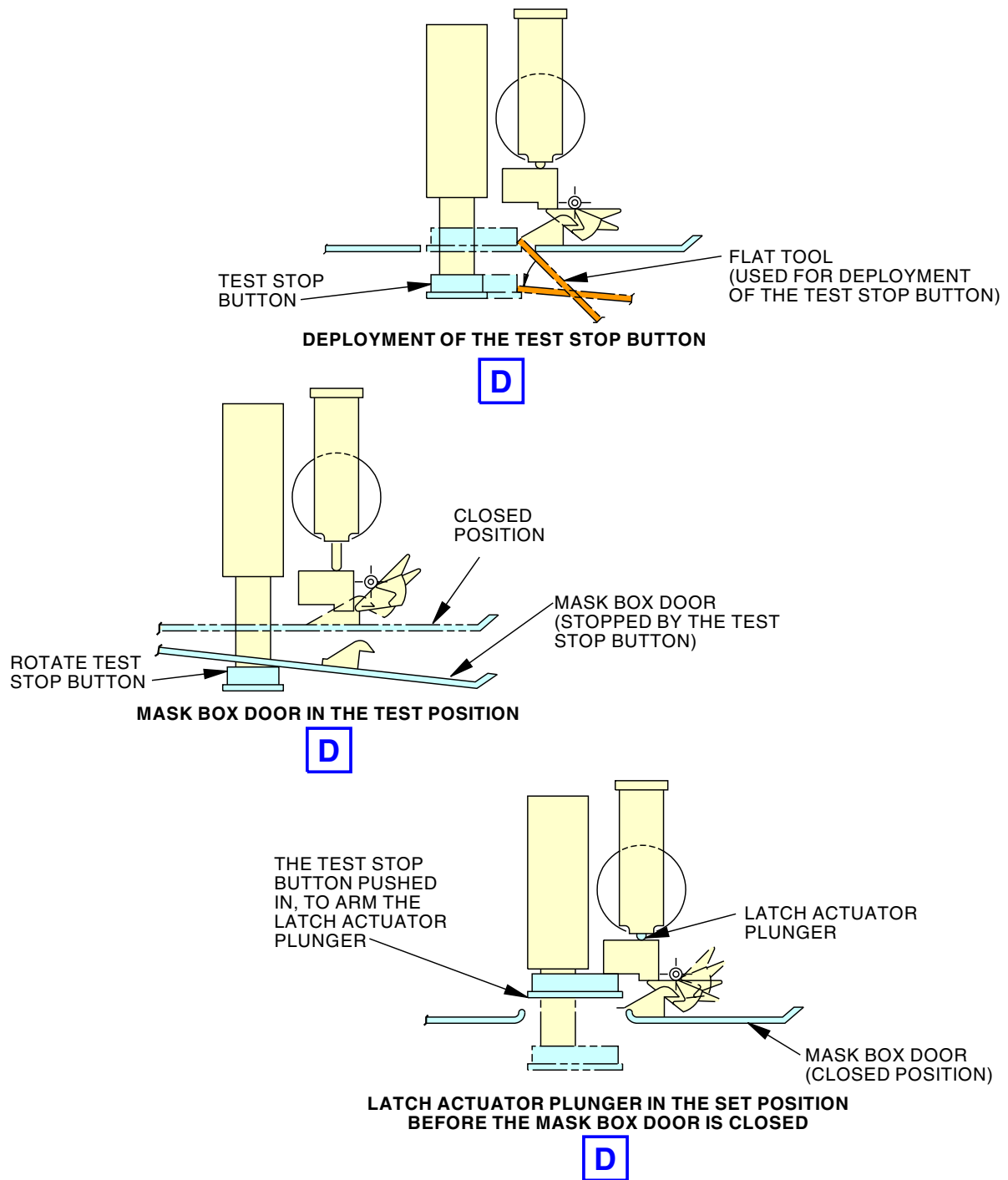
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-00

Page 512
Sep 15/2021



2414950 S00061536658_V1

Passenger Oxygen Mask Box Door Operation
Figure 503/35-22-00-990-803 (Sheet 3 of 5)

EFFECTIVITY
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D633AM101-SIA

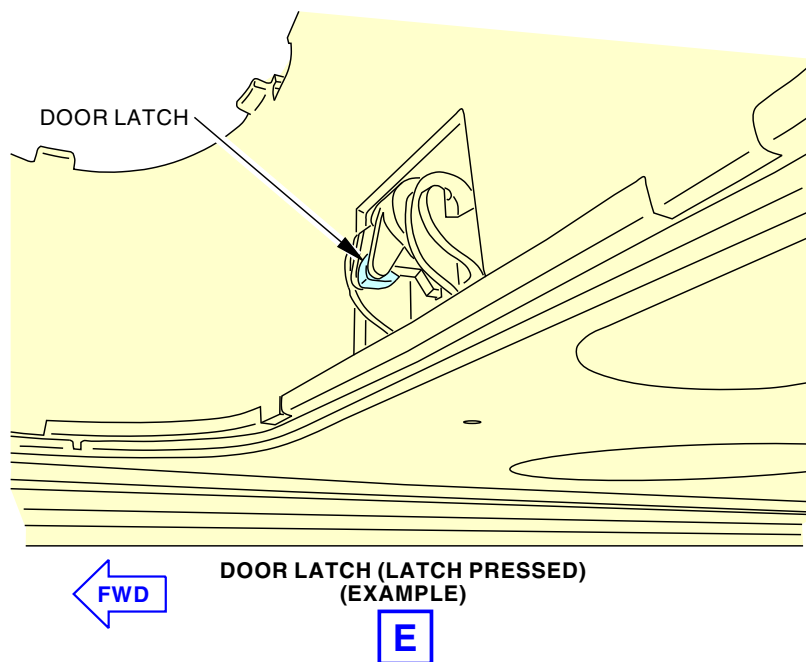
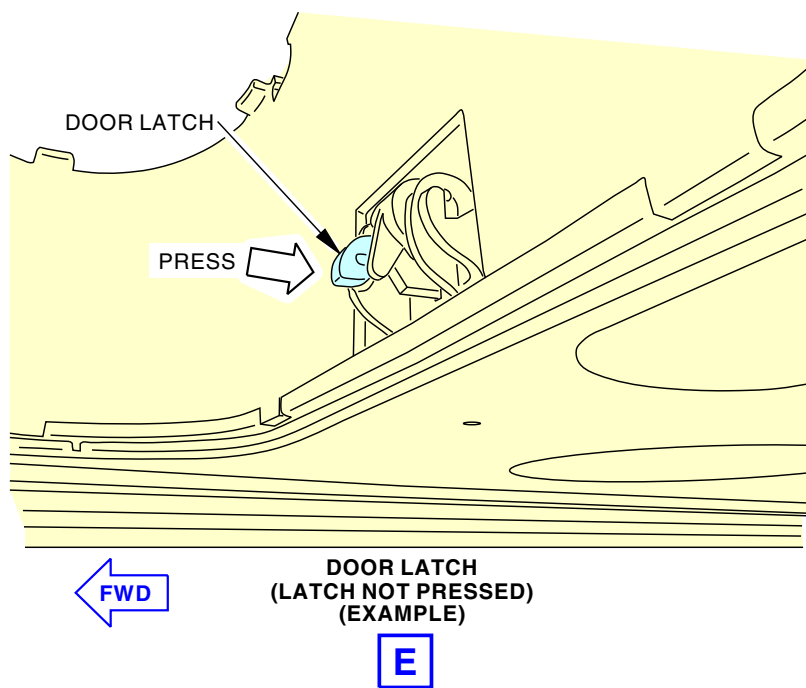
ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-00

Page 513
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL



2414951 S00061536659_V1

Passenger Oxygen Mask Box Door Operation
Figure 503/35-22-00-990-803 (Sheet 4 of 5)

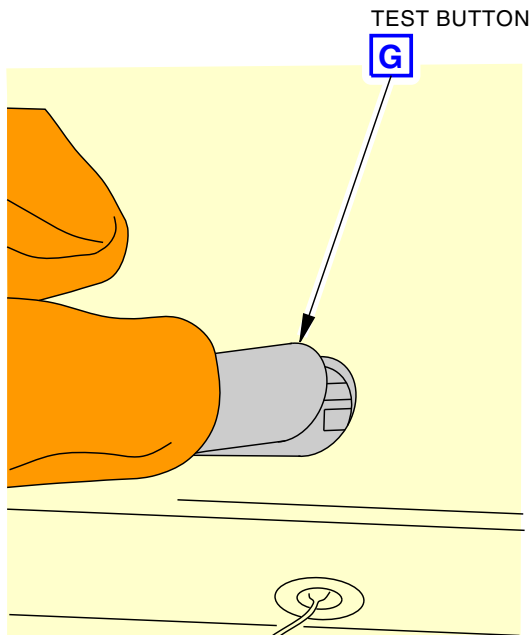
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SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

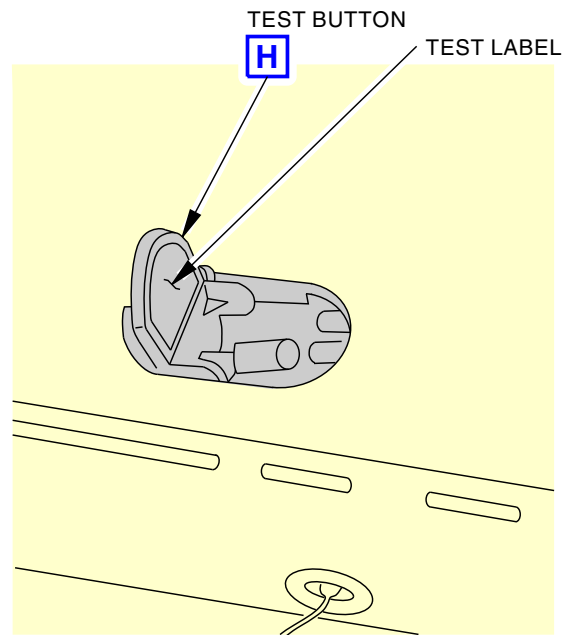
35-22-00

Page 514
Sep 15/2021



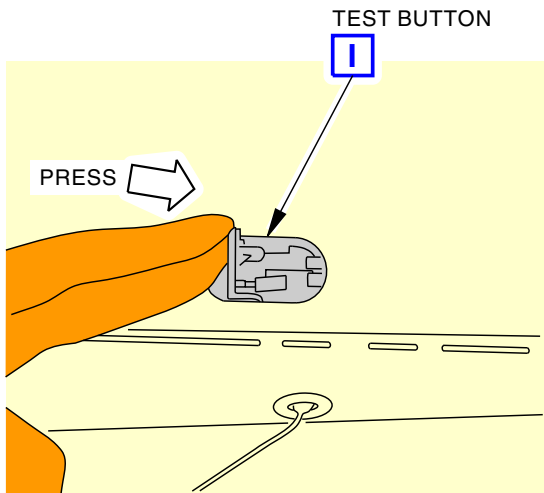
PRESS THE SIDE OF THE TEST
BUTTON AS SHOWN

F



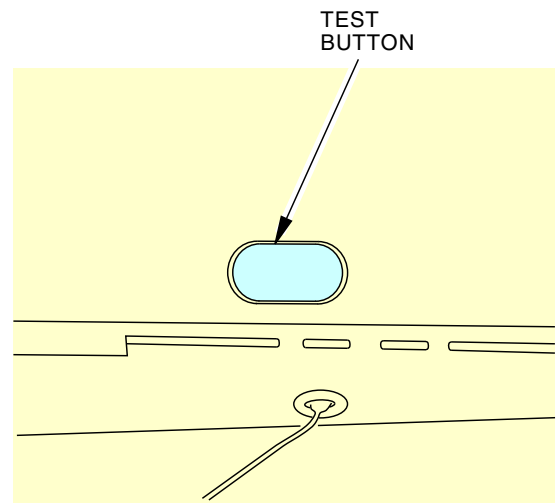
TEST LABEL IS EXPOSED WHEN THE TEST
BUTTON IS IN THE TEST POSITION

G



PUSH THE END OF THE TEST BUTTON TO RETURN
THE BUTTON TO NORMAL OPERATING POSITION

H



TEST BUTTON IN NORMAL OPERATING POSITION

I

2813947 S0000647971_V1

Passenger Oxygen Mask Box Door Operation
Figure 503/35-22-00-990-803 (Sheet 5 of 5)

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-00

Page 515
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

TASK 35-22-00-700-802

3. **Passenger Oxygen System Manual Deploy Operational Test**

(Figure 501 and Figure 503)

NOTE: This procedure is a scheduled maintenance task.

A. General

(1) This task is for the operational test of the manual deployment of the passenger oxygen system.

B. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (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
COM-14099	Test Stop Key Assy Part #: 70698 Supplier: 16115

D. Consumable Materials

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

E. Location Zones

Zone	Area
200	Upper Half of Fuselage
212	Flight Compartment - Right

F. Prepare for the Test

SUBTASK 35-22-00-910-002

(1) Do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-22-00-860-024

(2) Do these steps to prepare the test stops of each oxygen box door of the attendant stations and galleys.

- (a) Pull the test stop button out to the limit of travel.
- (b) Turn the test stop button counterclockwise 90 degrees to the test stop position.
- (c) Do a check to make sure that 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. This will cause the oxygen masks to deploy during the operational test.

SUBTASK 35-22-00-860-021

(3) Do this step to prepare the test stops of each oxygen box door of the lavatories:

- (a) Push the side of the test stop button until the button moves into the test position.

NOTE: A red test label is exposed to indicate oxygen box is in the test position.

SUBTASK 35-22-00-860-010

(4) Install the test stop key assembly, COM-14099, or masking tape, G02311, to the oxygen mask door of each Passenger Service Unit (PSU) as follows:

EFFECTIVITY
SIA ALL

35-22-00

D633AM101-SIA

Page 516
Jan 15/2023



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

- (a) If you use the test stop key assembly, COM-14099, make sure that the tool is installed through the slot in the door.

NOTE: The tool must fully engage the latch of the door latch actuator.

- (b) If you use masking tape, G02311, install it to let the door partially open 1.0 ± 0.5 in. (2.5 ± 1.3 cm).

NOTE: It is not necessary to have the oxygen door fully open for this test.

SUBTASK 35-22-00-860-011

- (5) Do these steps to clear the Master Caution System:
- (a) On the P7 light shield, push one of the two MASTER CAUTION lights.
 - (b) Make sure that the two MASTER CAUTION annunciators do not stay on.
 - (c) Make sure that the OVERHEAD annunciation on the right master caution display does not come on.

G. Manual Deploy Operational Test

SUBTASK 35-22-00-860-012

- (1) Do these steps for the ASU and LSUs of the passenger cabin:
- (a) Close and latch the oxygen box door.
 - 1) Use a small flat tool to push the door latch lever up.

NOTE: The door latch lever is forward of the test stop button.
 - 2) Push the door closed.

NOTE: The latch will usually make a "click" noise when it fully engages.
 - (b) Pull the test stop button out to its travel limit.
 - (c) Turn the test stop button counterclockwise 90 degrees to the test stop position.

SUBTASK 35-22-00-860-013

- (2) Do these steps for the underbin PSUs of the passenger cabin:
- (a) Do these steps to close and latch the oxygen box door.
 - 1) Hold the oxygen mask door of the PSU to the almost closed position.
 - 2) If you used the test stop key assembly, COM-14099, disengage the tool from the door latch actuator.
 - 3) If you used the masking tape, G02311, remove it.
 - 4) Push the door latch fully aft to arm the door latch actuator.



DO NOT CATCH THE OXYGEN MASK ITEMS BETWEEN THE DOOR AND THE OXYGEN BOX. DO NOT CATCH THE OXYGEN MASK ITEMS BETWEEN THE DOOR AND THE ACTUATOR MOUNTING BRACKET. MAKE SURE THAT NO ITEMS ARE CAUGHT. IF YOU CATCH THE OXYGEN MASK ITEMS, YOU CAN CAUSE DAMAGE TO THE ITEMS.

- 5) Close the oxygen mask door until the door latch/actuator fully engages.

NOTE: The latch will usually make a "click" noise when it fully engages.
- 6) Make sure that the door is aligned with the PSU structure.

NOTE: A misaligned (misfired) door shows that part of the mask assembly is between the door, and the latch/actuator or the oxygen box.



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

- (b) Install the test stop key assembly, COM-14099, or masking tape, G02311, to the oxygen mask door of each PSU again as follows:
- 1) If you use the test stop key assembly, COM-14099, make sure that the tool is installed through the slot in the door.
NOTE: The tool must fully engage the PSU door latch actuator.
 - 2) If you use a masking tape, G02311, install it to let the door partially open 1.0 ± 0.5 in. (2.5 ± 1.3 cm).

SUBTASK 35-22-00-860-014

- (3) 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 35-22-00-720-021

- (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	10	C00783	OXYGEN PASS LEFT

SUBTASK 35-22-00-860-015

- (5) 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	9	C00784	OXYGEN PASS RIGHT

SUBTASK 35-22-00-720-022

- (6) Move the PASS OXYGEN switch, on the P5-14 Oxygen System Module, to the momentary ON position and release the switch back to the NORMAL position (Figure 501).

SUBTASK 35-22-00-720-023

- (7) Make sure that the PASS OXY ON light on the, on the P5-14 Oxygen System Module, panel comes on.

NOTE: The MASTER CAUTION lights and OVERHEAD annunciation indicator on the master caution display can come on. If these indicators on the glareshield panel do not come on, it does not indicate an unserviceable condition.

SUBTASK 35-22-00-720-024

- (8) Make sure that the oxygen box doors of the PSUs on the left side of the passenger cabin release and move down against the test stops.

SUBTASK 35-22-00-210-005

- (9) Make sure that all the oxygen box doors on the right side PSUs stay latched.

SUBTASK 35-22-00-210-006

- (10) Make sure that the right aft attendant oxygen module door unlatched.

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-00

Page 518
Jan 15/2023



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-22-00-720-025

- (11) 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 35-22-00-720-026

- (12) Make sure that the PASS OXY ON light, on the P5-14 Oxygen System Module, goes off.

SUBTASK 35-22-00-720-027

- (13) 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 35-22-00-720-028

- (14) Make sure that the PASS OXY ON light, on the P5-14 Oxygen System Module, stays off.

SUBTASK 35-22-00-720-029

- (15) Move the PASS OXYGEN switch, on the P5-14 Oxygen System Module, to the momentary ON position and release back to the NORMAL position.

SUBTASK 35-22-00-720-030

- (16) Make sure that the PASS OXY ON light, on the P5-14 Oxygen System Module, comes on.

SUBTASK 35-22-00-720-031

- (17) Make sure that the oxygen box doors of the PSUs on the right side of the passenger cabin release and move down against the test stops.

SUBTASK 35-22-00-720-032

- (18) 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

SUBTASK 35-22-00-720-033

- (19) Make sure that the PASS OXY ON light, on the P5-14 Oxygen System Module, goes off.

SUBTASK 35-22-00-860-016

- (20) Do these steps to close the oxygen box doors of each attendant station and galley:

- Hold the oxygen box door in the closed position.
- Turn the test stop button 90 degrees clockwise.
- Push the test stop button up until the sound of a click heard.
NOTE: The sound of the click shows that the actuator is set.
- Release the test stop button.
- Fully close and latch the mask box door.
NOTE: The latch will usually make a "click" noise when it fully engages.

SUBTASK 35-22-00-860-023

- (21) Do these steps to close the oxygen box doors of each lavatory:

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ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-00

Page 519
Jan 15/2023



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

- (a) Hold the oxygen box door in the closed position.
- (b) Push the test stop button until it is flat on the oxygen box door.

SUBTASK 35-22-00-860-017

- (22) Do these steps to close the door of the oxygen boxes of the underbin PSUs of the passenger cabin:
- (a) Hold the mask door of the PSU oxygen box to the almost closed position.
 - (b) Remove the test stop key assembly, COM-14099, or masking tape, G02311, from the oxygen mask door of each PSU.
 - (c) Push the door latch fully aft to arm the door latch actuator.



DO NOT CATCH THE OXYGEN MASK ITEMS BETWEEN THE DOOR AND THE OXYGEN BOX. DO NOT CATCH THE OXYGEN MASK ITEMS BETWEEN THE DOOR AND THE ACTUATOR MOUNTING BRACKET. MAKE SURE THAT NO ITEMS ARE CAUGHT. IF YOU CATCH THE OXYGEN MASK ITEMS, YOU CAN CAUSE DAMAGE TO THE ITEMS.

- (d) Close the oxygen mask door until the door latch/actuator engages as follows:

NOTE: The latch will usually make a "click" noise when it fully engages.

- 1) Make sure that the door is aligned with the PSU structure.

NOTE: A misaligned (misfired) door indicates that part of the mask assembly is between the door, or the latch/actuator, and the oxygen box.

H. Put the Airplane Back to Its Usual Condition

SUBTASK 35-22-00-860-018

- (1) Remove the safety tags and close these circuit breakers:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND
F	10	C00783	OXYGEN PASS LEFT

————— END OF TASK —————

TASK 35-22-00-210-801

4. Oxygen Generator Visual Inspection

NOTE: This procedure is a scheduled maintenance task.

A. General

- (1) This task is for the visual inspection of the oxygen generator.

B. References

Reference	Title
25-23-61-000-801	Passenger Service Unit - Removal (P/B 401)
25-23-61-400-801	Passenger Service Unit - Installation (P/B 401)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-11-000-802	PSU Oxygen Generator Removal (P/B 401)
35-22-11-000-803	ASU Oxygen Generator Removal (P/B 401)
35-22-11-400-801	Oxygen Generator Activation (P/B 201)
35-22-11-400-802	PSU Oxygen Generator Installation (P/B 401)

EFFECTIVITY
SIA ALL

35-22-00

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Page 520
Jan 15/2023



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

(Continued)

Reference	Title
35-22-11-400-803	ASU Oxygen Generator Installation (P/B 401)
35-22-31-420-801	ASU 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

E. Prepare for the Inspection

SUBTASK 35-22-00-910-003

- (1) 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 generator as follows:
- Get access to the lower the applicable passenger Passenger Service Unit (PSU) (TASK 25-23-61-000-801).
 - To get access to the Attendant Service Units (ASU), do these steps:
 - Go to the applicable ASU.
 - Apply masking tape, G02311, to the applicable door.
 - Put a tool into the latch access hole.
 - Push up on the tool to operate the door latch.
 - Open the oxygen box door.
 - Let the door rest on masking tape, G02311.

F. Oxygen Generator Visual Inspection

SUBTASK 35-22-00-210-001

- (1) Make sure that the heat-sensitive band on the oxygen generator is not black.

NOTE: If the heat-sensitive band on the oxygen generator is not black, the oxygen generator is in a serviceable condition.

SUBTASK 35-22-00-210-002

- (2) If the heat-sensitive band on the oxygen generator is black, replace the applicable oxygen generator as follows:
- If you will replace a PSU oxygen generator, do these tasks:
 - PSU Oxygen Generator Removal, TASK 35-22-11-000-802
 - PSU Oxygen Generator Installation, TASK 35-22-11-400-802.
 - If you will replace an ASU oxygen generator, do these tasks:
 - ASU Oxygen Generator Removal, TASK 35-22-11-000-803
 - ASU Oxygen Generator Installation, TASK 35-22-11-400-803
 - ASU Oxygen Mask Packing, TASK 35-22-31-420-801.

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-00

Page 521
Sep 15/2023



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-22-00-080-002

- (3) Make sure that the safety pin is removed from the chemical oxygen generator (TASK 35-22-11-400-801).

G. Put the Airplane Back to Its Usual Condition

SUBTASK 35-22-00-410-003

- (1) Close the access for the oxygen generator as follows:
 - (a) Close the applicable passenger PSU (TASK 25-23-61-400-801).
 - (b) For the ASU, do these steps to close the oxygen box door:
 - 1) Hold the oxygen box door in the closed position.
 - 2) Push the reset lever on the latch actuator plunger to set the actuator again.
 - 3) Close and latch the oxygen box door.

NOTE: The latch will usually make a "click" noise when it fully engages.
 - 4) Remove the masking tape from the oxygen box door (if installed).
 - 5) Do a visual check of the door fit.
 - a) Make sure that the oxygen equipment is free of the oxygen box door or actuator.

————— END OF TASK —————

TASK 35-22-00-210-802

5. Oxygen Cylinder (CDS) Visual Inspection

(Figure 504)

NOTE: This procedure is a scheduled maintenance task.

A. General

- (1) This task is for the visual inspection of the oxygen cylinder.

B. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-51-000-801	LSU Oxygen Cylinder (CDS) Removal (P/B 401)
35-22-51-400-801	LSU Oxygen Cylinder (CDS) Installation (P/B 401)
35-22-51-440-801	Oxygen Cylinder (CDS) Activation (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

E. Prepare for the Inspection

SUBTASK 35-22-00-910-004

- (1) Do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-22-00-010-002

- (2) Get access to the oxygen cylinder as follows:

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ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-00

Page 522
Sep 15/2023



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

- (a) Gain access to the applicable Lavatory Service Unit (LSU).
- (b) Apply masking tape, G02311, to the applicable door.
- (c) Put a tool into the latch access hole.
- (d) Push up on the tool to operate the door latch.
- (e) Open the oxygen box door.
- (f) Let the door rest on masking tape, G02311.

F. Oxygen Cylinder (CDS) Visual Inspection

SUBTASK 35-22-00-210-003

- (1) Do these checks at the actuator assembly on the oxygen cylinder.
 - (a) Make sure that the discharge indicator tape has no damage or holes.
NOTE: A damaged discharge indicator tape will show that an over pressure condition caused oxygen to flow from the relief port.
 - (b) Make sure that the lanyard assembly is fully engaged in the actuator assembly.
NOTE: A disengaged lanyard assembly will show that an oxygen cylinder release caused oxygen to flow from the masks.

SUBTASK 35-22-00-900-001

- (2) If the discharge indicator tape is damaged or the lanyard assembly is disengaged, replace the applicable oxygen cylinder (TASK 35-22-51-000-801 and TASK 35-22-51-400-801).

SUBTASK 35-22-00-210-004

- (3) Make sure that the safety pin has been removed from the oxygen cylinder (TASK 35-22-51-440-801).

G. Put the Airplane Back to Its Usual Condition

SUBTASK 35-22-00-410-004

- (1) Close the access for the oxygen cylinder as follows:
 - (a) Hold the oxygen box door in the closed position.
 - (b) Push the reset lever on the latch actuator plunger to set the actuator again.
 - (c) Close and latch the oxygen box door.
NOTE: The latch will usually make a "click" noise when it fully engages.
 - (d) Remove the masking tape from the oxygen box door (if installed).
 - (e) Do a visual check of the door fit.
 - (f) Make sure that the oxygen equipment is free of the oxygen box door or actuator.

———— **END OF TASK** ————

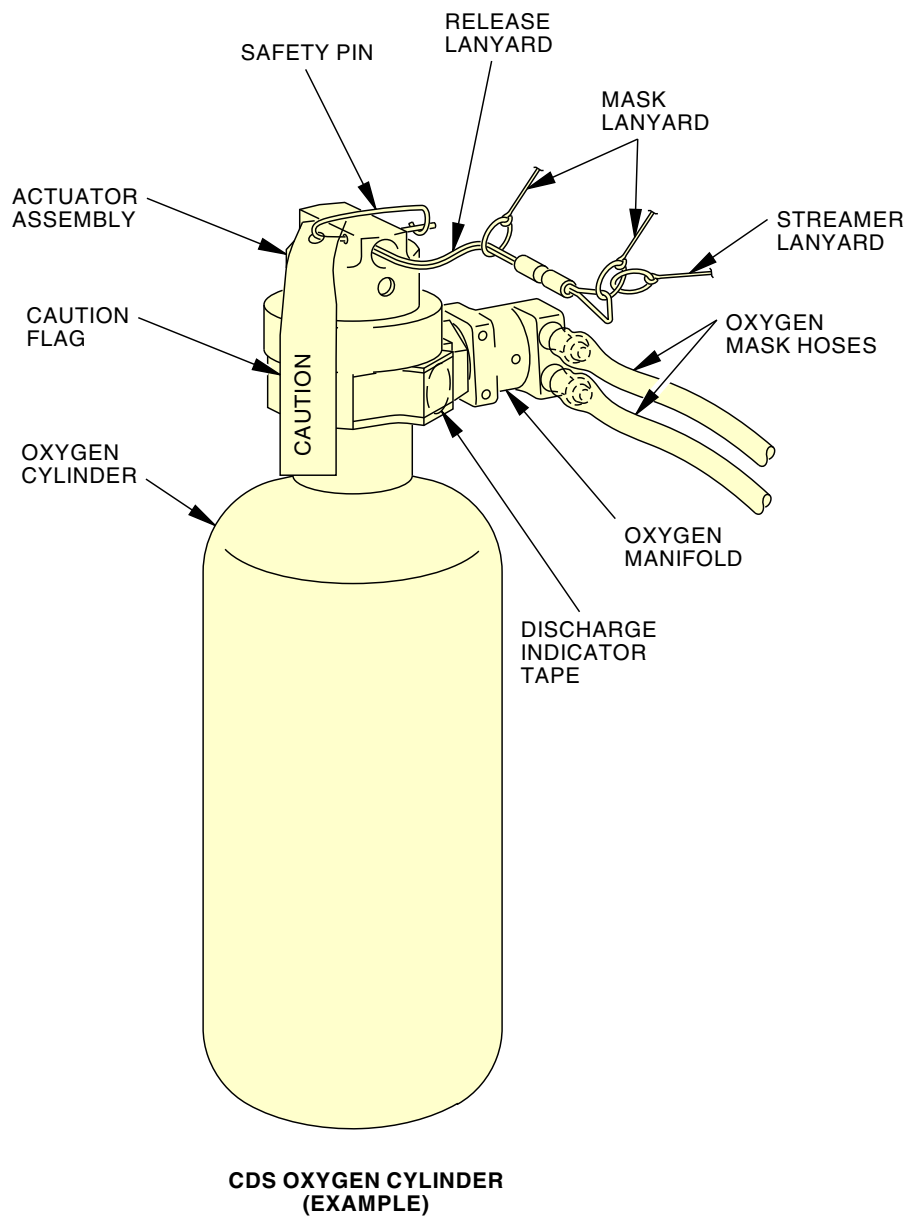
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-00

Page 523
Sep 15/2023



2414952 S00061536663_V1

Oxygen Cylinder (CDS) Activation/Deactivation
Figure 504/35-22-00-990-804

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ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-00

Page 524
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

OXYGEN GENERATOR - MAINTENANCE PRACTICES

1. General

- A. This procedure contains scheduled maintenance task data.
- B. This procedure has these tasks:
 - (1) A deactivation of the oxygen generator
 - (2) An activation of the oxygen generator.
- 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 35-22-11-000-801

2. Oxygen Generator Deactivation

(Figure 201)

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
35-22-11-000-802	PSU Oxygen Generator Removal (P/B 401)
35-22-11-000-803	ASU Oxygen Generator Removal (P/B 401)
35-22-11-400-802	PSU Oxygen Generator Installation (P/B 401)
35-22-11-400-803	ASU Oxygen Generator Installation (P/B 401)
35-22-31-420-801	ASU Oxygen Mask Packing (P/B 201)

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-752	Safety Pin and Flag - Chemical Oxygen Generator
Part #: C35003-10	Supplier: 81205
Part #: C35003-20	Supplier: 81205
Part #: E71401-00	Supplier: D1379

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-11

Page 201
Jan 15/2023



**737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL**

(Continued)

Reference	Description
COM-1935	Pliers - Firing Pin Retraction, Oxygen Generator Part #: C35004-1 Supplier: 81205 Part #: E71516-00 Supplier: D1379
SPL-1937	Equipment - Firing Pin Retraction, Oxygen Generators Part #: C35003-10 Supplier: 81205 Part #: C35003-20 Supplier: 81205 Part #: C35004-1 Supplier: 81205

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Oxygen generator	35-22-11-11-140	SIA ALL
		35-22-11-21-140	SIA ALL
		35-22-11-26-160	SIA ALL
		35-22-11-64A-050	SIA 001-007

D. Location Zones

Zone	Area
200	Upper Half of Fuselage

E. Prepare for the Deactivation

SUBTASK 35-22-11-010-001

(1) If it is necessary to get access to the oxygen generator [1], open the service unit.

(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 the rod up to release the cam latches.
- 3) Lower the PSU.

(b) For the Attendant Service Unit (ASU), do these steps:

- 1) Put a rod or flat tool into the latch access hole or door clearance.
- 2) Push the tool up to release the door latch.
- 3) Open the oxygen box door.
- 4) Let the oxygen masks come out.

SUBTASK 35-22-11-210-001

(2) Do these checks before you deactivate the oxygen generator [1]:

(a) Make sure that the heat-sensitive band on the oxygen generator [1] is not black.

NOTE: The oxygen generator has fired if the heat-sensitive band is black.

(b) Make sure that the release pin [2] or safety pin [6] is installed in the firing pin [3].

NOTE: If the firing pin is in the fired position (the safety pin cannot be installed), the oxygen generator fired or it is damaged.

(c) Make sure that the oxygen generator [1] is not damaged.

SUBTASK 35-22-11-020-001

(3) If the oxygen generator [1] fired or is damaged, replace the oxygen generator [1].

(a) Replace a PSU oxygen generator [1], these are the tasks:

PSU Oxygen Generator Removal, TASK 35-22-11-000-802,

EFFECTIVITY
SIA ALL

35-22-11

D633AM101-SIA

Page 202
Sep 15/2022



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

PSU Oxygen Generator Installation, TASK 35-22-11-400-802.

- (b) Replace an ASU oxygen generator [1], these are the tasks:
ASU Oxygen Generator Removal, TASK 35-22-11-000-803,
ASU Oxygen Generator Installation, TASK 35-22-11-400-803.

SUBTASK 35-22-11-040-001

- (4) If the oxygen generator [1] did not fire, deactivate the oxygen generator [1].

F. Oxygen Generator Deactivation

SUBTASK 35-22-11-040-002



INSTALL A SAFETY PIN WITH A WARNING FLAG ATTACHED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF YOU REMOVE THE RELEASE PIN AND IF THE SAFETY PIN IS NOT INSTALLED.



A FIRED OXYGEN GENERATOR GETS VERY HOT 450°F, (232°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).

- (1) Do these steps to deactivate the oxygen generator [1]:



HOLD THE RELEASE PIN INTO THE FIRING PIN WITH YOUR HAND. IF THE RELEASE PIN COMES OUT OF THE FIRING PIN, THE GENERATOR WILL FIRE. THE GENERATOR CAN BE HOT AND CAN BURN YOU.

- (a) Put the pin retraction pliers [4] between the release pin [2] and firing pin spring case [5].
- 1) Use the firing pin retraction pliers, COM-1935, and safety pin and flag, COM-752, for the Draeger and B/E Aerospace oxygen generators [1].
 - 2) Use the firing pin retraction equipment and safety pin, SPL-1937, for the Puritan Bennett, B/E Aerospace, and AvOx Systems/Scott Aviation oxygen generators [1].
- (b) Carefully move the release pin [2] and firing pin [3] away from the firing pin spring case [5] with the pin retraction pliers [4].
- 1) Do not release the pin retraction pliers.
- (c) Install the safety pin [6] into the hole of the firing pin [3] that is nearest to the oxygen generator [1].
- 1) Make sure that the safety pin [6] is between the firing pin [3] and firing pin spring case [5].
 - 2) Make sure that you install the safety pin [6] in the smaller of the two holes of the firing pin [3].
- (d) If it is necessary, remove the release pin [2].
- (e) Carefully release the pin retraction pliers [4] and remove them from the oxygen generator [1].

SUBTASK 35-22-11-410-001

- (2) If no more maintenance is necessary, close the service unit.
- (a) For the PSU, push the PSU panel up to engage the cam latches.
- NOTE: The latches will make a "click" noise when they fully engage.

EFFECTIVITY
SIA ALL

35-22-11

D633AM101-SIA

Page 203
Jan 15/2023



**737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL**

(b) For the ASU, do these steps:

- 1) Do this task: ASU Oxygen Mask Packing, TASK 35-22-31-420-801.
- 2) Close the oxygen box door and push on it to engage the door latch.

NOTE: The latch will usually make a "click" noise when it fully engages.

SUBTASK 35-22-11-970-001

(3) Write in the airplane records to show that the oxygen generators [1] are deactivated.

