CHAPTER

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OXYGEN

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10	BLANK	
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903	Feb 15/2015	
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905	Feb 15/2015	
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204	Oct 15/2015	
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35-12-61		
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35-12-71		
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35-12-85		
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OXYGEN - MAINTENANCE PRACTICES	35-00-00		201	AKS ALL
Oxygen System General Maintenance Practices TASK 35-00-00-910-801			201	AKS ALL
Safety Precautions TASK 35-00-00-910-802			201	AKS ALL
Maintenance Practices TASK 35-00-00-910-803			204	AKS ALL
Leak Detection TASK 35-00-00-790-801			206	AKS ALL
Installation of Caps on Open Oxygen Lines TASK 35-00-00-420-801			209	AKS ALL
Oxygen Tubing Removal and Installation TASK 35-00-00-910-804			210	AKS ALL
OXYGEN - SERVICING	35-00-00		301	AKS ALL
Servicing of the Crew Oxygen System TASK 35-00-00-600-801			301	AKS ALL
Servicing of the Passenger Oxygen System TASK 35-00-00-600-802			301	AKS ALL
Portable Oxygen System Servicing TASK 35-00-00-600-803			302	AKS ALL
OXYGEN - CLEANING/PAINTING	35-00-00		701	AKS ALL
Clean the Oxygen System Components TASK 35-00-00-100-801			701	AKS ALL
OXYGEN - DDG MAINTENANCE PROCEDURES	35-00-00		901	AKS ALL
MMEL 35-02 (DDPG) Preparation - Passenger Service Units (PSUs) Inoperative TASK 35-00-00-040-801			901	AKS ALL
MMEL 35-02 (DDPG) Restoration - Passenger Service Units (PSUs) Inoperative TASK 35-00-00-440-801			902	AKS ALL
MMEL 35-02-01 (DDPG) Preparation - Passenger Service Units - Automatic Presentation Inoperative TASK 35-00-00-040-803			902	AKS ALL

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MMEL 35-02-01 (DDPG) Restoration - Passenger Service Units - Automatic Presentation Inoperative TASK 35-00-00-440-811			903	AKS ALL
MMEL 35-02-02 (DDPG) Preparation - Passenger Service Units - Door Latches Inoperative TASK 35-00-00-040-804			903	AKS ALL
MMEL 35-02-02 (DDPG) Restoration - Passenger Service Units - Door Latches Inoperative TASK 35-00-00-440-812			904	AKS ALL
MMEL 35-03-01 (DDPG) Preparation - Flight Deck Oxygen Pressure Indicator Inoperative TASK 35-00-00-440-802			905	AKS ALL
MMEL 35-03-01 (DDPG) Restoration - Flight Deck Oxygen Pressure Indicator Inoperative TASK 35-00-00-440-803			905	AKS ALL
MMEL 35-03-02 (DDPG) Preparation - External Service Panel Crew Oxygen Indicator Inoperative TASK 35-00-00-200-801			906	AKS ALL
MMEL 35-03-02 (DDPG) Restoration - External Service Panel Crew Oxygen Indicator Inoperative TASK 35-00-00-440-809			906	AKS ALL
MMEL 35-03-04 (DDPG) Preparation - Flight Deck Crew/Passenger Oxygen Indicator TASK 35-00-00-200-802			906	AKS ALL
MMEL 35-03-04 (DDPG) Preparation - Flight Deck Crew/Passenger Oxygen Indicator Inoperative TASK 35-00-00-440-810			907	AKS ALL
MMEL 35-04 (DDPG) Preparation - Portable Oxygen Dispensing Units Inoperative TASK 35-00-00-440-804			907	AKS ALL
MMEL 35-04 (DDPG) Restoration - Portable Oxygen Dispensing Units Inoperative TASK 35-00-00-440-805			908	AKS ALL
MMEL 35-05A (DDPG) Preparation - Passenger Oxygen System Inoperative TASK 35-00-00-440-806			908	AKS ALL

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MMEL 35-05A (DDPG) Restoration - Passenger Oxygen System Inoperative TASK 35-00-00-440-807			909	AKS ALL
MMEL 35-07 (DDPG) Preparation - External Service Panel, Oxygen Fill Station - Inoperative TASK 35-00-00-040-802			909	AKS ALL
MMEL 35-07 (DDPG) Restoration - External Service Panel, Oxygen Fill Station - Inoperative TASK 35-00-00-440-808			910	AKS ALL
CREW OXYGEN SYSTEM - MAINTENANCE PRACTICES	35-12-00		201	AKS ALL
Bleed the Crew Oxygen System Prior to System Maintenance or Repair TASK 35-12-00-800-801			201	AKS ALL
Leak Test the Crew Oxygen System After System Maintenance or Repair TASK 35-12-00-800-802			206	AKS ALL
Crew Oxygen System - Deactivation TASK 35-12-00-040-801			208	AKS ALL
Crew Oxygen System - Activation TASK 35-12-00-440-801			212	AKS ALL
CREW OXYGEN SYSTEM - ADJUSTMENT/TEST	35-12-00		501	AKS ALL
Crew Oxygen Stowage Box Test (Mask Stowed in Stowage Box) TASK 35-12-00-700-801			501	AKS ALL
Crew Oxygen Mask-Regulator Test TASK 35-12-00-700-802			508	AKS ALL
Crew Oxygen Pressure Indication Operational Test TASK 35-12-00-710-801			510	AKS ALL
CREW OXYGEN SYSTEM - INSPECTION/CHECK	35-12-00		601	AKS ALL
Crew Oxygen Operational Leak Check TASK 35-12-00-800-803			601	AKS ALL
Crew Oxygen System Pressure Decay Leak Check TASK 35-12-00-710-802			606	AKS ALL

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Crew Oxygen Cylinder Correct Installation and Condition Check TASK 35-12-00-211-801			616	AKS ALL
PRESSURE REDUCING REGULATOR - REMOVAL/INSTALLATION	35-12-11		401	AKS ALL
Regulator/Transducer Assembly Removal TASK 35-12-11-000-801			401	AKS ALL
Regulator/Transducer Assembly Installation TASK 35-12-11-400-801			406	AKS ALL
Regulator/Transducer Assembly Component Removal TASK 35-12-11-000-802			407	AKS ALL
Regulator/Transducer Assembly Component Installation TASK 35-12-11-400-802			410	AKS ALL
PRESSURE TRANSDUCER - REMOVAL/INSTALLATION	35-12-21		401	AKS ALL
Pressure Transducer Removal TASK 35-12-21-000-801			401	AKS ALL
Pressure Transducer Installation TASK 35-12-21-400-801			405	AKS ALL
CREW OXYGEN PRESSURE INDICATOR - REMOVAL/INSTALLATION	35-12-22		401	AKS ALL
Crew Oxygen Pressure Indicator Removal TASK 35-12-22-020-801			401	AKS ALL
Crew Oxygen Pressure Indicator Installation TASK 35-12-22-400-801			403	AKS ALL
DISCHARGE INDICATOR DISC - REMOVAL/INSTALLATION	35-12-51		401	AKS ALL
Discharge Indicator Disk Removal TASK 35-12-51-000-801			401	AKS ALL
Discharge Indicator Disk Installation TASK 35-12-51-400-801			404	AKS ALL

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Remote Fill Line Check Valve Removal TASK 35-12-61-000-801			401	AKS 007-999
Remote Fill Line Check Valve Installation TASK 35-12-61-400-801			405	AKS 007-999
REMOTE FILL PANEL PRESSURE INDICATOR - REMOVAL/INSTALLATION	35-12-71		401	AKS ALL
Remote Fill Panel Pressure Indicator Removal TASK 35-12-71-000-801			401	AKS ALL
Remote Fill Panel Pressure Indicator Installation TASK 35-12-71-400-801			404	AKS ALL
REMOTE FILL PANEL AND FILL VALVE - REMOVAL/INSTALLATION	35-12-81		401	AKS ALL
Remote Fill Panel and Fill Valve Removal TASK 35-12-81-000-801			401	AKS ALL
Remote Fill Panel and Fill Valve Installation TASK 35-12-81-400-801			405	AKS ALL
CREW OXYGEN MASK/STOWAGE BOX - MAINTENANCE PRACTICES	35-12-85		201	AKS ALL
Crew Oxygen Mask Stowage TASK 35-12-85-910-801			201	AKS ALL
CREW OXYGEN MASK/STOWAGE BOX - REMOVAL/INSTALLATION	35-12-85		401	AKS ALL
Oxygen Mask Stowage Box Removal TASK 35-12-85-000-801			401	AKS ALL
Oxygen Mask Stowage Box Installation TASK 35-12-85-400-801			405	AKS ALL
Oxygen Mask/Regulator Removal TASK 35-12-85-000-802			406	AKS ALL
Oxygen Mask/Regulator Installation TASK 35-12-85-400-802			412	AKS ALL
Crew Oxygen Mask Cleaning	35-12-85		701	AKS ALL
Clean the Crew Oxygen Mask TASK 35-12-85-100-801			701	AKS ALL

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Passenger Oxygen System - Manual Deploy Functional Test TASK 35-22-00-700-802			515	AKS ALL
Visual Inspection of the Oxygen Generator TASK 35-22-00-210-801			520	AKS ALL
Visual Inspection of the Oxygen Cylinder (CDS) TASK 35-22-00-210-802			522	AKS 007-999
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Oxygen Generator Deactivation TASK 35-22-11-000-811-001		1	201	AKS ALL
Oxygen Generator Activation TASK 35-22-11-400-811-001		1	208	AKS ALL
OXYGEN GENERATOR - REMOVAL/INSTALLATION	35-22-11	1	401	AKS ALL
PSU Oxygen Generator Removal TASK 35-22-11-000-804-001		1	401	AKS ALL
PSU Oxygen Generator Installation TASK 35-22-11-400-804-001		1	408	AKS ALL
ASU Oxygen Generator Removal TASK 35-22-11-000-805-001		1	409	AKS ALL
ASU Oxygen Generator Installation TASK 35-22-11-400-805-001		1	414	AKS ALL
LSU Oxygen Generator Removal TASK 35-22-11-000-806-001		1	415	AKS 001-006
LSU Oxygen Generator Installation TASK 35-22-11-400-806-001		1	419	AKS 001-006
OXYGEN MASK DOOR LATCH ACTUATOR - REMOVAL/INSTALLATION	35-22-21	1	401	AKS ALL
PSU Door Latch Actuator Removal TASK 35-22-21-000-801-001		1	401	AKS ALL

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ASU Door Latch Actuator Removal TASK 35-22-21-000-802-001		1	407	AKS ALL
ASU Door Latch Actuator Installation TASK 35-22-21-400-802-001		1	411	AKS ALL
LSU Door Latch Actuator Removal TASK 35-22-21-000-803-001		1	412	AKS ALL
LSU Door Latch Actuator Installation TASK 35-22-21-400-803-001		1	416	AKS ALL
PASSENGER OXYGEN MASK - MAINTENANCE PRACTICES	35-22-31	1	201	AKS ALL
PSU Oxygen Mask Packing TASK 35-22-31-440-801		1	201	AKS ALL
ASU and LSU Oxygen Mask Packing TASK 35-22-31-000-804-001		1	212	AKS 001-006
ASU Oxygen Mask Packing TASK 35-22-31-420-801-001		1	226	AKS 007-999
LSU Oxygen Mask Packing TASK 35-22-31-420-802-001		1	240	AKS 007-999
Visual Inspection of the Oxygen Mask TASK 35-22-31-210-801-001		1	250	AKS ALL
PASSENGER OXYGEN MASK - REMOVAL/INSTALLATION	35-22-31	1	401	AKS ALL
PSU Oxygen Mask Removal TASK 35-22-31-000-801-001		1	401	AKS ALL
PSU Oxygen Mask Installation TASK 35-22-31-400-801-001		1	407	AKS ALL
ASU and LSU Oxygen Mask Removal TASK 35-22-31-000-802-001		1	409	AKS 001-006
ASU and LSU Oxygen Mask Installation TASK 35-22-31-400-802-001		1	414	AKS 001-006
ASU Oxygen Mask Removal TASK 35-22-31-000-807-001		1	416	AKS 007-999

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LSU Oxygen Mask Removal TASK 35-22-31-000-808-001		1	423	AKS 007-999
LSU Oxygen Mask Installation TASK 35-22-31-400-805-001		1	429	AKS 007-999
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Clean the Oxygen Mask Assembly TASK 35-22-31-100-801-001		1	701	AKS ALL
ALTITUDE PRESSURE SWITCH - REMOVAL/INSTALLATION	35-22-41		401	AKS ALL
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CHAPTER 35
OXYGEN

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OXYGEN - MAINTENANCE PRACTICES

1. General

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

TASK 35-00-00-910-801

2. Oxygen System General Maintenance Practices

A. General

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

B. Oxygen System General Tasks

SUBTASK 35-00-00-910-004

(1) Refer to these tasks for the applicable data:

(a) Safety Precautions (Safety Precautions, TASK 35-00-00-910-802)

(b) Maintenance Practices (Maintenance Practices, TASK 35-00-00-910-803)

(c) Leak Detection (Leak Detection, TASK 35-00-00-790-801)

(d) Installation of Caps on Open Oxygen Lines and Fittings (Installation of Caps on Open Oxygen Lines, TASK 35-00-00-420-801)

(e) Oxygen Tubing Removal and Installation (Oxygen Tubing Removal and Installation, TASK 35-00-00-910-804).

END OF TASK

TASK 35-00-00-910-802

3. Safety Precautions

A. References

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

B. Consumable Materials

Reference	Description	Specification
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	BMS15-5 Class A
G01306	Gloves - Lint-free	
G50140	Gloves - Protective, Latex or Nitrile	
G50306	Compound - Leak Detection, Oxygen System	MIL-PRF-25567 (BAC5402)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Safety Precautions

SUBTASK 35-00-00-910-005

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

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SUBTASK 35-00-00-860-002

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

SUBTASK 35-00-00-610-004

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

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

(a) Flammable materials

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

(b) Contamination sources

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

(c) Potential ignition sources

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

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

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

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

(g) Use white 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.

SUBTASK 35-00-00-100-002

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

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

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

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SUBTASK 35-00-00-860-003

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

(5) Open the oxygen system valves slowly.

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

SUBTASK 35-00-00-910-006

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

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

SUBTASK 35-00-00-910-007

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

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

SUBTASK 35-00-00-420-001

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

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

SUBTASK 35-00-00-910-008

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

SUBTASK 35-00-00-420-002

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

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

NOTE: Flexible hose assemblies are used in the high and low pressure systems and can be connected to standard tubing connectors. Low pressure hoses operate at pressures of100 psig (689 kPa) and must not be installed in the high pressure system. High pressure can be more than 1850 psig (12,755 kPa).

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SUBTASK 35-00-00-910-009

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

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

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

SUBTASK 35-00-00-860-004

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

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

SUBTASK 35-00-00-790-001

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

SUBTASK 35-00-00-100-001

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

SUBTASK 35-00-00-910-010

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

SUBTASK 35-00-00-420-003

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

END OF TASK

TASK 35-00-00-910-803

4. Maintenance Practices

A. References

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

B. Location Zones

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

C. Oxygen System General Maintenance Practices

SUBTASK 35-00-00-910-011

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

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

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(b) Put on lint free, nylon gloves and clean clothing.

(c) To clean all tools, equipment, and fittings, do this task: Clean the Oxygen System Components, TASK 35-00-00-100-801.

(d) Wipe off dust or other contamination on the outside surface of the polyethylene bags with a clean, oil free cloth before you remove the component.

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

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

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

(f) Do a check of all replacement tubes and components for damage, loose protective covers, incorrect identification or other problems.

(g) Do not eat or smoke in oxygen system maintenance areas.

(h) Check the maintenance area to make sure these conditions exist:

1) the area is clean
2) the area is free from dust or other particles
3) the area is free from parts, solvents, cleaners, and other equipment not related to the oxygen system
4) other planned maintenance is compatible with the oxygen system maintenance.

(i) To remove the pressure (bleed the system) before you disconnect or remove the crew oxygen system components, do this task: Bleed the Crew Oxygen System Prior to System Maintenance or Repair, TASK 35-12-00-800-801.

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

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

SUBTASK 35-00-00-910-012

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

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

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SUBTASK 35-00-00-910-013

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

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

——— END OF TASK ———

TASK 35-00-00-790-801

5. Leak Detection

A. General

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

B. References

Reference	Title
20-10-44-400-801	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)	BMS15-5 Class 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)
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. Procedure - Leak Detection

SUBTASK 35-00-00-910-014

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

SUBTASK 35-00-00-940-001

(2) Complete the maintenance on the oxygen system.

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

SUBTASK 35-00-00-940-002

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

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

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

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

(b) Slowly open the shutoff valve on the oxygen cylinder with your hand.

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

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

SUBTASK 35-00-00-940-003

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

SUBTASK 35-00-00-790-002

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

SUBTASK 35-00-00-790-003

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

SUBTASK 35-00-00-790-004

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

SUBTASK 35-00-00-790-005

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

SUBTASK 35-00-00-790-006

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

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

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

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

(c) If there is a leak at a pipe thread connection, do these steps:

1) If it is necessary you can seal the pipe thread with 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 the Nitto P-412 tape, G50310 does not have an overlap with the internal fitting end.

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

(e) Slowly open the shutoff valve, with your hand, until it is fully open.

(f) Close the shutoff valve one fourth of a turn.

(g) Check for leaks again with the leak detection compound, G50306.

(h) If you cannot stop a leak replace the bad component.

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

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

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

F. Lockwire the Shutoff Valve on the Oxygen Cylinder

SUBTASK 35-00-00-420-004

(1) When the oxygen system is satisfactory, to do these steps to lockwire the shutoff valve in the open position, do this task: 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 THE SHUTOFF VALVE. IF YOU TIGHTEN THE SHUTOFF VALVE TOO MUCH (MORE THAN 25 IN-LB (2.8 N·M)), DAMAGE TO THE VALVE CAN OCCUR.

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

NOTE: The shutoff valve on the 801307-00 steel cylinder is fully open at approximately 6.5 revolutions. The shutoff valve on the B42365-1 composite cylinder is fully open at approximately 4.25 revolutions. The shutoff valve on the 806835-01 composite cylinder is fully open at approximately 6.5 revolutions.

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

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(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. Tools/Equipment

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

B. Consumable Materials

Reference	Description	Specification
G00624	Bag - Plastic, General Purpose	

C. Location Zones

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

D. Installation of Caps on Open Oxygen Lines

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

SUBTASK 35-00-00-910-015

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

SUBTASK 35-00-00-910-016

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

SUBTASK 35-00-00-910-017

(3) Make sure that all clean tube cap, STD-1130 or tube plug, 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.

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SUBTASK 35-00-00-910-018

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

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

SUBTASK 35-00-00-910-019

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

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

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

(6) Make sure that 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 35-00-00-910-022

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

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

SUBTASK 35-00-00-910-023

(8) Install parts to the open oxygen lines in five minutes after the tube cap, STD-1130 or tube plug, STD-1131 is removed.

END OF TASK

TASK 35-00-00-910-804

7. Oxygen Tubing Removal and Installation

A. General

(1) This tasks contains the general maintenance practices for the removal and installation of the oxygen tubing and supply line fittings. The procedures in this task include:

(a) Removal and Installation of Tubing with Flareless and Flared Ends

(b) Removal and Installation of Pipe Threaded Fittings.

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B. References

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

C. Tools/Equipment

Reference	Description
STD-1130	Cap - Protective, 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. Removal and Installation of Tubing and Hoses with Flareless and Flared Ends

SUBTASK 35-00-00-840-001

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

SUBTASK 35-00-00-910-024

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

SUBTASK 35-00-00-020-002

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

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

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

(b) Get access to the tube 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.

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

(f) To prevent contamination:

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

2) Install a tube cap, STD-1130 or a tube plug, STD-1131 in each port (TASK 35-00-00-420-801).

3) Install a tube cap, STD-1130 or a tube plug, STD-1131 in the oxygen line (TASK 35-00-00-420-801).

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

SUBTASK 35-00-00-900-001

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

SUBTASK 35-00-00-900-002

(5) Do these steps before you install the oxygen system tubing 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.

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

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

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

4) Replace the tube if necessary.

(b) To clean the components if it is necessary, do this task: Clean the Oxygen System Components, TASK 35-00-00-100-801.

(c) Do not apply lubrication during the installation.

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

SUBTASK 35-00-00-420-005

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

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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 the tube end touches the bottom of the fitting.

(f) Turn the B-nut by hand until the B-nut almost touches the bottom of the sleeve shoulder.

(g) Do not use the B-nut to align the tube.

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

(h) Hold the union with a wrench and tighten the B-nut within 8 hours.

(i) For B-nuts used with steel tubes (CRES) tighten to the installation torque value in (Table 201)

(j) For B-nuts used with aluminum tubes tighten to the installation torque value in (Table 202)

(k) If you have a leak, you can loosen and tighten the B-nut again.

1) If the flareless tubing assembly is a reducer fitting, use the boss or bulkhead size to get the correct torque and tighten the assembly.

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

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

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

Tube Dash No. Aluminum Tubes	Tube Size Inches	Torque Pound-Inches ±5% (Newton-Meters)
-05	5/16	140 (15.8)

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Table 202/35-00-00-993-803 (Continued)

Tube Dash No. Aluminum Tubes	Tube Size Inches	Torque Pound-Inches ±5% (Newton-Meters)
-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.

(8) Tighten all of the tube clamps.

G. Removal and Installation of Pipe Threaded Fittings

SUBTASK 35-00-00-840-003

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

SUBTASK 35-00-00-020-001

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

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SUBTASK 35-00-00-420-008

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

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

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

SUBTASK 35-00-00-420-009

(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 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, G50310on 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 the tape does not cover threaded fitting end.

SUBTASK 35-00-00-420-010

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

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

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

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

(b) Install the fitting by hand a minimum of two turns until it stops in the thread.

(c) Tighten the fittings with a torque wrench to the minimum torque value in (Table 203) within 8 hours.

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

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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 203/35-00-00-993-802

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

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

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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
12-15-21-600-803-002	Crew Oxygen Cylinder Replacement (P/B 301)

B. Location Zones

Zone	Area
122	Forward Cargo Compartment - Right

C. Procedure

SUBTASK 35-00-00-610-005

(1) There are two ways to service the crew oxygen system.

(a) To service the crew oxygen system by way of the remote fill panel, do this task: Crew Oxygen Cylinder Replacement, TASK 12-15-21-600-803-002.

(b) To service the crew oxygen system by the replacement of crew oxygen cylinder, do this task: Crew Oxygen Cylinder Replacement, TASK 12-15-21-600-803-002.

——— END OF TASK ———

TASK 35-00-00-600-802

3. Servicing of the Passenger Oxygen System

A. References

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

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Procedure

SUBTASK 35-00-00-910-002

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

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SUBTASK 35-00-00-610-002

(2) Do the applicable task to replace the chemical oxygen generator(s):

(a) For the passenger service units do these tasks:

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

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

(b) For the attendant service units do these tasks:

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

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

AKS 001-006

(c) For the lavatory service units do these tasks:

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

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

AKS ALL

——— END OF TASK ———

TASK 35-00-00-600-803

4. Portable Oxygen System Servicing

A. Location Zones

Zone	Area
200	Upper Half of Fuselage

B. Procedure

SUBTASK 35-00-00-010-001

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

SUBTASK 35-00-00-410-002

(2) Close the stowage compartment door, if applicable.

——— END OF TASK ———

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OXYGEN - CLEANING/PAINTING

1. General

A. This procedure contains this task:

(1) Clean the Oxygen System Components.