NOTE: Before the oxygen generators can be used, they must be activated.

———— **END OF TASK** ————

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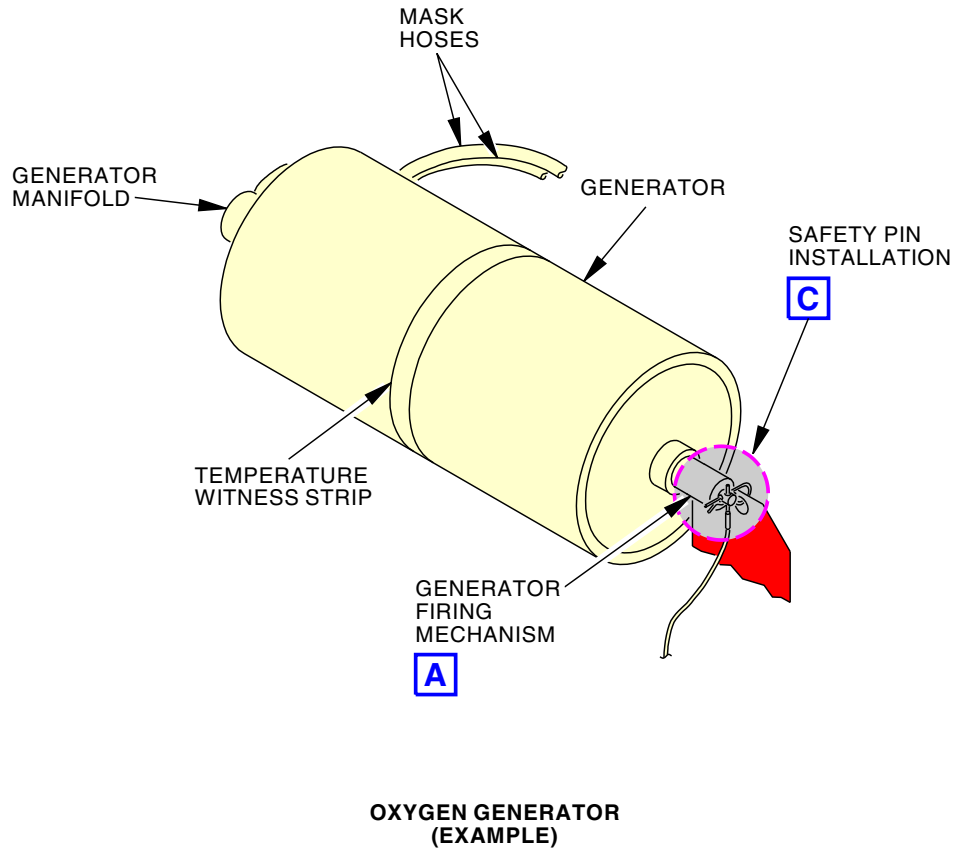
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-11

Page 204
Sep 15/2022

BOEING
737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL



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Oxygen Generator Activation/Deactivation
Figure 201/35-22-11-990-801 (Sheet 1 of 3)

EFFECTIVITY
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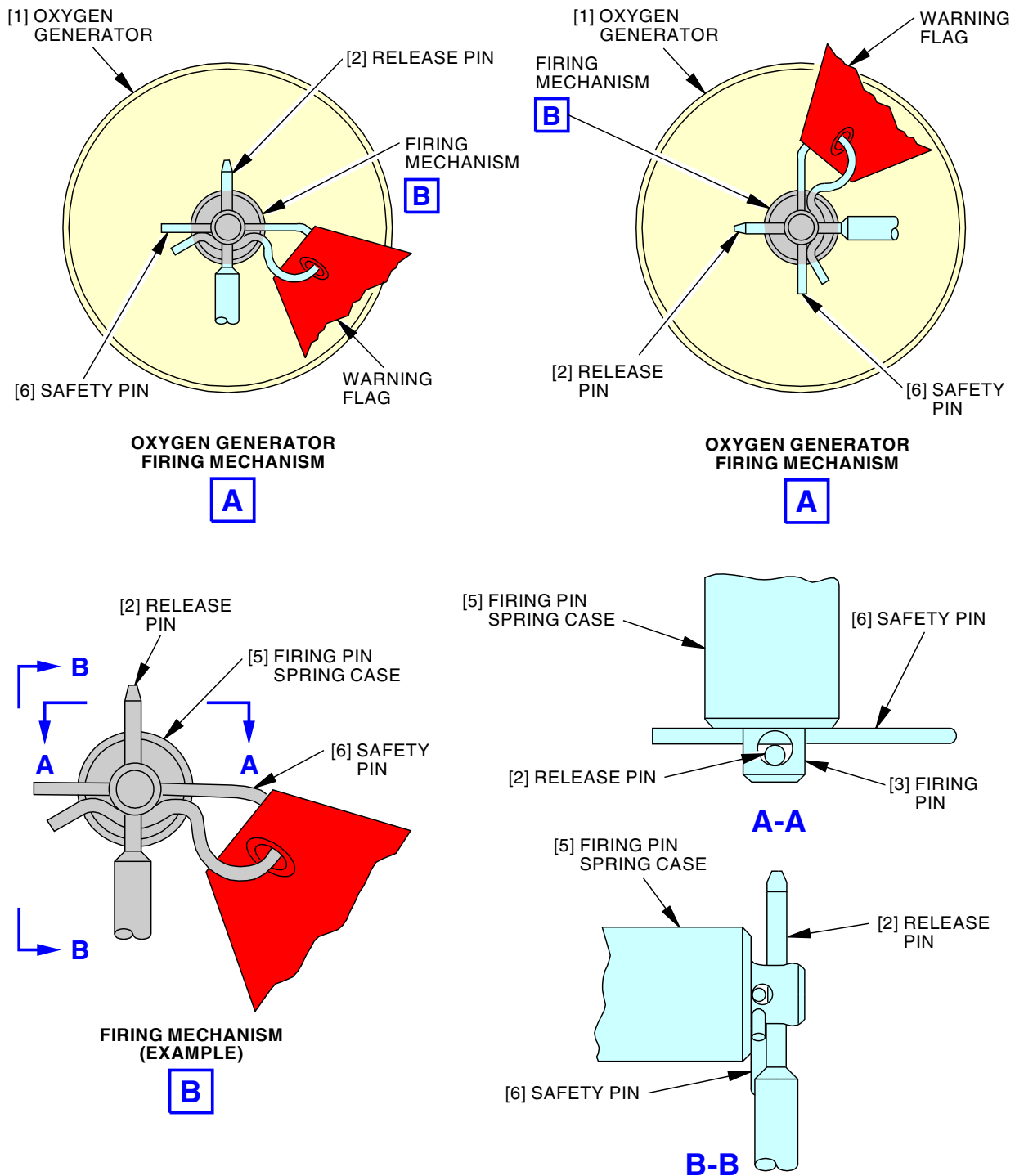
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-11

Page 205
Sep 15/2021

**737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL**



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**Oxygen Generator Activation/Deactivation
Figure 201/35-22-11-990-801 (Sheet 2 of 3)**

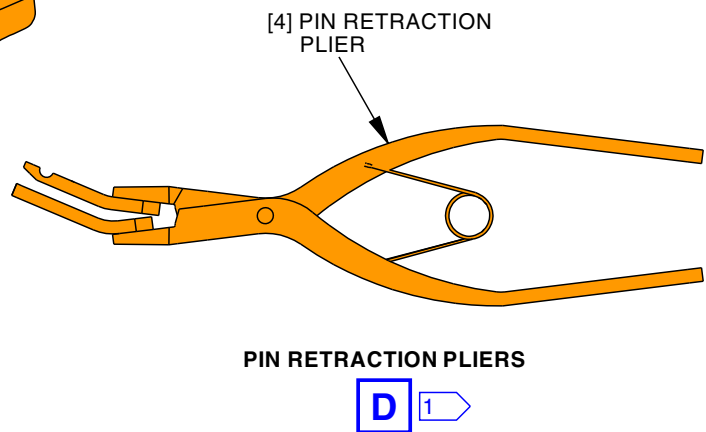
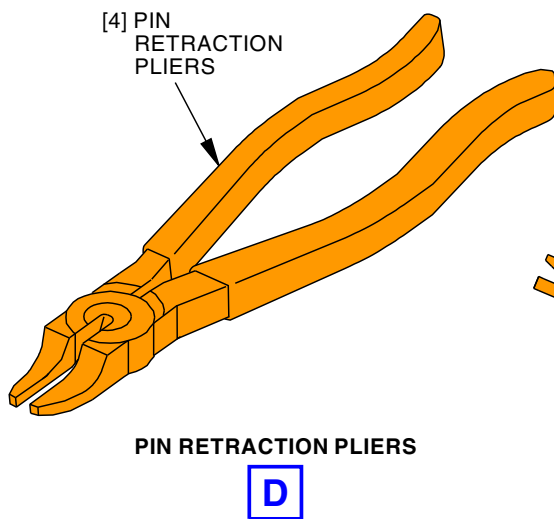
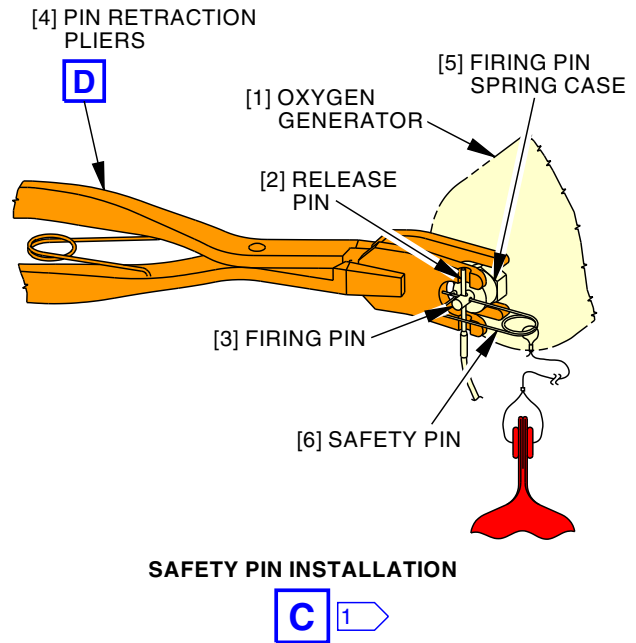
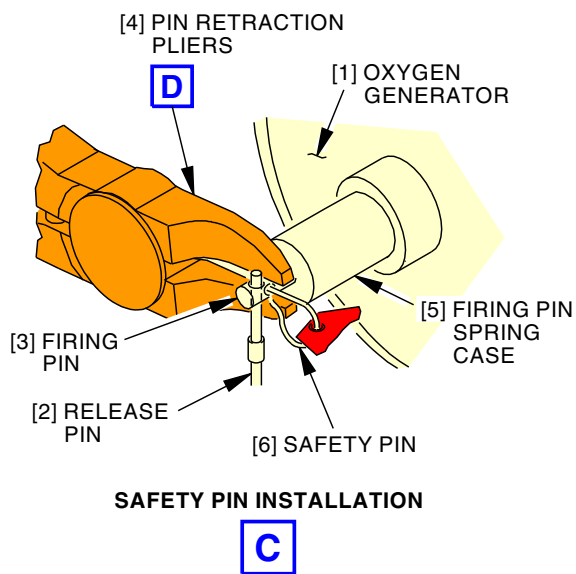
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-11

Page 206
Sep 15/2021



1 PURITAN BENNETT, B/E AEROSPACE, SCOTT AND AVOX OXYGEN GENERATORS.

2414955 S00061536669_V2

Oxygen Generator Activation/Deactivation
Figure 201/35-22-11-990-801 (Sheet 3 of 3)

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-11

Page 207
Sep 15/2022



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

TASK 35-22-11-400-801

3. **Oxygen Generator Activation**

(Figure 201)

NOTE: This procedure is a scheduled maintenance task.

A. **References**

Reference	Title
35-22-11-000-802	PSU Oxygen Generator Removal (P/B 401)
35-22-11-000-803	ASU Oxygen Generator Removal (P/B 401)
35-22-11-400-802	PSU Oxygen Generator Installation (P/B 401)
35-22-11-400-803	ASU Oxygen Generator Installation (P/B 401)
35-22-31-420-801	ASU Oxygen Mask Packing (P/B 201)

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-1935	Pliers - Firing Pin Retraction, Oxygen Generator Part #: C35004-1 Supplier: 81205 Part #: E71516-00 Supplier: D1379
SPL-1937	Equipment - Firing Pin Retraction, Oxygen Generators Part #: C35003-10 Supplier: 81205 Part #: C35003-20 Supplier: 81205 Part #: C35004-1 Supplier: 81205

C. **Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Oxygen generator	35-22-11-11-140	SIA ALL
		35-22-11-21-140	SIA ALL
		35-22-11-26-160	SIA ALL
		35-22-11-64A-050	SIA 001-007

D. **Location Zones**

Zone	Area
200	Upper Half of Fuselage

E. **Prepare for the Activation**

SUBTASK 35-22-11-010-002

- (1) Open the service unit to get access to the oxygen generator [1].
 - (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 the rod up to release the cam latches.
 - 3) Lower the PSU.
 - (b) For the Attendant Service Unit (ASU), do these steps:
 - 1) Put a rod or flat tool into the latch access hole or door clearance.
 - 2) Push the tool up to release the door latch.
 - 3) Open the oxygen box door.

EFFECTIVITY
SIA ALL

D633AM101-SIA

35-22-11

Page 208
Sep 15/2022



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

- 4) Release the oxygen masks.

SUBTASK 35-22-11-010-003

- (2) Do these checks before you activate the oxygen generator [1]:
 - (a) Make sure that the heat-sensitive band on the oxygen generator [1] is not black.
NOTE: If the heat-sensitive band is black, the oxygen generator fired.
 - (b) Make sure that the safety pin [6] is installed in the firing pin [3] of the oxygen generator [1].
NOTE: If the firing pin is in the fire position (the safety pin cannot be installed), the oxygen generator fired or it is damaged.
 - (c) Make sure that the oxygen generator [1] is not damaged.

SUBTASK 35-22-11-020-002

- (3) If the oxygen generator [1] fired or is damaged, replace the oxygen generator [1].
 - (a) Replace a PSU oxygen generator [1], these are the tasks:
PSU Oxygen Generator Removal, TASK 35-22-11-000-802,
PSU Oxygen Generator Installation, TASK 35-22-11-400-802.
 - (b) Replace an ASU oxygen generator [1], these are the tasks:
ASU Oxygen Generator Removal, TASK 35-22-11-000-803,
ASU Oxygen Generator Installation, TASK 35-22-11-400-803.

F. Oxygen Generator Activation

SUBTASK 35-22-11-410-002

- (1) Examine the routing of the cable of the release pin [2], these are the tasks for the correct installation of the release cable:
ASU Oxygen Generator Installation, TASK 35-22-11-400-803,
PSU Oxygen Generator Installation, TASK 35-22-11-400-802.
 - (a) Make sure that the release pin [2] and cable pull straight from the firing pin spring case [5] when the masks pull from the PSU.

SUBTASK 35-22-11-210-002

- (2) Examine the release pin [2].
 - (a) If the release pin [2] is damaged, bent or has corrosion, replace it.

SUBTASK 35-22-11-410-003



A FIRED OXYGEN GENERATOR GETS VERY HOT 450°F, (232°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).

- (3) Do these steps to activate the oxygen generator [1]:
 - (a) If it is necessary, install the safety pin [6] in the firing pin [3] of the oxygen generator [1].
 - (b) If it is necessary, remove the secondary safety device from the firing pin [3] of the oxygen generator [1].
 - 1) Use a secondary safety device and safety pin for the transportation of spare oxygen generators [1].
 - 2) Remove the secondary safety device from the firing mechanism before the release pin is installed.

EFFECTIVITY
SIA ALL

35-22-11

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Page 209
Sep 15/2022



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

- 3) Make sure that you remove the safety pin and secondary safety device before you put the oxygen box in-service.



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.

- (c) Align the release pin [2] and firing pin [3] to the installed positions and install the release pin [2] in the larger of the two holes of the firing pin [3].
- 1) Make sure that the shaft of the release pin extends fully through the firing pin of the generator.
- (d) Put the pin retraction pliers [4] between the release pin [2] and firing pin spring case [5] of the oxygen generator [1] and move the firing pin [3] away from the firing pin spring case [5] of the generator.
- 1) Use the firing pin retraction pliers, COM-1935, for the Draeger and B/E Aerospace oxygen generators [1].
 - 2) Use the firing pin retraction equipment and safety pin, SPL-1937, for the Puritan Bennett, B/E Aerospace, and AvOx Systems/Scott Aviation oxygen generators [1].
- (e) Make sure that the shaft of the release pin [2] extends fully through the firing pin [3] of the oxygen generator [1].
- (f) Carefully remove the safety pin [6] from the firing pin [3] of the oxygen generator [1].
- (g) Let the pin retraction pliers [4] go closed and remove the pliers.

SUBTASK 35-22-11-210-003



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.

- (4) Examine the routing of the cable of the release pin [2] again.
- (a) Make sure that the release pin and its cable will pull straight away from the firing pin spring case [5] when the oxygen masks are pulled from the PSU.

SUBTASK 35-22-11-410-004

- (5) Make sure that the shaft of the release pin [2] extends fully through the hole in the firing pin [3].

SUBTASK 35-22-11-410-005

- (6) If no more maintenance is necessary, close the applicable service unit.
- (a) For the PSU, push the PSU panel up to engage the cam latches.
NOTE: The latches will usually make a "click" noise when they fully engage.
 - (b) For the ASU or Lavatory Service Unit (LSU), do these steps:
 - 1) Do this task: ASU Oxygen Mask Packing, TASK 35-22-31-420-801.
 - 2) Close the oxygen box door and push on it to engage the door latch.
NOTE: The latch will usually make a "click" noise when it fully engages.

EFFECTIVITY
SIA ALL

D633AM101-SIA

35-22-11

Page 210
Jan 15/2023



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-22-11-970-002

(7) Write in the airplane records to show that the oxygen generators [1] are active.

———— **END OF TASK** ————

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-11

Page 211
Sep 15/2021



737-7/8/8200/9/10
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
- 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 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 35-22-11-000-802

2. PSU Oxygen Generator Removal

(Figure 401)

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
35-22-11-000-801	Oxygen Generator Deactivation (P/B 201)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Prepare the PSU Oxygen Generator(s) for Removal

SUBTASK 35-22-11-010-004

- (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
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-11

Page 401
Sep 15/2021



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-22-11-040-003



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/232°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 35-22-11-000-801.

NOTE: If the oxygen generator has fired, it is not necessary to deactivate the oxygen generator.

D. PSU Oxygen Generator Removal

NOTE: When you do the removal procedure, do not loosen or remove the cable pulleys on the PSU, if installed.

SUBTASK 35-22-11-020-003

- (1) Remove the oxygen supply line [6] from the oxygen generator [1].

SUBTASK 35-22-11-020-004

- (2) Remove the screws [3] from the straps [5].
 - (a) Keep the screws [3] for installation.

SUBTASK 35-22-11-020-005

- (3) Move the straps [5] away from the oxygen generator [1].

SUBTASK 35-22-11-020-006



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. YOU CANNOT ASSEMBLE IT AGAIN THUS IT IS DAMAGED.

- (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.

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-11

Page 402
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL



MAKE SURE THAT YOU OBEY ALL APPLICABLE REGULATORY REQUIREMENTS FOR THE TRANSPORT OF OXYGEN GENERATORS. IF THE SERVICE LIFE OF THE GENERATORS EXPIRES, YOU MUST FIRE THE GENERATORS AND MAKE SURE THAT THE OXIDIZER CORE IS EMPTY. DO THIS 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** ————

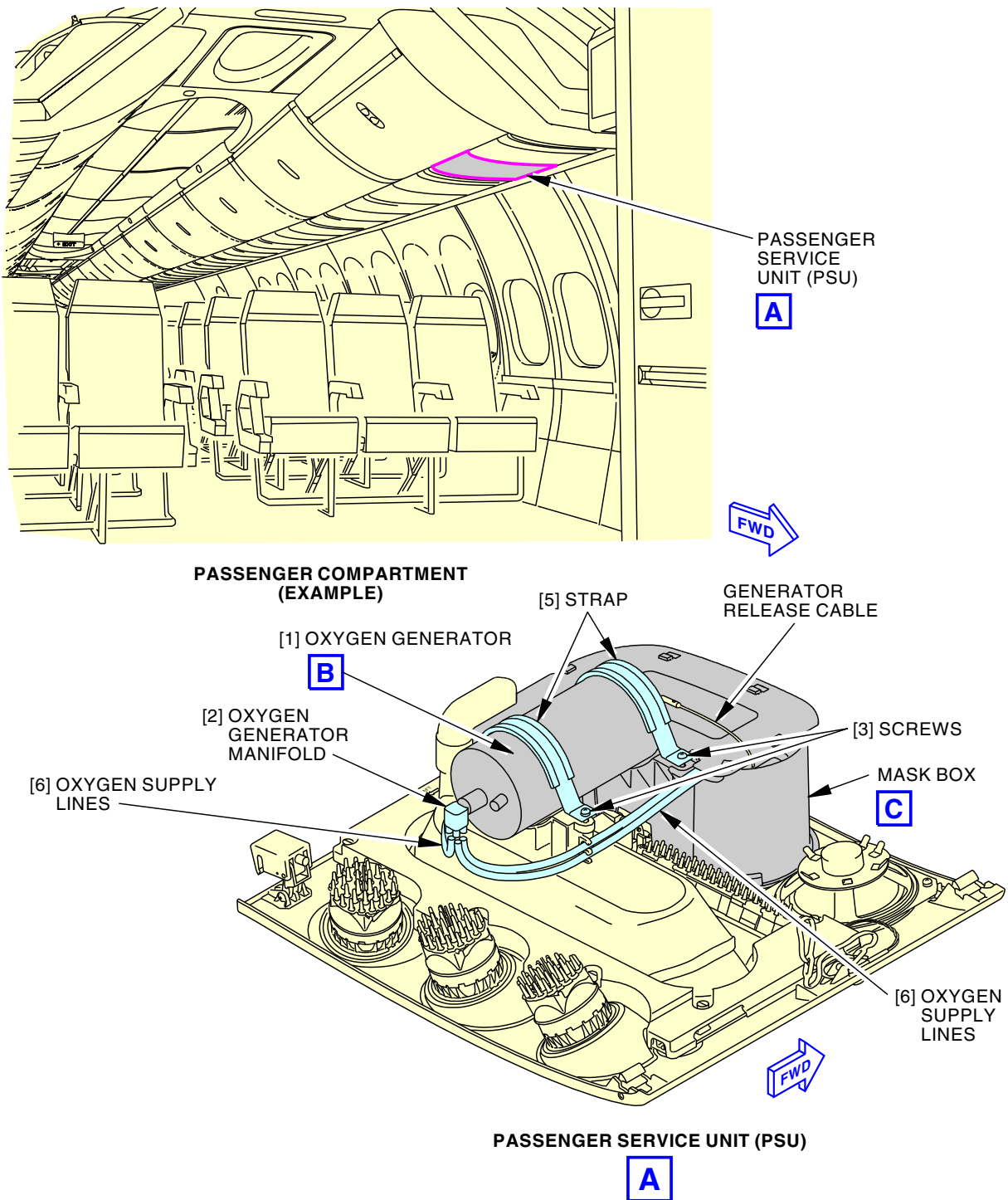
EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-11

Page 403
Sep 15/2021



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Oxygen Generator - PSU Installation
Figure 401/35-22-11-990-802 (Sheet 1 of 3)

EFFECTIVITY
SIA ALL

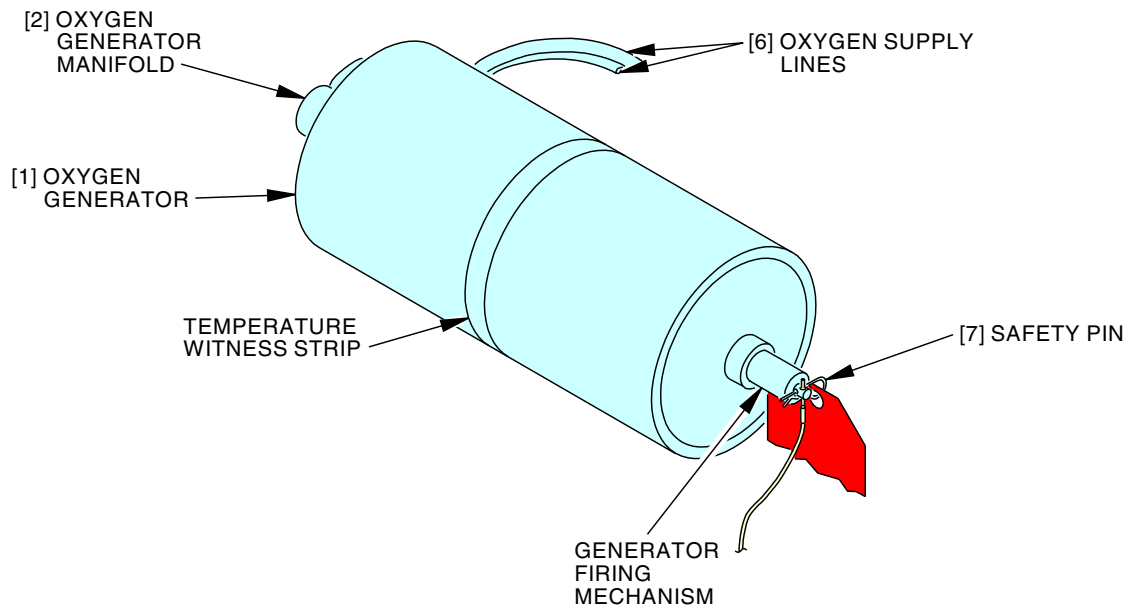
D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-11

Page 404
Sep 15/2021

737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL



**OXYGEN GENERATOR
(EXAMPLE)**

B

2414959 S00061536676_V1

Oxygen Generator - PSU Installation
Figure 401/35-22-11-990-802 (Sheet 2 of 3)

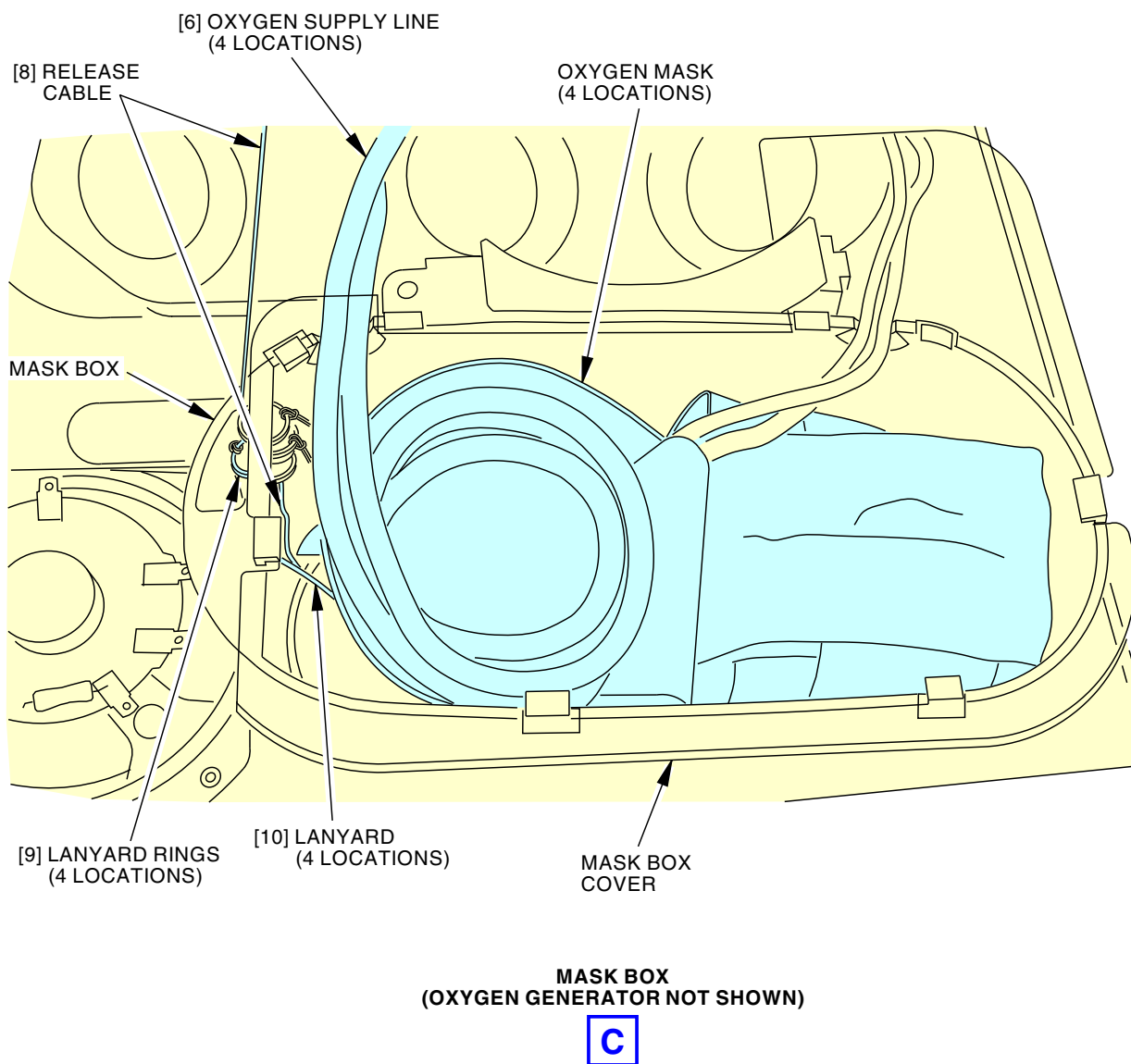
EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-11

Page 405
Sep 15/2021



2414958 S00061536675_V1

Oxygen Generator - PSU Installation
Figure 401/35-22-11-990-802 (Sheet 3 of 3)

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-11

Page 406
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

TASK 35-22-11-400-802

3. PSU Oxygen Generator Installation

(Figure 401)

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
25-23-61-400-801	Passenger Service Unit - Installation (P/B 401)
35-22-11-400-801	Oxygen Generator Activation (P/B 201)

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-752	Safety Pin and Flag - Chemical Oxygen Generator
	Part #: C35003-10 Supplier: 81205
	Part #: C35003-20 Supplier: 81205
	Part #: E71401-00 Supplier: D1379

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Oxygen generator	35-22-11-64A-050	SIA 001-007
		35-22-11-64M-050	SIA 008-999

D. Location Zones

Zone	Area
200	Upper Half of Fuselage

E. Prepare to Install the PSU Oxygen Generator

SUBTASK 35-22-11-210-004

(1) Do these checks before you install the oxygen generator [1]:

(a) Make sure that the oxygen generator is the correct capacity.

NOTE: Capacities of the oxygen generators are not all the same. Make sure that you use the correct part number before you install the oxygen generator.

(b) 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/ 232°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).

(c) Make sure a safety pin [7] is installed in the firing pin. (View B).

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.

(d) Make sure the oxygen generator [1] does not have these types of damage:

EFFECTIVITY
SIA ALL

35-22-11

D633AM101-SIA

Page 407
Jan 15/2023



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

- 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 35-22-11-210-005

- (2) If the oxygen generator [1] is not serviceable, discard it.

SUBTASK 35-22-11-210-006

- (3) If the oxygen generator [1] is serviceable, do the subsequent procedure.

F. PSU Oxygen Generator Installation

SUBTASK 35-22-11-400-001



A FIRED OXYGEN GENERATOR GETS VERY HOT 450°F, (232°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).

- (1) Make sure that the safety pin [7], (safety pin and flag, COM-752) is installed in the generator firing mechanism.

SUBTASK 35-22-11-211-001

- (2) UNDERBIN PSU's;

Make sure that the lanyard rings [9] of the mask lanyards [10] are fully installed to the oxygen generator release cable [8] (Figure 401).

SUBTASK 35-22-11-420-001

- (3) Put the oxygen generator [1] in its installed position on the PSU.
 - (a) Install the oxygen supply lines [6] to the oxygen generator.
 - (b) Then align the release pin hole of the generator firing mechanism horizontal to the cover of the oxygen mask box.
 - (c) Put the straps [5] in the installed position, then install the screws [3] in the strap(s) and the PSU.

SUBTASK 35-22-11-440-001

- (4) Do this task: Oxygen Generator Activation, TASK 35-22-11-400-801.

SUBTASK 35-22-11-410-006

- (5) To close the PSU, push the PSU panel up to fully engage the cam latches (Passenger Service Unit - Installation, TASK 25-23-61-400-801).

————— END OF TASK —————

TASK 35-22-11-000-803

4. ASU Oxygen Generator Removal

(Figure 402)

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
35-22-11-000-801	Oxygen Generator Deactivation (P/B 201)

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-11

Page 408
Jan 15/2023



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Prepare for the Removal

SUBTASK 35-22-11-010-005

- (1) Go to the applicable forward or aft Attendant Service Unit (ASU), found above the exit doors.

SUBTASK 35-22-11-010-006

- (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 35-22-11-020-007



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/232°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).

- (3) If the oxygen generator has not fired, do this task: Oxygen Generator Deactivation, TASK 35-22-11-000-801.

NOTE: If the oxygen generator has fired, it is not necessary to deactivate the oxygen generator.

D. ASU Oxygen Generator Removal

SUBTASK 35-22-11-020-008

- (1) Loosen the screws [24] that attach the oxygen generator [27] to the oxygen box [22].

SUBTASK 35-22-11-020-009

- (2) Disconnect the oxygen supply line from the oxygen generator manifold [21].

SUBTASK 35-22-11-020-010



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.



DO NOT TRY TO REMOVE THE FIRING MECHANISM FROM THE OXYGEN GENERATOR. YOU CANNOT ASSEMBLE IT AGAIN THUS IT IS DAMAGED.

- (3) Do these steps to remove the oxygen generator [27]:
 - (a) Make sure the safety pin [23] is installed in the firing pin.

EFFECTIVITY
SIA ALL

35-22-11

D633AM101-SIA

Page 409
Sep 15/2023



**737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL**

- I
- (b) Remove the release pin from the firing pin.
 - (c) Remove the screws [24] that hold the oxygen generator [27] to the oxygen box [22].
 - 1) Keep the fasteners for the installation.