TASK 35-00-00-100-801

2. Clean the Oxygen System Components

A. General

(1) When you do maintenance on the oxygen system, it is important that the work area is clean and free from contamination. If the work area is not clean, these conditions can occur:

(a) When contamination and an ignition source are near the oxygen, a fire or an explosion can occur.

(b) Contamination can inhibit the usual operation of the oxygen equipment.

(c) Contamination can supply dangerous fumes to the users of the oxygen equipment.

(2) All oxygen system components must be clean and dry when they are installed.

B. References

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

C. Tools/Equipment

Reference	Description
STD-1130	Cap - Protective, 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)	BMS15-5 Class A
G00624	Bag - Plastic, General Purpose	

E. Location Zones

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

F. Procedure

SUBTASK 35-00-00-910-003

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

SUBTASK 35-00-00-140-001

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

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(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: 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 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).

(c) To clean oxygen tubing and fittings, use an approved vapor degrease process, refer to OHM 20-30-03.

(d) Use one of these compressed gases to thoroughly dry the component(s):

1) nitrogen, G00018.

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

2) Clean, dry air 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.

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

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

(5) If the component is not installed on the airplane immediately, do these steps to package the components for storage:

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

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

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

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

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

END OF TASK

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OXYGEN - DDG MAINTENANCE PROCEDURES

1. General

A. This procedure has the maintenance tasks for the Master Minimum Equipment List (MMEL) maintenance requirements as shown in the Dispatch Deviations Procedures Guide (DDPG). These tasks prepare the airplane for flight with systems/components that are inoperative.

B. This procedure also has the tasks that put the airplane back to its usual condition.

C. These are the tasks for the components in the oxygen system:

(1) MMEL 35-02 (DDPG) Preparation - Passenger Service Units Inoperative

(2) MMEL 35-02 (DDPG) Restoration - Passenger Service Units Inoperative

(3) MMEL 35-02-01 (DDPG) Preparation - Passenger Service Units - Automatic Presentation Inoperative

(4) MMEL 35-02-01 (DDPG) Restoration - Passenger Service Units - Automatic Presentation Inoperative

(5) MMEL 35-02-02 (DDPG) Preparation - Passenger Service Units - Door Latches Inoperative

(6) MMEL 35-02-02 (DDPG) Restoration - Passenger Service Units - Door Latches Inoperative

(7) MMEL 35-03 (DDPG) Preparation - Flight Deck Oxygen Indicator Inoperative

(8) MMEL 35-03 (DDPG) Restoration - Flight Deck Oxygen Indicator Inoperative

(9) MMEL 35-04 (DDPG) Preparation - Portable Oxygen Dispensing Units Inoperative

(10) MMEL 35-04 (DDPG) Restoration - Portable Oxygen Dispensing Units Inoperative

(11) MMEL 35-05 (DDPG) Preparation - Passenger Oxygen System Inoperative

(12) MMEL 35-05 (DDPG) Restoration - Passenger Oxygen System Inoperative.

(13) MMEL 35-07 (DDPG) Preparation - External Service Panel, Oxygen Fill Station Inoperative

(14) MMEL 35-07 (DDPG) Restoration - External Service Panel, Oxygen Fill Station Inoperative

TASK 35-00-00-040-801

2. MMEL 35-02 (DDPG) Preparation - Passenger Service Units (PSUs) Inoperative

A. General

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

B. Consumable Materials

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

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Passenger Service Unit Deactivation

SUBTASK 35-00-00-040-002

(1) Do these steps to deactivate an inoperative service unit:

(a) Go to the applicable passenger or lavatory service unit.

(b) Use the masking tape, G02311, or an equivalent tape or rope prescribed by the airline, to make sure passengers do not use seats with an inoperative PSU.

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(c) Lock the door on any lavatories with an inoperative oxygen box.

(d) Attach this placard to the applicable seats or lavatory doors:

1) NOT TO BE OCCUPIED

——— END OF TASK ———

TASK 35-00-00-440-801

3. MMEL 35-02 (DDPG) Restoration - Passenger Service Units (PSUs) Inoperative

A. General

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

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Passenger Service Unit(s) Restoration

SUBTASK 35-00-00-810-004

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

SUBTASK 35-00-00-810-005

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

SUBTASK 35-00-00-440-002

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

——— END OF TASK ———

TASK 35-00-00-040-803

4. MMEL 35-02-01 (DDPG) Preparation - Passenger Service Units - Automatic Presentation Inoperative

A. General

(1) This task gives the maintenance steps which prepare the airplane for flight with the passenger service unit automatic presentation inoperative.

B. References

Reference	Title
35-22-00-700-801	Passenger Oxygen System - Automatic Actuation Functional Test (P/B 501)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Automatic Deploy System Deactivation

SUBTASK 35-00-00-710-001

(1) To do the Manual Deploy task of the Functional Test, do this task:

- (Passenger Oxygen System - Automatic Actuation Functional Test, TASK 35-22-00-700-801)

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

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SUBTASK 35-00-00-480-001

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

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

(a) PASS OXY - AUTO MODE INOP

——— END OF TASK ———

TASK 35-00-00-440-811

5. **MMEL 35-02-01 (DDPG) Restoration - Passenger Service Units - Automatic Presentation Inoperative**

A. **General**

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

B. **Location Zones**

Zone	Area
200	Upper Half of Fuselage

C. **Automatic Deploy System Restoration**

SUBTASK 35-00-00-810-012

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

SUBTASK 35-00-00-080-001

(2) Remove this placard from the PASS OXYGEN switch:

(a) PASS OXY - AUTO MODE INOP

——— END OF TASK ———

TASK 35-00-00-040-804

6. **MMEL 35-02-02 (DDPG) Preparation - Passenger Service Units - Door Latches Inoperative**

A. **General**

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

B. **References**

Reference	Title
35-22-11-000-804-001	PSU Oxygen Generator Removal (P/B 401)
35-22-11-400-804-001	PSU Oxygen Generator Installation (P/B 401)
35-22-31-000-804-001	ASU and LSU Oxygen Mask Packing (P/B 201)
35-22-31-440-801	PSU 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

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E. Door Latch(es) (Unlatched) Deactivation

SUBTASK 35-00-00-720-002

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

(a) Go to the applicable passenger service units (PSU).

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

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

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

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

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

SUBTASK 35-00-00-840-004

(2) Do these steps to prepare the applicable PSU(s):

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

PSU Oxygen Mask Packing, TASK 35-22-31-440-801 or ASU and LSU Oxygen Mask Packing, TASK 35-22-31-000-804-001

(b) Close the oxygen mask door on the PSU, as applicable.

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

(d) Close the PSU.

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

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

1) Fold a piece of tape to make a handle approximately 4 in. (102 mm) long (non-adhesive side out).

2) Put the tape handle over the tape that is used to keep the PSU oxygen mask door closed.

3) Make sure the tape handle hangs down approximately 4 in. (102 mm).

——— END OF TASK ———

TASK 35-00-00-440-812

7. MMEL 35-02-02 (DDPG) Restoration - Passenger Service Units - Door Latches Inoperative

A. General

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

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Door Latch(es) Restoration

SUBTASK 35-00-00-020-004

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

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SUBTASK 35-00-00-810-013

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

——— END OF TASK ———

TASK 35-00-00-440-802

8. MMEL 35-03-01 (DDPG) Preparation - Flight Deck Oxygen Pressure Indicator Inoperative

A. General

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

B. Location Zones

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

C. Oxygen Pressure Indicator Deactivation

SUBTASK 35-00-00-040-003

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

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

SUBTASK 35-00-00-860-001

(2) Do these steps to check the crew oxygen system pressure at the crew oxygen cylinder, before each Take Off:

(a) Go into the forward cargo compartment.

(b) Remove the bottom cargo compartment panel from the front of the cargo compartment.

(c) Look at the pressure gage on the crew oxygen cylinder.

(d) Make sure that the oxygen supply is above the minimum required for flight.

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

(e) Make sure that the shutoff valve on the crew oxygen cylinder is open.

(f) Install the bottom cargo compartment panel.

——— END OF TASK ———

TASK 35-00-00-440-803

9. MMEL 35-03-01 (DDPG) Restoration - Flight Deck Oxygen Pressure Indicator Inoperative

A. General

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

B. Location Zones

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

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C. Oxygen Pressure Indicator Restoration

SUBTASK 35-00-00-810-006

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

SUBTASK 35-00-00-440-003

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

——— END OF TASK ———

TASK 35-00-00-200-801

10. MMEL 35-03-02 (DDPG) Preparation - External Service Panel Crew Oxygen Indicator Inoperative

A. General

(1) This task gives the maintenance steps which prepare the airplane for flight with the external service panel crew oxygen indicator inoperative.

B. Location Zones

Zone	Area
100	Lower Half of Fuselage

C. Prepare for Deactivation

SUBTASK 35-00-00-200-003

(1) Examine the crew oxygen cylinder pressure indicator before each takeoff.

(a) Make sure that the oxygen pressure is above the minimum required for flight.

1) See Boeing Flight Planning and Performance Manual, Flight Planning Section, for minimum dispatch pressure for the crew oxygen cylinder.

——— END OF TASK ———

TASK 35-00-00-440-809

11. MMEL 35-03-02 (DDPG) Restoration - External Service Panel Crew Oxygen Indicator Inoperative

A. Oxygen Pressure Indicator Restoration

SUBTASK 35-00-00-440-005

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

SUBTASK 35-00-00-440-007

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

——— END OF TASK ———

TASK 35-00-00-200-802

12. MMEL 35-03-04 (DDPG) Preparation - Flight Deck Crew/Passenger Oxygen Indicator

A. General

(1) This task gives the maintenance steps which prepare the airplane for flight with the Flight Deck Crew/ Passenger Oxygen Pressure Indicator inoperative.

B. Location Zones

Zone	Area
100	Lower Half of Fuselage

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C. Flight Deck Crew/Passenger Oxygen Indicator Deactivation

SUBTASK 35-00-00-200-004

(1) Examine the oxygen cylinder pressure before each takeoff.

(a) Make sure that the oxygen pressure is above minimum required for flight. See Boeing Flight Planning and Performance Manual, Flight Planning Section, for minimum dispatch bottle pressure.

——— END OF TASK ———

TASK 35-00-00-440-810

13. MMEL 35-03-04 (DDPG) Preparation - Flight Deck Crew/Passenger Oxygen Indicator Inoperative

A. General

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

B. Location Zones

Zone	Area
100	Lower Half of Fuselage
200	Upper Half of Fuselage

C. Oxygen Pressure Indicator Restoration

SUBTASK 35-00-00-440-008

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

SUBTASK 35-00-00-440-010

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

——— END OF TASK ———

TASK 35-00-00-440-804

14. MMEL 35-04 (DDPG) Preparation - Portable Oxygen Dispensing Units Inoperative

A. General

(1) This task is for the operation of the airplane with portable oxygen cylinders that servicing is necessary. The units that do not require service, must be more than those required by the regulating authority.

B. References

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

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Portable Oxygen Deactivation

SUBTASK 35-00-00-040-004

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

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SUBTASK 35-00-00-960-003

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

SUBTASK 35-00-00-960-004

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

SUBTASK 35-00-00-610-003

(4) Stow the oxygen cylinders that have low pressure, or do not operate correctly, where they will not be used.

(a) Remove or cover the portable oxygen cylinder location placards for the out of service units.

SUBTASK 35-00-00-200-005

(5) Make sure that the required distribution of the units is maintained in the airplane.

——— END OF TASK ———

TASK 35-00-00-440-805

15. MMEL 35-04 (DDPG) Restoration - Portable Oxygen Dispensing Units Inoperative

A. General

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

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Portable Oxygen Restoration

SUBTASK 35-00-00-810-007

(1) Fully service the portable oxygen cylinders.

SUBTASK 35-00-00-810-008

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

SUBTASK 35-00-00-610-006

(3) Restore the portable oxygen cylinder locator placard.

——— END OF TASK ———

TASK 35-00-00-440-806

16. MMEL 35-05A (DDPG) Preparation - Passenger Oxygen System Inoperative

A. General

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

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

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C. Passenger Oxygen System Deactivation

SUBTASK 35-00-00-960-005

(1) Make sure there are sufficient portable oxygen units for at least 10% of the passengers.

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

——— END OF TASK ———

TASK 35-00-00-440-807

17. MMEL 35-05A (DDPG) Restoration - Passenger Oxygen System Inoperative

A. General

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

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Passenger Oxygen System Restoration

SUBTASK 35-00-00-810-009

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

SUBTASK 35-00-00-810-010

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

——— END OF TASK ———

TASK 35-00-00-040-802

18. MMEL 35-07 (DDPG) Preparation - External Service Panel, Oxygen Fill Station - Inoperative

A. General

(1) This procedure has a maintenance task for the Master Minimum Equipment List (MMEL). The maintenance requirements are shown in the Dispatch Deviations Guide (DDG). These tasks prepare the airplane for flight with some systems/components that do not operate.

B. Location Zones

Zone	Area
118	Electrical and Electronics Compartment - Right
122	Forward Cargo Compartment - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

C. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

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D. Prepare for Deactivation

SUBTASK 35-00-00-010-002

(1) Open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 35-00-00-210-004

(2) Visually make sure that the high pressure tubing has no open connections.

SUBTASK 35-00-00-210-005

(3) Make sure that the crew system pressure shown on the flight compartment or cylinder gage(s) is the minimum dispatch pressure.

NOTE: The minimum dispatch pressure is shown in the FPPM.

SUBTASK 35-00-00-210-006

(4) Make sure that the passenger oxygen pressure on the flight compartment or cylinder pressure gage(s) is the dispatch pressure.

NOTE: The minimum dispatch pressure is shown in the FPPM.

SUBTASK 35-00-00-210-007

(5) Monitor the crew and passenger oxygen pressure for 15 minutes to make sure that there are no leaks.

SUBTASK 35-00-00-410-003

(6) Close this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

END OF TASK

TASK 35-00-00-440-808

19. MMEL 35-07 (DDPG) Restoration - External Service Panel, Oxygen Fill Station - Inoperative

A. General

(1) This procedure has a maintenance task for the Master Minimum Equipment List (MMEL) maintenance requirements as shown in the Dispatch Deviations Guide (DDG).

B. Location Zones

Zone	Area
118	Electrical and Electronics Compartment - Right
122	Forward Cargo Compartment - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

C. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

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D. External Service Panel, Oxygen Fill Station Activation

SUBTASK 35-00-00-010-003

(1) Open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 35-00-00-200-001

(2) Do the applicable chapter 35 FIM procedure to troubleshoot the External Service Panel, Oxygen Fill Station.

SUBTASK 35-00-00-410-004

(3) Close this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

——— END OF TASK ———

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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)

B. Location Zones

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

C. Prepare to Bleed the Crew Oxygen System

SUBTASK 35-12-00-910-004

(1) 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 35-12-00-860-008

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

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

(a) Remove the bottom center cargo compartment panel from the front of the forward cargo compartment.

(b) Remove the lockwire from the shutoff valve.

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

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

D. Bleed the Crew Oxygen System

SUBTASK 35-12-00-870-001

(1) Do these steps to bleed the crew oxygen system (Figure 202):

(a) Go to the captain's oxygen stowage box (View A).

(b) Push and hold the TEST/RESET LEVER of the mask stowage box to the TEST/RESET position.

(c) Make sure the DILUTION CONTROL LEVER on the mask/regulator assembly is set to the 100% position (View B).

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(d) Push and hold the EMERGENCY OXYGEN SELECTOR KNOB on the mask regulator.

(e) Release the TEST/RESET LEVER and the EMERGENCY OXYGEN SELECTOR KNOB when the flow blinker on the stowage box changes from a yellow cross to all black.

SUBTASK 35-12-00-860-009

(2) Do the applicable maintenance.

——— END OF TASK ———

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FORWARD CARGO COMPARTMENT

A

G19510 S0006577407_V2

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

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CREW OXYGEN CYLINDER
(EXAMPLE)

B

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

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FLIGHT COMPARTMENT

CAPTAIN'S MASK STOWAGE BOX

A

MASK REGULATOR

B

G19538 S0006577412_V3

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

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TASK 35-12-00-800-802

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

(Figure 201)

A. References

Reference	Title
20-10-44-400-801	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 Operational Test (P/B 501)

B. Consumable Materials

Reference	Description	Specification
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	BMS15-5 Class 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 35-12-00-910-005

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

SUBTASK 35-12-00-940-001

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

(a) Go to the crew oxygen system cylinder (View A).

(b) Make sure all of the tubes and components are tightened to the correct torque.

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

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

(c) Slowly open the shutoff valve on the oxygen cylinder with your hand until it is fully open.

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 this Procedure: Crew Oxygen Cylinder - Leak Detection.

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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 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 compound, G50306, immediately.

SUBTASK 35-12-00-790-005

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

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

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

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

(c) Tighten the connection with a leak to the correct torque value.

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

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

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

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 compound, G50306.

(f) If you cannot stop a leak, replace the bad component.

SUBTASK 35-12-00-420-002

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

F. Lockwire the Shutoff Valve on the Crew Oxygen Cylinder

SUBTASK 35-12-00-420-003

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

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(a) Make sure the shutoff valve is open.

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

SUBTASK 35-12-00-710-032

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

SUBTASK 35-12-00-410-002

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

SUBTASK 35-12-00-410-003

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

END OF TASK

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 35-12-00-870-003

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

SUBTASK 35-12-00-860-029

(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.

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SUBTASK 35-12-00-860-030

(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 35-12-00-860-031

(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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FORWARD CARGO COMPARTMENT

A

G19510 S0006577407_V2

Crew Oxygen Cylinder
Figure 203/35-12-00-990-817 (Sheet 1 of 2)

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CREW OXYGEN CYLINDER
(EXAMPLE)

B

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Crew Oxygen Cylinder
Figure 203/35-12-00-990-817 (Sheet 2 of 2)

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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 35-12-00-860-032

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

SUBTASK 35-12-00-860-033

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND

——— END OF TASK ———

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CREW OXYGEN SYSTEM - ADJUSTMENT/TEST

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

TASK 35-12-00-700-801

2. Crew Oxygen Stowage Box Test (Mask Stowed in Stowage Box)
(Figure 501 or Figure 502)

A. General

(1) This test checks the mask-regulator stowed in the mask stowage box (in-situ).

(2) The mask-regulators must be stowed in the mask stowage boxes to do this test.

(3) This test uses oxygen supplied from the crew oxygen cylinder.

(4) To help you hear the flow of oxygen in the mask, set up the interphone communication speakers, do this task: Flight Interphone System - Operational Test, TASK 23-51-00-710-801.

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

B. References

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

C. Location Zones

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

D. Prepare for the Test

SUBTASK 35-12-00-910-001

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

SUBTASK 35-12-00-860-001

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

SUBTASK 35-12-00-840-001

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

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

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SUBTASK 35-12-00-840-002

(4) 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

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

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

SUBTASK 35-12-00-710-001

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

SUBTASK 35-12-00-710-002

(2) Push and hold the TEST/RESET LEVER, on the mask stowage box to the TEST/RESET position.

NOTE: Continue to hold the TEST/RESET LEVER in the TEST/RESET position.

SUBTASK 35-12-00-710-003

(3) Look at the FLOW INDICATOR, on the oxygen stowage box.

(a) Make sure the FLOW INDICATOR momentarily shows a yellow flow indication.

(b) Make sure the FLOW INDICATOR goes black to show a no-flow condition.

SUBTASK 35-12-00-710-004

(4) Momentarily push the EMERGENCY OXYGEN SELECTOR KNOB.

SUBTASK 35-12-00-710-005

(5) Look at the FLOW INDICATOR, on the oxygen stowage box.

(a) Make sure the FLOW INDICATOR momentarily shows a yellow flow indication.

(b) Make sure the FLOW INDICATOR goes black to show a no-flow condition.

SUBTASK 35-12-00-710-006

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

SUBTASK 35-12-00-710-007

(7) Release the TEST/RESET LEVER.

SUBTASK 35-12-00-710-008

(8) Make sure the TEST/RESET LEVER goes to the closed position.

SUBTASK 35-12-00-710-009

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

NOTE: This step will open the shutoff valve.

SUBTASK 35-12-00-710-010

(10) Push the DILUTION CONTROL LEVER to the 100% position.

SUBTASK 35-12-00-710-011

(11) Momentarily push the EMERGENCY OXYGEN SELECTOR KNOB.

SUBTASK 35-12-00-710-012

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

SUBTASK 35-12-00-710-013

(13) Push the DILUTION CONTROL LEVER to the N (normal) position.

SUBTASK 35-12-00-710-014

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

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(a) Make sure that the “OXY ON” flag, on the left door of the stowage box, shows.

SUBTASK 35-12-00-710-015

(15) Push the TEST/RESET LEVER to the TEST/RESET position, 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.

SUBTASK 35-12-00-710-016

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

F. Put the Airplane Back to the Usual Condition

SUBTASK 35-12-00-860-002

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

——— END OF TASK ———

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FLIGHT COMPARTMENT

MASK STOWAGE BOX

A

W15558 S0006577436_V4

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

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W15713 S0006577439_V5

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

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W15745 S0006577442_V4

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

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W15759 S0006577446_V5

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

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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)
24-22-00-860-811	Supply Electrical Power (P/B 201)
35-00-00-910-802	Safety Precautions (P/B 201)
35-12-85-910-801	Crew Oxygen Mask Stowage (P/B 201)

C. Location Zones

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

D. Prepare for the Test

SUBTASK 35-12-00-910-002

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

SUBTASK 35-12-00-860-003

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

SUBTASK 35-12-00-860-004

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND

F/O Electrical System Panel, P6-2

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

SUBTASK 35-12-00-840-004

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

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

SUBTASK 35-12-00-840-005

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

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SUBTASK 35-12-00-840-006

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

E. Mask-Regulator Operational Test (EROS MF10/MF20 and NASAL MASKS)

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).

SUBTASK 35-12-00-710-020

(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 35-12-00-710-021

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

NOTE: The HARNESS will inflate until it holds your head.

SUBTASK 35-12-00-710-022

(5) Breathe through the mask-regulator unit with the DILUTION CONTROL LEVER set to N (normal), and when it is at the 100% position.

SUBTASK 35-12-00-710-023

(6) Make sure that the oxygen FLOW INDICATOR shows flow.

NOTE: Stowage cups do not have a FLOW INDICATOR.

SUBTASK 35-12-00-710-024

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

SUBTASK 35-12-00-710-025

(8) With the DILUTION CONTROL LEVER set to the 100% position, turn the EMERGENCY OXYGEN SELECTOR KNOB to the EMERGENCY position.

SUBTASK 35-12-00-710-026

(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 35-12-00-710-027

(10) After three breaths, turn the EMERGENCY OXYGEN SELECTOR KNOB to the normal position.

SUBTASK 35-12-00-710-030

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

NOTE: Some masks do not have communication equipment installed.

SUBTASK 35-12-00-410-001

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

END OF TASK

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TASK 35-12-00-710-801

4. Crew Oxygen Pressure Indication Operational Test

NOTE: This procedure is a scheduled maintenance task.

A. General

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

B. References

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

C. Location Zones

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

D. Prepare for the Procedure

SUBTASK 35-12-00-910-003

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

SUBTASK 35-12-00-860-005

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

E. Pressure Indication Test

SUBTASK 35-12-00-860-006

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND

SUBTASK 35-12-00-860-007

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

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

SUBTASK 35-12-00-710-031

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

(a) Compare the values of these pressure gages:

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

2) Crew oxygen cylinder pressure gage (forward cargo bay).

(b) Make sure the pressure difference is less than 100 psig (689 kPa).

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F. Put the Airplane Back to the Usual Condition

SUBTASK 35-12-00-420-001

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

——— END OF TASK ———

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FORWARD CARGO COMPARTMENT

A

G19852 S0006577460_V3

Crew Oxygen System Pressure Indication
Figure 503/35-12-00-990-816 (Sheet 1 of 3)

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CREW OXYGEN CYLINDER (EXAMPLE)

B

1993915 S0000388183_V2

Crew Oxygen System Pressure Indication
Figure 503/35-12-00-990-816 (Sheet 2 of 3)

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FLIGHT COMPARTMENT

CREW OXYGEN PRESSURE INDICATOR

B

U62443 S0000207539_V2

Crew Oxygen System Pressure Indication
Figure 503/35-12-00-990-816 (Sheet 3 of 3)

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CREW OXYGEN SYSTEM - INSPECTION/CHECK

1. General

A. This procedure contains these task:

(1) Crew Oxygen Operational Leak Check

(2) Crew Oxygen System Leak Check.

B. To do the Crew Oxygen Cylinder Dispatch Pressure Check, do this task: Crew Oxygen Cylinder Dispatch Pressure Check, TASK 12-15-21-210-801-002.

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 Operational Test (P/B 501)
35-12-00-800-801	Bleed the Crew Oxygen System Prior to System Maintenance or Repair (P/B 201)

B. Consumable Materials

Reference	Description	Specification
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	BMS15-5 Class 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.

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.

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(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 between150 psig (1034 kPa) and 1900 psig (13,100 kPa).

E. Crew Oxygen System Leak Detection

SUBTASK 35-12-00-790-006

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

SUBTASK 35-12-00-790-007

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

SUBTASK 35-12-00-790-008

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

SUBTASK 35-12-00-790-009

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

SUBTASK 35-12-00-790-010

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

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

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

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

(c) Tighten the connection with a leak to the correct torque value.

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

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

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

(e) Close the shutoff valve one fourth of a turn.

(f) Check for leaks again with the leak detection compound, G50306.

(g) If you cannot stop a leak, replace the bad component.

NOTE: If the leak is not more than 5 cc/hour, it is not necessary to replace the component.

SUBTASK 35-12-00-420-004

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

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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 fourth 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 35-12-00-710-033

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

SUBTASK 35-12-00-410-005

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

END OF TASK

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FORWARD CARGO COMPARTMENT

A

G19852 S0006577460_V3

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

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CREW OXYGEN CYLINDER (EXAMPLE)

B

G87312 S0006577462_V3

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

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TASK 35-12-00-710-802

3. Crew Oxygen System Pressure Decay Leak Check

(Figure 602, Figure 603, Figure 604)

A. General

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

(2) The crew oxygen system is a low pressure system. When you do this check, make sure that the pressure is not more than100 psig (689 kPa). If you use more than 100 psig (689 kPa) of pressure, you can cause damage to the oxygen system components.

(3) The crew oxygen system uses valves to stop the flow of oxygen from the oxygen system tubing to the crew mask regulators. These shutoff valves have a permitted leak rate. To do a pressure check of the crew oxygen system, it is necessary to put a cap on the tubing before the crew oxygen station(s).

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 #: C35001-6 Supplier: 81205 Opt Part #: C35001-1 Supplier: 81205

D. Consumable Materials

Reference	Description	Specification
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	BMS15-5 Class 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)

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E. Location Zones

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

F. Prepare for the Leak Check

SUBTASK 35-12-00-910-007

(1) 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 35-12-00-840-008

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

SUBTASK 35-12-00-840-009

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

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

(Figure 602)

SUBTASK 35-12-00-480-001

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

(1) Make sure 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 35-12-00-860-010

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

SUBTASK 35-12-00-210-003

(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.

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

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

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

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

H. Pressure Check Equipment Set-up - Flight Compartment

(Figure 603)

SUBTASK 35-12-00-480-003

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

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

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

(b) Install a cap on the open connector fitting at the bottom of each stowage box location (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) 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 35-12-00-710-034

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

(1) Open the shutoff valve on the oxygen source, and slowly pressurize the system to a pressure of 80 ±5 psig (552 ±35 kPa).

SUBTASK 35-12-00-710-035

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

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SUBTASK 35-12-00-710-036

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

SUBTASK 35-12-00-210-001

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

SUBTASK 35-12-00-970-001

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

SUBTASK 35-12-00-360-002

(6) If the leakage is less than7.5 psig (51.7 kPa), the system is satisfactory.

SUBTASK 35-12-00-360-001

(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

(Figure 603)

SUBTASK 35-12-00-080-002

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

SUBTASK 35-12-00-410-008

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

SUBTASK 35-12-00-410-009

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

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

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

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

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

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

K. Pressure Check Equipment Removal - Crew Oxygen Cylinder

(Figure 602)

SUBTASK 35-12-00-020-001

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

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

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

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

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

(c) Remove the pressure 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 35-12-00-840-010

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

——— END OF TASK ———

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FORWARD CARGO COMPARTMENT

A

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

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CREW OXYGEN CYLINDER (EXAMPLE)

B

G87282 S0006577467_V2

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

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Crew Oxygen Pressure Leak Check (Equipment Setup in the Flight Compartment)
Figure 603/35-12-00-990-806

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FLIGHT COMPARTMENT

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

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W17400 S0006577487_V2

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

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TASK 35-12-00-211-801

4. Crew Oxygen Cylinder Correct Installation and Condition Check

Figure 601

A. References

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

B. Location Zones

Zone	Area
122	Forward Cargo Compartment - Right

C. Procedure

SUBTASK 35-12-00-910-008

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

SUBTASK 35-12-00-010-003

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

SUBTASK 35-12-00-211-003

(3) Do a check of these components to make sure they are installed correctly.

(a) Make sure the pressure transducer is installed tightly (a torque of 125 in-lb (14 N·m) to 150 in-lb (17 N·m)) on the coupling assembly.

(b) Make sure the pressure regulator is tightly installed.

(c) Make sure the oxygen supply hose and overboard drain hose are installed correctly

(d) Make sure the coupling assembly is installed correctly.

(e) Make sure the oxygen cylinder is correctly installed to the support brackets and straps.

I (f) Make sure the remote fill line is installed correctly.

SUBTASK 35-12-00-211-004

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

SUBTASK 35-12-00-211-002

(5) Do a check of the crew oxygen cylinder to make sure it is in satisfactory condition:

(a) Do this task to check the crew oxygen cylinder for leaks: Crew Oxygen Operational Leak Check, TASK 35-12-00-800-803.

(b) Make sure that the oxygen cylinder hydrostatic test date complies with the current regulations.

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

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

(c) Do a check of the crew oxygen cylinder for these conditions:

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1) Make sure 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:

   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 the crew oxygen cylinder is clean.

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

SUBTASK 35-12-00-410-011

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

——— END OF TASK ———

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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 (Oxygen System General Maintenance Practices, TASK 35-00-00-910-801).

SUBTASK 35-12-11-870-001

(2) Bleed the Crew Oxygen System (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 remote fill line from the regulator/ transducer assembly [1].

(b) Disconnect the electrical connector from the transducer [2].

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

(d) Loosen the nut on the coupling assembly [9] that attaches the crew oxygen cylinder to the regulator/transducer assembly [1].

(e) Remove the regulator/transducer assembly [1].

SUBTASK 35-12-11-480-001

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

(7) If the installation of the assembly will not occur in 5 minutes, put a cap on the open oxygen line (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 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

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FORWARD CARGO COMPARTMENT

A

F67212 S0006577497_V2

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

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

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REGULATOR/TRANSDUCER ASSEMBLY

C

G87454 S0006577503_V2

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

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TASK 35-12-11-400-801

3. Regulator/Transducer Assembly Installation

(Figure 401)

A. General

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

B. References

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

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Transducer assembly	35-12-52-01A-045	AKS 001-006

D. Location Zones

Zone	Area
122	Forward Cargo Compartment - Right

E. Procedure

SUBTASK 35-12-11-910-002

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

SUBTASK 35-12-11-410-001

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

SUBTASK 35-12-11-420-001

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

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

NOTE: Oxygen clean fittings come from a sealed 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] to 375 ±25 in-lb (42 ±3 N·m).

(d) Install the crew oxygen supply line to the elbow [3] on the regulator/transducer assembly [1].

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(e) Install the remote fill line to the regulator/transducer assembly [1].

(f) Connect the electrical connector to the transducer [2].

F. 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.

G. Do a Check of the Electrical Connection

SUBTASK 35-12-11-280-001

(1) Supply electrical power (Supply Electrical Power, TASK 24-22-00-860-811).

SUBTASK 35-12-11-860-004

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND

SUBTASK 35-12-11-210-001

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

H. Put the Airplane Back to its Usual Condition

SUBTASK 35-12-11-860-005

(1) If it is not necessary, remove electrical power (Remove Electrical Power, TASK 24-22-00-860-812).

END OF TASK

TASK 35-12-11-000-802

4. Regulator/Transducer Assembly Component Removal

(Figure 401)

A. General

(1) Do this task if you need to remove one or more of these components from the regulator/transducer assembly:

(a) Transducer

(b) Coupling assembly

(c) Regulator assembly

(d) Tubing components.

B. References

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)

C. Location Zones

Zone	Area
122	Forward Cargo Compartment - Right

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D. Prepare to Remove the Components

SUBTASK 35-12-11-910-003

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

SUBTASK 35-12-11-020-002

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

E. Remove the Transducer from the Regulator/Transducer Assembly

SUBTASK 35-12-11-020-005

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

(1) Do these steps to remove the transducer [2] from the regulator/transducer assembly [1]:

(a) Use a wrench to hold the coupling assembly [9].

(b) Use a wrench to hold the square boss on the transducer [2].

(c) Disconnect the transducer [2].

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

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

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

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

SUBTASK 35-12-11-020-003

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

(1) Do these steps to remove the coupling assembly [9] from the regulator/transducer assembly [1]:

(a) Remove the transducer [2] from the coupling assembly [9].

(b) Remove the coupling assembly [9] from the union [8] on the inlet port of the regulator assembly [7].

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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.

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

SUBTASK 35-12-11-000-001

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

(1) Do these steps to remove the regulator assembly [7] from the regulator/transducer assembly [1]:

(a) Remove the coupling assembly [9] from the union [8] on the regulator assembly [7].

(b) Remove the union [8] and packing [6] from the regulator assembly [7].

1) Discard the packing [6].

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

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

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

H. Remove the Tubing Components on the Regulator Assembly

SUBTASK 35-12-11-020-006

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

(a) Discard the packing [6].

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SUBTASK 35-12-11-020-007

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

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

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

——— END OF TASK ———

TASK 35-12-11-400-802

5. Regulator/Transducer Assembly Component Installation

(Figure 401)

A. General

(1) Do this task to install one or more of these components to form the regulator/transducer assembly:

(a) Tubing components

(b) Regulator assembly

(c) Transducer

(d) Coupling assembly.

B. References

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

C. Tools/Equipment

Reference	Description
STD-1130	Cap - Protective, 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	AKS ALL
5	Ring	35-12-11-01-035	AKS ALL
6	Packing	35-12-11-01-020	AKS ALL
7	Regulator assembly	35-12-11-01-040	AKS ALL

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F. Location Zones

Zone	Area
122	Forward Cargo Compartment - Right

G. Prepare to Install the Components

SUBTASK 35-12-11-910-004

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

H. Install the Tubing Components on the Regulator Assembly

SUBTASK 35-12-11-420-002

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

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

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

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

(a) Remove the protective tube cap, STD-1130, if necessary.

(b) Apply a thin layer of grease, D00173 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

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

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

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

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

(a) Remove the protective tube cap, STD-1130, if necessary.

(b) Install the nut [4] on the elbow [3].

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(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 tube cap, STD-1130, if necessary.

(b) Loosely connect the coupling assembly [9] and the regulator assembly [7] at the union [8] on the inlet port.

(c) Make sure the coupling assembly [9] and regulator assembly [7] are aligned correctly for the installation.

(d) Tighten the connection between the nut on the coupling assembly [9] and the union [8] on the regulator assembly [7] to 170 in-lb (19 N·m) - 200 in-lb (23 N·m).

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J. Install the Transducer to the Coupling Assembly

SUBTASK 35-12-11-420-006

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

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

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

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

(a) Remove the protective tube cap, STD-1130, if necessary.

(b) Loosely install the transducer [2].

(c) Make sure the transducer [2] and coupling assembly [9] are aligned correctly for the installation.

(d) Tighten the nut that attaches the transducer [2] to the coupling assembly [9] to 170 in-lb (19 N·m) - 200 in-lb (23 N·m).

K. 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

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PRESSURE TRANSDUCER - REMOVAL/INSTALLATION

1. **General**

A. This procedure contains these tasks:

(1) Pressure Transducer Removal

(2) Pressure Transducer Installation.

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

TASK 35-12-21-000-801

2. **Pressure Transducer Removal**

(Figure 401)

A. General

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

B. References

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

C. Location Zones

Zone	Area
122	Forward Cargo Compartment - Right

D. Remove the Pressure Transducer

SUBTASK 35-12-21-910-001

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

SUBTASK 35-12-21-870-001

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

SUBTASK 35-12-21-860-001

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND

SUBTASK 35-12-21-010-001

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

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SUBTASK 35-12-21-860-002

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

SUBTASK 35-12-21-020-001

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

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

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

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

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

(d) Remove the pressure transducer [2].

SUBTASK 35-12-21-480-001

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

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

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

END OF TASK

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FORWARD CARGO COMPARTMENT

A

F72259 S0006577511_V2

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

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CREW OXYGEN CYLINDER (EXAMPLE)

B

G87532 S0006577514_V2

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

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TASK 35-12-21-400-801

3. Pressure Transducer Installation

(Figure 401)

A. General

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

B. References

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

C. Tools/Equipment

Reference	Description
STD-1130	Cap - Protective, 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	35-12-52-01A-045	AKS 001-006

E. Location Zones

Zone	Area
122	Forward Cargo Compartment - Right

F. Procedure

SUBTASK 35-12-21-910-002

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

SUBTASK 35-12-21-410-001

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

SUBTASK 35-12-21-420-001

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

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

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

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

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

(b) Use a wrench to hold the coupling nut [6] in its position.

(c) Put the pressure transducer [2] in its position on the coupling nut [6].

(d) Tighten the nut that attaches the transducer [2]to the coupling assembly [6] to 170 in-lb (19 N·m) - 200 in-lb (23 N·m).

(e) Connect the electrical connector [1] to the pressure transducer [2].

SUBTASK 35-12-21-840-001

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

G. Do a Check of the Electrical Connection

SUBTASK 35-12-21-280-001

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

SUBTASK 35-12-21-860-003

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND

SUBTASK 35-12-21-210-001

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

H. Put the Airplane Back to its Usual Condition

SUBTASK 35-12-21-860-004

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

END OF TASK

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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 from the P5-14 overhead panel:

(a) 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

(b) Loosen the 4 quarter-turn fasteners that hold the P5-14 overhead panel.

(c) Carefully pull the P5-14 overhead panel away from the rest of the P5 panel until there is sufficient access to the part of the crew oxygen pressure indicator behind the face of the P5-14 panel.

(d) Disconnect the electrical connector from the crew oxygen pressure indicator.

(e) Loosen the release screw to loosen the clamp that holds the crew oxygen pressure indicator in its position.

(f) Remove the crew oxygen pressure indicator for the P5–14 panel.

END OF TASK

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

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TASK 35-12-22-400-801

3. Crew Oxygen Pressure Indicator Installation

A. References

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

B. Location Zones

Zone	Area
212	Flight Compartment - Right

C. Procedure

SUBTASK 35-12-22-400-001

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

(a) Put the crew oxygen pressure indicator in its position in the P5-14 panel.

(b) Tighten the release screw to tighten the clamp that holds the crew oxygen pressure indicator in its position.

(c) Connect the electrical connector to the crew oxygen pressure indicator.

(d) Carefully put the P5-14 overhead panel into its position in 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 Operational Test, TASK 35-12-00-710-801

——— END OF TASK ———

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DISCHARGE INDICATOR DISC - REMOVAL/INSTALLATION

1. General

A. This procedure has these tasks:

(1) Overboard Discharge Disc Removal

(2) Overboard Discharge Disc Installation.

B. The discharge indicator is a green plastic disc installed in the overboard discharge port. If the frangible disc in the crew oxygen cylinder breaks, oxygen from the crew oxygen bottle will enter the overboard vent line. When the pressure is more than 500 psi (3450 kPa), the indicator disc will break. The purpose of the indicator disc is to give a visual indication which shows loss of oxygen through the overboard vent. If the indicator disc has blown out, do this procedure to replace the indicator disc.

C. The overboard discharge port is found on the bottom right side of the fuselage skin, aft of the electronic equipment access door.

D. You can remove the indicator disc from the outside of the airplane.

TASK 35-12-51-000-801

2. Discharge Indicator Disk Removal

(Figure 401)

A. References

Reference	Title
12-15-21-600-803-002	Crew Oxygen Cylinder Replacement (P/B 301)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)

B. Location Zones

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

C. Procedure

SUBTASK 35-12-51-910-001

(1) 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 35-12-51-200-001

(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 12-15-21-600-803-002.

SUBTASK 35-12-51-010-001

(4) Find the overboard discharge indicator [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.

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(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 indicator [1].

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

——— END OF TASK ———

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OVERBOARD DISCHARGE PORT

A

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

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TASK 35-12-51-400-801

3. Discharge Indicator Disk Installation
(Figure 401)

A. References

Reference	Title
12-15-21-600-803-002	Crew Oxygen Cylinder Replacement (P/B 301)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)

B. Expendables/Parts

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

C. Location Zones

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

D. Procedure

SUBTASK 35-12-51-910-002

(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 35-12-51-410-002

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

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

SUBTASK 35-12-51-420-001

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

SUBTASK 35-12-51-420-002

(4) Install the snap ring [2] on the green indicator 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) If it was removed, install the crew oxygen cylinder. Do this task: (Crew Oxygen Cylinder Replacement, TASK 12-15-21-600-803-002).

END OF TASK

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REMOTE FILL LINE CHECK VALVE - REMOVAL/INSTALLATION

1. General

A. This procedure contains these tasks:

(1) Remote Fill Line Check Valve Removal

(2) Remote Fill Line Check Valve Installation.

TASK 35-12-61-000-801

2. Remote Fill Line Check Valve Removal

Figure 401

A. General

(1) This task includes the steps to remove the remote fill line check valve.

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. Prepare for the Remote Fill Line Check Valve Removal

SUBTASK 35-12-61-910-001

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

SUBTASK 35-12-61-870-001

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

SUBTASK 35-12-61-010-001

(3) Get access to the crew oxygen cylinder.

SUBTASK 35-12-61-860-001

(4) Make sure that the shutoff valve [2] is closed.

E. Remove the Remote Fill Line Check Valve

SUBTASK 35-12-61-020-001

(1) Loosen the coupling assembly [4] nut and disconnect the check valve [1] from the coupling assembly [4].

SUBTASK 35-12-61-020-002

(2) Disconnect the check valve [1] from the remote fill line [3] elbow and remove the check valve [1].

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SUBTASK 35-12-61-480-001

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.

(3) If the installation of the assembly will not occur in 5 minutes, put a cap on the open oxygen line (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 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

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FORWARD CARGO COMPARTMENT

A

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Remote Fill Line Check Valve Installation
Figure 401/35-12-61-990-801 (Sheet 1 of 2)

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CREW OXYGEN CYLINDER (EXAMPLE)

B

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Remote Fill Line Check Valve Installation
Figure 401/35-12-61-990-801 (Sheet 2 of 2)

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TASK 35-12-61-400-801

3. Remote Fill Line Check Valve Installation

Figure 401

A. General

(1) This task includes the steps to install the remote fill line check valve.

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. Location Zones

Zone	Area
122	Forward Cargo Compartment - Right

D. Prepare for the Remote Fill Line Check Valve Installation

SUBTASK 35-12-61-910-002

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

SUBTASK 35-12-61-010-002

(2) Get access to the crew oxygen cylinder.

E. Remote Fill Line Check Valve Installation

SUBTASK 35-12-61-080-001

(1) If installed, remove the caps from the remote fill line [3] and from the coupling assembly [4].

SUBTASK 35-12-61-420-001

(2) Install the check valve [1] on the remote fill line [3] elbow.

(a) Make sure the arrow on the check valve points away from the elbow.

(b) Tighten the check valve [1] to 185 ±15 in-lb (21 ±2 N·m).

SUBTASK 35-12-61-420-002

(3) Connect the open end of check valve to the coupling assembly.

(a) Tighten the coupling assembly [4] nut 185 ±15 in-lb (21 ±2 N·m).

F. Remote Fill Line Check Valve Installation Test

SUBTASK 35-12-61-790-001

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

——— END OF TASK ———

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REMOTE FILL PANEL PRESSURE INDICATOR - REMOVAL/INSTALLATION

1. General

A. This procedure has these tasks:

(1) Remote Fill Panel Pressure Indicator Removal

(2) Remote Fill Panel Pressure Indicator Installation.

B. The pressure indicator is installed within the remote fill panel housing. The remote fill panel housing is located in the electrical and electronics compartment.

TASK 35-12-71-000-801

2. Remote Fill Panel Pressure Indicator Removal

(Figure 401)

A. Location Zones

Zone	Area
118	Electrical and Electronics Compartment - Right

B. Procedure

SUBTASK 35-12-71-860-001

(1) Open this circuit breaker and install safety tag:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND

SUBTASK 35-12-71-010-001

(2) Go to the electrical and electronics compartment to get to the remote fill panel.

SUBTASK 35-12-71-010-002

(3) Open the door to the remote fill panel [1].

SUBTASK 35-12-71-860-002

(4) Remove the screws [4] and washers [5] which attach the pressure indicator [3] to the remote fill panel [1].

SUBTASK 35-12-71-100-001

(5) Carefully pull the pressure indicator [3] out of the cutout to get to the electrical connector [2] on the back.

SUBTASK 35-12-71-020-001

(6) Disconnect the electrical connector [2].

SUBTASK 35-12-71-020-002

(7) Remove the pressure indicator [3].

SUBTASK 35-12-71-020-003

(8) Remove the gasket [6].

(a) Examine the gasket [6] for cracks or damages.

END OF TASK

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Remote Fill Panel Pressure Indicator Installation
Figure 401/35-12-71-990-801 (Sheet 1 of 2)

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REMOTE FILL PANEL

B

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Remote Fill Panel Pressure Indicator Installation
Figure 401/35-12-71-990-801 (Sheet 2 of 2)

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TASK 35-12-71-400-801

3. Remote Fill Panel Pressure Indicator Installation

(Figure 401)

A. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
3	Indicator	35-12-71-02-110	AKS ALL
6	Gasket	35-12-71-02-120	AKS ALL

B. Location Zones

Zone	Area
118	Electrical and Electronics Compartment - Right

C. Procedure

SUBTASK 35-12-71-420-001

(1) Put the gasket [6] over the electrical connector [2].

SUBTASK 35-12-71-910-001

(2) Connect the electrical connector [2] to the back of the pressure indicator [3].

SUBTASK 35-12-71-410-001

(3) Put the pressure indicator [3] into the cutout at the remote fill panel [1].

NOTE: Make sure the gasket [6] aligns correctly with the pressure indicator [3].

SUBTASK 35-12-71-420-002

(4) Install the screws [4] and washers [5].

SUBTASK 35-12-71-420-003

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND

SUBTASK 35-12-71-210-001

(6) Make sure that the pressure indicator [3] shows pressure.

(a) Make sure the pressure shown on the pressure indicator [3], the crew oxygen cylinder, and the flight compartment are all approximately equal.

SUBTASK 35-12-71-420-004

(7) Close the door to the remote fill panel [1].