WARNING

MAKE SURE THAT YOU OBEY ALL APPLICABLE REGULATORY REQUIREMENTS FOR THE TRANSPORT OF OXYGEN GENERATORS. IF THE SERVICE LIFE OF THE GENERATORS EXPIRES, YOU MUST FIRE THE GENERATORS AND MAKE SURE THAT THE OXIDIZER CORE IS EMPTY. DO THIS 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** ————

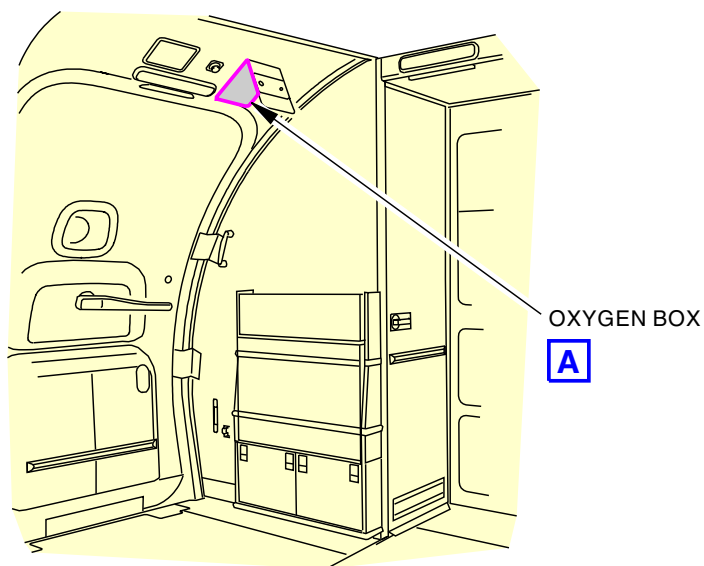
EFFECTIVITY
SIA ALL

D633AM101-SIA

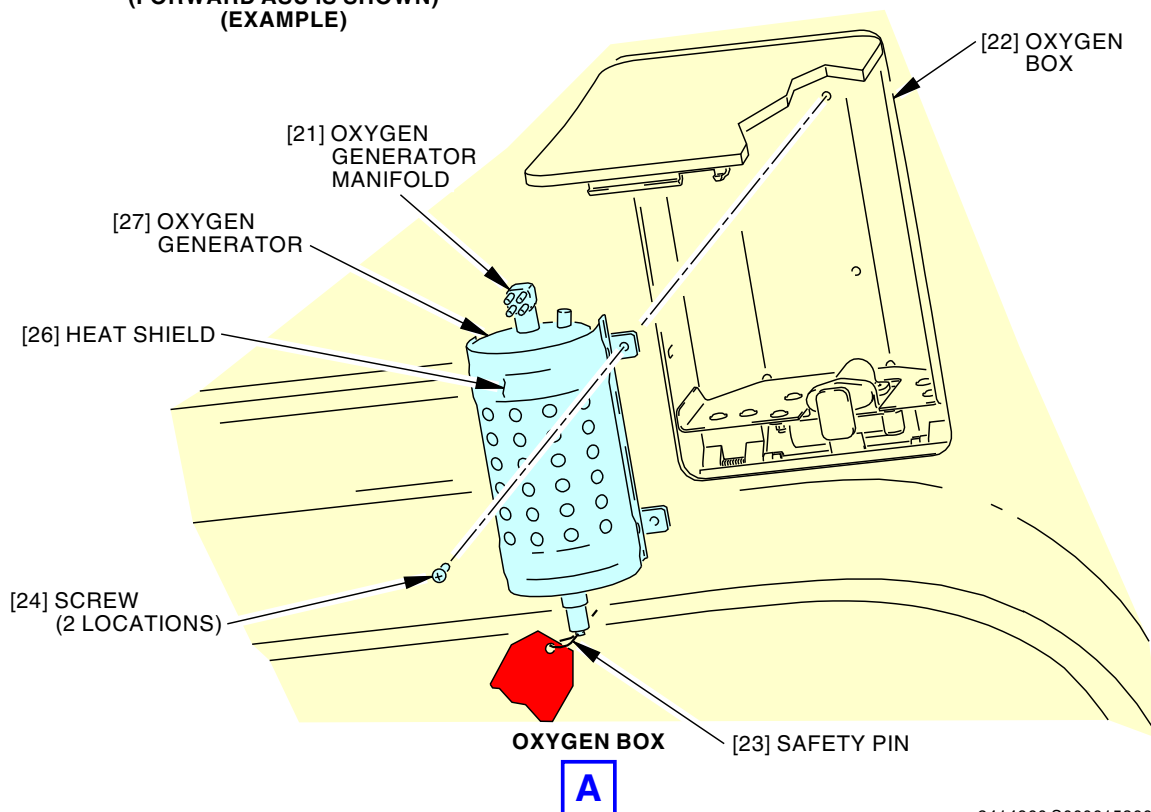
ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-11

Page 410
Sep 15/2023



ATTENDANT SERVICE UNIT (ASU)
(FORWARD ASU IS SHOWN)
(EXAMPLE)



2414960 S00061536679_V2

Oxygen Generator - ASU Installation
Figure 402/35-22-11-990-803

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-11

Page 411
Sep 15/2023



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

TASK 35-22-11-400-803

5. ASU Oxygen Generator Installation

(Figure 402)

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
35-22-11-400-801	Oxygen Generator Activation (P/B 201)

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
27	Oxygen generator	35-22-11-11-140	SIA ALL
		35-22-11-21-140	SIA ALL
		35-22-11-26-160	SIA ALL

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Prepare for the Installation

NOTE: The capacities of the oxygen generators are not all the same. Make sure you install the correct part number and capacity (12 minute or 22 minute) generator.

SUBTASK 35-22-11-210-007

(1) Do these checks before you install the oxygen generator [27]:

(a) Make sure that the heat-sensitive band on the oxygen generator [27] is not black.

NOTE: If the heat-sensitive band is black, the oxygen generator has fired.



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/ 232°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 that the 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 has fired or the firing mechanism is bad.

(c) Make sure that 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 35-22-11-210-008

(2) If the oxygen generator [27] is not serviceable, discard it.

SUBTASK 35-22-11-210-009

(3) If the oxygen generator [27] is serviceable, do the subsequent procedure.

EFFECTIVITY
SIA ALL

35-22-11

D633AM101-SIA

Page 412
Sep 15/2023



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

E. ASU Oxygen Generator Installation

SUBTASK 35-22-11-010-007

- (1) Go to the applicable forward or aft Attendant Service Unit (ASU), found above the exit doors.

SUBTASK 35-22-11-410-007

- (2) Install the heat shield [26].

SUBTASK 35-22-11-820-001



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.



DO NOT TRY TO REMOVE THE FIRING MECHANISM FROM THE OXYGEN GENERATOR. YOU CANNOT ASSEMBLE IT AGAIN THUS IT IS DAMAGED.

- (3) Put the oxygen generator [27] in its position with the safety pin [23] and warning flag in the direction of the release cable.
- (a) Locate the generator so that the safety pin [23], release pin, and firing pin do not touch the oxygen box.

SUBTASK 35-22-11-410-008

- (4) Install the oxygen box [22] with the screws [24].

SUBTASK 35-22-11-420-002

- (5) Connect the oxygen supply line to the oxygen generator manifold [21] on the oxygen generator.
- (a) Make sure that the oxygen supply line is tightly connected to the manifold.

SUBTASK 35-22-11-440-002

- (6) Do this task: Oxygen Generator Activation, TASK 35-22-11-400-801.

————— END OF TASK —————

EFFECTIVITY
SIA ALL

35-22-11

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Page 413
Sep 15/2023



737-7/8/8200/9/10
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

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)

TASK 35-22-21-000-801

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)
35-22-11-000-801	Oxygen Generator Deactivation (P/B 201)
35-22-11-000-802	PSU Oxygen Generator Removal (P/B 401)

B. Tools/Equipment

Reference	Description
STD-4241	Rod, 0.090 in (2.29 mm) to 0.125 in (3.18 mm) Diameter, 6 in (152 mm) length

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Procedure

SUBTASK 35-22-21-910-001

- (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 35-22-21-860-001

- (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 35-22-21-010-001

- (3) Go to the applicable PSU in the passenger cabin.

EFFECTIVITY
SIA ALL

35-22-21

D633AM101-SIA

Page 401
Sep 15/2021



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-22-21-010-002

- (4) To get access to the PSU, do these steps to lower the PSU:
- (a) Put a 0.090 in to 0.125 in diameter 6 in length rod, STD-4241, or the equivalent tool, in the latch access hole (2 locations).
 - (b) Push up on the rod to unlatch the cam latches.
 - (c) Lower the PSU.

SUBTASK 35-22-21-040-001



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/232°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 35-22-11-000-801.

SUBTASK 35-22-21-010-003

- (6) Remove the top cover from the oxygen mask box of the PSU. Then remove the oxygen masks from the mask box.
- (a) Put the oxygen masks to the sides of the mask box.

SUBTASK 35-22-21-020-001

- (7) Remove the oxygen generator to get access to the door latch actuator. Do the PSU Oxygen Generator Removal, TASK 35-22-11-000-802.

SUBTASK 35-22-21-020-002

- (8) Do these steps to remove the door latch actuator [2].
- (a) Disconnect the electrical connector of the door latch actuator [2].
 - (b) Remove the two screws [3]. Then remove the actuator.

————— **END OF TASK** —————

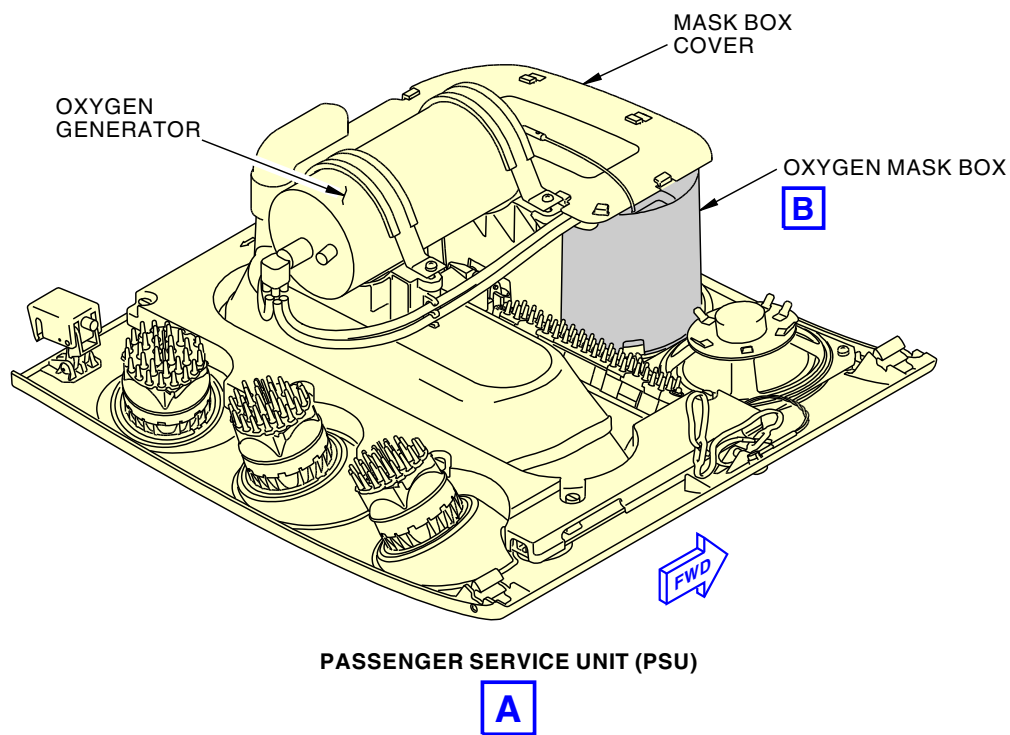
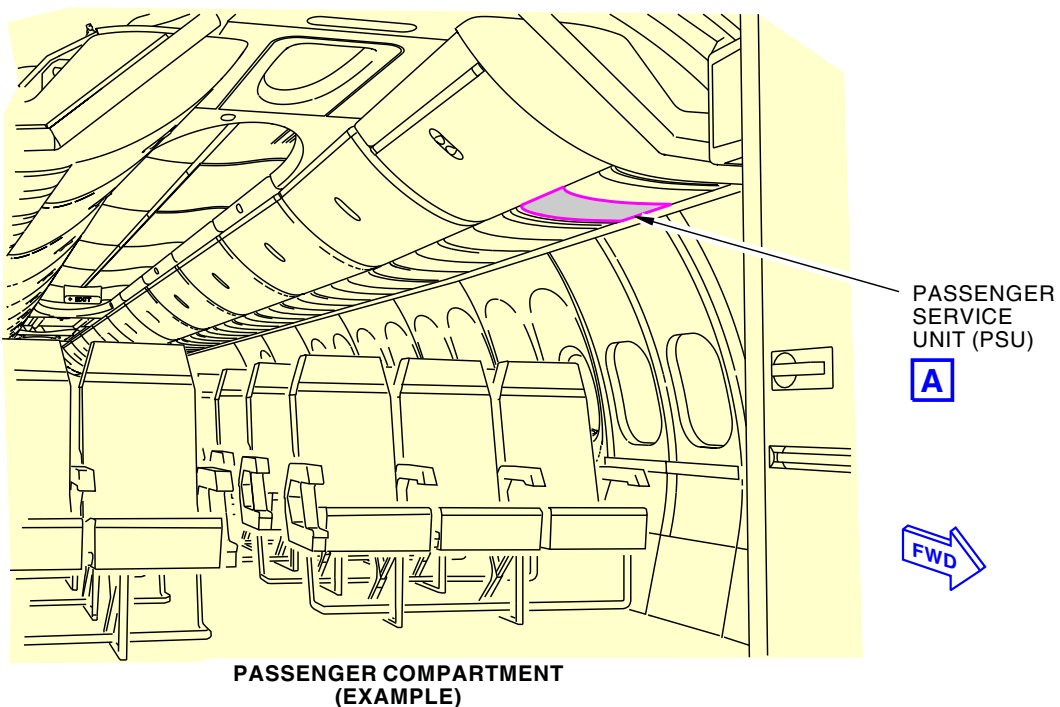
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35-22-21

Page 402
Sep 15/2021



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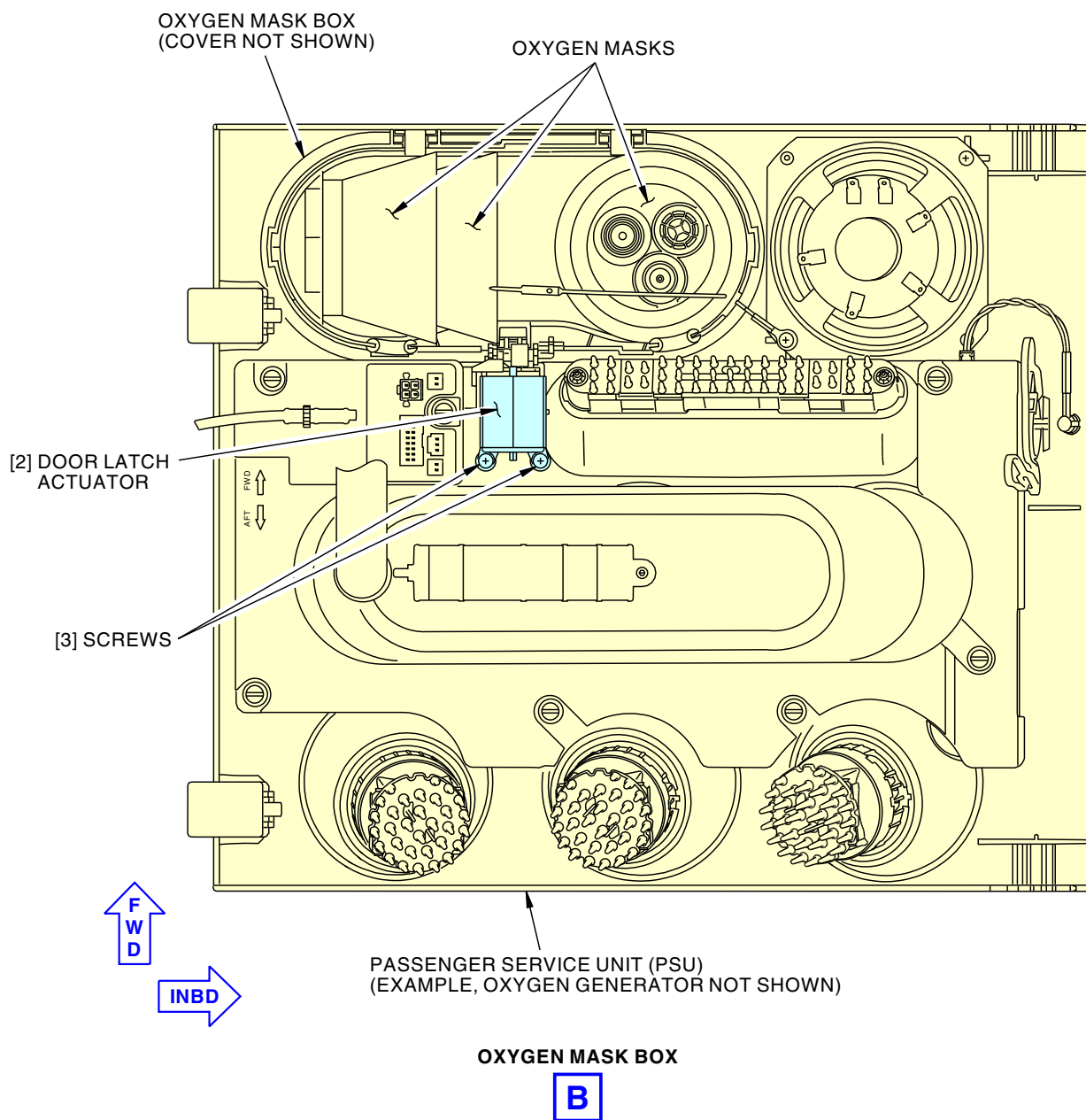
PSU Door Latch Actuator Installation
Figure 401/35-22-21-990-801 (Sheet 1 of 2)

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35-22-21

D633AM101-SIA

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2414963 S00061536688_V1

PSU Door Latch Actuator Installation
Figure 401/35-22-21-990-801 (Sheet 2 of 2)

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35-22-21

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ECCN 9E991 BOEING PROPRIETARY - See title page for details



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

TASK 35-22-21-400-801

3. **PSU Door Latch Actuator Installation**

(Figure 401)

A. References

Reference	Title
25-23-61-400-801	Passenger Service Unit - Installation (P/B 401)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-00-700-802	Passenger Oxygen System Manual Deploy Operational Test (P/B 501)
35-22-11-400-801	Oxygen Generator Activation (P/B 201)
35-22-11-400-802	PSU Oxygen Generator Installation (P/B 401)
35-22-31-440-801	PSU Oxygen Mask Packing (P/B 201)
WDM 35-21-41	D000534524

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-14099	Test Stop Key Assy Part #: 70698 Supplier: 16115

C. Consumable Materials

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

D. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
2	Door latch actuator	35-22-21-64A-050	SIA 001-007
		35-22-21-64A-055	SIA 001-007
		35-22-21-64M-050	SIA 008-999

E. Location Zones

Zone	Area
200	Upper Half of Fuselage

F. Procedure

SUBTASK 35-22-21-910-002

- (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.

EFFECTIVITY
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-21

Page 405
Jan 15/2022



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-22-21-860-002



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/232°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

- (3) Do these steps to install the door latch actuator [2] to the PSU.
- (a) Put the door latch actuator [2] in its installed position on the PSU.
 - (b) Install the two screws [3] to the door latch actuator and the PSU.

SUBTASK 35-22-21-420-002

- (4) Attach the electrical connector for the door latch actuator [2].
- (a) Attach the connector to the wires of the door latch actuator, if necessary (WDM 35-21-41).

SUBTASK 35-22-21-420-003

- (5) Do these steps to close and latch the oxygen box door.
- (a) Hold the oxygen mask door of the PSU to the almost closed position.
 - (b) If you used the test stop key assembly, COM-14099, disengage the tool from the door latch actuator.
 - (c) If you used the masking tape, G02311, remove the tape.
 - (d) Arm the door latch actuator. Turn the lever arm of the door latch to fully engage the magnet of the latch actuator
 - (e) Close the oxygen mask door until the door latch/actuator fully engages.

SUBTASK 35-22-21-410-001

- (6) Install the oxygen generator (TASK 35-22-11-400-802).

SUBTASK 35-22-21-440-001

- (7) Stow the oxygen masks (TASK 35-22-31-440-801).

SUBTASK 35-22-21-860-003



MAKE SURE TO REMOVE THE SAFETY PIN FROM THE FIRING PIN ON THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL NOT FIRE IN AN EMERGENCY WITH THE SAFETY PIN INSTALLED.

- (8) Do this task: Oxygen Generator Activation, TASK 35-22-11-400-801.

SUBTASK 35-22-21-410-002

- (9) To close the PSU, push the PSU panel up to engage the cam latches (TASK 25-23-61-400-801).

NOTE: The latches will generally make a "click" sound when they fully engage.

EFFECTIVITY
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D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-21

Page 406
Sep 15/2021



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-22-21-860-004

- (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	8	C00785	OXYGEN MAN CONT
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

SUBTASK 35-22-21-410-003

- (11) Do the Manual Deploy Functional Test (TASK 35-22-00-700-802).

————— **END OF TASK** —————

TASK 35-22-21-000-802

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)
35-22-11-000-801	Oxygen Generator Deactivation (P/B 201)

B. Procedure

SUBTASK 35-22-21-910-003

- (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 35-22-21-860-005

- (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 35-22-21-010-004

- (3) Go to the applicable attendant service unit (ASU) located above the front and rear passenger exit doors.

SUBTASK 35-22-21-010-005

- (4) Do this task: Attendant/Lavatory Service Unit Removal, TASK 25-23-13-000-801.

EFFECTIVITY
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D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-21

Page 407
Sep 15/2021



**737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL**

SUBTASK 35-22-21-040-002



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/232°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 35-22-11-000-801.

SUBTASK 35-22-21-020-003

- (6) Do these steps to remove the door latch actuator [22] from the removed oxygen box.
- (a) Remove the two screws [23] and washers [24] that attach the door latch actuator [22] to the test stop assembly.
 - 1) Keep the screws [23] and washers [24] for the installation.
 - (b) Disconnect the door latch actuator electrical harness.
 - (c) Remove the door latch actuator [22].

———— **END OF TASK** ————

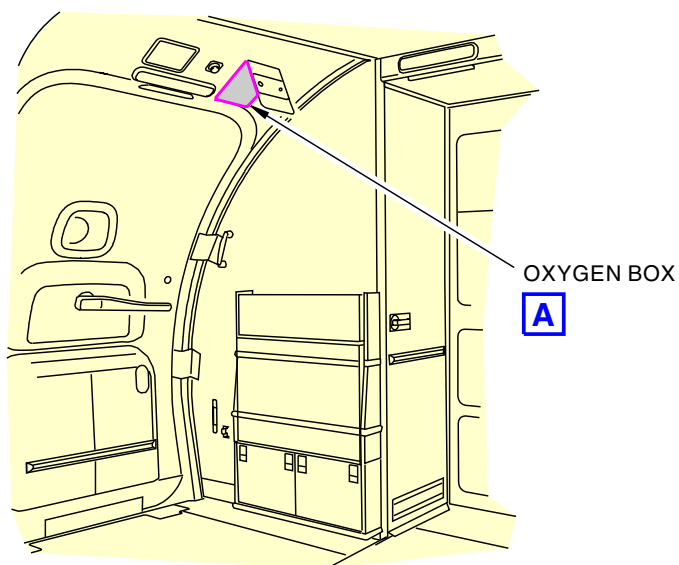
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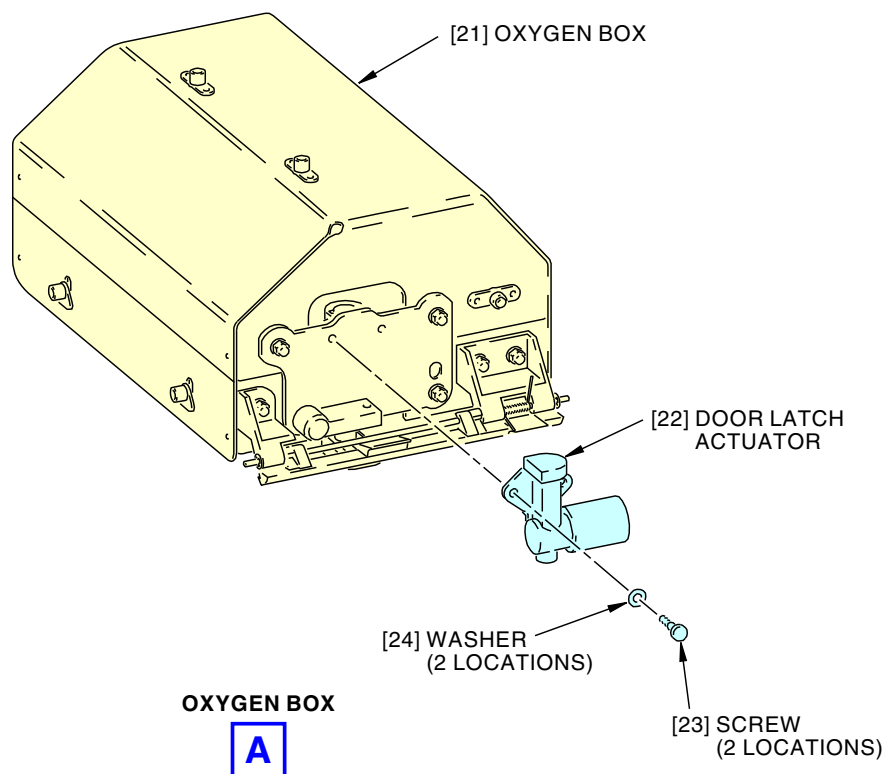
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35-22-21

Page 408
Sep 15/2021



ATTENDANT SERVICE UNIT (ASU)
(EXAMPLE)



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ASU Door Latch Actuator Installation
Figure 402/35-22-21-990-802

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ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-21

Page 409
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

TASK 35-22-21-400-802

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)
35-22-00-700-802	Passenger Oxygen System Manual Deploy Operational Test (P/B 501)
35-22-11-400-801	Oxygen Generator Activation (P/B 201)

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
22	Door latch actuator	35-22-21-11-090	SIA ALL
		35-22-21-21-065	SIA ALL
		35-22-21-26-060	SIA ALL

C. Procedure

SUBTASK 35-22-21-910-004

- (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 35-22-21-860-006



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/232°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

- (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 35-22-21-410-004

- (4) Do this task: Attendant/Lavatory Service Unit Installation, TASK 25-23-13-400-801.

SUBTASK 35-22-21-860-007



MAKE SURE TO REMOVE THE SAFETY PIN FROM THE FIRING PIN ON THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL NOT FIRE IN AN EMERGENCY WITH THE SAFETY PIN INSTALLED.

- (5) Do this task: Oxygen Generator Activation, TASK 35-22-11-400-801.

EFFECTIVITY
SIA ALL

35-22-21

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Page 410
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-22-21-860-008

- (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 35-22-21-410-005

- (7) Do this task: Passenger Oxygen System Manual Deploy Operational Test, TASK 35-22-00-700-802.

———— **END OF TASK** ————

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ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-21

Page 411
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

PASSENGER OXYGEN MASK - MAINTENANCE PRACTICES

1. General

- A. This procedure contains these tasks:
- (1) A packing of the Passenger Service Unit (PSU) oxygen mask
 - (2) A packing of the Attendant Service Unit (ASU) oxygen mask
 - (3) A packing of the Lavatory Service Unit (LSU) oxygen mask
 - (4) A detailed inspection of the oxygen mask.
- B. 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 (PSUs).
- C. 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.
- D. Persons that do the mask packing must do it in a clean environment.
- E. Before the maintenance is done 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.
- F. Before the maintenance is done on an oxygen system component that contains an oxygen cylinder (CDS) you must install a safety pin in the actuator assembly. The safety pin will let the oxygen cylinder be handled and stored. If the safety pin is not installed, the oxygen cylinder can release oxygen.

TASK 35-22-31-440-801

2. PSU Oxygen Mask Packing

A. **References**

Reference	Title
25-23-61-000-801	Passenger Service Unit - Removal (P/B 401)
25-23-61-400-801	Passenger Service Unit - Installation (P/B 401)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-11-000-801	Oxygen Generator Deactivation (P/B 201)
35-22-11-400-801	Oxygen Generator Activation (P/B 201)
35-22-31-000-801	PSU Oxygen Mask Removal (P/B 401)
35-22-31-400-801	PSU Oxygen Mask Installation (P/B 401)

B. **Location Zones**

Zone	Area
200	Upper Half of Fuselage

C. **Prepare to Pack the PSU Oxygen Masks**

SUBTASK 35-22-31-910-001

- (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 35-22-31-010-001

- (2) Open the applicable PSU(s) to get access to the oxygen generator and the oxygen mask box. (Passenger Service Unit - Removal, TASK 25-23-61-000-801).

EFFECTIVITY
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35-22-31

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Page 201
Sep 15/2022



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-22-31-040-001

- (3) Do the TASK 35-22-11-000-801.

SUBTASK 35-22-31-010-002

- (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 mask box cover from the oxygen mask box.
 - 1) Keep the mask box cover for the installation.
- (b) Pull each oxygen mask, with its oxygen supply line and lanyard, up through the top of the oxygen mask box.
- (c) Isolate each of the oxygen masks then put the oxygen masks to the side of the PSU oxygen box.
 - 1) Put the outboard tandem oxygen hoses above the top of the oxygen box.

SUBTASK 35-22-31-420-001

- (5) Do these steps to close and latch the oxygen box door, if it is necessary.
- (a) Hold the oxygen mask door of the PSU to the almost closed position.
 - (b) Arm the door latch actuator. Turn the lever of the door latch and fully engage the magnet of the latch actuator
 - (c) Close the oxygen mask door until the door latch/actuator fully engages.

SUBTASK 35-22-31-210-001

- (6) Do a check of the applicable oxygen mask(s):
- (a) Make sure that the oxygen masks are not damaged.
 - (b) Make sure that the oxygen masks are clean and free from:
 - 1) dirt
 - 2) grease
 - 3) oil
 - 4) unwanted material.

SUBTASK 35-22-31-210-002

- (7) Do a check of the oxygen supply hose of each mask assembly:
- (a) Make sure that the oxygen supply hose is not damaged.
 - (b) Make sure that the oxygen supply hose is soft and flexible.
 - (c) Make sure that the color of the oxygen supply hose is clear.
 - (d) Make sure that the oxygen supply hose is fully connected to the reservoir bag of the mask assembly

SUBTASK 35-22-31-900-001

- (8) If an oxygen mask or oxygen supply hose is not serviceable, do these tasks:
PSU Oxygen Mask Removal, TASK 35-22-31-000-801
PSU Oxygen Mask Installation, TASK 35-22-31-400-801

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-31

Page 202
Sep 15/2022



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

D. PSU Oxygen Mask Packing

(Figure 201)

SUBTASK 35-22-31-420-002

- (1) Do these steps to fold an oxygen mask tandem:

NOTE: A mask tandem is two masks prepared as a one unit for stowage in the oxygen box.

- (a) STEP 1 - Prepare to fold the oxygen mask:

- 1) Isolate all of the lanyards and oxygen supply hoses.
- 2) Put the reservoir bag of each oxygen mask flat.
- 3) Put the head strap on the reservoir bag.
- 4) Put the mask lanyard to the opposite side of the reservoir bag.

- (b) STEP 2:

- 1) Fold the outer 1/3 length of the reservoir bag to the center of the reservoir bag.
- 2) Then fold the opposite 1/3 length of the reservoir bag to the center .

- (c) STEP 3 - Assemble the mask tandems:

- 1) Divide the two mask tandems and identify the inboard set.
- 2) Align the reservoir bags of one mask above the reservoir bag of the second mask.
- 3) Put the face cup of one mask into the face cup of the second mask.
 - a) Lightly pull the lanyard ring of the inner mask from between the two mask face cups of the tandem. Fully extend the lanyard of the inner mask from between the face cups of the two masks.

- (d) STEP 4:

- 1) Fully extend the two folded reservoir bags of the tandem to one side of the two masks.
- 2) Fold the two reservoir bags at the center.
- 3) Put the ends of the two reservoir bags opposite the face cups in the inner part of the top face cup.
- 4) Fold the two reservoir bags at the center again. Then put the ends of the two folded reservoir bags in the inner part of the top face cup.
- 5) Make sure that the sequence of the lanyard rings on the generator release cable is the same as the sequence of the masks.

- (e) STEP 5

- 1) Wind the two oxygen supply hoses in a coil in the inner side of the top face cup. Let the last 10 $\pm$ 1 in. (25.4 $\pm$ 1.3 cm) of the supply hoses stay out of the face cup.

NOTE: The coiling direction depends on the position of the mask tandem in the oxygen box.

- 2) Put the tandem on the door in the bottom of the Oxygen Box near the speaker.

- (f) Do the steps again for the remaining two mask assemblies.

E. Stow the Mask Tandems in the Oxygen Mask Box

(Figure 202)

SUBTASK 35-22-31-210-003

- (1) Make sure that the lanyard ring of each mask lanyard is fully installed to the generator release cable.

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D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-31

Page 203
Sep 15/2021



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-22-31-420-003

- (2) Isolate the mask tandem with their lanyard rings installed to the highest part of the generator release cable. This is mask tandem number one. (Figure 202 (Sheet 2)).
 - (a) Align the mask tandem number one with the face cups vertical and the valves end of the face cups pointed to the door.
 - (b) Turn the mask tandem to put the reservoir bags of the masks to the center of the mask box.
 - (c) Put the mask tandem one in the mask box with the valves of the face cups against the mask box door.
 - (d) Put the mask tandem one against the side of the mask box with the release cable window.

SUBTASK 35-22-31-420-004

- (3) Align the face cups of the mask tandem number two horizontal to the mask box. Figure 202 (Sheet 3)
 - (a) Then turn this mask tandem to put the folded reservoir bags to the top of the tandem.
 - (b) Put this mask tandem in the mask box with the open side of the face cups pointed to the box center.

SUBTASK 35-22-31-210-004

- (4) Make sure that the two grommets are fully installed to the mask box. Then make sure that the oxygen supply hoses are fully installed in the grommets.

SUBTASK 35-22-31-410-001

- (5) Install the mask box cover to the top of the oxygen mask box.
 - (a) Attach the hooks that are near the generator first.
 - (b) Make sure that the lanyard is attached to the rail.

SUBTASK 35-22-31-210-005

- (6) Make sure that the four oxygen supply hoses are fully connected to the oxygen manifold of the oxygen generator. Then make sure that the oxygen supply hoses are fully installed to the supply hose clips of the PSU assembly.

F. Put the Airplane Back To the Usual Condition

SUBTASK 35-22-31-440-001

- (1) Do the Oxygen Generator Activation, TASK 35-22-11-400-801.

SUBTASK 35-22-31-410-002

- (2) Close the Passenger Service Unit (Passenger Service Unit - Installation, TASK 25-23-61-400-801).