END OF TASK

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REMOTE FILL PANEL AND FILL VALVE - REMOVAL/INSTALLATION

1. **General**

A. This procedure has these tasks:

(1) Remote Fill Panel and Fill Valve Removal

(2) Remote Fill Panel and Fill Valve Installation.

TASK 35-12-81-000-801

2. **Remote Fill Panel and Fill Valve Removal**

(Figure 401)

A. General

(1) The remote fill panel is the housing for the fill valve and the remote fill panel pressure indicator. It is installed in the electrical and electronics compartment. Access is through the electrical and electronics access hatch, 117A located aft of the forward wheel well.

(2) The fill valve allows the crew oxygen cylinder to be serviced or re-supplied directly from the oxygen servicing cart. It is not necessary to remove the remote fill panel housing to replace the fill valve.

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)
35-12-71-000-801	Remote Fill Panel Pressure Indicator Removal (P/B 401)

C. Location Zones

Zone	Area
118	Electrical and Electronics Compartment - Right

D. Prepare for Removal

SUBTASK 35-12-81-910-001

(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 35-12-81-860-001

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND

SUBTASK 35-12-81-860-002

CAUTION: DO NOT TIGHTEN THE SHUTOFF VALVE ON THE CREW OXYGEN CYLINDER MORE THAN 25 POUND-INCHES (2.8 NEWTON METERS). THIS CAN CAUSE DAMAGE TO THE SHUTOFF VALVE.

(3) Close the shutoff valve on the crew oxygen cylinder slowly.

NOTE: The shutoff valve can be closed by hand which is equivalent to 25 in-lb (2.8 N·m).

SUBTASK 35-12-81-020-001

(4) Remove the equipment case cover to get access to the back of the remote fill panel (View A).

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E. Remove the Remote Fill Panel and Fill Valve

SUBTASK 35-12-81-020-002

(1) Loosen the B-nut [6] on the fill line.

SUBTASK 35-12-81-480-001

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.

(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.

SUBTASK 35-12-81-860-003

(3) Disconnect the electrical connector [3] from the back of the pressure indicator [4].

SUBTASK 35-12-81-020-003

(4) Open the door [5] on the remote fill panel assembly [1].

SUBTASK 35-12-81-020-004

(5) To remove the fill valve [11], do these steps:

(a) Remove the screws [7] and washers [8].

(b) Remove the screws [9] and washers [10].

(c) Remove the fill valve [11].

(d) Remove the gaskets [2].

1) Examine the gaskets [2] for cracks or other damages.

2) Discard the gasket [2], if it is damaged.

SUBTASK 35-12-81-020-005

(6) To remove the remote fill panel assembly [1], do these steps:

(a) Remove the bolts [12], washers [13] and nuts [14] from the back and the front sides of the remote fill panel assembly [1].

(b) Remove the remote fill panel assembly [1].

SUBTASK 35-12-81-020-006

(7) If it is necessary to remove the pressure indicator [4], do this task: Remote Fill Panel Pressure Indicator Removal, TASK 35-12-71-000-801.

END OF TASK

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Remote Fill Panel and Fill Valve Installation
Figure 401/35-12-81-990-801 (Sheet 1 of 2)

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REMOTE FILL PANEL

B

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Remote Fill Panel and Fill Valve Installation
Figure 401/35-12-81-990-801 (Sheet 2 of 2)

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TASK 35-12-81-400-801

3. Remote Fill Panel and Fill Valve Installation

(Figure 401)

A. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-12-71-400-801	Remote Fill Panel Pressure Indicator Installation (P/B 401)

B. Tools/Equipment

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

C. Consumable Materials

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

D. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Panel assembly	35-12-71-02-125	AKS ALL
2	Gasket	35-12-71-02-115	AKS ALL

E. Location Zones

Zone	Area
118	Electrical and Electronics Compartment - Right

F. Prepare for Installation

SUBTASK 35-12-81-910-002

(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.

G. Install the Remote Fill Panel and Fill Valve

SUBTASK 35-12-81-420-001

(1) To install the remote fill panel assembly [1], do these steps:

(a) Put the remote fill panel assembly [1] into position.

(b) Install the bolts [12], washers [13] and nuts [14].

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SUBTASK 35-12-81-420-002

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

(2) To install the fill valve [11], do these steps:

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) Put the gaskets [2] into position.

(b) Put the fill valve [11] into position.

(c) Install the screws [9] and washers [10].

(d) Install the screws [7] and washers [8].

SUBTASK 35-12-81-080-001

(3) Remove the tube cap, STD-1130 from the fill line.

SUBTASK 35-12-81-420-003

(4) Attach and tighten the B-nut [6] to the fill line.

SUBTASK 35-12-81-420-004

(5) If it is necessary to install the pressure indicator [4], do this task: Remote Fill Panel Pressure Indicator Installation, TASK 35-12-71-400-801.

SUBTASK 35-12-81-420-005

(6) Connect the electrical connector [3] to the back of the pressure indicator [4].

SUBTASK 35-12-81-410-001

(7) Close the door [5] on the remote fill panel assembly [1].

H. Put the Airplane Back To Its Usual Condition.

SUBTASK 35-12-81-860-004

WARNING: OPEN THE SHUTOFF VALVE ON THE CREW OXYGEN CYLINDER SLOWLY. THE OXYGEN CAN RELEASE WITH A LARGE FORCE, AND CAUSE A FIRE. THIS CAN CAUSE INJURIES TO PERSONS AND DAMAGE TO EQUIPMENT.

(1) Open the shutoff valve fully on the crew oxygen cylinder.

(a) Close the shutoff valve one fourth of a turn.

SUBTASK 35-12-81-860-005

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND

SUBTASK 35-12-81-210-001

(3) Make sure the pressure shown on the pressure indicator [4], the crew oxygen cylinder, and the flight compartment are all approximately equal.

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SUBTASK 35-12-81-790-001

(4) Apply leak detection compound, G50306 to the B-nut [6] on the fill line to make sure there are no leaks.

SUBTASK 35-12-81-790-002

(5) Remove the leak detection compound, G50306 with a clean cotton wiper, G00034 immediately after you do the test.

SUBTASK 35-12-81-410-002

(6) Re-install the equipment case cover (View A).

END OF TASK

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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 35-12-85-910-005

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

SUBTASK 35-12-85-010-003

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

SUBTASK 35-12-85-210-001

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

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

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

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

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

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

SUBTASK 35-12-85-420-026

(5) Open the mask stowage box doors.

SUBTASK 35-12-85-420-027

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

SUBTASK 35-12-85-420-028

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

SUBTASK 35-12-85-860-009

(8) Make sure the DILUTION CONTROL LEVER is on the 100% position.

SUBTASK 35-12-85-860-010

(9) Make sure the EMERGENCY OXYGEN CONTROL KNOB is in the normal position.

SUBTASK 35-12-85-530-001

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

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

SUBTASK 35-12-85-530-002

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

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

SUBTASK 35-12-85-530-003

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

SUBTASK 35-12-85-530-004

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

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

NOTE: Let the excess harness hang downward.

SUBTASK 35-12-85-530-005

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

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SUBTASK 35-12-85-530-006

(15) Put the harness into the mask stowage box, 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 lid 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 lid on the mask stowage box.

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

SUBTASK 35-12-85-530-010

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

(19) Push the TEST/RESET LEVER on the left lid 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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Crew Oxygen Mask Maintenance Practices
Figure 201/35-12-85-990-803 (Sheet 1 of 4)

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CREW OXYGEN MASK
(CAPTAIN'S OXYGEN MASK IS SHOWN, OTHER CREW MEMBERS' OXYGEN MASKS ARE EQUIVALENT)

A

H37094 S0006577550_V3

Crew Oxygen Mask Maintenance Practices
Figure 201/35-12-85-990-803 (Sheet 2 of 4)

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Crew Oxygen Mask Maintenance Practices
Figure 201/35-12-85-990-803 (Sheet 3 of 4)

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OXYGEN MASK/REGULATOR
(SHOWN INFLATED)
(EXAMPLE)

E

1342494 S0000238502_V3

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

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CREW OXYGEN MASK/STOWAGE BOX - REMOVAL/INSTALLATION

1. General

A. This procedure contains scheduled maintenance task data.

B. This procedure contains these tasks:

(1) Oxygen Mask Stowage Box Removal

(2) Oxygen Mask Stowage Box Installation

(3) Oxygen Mask Removal

(4) Oxygen Mask Installation.

TASK 35-12-85-000-801

2. Oxygen Mask Stowage Box Removal

(Figure 401)

A. References

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

B. Location Zones

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

C. Remove the Oxygen Mask Stowage Box

SUBTASK 35-12-85-910-001

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

SUBTASK 35-12-85-870-001

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

SUBTASK 35-12-85-860-001

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

F/O Electrical System Panel, P6-2

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

SUBTASK 35-12-85-010-001

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

SUBTASK 35-12-85-860-002

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

SUBTASK 35-12-85-020-001

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

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(a) Loosen the four quarter-turn fasteners [1].

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

SUBTASK 35-12-85-020-002

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

SUBTASK 35-12-85-020-003

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

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

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

1) Disconnect the oxygen supply hose [3].

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

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

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

SUBTASK 35-12-85-020-004

(9) Remove the mask stowage box assembly [5].

END OF TASK

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Oxygen Mask Stowage Box Installation
Figure 401/35-12-85-990-801 (Sheet 1 of 2)

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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 401/35-12-85-990-801 (Sheet 2 of 2)

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TASK 35-12-85-400-801

3. Oxygen Mask Stowage Box Installation

(Figure 401)

A. References

Reference	Title
23-51-00-710-801	Flight Interphone System - Operational Test (P/B 501)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-12-00-700-802	Crew Oxygen Mask-Regulator Test (P/B 501)
35-12-00-800-802	Leak Test the Crew Oxygen System After System Maintenance or Repair (P/B 201)

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
5	Box assembly	35-12-85-20D-155	AKS 001-004
		35-12-85-20D-255	AKS ALL
		35-12-85-20E-455	AKS 001-004
		35-12-85-20E-655	AKS 001-004

C. Location Zones

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

D. Install the Oxygen Mask Stowage Box

SUBTASK 35-12-85-910-002

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

SUBTASK 35-12-85-410-001

(2) Go into the flight compartment to the area where you will install the crew oxygen mask stowage box(es).

SUBTASK 35-12-85-860-003

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

SUBTASK 35-12-85-420-001

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

(4) Do these steps to connect the oxygen supply hose [3]:

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

(a) Remove the protective plugs and caps.

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WARNING: YOU MUST USE TWO WRENCHES TO TIGHTEN THE OXYGEN SUPPLY HOSE TO THE OXYGEN MASK STOWAGE BOX FITTING. DAMAGE TO THE OXYGEN SUPPLY HOSE CAN OCCUR IF YOU DO NOT USE WRENCHES TO CONNECT THESE COMPONENTS.

(b) Connect the oxygen supply hose [3] to the fitting.

(c) Use a backup wrench to make sure the fitting does not turn.

SUBTASK 35-12-85-790-001

(5) Do a leak check of the oxygen supply hose [3] (TASK 35-12-00-800-802).

SUBTASK 35-12-85-420-002

(6) Connect the microphone connector [4] to the communications connection at the back of the mask stowage box assembly [5].

SUBTASK 35-12-85-420-003

(7) Do these steps to install the oxygen mask stowage box:

(a) Position the oxygen supply hose [3] and microphone connector [4] in such a way to make sure they will not rub on the structure.

(b) Carefully install the mask stowage box assembly [5].

(c) Confirm the orientation of the mask stowage box assembly [5] is installed correctly.

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

SUBTASK 35-12-85-410-002

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

SUBTASK 35-12-85-860-004

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

F/O Electrical System Panel, P6-2

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

SUBTASK 35-12-85-710-001

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

SUBTASK 35-12-85-710-002

(11) To do a check of the boom microphone to make a voice transmission between two flight crew stations, do this task: Flight Interphone System - Operational Test, TASK 23-51-00-710-801.

END OF TASK

TASK 35-12-85-000-802

4. Oxygen Mask/Regulator Removal

(Figure 401,Figure 402)

NOTE: This procedure is a scheduled maintenance task.

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)

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(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
211	Flight Compartment - Left
212	Flight Compartment - Right

C. Remove the Oxygen Mask/Regulator

SUBTASK 35-12-85-910-003

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

SUBTASK 35-12-85-870-002

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

SUBTASK 35-12-85-860-005

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

F/O Electrical System Panel, P6-2

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

SUBTASK 35-12-85-010-002

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

SUBTASK 35-12-85-860-006

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

SUBTASK 35-12-85-020-005

CAUTION: MAKE SURE THAT THE MASK LENS DOES NOT COME IN CONTACT WITH THE RIM OF THE BOX. DAMAGE TO THE MASK LENS CAN OCCUR.

(6) Do these steps to remove the captain's and first officer's oxygen mask assembly [25] from the oxygen mask stowage box [21]:

(a) Open the left and right lid on the applicable oxygen mask stowage box [21].

(b) Disconnect the microphone line at the microphone connection [23].

(c) Disconnect the oxygen supply hose at the oxygen supply hose connection [22].

(d) Bundle the oxygen supply hose [24] and microphone line together.

(e) Remove the oxygen mask assembly [25].

SUBTASK 35-12-85-020-006

CAUTION: MAKE SURE THAT THE MASK LENS DOES NOT COME IN CONTACT WITH THE RIM OF THE BOX. DAMAGE TO THE MASK LENS CAN OCCUR.

(7) For the first observer's oxygen mask assembly [26]:

(a) Go to the first observer's oxygen mask stowage cup.

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(b) Disconnect the microphone line at the microphone connection [27].

(c) Disconnect the oxygen supply hose at the oxygen supply hose connection [28].

(d) Bundle the oxygen supply hose and microphone line together.

(e) Remove the oxygen mask assembly [26].

SUBTASK 35-12-85-480-001

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

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

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

END OF TASK

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Crew Oxygen Mask Installation
Figure 402/35-12-85-990-802 (Sheet 1 of 3)

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Crew Oxygen Mask Installation
Figure 402/35-12-85-990-802 (Sheet 2 of 3)

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OXYGEN MASK/REGULATOR
(SHOWN INFLATED)
(EXAMPLE)

D

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Crew Oxygen Mask Installation
Figure 402/35-12-85-990-802 (Sheet 3 of 3)

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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	35-12-85-20E-005	AKS ALL
26	Mask assembly	35-12-85-20D-255	AKS ALL

C. Location Zones

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

D. Install the Oxygen Mask/Regulator

SUBTASK 35-12-85-910-004

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

SUBTASK 35-12-85-410-003

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

SUBTASK 35-12-85-860-007

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

SUBTASK 35-12-85-080-001

(4) Remove the caps and plugs from the oxygen supply line.

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SUBTASK 35-12-85-420-004

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

CAUTION: MAKE SURE THAT THE MASK LENS DOES NOT COME IN CONTACT WITH THE RIM OF THE BOX. DAMAGE TO THE MASK LENS CAN OCCUR.

(5) Do these steps to connect the captains and first officers oxygen mask assembly [25] in the stowage box [21]:

NOTE: Oxygen clean fittings come from a sealed 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.

(a) Go to the applicable oxygen mask stowage box [21].

(b) Open the left and right covers on the oxygen mask stowage box [21].

(c) Connect the oxygen supply hose [24] at the oxygen supply hose connection [22] in the oxygen mask stowage box [21].

(d) Connect the microphone line at the microphone connection [23] in the oxygen mask stowage box [21].

(e) Remove the opaque lens cover from the face mask lens, if it is installed. (Figure 402).

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.

(f) Install the crew oxygen mask assembly [25] in the oxygen mask stowage box [21].

SUBTASK 35-12-85-420-005

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

CAUTION: MAKE SURE THAT THE MASK LENS DOES NOT COME IN CONTACT WITH THE RIM OF THE BOX. DAMAGE TO THE MASK LENS CAN OCCUR.

(6) Do these steps to connect the first observers oxygen mask assembly [26]:

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.

(a) Go to the first observers oxygen mask stowage cup.

(b) Connect the microphone line at the microphone connection [27] adjacent to the stowage cup.

(c) Connect the oxygen supply hose at the oxygen supply hose connection [28] adjacent to the stowage cup.

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(d) Install the first observers oxygen mask assembly [26].

SUBTASK 35-12-85-860-008

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

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 35-12-85-790-002

(8) Do a leak check of the oxygen supply hose connection [22] and the oxygen supply hose connection [28] (TASK 35-12-00-800-802).

SUBTASK 35-12-85-710-003

(9) 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 the Oxygen Mask Microphone Test. Refer to 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.

NOTE: If the second observer's oxygen mask was replaced, Flight Interphone System - Operational Test, TASK 23-51-00-710-801 is not required.

SUBTASK 35-12-85-420-007

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

——— END OF TASK ———

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Crew Oxygen Mask Cleaning

1. General

A. This procedure contains 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. Clean the Crew Oxygen Mask

A. 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)

B. Consumable Materials

Reference	Description	Specification
B50259	Cleaner - SAN50 Disinfectant, single use sachet. (KI-OSE / SAN50)	
B50262	Alcohol - Isopropyl, grade A (water content 0.1 percent max.)	TT-I-735
G01043	Cloth - Lint-free	
G01306	Gloves - Lint-free	
G50140	Gloves - Protective, Latex or Nitrile	
G50151	Tissue - Lens (or equivalent), Dry Towelette	

C. Location Zones

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

D. Prepare for the Task

SUBTASK 35-12-85-910-008

(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 35-12-85-910-009

(2) Wear the 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 applicable oxygen mask from its stowage box, if it is necessary (Oxygen Mask/Regulator Removal, TASK 35-12-85-000-802).

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E. Procedure

CAUTION: 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.

SUBTASK 35-12-85-110-003

(1) Clean the lens of the smoke goggle with a dry lint-free cloth, G01043 or tissue, G50151.

SUBTASK 35-12-85-110-004

(2) Clean the face seal of the mask and the smoke goggle.

(a) Use the SAN50 disinfectant cleaner, B50259. Do not let the SAN50 disinfectant cleaner, B50259 touch the lens of the smoke goggles.

(b) Use a lint-free cloth, G01043 moist with alcohol, B50262 (Optional). Do not apply too much alcohol, B50262 to the mask face piece while cleaning. Do not let the alcohol, B50262 touch the lens of the smoke goggles.

(c) Dry the lens with a clean lint-free cloth, G01043. Then let the mask fully dry in the air.

NOTE: Make sure that the mask/regulator and smoke goggle assembly is fully dry before you put it in the stowage box.

F. Put The Airplane Back To Its Usual Condition

SUBTASK 35-12-85-410-014

(1) Do this task to install the oxygen mask and regulator assembly:

Oxygen Mask/Regulator Installation, TASK 35-12-85-400-802

END OF TASK

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H37075 S0006577543_V2

Crew Oxygen Mask Maintenance Practices
Figure 701/35-12-85-990-809 (Sheet 1 of 3)

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CREW OXYGEN MASK
(CAPTAIN'S OXYGEN MASK IS SHOWN, OTHER CREW MEMBERS' OXYGEN MASKS ARE EQUIVALENT)

A

H37094 S0006577550_V3

Crew Oxygen Mask Maintenance Practices
Figure 701/35-12-85-990-809 (Sheet 2 of 3)

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Crew Oxygen Mask Maintenance Practices
Figure 701/35-12-85-990-809 (Sheet 3 of 3)

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PASSENGER OXYGEN SYSTEM - ADJUSTMENT/TEST

1. **General**
   A. This procedure contains scheduled maintenance task data.
   B. This procedure contains these tasks:
      (1) Automatic Actuation Functional Test.
      (2) Manual Deploy Functional Test.
      (3) Visual Inspection of the Heat-Sensitive Band On Oxygen Generator.
   C. This procedure tests the operation of the passenger oxygen system. The procedure tests the automatic (pressure switch) and manual (flight compartment switch) activation of the door latch actuators found on each oxygen box door.
   D. You must install the door test stop, or the masking tape, to the door of each PSU before you begin the test. The PSU oxygen box doors will open and the oxygen masks will go out of the oxygen boxes during the functional test if you do not install the door test stop or the masking tape.
   E. The door test stop of each lavatory and attendant oxygen box must be in the test position before you begin this test. The oxygen box doors will open and the oxygen masks will go out of the oxygen boxes during the functional test if the test stop is not in the test stop position.

TASK 35-22-00-700-801

2. **Passenger Oxygen System - Automatic Actuation Functional Test**
   (Figure 501, Figure 502, Figure 503)

   NOTE: This procedure is a scheduled maintenance task.

   A. References

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-41-000-801	Altitude Pressure Switch - Removal (S813) (P/B 401)
35-22-41-400-801	Altitude Pressure Switch - Installation (S813) (P/B 401)

   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.

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Reference	Description
COM-1914	Test Set - Air Data Model FLMTS (Flight Line Maintenance) Part #: 18910920000 Supplier: 89944 Part #: ADTS405F Supplier: U0427 Part #: ADTS530 Supplier: U0427 Part #: ADTS552F 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 #: MPS43 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 #: 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
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 - Tee, Vacuum Hose (to Attach Vacuum Gauge to Vacuum Hose)
STD-1320	Gauge - Vacuum
STD-1321	Valve - Shutoff
STD-3900	Adapter - Straight, Tube to Hose (meets AS5180D04 specification)

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
212	Flight Compartment - Right

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E. Prepare for the Test

SUBTASK 35-22-00-910-001

(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 35-22-00-860-001

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

SUBTASK 35-22-00-860-002

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

F/O Electrical System Panel, P6-3

Row	Col	Number	Name
B	12	C00132	MASTER CAUTION ANNUNCIATOR BUS 1
B	13	C00131	MASTER CAUTION ANNUNCIATOR BAT
D	11	C00133	INDICATOR MASTER DIM DIM/TST CONT
D	12	C00310	INDICATOR MASTER DIM BAT
D	13	C00311	INDICATOR MASTER DIM BUS 1
D	14	C00312	INDICATOR MASTER DIM BUS 2
E	11	C00313	INDICATOR MASTER DIM SECT 1
E	12	C00314	INDICATOR MASTER DIM SECT 2
E	13	C00315	INDICATOR MASTER DIM SECT 3
E	14	C00316	INDICATOR MASTER DIM SECT 4
F	11	C00317	INDICATOR MASTER DIM SECT 5
F	12	C00318	INDICATOR MASTER DIM SECT 6

Power Distribution Panel Number 2, P92

Row	Col	Number	Name
F	5	C03012	XFR BUS 2 SECT 2

SUBTASK 35-22-00-860-029

(4) Do these steps to prepare the test stops of each oxygen box door of the lavatories, 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 functional test.

SUBTASK 35-22-00-860-030

(5) Do these steps to prepare the oxygen mask doors of the PSUs in the overhead bins of the passenger cabin.

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(a) Install the test stop key assembly, COM-14099, or the masking tape, G02311, to the oxygen mask door of each PSU.

1) If you use the test stop key assembly, COM-14099, make sure that the tool is installed through the slot in the door. The tool must fully engage the latch of the door latch actuator.

2) If you use the masking tape, G02311, install it to let the door open 1.0 ±0.5 in. (2.5 ±1.3 cm), but not fully open.

SUBTASK 35-22-00-860-004

(6) 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.

F. Automatic Actuation Functional Test

SUBTASK 35-22-00-860-005

(1) Open this circuit breaker and install safety tag:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	9	C00784	OXYGEN PASS RIGHT

SUBTASK 35-22-00-480-001

(2) Do these steps to install the test equipment on the altitude pressure switch, S813, (Figure 502):

(a) Go to the J23 BOX found to the left of the door in the main electronics compartment.

(b) If necessary, remove the cover to get access to the Altitude Pressure Switch.