————— END OF TASK —————

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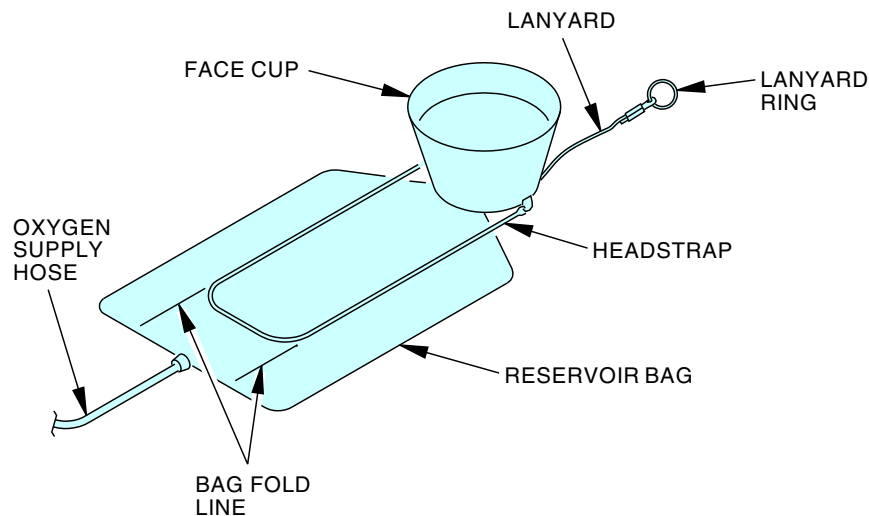
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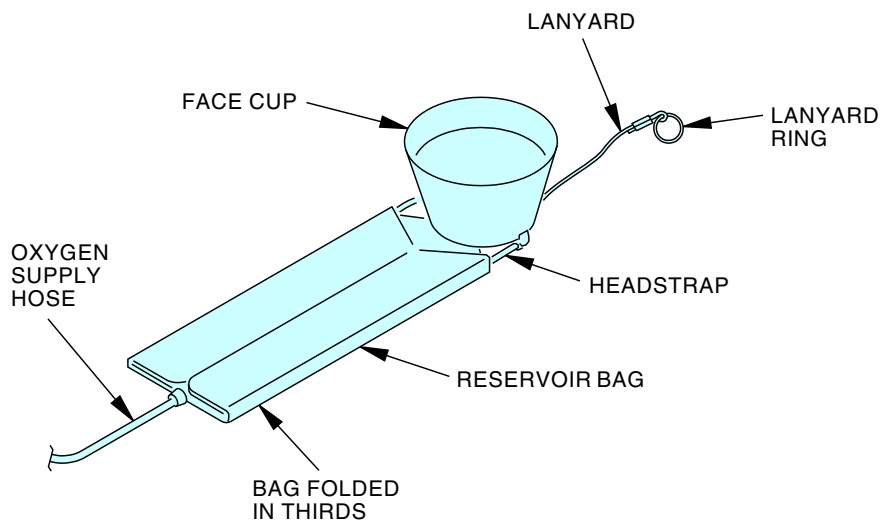
Page 204
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL



STEP 1



STEP 2

PREPARATION OF MASK ASSEMBLY

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Oxygen Mask Packing Procedure
Figure 201/35-22-31-990-801 (Sheet 1 of 4)

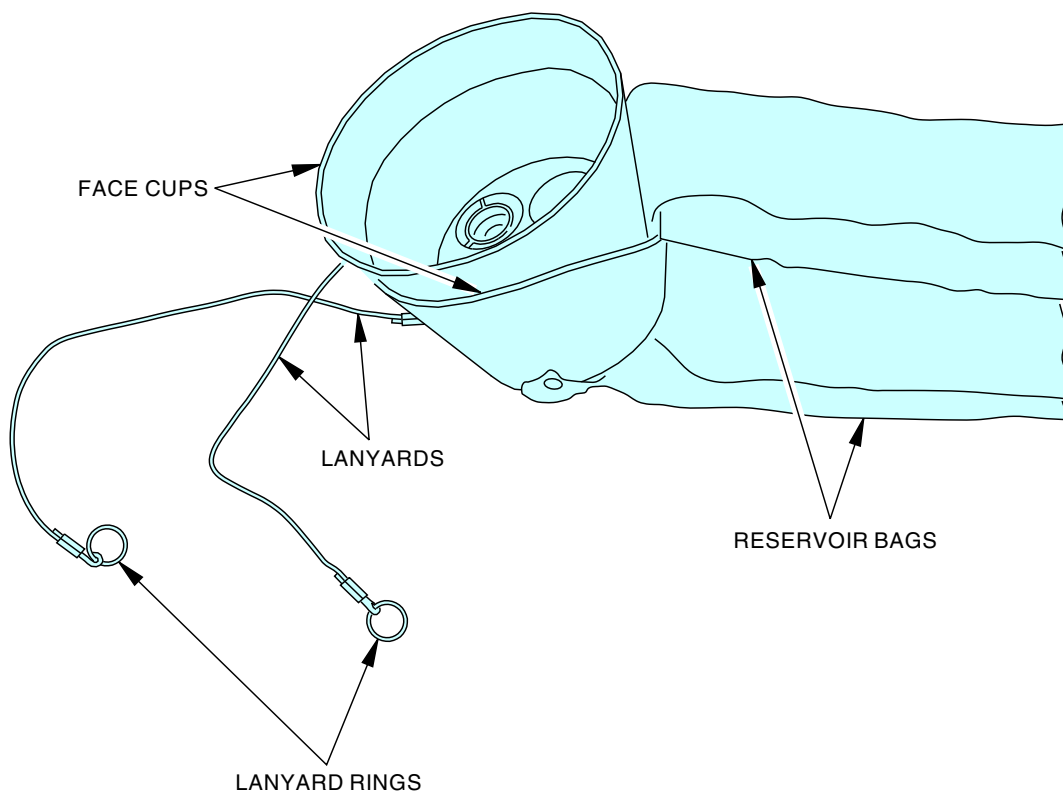
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35-22-31

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ECCN 9E991 BOEING PROPRIETARY - See title page for details

Page 205
Sep 15/2021



STEP 3
MASK TANDEM 1

1 A TANDEM IS TWO MASKS PREPARED AS A ONE UNIT FOR STOWAGE IN THE OXYGEN BOX

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Oxygen Mask Packing Procedure
Figure 201/35-22-31-990-801 (Sheet 2 of 4)

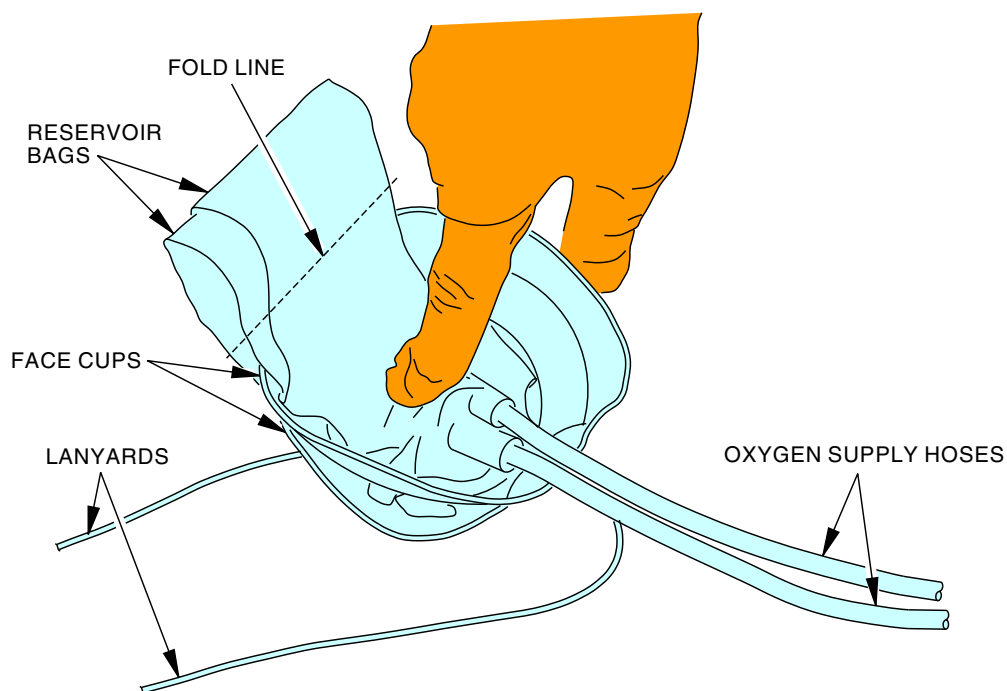
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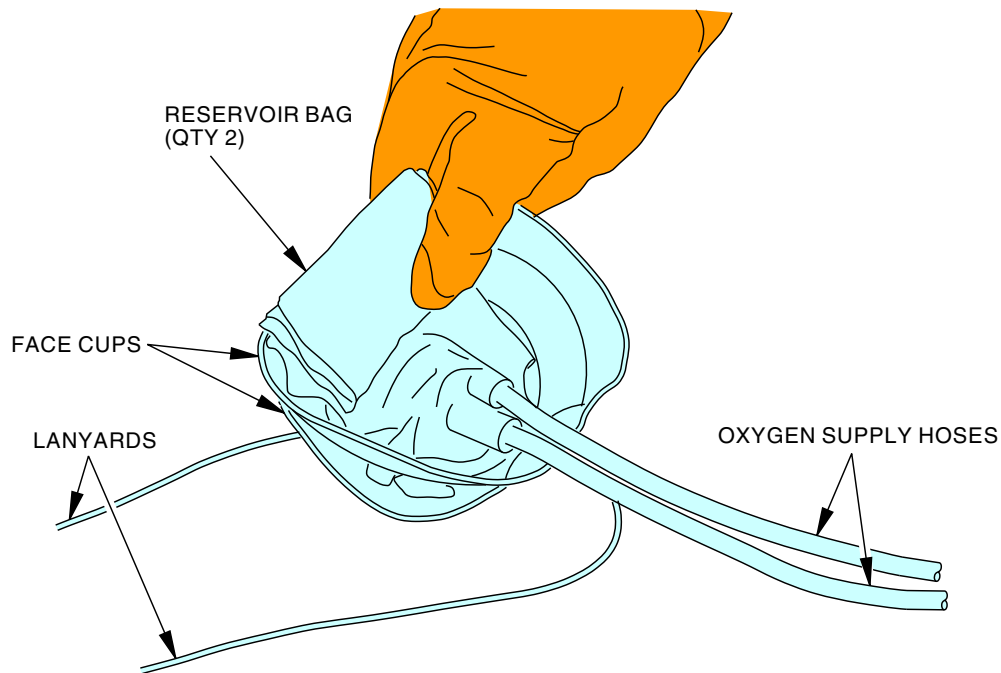
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35-22-31

Page 206
Sep 15/2021



STEP 4



STEP 4

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Oxygen Mask Packing Procedure
Figure 201/35-22-31-990-801 (Sheet 3 of 4)

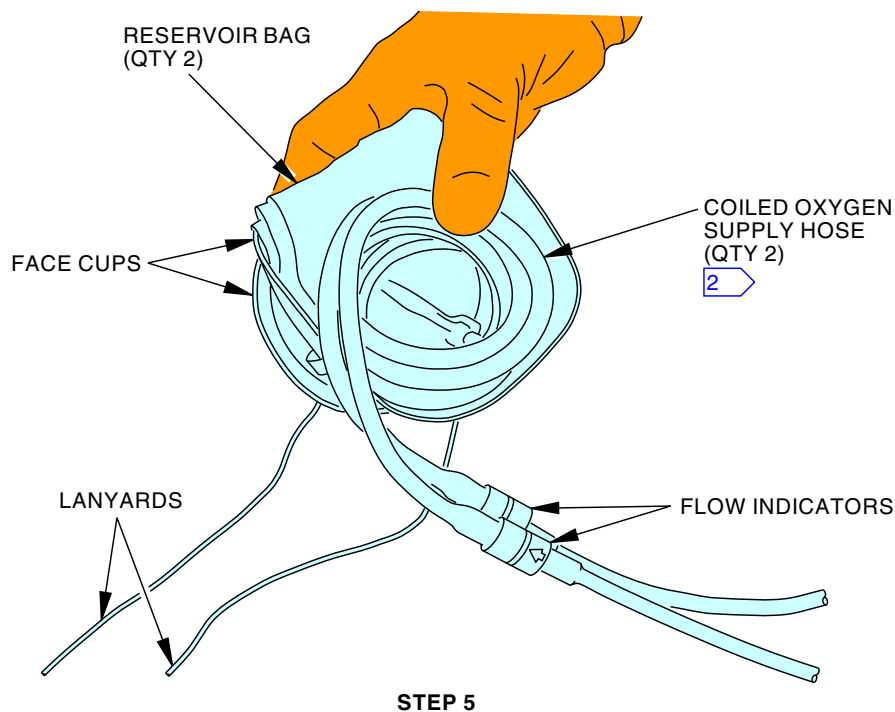
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-31

Page 207
Sep 15/2021



2 COIL DIRECTION IS DEPENDANT ON THE POSITION OF THE MASK TANDEM IN THE OXYGEN BOX.

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Oxygen Mask Packing Procedure
Figure 201/35-22-31-990-801 (Sheet 4 of 4)

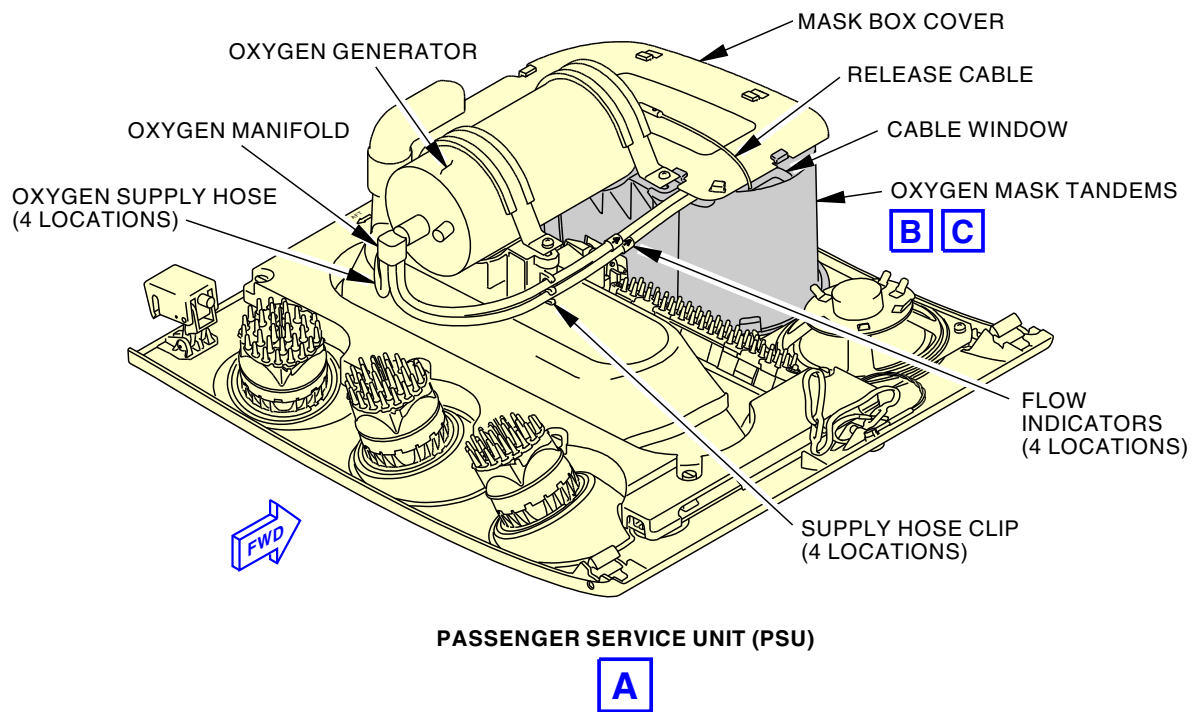
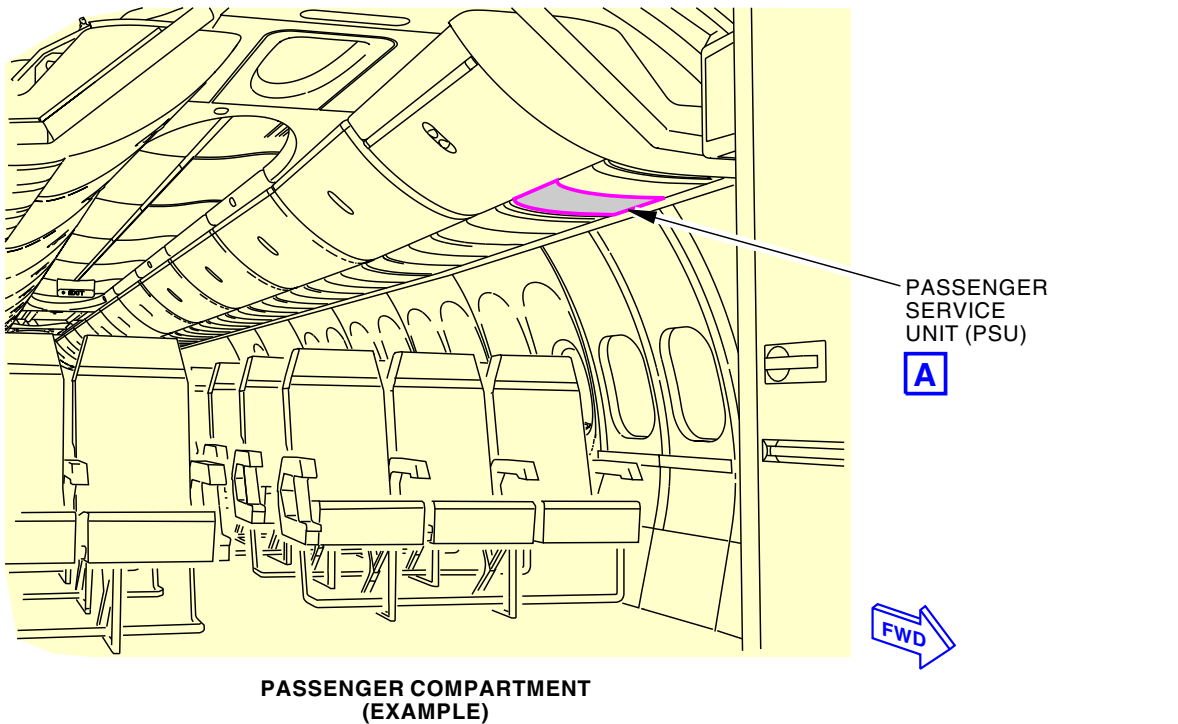
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-31

Page 208
Sep 15/2021



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Passenger Service Unit (PSU) Oxygen Mask Packing
Figure 202/35-22-31-990-802 (Sheet 1 of 3)

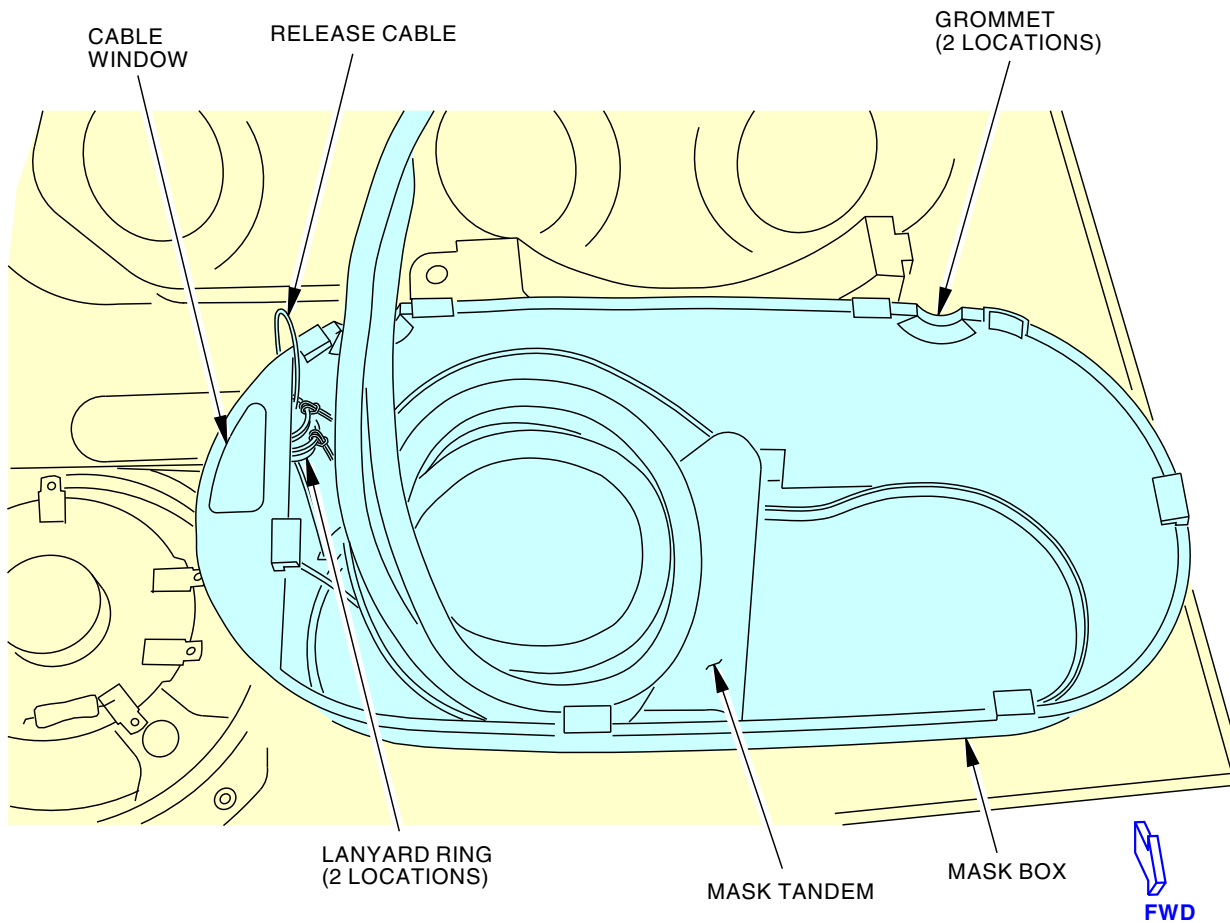
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35-22-31

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ECCN 9E991 BOEING PROPRIETARY - See title page for details

Page 209
Sep 15/2021



**OXYGEN MASK TANDEMS (TANDEM ONE)
(MASK BOX COVER AND OXYGEN GENERATOR NOT SHOWN)**

B

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**Passenger Service Unit (PSU) Oxygen Mask Packing
Figure 202/35-22-31-990-802 (Sheet 2 of 3)**

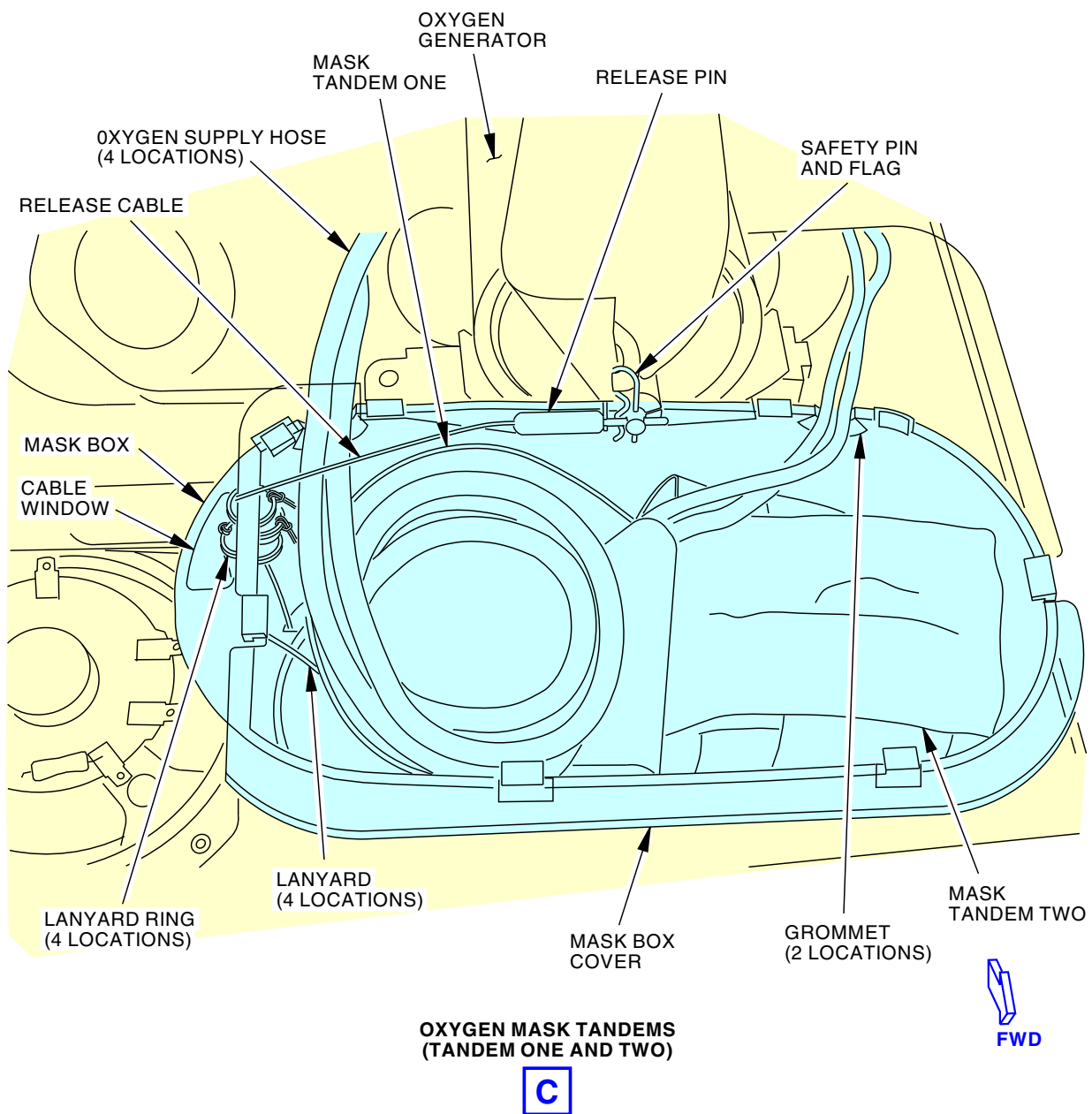
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-31

Page 210
Sep 15/2021



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Passenger Service Unit (PSU) Oxygen Mask Packing
Figure 202/35-22-31-990-802 (Sheet 3 of 3)

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35-22-31

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Page 211
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

TASK 35-22-31-420-801

3. **ASU Oxygen Mask Packing**

(Figure 203, Figure 204)

A. **References**

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-11-000-801	Oxygen Generator Deactivation (P/B 201)
35-22-11-400-801	Oxygen Generator Activation (P/B 201)
35-22-31-000-802	ASU Oxygen Mask Removal (P/B 401)
35-22-31-400-802	ASU Oxygen Mask Installation (P/B 401)

B. **Location Zones**

Zone	Area
200	Upper Half of Fuselage

C. **Prepare to Pack the ASU Oxygen Masks**

SUBTASK 35-22-31-910-002

- (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 35-22-31-010-003

- (2) Do these steps to open an ASU oxygen box (if it is necessary) (Figure 203).
- (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 35-22-31-040-002

 WARNING	DO THE DEACTIVATION PROCEDURE FOR THE OXYGEN GENERATOR. ACCIDENTAL OPERATION OF THE OXYGEN GENERATOR CAN CAUSE INJURIES TO PERSONS AND DAMAGE TO EQUIPMENT.
---	---

- (3) Do this task: Oxygen Generator Deactivation, TASK 35-22-11-000-801.

SUBTASK 35-22-31-210-006

- (4) 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.

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35-22-31

Page 212
Sep 15/2021



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-22-31-210-007

- (5) 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 35-22-31-900-002

- (6) If an oxygen mask or oxygen supply hose is not serviceable, do these tasks:
ASU Oxygen Mask Removal, TASK 35-22-31-000-802
ASU Oxygen Mask Installation, TASK 35-22-31-400-802

D. ASU Oxygen Mask Packing

SUBTASK 35-22-31-800-001

- (1) Go to the applicable ASU in the passenger cabin.

SUBTASK 35-22-31-410-003

- (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).
 - 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.

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D633AM101-SIA

35-22-31

Page 213
Sep 15/2021



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-22-31-410-004

- (3) Do these steps to install the ASU oxygen masks in the oxygen box (Figure 203).
- (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 face piece is up.
 - (d) Do these steps to install the masks in the oxygen box :
 - 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).



DO NOT YOU PUSH THE OXYGEN MASKS TOO FAR INTO THE OXYGEN BOX. THE OXYGEN MASKS CAN CATCH BETWEEN THE OXYGEN GENERATOR AND THE OXYGEN BOX STRUCTURE. IF THEY CATCH AGAINST THE OXYGEN GENERATOR, THEY WILL NOT COME DOWN DURING AN EMERGENCY. THIS WILL CAUSE INJURIES TO PASSENGERS.

- 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 35-22-31-410-005

- (4) Do these steps to pack the streamer and streamer cord:
- (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 35-22-31-440-002

- (5) Do this task: Oxygen Generator Activation, TASK 35-22-11-400-801.

SUBTASK 35-22-31-410-006

- (6) Do these steps to check the installation of the oxygen masks:

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35-22-31

Page 214
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

- (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 steamer 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 35-22-31-410-007

- (7) Do these steps to close the oxygen box door:
 - (a) Hold the oxygen box door.
 - (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.

———— **END OF TASK** ————

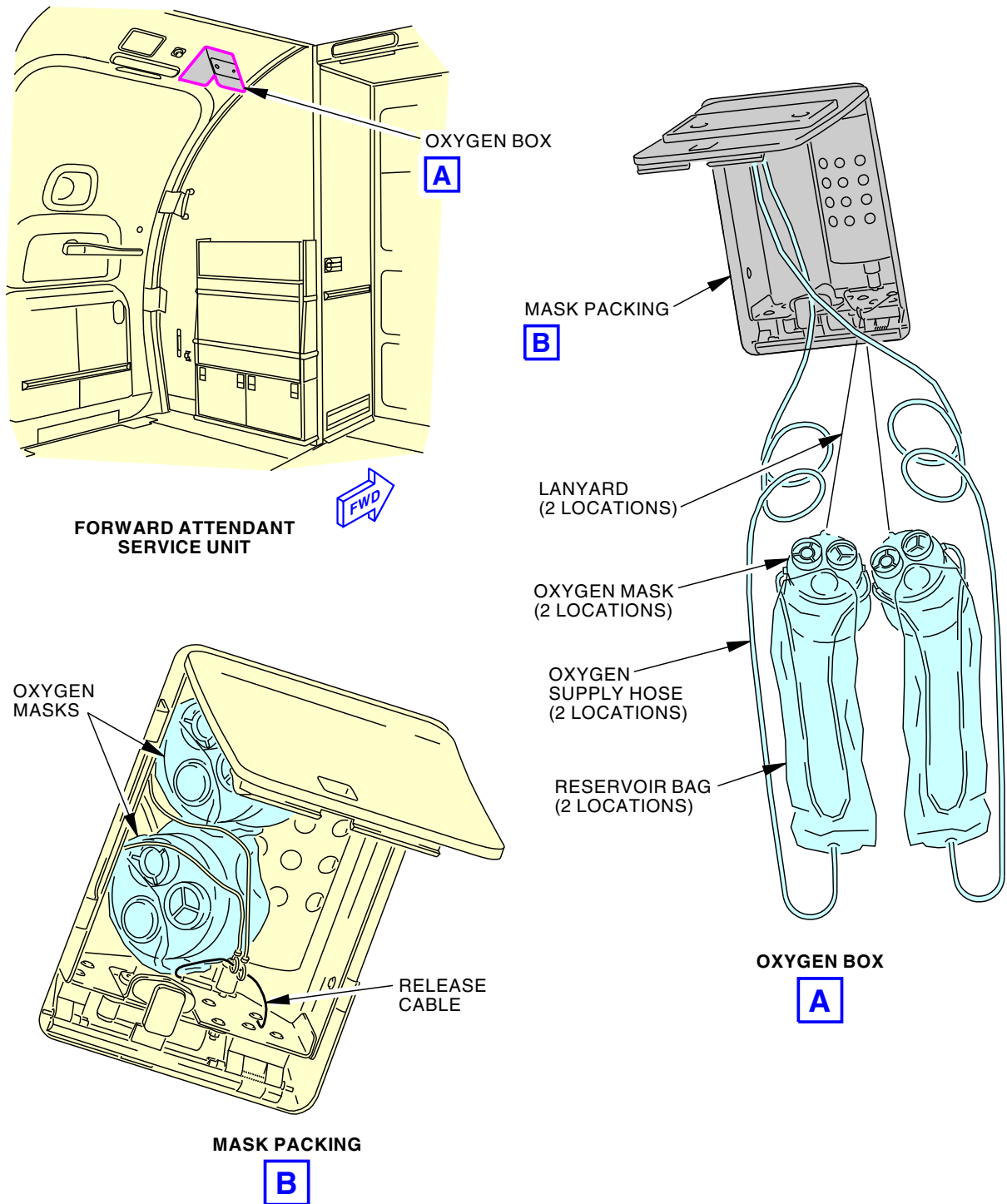
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35-22-31

Page 215
Sep 15/2021



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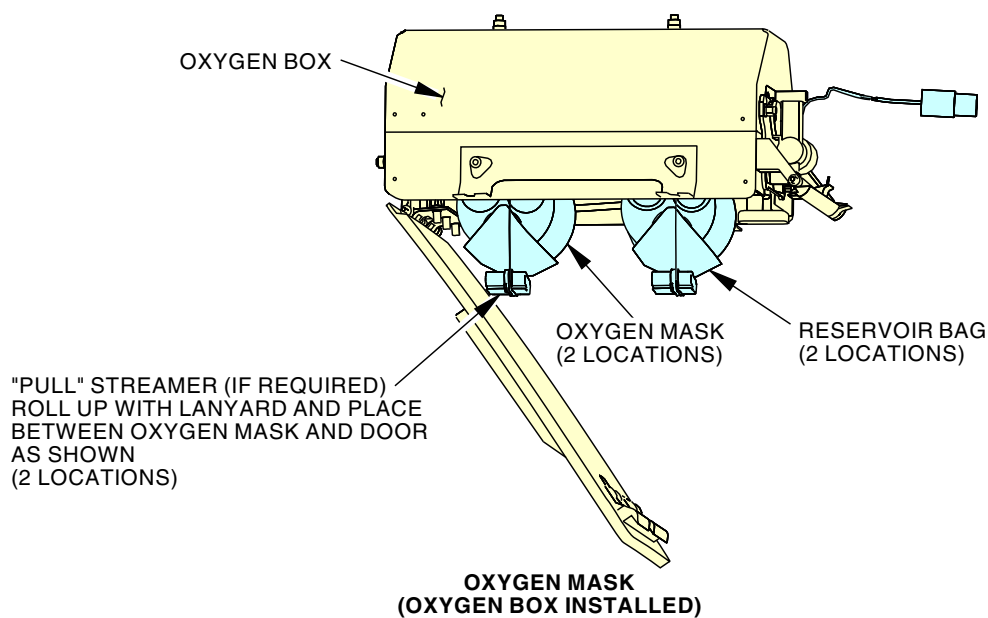
ASU Oxygen Mask Packing Procedure
Figure 203/35-22-31-990-803 (Sheet 1 of 4)

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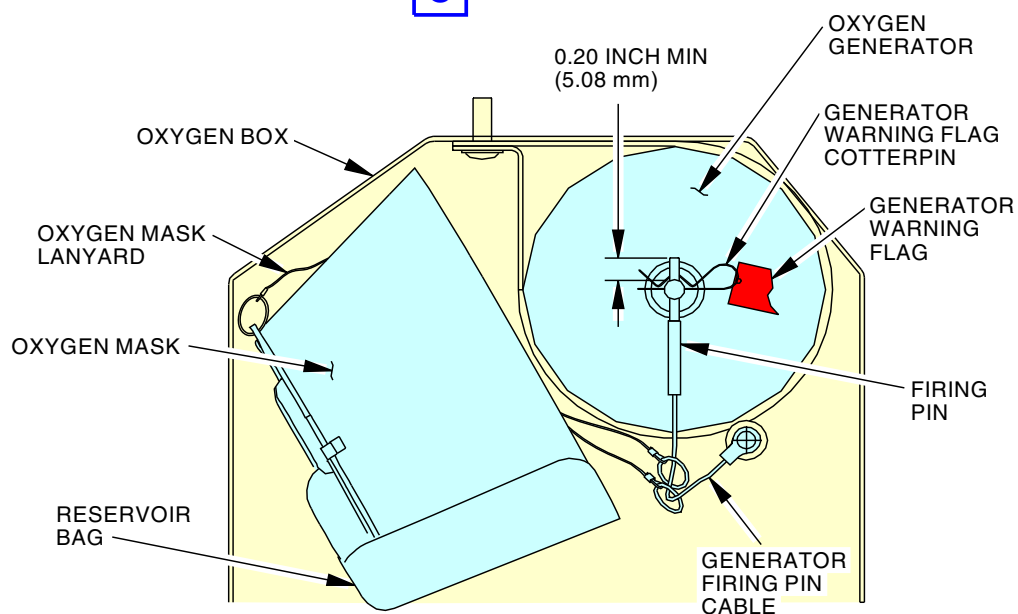
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737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL



C



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 203/35-22-31-990-803 (Sheet 2 of 4)

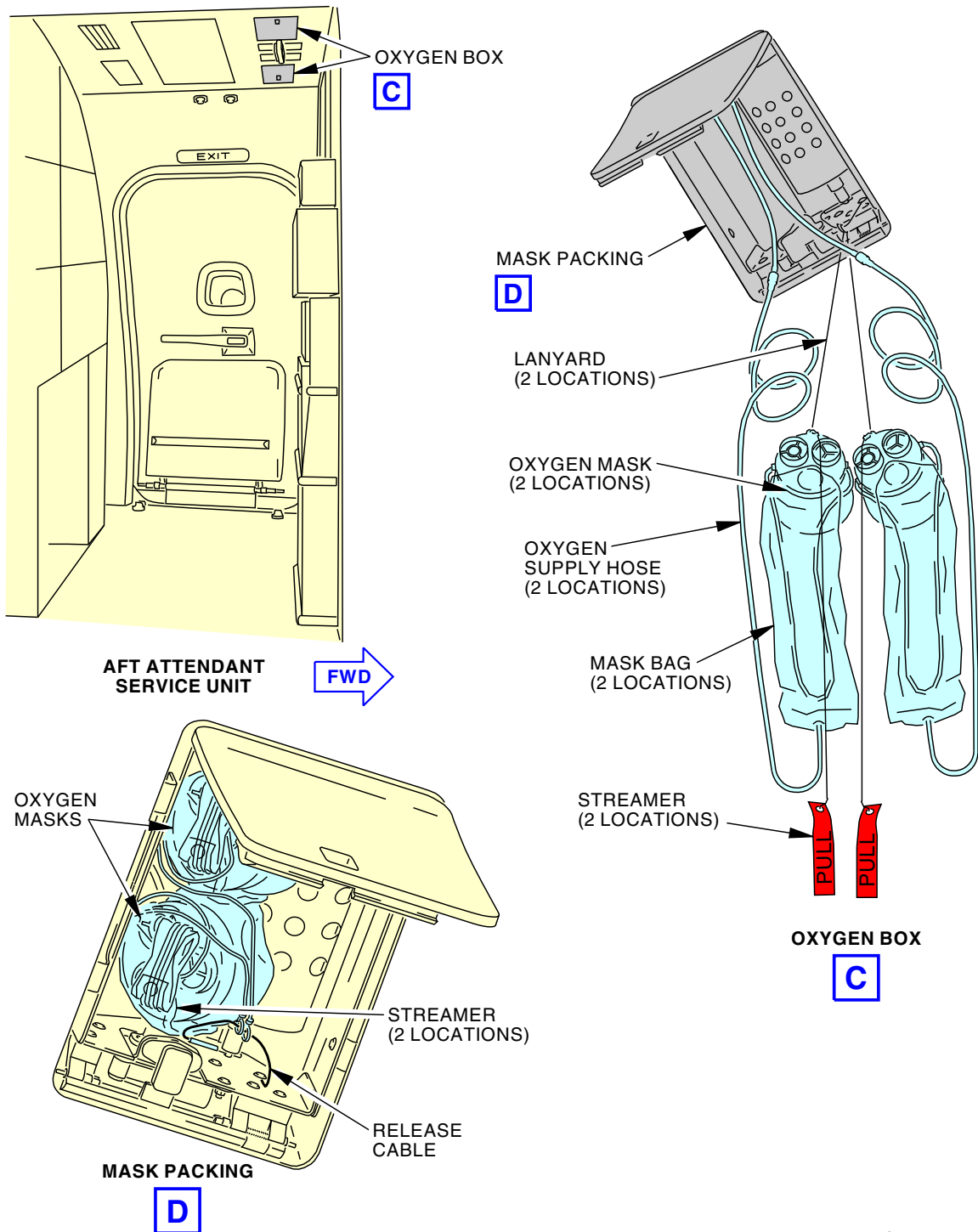
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35-22-31

Page 217
Sep 15/2021



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ASU Oxygen Mask Packing Procedure
Figure 203/35-22-31-990-803 (Sheet 3 of 4)

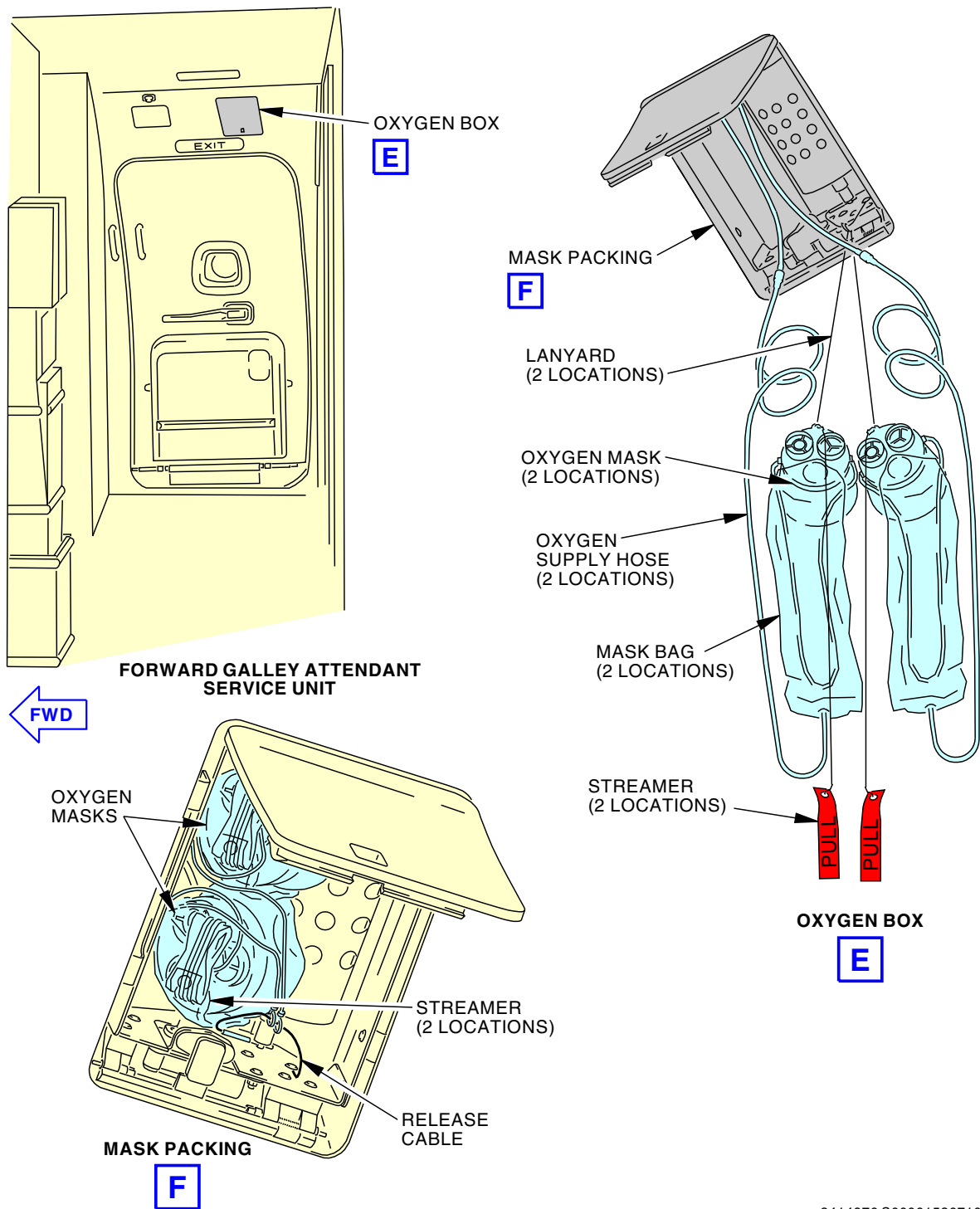
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35-22-31

Page 218
Sep 15/2021



2414976 S00061536710_V1

ASU Oxygen Mask Packing Procedure
Figure 203/35-22-31-990-803 (Sheet 4 of 4)

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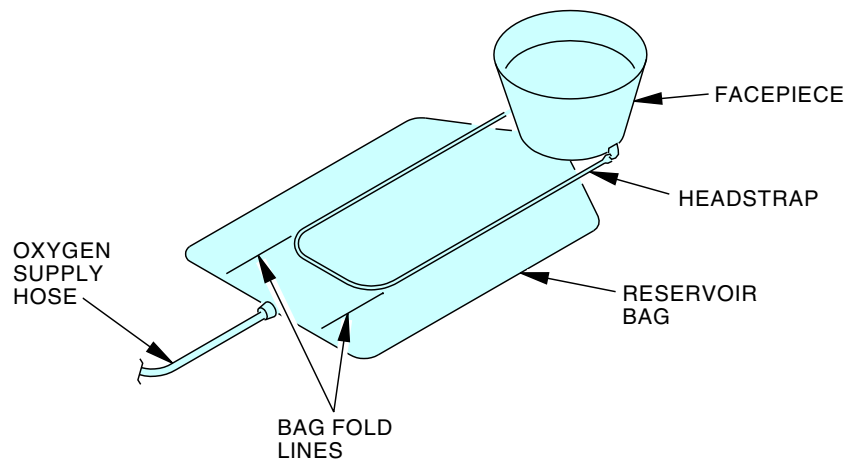
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35-22-31

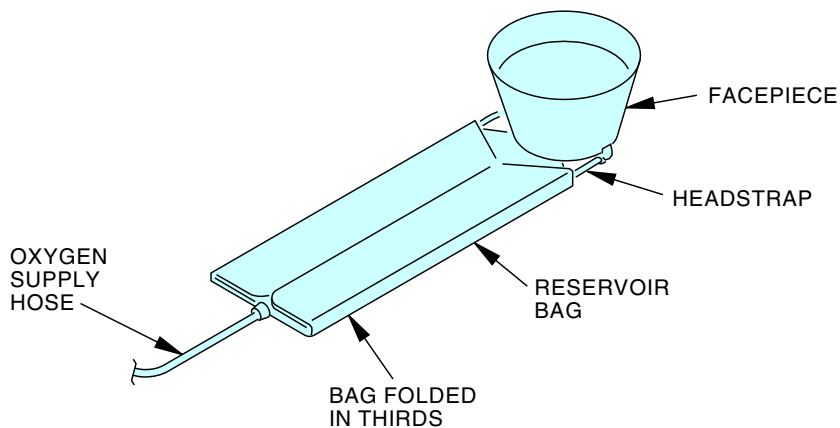
Page 219
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL



STEP 1



STEP 2

PREPARATION OF MASK ASSEMBLY

2414977 S00061536711_V1

Oxygen Mask Packing Procedure
Figure 204/35-22-31-990-804 (Sheet 1 of 3)

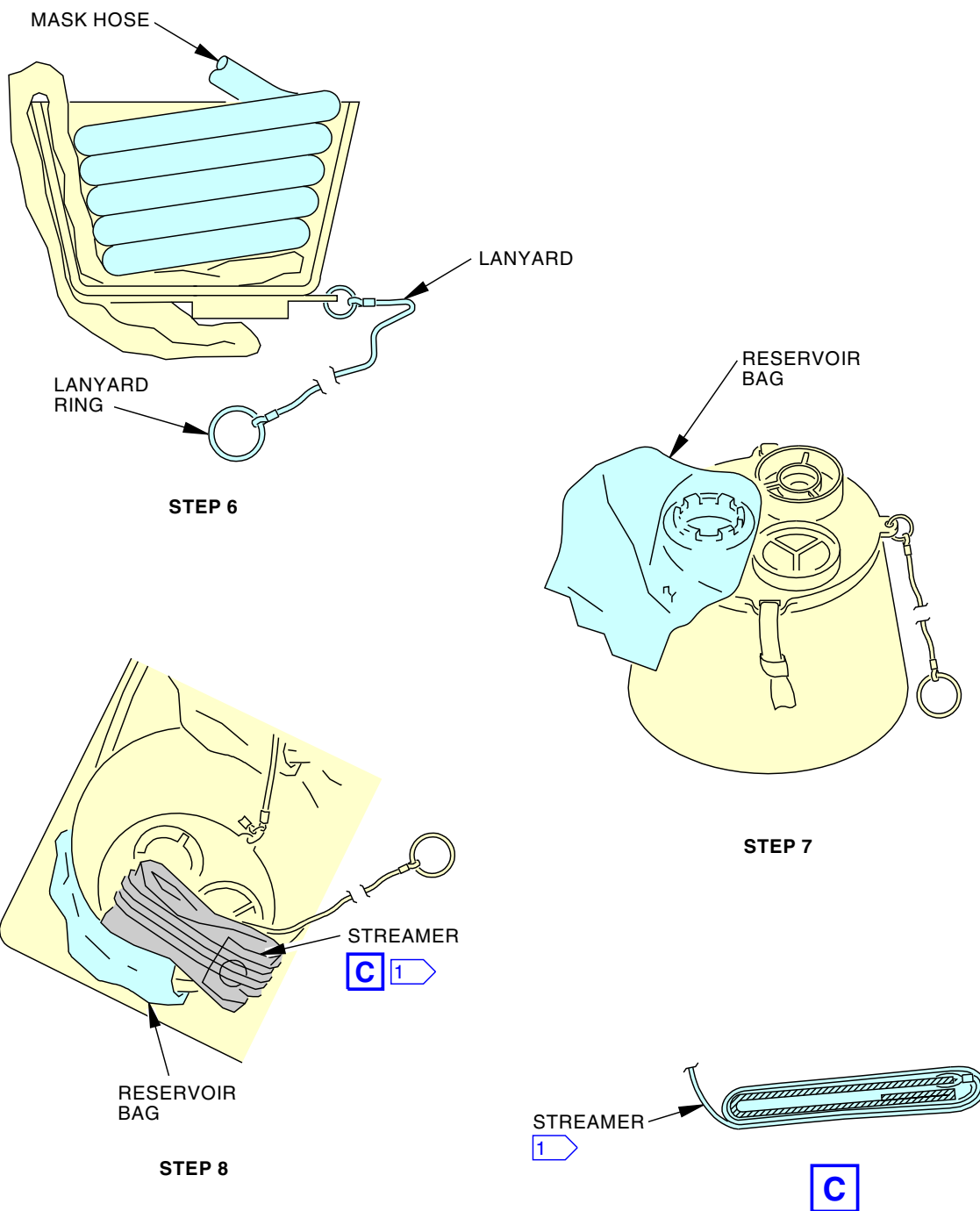
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35-22-31

Page 220
Sep 15/2021



1 INSTALLATIONS WITH OXYGEN MASK STREAMERS

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Oxygen Mask Packing Procedure
Figure 204/35-22-31-990-804 (Sheet 2 of 3)

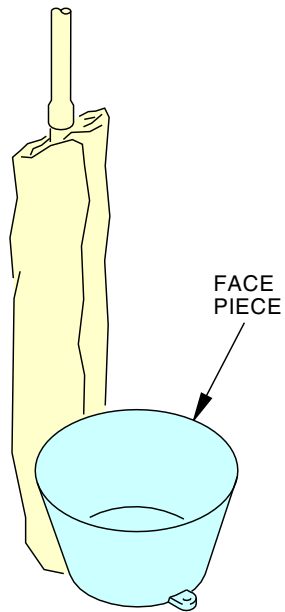
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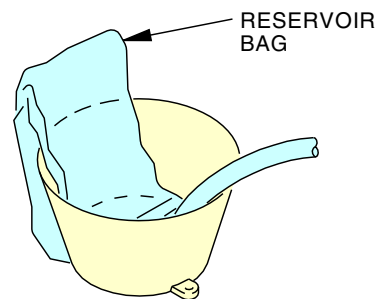
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35-22-31

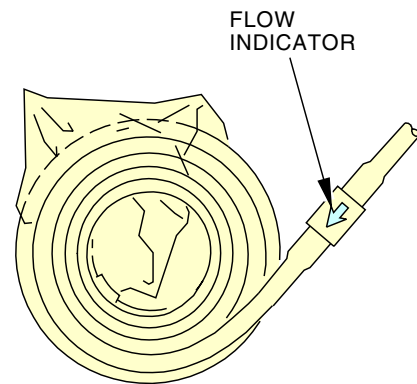
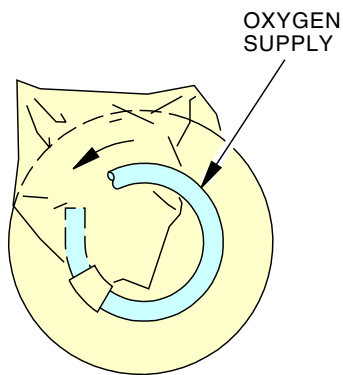
Page 221
Sep 15/2021



STEP 3



STEP 4



STEP 5

2414979 S00061536713_V1

Oxygen Mask Packing Procedure
Figure 204/35-22-31-990-804 (Sheet 3 of 3)

EFFECTIVITY
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35-22-31

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Page 222
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

TASK 35-22-31-420-802

4. LSU Oxygen Mask Packing

(Figure 205, Figure 206)

A. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-31-000-803	LSU Oxygen Mask Removal (P/B 401)
35-22-31-400-803	LSU Oxygen Mask Installation (P/B 401)
35-22-51-040-801	Oxygen Cylinder (CDS) Deactivation (P/B 201)
35-22-51-440-801	Oxygen Cylinder (CDS) Activation (P/B 201)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Prepare for the Packing

SUBTASK 35-22-31-910-003

- (1) Read and obey the safety precautions and general instructions for the oxygen system before the maintenance is done (TASK 35-00-00-910-801).

SUBTASK 35-22-31-010-004

- (2) Do these steps to open a Lavatory Service Unit (LSU) oxygen box (if it is necessary):

- (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 the oxygen mask lanyard is pulled, the oxygen cylinder will release oxygen.

SUBTASK 35-22-31-040-003

- (3) Do this task: Oxygen Cylinder (CDS) Deactivation, TASK 35-22-51-040-801.

SUBTASK 35-22-31-210-008

- (4) Do a check of the applicable oxygen masks:

- (a) Make sure that the oxygen masks are not torn or damaged.
- (b) Make sure that the oxygen masks are clean and free from contamination such as:
 - 1) Dirt
 - 2) Grease
 - 3) Oil
 - 4) Unwanted material.

SUBTASK 35-22-31-210-009

- (5) Do a check of the applicable oxygen supply hoses:

- (a) Make sure that the oxygen supply hoses are not torn or damaged.
- (b) Make sure that the oxygen supply hoses are soft and flexible.
- (c) Make sure that the color of the oxygen supply hoses has not deteriorated.

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D633AM101-SIA

35-22-31

Page 223
Sep 15/2022



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

- (d) Make sure that each mask is held securely to the oxygen supply hose.

SUBTASK 35-22-31-900-003

- (6) If an oxygen mask or oxygen supply hose is not serviceable, do these tasks:
- LSU Oxygen Mask Removal, TASK 35-22-31-000-803
 - LSU Oxygen Mask Installation, TASK 35-22-31-400-803.

D. LSU Oxygen Mask Packing

SUBTASK 35-22-31-410-008

- (1) Go to the applicable LSU, found in the ceiling of each lavatory.

SUBTASK 35-22-31-420-005

- (2) Do these steps to fold an oxygen mask (Figure 206):

NOTE: Fold one mask at a time and then put the folded mask in the oxygen mask box.
Continue with the remaining oxygen mask.

- (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 that 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 the mask is positioned in the LSU.

SUBTASK 35-22-31-420-006

- (3) Do these steps to install the oxygen masks in the oxygen box (Figure 205):
- (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 oxygen box door to hold the door partially open.

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D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-31

Page 224
Sep 15/2022



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

- 1) Make sure that there is enough space to put the oxygen masks on the top of the oxygen box door.
- (c) Turn the folded oxygen mask until the open end of the face piece is up.
- (d) 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 face piece towards the top surface of the oxygen box).
 - 2) Make sure that the deployment strap is positioned between the open end of the face piece and the top surface of the oxygen box.
 - 3) Position the oxygen mask with the reservoir bag away from the oxygen cylinder, toward the side of the oxygen box.
 - 4) Make sure that the oxygen mask is free to drop straight down and out of the oxygen box.
 - 5) Hold the oxygen mask in this position and do the previous steps again for the other oxygen mask.
 - 6) Make sure that the oxygen masks and lanyard 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

- (4) Do these steps to pack the streamer and streamer cord:
 - (a) Hold the oxygen masks in position.
 - (b) Fold the streamer lengthwise in segments approximately 2 in. (51 mm) 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 face piece.
 - (f) Hold the streamer and oxygen mask in position while the other streamer is coiled.
 - (g) Make sure that 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 35-22-31-440-003

- (5) Do this task: Oxygen Cylinder (CDS) Activation, TASK 35-22-51-440-801.

SUBTASK 35-22-31-210-010

- (6) Do these steps to check the installation of the oxygen masks:
 - (a) Make sure that all of the mask lanyard rings are attached to the lanyard assembly.
 - (b) Do a check of the lanyard assembly routing to make sure that the lanyard assembly release pin will pull away from the oxygen cylinder actuator assembly when the oxygen masks are deployed.
 - (c) Make sure that the supply hoses are not bent too much or crimped.
 - (d) Make sure that the mask lanyards are not wrapped around a hose, elastic band, 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.

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35-22-31

Page 225
Sep 15/2022



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

- (f) Make sure that the steamer 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 ½ in. (13 mm) of being closed and then slightly open the door.
 - 2) Make sure that the oxygen masks partially fall down with the door to make sure that the oxygen masks are free to fall.

SUBTASK 35-22-31-410-009

- (7) Do these steps to close the oxygen box door:
 - (a) Hold the oxygen box door.
 - (b) Remove the masking tape from the oxygen box door (if it is 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 that the oxygen equipment is not caught in the oxygen box door or in the actuator.

———— **END OF TASK** ————

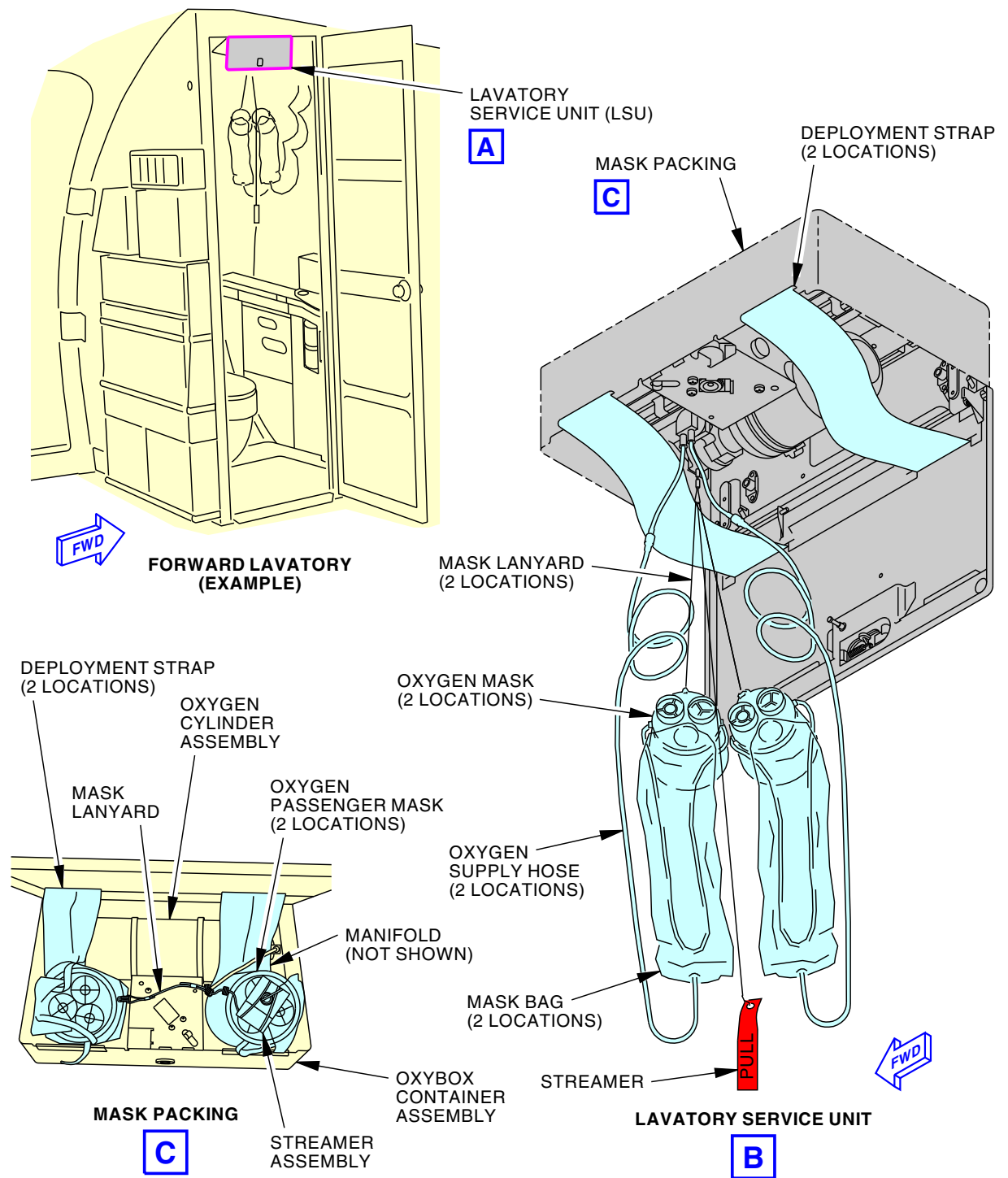
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D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-31

Page 226
Sep 15/2022



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LSU Oxygen Mask Packing
Figure 205/35-22-31-990-805

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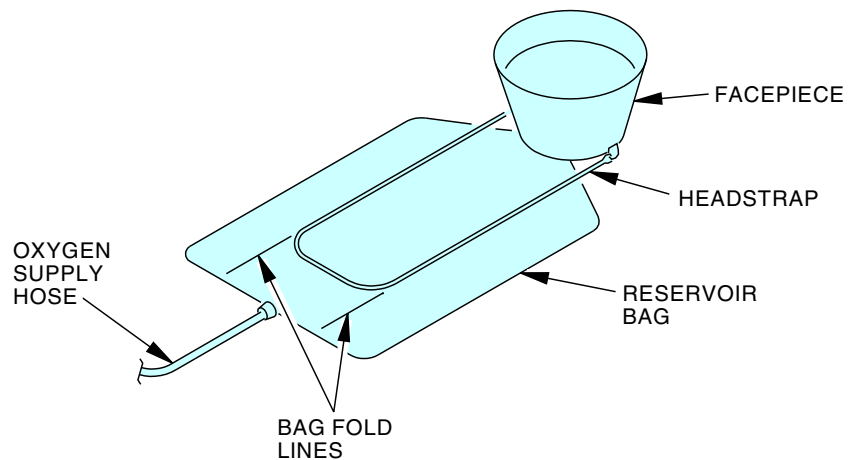
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35-22-31

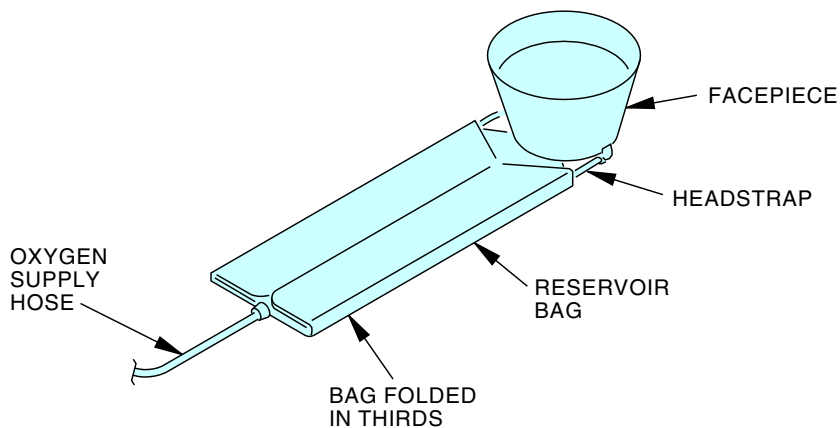
Page 227
Sep 15/2022



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL



STEP 1



STEP 2

PREPARATION OF MASK ASSEMBLY

2414977 S00061536711_V1

Oxygen Mask Packing
Figure 206/35-22-31-990-806 (Sheet 1 of 3)

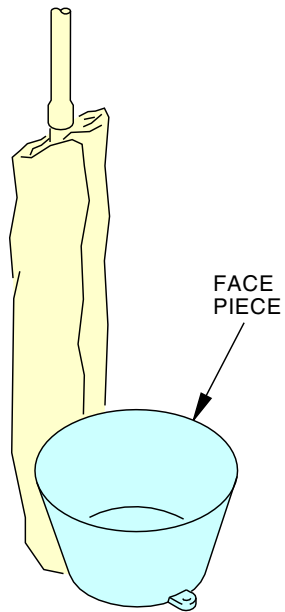
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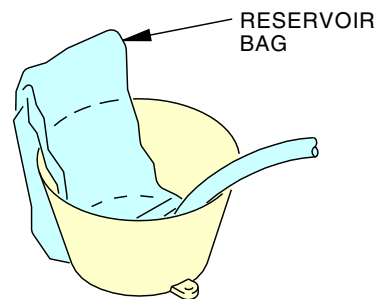
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35-22-31

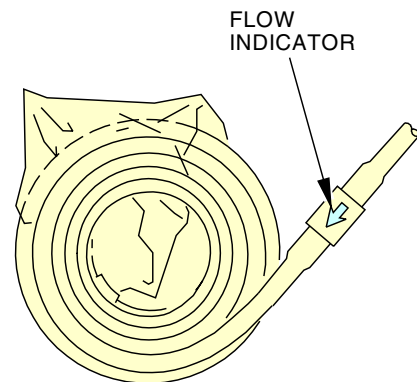
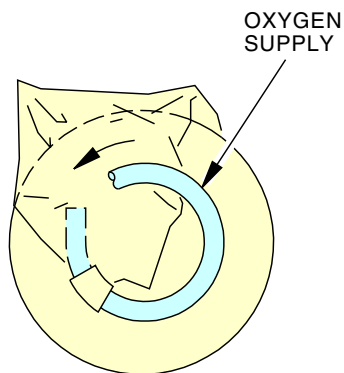
Page 228
Sep 15/2022



STEP 3



STEP 4



STEP 5

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Oxygen Mask Packing
Figure 206/35-22-31-990-806 (Sheet 2 of 3)

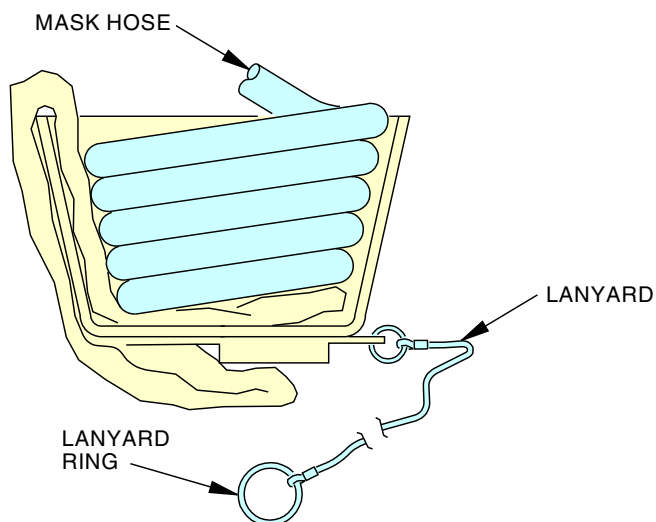
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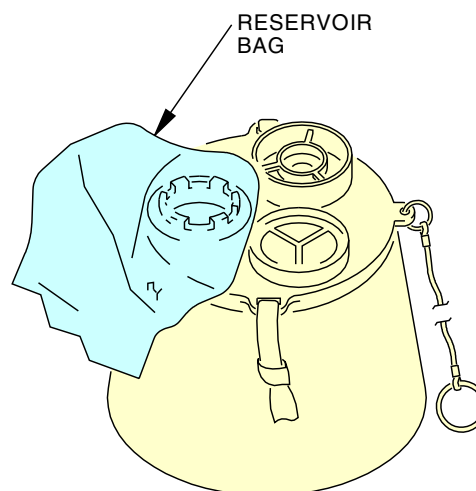
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35-22-31

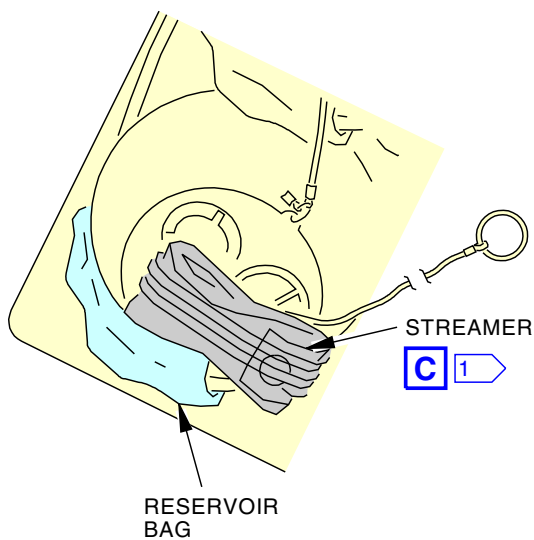
Page 229
Sep 15/2022



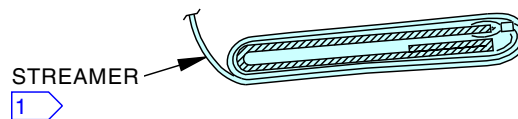
STEP 6



STEP 7



STEP 8



1 INSTALLATIONS WITH OXYGEN MASK STREAMERS

2414978 S00061536712_V1

Oxygen Mask Packing
Figure 206/35-22-31-990-806 (Sheet 3 of 3)

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-31

Page 230
Sep 15/2022



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

TASK 35-22-31-210-801

5. Detailed Inspection of the Oxygen Mask

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
25-23-61 P/B 401	PASSENGER SERVICE UNIT (PSU) - REMOVAL/INSTALLATION
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-11-000-801	Oxygen Generator Deactivation (P/B 201)
35-22-31-000-801	PSU Oxygen Mask Removal (P/B 401)
35-22-31-000-802	ASU Oxygen Mask Removal (P/B 401)
35-22-31-000-803	LSU Oxygen Mask Removal (P/B 401)
35-22-31-400-801	PSU Oxygen Mask Installation (P/B 401)
35-22-31-400-802	ASU Oxygen Mask Installation (P/B 401)
35-22-31-400-803	LSU Oxygen Mask Installation (P/B 401)
35-22-51-040-801	Oxygen Cylinder (CDS) Deactivation (P/B 201)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Prepare for the Inspection

SUBTASK 35-22-31-910-004

- (1) Read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance (TASK 35-00-00-910-801).

SUBTASK 35-22-31-010-005

- (2) Get access to the oxygen masks as follows:
 - (a) Lower the applicable Passenger Service Unit (PSU) for the passenger oxygen masks (PAGEBLOCK 25-23-61/401).
 - (b) For the attendant or lavatory oxygen masks, do these steps:
 - 1) Go to the applicable Attendant Service Unit (ASU) or Lavatory Service Unit (LSU).
 - 2) Put a tool into the latch access hole.
 - 3) Push on the tool to operate the door latch.
 - 4) Open the oxygen box door.
 - 5) Let the oxygen masks fall.

SUBTASK 35-22-31-040-008



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/232°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).

- (3) To deactivate the oxygen generator, do this task: TASK 35-22-11-000-801.

SUBTASK 35-22-31-040-009

- (4) To deactivate the oxygen cylinder, do this task: TASK 35-22-51-040-801.

EFFECTIVITY
SIA ALL

D633AM101-SIA

35-22-31

Page 231
Sep 15/2023



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

D. Detailed Inspection of the Oxygen Mask

SUBTASK 35-22-31-210-011

- (1) Do a detailed inspection of the general condition of the oxygen masks.
 - (a) Make sure that the oxygen masks are not damaged as follows:
 - 1) Torn parts
 - 2) Broken parts
 - 3) Frayed parts
 - 4) Missing parts
 - 5) Holes in parts.
 - (b) Make sure that the oxygen mask does not have these conditions:
 - 1) Stiffness
 - 2) Permanent deformation or kinks.
 - (c) Make sure that oxygen masks are clean and free from contamination such as:
 - 1) Grease or oil
 - 2) Dirt
 - 3) Unwanted material.
 - (d) Make sure that all of the flapper valves are aligned and not damaged.
 - (e) Make sure that the bag and tube do not have changed color.
 - (f) Make sure that the head strap will stretch when you pull it, and goes back when you let it go.
 - (g) Make sure that the face piece does not have odor.
 - (h) Look through the bag and tube and make sure that there is no liquid drops or solid dirt on the internal surface of the bag and tube.
 - (i) If one of the conditions exist, repair or replace the mask assembly.

SUBTASK 35-22-31-210-012

- (2) Do a detailed inspection of the applicable oxygen supply hoses.
 - (a) Make sure that the oxygen supply hoses are not damaged.
 - (b) Make sure that the oxygen supply hoses are soft and flexible.
 - (c) Make sure that the color of the oxygen supply hoses has not changed.

NOTE: If a hose is pinched or shows discoloration of the tube, it is necessary to replace the hose. If there is no sign that the hose has been cut, discolored or crushed to the point of decreased oxygen flow, the hose is satisfactory for use. A small kink of the PSU oxygen tubing is not a cause to reject the tube. The tubing has an internal structure that will let the flow of oxygen when it has a kink.
 - (d) Make sure that the mask is held correctly to the oxygen supply hose.
 - (e) Make sure that the in line flow indicator points to the bag.
 - (f) If one of these conditions is present, repair or replace the mask assembly.

SUBTASK 35-22-31-210-013

- (3) Visually examine the oxygen mask hoses and oxygen mask bags for liquid contamination on the inner and outer surfaces.
 - (a) If liquid contamination exists, replace the applicable oxygen mask assembly.