(c) Find the Altitude Pressure Switch fitting through the hole in the forward side of the J23 BOX.

(d) Connect these components to the altitude pressure switch:

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.

1) adapter, STD-3900

2) hose, STD-1318

3) connector, STD-1319

4) gauge, STD-1320

5) shutoff valve, STD-1321

6) vacuum pump, COM-1931

7) air data model test set, COM-1914

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SUBTASK 35-22-00-720-001

CAUTION: DO NOT APPLY A POSITIVE PRESSURE ON THE ALTITUDE PRESSURE SWITCH. IF YOU APPLY POSITIVE PRESSURE, IT WILL CAUSE DAMAGE TO THE ALTITUDE PRESSURE SWITCH.

(3) Slowly decrease the pressure to the S813 altitude pressure switch to simulate cabin altitude between 17.8 in. (452.8 mm) and 17.3 in. (440.2 mm) mercury absolute (14,000 ±350 ft (4267 ±107 m) cabin altitude).

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

SUBTASK 35-22-00-720-002

(4) 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 ±350 ft (4267 ±107 m) cabin altitude.

(a) If the doors of the oxygen boxes do not release at or below 17.3 in. (440.2 mm) mercury absolute 14,350 ft (4374 m), the S813 switch is defective. Do these tasks to replace the S813 altitude pressure switch:

Altitude Pressure Switch - Removal (S813), TASK 35-22-41-000-801

Altitude Pressure Switch - Installation (S813), TASK 35-22-41-400-801

SUBTASK 35-22-00-720-003

(5) Make sure that the PASS OXY ON light (on the oxygen system module, P5-14 overhead panel) comes on (Figure 501).

SUBTASK 35-22-00-720-004

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

SUBTASK 35-22-00-720-005

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

SUBTASK 35-22-00-720-006

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

SUBTASK 35-22-00-720-007

(9) Push the LIGHTS switch to the BRT (bright) position.

SUBTASK 35-22-00-720-008

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

SUBTASK 35-22-00-720-009

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

SUBTASK 35-22-00-720-010

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

SUBTASK 35-22-00-720-011

(13) Push one of the two master caution displays.

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

SUBTASK 35-22-00-720-012

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

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SUBTASK 35-22-00-720-013

(15) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

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

SUBTASK 35-22-00-720-014

(16) Make sure that the PASS OXY ON light does not come on.

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

SUBTASK 35-22-00-720-017

(17) 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	9	C00784	OXYGEN PASS RIGHT

NOTE: The OXYGEN PASS RIGHT (C00784) circuit breaker must be closed within 5 seconds after closing the OXYGEN IND (C00156) circuit breaker. The electrical power for releasing the oxygen box doors is turned off five seconds later after closing the OXY PASS RIGHT (C00784) circuit breaker.

SUBTASK 35-22-00-720-018

(18) Make sure that the PASS OXY ON light on the P5-14 panel comes on.

SUBTASK 35-22-00-720-019

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

SUBTASK 35-22-00-720-020

(20) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND
F	9	C00784	OXYGEN PASS RIGHT

SUBTASK 35-22-00-720-021

(21) Make sure that the PASS OXY ON light (P5-14 panel) does not show.

SUBTASK 35-22-00-720-022

(22) Slowly remove the vacuum to the altitude pressure switch, S813.

SUBTASK 35-22-00-080-001

(23) Do these steps to remove the test equipment from the pressure switch:

(a) Remove the test equipment.

(b) If necessary, Install the two screws that hold the altitude pressure switch, S813, to the J23 BOX.

(c) Install the cover to the J23 BOX with the four screws.

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G. Put the System Back to the Usual Condition

SUBTASK 35-22-00-865-002

(1) Make sure that these circuit breakers are closed:

CAPT Electrical System Panel, P18-3

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 35-22-00-710-001

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

END OF TASK

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

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G18886 S0006577740_V2

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

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G18888 S0006577741_V2

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

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PASSENGER COMPARTMENT
(EXAMPLE)

PASSENGER SERVICE UNIT (PSU)

1955674 S0000372857_V3

Passenger Oxygen - Mask Box Door Operation
Figure 503/35-22-00-990-803 (Sheet 1 of 4)

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FORWARD ENTRY AREA

ATTENDANT SERVICE UNIT (ASU)

B

LAVATORY

C

1957035 S0000374005_V2

Passenger Oxygen - Mask Box Door Operation
Figure 503/35-22-00-990-803 (Sheet 2 of 4)

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DEPLOYMENT OF THE TEST STOP BUTTON

D

MASK BOX DOOR IN THE TEST POSITION

D

LATCH ACTUATOR PLUNGER IN THE SET POSITION BEFORE THE MASK BOX DOOR IS CLOSED

D

1957039 S0000374006_V2

Passenger Oxygen - Mask Box Door Operation
Figure 503/35-22-00-990-803 (Sheet 3 of 4)

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FWD

DOOR LATCH
(LATCH NOT PRESSED)
(EXAMPLE)

E

FWD

DOOR LATCH
(LATCH PRESSED)
(EXAMPLE)

E

2161667 S0000475275_V2

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

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TASK 35-22-00-700-802

3. **Passenger Oxygen System - Manual Deploy Functional Test**
(Figure 501, Figure 503)

NOTE: This procedure is a scheduled maintenance task.

A. References

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

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. Location Zones

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

E. Prepare for the Test

SUBTASK 35-22-00-910-004

(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 35-22-00-860-037

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

SUBTASK 35-22-00-860-038

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

F/O Electrical System Panel, P6-3

Row	Col	Number	Name
B	12	C00132	MASTER CAUTION ANNUNCIATOR BUS 1

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(Continued)

F/O Electrical System Panel, P6-3

Row	Col	Number	Name
B	13	C00131	MASTER CAUTION ANNUNCIATOR BAT
D	11	C00133	INDICATOR MASTER DIM DIM/TST CONT
D	12	C00310	INDICATOR MASTER DIM BAT
D	13	C00311	INDICATOR MASTER DIM BUS 1
D	14	C00312	INDICATOR MASTER DIM BUS 2
E	11	C00313	INDICATOR MASTER DIM SECT 1
E	12	C00314	INDICATOR MASTER DIM SECT 2
E	13	C00315	INDICATOR MASTER DIM SECT 3
E	14	C00316	INDICATOR MASTER DIM SECT 4
F	11	C00317	INDICATOR MASTER DIM SECT 5
F	12	C00318	INDICATOR MASTER DIM SECT 6

Power Distribution Panel Number 2, P92

Row	Col	Number	Name
F	5	C03012	XFR BUS 2 SECT 2

SUBTASK 35-22-00-860-041

(4) Do these steps to prepare the test stops of each oxygen box door of the lavatories, 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 functional test.

SUBTASK 35-22-00-860-042

(5) Do these steps to prepare the oxygen mask doors of the PSUs in the overhead bins of the passenger cabin.

(a) Install the test stop key assembly, COM-14099, or the masking tape, G02311, to the oxygen mask door of each PSU.

1) If you use the test stop key assembly, COM-14099, make sure that the tool is installed through the slot in the door. The tool must fully engage the latch of the door latch actuator.

2) If you use the masking tape, G02311, install it to let the door open 1.0 ±0.5 in. (2.5 ±1.3 cm), but not fully open.

SUBTASK 35-22-00-860-043

(6) 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.

F. Manual Deploy Functional Test

SUBTASK 35-22-00-860-044

(1) Do these steps for the ASU's and LSU's of the passenger cabin :

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(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.

(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 35-22-00-860-045

(2) Do these steps for the underbin PSU's 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) Arm the door latch actuator.

a) Push the door latch fully aft.

CAUTION: 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.

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

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

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

(b) Install the test stop key assembly, COM-14099, or masking tape, G02311, to the oxygen mask door of each PSU.

1) If you use the test stop key assembly, COM-14099, make sure that the tool is installed through the slot in the door. The tool must fully engage the PSU door latch actuator.

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

SUBTASK 35-22-00-860-047

(3) Make sure that this circuit breaker is closed:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	8	C00785	OXYGEN MAN CONT

SUBTASK 35-22-00-720-062

(4) 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

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SUBTASK 35-22-00-860-048

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	9	C00784	OXYGEN PASS RIGHT

SUBTASK 35-22-00-720-063

(6) Push the PASS OXYGEN switch on the P5-14 panel, to the ON position, momentarily. Release the switch to the NORMAL position (Figure 501).

SUBTASK 35-22-00-720-064

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

NOTE: The "MASTER CAUTION" and "OVERHEAD" indicators on the Master Caution display could possibly come on. If these indicators on the display do not come on, it does not show an unserviceable condition.

SUBTASK 35-22-00-720-065

(8) Make sure that the doors of the PSUs on the left side of the passenger cabin release against the test stops.

SUBTASK 35-22-00-720-067

(9) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

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

SUBTASK 35-22-00-720-068

(10) Make sure that the PASS OXY ON light on the P5-14 panel goes off.

SUBTASK 35-22-00-720-069

(11) 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	9	C00784	OXYGEN PASS RIGHT

SUBTASK 35-22-00-720-070

(12) Make sure that the PASS OXY ON light on the P5-14 panel stays off.

SUBTASK 35-22-00-720-071

(13) Put the PASS OXYGEN switch on the P5-14 panel, to the ON position, momentarily. Release the switch back to the NORMAL position.

SUBTASK 35-22-00-720-072

(14) Make sure that the PASS OXY ON light on the P5-14 panel comes on.

SUBTASK 35-22-00-720-073

(15) Make sure that the doors of the oxygen boxes on the right side of the passenger cabin release and move down against the test stops.

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SUBTASK 35-22-00-720-076

(16) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND
F	9	C00784	OXYGEN PASS RIGHT

SUBTASK 35-22-00-720-077

(17) Make sure that the PASS OXY ON light on the P5-14 panel goes off.

SUBTASK 35-22-00-860-051

(18) Do these steps to close the oxygen box doors of each ASU and LSU:

(a) Hold the oxygen box door in the closed position.

(b) Turn the test stop button 90 degrees clockwise.

(c) 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.

(d) Release the test stop button.

(e) Fully close and latch the mask box door.

SUBTASK 35-22-00-860-052

(19) Do these steps to close the door of the oxygen boxes of the underbin PSU's of the passenger cabin.

(a) Hold the mask door of the PSU oxygen box to the almost closed position.

(b) Remove thetest stop key assembly, COM-14099 (or masking tape, G02311) from the oxygen mask door of each PSU.

(c) Arm the door latch actuator.

1) Push the door latch fully aft.

CAUTION: 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.

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

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

G. Put the System Back to the Usual Condition

SUBTASK 35-22-00-860-055

(1) Make sure that these circuit breakers are closed:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

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SUBTASK 35-22-00-710-008

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

——— END OF TASK ———

TASK 35-22-00-210-801

4. Visual Inspection of the Oxygen Generator

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
25-23-61-000-804	Passenger Service Unit - Removal (P/B 401)
25-23-61-400-804	Passenger Service Unit - Installation (P/B 401)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-11-000-804-001	PSU Oxygen Generator Removal (P/B 401)
35-22-11-000-805-001	ASU Oxygen Generator Removal (P/B 401)
35-22-11-000-806-001	LSU Oxygen Generator Removal (P/B 401)
35-22-11-400-804-001	PSU Oxygen Generator Installation (P/B 401)
35-22-11-400-805-001	ASU Oxygen Generator Installation (P/B 401)
35-22-11-400-806-001	LSU Oxygen Generator Installation (P/B 401)
35-22-11-400-811-001	Oxygen Generator Activation (P/B 201)
35-22-31-000-804-001	ASU and LSU Oxygen Mask Packing (P/B 201)
35-22-31-420-801-001	ASU Oxygen Mask Packing (P/B 201)
35-22-31-420-802-001	LSU Oxygen Mask Packing (P/B 201)

B. Consumable Materials

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

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Prepare to Inspect the Heat-Sensitive Band On the Oxygen Generator

SUBTASK 35-22-00-910-002

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

SUBTASK 35-22-00-010-001

(2) Get access to the oxygen generator as follows:

(a) Lower the applicable passenger PSU: (Passenger Service Unit - Removal, TASK 25-23-61-000-804).

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

1) Go to the applicable ASU or LSU.

2) Apply masking tape, G02311 to the applicable door.

3) Put a tool into the latch access hole.

4) Push up on the tool to operate the door latch.

5) Open the oxygen box door.

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6) Let the door rest on the masking tape, G02311.

E. Inspect the Heat-Sensitive Band On the Oxygen Generator

SUBTASK 35-22-00-210-001

(1) 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.

NOTE: If the heat-sensitive band on the oxygen generator is black, the oxygen generator is fired.

(a) Do these steps to replace the PSU oxygen generator.

These are the tasks:

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

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

(b) Do these steps to replace the ASU oxygen generator.

These are the tasks:

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

(ASU Oxygen Generator Installation, TASK 35-22-11-400-805-001), (ASU and LSU Oxygen Mask Packing, TASK 35-22-31-000-804-001 or ASU Oxygen Mask Packing, TASK 35-22-31-420-801-001 or LSU Oxygen Mask Packing, TASK 35-22-31-420-802-001).

(c) Do these steps to replace the LSU oxygen generator.

These are the tasks:

AKS 001-006

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

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

AKS ALL

(ASU and LSU Oxygen Mask Packing, TASK 35-22-31-000-804-001 or ASU Oxygen Mask Packing, TASK 35-22-31-420-801-001 or LSU Oxygen Mask Packing, TASK 35-22-31-420-802-001).

F. Inspect the Chemical Oxygen Generator Safety Pin

SUBTASK 35-22-00-080-003

(1) Make sure that the Safety Pin is removed from the Chemical Oxygen Generator, (Oxygen Generator Activation, TASK 35-22-11-400-811-001).

G. Close the Access to the Chemical Oxygen Generator.

SUBTASK 35-22-00-410-002

(1) Close the access for the oxygen generator as follows:

(a) Close the applicable passenger PSU, do the task: (Passenger Service Unit - Installation, TASK 25-23-61-400-804).

(b) For the ASU or LSU, 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.

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3) Close and latch the oxygen box door.

4) Remove the masking tape from the oxygen box door (if installed).

5) Do a visual check of the door fit. Make sure that the oxygen equipment is free of the oxygen box door or actuator.

——— END OF TASK ———

AKS 007-999

TASK 35-22-00-210-802

5. Visual Inspection of the Oxygen Cylinder (CDS)

Figure 504

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)
35-22-51-000-801	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)

B. Consumable Materials

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

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Prepare to Inspect the Oxygen Cylinder

SUBTASK 35-22-00-910-005

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

SUBTASK 35-22-00-010-006

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

(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 the masking tape, G02311.

E. Inspect the Oxygen Cylinder

SUBTASK 35-22-00-210-027

(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.

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(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.

(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).

F. Inspect the Oxygen Cylinder Safety Pin

SUBTASK 35-22-00-210-028

(1) Make sure that the safety pin is removed from the oxygen cylinder, (Oxygen Cylinder (CDS) Activation, TASK 35-22-51-440-801).

G. Close the Access to the Oxygen Cylinder.

SUBTASK 35-22-00-410-003

(1) Close the access for the oxygen generator 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.

(d) Remove the masking tape from the oxygen box door (if installed).

(e) Do a visual check of the door fit. Make sure that the oxygen equipment is free of the oxygen box door or actuator.

END OF TASK

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CDS OXYGEN CYLINDER (EXAMPLE)

2336309 S0000531249_V3

Oxygen Cylinder (CDS) Activation/Deactivation
Figure 504/35-22-00-990-805

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OXYGEN GENERATOR - MAINTENANCE PRACTICES

1. General

A. This procedure contains scheduled maintenance task data.

B. This procedure has these tasks:

(1) Passenger oxygen generator deactivation.

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

(2) Passenger oxygen generator activation.

C. All replacement oxygen generators are supplied with a safety pin. The safety pin is installed in the firing mechanism of the oxygen generator. The generator cannot fire (start oxygen flow) when the safety pin is correctly installed. The generator is safe to touch when the safety pin is installed.

D. In addition to the safety pin, a secondary safety device is used for the transport of the spare oxygen generator. This secondary safety device must be removed from the firing pins release pin hole, before the release pin can be installed.

E. The safety pin is to be installed (oxygen generator deactivation) in the oxygen generator firing mechanism whenever the generator, oxygen box, or service unit is removed from the airplane. Once the generator, oxygen box, or service unit is installed, the safety pin must be removed (oxygen generator activation) prior to returning the aircraft to service.

F. All service units have at least one oxygen generator. The generator supplies oxygen to each of the connected oxygen masks. Each generator has a color stripe around the generator body to show if the oxygen generator has been previously fired. The flow of oxygen is begun by the downward pull of the oxygen mask by the passenger, providing that the generator has been properly activated.

G. It is necessary to use an approved pair of pin retraction pliers and a safety pin to deactivate an oxygen generator.

TASK 35-22-11-000-811-001

2. Oxygen Generator Deactivation

(Figure 201)

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
35-22-11-000-804-001	PSU Oxygen Generator Removal (P/B 401)
35-22-11-000-805-001	ASU Oxygen Generator Removal (P/B 401)
35-22-11-000-806-001	LSU Oxygen Generator Removal (P/B 401)
35-22-11-400-804-001	PSU Oxygen Generator Installation (P/B 401)
35-22-11-400-805-001	ASU Oxygen Generator Installation (P/B 401)
35-22-11-400-806-001	LSU Oxygen Generator Installation (P/B 401)
35-22-31-000-804-001	ASU and LSU Oxygen Mask Packing (P/B 201)
35-22-31-420-801-001	ASU Oxygen Mask Packing (P/B 201)
35-22-31-420-802-001	LSU 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.

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Reference	Description
COM-752	Safety Pin and Flag - Chemical Oxygen Generator Part #: E71401-00 Supplier: D1379
COM-1935	Pliers - Firing Pin Retraction Part #: E71516-00 Supplier: D1379
SPL-1937	Equipment - Firing Pin Retraction, BE Aerospace and AVOX oxygen generators Part #: C35003-10 Supplier: 81205 Part #: C35003-20 Supplier: 81205

I

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Procedure

SUBTASK 35-22-11-010-034-001

(1) Open the service unit if necessary to get access to the oxygen generator.

(a) For the Passenger Service Unit (PSU), do these steps to lower the PSU:

1) Put a rod into the latch access hole (2 locations).

2) Push the rod up to release the cam latches.

3) Lower the PSU.

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

1) Put a rod or flat tool into the latch access hole or door 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 35-22-11-210-025-001

(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 [1] has fired If the heat-sensitive band is black.

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

NOTE: If the firing pin [3] is in the fired position (the safety pin [6] cannot be installed). The oxygen generator [1] fired or it is damaged.

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

SUBTASK 35-22-11-020-032-001

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

(a) Replace a Passenger Service Unit (PSU) oxygen generator. These are the tasks:

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

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

(b) Replace a Attendant Service Unit (ASU) oxygen generator. These are the tasks:

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

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

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AKS 001-006

(c) Replace a Lavatory Service Unit (LSU) oxygen generator. These are the tasks:

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

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

AKS ALL

SUBTASK 35-22-11-040-018-001

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

E. Oxygen Generator Deactivation

SUBTASK 35-22-11-040-020

WARNING: 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.

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).

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

NOTE: Use the firing pin retraction pliers, COM-1935 and safety pin and flag, COM-752 for the Draeger Oxygen Generator.

NOTE: Use the firing pin retraction pliers and safety pin, SPL-1937 for the Puritan Bennett, B/E Aerospace, Scott and AvOx oxygen generators.

WARNING: 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 the firing pin spring case [5].

(b) Carefully move the release pin [2] and the firing pin [3] away from the firing pin spring case [5] with the pin retraction pliers [4].

NOTE: Do not release the pin retraction pliers.

(c) Install the safety pin [6] into the hole of the firing pin [3]. Install the safety pin in the hole of the firing pin that is nearest the generator. Make sure that the safety pin [6] is between the firing pin [3] and the firing pin spring case [5].

NOTE: Make sure that you install the safety pin [6] in the smaller of the two holes of the firing pin [3].

(d) Remove the release pin [2], only if it is necessary.

(e) Carefully release the pin retraction pliers [4] and remove them from the oxygen generator.

SUBTASK 35-22-11-410-031-001

(2) If no more maintenance is necessary, close the service unit.

(a) For the Passenger Service Unit (PSU), push the PSU panel up to engage the cam latches.

NOTE: The latches will make a "click" noise when they fully engage.

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

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1) To pack the oxygen masks, do this task: ASU and LSU Oxygen Mask Packing, TASK 35-22-31-000-804-001 or ASU Oxygen Mask Packing, TASK 35-22-31-420-801-001 or LSU Oxygen Mask Packing, TASK 35-22-31-420-802-001.

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.

——— END OF TASK ———

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OXYGEN GENERATOR
(EXAMPLE)

L80704 S0006577750_V3

Oxygen Generator Activation/Deactivation
Figure 201/35-22-11-990-801-001 (Sheet 1 of 3)

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OXYGEN GENERATOR FIRING MECHANISM

A

OXYGEN GENERATOR FIRING MECHANISM

A

FIRING MECHANISM (EXAMPLE)

B

A-A

B-B

L78876 S0006577751_V3

Oxygen Generator Activation/Deactivation
Figure 201/35-22-11-990-801-001 (Sheet 2 of 3)

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SAFETY PIN INSTALLATION

C

SAFETY PIN INSTALLATION

C 1

PIN RETRACTION PLIERS

D

PIN RETRACTION PLIERS

D 1

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

L78877 S0006577752_V5

Oxygen Generator Activation/Deactivation
Figure 201/35-22-11-990-801-001 (Sheet 3 of 3)

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TASK 35-22-11-400-811-001

3. Oxygen Generator Activation

(Figure 201)

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
35-22-11 P/B 401 Config 1	OXYGEN GENERATOR - REMOVAL/INSTALLATION
35-22-11-000-804-001	PSU Oxygen Generator Removal (P/B 401)
35-22-11-000-805-001	ASU Oxygen Generator Removal (P/B 401)
35-22-11-000-806-001	LSU Oxygen Generator Removal (P/B 401)
35-22-11-400-804-001	PSU Oxygen Generator Installation (P/B 401)
35-22-11-400-805-001	ASU Oxygen Generator Installation (P/B 401)
35-22-11-400-806-001	LSU Oxygen Generator Installation (P/B 401)
35-22-31-000-804-001	ASU and LSU Oxygen Mask Packing (P/B 201)
35-22-31-420-801-001	ASU Oxygen Mask Packing (P/B 201)
35-22-31-420-802-001	LSU 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 Part #: E71516-00 Supplier: D1379
SPL-1937	Equipment - Firing Pin Retraction, BE Aerospace and AVOX oxygen generators Part #: C35003-10 Supplier: 81205 Part #: C35003-20 Supplier: 81205

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Procedure

SUBTASK 35-22-11-010-035-001

(1) Open the service unit to get access to the oxygen generator.

(a) For the Passenger Service Unit (PSU), do these steps to lower the PSU:

1) Put a rod into the latch access hole (2 locations).

2) Push the rod up to release the cam latches.

3) Lower the PSU.

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

1) Put a rod or flat tool into the latch access hole or door clearance.

2) Push the tool up to release the door latch.

3) Open the oxygen box door.

4) Release the oxygen masks.

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SUBTASK 35-22-11-010-036-001

(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 [1] fired.

(b) Make sure that the safety pin [6] is installed in the firing pin [3] of the oxygen generator.

NOTE: If the firing pin [3] is in the fire position (the safety pin [6] cannot be installed), the oxygen generator [1] fired or the fire mechanism is bad.