EFFECTIVITY
SIA ALL

D633AM101-SIA

35-22-31

Page 232
May 15/2023



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

- 1) For the passenger oxygen masks, these are the tasks:
 - PSU Oxygen Mask Removal, TASK 35-22-31-000-801
 - PSU Oxygen Mask Installation, TASK 35-22-31-400-801.
- 2) For the attendant oxygen masks, these are the tasks:
 - ASU Oxygen Mask Removal, TASK 35-22-31-000-802
 - ASU Oxygen Mask Installation, TASK 35-22-31-400-802.
- 3) For the lavatory oxygen masks these are the tasks:
 - LSU Oxygen Mask Removal, TASK 35-22-31-000-803
 - LSU Oxygen Mask Installation, TASK 35-22-31-400-803.

SUBTASK 35-22-31-210-014

- (4) Make sure that the lanyards are attached to the release cable.

SUBTASK 35-22-31-900-004

- (5) If the oxygen mask or oxygen supply hose is not serviceable, replace them when necessary.
 - (a) For the passenger oxygen masks, these are the tasks:
 - PSU Oxygen Mask Removal, TASK 35-22-31-000-801
 - PSU Oxygen Mask Installation, TASK 35-22-31-400-801.
 - (b) For the attendant oxygen masks, these are the tasks:
 - ASU Oxygen Mask Removal, TASK 35-22-31-000-802
 - ASU Oxygen Mask Installation, TASK 35-22-31-400-802.
 - (c) For the lavatory oxygen masks these are the tasks:
 - LSU Oxygen Mask Removal, TASK 35-22-31-000-803
 - LSU Oxygen Mask Installation, TASK 35-22-31-400-803.

SUBTASK 35-22-31-530-001

- (6) To pack the oxygen mask for the PSU, do this task: TASK 35-22-31-440-801.

SUBTASK 35-22-31-530-002

- (7) To pack the oxygen mask for the ASU, do this task: TASK 35-22-31-420-801.

SUBTASK 35-22-31-530-003

- (8) To pack the oxygen mask for the LSU, do this task: TASK 35-22-31-420-802.

SUBTASK 35-22-31-410-010

- (9) Close the applicable service unit access.
 - (a) Close the PSU for the passenger oxygen masks (PAGEBLOCK 25-23-61/401).
 - (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** —————

EFFECTIVITY
SIA ALL

D633AM101-SIA

35-22-31

Page 233
Sep 15/2023



737-7/8/8200/9/10
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 Oxygen Mask Removal
 - (4) ASU Oxygen Mask Installation
 - (5) LSU Oxygen Mask Removal
 - (6) 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. 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.
- D. Before you do maintenance on an oxygen system component that contains an oxygen cylinder (CDS) you must install a safety pin in the actuator assembly. The safety pin will let the oxygen cylinder be handled and stored. If the safety pin is not installed, the oxygen cylinder can release oxygen.

TASK 35-22-31-000-801

2. PSU Oxygen Mask Removal

(Figure 401)

A. **References**

Reference	Title
25-23-61-000-801	Passenger Service Unit - Removal (P/B 401)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-11-000-801	Oxygen Generator Deactivation (P/B 201)

B. **Location Zones**

Zone	Area
200	Upper Half of Fuselage

C. **Remove the PSU Oxygen Masks**

SUBTASK 35-22-31-910-005

- (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.

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-31

Page 401
Sep 15/2021



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-22-31-860-001

- (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 35-22-31-010-006

- (3) To lower the PSU, do this task: Passenger Service Unit - Removal, TASK 25-23-61-000-801.

SUBTASK 35-22-31-010-007



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/232°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 35-22-11-000-801.

SUBTASK 35-22-31-010-008

- (5) Do these steps to remove the oxygen masks [6] from the mask box [9]:
- Remove the mask box cover [1] from the mask box [9].
 - Keep the mask box cover [1] for the installation.
 - Pull the oxygen masks [6] with the oxygen supply lines [7] and lanyards [5] up through the top of the mask box [9].
 - Let the oxygen masks [6] hang from the top of the PSU.
 - Make sure that the safety pin and flag [13] is fully installed to the generator firing mechanism [15]. Then remove the release cable pin [14] from the oxygen generator.
 - Remove the lanyard rings [3] from the end of the release cable [2].
 - Disconnect the oxygen supply lines [7] from the oxygen manifold [8] of the oxygen generator. Then disconnect the oxygen supply line [7] from the supply line clip [11] of the PSU.
 - Remove the oxygen masks [6] from the airplane.

SUBTASK 35-22-31-970-001

- (6) 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** —————

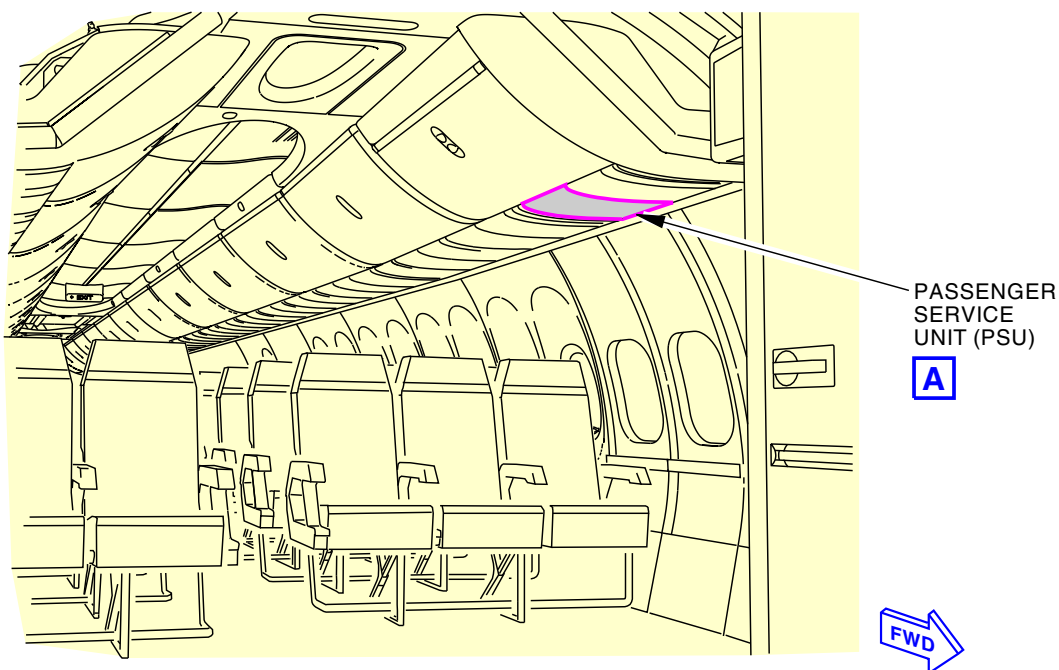
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35-22-31

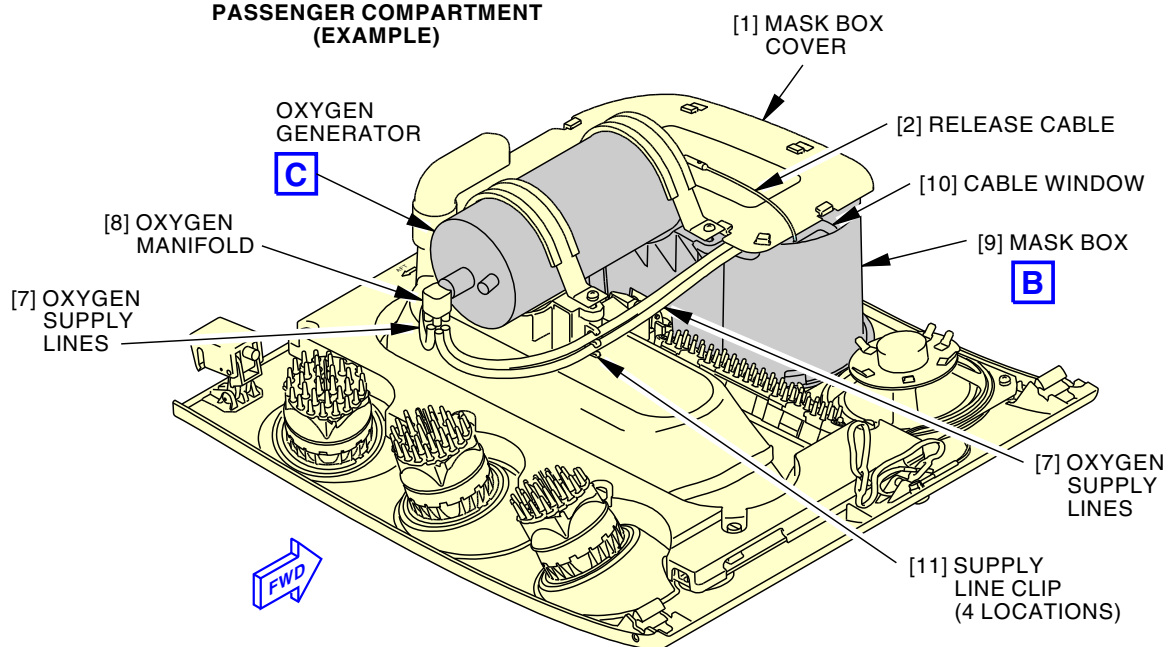
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

Page 402
Sep 15/2021



PASSENGER COMPARTMENT
(EXAMPLE)



PASSENGER SERVICE UNIT (PSU)

A

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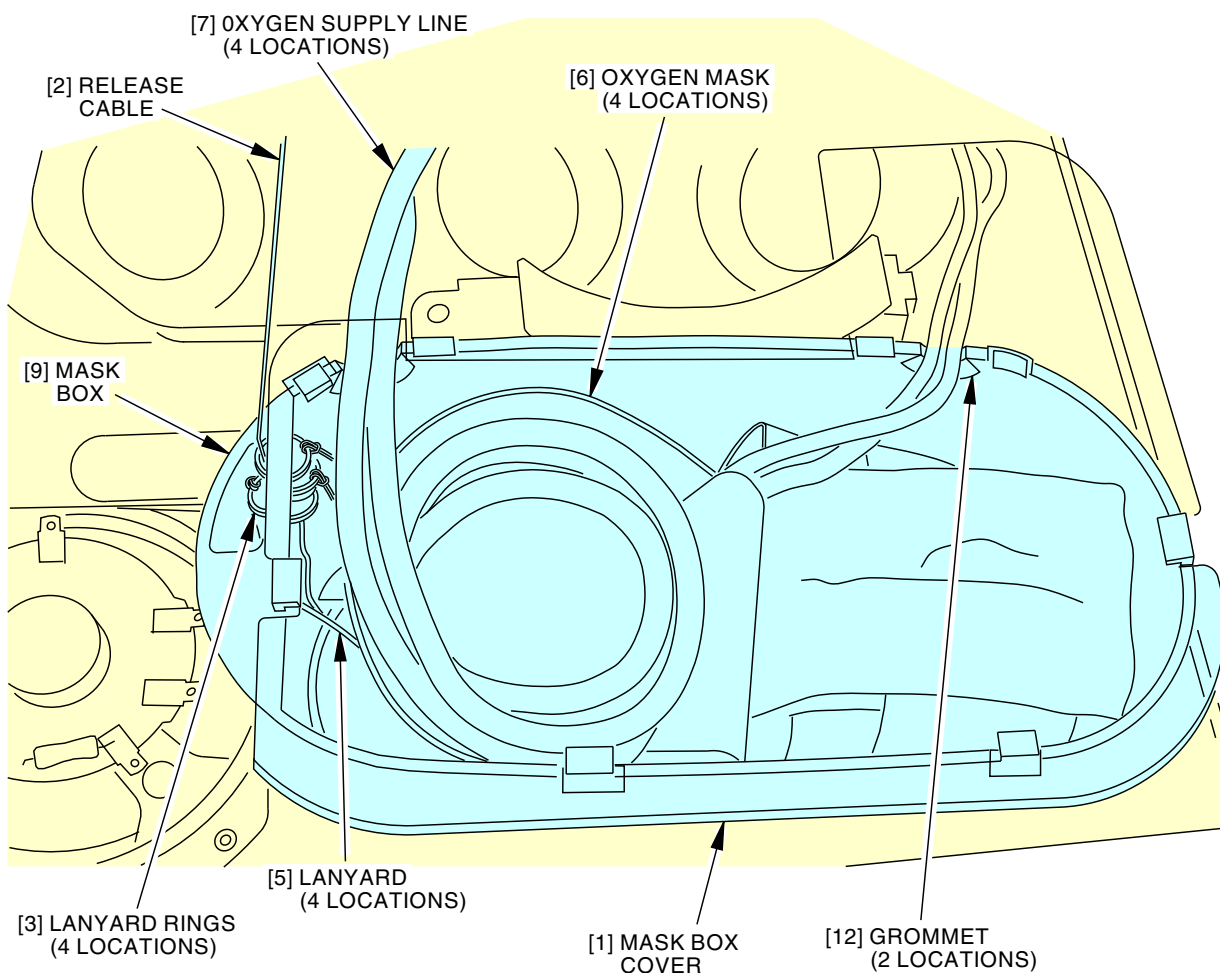
PSU Oxygen Mask Installation
Figure 401/35-22-31-990-807 (Sheet 1 of 3)

EFFECTIVITY
SIA ALL

35-22-31

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details



**MASK BOX
(OXYGEN GENERATOR NOT SHOWN)**

B

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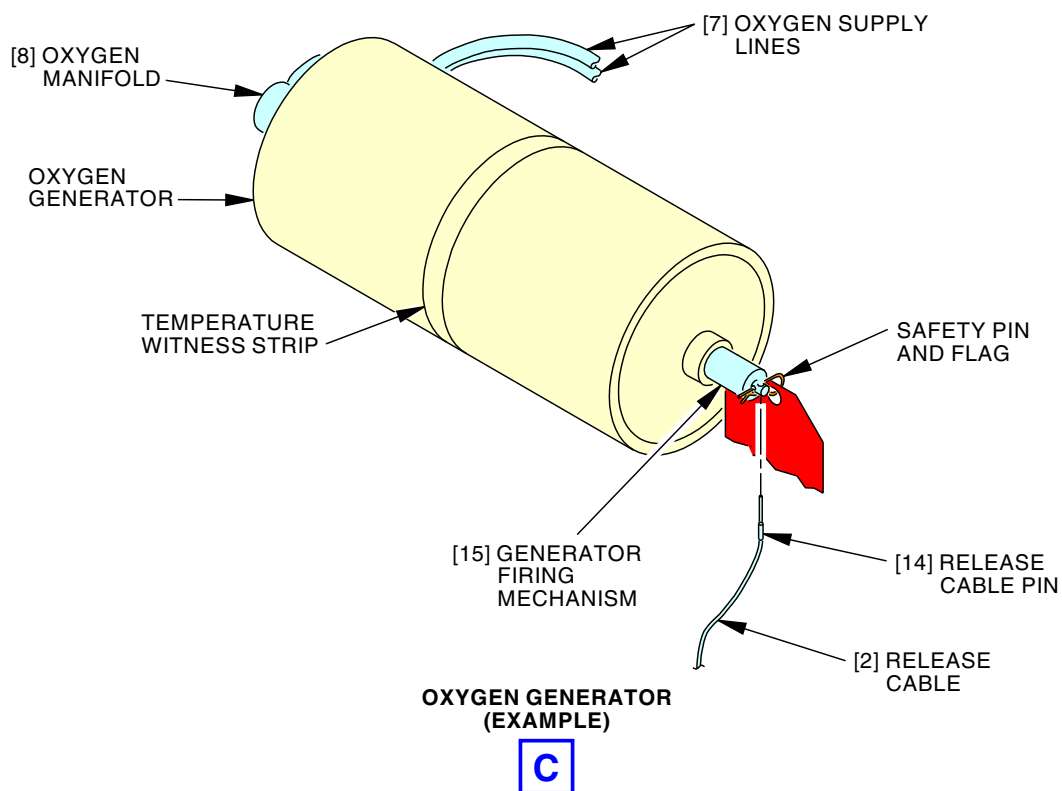
PSU Oxygen Mask Installation
Figure 401/35-22-31-990-807 (Sheet 2 of 3)

EFFECTIVITY
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D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-31



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PSU Oxygen Mask Installation
Figure 401/35-22-31-990-807 (Sheet 3 of 3)

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-31

Page 405
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

TASK 35-22-31-400-801

3. PSU Oxygen Mask Installation

(Figure 401)

A. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-11-400-801	Oxygen Generator Activation (P/B 201)
35-22-31-440-801	PSU Oxygen Mask Packing (P/B 201)

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
6	Oxygen mask	35-22-31-64A-075	SIA 001-007
		35-22-31-64M-065	SIA 008-999

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Procedure

SUBTASK 35-22-31-910-006

- (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 35-22-31-210-015

- (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 35-22-31-210-016

- (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.
 - (d) Make sure the oxygen masks [6] are held securely to the oxygen supply lines.

SUBTASK 35-22-31-900-005

- (4) If an oxygen mask or oxygen supply line is not serviceable, replace the oxygen mask [6].

SUBTASK 35-22-31-420-008

- (5) Do this task: PSU Oxygen Mask Packing, TASK 35-22-31-440-801.

SUBTASK 35-22-31-420-009

- (6) Do these steps to install the oxygen masks [6] in the PSU:

EFFECTIVITY
SIA ALL

35-22-31

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Page 406
Jan 15/2022



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

- (a) Put the oxygen masks [6] adjacent to the mask box [9].
- (b) Put the release cable [2] through the lanyard ring [3] of the two outboard oxygen masks [6].
- (c) Then put the release cable [2] through the lanyard ring [3] of the two inboard oxygen masks [6].
- (d) Put the release cable through the triangular cable window [10] of the mask box [9].
- (e) Install the oxygen supply lines [7] to the oxygen manifold [8] of the oxygen generator.
- (f) Put the oxygen supply lines [7] in the installed positions on the opposite sides of the oxygen generator. Then install the oxygen supply lines [7] in the supply line clips [11] of the PSU assembly.
- (g) Install the oxygen supply lines [7] in the two grommets [12] of the mask box [9].
- (h) Install the release cable pin [14] in the generator firing mechanism [15] of the oxygen generator.

SUBTASK 35-22-31-420-010

- (7) Do the oxygen mask packing task (TASK 35-22-31-440-801).

SUBTASK 35-22-31-440-004

- (8) Do this task: Oxygen Generator Activation, TASK 35-22-11-400-801.

SUBTASK 35-22-31-860-002

- (9) 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

SUBTASK 35-22-31-970-002

- (10) 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

4. ASU Oxygen Mask Removal

(Figure 402)

A. General

- (1) The ASU oxygen masks are found above the attendant seats.

B. References

<u>Reference</u>	<u>Title</u>
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-11-000-801	Oxygen Generator Deactivation (P/B 201)

C. Location Zones

<u>Zone</u>	<u>Area</u>
200	Upper Half of Fuselage

EFFECTIVITY
SIA ALL

35-22-31

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Page 407
Sep 15/2021



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

D. Remove the ASU Oxygen Masks

SUBTASK 35-22-31-910-007

- (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

- (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 35-22-31-010-009

- (3) Go to the applicable ASU in the passenger compartment.

SUBTASK 35-22-31-010-010

- (4) Do these steps to open the oxygen box door [22]:
 - (a) Put the flat tool in the door edge gap.
 - (b) Push the flat tool up against the oxygen box door latch [24].
 - (c) Open the oxygen box door [22].
 - (d) Let the oxygen masks [28] or oxygen masks [30] fall.
 - (e) Do not pull on the oxygen masks [28] or oxygen masks [30].

NOTE: If you pull on the oxygen masks, the oxygen generator [25] will fire.

SUBTASK 35-22-31-040-004



MAKE SURE THAT THE SAFETY PIN WITH A WARNING FLAG IS INSTALLED ON THE GENERATOR. THE GENERATOR IS A PYROTECHNIC-ACTIVATED DEVICE. IF THE GENERATOR FIRES, IT WILL BECOME VERY HOT (450 DEGREE F OR MORE). IF YOU TOUCH A HOT GENERATOR, YOU WILL GET AN INJURY.

- (5) To deactivate the oxygen generator, do this task: Oxygen Generator Deactivation, TASK 35-22-11-000-801.

SUBTASK 35-22-31-020-001

- (6) Do these steps to remove the oxygen masks [28] or oxygen masks [30] from the oxygen box [21]:
 - (a) Make sure that the safety pin is installed in the oxygen generator [25].
 - (b) Carefully remove the release pin [26] from the oxygen generator [25] (View C, Figure 402).
 - (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, Figure 402).
 - (e) Disconnect the oxygen supply lines [32] from the oxygen generator manifold.
 - (f) Remove the oxygen masks [28] or oxygen masks [30] from the airplane.

EFFECTIVITY
SIA ALL

35-22-31

D633AM101-SIA

Page 408
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-22-31-970-003

- (7) Make a report in the airplane logbook that states that one or more ASU LSU oxygen masks have been removed and must be installed before the airplane is released for flight.

———— **END OF TASK** ————

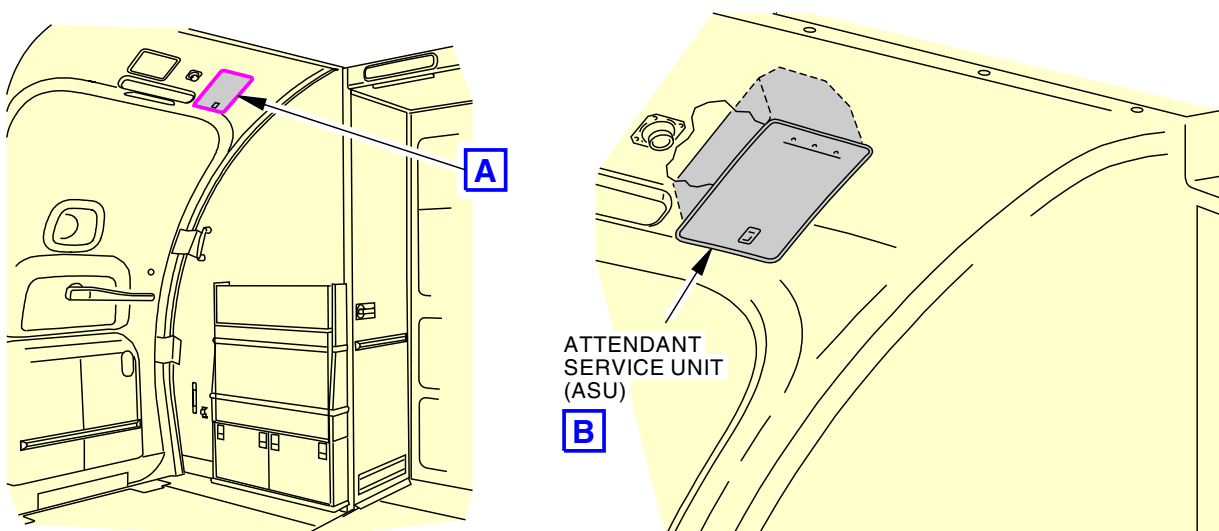
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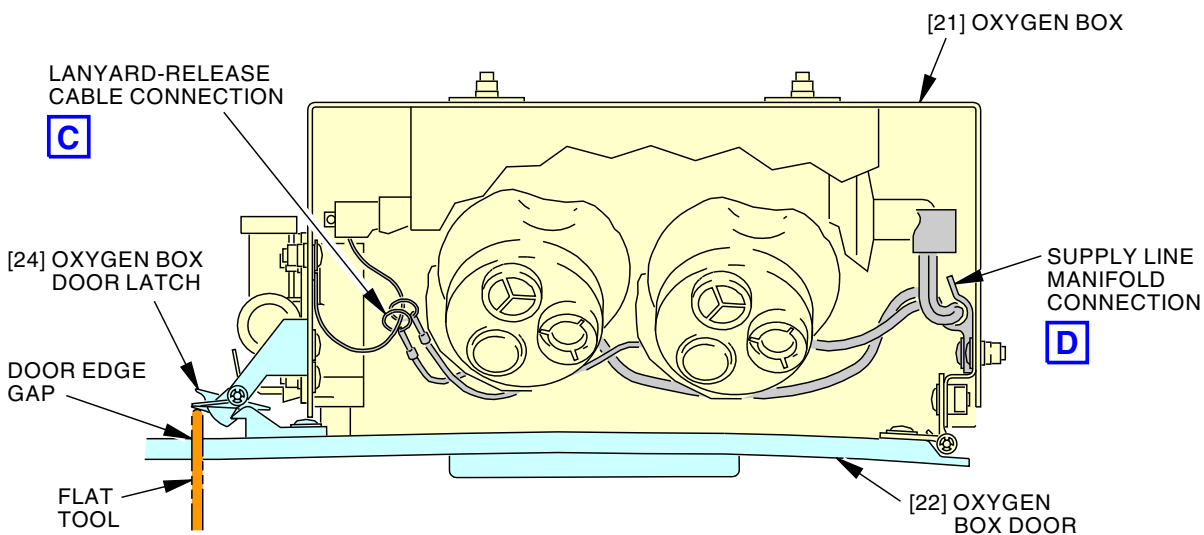
ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-31

Page 409
Sep 15/2021



A



**FORWARD ATTENDANT SERVICE UNIT
(EXAMPLE)**

B 1

1 FORWARD ASU SHOWN AS AN EXAMPLE.
ALL OF THE ATTENDANT SERVICE UNITS
ARE EQUIVALENT.

2414985 S00061536725_V2

ASU Oxygen Mask Installation
Figure 402/35-22-31-990-808 (Sheet 1 of 3)

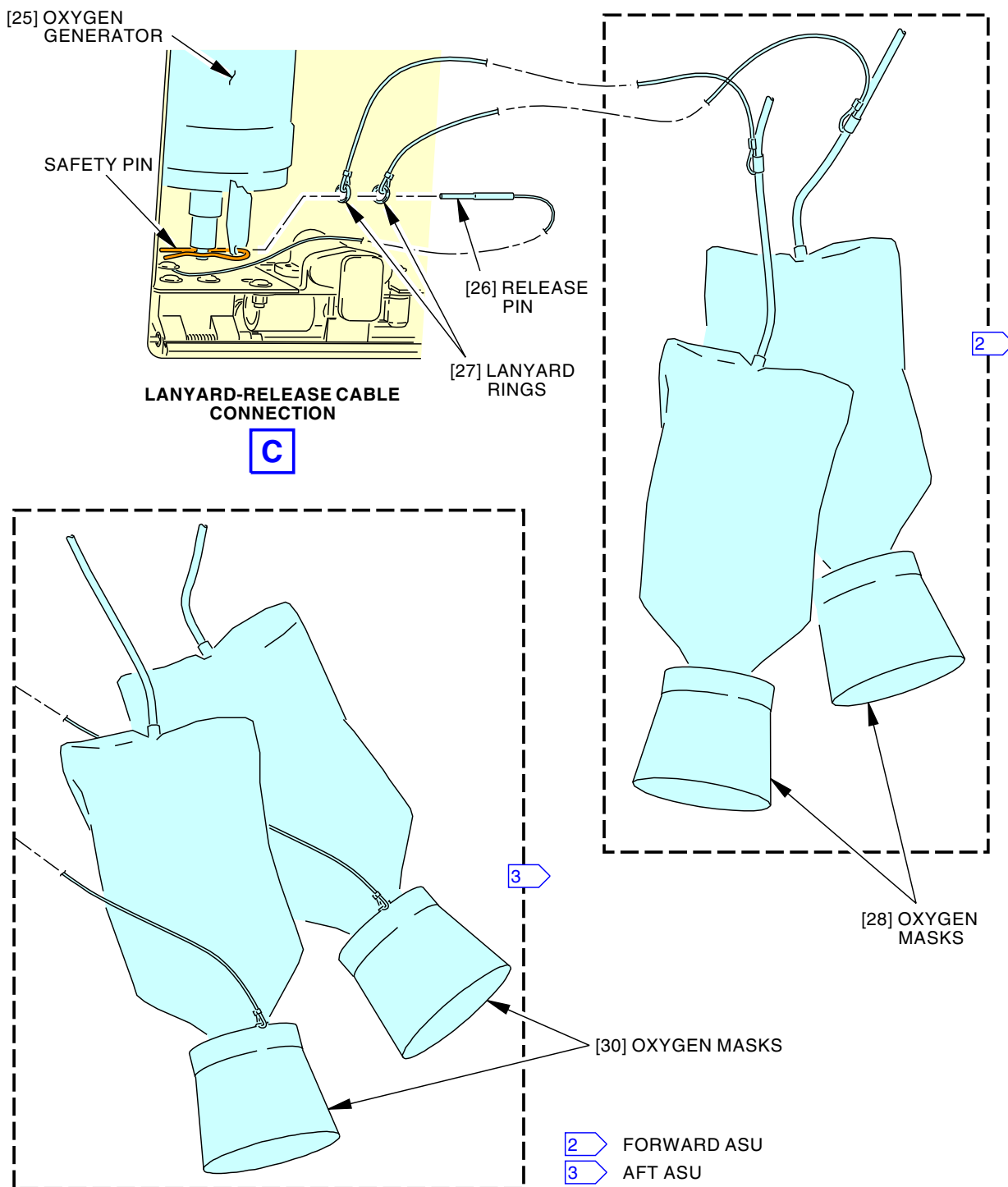
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D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-31

Page 410
Sep 15/2021



2414986 S00061536726_V2

ASU Oxygen Mask Installation
Figure 402/35-22-31-990-808 (Sheet 2 of 3)

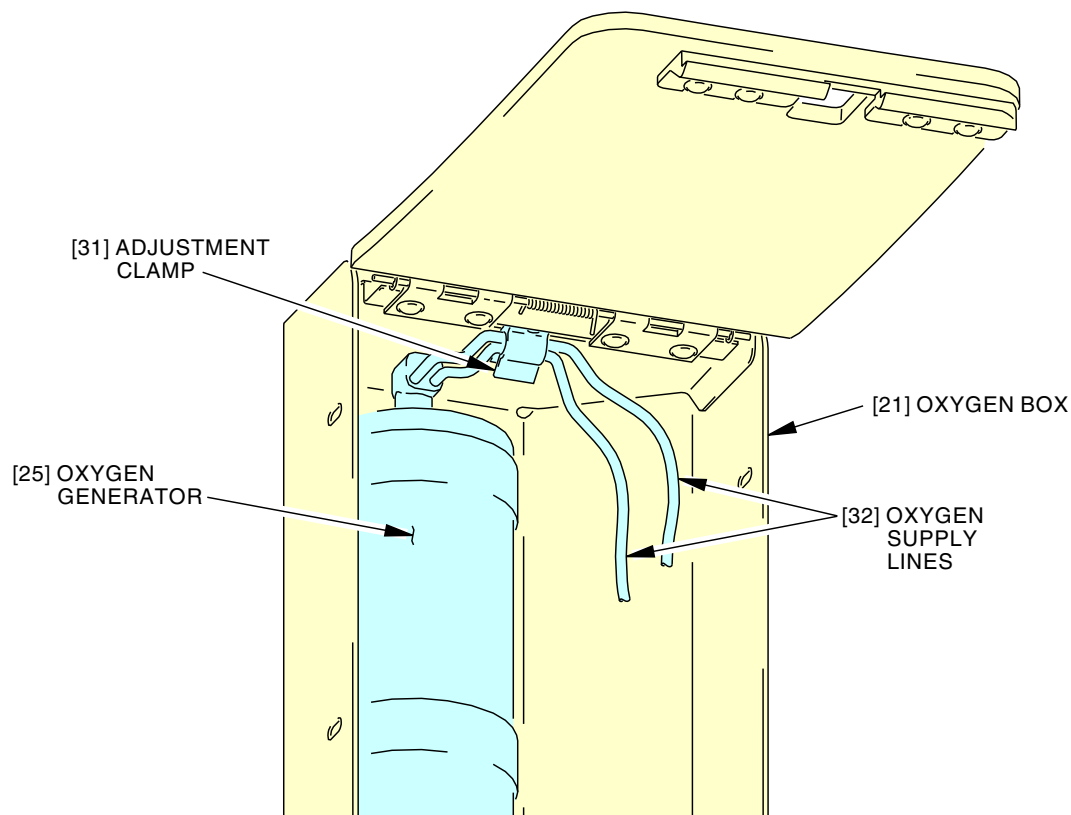
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-31

Page 411
Sep 15/2021



SUPPLY LINE MANIFOLD CONNECTION

D

2414987 S00061536727_V1

ASU Oxygen Mask Installation
Figure 402/35-22-31-990-808 (Sheet 3 of 3)

EFFECTIVITY
SIA ALL

35-22-31

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

TASK 35-22-31-400-802

5. ASU Oxygen Mask Installation

(Figure 402)

A. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-31-420-801	ASU Oxygen Mask Packing (P/B 201)

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
28	Oxygen mask	35-22-31-11-055	SIA ALL
		35-22-31-21-090	SIA ALL
30	Oxygen mask	35-22-31-26-080	SIA ALL

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Procedure

SUBTASK 35-22-31-910-008

- (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 35-22-31-210-017

- (2) Do a check of the replacement oxygen masks [28] or oxygen masks [30]:
 - (a) Make sure that the oxygen masks [28] or oxygen masks [30] are not torn or damaged.
 - (b) Make sure that the oxygen masks [28] or oxygen masks [30] are clean and free from contamination such as:
 - 1) dirt
 - 2) grease
 - 3) oil
 - 4) unwanted material.
 - (c) Make sure that the elastic straps are held securely to the oxygen masks [28] or oxygen masks [30].

SUBTASK 35-22-31-210-018

- (3) Do a check of the oxygen supply line [32] on the replacement oxygen masks [28] or oxygen masks [30].
 - (a) Make sure that the oxygen supply lines [32] are not torn or damaged.
 - (b) Make sure that the oxygen supply lines [32] are soft and flexible.
 - (c) Make sure that the color of the oxygen supply lines [32] have not deteriorated.
 - (d) Make sure that each oxygen mask is held securely to the oxygen supply lines [32].

SUBTASK 35-22-31-900-006

- (4) If an oxygen mask or oxygen supply line [32] is not serviceable, replace the oxygen masks [28] or oxygen masks [30].

EFFECTIVITY
SIA ALL

35-22-31

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Page 413
Sep 15/2021



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-22-31-420-011

- (5) Do these steps to install the oxygen masks [28] or oxygen masks [30] to the oxygen box [21]:
 - (a) Put the oxygen masks [28] or oxygen masks [30] in their positions.
 - (b) Attach the oxygen supply line [32] to the oxygen manifold on the oxygen generator [25] (View D, Figure 402).
 - (c) Make sure that the unused ports on the oxygen generator manifold are plugged.
 - (d) Do these steps to attach the oxygen supply lines [32] through the adjustment clamp [31]:
 - 1) Tighten the adjustment clamp [31] to make sure that the oxygen supply lines [32] does not slip.
 - 2) Make sure that the adjustment clamp [31] does not crimp the oxygen supply lines [32].
 - (e) Attach the lanyard rings [27] to the cable on the release pin [26].
 - (f) Carefully attach the release pin [26] to the firing mechanism on the oxygen generator [25].

SUBTASK 35-22-31-410-011

- (6) Do this task: ASU Oxygen Mask Packing, TASK 35-22-31-420-801.

SUBTASK 35-22-31-860-004

- (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

SUBTASK 35-22-31-970-004

- (8) Remove the report from the airplane logbook that states that the ASU oxygen mask(s) have been removed.

————— END OF TASK —————

TASK 35-22-31-000-803

6. LSU Oxygen Mask Removal

(Figure 403)

A. General

- (1) The LSU oxygen masks are found in each of the lavatories.

B. References

<u>Reference</u>	<u>Title</u>
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-51-040-801	Oxygen Cylinder (CDS) Deactivation (P/B 201)

C. Location Zones

<u>Zone</u>	<u>Area</u>
200	Upper Half of Fuselage

EFFECTIVITY
SIA ALL

35-22-31

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Page 414
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

D. Remove the LSU Oxygen Masks

SUBTASK 35-22-31-910-009

- (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 35-22-31-860-005

- (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 35-22-31-010-011

- (3) Go to the applicable LSU, found in the ceiling of each lavatory.

SUBTASK 35-22-31-010-012

- (4) Do these steps to open the LSU oxygen box door:

- (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 [50] fall.
- (e) Do not pull on the oxygen masks [50].

NOTE: If you pull on the oxygen masks, the oxygen cylinder will release the oxygen.

SUBTASK 35-22-31-040-005

- (5) To deactivate the oxygen cylinder, do this task: Oxygen Cylinder (CDS) Deactivation, TASK 35-22-51-040-801.

SUBTASK 35-22-31-020-002

- (6) Do these steps to remove the oxygen masks [50] from the oxygen box [59]:

- (a) Make sure that the safety pin is installed in the actuator assembly [56].
- (b) Disconnect the ring on each mask lanyard [51] from the release lanyard [58].
- (c) Disconnect the ring on the streamer lanyard [52] from the release lanyard [58].
- (d) Disconnect the oxygen supply hoses [53] from the oxygen manifold [54].
- (e) Remove the oxygen masks [50] from the airplane.

SUBTASK 35-22-31-970-005

- (7) Make a report in the airplane logbook that states that one or more LSU oxygen masks have been removed and must be installed before the airplane is released for flight.

————— **END OF TASK** —————

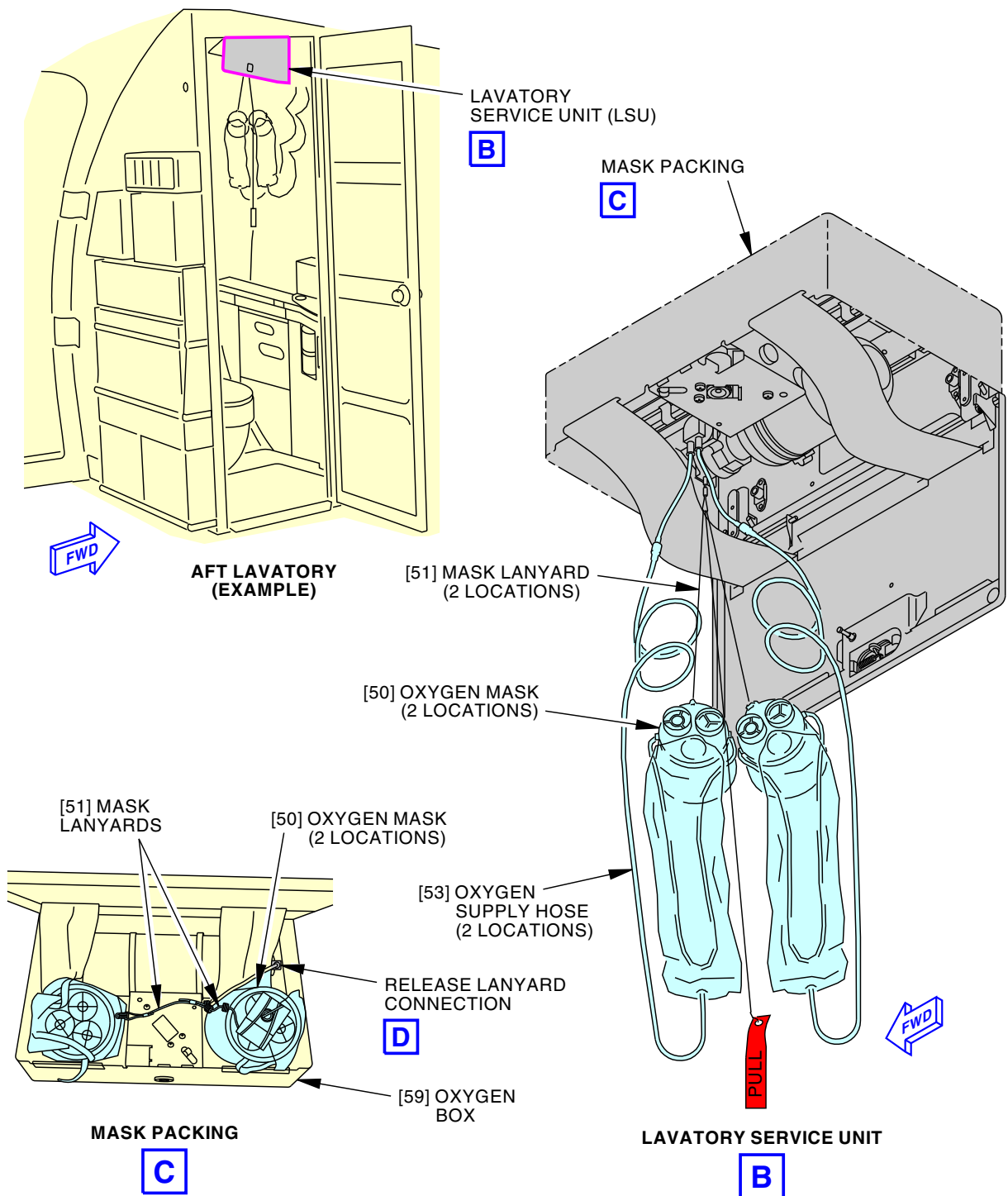
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-31

Page 415
Sep 15/2021



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LSU Oxygen Mask Installation
Figure 403/35-22-31-990-809 (Sheet 1 of 2)

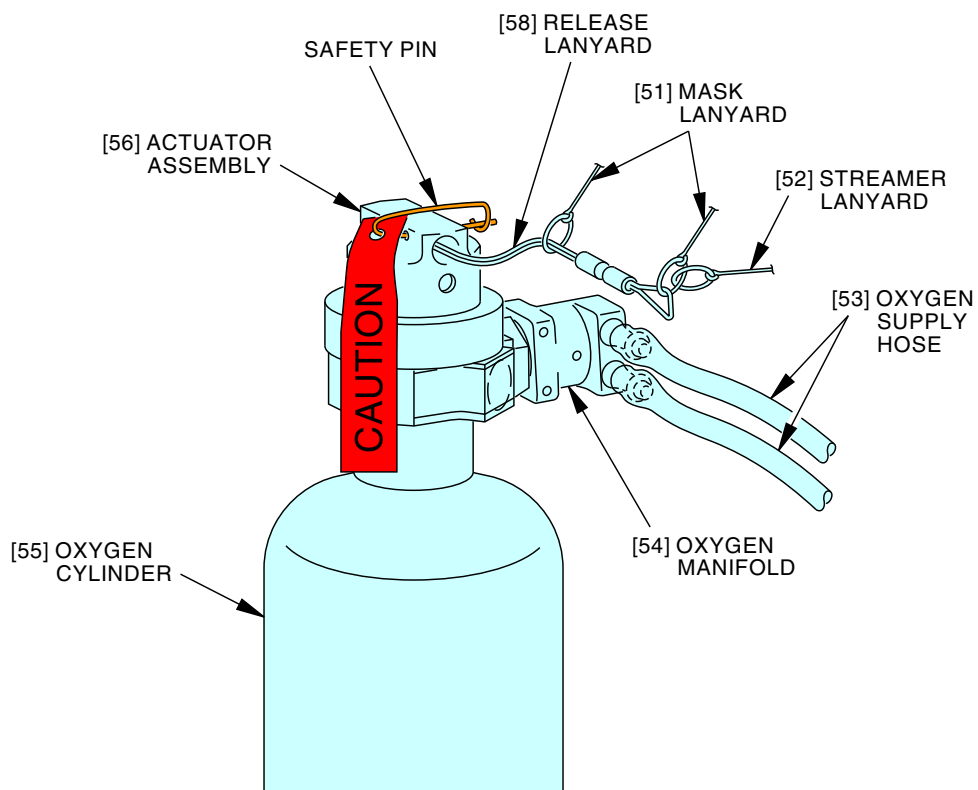
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D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-31

Page 416
Sep 15/2021



RELEASE LANYARD CONNECTION



2414990 S00061536732_V2

LSU Oxygen Mask Installation
Figure 403/35-22-31-990-809 (Sheet 2 of 2)

EFFECTIVITY
SIA ALL

35-22-31

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Page 417
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

TASK 35-22-31-400-803

7. LSU Oxygen Mask Installation

(Figure 403)

A. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-31-420-802	LSU Oxygen Mask Packing (P/B 201)

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
50	Oxygen masks	35-21-00-01A-075	SIA ALL

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Procedure

SUBTASK 35-22-31-910-010

- (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 35-22-31-210-019

- (2) Do a check of the replacement oxygen masks [50]:
 - (a) Make sure the oxygen masks [50] are not torn or damaged.
 - (b) Make sure the oxygen masks [50] 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 [50].

SUBTASK 35-22-31-210-020

- (3) Do a check of the oxygen supply hoses [53] on the replacement oxygen masks [50].
 - (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 hoses [53] have not deteriorated.
 - (d) Make sure each oxygen mask is held securely to the oxygen supply hose.

SUBTASK 35-22-31-900-007

- (4) If an oxygen mask or oxygen supply hose is not serviceable, replace the oxygen masks [50].

SUBTASK 35-22-31-420-012

- (5) Do these steps to install the oxygen masks [50] to the oxygen box [59]:
 - (a) Attach the oxygen supply hoses [53] to the oxygen manifold [54] on the oxygen cylinder [55].
 - (b) Attach the mask lanyard [51] rings to the release lanyard [58].
 - 1) Put the release lanyard [58] through one of the mask lanyard [51] rings.

EFFECTIVITY
SIA ALL

35-22-31

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Page 418
Sep 15/2022



**737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL**

- 2) Attach the remaining mask lanyard [51] ring to the end of the release lanyard [58].

NOTE: The mask lanyard ring at the end of the release lanyard will keep the other mask lanyard ring in position.

- (c) Attach the streamer lanyard [52] to the mask lanyard [51] ring at the end of the release lanyard [58].

SUBTASK 35-22-31-410-012

- (6) Do this task: LSU Oxygen Mask Packing, TASK 35-22-31-420-802.

SUBTASK 35-22-31-860-006

- (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

SUBTASK 35-22-31-970-006

- (8) Remove the report from the airplane logbook that states that the LSU oxygen mask(s) have been removed.

———— **END OF TASK** ————

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-31

Page 419
Sep 15/2021



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

PASSENGER OXYGEN MASK - CLEANING

1. General

- A. This procedure has the following task:
 - (1) Oxygen mask assembly cleaning.
- 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 Unit (PSU), Attendant Service Unit (ASU), and Lavatory Service Unit (LSU).
- D. Boeing recommends replacement of the oxygen mask assemblies within a 6 ft (1.8 m) radius of a suspected viral/bacterial infected passenger. Removed oxygen mask assemblies (mask, bag, and tubing) should be put in a biohazard disposal bag. For the most current guidance, refer to the latest communication from Boeing Customer Support (BCS).

TASK 35-22-31-100-801

2. Oxygen Mask Assembly Cleaning

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.
- (2) Before you do maintenance on an oxygen system component that contains an oxygen cylinder (CDS) you must install a safety pin in the actuator assembly. The safety pin will let the oxygen cylinder be handled and stored. If the safety pin is not installed, the oxygen cylinder can release oxygen.

B. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-11-000-801	Oxygen Generator Deactivation (P/B 201)
35-22-31-420-801	ASU Oxygen Mask Packing (P/B 201)
35-22-31-420-802	LSU Oxygen Mask Packing (P/B 201)
35-22-31-440-801	PSU Oxygen Mask Packing (P/B 201)
35-22-51-040-801	Oxygen Cylinder (CDS) Deactivation (P/B 201)

C. Tools/Equipment

Reference	Description
STD-6435	Respirator - Particulate (Meets NIOSH 42 CFR 84 Class N95, EN149 Class FFP2, or Better)
STD-6437	Goggles - Safety, Non Vented

D. Consumable Materials

Reference	Description	Specification
B00130	Alcohol - Isopropyl	TT-I-735
B00541	Cleaner - General Purpose Household Detergent	

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-31

Page 701
Sep 15/2023



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

(Continued)

Reference	Description	Specification
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	AMS3819 Class 1 Grade A or B Form 1 (Supersede BMS15-5 CLA)
G02418	Water - De-ionized	
G50140	Gloves - Protective, Latex or Nitrile	

E. Location Zones

Zone	Area
200	Upper Half of Fuselage

F. Oxygen Mask Assembly Cleaning

SUBTASK 35-22-31-910-011

- (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 35-22-31-940-001

- (2) Before you get access to the oxygen masks, put on the following personal protective equipment:
 - (a) safety goggles, STD-6437
 - (b) particulate respirator, STD-6435
 - (c) protective gloves, G50140.

NOTE: Nitrile gloves are preferred when in contact with alcohol.

SUBTASK 35-22-31-010-013

- (3) Get access to the applicable oxygen masks in the passenger cabin.

SUBTASK 35-22-31-040-006

 WARNING	A FIRED OXYGEN GENERATOR GETS VERY HOT 450°F, (232°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) Deactivate the oxygen generator, do this task: Oxygen Generator Deactivation, TASK 35-22-11-000-801.

SUBTASK 35-22-31-040-007

- (5) Deactivate the oxygen cylinder, do this task: Oxygen Cylinder (CDS) Deactivation, TASK 35-22-51-040-801.

SUBTASK 35-22-31-210-021

- (6) Make sure that the oxygen masks are not torn or damaged.

SUBTASK 35-22-31-100-001

- (7) If the oxygen mask assembly is dirty or greasy, do these steps to clean the oxygen mask assembly:
 - (a) Mix a mild cleaning solution of general purpose household detergent cleaner, B00541, with warm water.

NOTE: Obey the instructions on the label.

EFFECTIVITY
SIA ALL

D633AM101-SIA

35-22-31

Page 702
Sep 15/2022



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

- (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 35-22-31-100-002

- (8) Do these steps to disinfect the mask assembly:



WARNING

DO NOT GET ISOPROPYL ALCOHOL IN YOUR MOUTH, EYES, OR ON YOUR SKIN. DO NOT BREATHE THE FUMES FROM THE ISOPROPYL ALCOHOL. KEEP THE ISOPROPYL ALCOHOL AWAY FROM SPARKS, FLAME, AND HEAT. ISOPROPYL ALCOHOL IS POISONOUS AND FLAMMABLE, WHICH CAN CAUSE INJURIES TO PERSONS AND DAMAGE TO EQUIPMENT.

- (a) Mix a disinfectant solution of 70 percent alcohol, B00130, and 30 percent de-ionized water, G02418.

- (b) Wipe the mask assembly with a clean cotton wiper, G00034, soaked in disinfectant solution.

NOTE: Refer to the EPA List N or local health authority guidance for required contact/dwell time for isopropyl alcohol to be used as a disinfectant.

- 1) Make sure that the interior and exterior surfaces of the facepiece are thoroughly wiped.

- (c) Let the mask assembly to air dry completely.

- (d) Examine each mask assembly in a well lighted area.

- 1) Make sure that the mask assembly is visibly clean and free of contamination.
2) Make sure that the flappers and diaphragms are seated correctly.

- (e) Discard the safety goggles, STD-6437, particulate respirator, STD-6435, and protective gloves, G50140.

NOTE: Refer to the airline, local health, safety and regulatory procedures for disposal of material.



WARNING

CLEAN YOUR HANDS WITH SOAP AND FLUSH WITH HOT WATER. DIRTY HANDS WITH CONTAMINATION CAN CAUSE DISEASE AND ILLNESSES TO PERSONS.

- (f) Clean your hands with soap and running hot water.

SUBTASK 35-22-31-840-001

- (9) Do the applicable task(s) for the oxygen mask packing:

- ASU Oxygen Mask Packing, TASK 35-22-31-420-801
- LSU Oxygen Mask Packing, TASK 35-22-31-420-802
- PSU Oxygen Mask Packing, TASK 35-22-31-440-801.

———— **END OF TASK** ————

EFFECTIVITY
SIA ALL

35-22-31

D633AM101-SIA

Page 703
Jan 15/2022



737-7/8/8200/9/10
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 (S813)

(Figure 401)

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 electrical connector [2] from the altitude pressure switch, S813 [1].
 - (c) Remove the two screws [3] that attach the altitude pressure switch, S813 [1] to the J23 junction box.
 - 1) Keep the two screws [3]. These parts are used to install the altitude pressure switch, S813 [1].
 - (d) Remove the altitude pressure switch, S813 [1].
 - (e) If you will not install the altitude pressure switch, S813 [1] immediately, install the cover on the J23 junction box.
 - 1) Attach a streamer to the junction box cover to show that the altitude pressure switch, S813 [1] is not installed.

———— **END OF TASK** ————

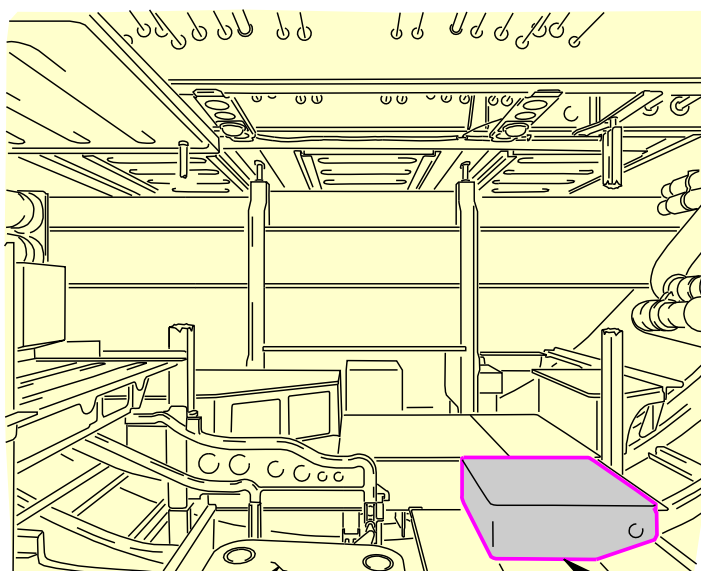
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35-22-41

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Page 401
Sep 15/2021



ELECTRONIC EQUIPMENT
ACCESS DOOR, 117A



J23 JUNCTION BOX



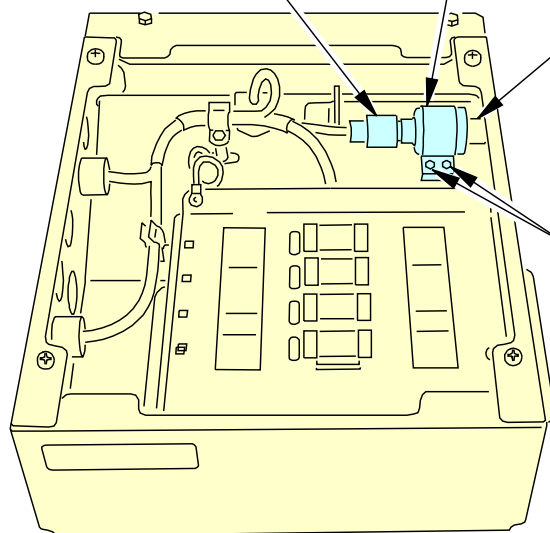
ELECTRICAL AND ELECTRONICS
COMPARTMENT

[1] ALTITUDE
PRESSURE
SWITCH, S813

[2] ELECTRICAL
CONNECTOR

[4] SENSING
PORT

[3] SCREWS



J23 JUNCTION BOX



2414991 S00061536739_V1

Altitude Pressure Switch - Removal/ Installation
Figure 401/35-22-41-990-801

EFFECTIVITY
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35-22-41

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

TASK 35-22-41-400-801

3. **Altitude Pressure Switch - Installation (S813)**

(Figure 401)

A. **References**

Reference	Title
20-50-11-910-801	Standard Torque Values (P/B 201)

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-1914	Test Set - Air Data Model FLMTS (Flight Line Maintenance) Part #: 18910920000 Supplier: 89944 Part #: ADSE 650 Supplier: 3BSK6 Part #: ADTS2000 Supplier: 52892 Part #: ADTS3350ER Supplier: 52892 Part #: ADTS405MKII Supplier: U0427 Part #: ADTS530 Supplier: U0427 Part #: ADTS552F Supplier: U0427 Part #: ADTS553F Supplier: U0427 Part #: ADTS554F Supplier: U0427 Part #: D60340MK Supplier: K1474 Part #: DPS1000 Supplier: 21844 Part #: DPS350 Supplier: 21844 Part #: DPS450 Supplier: 21844 Part #: MODEL 6300 Supplier: 0RDZ5 Part #: MPS34C Supplier: 48RQ2 Part #: MPS43B Supplier: A0197 Part #: MPS45 Supplier: 48RQ2 Part #: MPS49 Supplier: 48RQ2 Part #: TES9463 Supplier: 88277 Opt Part #: 01-0987-00 Supplier: 41364 Opt Part #: 18910480000 Supplier: 89944 Opt Part #: ADTS405F Supplier: U0427 Opt Part #: ADTS505 Supplier: U0427 Opt Part #: D60302 Supplier: K1474 Opt Part #: D60340 Supplier: K1474 Opt Part #: D60383 Supplier: K1474 Opt Part #: DPS500 Supplier: 21844 Opt Part #: MPS31C Supplier: 48RQ2 Opt Part #: MPS43 Supplier: A0197
COM-1931	Pump - Vacuum, Portable, Standard Duty Part #: 2546B-01 Supplier: 0NCC5 Part #: 2546C-01 Supplier: 0NCC5 Part #: 2546C-02 Supplier: 0NCC5 Opt Part #: 2545B-01 Supplier: 0NCC5 Opt Part #: 2545C-02 Supplier: 0NCC5
STD-1318	Hose - Vacuum, 1/4 Inch Inside Diameter (ID) Plastic Tube (Tygon-B44-30PT, Uniflex 650 or Similar)
STD-1319	Connector - 1/4 Inch ID Tee, Plastic, Vacuum Hose (to Attach Vacuum Gauge to Vacuum Hose)

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-41

Page 403
Sep 15/2023



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

(Continued)

Reference	Description
STD-1320	Gauge - Vacuum
STD-1321	Valve - Shutoff
STD-3900	Adapter - Straight, Tube to Hose (meets AS5180D04 specification)

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Altitude pressure switch, S813	35-22-41-01-005	SIA ALL

D. Location Zones

Zone	Area
118	Electrical and Electronics Compartment - Right
212	Flight Compartment - Right

E. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

F. Altitude Pressure Switch Installation

SUBTASK 35-22-41-420-001

- (1) Do these steps to install the altitude pressure switch, S813 [1]:
 - (a) If it is installed, remove the protective cover from the threaded end of the altitude pressure switch, S813 [1].
 - (b) Put the altitude pressure switch, S813 [1] in its position on the J23 junction box.
 - (c) Install the two screws [3] that attach the altitude pressure switch, S813 [1] to the J23 junction box.
 - (d) Tighten the two screws [3] (TASK 20-50-11-910-801).
 - (e) Install the electrical connector [2] on the altitude pressure switch, S813 [1].

G. S813 Altitude Pressure Switch Operational Test

SUBTASK 35-22-41-480-001

- (1) Do these steps to install the test equipment on the altitude pressure switch, S813 [1]:
 - (a) Get access to the J23 junction box.
 - (b) Remove the cover to get access to the altitude pressure switch, S813 [1].
 - (c) Find the altitude pressure switch fitting through the hole in the forward side of the J23 junction box.
 - (d) Connect these components to the altitude pressure switch, S813 [1]:

NOTE: The altitude pressure switch, S813 can be moved from its position a small distance 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

EFFECTIVITY
SIA ALL

35-22-41

D633AM101-SIA

Page 404
May 15/2023



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

7) air data model test set, COM-1914.

SUBTASK 35-22-41-865-002

(2) Make sure that these circuit breakers are open and have 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: 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 35-22-41-865-003

(3) 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 35-22-41-864-001

(4) Slowly decrease the pressure to the altitude pressure switch, S813 [1] until the PASS OXY ON light, on the Oxygen System Module (P5-14), comes on.

SUBTASK 35-22-41-212-001

- (5) 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 that the two MASTER CAUTION lights and OVERHEAD annunciation on the master caution display come on.
 - (b) Push one of the two MASTER CAUTION lights to reset the system.
 - (c) Make sure that all of the annunciations on the master caution displays go out.

SUBTASK 35-22-41-863-001



DO NOT RELEASE THE VACUUM (PRESSURE) TOO QUICKLY AND SUDDENLY. IF YOU DO NOT OBEY, DAMAGE TO THE ALTITUDE PRESSURE SWITCH CAN OCCUR.

(6) Slowly release the vacuum (pressure) to the altitude pressure switch, S813 [1].

SUBTASK 35-22-41-080-001

- (7) Do these steps to remove the altitude simulation test equipment from the altitude pressure switch, S813 [1]:
- (a) Remove the test equipment.
 - (b) If it is necessary, install the two screws [3] that attach the altitude pressure switch, S813 [1] to the J23 junction box.
 - (c) Install the cover to the J23 junction box.

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-41

Page 405
Sep 15/2023



**737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL**

SUBTASK 35-22-41-865-004

- (8) 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 35-22-41-865-005

- (9) 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

H. Put the Airplane Back to Its Usual Condition

SUBTASK 35-22-41-420-002

- (1) Install the cover on the J23 junction box.

SUBTASK 35-22-41-410-001

- (2) Close this access panel:

<u>Number</u>	<u>Name/Location</u>
117A	Electronic Equipment Access Door

———— **END OF TASK** ————

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-41

Page 406
Sep 15/2023



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

OXYGEN CYLINDER (CDS) - MAINTENANCE PRACTICES

1. General

- A. This procedure contains scheduled maintenance task data.
- B. This procedure has these tasks:
 - (1) Passenger oxygen cylinder (CDS) deactivation.
 - (2) Passenger oxygen cylinder (CDS) activation.
- C. All replacement oxygen cylinders are supplied with a safety pin. The safety pin is installed in the actuator assembly of the oxygen cylinder. The cylinder cannot release (start oxygen flow) when the safety pin is correctly installed.
- D. The safety pin is to be installed (oxygen cylinder deactivation) whenever the cylinder or lavatory service unit is removed from the airplane. Once the cylinder or lavatory service unit is installed, the safety pin must be removed (oxygen cylinder activation) prior to returning the aircraft to service.
- E. Each lavatory service unit has an oxygen cylinder. The oxygen cylinder is connected to the oxygen masks. The actuator assembly on the cylinder has a discharge indicator tape and a release lanyard. If the discharge indicator tape is damaged or the release lanyard is removed, oxygen has been released from the cylinder. The flow of oxygen is begun by the downward pull of the oxygen mask by the passenger. The cylinder must be correctly activated to release oxygen.

TASK 35-22-51-040-801

2. Oxygen Cylinder (CDS) Deactivation

(Figure 201)

NOTE: This procedure is a scheduled maintenance task.

A. **References**

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-31-420-802	LSU Oxygen Mask Packing (P/B 201)
35-22-51-000-801	LSU Oxygen Cylinder (CDS) Removal (P/B 401)
35-22-51-400-801	LSU Oxygen Cylinder (CDS) Installation (P/B 401)

B. **Location Zones**

Zone	Area
200	Upper Half of Fuselage

C. **Prepare to Deactivate the Oxygen Cylinder**

SUBTASK 35-22-51-910-001

- (1) Read and obey the (Oxygen System General Maintenance Practices, TASK 35-00-00-910-801) before you do the maintenance.

SUBTASK 35-22-51-010-001

- (2) Open the service unit if to get access to the oxygen cylinder:
 - (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 come out.

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-51

Page 201
Sep 15/2021



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-22-51-210-001

- (3) Do these checks at the actuator assembly on the oxygen cylinder, before you deactivate the oxygen cylinder.
- (a) Make sure that the discharge indicator tape has no damage or holes.
- NOTE: A damaged discharge indicator tape will show that an over pressure condition caused oxygen to flow from the relief port.
- (b) Make sure that the release lanyard is fully engaged in the actuator assembly.
- NOTE: A disengaged release lanyard will show that an oxygen cylinder release caused oxygen to flow from the masks.

SUBTASK 35-22-51-900-001

- (4) If the discharge indicator tape is damaged or the release lanyard is disengaged, replace the applicable oxygen cylinder.
- (a) Do these steps to replace the LSU oxygen cylinder.
- These are the tasks:
- (LSU Oxygen Cylinder (CDS) Removal, TASK 35-22-51-000-801)
- (LSU Oxygen Cylinder (CDS) Installation, TASK 35-22-51-400-801).

D. Deactivate the Oxygen Cylinder

SUBTASK 35-22-51-480-001



MAKE SURE YOUR HANDS, TOOLS, EQUIPMENT, AND CLOTHING USED IN THE WORK AREA DOES NOT HAVE DIRT, OIL, OR GREASE ON THEM. DO NOT LET THIS CONTAMINATION GO INTO THE OXYGEN SYSTEM. IF THIS CONTAMINATION MIXES WITH OXYGEN GAS, THEY CAN IGNITE. INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Install a safety pin and warning flag into the actuator assembly of the oxygen cylinder.
- NOTE: The safety pin prevents the accidental removal of the lanyard. If the lanyard is removed, the oxygen cylinder will release oxygen. If the oxygen is released, it will be necessary to replace the oxygen cylinder.

SUBTASK 35-22-51-410-001

- (2) If no more maintenance is necessary, close the service unit.
- (a) To pack the oxygen masks, do this task: LSU Oxygen Mask Packing, TASK 35-22-31-420-802.
- (b) Close the oxygen box door and push on it to engage the door latch.
- NOTE: The latch will usually make a "click" noise when it fully engages.

SUBTASK 35-22-51-970-001

- (3) Write in the airplane records to show that the oxygen cylinders are deactivated.
- NOTE: Before the oxygen cylinders can be used, they must be activated.

————— **END OF TASK** —————

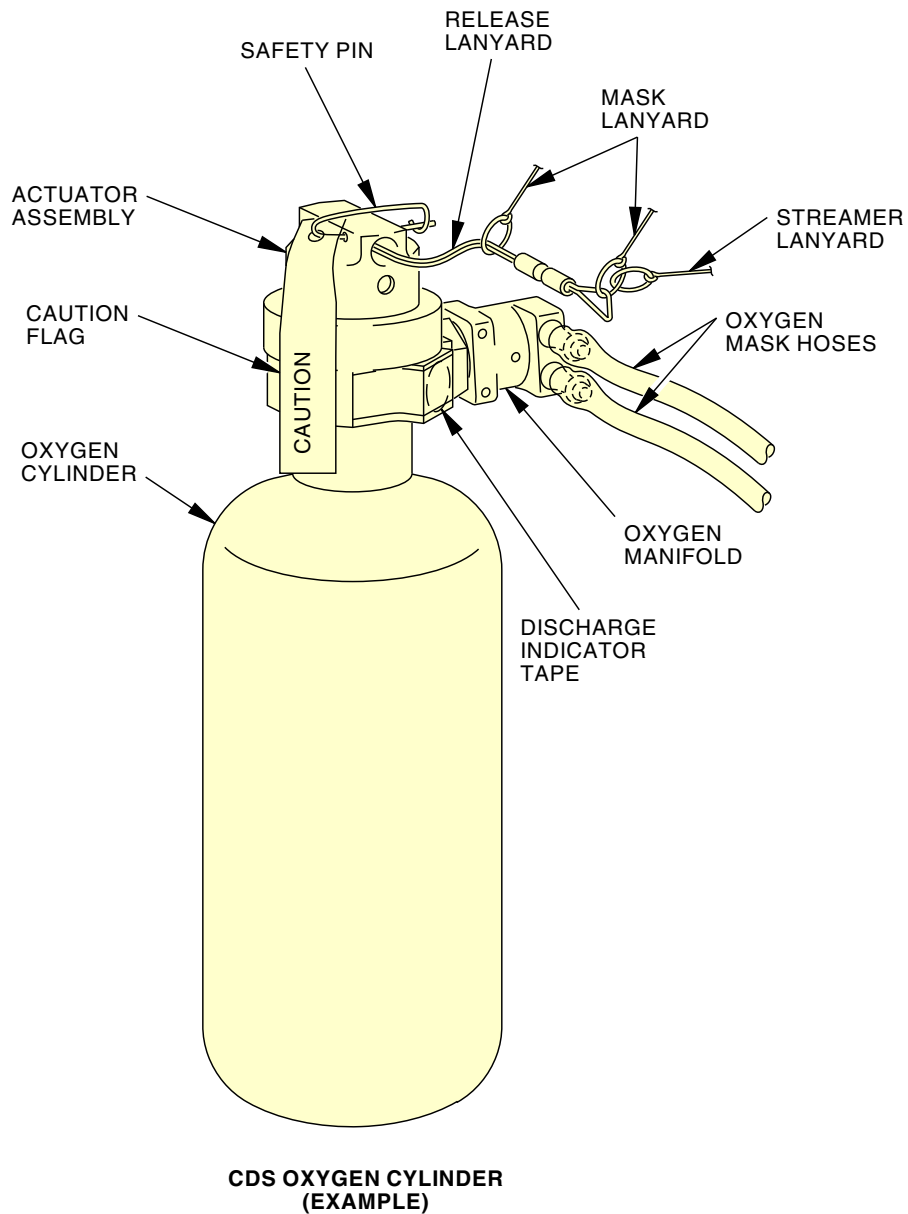
EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-51

Page 202
Sep 15/2021



2414952 S00061536663_V1

Oxygen Cylinder (CDS) Activation/Deactivation
Figure 201/35-22-51-990-801

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-51

Page 203
Sep 15/2021



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

TASK 35-22-51-440-801

3. Oxygen Cylinder (CDS) Activation

(Figure 201)

Figure 35-22-51-990-802

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-31-400-803	LSU Oxygen Mask Installation (P/B 401)
35-22-31-420-802	LSU Oxygen Mask Packing (P/B 201)
35-22-51-000-801	LSU Oxygen Cylinder (CDS) Removal (P/B 401)
35-22-51-400-801	LSU Oxygen Cylinder (CDS) Installation (P/B 401)
35-22-51-990-802	Figure: LSU Oxygen Cylinder (CDS) Installation (P/B 401)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Prepare to Activate the Oxygen Cylinder

SUBTASK 35-22-51-910-002

- (1) Read and obey the (Oxygen System General Maintenance Practices, TASK 35-00-00-910-801) before you do the maintenance.

SUBTASK 35-22-51-410-002

- (2) Open the service unit if to get access to the oxygen cylinder:
 - (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 come out.

SUBTASK 35-22-51-080-001

- (3) Do these checks at the actuator assembly on the oxygen cylinder, before you activate the oxygen cylinder.
 - (a) Make sure that the discharge indicator tape has no damage or holes.
NOTE: A damaged discharge indicator tape will show that an over pressure condition caused oxygen to flow from the relief port.
 - (b) Make sure that the release lanyard assembly is fully engaged in the actuator assembly.
NOTE: A disengaged release lanyard will show that an oxygen cylinder release caused oxygen to flow from the masks.
 - (c) Make sure a safety pin and warning flag is installed the actuator assembly.
NOTE: The safety pin prevents the accidental removal of the release lanyard. If the release lanyard is removed, the oxygen cylinder will release oxygen. If the oxygen is released, it will be necessary to replace the oxygen cylinder.

SUBTASK 35-22-51-210-002

- (4) If the discharge indicator tape is damaged or the release lanyard is disengaged, replace the applicable oxygen cylinder.
 - (a) Do these steps to replace the LSU oxygen cylinder.

EFFECTIVITY
SIA ALL

D633AM101-SIA

35-22-51

Page 204
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

These are the tasks:

(LSU Oxygen Cylinder (CDS) Removal, TASK 35-22-51-000-801)

(LSU Oxygen Cylinder (CDS) Installation, TASK 35-22-51-400-801).

D. Activate the Oxygen Cylinder

SUBTASK 35-22-51-410-003

- (1) To install the oxygen masks, do this task: LSU Oxygen Mask Installation, TASK 35-22-31-400-803.

SUBTASK 35-22-51-080-002



WARNING

REMOVE THE SAFETY PIN FROM THE OXYGEN CYLINDER. THE SAFETY PIN PREVENTS THE RELEASE OF OXYGEN. IF THE SAFETY PIN IS IN THE OXYGEN CYLINDER DURING AN EMERGENCY, THE OXYGEN SYSTEM WILL NOT OPERATE. THIS CAN CAUSE INJURIES TO PASSENGERS.

- (2) Remove the safety pin and warning flag from the actuator assembly of the oxygen cylinder.

NOTE: The safety pin prevents the accidental removal of the release lanyard. If the release lanyard is removed, the oxygen cylinder will release oxygen. If the oxygen is released, it will be necessary to replace the oxygen cylinder.

SUBTASK 35-22-51-210-003



WARNING

MAKE SURE THAT THE RELEASE LANYARD AND MASK LANYARDS CAN MOVE FREELY. THE LANYARDS PULL THE RELEASE PIN WHEN THE MASKS COME DOWN DURING AN EMERGENCY. IF THE ROUTING OF THE RELEASE LANYARD AND MASK LANYARDS IS INCORRECT, THE OXYGEN DISTRIBUTION SYSTEM WILL NOT OPERATE. THIS CAN CAUSE INJURIES TO PASSENGERS.