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

SUBTASK 35-22-11-020-033-001

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

(a) Replace a Passenger Service Unit (PSU) oxygen generator. These are the tasks:

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

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

(b) Replace a Attendant Service Unit (ASU) oxygen generator. These are the tasks:

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

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

AKS 001-006

(c) Replace a Lavatory Service Unit (LSU) oxygen generator. These are the tasks:

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

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

AKS ALL

E. Oxygen Generator Activation

SUBTASK 35-22-11-410-032-001

(1) Examine the routing of the cable of the release pin [2]. 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. These tasks show the correct installation of the release cable.

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

OXYGEN GENERATOR - REMOVAL/INSTALLATION, PAGEBLOCK 35-22-11/401 Config 1.

AKS 001-006

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

AKS ALL

SUBTASK 35-22-11-210-029-001

(2) Examine the release pin.

(a) Remove and replace the release pin, if it is damaged, bent or has corrosion.

SUBTASK 35-22-11-410-033-001

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).

(3) Do these steps to activate the oxygen generator [1]:

(a) Install the safety pin [6] in the firing pin [3] of the oxygen generator, if it is necessary;

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(b) Then remove the secondary safety device from the firing pin [3] of the oxygen generator, if it is necessary.

NOTE: Use a secondary safety device, and the safety pin, for the transportation of spare oxygen generators. Remove the secondary safety device from the firing mechanism before the release pin is installed. Make sure that you remove the safety pin and the secondary safety device before you put the oxygen box in-service.

WARNING: MAKE SURE THAT THE RELEASE CABLE HAS FREE TRAVEL. THE RELEASE CABLE PULLS THE RELEASE PIN WHEN THE MASKS COME DOWN DURING AN EMERGENCY. IF THE ROUTING OF THE RELEASE CABLE IS INCORRECT, THE OXYGEN DISTRIBUTION SYSTEM WILL NOT OPERATE. THIS CAN CAUSE INJURIES TO PASSENGERS.

(c) Align the release pin [2] and the firing pin [3] to the installed positions. Then install the release pin [2] in the larger of the two holes of the firing pin [3]. Make sure that the shaft of the release pin extends fully through the firing pin of the generator.

(d) Use the firing pin retraction pliers, COM-1935 [4] for the Draeger Oxygen Generator.

(e) Use the firing pin retraction pliers and safety pin, SPL-1937 for the Puritan Bennett, B/E Aerospace, Scott and AvOx oxygen generators.

(f) Put the pin retraction pliers [4] between the release pin [2] and the firing pin spring case [5] of the oxygen generator [1]. Then move the firing pin away from the firing pin spring case [5] of the generator.

1) Make sure that the shaft of the release pin [2] extends fully through the firing pin [3] of the oxygen generator [1].

2) Then carefully remove the safety pin [6] from the firing pin [3] of the oxygen generator [1].

3) Let the pin retraction pliers [4] go closed, then remove the pliers.

SUBTASK 35-22-11-210-030

WARNING: MAKE SURE THAT THE RELEASE CABLE HAS FREE TRAVEL. THE RELEASE CABLE PULLS THE RELEASE PIN WHEN THE MASKS COME DOWN DURING AN EMERGENCY. IF THE ROUTING OF THE RELEASE CABLE IS INCORRECT, THE OXYGEN DISTRIBUTION SYSTEM WILL NOT OPERATE. THIS CAN CAUSE INJURIES TO PASSENGERS.

(4) Examine the routing of the cable of the release pin again. 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 35-22-11-410-035-001

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

SUBTASK 35-22-11-410-040-001

(6) If no more maintenance is necessary, close the applicable service unit.

(a) For the Passenger Service Unit (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 Attendant Service Unit (ASU), or Lavatory Service Unit (LSU), do these steps:

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1) To pack the oxygen masks, do this task: ASU and LSU Oxygen Mask Packing, TASK 35-22-31-000-804-001 or ASU Oxygen Mask Packing, TASK 35-22-31-420-801-001 or LSU Oxygen Mask Packing, TASK 35-22-31-420-802-001.

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.

——— END OF TASK ———

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OXYGEN GENERATOR - REMOVAL/INSTALLATION

1. **General**
   A. This procedure contains scheduled maintenance task data.
   B. This procedure contains these tasks:
      (1) Passenger Service Unit (PSU) Oxygen Generator Removal
      (2) PSU Oxygen Generator Installation
      (3) Attendant Service Unit (ASU) Oxygen Generator Removal
      (4) ASU Oxygen Generator Installation
      (5) Lavatory Service Unit (LSU) Oxygen Generator Removal
      (6) LSU Oxygen Generator Installation.
   C. Before you do maintenance on an oxygen system component that contains an oxygen generator you must install a safety pin in the oxygen generator firing mechanism. The safety pin will permit the oxygen generator to be handled and stored. If the safety pin is not installed, the oxygen generator can fire.
   D. All spare oxygen generators are supplied with a safety pin installed in the firing mechanism.
   E. When you do the removal and installation procedures for the ASUs and the LSUs, it is necessary to open the oxygen box door. When the oxygen box door is opened, the oxygen masks will drop (deploy). After you install the oxygen generator, you must then do the packing procedure for the oxygen masks.

TASK 35-22-11-000-804-001

2. **PSU Oxygen Generator Removal**
   (Figure 401)

   NOTE: This procedure is a scheduled maintenance task.

   A. References

Reference	Title
35-22-11-000-811-001	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 35-22-11-010-010-001

   (1) To lower the passenger service unit(s) (PSU), do these steps:
      (a) Put a rod into the latch access hole (2 locations).
      (b) Push up on the rod to unlatch the cam latches.
      (c) Lower the PSU.

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SUBTASK 35-22-11-040-009-001

WARNING: MAKE SURE A RELEASE PIN OR A SAFETY PIN (WITH A WARNING FLAG) IS INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF A PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F (230°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (APPROXIMATELY ONE HOUR).

(2) If the oxygen generator has not fired, do this task: Oxygen Generator Deactivation, TASK 35-22-11-000-811-001.

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

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 35-22-11-020-037

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

SUBTASK 35-22-11-020-036

(2) Remove the screw(s) [3] from the strap(s) [5].

(a) Keep the screw(s) [3] for installation.

SUBTASK 35-22-11-020-038

(3) Move the strap(s) [5] away from the oxygen generator [1].

SUBTASK 35-22-11-020-009-001

CAUTION: YOU MUST BE VERY CAREFUL WHEN YOU INSTALL AND REMOVE AN OXYGEN GENERATOR. DO NOT DAMAGE THE OXYGEN GENERATOR OR LET IT FALL. IF THE OXYGEN GENERATOR IS DAMAGED, IT IS POSSIBLE THAT THE OXYGEN GENERATOR WILL NOT FIRE.

CAUTION: DO NOT TRY TO REMOVE THE FIRING MECHANISM FROM THE OXYGEN GENERATOR. IT CANNOT BE ASSEMBLED AGAIN.

(4) Do these steps to remove the PSU oxygen generator [1] (View B):

(a) Make sure a safety pin [7] is installed in the firing pin on the oxygen generator [1].

(b) Pull the release pin from the firing pin.

WARNING: MAKE SURE YOU OBEY ALL APPLICABLE REGULATORY REQUIREMENTS FOR THE TRANSPORT OF OXYGEN GENERATORS. IF THE SERVICE LIFE OF THE GENERATORS HAS EXPIRED, YOU MUST FIRE THE GENERATORS AND MAKE SURE THE OXIDIZER CORE IS EMPTY. THIS MUST BE DONE BEFORE YOU PREPARE THE GENERATORS FOR TRANSPORT. IF THE GENERATORS ARE NOT FIRED AND EMPTY, THEY CAN ACCIDENTALLY FIRE DURING TRANSPORT AND CAUSE HEAT AND IGNITION. THIS CAN CAUSE DEATH OR INJURY TO PERSONS AND DAMAGE TO THE AIRCRAFT.

(c) Remove the oxygen generator [1].

END OF TASK

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C

2146698 S0000466491_V2

Oxygen Generator - PSU Installation
Figure 401/35-22-11-990-804-001 (Sheet 1 of 5)

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PASSENGER COMPARTMENT
(EXAMPLE)

PASSENGER SERVICE UNIT (PSU)

A

1955705 S0000372973_V4

Oxygen Generator - PSU Installation
Figure 401/35-22-11-990-804-001 (Sheet 2 of 5)

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PASSENGER COMPARTMENT
(EXAMPLE)

PASSENGER SERVICE UNIT (PSU)

A

2467309 S0000576464_V1

Oxygen Generator - PSU Installation
Figure 401/35-22-11-990-804-001 (Sheet 3 of 5)

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MASK BOX
(0XYGEN GENERATOR NOT SHOWN)

C

1997395 S0000389959_V2

Oxygen Generator - PSU Installation
Figure 401/35-22-11-990-804-001 (Sheet 4 of 5)

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OXYGEN GENERATOR (EXAMPLE)

B

1955712 S0000372974_V2

Oxygen Generator - PSU Installation
Figure 401/35-22-11-990-804-001 (Sheet 5 of 5)

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TASK 35-22-11-400-804-001

3. PSU Oxygen Generator Installation

(Figure 401)

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
25-23-61-400-804	Passenger Service Unit - Installation (P/B 401)
35-22-11-400-811-001	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 #: E71401-00 Supplier: D1379

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Oxygen generator	35-22-11-05L-025	AKS 001-006
		35-22-11-05M-025	AKS 001-006
		35-22-11-25-090	AKS 001-020, 025-999
		35-22-11-26-055	AKS 021-024

D. Location Zones

Zone	Area
200	Upper Half of Fuselage

E. Prepare to Install the PSU Oxygen Generator

SUBTASK 35-22-11-210-007-001

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

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

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.

(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 (230°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (APPROXIMATELY ONE HOUR).

(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:

1) dents.

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2) pushed-in ends.

3) a bent or loose firing mechanism.

4) unusual noises when the oxygen generator [1] is shaken gently.

SUBTASK 35-22-11-210-008-001

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

SUBTASK 35-22-11-210-009-001

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

F. PSU Oxygen Generator Installation

SUBTASK 35-22-11-400-001

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).

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

SUBTASK 35-22-11-211-005

(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 35-22-11-420-012

(3) Put the oxygen generator [1] in its installed position on the PSU.

(a) Install the oxygen supply line(s) [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 strap(s) [5] in the installed position, then install the screw(s) [3] in the strap(s) and the PSU.

SUBTASK 35-22-11-440-015

(4) Do this task: Oxygen Generator Activation, TASK 35-22-11-400-811-001.

SUBTASK 35-22-11-410-045

(5) To close the PSU, push the PSU panel up to fully engage the cam latches (Passenger Service Unit - Installation, TASK 25-23-61-400-804).

END OF TASK

TASK 35-22-11-000-805-001

4. ASU Oxygen Generator Removal

(Figure 402)

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
35-22-11-000-811-001	Oxygen Generator Deactivation (P/B 201)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

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

SUBTASK 35-22-11-010-013-001

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

SUBTASK 35-22-11-010-014-001

(2) Do these steps to open an ASU oxygen box [22].

(a) Put a tool into the latch access hole.

(b) Push up on the tool to operate the door latch.

(c) Open the oxygen box door.

(d) Let the oxygen masks to fall.

(e) Do not pull on the oxygen masks.

NOTE: If you pull on the oxygen masks, the oxygen generator will fire.

(f) Put the masks and streamer out of the way during the maintenance.

SUBTASK 35-22-11-020-016-001

WARNING: MAKE SURE A RELEASE PIN OR A SAFETY PIN (WITH A WARNING FLAG) IS INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF A PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F (230°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (WAIT APPROXIMATELY ONE HOUR).

(3) If the oxygen generator has not fired, do this task: Oxygen Generator Deactivation, TASK 35-22-11-000-811-001.

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

D. ASU Oxygen Generator Removal

SUBTASK 35-22-11-020-010-001

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

SUBTASK 35-22-11-020-011-001

(2) Disconnect the oxygen supply line from the manifold [21].

SUBTASK 35-22-11-020-012-001

CAUTION: YOU MUST BE VERY CAREFUL WHEN YOU INSTALL AND REMOVE AN OXYGEN GENERATOR. DO NOT DAMAGE THE OXYGEN GENERATOR OR LET IT FALL. IF THE OXYGEN GENERATOR IS DAMAGED, IT IS POSSIBLE THAT THE OXYGEN GENERATOR WILL NOT FIRE.

CAUTION: DO NOT TRY TO REMOVE THE FIRING MECHANISM FROM THE OXYGEN GENERATOR. IT CANNOT BE ASSEMBLED AGAIN.

(3) Do these steps to remove the oxygen generator [27] (View A):

(a) Make sure the safety pin [23] is installed in the firing pin.

(b) Remove the release pin from the firing pin.

(c) Remove the washers [25] and screws [24] (two locations) that hold the oxygen generator [27] to the oxygen box [22].

1) Keep the fasteners for the installation.

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WARNING: MAKE SURE YOU OBEY ALL APPLICABLE REGULATORY REQUIREMENTS FOR THE TRANSPORT OF OXYGEN GENERATORS. IF THE SERVICE LIFE OF THE GENERATORS HAS EXPIRED, YOU MUST FIRE THE GENERATORS AND MAKE SURE THE OXIDIZER CORE IS EMPTY. THIS MUST BE DONE BEFORE YOU PREPARE THE GENERATORS FOR TRANSPORT. IF THE GENERATORS ARE NOT FIRED AND EMPTY, THEY CAN ACCIDENTALLY FIRE DURING TRANSPORT AND CAUSE HEAT AND IGNITION. THIS CAN CAUSE DEATH OR INJURY TO PERSONS AND DAMAGE TO THE AIRCRAFT.

(d) Remove the oxygen generator [27] from the oxygen box [22].

(e) Remove the heat shield [26] from the oxygen generator [27].

1) Keep the heat shield [26] for the installation.

END OF TASK

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**ATTENDANT SERVICE UNIT (ASU)
(FORWARD ASU IS SHOWN)
(EXAMPLE)**

OXYGEN BOX

A

F75407 S0006577766_V2

**Oxygen Generator - ASU Installation
Figure 402/35-22-11-990-805-001 (Sheet 1 of 2)**

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ATTENDANT SERVICE UNIT (ASU)
(FORWARD ASU IS SHOWN)
(EXAMPLE)

D88989 S0000166052_V2

Oxygen Generator - ASU Installation
Figure 402/35-22-11-990-805-001 (Sheet 2 of 2)

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TASK 35-22-11-400-805-001

5. ASU Oxygen Generator Installation

(Figure 402)

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
35-22-11-400-811-001	Oxygen Generator Activation (P/B 201)

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
27	Oxygen generator	35-22-11-05L-025	AKS 001-006
		35-22-11-05M-025	AKS 001-006
		35-22-11-05N-025	AKS 001-006

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Prepare to Install the ASU Oxygen Generator(s)

NOTE: The capacities of the oxygen generators are not all the same. Make sure you install the correct part number and capacity (12 minute or 22 minute) generator.

SUBTASK 35-22-11-210-010-001

(1) Do these checks before you install the oxygen generator [27]:

(a) Make sure the heat-sensitive band on the oxygen generator [27] is not black.

NOTE: If the heat-sensitive band is black, the oxygen generator [27] has fired.

WARNING: MAKE SURE A RELEASE PIN OR A SAFETY PIN (WITH A WARNING FLAG) IS INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF A PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F (230°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (APPROXIMATELY ONE HOUR).

(b) Make sure a safety pin [23] is installed in the firing pin.

NOTE: If the firing pin is in the fired position (the firing pin is against the percussion cap), the oxygen generator [27] has fired or the firing mechanism is bad.

(c) Make sure the oxygen generator [27] does not have these types of damage:

1) dents.
2) pushed-in ends.
3) a bent or loose firing mechanism.
4) unusual noises when the oxygen generator [27] is shaken gently.

SUBTASK 35-22-11-210-011-001

(2) If the oxygen generator [27] is not serviceable, discard it.

SUBTASK 35-22-11-210-012-001

(3) If the oxygen generator [27] is serviceable, do the subsequent procedure.

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E. ASU Oxygen Generator Installation

SUBTASK 35-22-11-010-015-001

(1) Go to the applicable ASU in the passenger compartment.

SUBTASK 35-22-11-410-009-001

(2) Install the heat shield [26].

SUBTASK 35-22-11-820-002-001

CAUTION: YOU MUST BE VERY CAREFUL WHEN YOU INSTALL AND REMOVE AN OXYGEN GENERATOR. DO NOT DAMAGE THE OXYGEN GENERATOR OR LET IT FALL. IF THE OXYGEN GENERATOR IS DAMAGED, IT IS POSSIBLE THAT THE OXYGEN GENERATOR WILL NOT FIRE.

CAUTION: DO NOT TRY TO REMOVE THE FIRING MECHANISM FROM THE OXYGEN GENERATOR. IT CANNOT BE ASSEMBLED AGAIN.

(3) Put the oxygen generator [27] in its position with the safety pin and warning flag [23] in the direction of the release cable.

NOTE: Some PSUs contain a placard, which specifies the location to align the release pin. If the placard is installed, align the release pin between the arrows on the placard. If the placard is not installed, center the release pin above the top of the No Smoking/Fasten Seat Belt Lamp Housing Assembly.

(a) Locate the generator so that the safety pin, release pin and firing pin do not touch the oxygen box.

SUBTASK 35-22-11-410-010-001

(4) Install the oxygen box [22] with the washers [25] and screws [24] (two locations).

SUBTASK 35-22-11-420-005-001

(5) Connect the oxygen supply line to the manifold [21] on the oxygen generator.

NOTE: Make sure the oxygen supply line is tightly connected to the manifold.

SUBTASK 35-22-11-440-005-001

(6) Do this task: Oxygen Generator Activation, TASK 35-22-11-400-811-001.

END OF TASK

AKS 001-006

TASK 35-22-11-000-806-001

6. LSU Oxygen Generator Removal

(Figure 403)

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
35-22-11-000-811-001	Oxygen Generator Deactivation (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.

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AKS 001-006 (Continued)

Reference	Description
COM-752	Safety Pin and Flag - Chemical Oxygen Generator Part #: E71401-00 Supplier: D1379

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Prepare the LSU Oxygen Generator(s) for Removal

SUBTASK 35-22-11-010-016-001

(1) Go to the applicable lavatory unit.

SUBTASK 35-22-11-010-017-001

(2) Do these steps to open an LSU oxygen box [41] (View A).

(a) Put a tool into the latch access hole.

(b) Push up on the tool to operate the door latch.

(c) Open the oxygen box door.

(d) Let the oxygen masks fall.

(e) Do not pull on the oxygen masks.

NOTE: If you pull on the oxygen masks, the oxygen generator will fire.

(f) Put the masks and streamer out of the way during the maintenance.

SUBTASK 35-22-11-020-017-001

WARNING: MAKE SURE A RELEASE PIN OR A SAFETY PIN (WITH A WARNING FLAG) IS INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF A PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F (230°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (WAIT APPROXIMATELY ONE HOUR).

(3) If the oxygen generator has not fired, do this task: Oxygen Generator Deactivation, TASK 35-22-11-000-811-001.

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

E. LSU Oxygen Generator Removal

SUBTASK 35-22-11-030-001

(1) Disconnect the oxygen mask supply lines from the manifold [46].

SUBTASK 35-22-11-020-015-001

(2) Do these steps to remove the oxygen generator [42] (View A):

(a) Make sure the safety pin and flag, COM-752 are installed in the firing pin.

(b) Remove the release pin from the firing pin.

(c) Remove the washers [44] and screws [45] that attach the oxygen generator [42] and heat shield assembly to the oxygen box [41].

1) Keep the fasteners for the installation.

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AKS 001-006 (Continued)

WARNING: MAKE SURE YOU OBEY ALL APPLICABLE REGULATORY REQUIREMENTS FOR THE TRANSPORT OF OXYGEN GENERATORS. IF THE SERVICE LIFE OF THE GENERATORS HAS EXPIRED, YOU MUST FIRE THE GENERATORS AND MAKE SURE THE OXIDIZER CORE IS EMPTY. THIS MUST BE DONE BEFORE YOU PREPARE THE GENERATORS FOR TRANSPORT. IF THE GENERATORS ARE NOT FIRED AND EMPTY, THEY CAN ACCIDENTALLY FIRE DURING TRANSPORT AND CAUSE HEAT AND IGNITION. THIS CAN CAUSE DEATH OR INJURY TO PERSONS AND DAMAGE TO THE AIRCRAFT.

(d) Remove the oxygen generator [42] and heat shield assembly from the oxygen box [41].

(e) Remove the heat shield [47] from the oxygen generator [42].

1) Keep the heat shield assembly [47] for the installation.

END OF TASK

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LAVATORY SERVICE UNIT (LSU)
(AFT LSU IS SHOWN)
(EXAMPLE)

H33269 S0006577771_V2

Oxygen Generator - LSU Installation
Figure 403/35-22-11-990-806-001

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TASK 35-22-11-400-806-001

7. **LSU Oxygen Generator Installation**

(Figure 403)

NOTE: This procedure is a scheduled maintenance task.

A. **References**

Reference	Title
35-22-11-400-811-001	Oxygen Generator Activation (P/B 201)

B. **Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
42	Oxygen generator	35-22-11-05L-025	AKS 001-006
		35-22-11-05M-025	AKS 001-006
		35-22-11-05N-025	AKS 001-006

C. **Location Zones**

Zone	Area
200	Upper Half of Fuselage

D. **Prepare to Install the LSU Oxygen Generator(s)**

NOTE: The capacities of the oxygen generators are not all the same. Make sure you install the correct part number and capacity (12 minute or 22 minute).

SUBTASK 35-22-11-210-013-001

CAUTION: YOU MUST BE VERY CAREFUL WHEN YOU INSTALL AND REMOVE AN OXYGEN GENERATOR. DO NOT DAMAGE THE OXYGEN GENERATOR OR LET IT FALL. IF THE OXYGEN GENERATOR IS DAMAGED, IT IS POSSIBLE THAT THE OXYGEN GENERATOR WILL NOT FIRE.

CAUTION: DO NOT TRY TO REMOVE THE FIRING MECHANISM FROM THE OXYGEN GENERATOR. IT CANNOT BE ASSEMBLED AGAIN.

(1) Do these checks before you install the oxygen generator [42]:

(a) Make sure the heat-sensitive band on the oxygen generator [42] is not black.

NOTE: If the heat-sensitive band is black, the oxygen generator [42] has fired.

WARNING: MAKE SURE A RELEASE PIN OR A SAFETY PIN (WITH A WARNING FLAG) IS INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF A PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F (230°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (APPROXIMATELY ONE HOUR).

(b) Make sure a safety pin [43] is installed in the firing pin.

NOTE: If the firing pin is in the fired position (the firing pin is against the percussion cap), the oxygen generator [42] has fired or the firing mechanism is bad.

(c) Make sure the oxygen generator [42] does not have these types of damage:

1) dents.

2) pushed-in ends.

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AKS 001-006 (Continued)

3) a bent or loose firing mechanism.

4) unusual noises when the oxygen generator [42] is shaken gently.

SUBTASK 35-22-11-210-014-001

(2) If the oxygen generator [42] is not serviceable, discard it.

SUBTASK 35-22-11-210-015-001

(3) If the oxygen generator [42] is serviceable, do the subsequent procedure.

E. LSU Oxygen Generator Installation

SUBTASK 35-22-11-010-018-001

(1) Go to the applicable LSU in the passenger compartment.

SUBTASK 35-22-11-820-003-001

CAUTION: YOU MUST BE VERY CAREFUL WHEN YOU INSTALL AND REMOVE AN OXYGEN GENERATOR. DO NOT DAMAGE THE OXYGEN GENERATOR OR LET IT FALL. IF THE OXYGEN GENERATOR IS DAMAGED, IT IS POSSIBLE THAT THE OXYGEN GENERATOR WILL NOT FIRE.

CAUTION: DO NOT TRY TO REMOVE THE FIRING MECHANISM FROM THE OXYGEN GENERATOR. IT CANNOT BE ASSEMBLED AGAIN.

(2) Put the oxygen generator [42] in its position in the heat shield assembly [47] cushion clamps.

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)

(a) Make sure that the safety pin, release pin and the firing pin do not touch the oxygen box.

SUBTASK 35-22-11-410-012-001

(3) Put the heat shield assembly and oxygen generator in their position in the oxygen box [41].

SUBTASK 35-22-11-410-011-001

(4) Install the washers [44] and screws [45] that attach the heat shield assembly and oxygen generator to the oxygen box.

SUBTASK 35-22-11-420-006-001

(5) Connect the oxygen mask supply lines to oxygen generator manifold [46] at the oxygen generator [42].

NOTE: Make sure the oxygen supply lines are tightly connected to the manifold.

SUBTASK 35-22-11-440-006-001

(6) Do this task: Oxygen Generator Activation, TASK 35-22-11-400-811-001.

END OF TASK

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OXYGEN MASK DOOR LATCH ACTUATOR - REMOVAL/INSTALLATION

1. General

A. This procedure has these tasks:

(1) PSU Door Latch Actuator Removal

(2) PSU Door Latch Actuator Installation

(3) ASU Door Latch Actuator Removal

(4) ASU Door Latch Actuator Installation

(5) LSU Door Latch Actuator Removal

(6) LSU Door Latch Actuator Installation.

B. The door latch actuator is a component part of the oxygen box. Oxygen boxes are in the passenger cabin in each of these LRUs:

(1) Passenger Service Unit (PSU)

(2) Attendant Service Unit (ASU)

(3) Lavatory Service Unit (LSU).

TASK 35-22-21-000-801-001

2. PSU Door Latch Actuator Removal

(Figure 401)

A. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-11-000-804-001	PSU Oxygen Generator Removal (P/B 401)
35-22-11-000-811-001	Oxygen Generator Deactivation (P/B 201)

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 35-22-21-910-001-001

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

SUBTASK 35-22-21-860-001-001

(2) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT
F	9	C00784	OXYGEN PASS RIGHT

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(Continued)

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	10	C00783	OXYGEN PASS LEFT

SUBTASK 35-22-21-010-001-001

(3) Go to the applicable PSU in the passenger cabin.

SUBTASK 35-22-21-010-002-001

(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 35-22-21-040-002-001

WARNING: MAKE SURE A RELEASE PIN OR A SAFETY PIN (WITH A WARNING FLAG) IS INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF A PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F (230°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (APPROXIMATELY ONE HOUR).

(5) Do this task: Oxygen Generator Deactivation, TASK 35-22-11-000-811-001.

SUBTASK 35-22-21-010-011

(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 35-22-21-020-007

(7) Remove the oxygen generator to get access to the door latch actuator. Do the PSU Oxygen Generator Removal, TASK 35-22-11-000-804-001.

SUBTASK 35-22-21-020-008

(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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PASSENGER COMPARTMENT
(EXAMPLE)

PASSENGER SERVICE UNIT (PSU)

A

1955722 S0000373120_V2

PSU Door Latch Actuator Installation
Figure 401/35-22-21-990-801-001 (Sheet 1 of 2)

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OXYGEN MASK BOX

B

1955724 S0000373121_V2

PSU Door Latch Actuator Installation
Figure 401/35-22-21-990-801-001 (Sheet 2 of 2)

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TASK 35-22-21-400-801-001

3. PSU Door Latch Actuator Installation

(Figure 401)

A. References

Reference	Title
25-23-61	PASSENGER SERVICE UNIT (PSU)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-00-700-802	Passenger Oxygen System - Manual Deploy Functional Test (P/B 501)
35-22-11-400-804-001	PSU Oxygen Generator Installation (P/B 401)
35-22-11-400-811-001	Oxygen Generator Activation (P/B 201)
35-22-31-000-804-001	ASU and LSU Oxygen Mask Packing (P/B 201)
35-22-31-440-801	PSU Oxygen Mask Packing (P/B 201)
WDM 35-21-41	Wiring Diagram Manual

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	35-22-21-03V-040	AKS 021-024
		35-22-21-03V-080	AKS 021-024
		35-22-21-03W-040	AKS 021-024
		35-22-21-03W-080	AKS 021-024
		35-22-21-03X-040	AKS 021-024
		35-22-21-03X-080	AKS 021-024
		35-22-21-21-050	AKS 001-006, 009, 010, 013, 015-018, 020-025, 027
		35-22-21-25-120	AKS 001-020, 025-999
		35-22-21-64T-015	AKS 001-007
		35-22-21-64T-020	AKS 001-007

E. Location Zones

Zone	Area
200	Upper Half of Fuselage

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F. Procedure

SUBTASK 35-22-21-910-002-001

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

SUBTASK 35-22-21-860-002-001

WARNING: MAKE SURE A RELEASE PIN OR A SAFETY PIN (WITH A WARNING FLAG) IS INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF A PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F (230°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (APPROXIMATELY ONE HOUR).

(2) Make sure the safety pin is installed in the oxygen generator.

SUBTASK 35-22-21-420-009

(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 35-22-21-420-002-001

(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 35-22-21-420-008

(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 35-22-21-410-011

(6) Do the PSU Oxygen Generator Installation, TASK 35-22-11-400-804-001.

SUBTASK 35-22-21-440-002

(7) Do the TASK 35-22-31-440-801 or TASK 35-22-31-000-804-001 to stow the oxygen masks.

SUBTASK 35-22-21-860-003-001

WARNING: MAKE SURE TO REMOVE THE SAFETY PIN FROM THE FIRING PIN ON THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL NOT FIRE IN AN EMERGENCY IF THE SAFETY PIN IS INSTALLED.

(8) Do this task: Oxygen Generator Activation, TASK 35-22-11-400-811-001.

SUBTASK 35-22-21-410-001-001

(9) To close the PSU, push the PSU panel up to engage the cam latches (PASSENGER SERVICE UNIT (PSU), SUBJECT 25-23-61).

NOTE: The latches will generally make a "click" sound when they fully engage.

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SUBTASK 35-22-21-860-004-001

(10) 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 35-22-21-410-002-001

(11) Do this task: Passenger Oxygen System - Manual Deploy Functional Test, TASK 35-22-00-700-802.

END OF TASK

TASK 35-22-21-000-802-001

4. ASU Door Latch Actuator Removal

(Figure 402)

A. References

Reference	Title
25-23-13-000-801	Attendant/Lavatory Service Unit - Removal (P/B 401)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-11-000-811-001	Oxygen Generator Deactivation (P/B 201)

B. Procedure

SUBTASK 35-22-21-910-003-001

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

SUBTASK 35-22-21-860-005-001

(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 35-22-21-010-003-001

(3) Go to the applicable attendant service unit (ASU) located above the front and rear passenger exit doors.

SUBTASK 35-22-21-010-004-001

(4) Do this task: Attendant/Lavatory Service Unit - Removal, TASK 25-23-13-000-801.

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SUBTASK 35-22-21-040-003-001

WARNING: MAKE SURE A RELEASE PIN OR A SAFETY PIN (WITH A WARNING FLAG) IS INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF A PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F (230°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (APPROXIMATELY ONE HOUR).

(5) Do this task: Oxygen Generator Deactivation, TASK 35-22-11-000-811-001.

SUBTASK 35-22-21-020-003-001

(6) Do these steps to remove the door latch actuator [22] from the removed oxygen box.

(a) Remove the screw [23] and the washer [24] (2 locations) that attach the door latch actuator [22] to the test stop assembly.

1) Keep the screws [23] and the washers [24] for the installation.

(b) Disconnect the door latch actuator electrical harness.

(c) Remove the door latch actuator [22].

——— END OF TASK ———

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ATTENDANT SERVICE UNIT (ASU)
(EXAMPLE)

F79242 S0006577787_V2

ASU Door Latch Actuator Installation
Figure 402/35-22-21-990-802-001 (Sheet 1 of 2)

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ATTENDANT SERVICE UNIT (ASU)
(EXAMPLE)

OXYGEN BOX

A

D88973 S0000166054_V2

ASU Door Latch Actuator Installation
Figure 402/35-22-21-990-802-001 (Sheet 2 of 2)

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TASK 35-22-21-400-802-001

5. ASU Door Latch Actuator Installation

(Figure 402)

A. References

Reference	Title
25-23-13-400-801	Attendant/Lavatory Service Unit - Installation (P/B 401)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-00-700-802	Passenger Oxygen System - Manual Deploy Functional Test (P/B 501)
35-22-11-400-811-001	Oxygen Generator Activation (P/B 201)

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
22	Door latch actuator	35-22-21-21-050	AKS 001-006, 009, 010, 013, 015-018, 020-025, 027
		35-22-21-25-120	AKS 001-020, 025-999
		35-22-21-95-095	AKS 001-020, 025-999

C. Procedure

SUBTASK 35-22-21-910-004-001

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

SUBTASK 35-22-21-860-006-001

WARNING: MAKE SURE A RELEASE PIN OR A SAFETY PIN (WITH A WARNING FLAG) IS INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF A PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F (230°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (APPROXIMATELY ONE HOUR).

(2) Make sure the safety pin is installed in the oxygen generator.

SUBTASK 35-22-21-420-003-001

(3) Do these steps to install the door latch actuator [22]:

(a) Put the door latch actuator [22] in position on the test stop assembly.

(b) Install the washers [24] and the screws [23] (2 locations).

(c) Connect the door latch actuator electrical harness.

SUBTASK 35-22-21-410-003-001

(4) Do this task: Attendant/Lavatory Service Unit - Installation, TASK 25-23-13-400-801.

SUBTASK 35-22-21-860-007-001

WARNING: MAKE SURE TO REMOVE THE SAFETY PIN FROM THE FIRING PIN ON THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL NOT FIRE IN AN EMERGENCY IF THE SAFETY PIN IS INSTALLED.

(5) Do this task: Oxygen Generator Activation, TASK 35-22-11-400-811-001.

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SUBTASK 35-22-21-860-008-001

(6) 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 35-22-21-410-004-001

(7) Do this task: Passenger Oxygen System - Manual Deploy Functional Test, TASK 35-22-00-700-802.

END OF TASK

TASK 35-22-21-000-803-001

6. LSU Door Latch Actuator Removal

(Figure 403)

A. References

Reference	Title
25-23-13-000-801	Attendant/Lavatory Service Unit - Removal (P/B 401)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-11-000-811-001	Oxygen Generator Deactivation (P/B 201)
35-22-51-040-801	Oxygen Cylinder (CDS) Deactivation (P/B 201)

B. Procedure

SUBTASK 35-22-21-910-005-001

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

SUBTASK 35-22-21-860-009-001

(2) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

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 35-22-21-010-005-001

(3) Go to the applicable lavatory service unit (LSU) located in the ceiling of each lavatory.

SUBTASK 35-22-21-010-006-001

(4) Do this task: Attendant/Lavatory Service Unit - Removal, TASK 25-23-13-000-801.

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AKS 001-006

SUBTASK 35-22-21-040-004-001

WARNING: MAKE SURE A RELEASE PIN OR A SAFETY PIN (WITH A WARNING FLAG) IS INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF A PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F (230°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (APPROXIMATELY ONE HOUR).

(5) Do this task: Oxygen Generator Deactivation, TASK 35-22-11-000-811-001.

AKS 007-999

SUBTASK 35-22-21-040-008-001

(6) Do this task: Oxygen Cylinder (CDS) Deactivation, TASK 35-22-51-040-801.

AKS ALL

SUBTASK 35-22-21-020-004-001

(7) Do these steps to remove the door latch actuator [44] from the removed oxygen box [41].

(a) Remove the screw [42] and the washer [43] (2 locations) that attach the door latch actuator [44] to the test stop assembly.

1) Keep the screws [42] and the washers [43] for the installation.

(b) Disconnect the door latch actuator electrical harness.

(c) Remove the door latch actuator [44].

END OF TASK

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**LAVATORY SERVICE UNIT (LSU)
(AFT LSU IS SHOWN)
(EXAMPLE)**

H33268 S0006577792_V2

**LSU Door Latch Actuator Installation
Figure 403/35-22-21-990-803-001 (Sheet 1 of 2)**

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LAVATORY SERVICE UNIT (LSU)
(AFT LSU IS SHOWN)
(EXAMPLE)

OXYGEN BOX

A

D88978 S0000166055_V2

LSU Door Latch Actuator Installation
Figure 403/35-22-21-990-803-001 (Sheet 2 of 2)

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TASK 35-22-21-400-803-001

7. LSU Door Latch Actuator Installation

(Figure 403)

A. References

Reference	Title
25-23-13-400-801	Attendant/Lavatory Service Unit - Installation (P/B 401)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-00-700-802	Passenger Oxygen System - Manual Deploy Functional Test (P/B 501)
35-22-11-400-811-001	Oxygen Generator Activation (P/B 201)
35-22-51-440-801	Oxygen Cylinder (CDS) Activation (P/B 201)

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
44	Door latch actuator	35-22-21-03V-080	AKS 021-024
		35-22-21-03W-080	AKS 021-024
		35-22-21-03X-080	AKS 021-024

C. Procedure

SUBTASK 35-22-21-910-006-001

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

AKS 001-006

SUBTASK 35-22-21-860-010-001

WARNING: MAKE SURE A RELEASE PIN OR A SAFETY PIN (WITH A WARNING FLAG) IS INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF A PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F (230°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (APPROXIMATELY ONE HOUR).

(2) Make sure the safety pin is installed in the oxygen generator.

AKS 007-999

SUBTASK 35-22-21-480-001-001

(3) Make sure the safety pin is installed in the oxygen cylinder.

AKS ALL

SUBTASK 35-22-21-420-004-001

(4) Do these steps to install the door latch actuator [44]:

(a) Put the door latch actuator [44] in position on the test stop assembly.

(b) Install the washers [43] and the screws [42] (2 locations).

(c) Connect the door latch actuator electrical harness.

SUBTASK 35-22-21-410-005-001

(5) Do this task: Attendant/Lavatory Service Unit - Installation, TASK 25-23-13-400-801.

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AKS 001-006

SUBTASK 35-22-21-860-011-001

WARNING: MAKE SURE TO REMOVE THE SAFETY PIN FROM THE FIRING PIN ON THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL NOT FIRE IN AN EMERGENCY IF THE SAFETY PIN IS INSTALLED.

(6) Do this task: Oxygen Generator Activation, TASK 35-22-11-400-811-001.

AKS 007-999

SUBTASK 35-22-21-440-003-001

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.

(7) Do this task: Oxygen Cylinder (CDS) Activation, TASK 35-22-51-440-801.

AKS ALL

SUBTASK 35-22-21-860-012-001

(8) 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 35-22-21-410-006-001

(9) Do this task: Passenger Oxygen System - Manual Deploy Functional Test, TASK 35-22-00-700-802.

END OF TASK

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PASSENGER OXYGEN MASK - MAINTENANCE PRACTICES

1. General

A. This procedure contains scheduled maintenance task data.

B. This procedure contains these tasks:

(1) PSU Oxygen Mask Packing

(2) ASU and LSU Oxygen Packing.

C. The procedure for packing of the passenger oxygen mask can be used for all of the masks. This includes the oxygen masks in the passenger service units (PSUs), attendant service units (ASUs) and lavatory service units (LSUs).

D. The oxygen mask packing is usually done on a bench or a clean flat surface. Oxygen mask packing can also be done on the airplane. This procedure contains information on packing oxygen masks on the airplane.

E. Persons that do the mask packing must do it in a clean environment.

F. Before you do maintenance on an oxygen system component that contains an oxygen generator you must install a safety pin in the generator firing mechanism. The safety pin will let the generator be handled and stored. If the safety pin is not installed, the oxygen generator can fire.

AKS 007-999

G. 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.

AKS ALL

TASK 35-22-31-440-801

2. PSU Oxygen Mask Packing

A. References

Reference	Title
25-23-61-000-804	Passenger Service Unit - Removal (P/B 401)
25-23-61-400-804	Passenger Service Unit - Installation (P/B 401)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-11-000-811-001	Oxygen Generator Deactivation (P/B 201)
35-22-11-400-811-001	Oxygen Generator Activation (P/B 201)
35-22-31-000-801-001	PSU Oxygen Mask Removal (P/B 401)
35-22-31-400-801-001	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 35-22-31-910-014

(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.

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SUBTASK 35-22-31-010-030

(2) Open the applicable PSU(s) to get access to the oxygen generator and the oxygen mask box. (Passenger Service Unit - Removal, TASK 25-23-61-000-804).

SUBTASK 35-22-31-040-006

(3) Do the TASK 35-22-11-000-811-001.

SUBTASK 35-22-31-010-029

(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 35-22-31-420-016

(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 35-22-31-210-032

(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 35-22-31-210-033

(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 35-22-31-900-009

(8) If an oxygen mask or oxygen supply hose is not serviceable, do these tasks:

TASK 35-22-31-000-801-001

TASK 35-22-31-400-801-001

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D. PSU OXYGEN MASK PACKING

(Figure 201)

SUBTASK 35-22-31-420-017

(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 ±1 in. (25.4 ±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 35-22-31-210-034

(1) Make sure that the lanyard ring of each mask lanyard is fully installed to the generator release cable.

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SUBTASK 35-22-31-420-018

(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 35-22-31-420-019

(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 35-22-31-210-035

(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 35-22-31-410-010

(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 35-22-31-210-036

(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 35-22-31-440-004

(1) Do the Oxygen Generator Activation, TASK 35-22-11-400-811-001.

SUBTASK 35-22-31-410-011

(2) Close the Passenger Service Unit (Passenger Service Unit - Installation, TASK 25-23-61-400-804).

END OF TASK

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STEP 1

STEP 2

PREPARATION OF MASK ASSEMBLY

1957370 S0000373814_V2

Oxygen Mask Packing Procedure
Figure 201/35-22-31-990-813 (Sheet 1 of 4)

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STEP 3
MASK TANDEM 1

1 A TANDEM IS TWO MASKS PREPARED AS A ONE UNIT FOR STOWAGE IN THE OXYGEN BOX

1957376 S0000373815_V2

Oxygen Mask Packing Procedure
Figure 201/35-22-31-990-813 (Sheet 2 of 4)

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STEP 4

STEP 4

1957390 S0000373816_V2

Oxygen Mask Packing Procedure
Figure 201/35-22-31-990-813 (Sheet 3 of 4)

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STEP 5

2 COIL DIRECTION IS DEPENDENT ON THE POSITION OF THE MASK TANDEM IN THE OXYGEN BOX.

1977593 S0000373834_V4

Oxygen Mask Packing Procedure
Figure 201/35-22-31-990-813 (Sheet 4 of 4)

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PASSENGER COMPARTMENT (EXAMPLE)

PASSENGER SERVICE UNIT (PSU)

A

1977913 S0000382145_V2

PASSENGER SERVICE UNIT (PSU) OXYGEN MASK PACKING
Figure 202/35-22-31-990-814 (Sheet 1 of 3)

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OXYGEN MASK TANDEMS (TANDEM ONE)
(MASK BOX COVER AND OXYGEN GENERATOR NOT SHOWN)

B

1977972 S0000382146_V2

PASSENGER SERVICE UNIT (PSU) OXYGEN MASK PACKING
Figure 202/35-22-31-990-814 (Sheet 2 of 3)

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OXYGEN MASK TANDEMS (TANDEM ONE AND TWO)

C

1979083 S0000382147_V2

PASSENGER SERVICE UNIT (PSU) OXYGEN MASK PACKING
Figure 202/35-22-31-990-814 (Sheet 3 of 3)

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TASK 35-22-31-000-804-001

3. ASU and LSU Oxygen Mask Packing
(Figure 203, Figure 204, Figure 205)

A. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-11-000-811-001	Oxygen Generator Deactivation (P/B 201)
35-22-11-400-811-001	Oxygen Generator Activation (P/B 201)
35-22-31-000-802-001	ASU and LSU Oxygen Mask Removal (P/B 401)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Prepare to Pack the ASU and LSU Oxygen Masks

SUBTASK 35-22-31-910-007-001

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

SUBTASK 35-22-31-010-014-001

(2) Do these steps to open an ASU oxygen box (if it is necessary) (Figure 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 35-22-31-010-016-001

(3) Do these steps to open a LSU oxygen box (if it is necessary) (Figure 204).
   (a) Go to the applicable LSU, found in the ceiling of each lavatory.
   (b) Put a tool into the latch access hole.
   (c) Push up on the tool to operate the door latch.
   (d) Open the oxygen box door.
   (e) Let the oxygen masks fall.
   (f) Do not pull on the oxygen mask lanyard.
   NOTE: If you pull on the oxygen mask lanyard, the oxygen generator will fire.

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AKS 001-006 (Continued)

SUBTASK 35-22-31-040-003-001

WARNING: INSTALL A RELEASE PIN OR A SAFETY PIN WITH THE WARNING FLAG INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF YOU REMOVE THE RELEASE PIN AND THE SAFETY PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F (230°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (APPROXIMATELY ONE HOUR).

(4) Do this task: Oxygen Generator Deactivation, TASK 35-22-11-000-811-001.

SUBTASK 35-22-31-210-009-001

(5) Do a check of the applicable oxygen masks:

(a) Make sure the oxygen masks are not torn or damaged.

(b) Make sure the oxygen masks are clean and free from contamination such as:

1) dirt

2) grease

3) oil

4) unwanted material.

SUBTASK 35-22-31-210-010-001

(6) Do a check of the applicable oxygen supply hoses:

(a) Make sure the oxygen supply hoses are not torn or damaged.

(b) Make sure the oxygen supply hoses are soft and flexible.

(c) Make sure the color of the oxygen supply hoses have not deteriorated.

(d) Make sure each mask is held securely to the oxygen supply hose.

SUBTASK 35-22-31-900-004-001

(7) If an oxygen mask or oxygen supply hose is not serviceable, do this task: ASU and LSU Oxygen Mask Removal, TASK 35-22-31-000-802-001.

D. ASU and LSU Oxygen Mask Packing

SUBTASK 35-22-31-010-017-001

(1) Go to the applicable ASU or LSU in the passenger cabin.

SUBTASK 35-22-31-420-006-001

(2) Do these steps to fold an oxygen mask (Figure 205):

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:

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AKS 001-006 (Continued)

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.

SUBTASK 35-22-31-410-003-001

(3) Do these steps to install the ASU and LSU 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 facepiece is up (View B).

(d) ASU locations and AFT LSU locations, do these steps to install the masks in the oxygen box (Figure 203 and Figure 204):

1) Put the coiled oxygen mask in the oxygen box against the oxygen generator (open end of the facepiece against the oxygen generator).
2) Slide the oxygen mask toward the open side of the oxygen box (approximately 30 degrees).

WARNING: IF YOU PUSH THE OXYGEN MASKS TOO FAR INTO THE OXYGEN BOX, THE OXYGEN MASKS CAN GET CAUGHT BETWEEN THE OXYGEN GENERATOR AND THE OXYGEN BOX STRUCTURE. IF THE OXYGEN MASKS ARE CAUGHT AGAINST THE OXYGEN GENERATOR, THE MASKS WILL NOT DROP DURING AN EMERGENCY.

3) Make sure that the oxygen mask is free to drop straight down and out of the oxygen box.
4) Hold the oxygen mask in this position and do the previous steps again for the other oxygen mask.
5) Make sure the oxygen masks and cable routing will not keep the oxygen box door in the open position.