- (3) Make sure that the release lanyard and mask lanyards can move freely.

SUBTASK 35-22-51-410-004

- (4) If no more maintenance is necessary, close the service unit.
- (a) To pack the oxygen masks, do this task: LSU Oxygen Mask Packing, TASK 35-22-31-420-802.
- (b) Close the oxygen box door and push on it to engage the door latch.

NOTE: The latch will usually make a "click" noise when it fully engages.

SUBTASK 35-22-51-970-002

- (5) Write in the airplane records to show that the oxygen cylinders are activated.

NOTE: Before the oxygen cylinders can be used, they must be activated.

———— **END OF TASK** ————

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-51

Page 205
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

OXYGEN CYLINDER (CDS) - REMOVAL/INSTALLATION

1. **General**

- A. This procedure contains these tasks:
- (1) Lavatory Service Unit (LSU) Oxygen Cylinder (CDS) Removal
 - (2) Lavatory Service Unit (LSU) Oxygen Cylinder (CDS) Installation.
- B. Before you do maintenance on an oxygen system component that contains an oxygen cylinder you must install a safety pin in the oxygen cylinder actuator assembly. The safety pin will permit the oxygen cylinder to be handled and stored. If the safety pin is not installed, oxygen release can occur.
- C. All spare oxygen cylinders are supplied with a safety pin installed in the actuator assembly.
- D. When you do the removal and installation procedures for the LSU, 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 cylinder, you must then do the packing procedure for the oxygen masks.

TASK 35-22-51-000-801

2. **LSU Oxygen Cylinder (CDS) Removal**

(Figure 401)

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
35-22-31-000-803	LSU Oxygen Mask Removal (P/B 401)
35-22-51-040-801	Oxygen Cylinder (CDS) Deactivation (P/B 201)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Prepare the LSU Oxygen Cylinder (CDS) for Removal

SUBTASK 35-22-51-010-002

- (1) Do these steps to open the LSU oxygen box [1]:

- (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 cylinder will release oxygen.

- (f) Put the masks and streamer out of the way during the maintenance.

SUBTASK 35-22-51-210-004

- (2) Do these checks at the actuator assembly [5] on the oxygen cylinder [2], before you deactivate the oxygen cylinder [2].

- (a) Make sure that the discharge indicator tape [7] has no damage or holes.

NOTE: A damaged discharge indicator tape [7] will show that an over pressure condition caused oxygen to flow from the relief port.

EFFECTIVITY
SIA ALL

D633AM101-SIA

35-22-51

Page 401
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

- (b) Make sure that the release lanyard [6] is fully engaged in the actuator assembly [5].

NOTE: A disengaged release lanyard [6] will show that the oxygen cylinder [2] released oxygen to flow from the masks.

SUBTASK 35-22-51-040-001

- (3) If the oxygen cylinder [2] has not released oxygen, do this task: Oxygen Cylinder (CDS) Deactivation, TASK 35-22-51-040-801.

NOTE: The oxygen cylinder [2] deactivation is necessary to prevent the accidental release of oxygen. The release of oxygen will make it necessary to replace the oxygen cylinder [2].

D. Remove the LSU Oxygen Cylinder (CDS)

SUBTASK 35-22-51-020-001

- (1) Do this task: LSU Oxygen Mask Removal, TASK 35-22-31-000-803.

SUBTASK 35-22-51-020-002

- (2) Disconnect the deployment straps [4] from the oxygen box [1].
- (a) Push the strap end through the slot on the door.
- (b) Put the loose end of the strap out of the way during maintenance.

SUBTASK 35-22-51-020-003

- (3) Do these steps to remove the oxygen cylinder [2]:
- (a) Make sure that the safety pin is installed in the actuator assembly [5].
- (b) Cut and remove the cable ties [3] that attach the oxygen cylinder [2] to the oxygen box [1].
- (c) Remove the oxygen cylinder [2] from the oxygen box [1].

———— **END OF TASK** ————

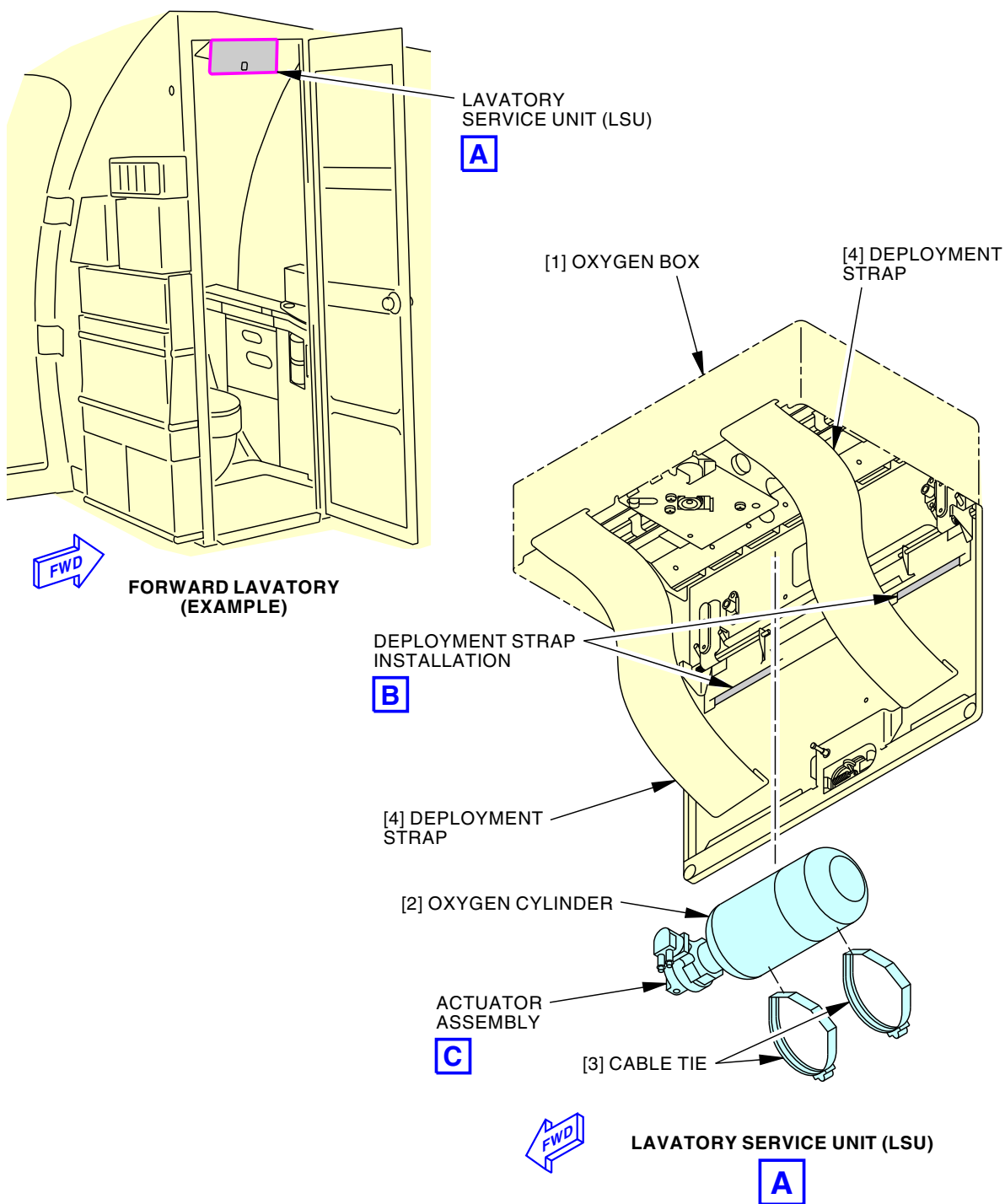
EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-51

Page 402
Sep 15/2021



2414993 S00061536748_V1

LSU Oxygen Cylinder (CDS) Installation
Figure 401/35-22-51-990-802 (Sheet 1 of 2)

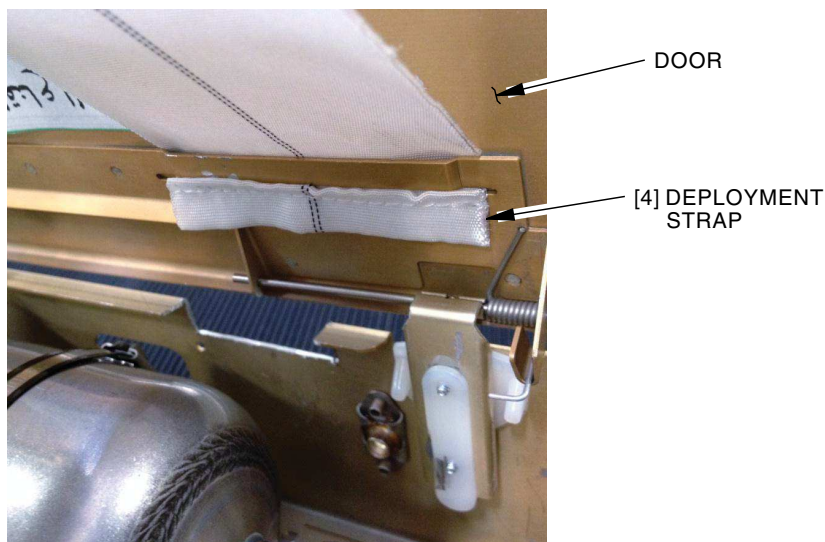
EFFECTIVITY
SIA ALL

35-22-51

D633AM101-SIA

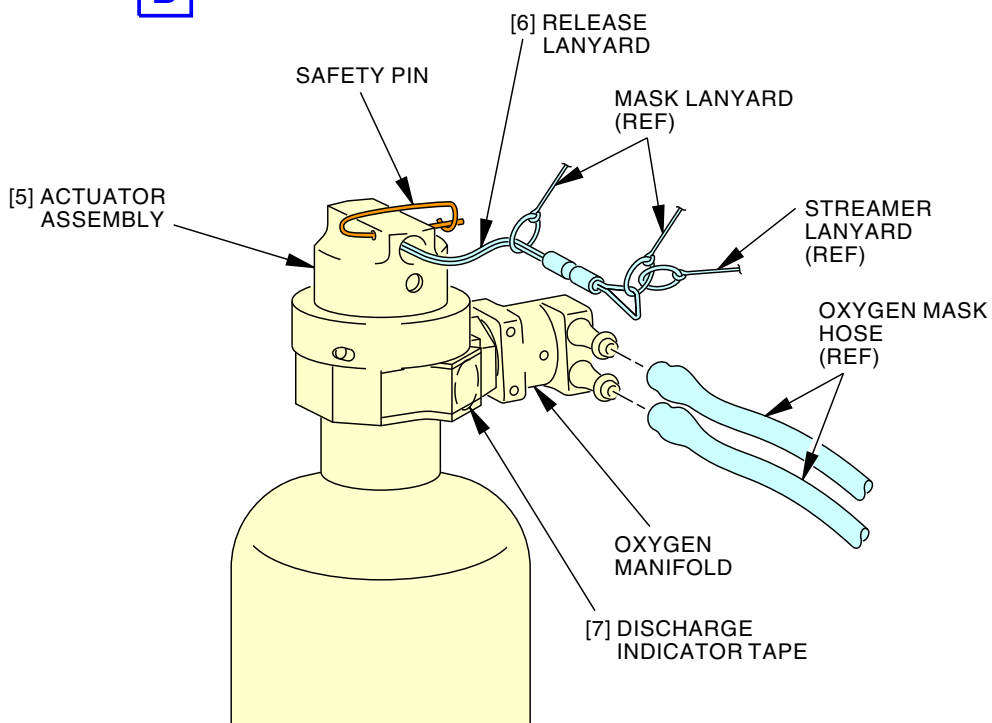
ECCN 9E991 BOEING PROPRIETARY - See title page for details

Page 403
Sep 15/2021



DEPLOYMENT STRAP INSTALLATION

B



ACTUATOR ASSEMBLY

C

2414994 S00061536749_V2

LSU Oxygen Cylinder (CDS) Installation
Figure 401/35-22-51-990-802 (Sheet 2 of 2)

EFFECTIVITY
SIA ALL

35-22-51

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

TASK 35-22-51-400-801

3. **LSU Oxygen Cylinder (CDS) Installation**

(Figure 401)

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
35-22-31-400-803	LSU Oxygen Mask Installation (P/B 401)
35-22-51-440-801	Oxygen Cylinder (CDS) Activation (P/B 201)

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-14752	Installation Tool - Cable Tie (Used with 0.18-inch, 0.25-inch, 0.31-inch wide bands) Part #: GS4MT-E Supplier: 06383 Opt Part #: GS4MT Supplier: 06383

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
2	Oxygen cylinder	35-21-00-01-065	SIA ALL

D. Location Zones

Zone	Area
200	Upper Half of Fuselage

E. Prepare for the LSU Oxygen Cylinder Installation

SUBTASK 35-22-51-210-005

(1) Do these checks on the oxygen cylinder [2] before installation.

(a) Make sure that the discharge indicator tape [7] has no damage or holes.

NOTE: A damaged discharge indicator tape [7] will show that an over pressure condition caused oxygen to flow from the relief port.

(b) Make sure that the safety pin and warning flag is installed in the actuator assembly [5].

NOTE: The safety pin prevents the accidental removal of the release lanyard [6]. If the release lanyard [6] is removed, the oxygen cylinder [2] will release oxygen. If the oxygen is released, it will be necessary to replace the oxygen cylinder [2].

SUBTASK 35-22-51-800-001

(2) If the oxygen cylinder [2] is not serviceable, discard it.

SUBTASK 35-22-51-800-002

(3) If the oxygen cylinder [2] is serviceable, do the subsequent procedure.

F. Install the LSU Oxygen Cylinder

SUBTASK 35-22-51-410-005

(1) Put the oxygen cylinder [2] in its position in the oxygen box [1], with the part number visible.

NOTE: The part number placard and oxygen manifold will be set in the direction of the oxygen box door.

EFFECTIVITY
SIA ALL

35-22-51

D633AM101-SIA

Page 405
May 15/2022



**737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL**

SUBTASK 35-22-51-410-006

- (2) Install the oxygen cylinder [2] to the oxygen box [1].
 - (a) Loosely attach the oxygen cylinder [2] and cable ties [3] to the oxygen box [1].
 - (b) Adjust the cable tie installation tool, COM-14752 to tension setting 8.
 - (c) Tighten the cable ties [3] with the cable tie installation tool, COM-14752.

SUBTASK 35-22-51-420-001

- (3) Install the deployment straps [4].
 - (a) Push the loose end of the strap through the slot on the door.
 - (b) Pull the strap back through the slot until it stops on the strap seam.

SUBTASK 35-22-51-420-002

- (4) Do this task: LSU Oxygen Mask Installation, TASK 35-22-31-400-803.

SUBTASK 35-22-51-440-001

- (5) Do this task: Oxygen Cylinder (CDS) Activation, TASK 35-22-51-440-801.

———— **END OF TASK** ————

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-22-51

Page 406
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL
PORTABLE OXYGEN SYSTEMS - CLEANING

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)	AMS3819 Class 1 Grade A or B Form 1 (Supersede BMS15-5 CLA)
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.

EFFECTIVITY
SIA ALL

35-31-00

D633AM101-SIA

Page 701
Sep 15/2022



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

SUBTASK 35-31-00-140-001

- (2) To remove surface contamination from the portable oxygen cylinder, do this step:
- (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) Connect the oxygen mask hose to the oxygen cylinder outlet.

E. Clean the Portable Oxygen Cylinder Masks

SUBTASK 35-31-00-100-001

- (1) PORTABLE OXYGEN CYLINDERS WITH SCOTT / AVOX PN 28301 DISPOSABLE OXYGEN MASKS:
- (a) Replace the mask if it is used or dirty.
- NOTE: The PN 28301 mask is used one time, then discarded and replaced. Do not try to clean or repair this mask.
- (b) Rub the mask container with a dry cotton wiper, G00034 to remove the surface contamination, if it is necessary.

SUBTASK 35-31-00-910-002

- (2) 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

- (3) 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

- (4) Put on Latex or Nitrile protective gloves, G50140 before handling the mask assembly. Discard the gloves when the cleaning procedure is complete.
- (5) Mix a solution of detergent disinfectant with warm water.
- NOTE: Obey the instructions on the label.

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-31-00

Page 702
Sep 15/2021



**737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL**

SUBTASK 35-31-00-160-004

- (6) Apply the solution to the face piece with a cotton wiper, G00034 or a seal, G02186.

SUBTASK 35-31-00-160-005

- (7) Rinse the face piece in clear, warm water.

SUBTASK 35-31-00-160-006

- (8) Completely dry the face piece with a dry cotton wiper, G00034.

SUBTASK 35-31-00-420-001

- (9) Position the oxygen mask on the portable oxygen cylinder.
(a) Connect the oxygen mask hose to the outlet of the oxygen cylinder.

———— **END OF TASK** ————

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-31-00

Page 703
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

PORTABLE OXYGEN CYLINDER - REMOVAL/INSTALLATION

1. **General**

- A. This procedure has this task:
- (1) Replace Portable Oxygen Cylinder.
- B. 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)

NOTE: This procedure is a scheduled maintenance task.

A. References

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

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Portable oxygen cylinder	35-31-01-08-035	SIA 001-011
		35-31-01-08A-040	SIA 012-014

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Portable Oxygen Cylinder Removal

SUBTASK 35-31-01-910-001

- (1) Read and obey the safety precautions and general instructions for the oxygen system before the maintenance (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. Portable Oxygen Cylinder 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.
 - (a) Remove plastic (bag) from regulator/valve assembly.
 - (b) Connect the mask hose to the outlet port on the regulator if required by national authority.

EFFECTIVITY
SIA ALL

35-31-01

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Page 401
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

- 1) If the oxygen mask is inside a resealable bag, open the bag, connect the oxygen mask hose to the HI outlet port of the pressure regulator, and seal the bag opening with masking tape.
- 2) If the oxygen mask is packed in a sealed plastic bag, make a hole sufficient for the oxygen mask hose to come out, connect the hose to the HI outlet port of the pressure regulator, and seal the hole with masking tape.

SUBTASK 35-31-01-410-002



DO NOT PUT THE OXYGEN MASK HOSE NEAR THE ADJACENT STRUCTURE TO PREVENT RUBS OR KINKS. RUBS OR KINKS CAN CAUSE DAMAGE.

- (3) Make sure that the hose and the oxygen mask is stowed correctly.
 - (a) Fold carrying strap alongside of cylinder.
 - (b) Place disposable mask, packaged in plastic bag, flat against the cylinder.
 - (c) Attach folded straps and ends of the mask bag to the cylinder with Velcro straps on the cylinder.
 - 1) If necessary, apply no more than one thickness (layer) of masking tape across each end of the package for an easy removal.
 - (d) Make sure that the hose is connected to the bottle.
 - 1) Make sure that the portable oxygen cylinder [1] is installed in the bracket so that the gauge is visible and the mask hose is not chaffing on any structure.

SUBTASK 35-31-01-410-003

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

———— **END OF TASK** ————

EFFECTIVITY
SIA ALL

D633AM101-SIA

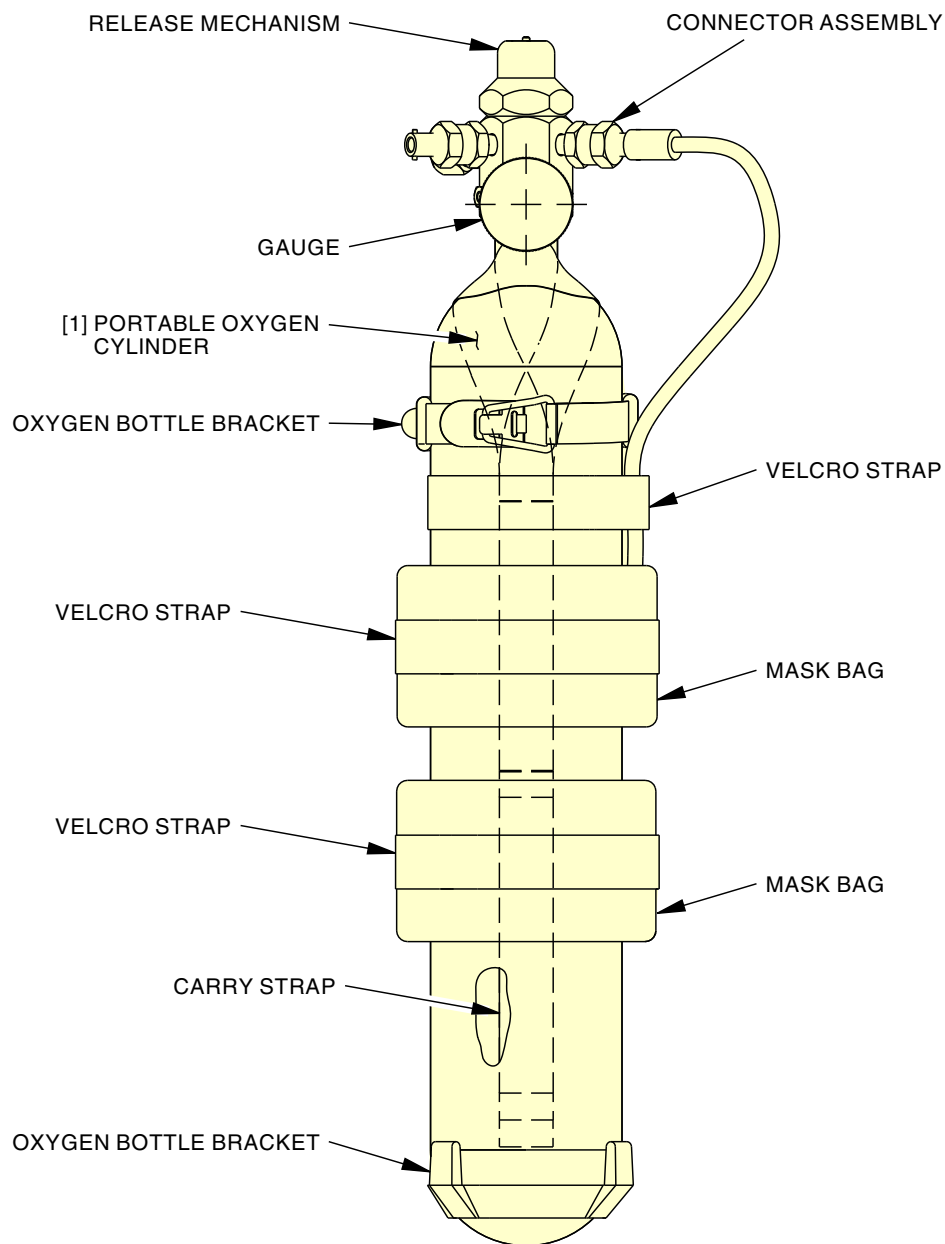
ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-31-01

Page 402
Sep 15/2023



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL



(EXAMPLE)

2563323 S0000612725_V3

Portable Oxygen Equipment Replacement
Figure 401/35-31-01-990-801

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-31-01

Page 403
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

PORTABLE OXYGEN CYLINDER - INSPECTION/CHECK

1. General

- A. This procedure has these tasks:
- (1) Portable Oxygen Cylinder Pressure and Condition Inspection
 - (2) Oxygen Cylinder Leak Check
- B. 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 35-31-01-710-801

2. Portable Oxygen Cylinder Pressure and Condition Inspection

(Figure 601, Figure 602)

NOTE: This procedure is a scheduled maintenance task.

A. **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)

B. **Location Zones**

Zone	Area
200	Upper Half of Fuselage

C. **Prepare for the Inspection**

SUBTASK 35-31-01-910-002

- (1) Read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance (TASK 35-00-00-910-801).

I D. **Portable Oxygen Cylinder Pressure Inspection**

SUBTASK 35-31-01-210-002

- (1) Do a check of each portable oxygen cylinder.

SUBTASK 35-31-01-210-006

- (2) For oxygen cylinders US DOT-3AA-1800, make sure that the portable oxygen cylinder pressure gage is not more than 1800 psi (12,411 kPa) at 70°F (21°C).

NOTE: The Figure 602 is to find equivalent portable oxygen cylinder pressures for temperatures other than 70°F (21°C).

SUBTASK 35-31-01-210-003

- (3) For oxygen cylinders US DOT-3HT-1850, US DOT-E-8162-1850, US DOT-SP-8162-1850, US DOT-SP-10915-1850, and US DOT-SP-10945-1850, make sure that the portable oxygen cylinder pressure gage is not more than 1850 psi (12,755 kPa) at 70°F (21°C).

NOTE: The Figure 602 is to find equivalent portable oxygen cylinder pressures for temperatures other than 70°F (21°C).

SUBTASK 35-31-01-960-001

- (4) Replace the portable oxygen cylinder if the gage pressure is below the minimum set by the airline or regulatory authority.

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-31-01

Page 601
Sep 15/2023



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

E. Portable Oxygen Cylinder Condition Inspection

SUBTASK 35-31-01-210-004

- (1) Make sure that the oxygen cylinders are correctly attached to the wall-mounted brackets or containers, where applicable.

SUBTASK 35-31-01-210-005

- (2) Make sure that the oxygen cylinders are in a satisfactory condition.



CAUTION

DO NOT PUT THE OXYGEN MASK HOSE NEAR THE ADJACENT STRUCTURE TO PREVENT RUBS OR KINKS. RUBS OR KINKS CAN CAUSE DAMAGE.

- (a) Make sure that the oxygen mask hose is attached to the outlet if required by national authority.
- (b) Make sure that the portable oxygen cylinders and the attached oxygen masks are clean.
 - 1) To clean the portable oxygen cylinder or oxygen mask, do this task: Clean the Portable Oxygen System Components, TASK 35-31-00-100-801.
- (c) Make sure that 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
SIA ALL

D633AM101-SIA

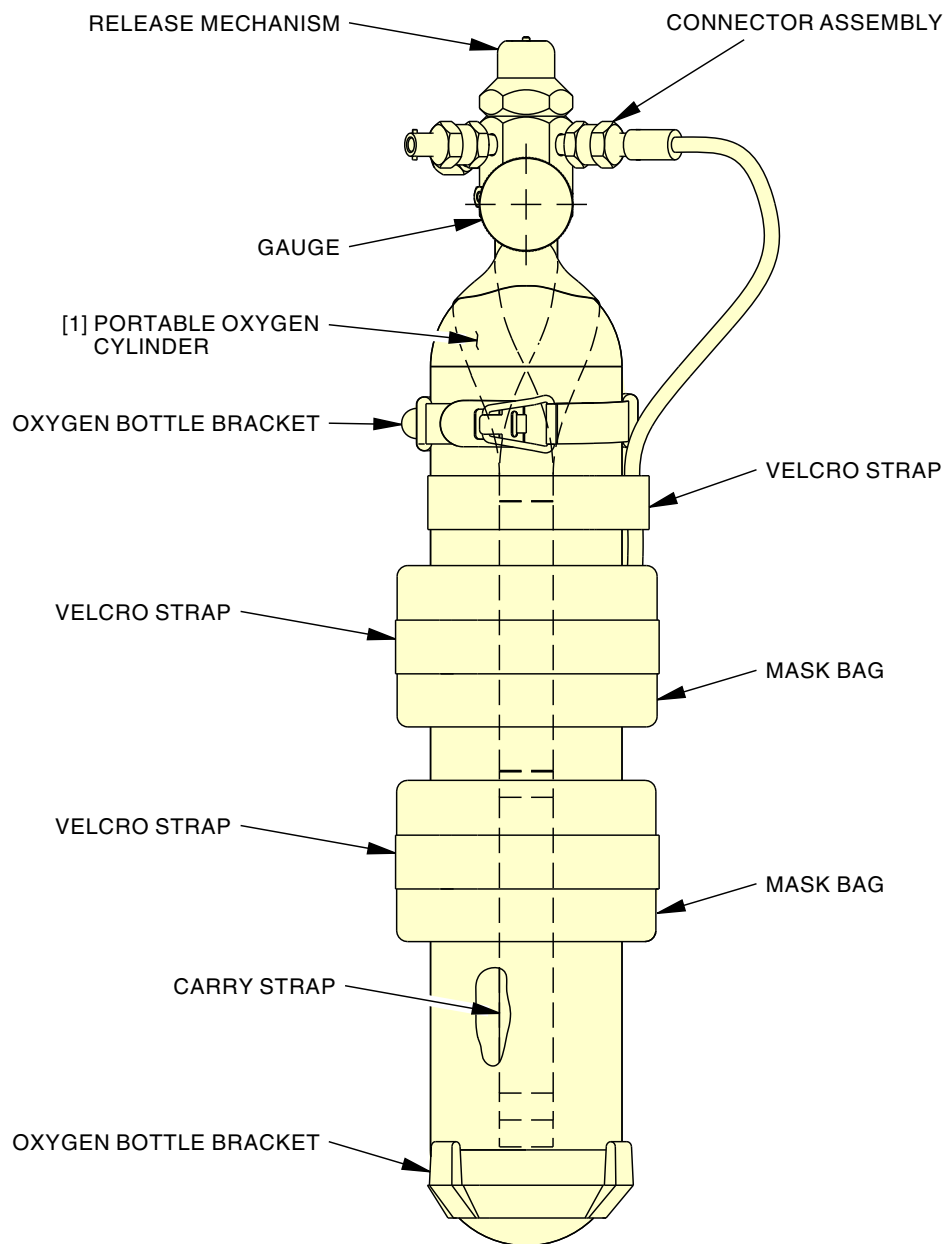
ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-31-01

Page 602
Sep 15/2023



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL



(EXAMPLE)

2563323 S0000612725_V3

Portable Oxygen Inspection
Figure 601/35-31-01-990-802

EFFECTIVITY
SIA ALL

D633AM101-SIA

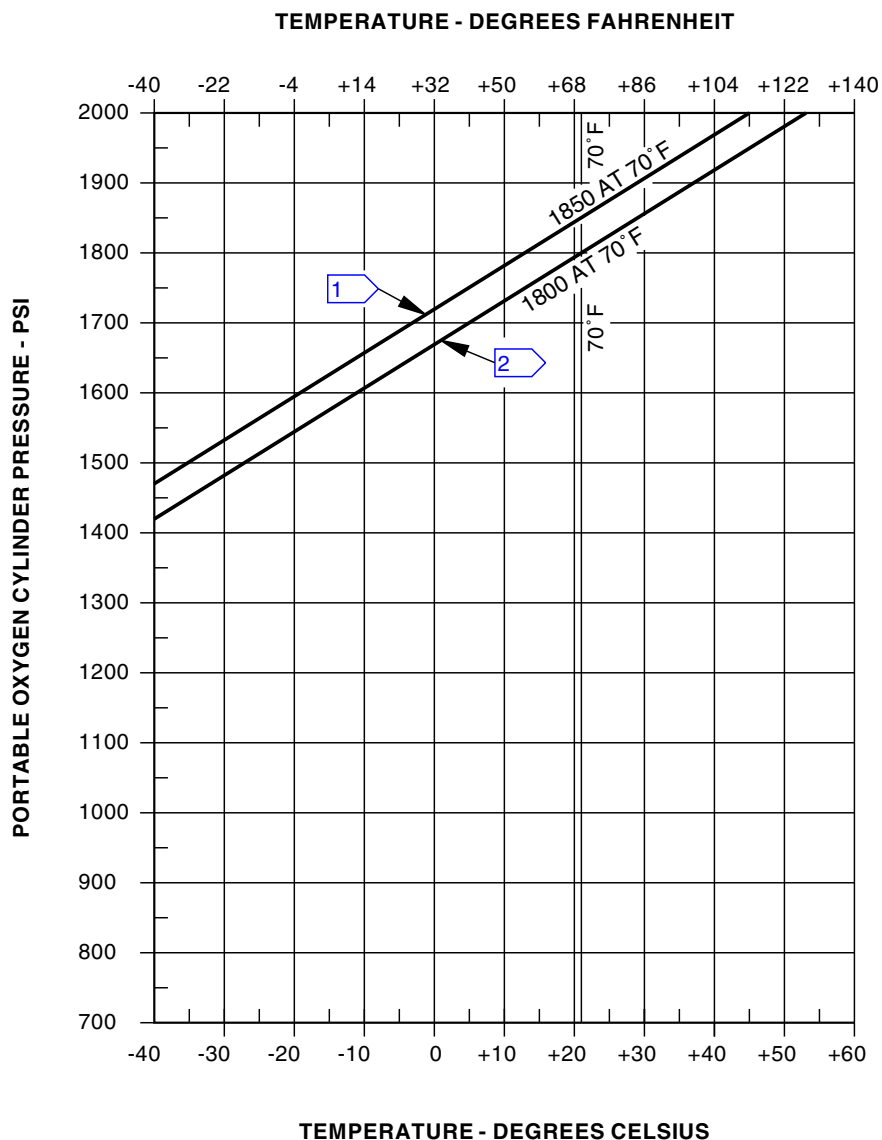
ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-31-01

Page 603
Sep 15/2021



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL



NOTE:

MAXIMUM ALLOWABLE PRESSURE FOR FULLY SERVICED PORTABLE OXYGEN CYLINDER.

- 1 US DOT-3HT-1850 (STEEL), US DOT-E-8162-1850 (COMPOSITE), US DOT-SP-8162-1850 (COMPOSITE), US DOT-SP-10915-1850 (COMPOSITE), AND US DOT-SP-10945-1850 (COMPOSITE)
- 2 US DOT-3AA-1800 (STEEL)

2414996 S00061536756_V3

Portable Oxygen Cylinder-Pressure/Temperature Correction Chart
Figure 602/35-31-01-990-803

EFFECTIVITY
SIA ALL

35-31-01

D633AM101-SIA

Page 604
Jan 15/2023



737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL

TASK 35-31-01-710-802

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)	AMS3819 Class 1 Grade A or B Form 1 (Supersede BMS15-5 CL A)
G50306	Compound - Leak Detection, Oxygen System	MIL-PRF-25567 (BAC5402)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Preparation

SUBTASK 35-31-01-910-003

- (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.

E. Portable Oxygen Cylinder Leak Check

SUBTASK 35-31-01-790-001

- (1) Turn the knob on the ON-OFF valve counterclockwise to open it.

SUBTASK 35-31-01-790-002

- (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 35-31-01-790-003

- (3) Turn the knob on the ON-OFF valve clockwise to close it.

———— **END OF TASK** ————

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-31-01

Page 605
Sep 15/2022



737-7/8/8200/9/10 AIRCRAFT MAINTENANCE MANUAL

PORTABLE PROTECTIVE BREATHING EQUIPMENT BOX - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
- (1) Portable Protective Breathing Equipment Box Removal.
 - (2) Portable Protective Breathing Equipment Box Installation.
- B. The portable Protective Breathing Equipment (PBE) consists of a smoke-hood and protective box. The PBE is installed in various locations in the flight and passenger compartments. Refer to the airplane's Layout of Passenger Arrangements (LOPA) to find the quantity and specific location of the PBE boxes.

TASK 35-31-02-000-801

2. Portable Protective Breathing Equipment Box Removal

A. References

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

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Remove the Portable Protective Breathing Equipment Box

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 35-31-02-010-001

- (2) Go into the flight compartment to get access to the portable protective breathing equipment box.

SUBTASK 35-31-02-010-002

- (3) Go into the passenger compartment to get access to the portable Protective Breathing Equipment (PBE). Refer to the airplane's Layout of Passenger Arrangements (LOPA) 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.

————— **END OF TASK** —————

TASK 35-31-02-400-801

3. Portable Protective Breathing Equipment Box Installation

A. References

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

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

EFFECTIVITY
SIA ALL

35-31-02

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Page 401
Sep 15/2021



**737-7/8/8200/9/10
AIRCRAFT MAINTENANCE MANUAL**

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 35-31-02-400-001

- (2) As necessary, install the fasteners that attach the PBE box mounting bracket in it's location in the flight deck.
 - (a) Install the PBE box in it's mounting bracket.

SUBTASK 35-31-02-400-002

- (3) To install the passenger compartment PBE's, refer to the airplane's Layout of Passenger Arrangements (LOPA) 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 35-31-02-410-001

- (4) Apply a tamper seal as necessary.

———— **END OF TASK** ————

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

35-31-02

Page 402
Sep 15/2021