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AKS 001-006 (Continued)

a) If it is necessary move the oxygen masks.

(e) FORWARD LSU (Figure 204) (View A); Do these steps to install the masks in the oxygen box:

1) Put the coiled oxygen mask in the oxygen box (open end of the facepiece against the top surface of the oxygen box).

2) Position the oxygen mask with the reservoir bag away from the oxygen generator.

3) Make sure that the oxygen mask is free to drop straight down and out of the oxygen box.

4) Hold the oxygen mask in this position and do the previous steps again for the other oxygen mask.

5) Make sure the oxygen masks and cable routing will not keep the oxygen box door in the open position.

a) If it is necessary move the oxygen masks.

SUBTASK 35-22-31-420-007-001

(4) Do these steps to pack the streamer and streamer cord:

(a) Hold the oxygen masks in position.

(b) Fold the streamer lengthwise in segments approximately two inches long.

(c) Loosely coil the streamer cord lengthwise around the streamer.

(d) Continue to coil the streamer cord all the way to the oxygen mask.

(e) Put the coiled streamer on the bottom of the closed end of the facepiece.

(f) Hold the streamer and oxygen mask in position while you coil the other streamer.

(g) Make sure the coiled streamer is positioned to fall first when the oxygen box door is opened during an emergency.

NOTE: The weight of the streamer will help the oxygen mask and supply line fall out of the box during an emergency.

SUBTASK 35-22-31-210-011-001

(5) Do this task: Oxygen Generator Activation, TASK 35-22-11-400-811-001.

SUBTASK 35-22-31-210-013-001

(6) Do these steps to check the installation of the oxygen masks:

(a) Make sure all of the mask lanyard rings are attached to the release cable.

(b) Do a check of the release cable routing to make sure the release pin will pull away from the oxygen generator firing mechanism when the oxygen masks are deployed.

(c) Make sure the supply hoses are not bent too much or crimped.

(d) Make sure the mask lanyards are not wrapped around a hose, elastic band, end clip, streamer, or other object.

(e) Make sure that no part of the oxygen mask or the reservoir bag goes over the oxygen supply manifold or the release cable.

(f) Make sure the steamer and oxygen mask are free to fall when the door is opened during an emergency.

(g) Do this check (optional):

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AKS 001-006 (Continued)

1) Close the oxygen box door to within one half inch of being closed and then slightly open the door.
2) Make sure the oxygen masks partially fall down with the door to make sure the oxygen masks are free to fall.

SUBTASK 35-22-31-410-004-001

(7) Do these steps to close the oxygen box door:
   (a) Hold the oxygen box door.
   (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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1505045 S0000274657_V2

ASU Oxygen Mask Packing Procedure
Figure 203/35-22-31-990-804-001 (Sheet 1 of 4)

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OXYGEN MASK
(OXYGEN BOX INSTALLED)

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

1505006 S0000274655_V2

ASU Oxygen Mask Packing Procedure
Figure 203/35-22-31-990-804-001 (Sheet 2 of 4)

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ASU Oxygen Mask Packing Procedure
Figure 203/35-22-31-990-804-001 (Sheet 3 of 4)

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ASU Oxygen Mask Packing Procedure
Figure 203/35-22-31-990-804-001 (Sheet 4 of 4)

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LSU Oxygen Mask Packing Procedure
Figure 204/35-22-31-990-805-001 (Sheet 1 of 2)

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LSU Oxygen Mask Packing Procedure
Figure 204/35-22-31-990-805-001 (Sheet 2 of 2)

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STEP 1

STEP 2

PREPARATION OF MASK ASSEMBLY

G21365 S0006577819_V2

Oxygen Mask Packing Procedure
Figure 205/35-22-31-990-806-001 (Sheet 1 of 3)

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Oxygen Mask Packing Procedure
Figure 205/35-22-31-990-806-001 (Sheet 2 of 3)

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G21373 S0006577821_V2

Oxygen Mask Packing Procedure
Figure 205/35-22-31-990-806-001 (Sheet 3 of 3)

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TASK 35-22-31-420-801-001

4. ASU Oxygen Mask Packing

(Figure 206, Figure 207)

A. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-11-000-811-001	Oxygen Generator Deactivation (P/B 201)
35-22-11-400-811-001	Oxygen Generator Activation (P/B 201)
35-22-31-000-807-001	ASU Oxygen Mask Removal (P/B 401)
35-22-31-400-804-001	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 35-22-31-910-015-001

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

SUBTASK 35-22-31-010-031-001

(2) Do these steps to open an ASU oxygen box (if it is necessary) (Figure 206).

(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 35-22-31-040-007-001

WARNING: DO THE DEACTIVATION PROCEDURE FOR THE OXYGEN GENERATOR. ACCIDENTAL OPERATION OF THE OXYGEN GENERATOR CAN CAUSE INJURIES TO PERSONS OR DAMAGE TO EQUIPMENT.

(3) Do this task: Oxygen Generator Deactivation, TASK 35-22-11-000-811-001.

SUBTASK 35-22-31-210-037-001

(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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AKS 007-999 (Continued)

SUBTASK 35-22-31-210-038-001

(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 35-22-31-900-010-001

(6) If an oxygen mask or oxygen supply hose is not serviceable, do these tasks: .

ASU Oxygen Mask Removal, TASK 35-22-31-000-807-001

ASU Oxygen Mask Installation, TASK 35-22-31-400-804-001

D. ASU Oxygen Mask Packing

SUBTASK 35-22-31-800-001-001

(1) Go to the applicable ASU in the passenger cabin.

SUBTASK 35-22-31-410-012-001

(2) Do these steps to fold an oxygen mask (Figure 207):

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.

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AKS 007-999 (Continued)

9) If the mask has a streamer attached, do not fold the streamer and streamer cord until after you position the mask in the ASU or LSU.

SUBTASK 35-22-31-410-013-001

(3) Do these steps to install the ASU oxygen masks in the oxygen box (Figure 206).

(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).

AKS 021-024

3) FWD ASU; Put the coiled oxygen mask in the oxygen box (open end of the facepiece towards the oxygen generator at 90°arc (2 rad)).

4) Other ASU locations; Put the coiled oxygen mask in the oxygen box (open end of the facepiece against the top surface of the oxygen box).

AKS 007-999

WARNING: 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.

5) Make sure that the oxygen mask is free to drop straight down and out of the oxygen box.

6) Hold the oxygen mask in this position and do the previous steps again for the other oxygen mask.

7) 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 35-22-31-410-014-001

(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.

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AKS 007-999 (Continued)

(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 35-22-31-440-005-001

(5) Do this task: Oxygen Generator Activation, TASK 35-22-11-400-811-001.

SUBTASK 35-22-31-410-015-001

(6) Do these steps to check the installation of the oxygen masks:

(a) Make sure all of the mask lanyard rings are attached to the release cable.

(b) Do a check of the release cable routing to make sure the release pin will pull away from the oxygen generator firing mechanism when the oxygen masks are deployed.

(c) Make sure the supply hoses are not bent too much or crimped.

(d) Make sure the mask lanyards are not wrapped around a hose, elastic band, end clip, streamer, or other object.

(e) Make sure that no part of the oxygen mask or the reservoir bag goes over the oxygen supply manifold or the release cable.

(f) Make sure the 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 35-22-31-410-016-001

(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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1505045 S0000274657_V2

ASU Oxygen Mask Packing Procedure
Figure 206/35-22-31-990-815-001 (Sheet 1 of 7)

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OXYGEN MASK
(OXYGEN BOX INSTALLED)

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

1505006 S0000274655_V2

ASU Oxygen Mask Packing Procedure
Figure 206/35-22-31-990-815-001 (Sheet 2 of 7)

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D85644 S0000166056_V2

ASU Oxygen Mask Packing Procedure
Figure 206/35-22-31-990-815-001 (Sheet 3 of 7)

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H32846 S0006577809_V2

ASU Oxygen Mask Packing Procedure
Figure 206/35-22-31-990-815-001 (Sheet 4 of 7)

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D85698 S0000166059_V2

ASU Oxygen Mask Packing Procedure
Figure 206/35-22-31-990-815-001 (Sheet 5 of 7)

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ASU Oxygen Mask Packing Procedure
Figure 206/35-22-31-990-815-001 (Sheet 6 of 7)

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D85694 S0000166060_V2

ASU Oxygen Mask Packing Procedure
Figure 206/35-22-31-990-815-001 (Sheet 7 of 7)

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STEP 1

STEP 2

PREPARATION OF MASK ASSEMBLY

G21365 S0006577819_V2

Oxygen Mask Packing Procedure
Figure 207/35-22-31-990-823-001 (Sheet 1 of 3)

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1 INSTALLATIONS WITH OXYGEN MASK STREAMERS

G21373 S0006577821_V2

Oxygen Mask Packing Procedure
Figure 207/35-22-31-990-823-001 (Sheet 2 of 3)

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Oxygen Mask Packing Procedure
Figure 207/35-22-31-990-823-001 (Sheet 3 of 3)

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TASK 35-22-31-420-802-001

5. **LSU Oxygen Mask Packing**

(LSU Oxygen Mask Packing, TASK 35-22-31-420-802-001, Figure 209)

A. **References**

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-31-000-808-001	LSU Oxygen Mask Removal (P/B 401)
35-22-31-400-805-001	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 to Pack the LSU Oxygen Masks**

SUBTASK 35-22-31-910-016-001

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

SUBTASK 35-22-31-010-032-001

(2) Do these steps to open a 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 you pull on the oxygen mask lanyard, the oxygen cylinder will release oxygen.

SUBTASK 35-22-31-040-008-001

(3) Do this task: Oxygen Cylinder (CDS) Deactivation, TASK 35-22-51-040-801.

SUBTASK 35-22-31-210-039-001

(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.

SUBTASK 35-22-31-210-040-001

(5) Do a check of the applicable oxygen supply hoses:

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(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 35-22-31-900-011-001

(6) If an oxygen mask or oxygen supply hose is not serviceable, do these tasks:
LSU Oxygen Mask Removal, TASK 35-22-31-000-808-001
LSU Oxygen Mask Installation, TASK 35-22-31-400-805-001

D. LSU Oxygen Mask Packing

SUBTASK 35-22-31-410-017-001

(1) Go to the applicable LSU in the passenger cabin.

SUBTASK 35-22-31-420-020-001

(2) Do these steps to fold an oxygen mask (Figure 209):

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 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 LSU.

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AKS 007-999 (Continued)

SUBTASK 35-22-31-420-021-001

(3) Do these steps to install the LSU oxygen masks in the oxygen box (Figure 208).

(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) AFT LSU locations, 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 against the top surface of the oxygen box).

WARNING: DO NOT YOU PUSH THE OXYGEN MASKS TOO FAR INTO THE OXYGEN BOX. THE OXYGEN MASKS CAN CATCH BETWEEN THE OXYGEN CYLINDER AND THE OXYGEN BOX STRUCTURE. IF THEY CATCH AGAINST THE OXYGEN CYLINDER, THEY WILL NOT COME DOWN DURING AN EMERGENCY. THIS WILL CAUSE INJURIES TO PASSENGERS.

2) Make sure that the oxygen mask is free to drop straight down and out of the oxygen box.

3) Hold the oxygen mask in this position and do the previous steps again for the other oxygen mask.

4) Make sure 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.

(e) FORWARD LSU location, do these steps to install the masks in the oxygen box:

AKS 021-024

1) Put the coiled oxygen mask in the oxygen box (open end of the face piece towards the aft end of the oxygen box).

AKS 007-999

2) Put the coiled oxygen mask in the oxygen box (open end of the face piece towards the top of the oxygen box).

3) Position the oxygen mask with the reservoir bag away from the oxygen cylinder.

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 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 35-22-31-420-022-001

(4) Do these steps to pack the streamer and streamer cord:

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AKS 007-999 (Continued)

(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 face piece.

(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 35-22-31-440-006-001

(5) Do this task: Oxygen Cylinder (CDS) Activation, TASK 35-22-51-440-801.

SUBTASK 35-22-31-210-041-001

(6) Do these steps to check the installation of the oxygen masks:

(a) Make sure all of the mask lanyard rings are attached to the lanyard assembly.

(b) Do a check of the lanyard assembly routing to make sure the lanyard assembly release pin will pull away from the oxygen cylinder actuator assembly 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 35-22-31-410-018-001

(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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LSU Oxygen Mask Packing Procedure
Figure 208/35-22-31-990-816-001 (Sheet 1 of 3)

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LSU Oxygen Mask Packing Procedure
Figure 208/35-22-31-990-816-001 (Sheet 2 of 3)

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LSU Oxygen Mask Packing Procedure
Figure 208/35-22-31-990-816-001 (Sheet 3 of 3)

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STEP 1

STEP 2

PREPARATION OF MASK ASSEMBLY

G21365 S0006577819_V2

Oxygen Mask Packing Procedure
Figure 209/35-22-31-990-824-001 (Sheet 1 of 3)

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Oxygen Mask Packing Procedure
Figure 209/35-22-31-990-824-001 (Sheet 2 of 3)

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1 INSTALLATIONS WITH OXYGEN MASK STREAMERS

G21373 S0006577821_V2

Oxygen Mask Packing Procedure
Figure 209/35-22-31-990-824-001 (Sheet 3 of 3)

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TASK 35-22-31-210-801-001

6. Visual Inspection of the Oxygen Mask

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
25-23-61	PASSENGER SERVICE UNIT (PSU)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-31-000-801-001	PSU Oxygen Mask Removal (P/B 401)
35-22-31-000-802-001	ASU and LSU Oxygen Mask Removal (P/B 401)
35-22-31-000-807-001	ASU Oxygen Mask Removal (P/B 401)
35-22-31-000-808-001	LSU Oxygen Mask Removal (P/B 401)
35-22-31-400-801-001	PSU Oxygen Mask Installation (P/B 401)
35-22-31-400-802-001	ASU and LSU Oxygen Mask Installation (P/B 401)
35-22-31-400-804-001	ASU Oxygen Mask Installation (P/B 401)
35-22-31-400-805-001	LSU Oxygen Mask Installation (P/B 401)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Prepare to Inspect the Oxygen Mask

SUBTASK 35-22-31-910-008-001

(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 35-22-31-010-018-001

(2) Get access to the oxygen masks as follows:

(a) To lower the applicable PSU for the passenger oxygen masks, do this task: (PASSENGER SERVICE UNIT (PSU), SUBJECT 25-23-61).

(b) For the attendant or lavatory oxygen masks, do these steps:

1) Go to the applicable ASU or LSU.

2) Put a tool into the latch access hole.

3) Push on the tool to operate the door latch.

4) Open the oxygen box door.

5) Let the oxygen masks fall.

D. Inspect the Oxygen Mask

SUBTASK 35-22-31-210-014-001

(1) Do a visual check of the general condition of the oxygen masks.

(a) Make sure that the oxygen masks are not damaged as follows:

1) Torn parts

2) Broken parts

3) Frayed parts

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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 35-22-31-210-015-001

(2) Do a visual check 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 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 35-22-31-210-028-001

(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.

1) For the passenger oxygen masks, replace the PSU oxygen masks. These are the tasks:

PSU Oxygen Mask Removal, TASK 35-22-31-000-801-001,

PSU Oxygen Mask Installation, TASK 35-22-31-400-801-001.

2) For the attendant or lavatory oxygen masks, replace the ASU or LSU oxygen masks. These are the tasks:

ASU and LSU Oxygen Mask Removal, TASK 35-22-31-000-802-001 or ASU Oxygen Mask Removal, TASK 35-22-31-000-807-001 or LSU Oxygen Mask Removal, TASK 35-22-31-000-808-001,

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ASU and LSU Oxygen Mask Installation, TASK 35-22-31-400-802-001 or ASU Oxygen Mask Installation, TASK 35-22-31-400-804-001 or LSU Oxygen Mask Installation, TASK 35-22-31-400-805-001.

SUBTASK 35-22-31-210-016-001

(4) Make sure that the lanyards are attached to the release cable.

SUBTASK 35-22-31-900-005-001

(5) If the oxygen mask or oxygen supply hose is not serviceable, replace them when necessary.

(a) For the passenger oxygen masks, replace the PSU oxygen masks. These are the tasks:

PSU Oxygen Mask Removal, TASK 35-22-31-000-801-001,

PSU Oxygen Mask Installation, TASK 35-22-31-400-801-001.

(b) For the attendant or lavatory oxygen masks, replace the ASU or LSU oxygen masks. These are the tasks:

ASU and LSU Oxygen Mask Removal, TASK 35-22-31-000-802-001 or ASU Oxygen Mask Removal, TASK 35-22-31-000-807-001 or LSU Oxygen Mask Removal, TASK 35-22-31-000-808-001,

ASU and LSU Oxygen Mask Installation, TASK 35-22-31-400-802-001 or ASU Oxygen Mask Installation, TASK 35-22-31-400-804-001 or LSU Oxygen Mask Installation, TASK 35-22-31-400-805-001.

SUBTASK 35-22-31-530-001-001

(6) To pack the oxygen mask for the ASU and LSU oxygen box, do this task: ASU and LSU Oxygen Mask Packing, TASK 35-22-31-000-804-001 or ASU Oxygen Mask Packing, TASK 35-22-31-420-801-001 or LSU Oxygen Mask Packing, TASK 35-22-31-420-802-001.

(7) To pack the oxygen mask for the PSU oxygen box, do this task: PSU Oxygen Mask Packing, TASK 35-22-31-440-801.

SUBTASK 35-22-31-410-005-001

(8) Close the applicable service unit access.

(a) To close the PSU for the passenger oxygen masks, (PASSENGER SERVICE UNIT (PSU), SUBJECT 25-23-61).

(b) For the attendant or lavatory oxygen masks, do these steps to close the ASU or LSU oxygen box door:

1) Hold the oxygen box door.

2) Remove the masking tape from the oxygen box door (if installed).

3) Push the reset lever on the latch actuator plunger to set the actuator again.

4) Close and latch the oxygen box door.

5) Do a visual check of the door alignment to make sure the oxygen equipment is not caught in the oxygen box door or in the actuator.

END OF TASK

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PASSENGER OXYGEN MASK - REMOVAL/INSTALLATION

1. **General**

A. This procedure contains these tasks:

(1) PSU Oxygen Mask Removal

(2) PSU Oxygen Mask Installation

AKS 001-006

(3) ASU/LSU Oxygen Mask Removal

(4) ASU/LSU Oxygen Mask Installation.

AKS 007-999

(5) ASU Oxygen Mask Removal

(6) ASU Oxygen Mask Installation.

(7) LSU Oxygen Mask Removal

(8) LSU Oxygen Mask Installation.

AKS ALL

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).

AKS 001-006

C. The removal and installation of the passenger oxygen masks is similar for the ASU and LSU locations.

AKS ALL

D. Before you do maintenance on an oxygen system component that contains an oxygen generator you must install a safety pin in the generator firing mechanism. The safety pin will let the generator to be handled. If the safety pin is not installed, the oxygen generator can fire.

AKS 007-999

E. 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.

AKS ALL

TASK 35-22-31-000-801-001

2. **PSU Oxygen Mask Removal**

(Figure 401)

A. References

Reference	Title
25-23-61	PASSENGER SERVICE UNIT (PSU)

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(Continued)

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-11-000-811-001	Oxygen Generator Deactivation (P/B 201)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Remove the PSU Oxygen Masks

SUBTASK 35-22-31-910-001-001

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

SUBTASK 35-22-31-860-001-001

(2) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

SUBTASK 35-22-31-010-002-001

(3) To lower the PSU, do this task: PASSENGER SERVICE UNIT (PSU), SUBJECT 25-23-61.

SUBTASK 35-22-31-010-003-001

WARNING: INSTALL A RELEASE PIN OR A SAFETY PIN WITH THE WARNING FLAG INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF YOU REMOVE THE RELEASE PIN AND THE SAFETY PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F (230°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (WAIT APPROXIMATELY ONE HOUR).

(4) Do this task: Oxygen Generator Deactivation, TASK 35-22-11-000-811-001.

SUBTASK 35-22-31-010-004-001

(5) UNDERBIN PSU's

Do these steps to remove the oxygen masks [6] from the mask box [9]:

(a) Remove the oxygen mask box cover [1] from the mask box [9].

1) Keep the mask box cover [1] for the installation.

(b) Pull the oxygen masks [6] with the oxygen supply lines [7] and lanyards [5] up through the top of the mask box [9].

(c) Let the oxygen masks [6] hang from the top of the PSU.

(d) Make sure that the safety pin and flag [13] pin is fully installed to the generator firing mechanism [15]. Then remove the release cable pin [14] from the oxygen generator.

(e) Remove the lanyard rings [3] from the end of the release cable [2].

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(f) 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.

(g) Remove the oxygen masks [6] from the airplane.

SUBTASK 35-22-31-970-001-001

(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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PASSENGER COMPARTMENT
(EXAMPLE)

PASSENGER SERVICE UNIT (PSU)

A

1976691 S0000381012_V2

PSU Oxygen Mask Installation
Figure 401/35-22-31-990-801-001 (Sheet 1 of 3)

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MASK BOX
(0XYGEN GENERATOR NOT SHOWN)

B

1977093 S0000381013_V2

PSU Oxygen Mask Installation
Figure 401/35-22-31-990-801-001 (Sheet 2 of 3)

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OXYGEN GENERATOR (EXAMPLE)

C

1976715 S0000381010_V2

PSU Oxygen Mask Installation
Figure 401/35-22-31-990-801-001 (Sheet 3 of 3)

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TASK 35-22-31-400-801-001

3. PSU Oxygen Mask Installation

Figure 401

A. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-11-400-811-001	Oxygen Generator Activation (P/B 201)
35-22-31-000-804-001	ASU and LSU Oxygen Mask Packing (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	Mask	35-22-31-21-090	AKS 001-006, 009, 010, 013, 015-018, 020-025, 027
		35-22-31-26L-045	AKS 001-006
		35-22-31-26M-045	AKS 001-006
		35-22-31-26N-045	AKS 001-006
		35-22-31-28-045	AKS 001-020, 025-999
		35-22-31-33-095	AKS 007, 008, 011, 012, 014, 019, 026, 028-999
		35-22-31-63U-015	AKS 001-007
		35-22-31-95-095	AKS 001-020, 025-999
		35-22-31-95A-065	AKS 021-024

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Procedure

SUBTASK 35-22-31-910-002-001

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

SUBTASK 35-22-31-210-001-001

(2) Do a check of the replacement oxygen masks [6]:

(a) Make sure the oxygen masks [6] are not torn or damaged.

(b) Make sure the oxygen masks [6] are clean and free from contamination such as:

1) Dirt

2) Grease

3) Oil

4) Unwanted material.

(c) Make sure the elastic straps are held securely to the oxygen masks [6].

SUBTASK 35-22-31-210-002-001

(3) Do a check of the oxygen supply lines [7] on the replacement oxygen masks [6]:

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(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 35-22-31-900-001-001

(4) If an oxygen mask or oxygen supply line is not serviceable, replace the oxygen mask [6].

SUBTASK 35-22-31-420-002-001

(5) Do this task: (PSU Oxygen Mask Packing, TASK 35-22-31-440-801 or ASU and LSU Oxygen Mask Packing, TASK 35-22-31-000-804-001).

SUBTASK 35-22-31-420-014

(6) UNDERBIN PSU's

Do these steps to install the oxygen masks [6] in the PSU (Figure 401):

(a) Put the oxygen masks [6] adjacent to the mask box [9] box.

(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 35-22-31-420-015

(7) Do the applicable oxygen mask packing Task:

(TASK 35-22-31-440-801 or TASK 35-22-31-000-804-001).

SUBTASK 35-22-31-440-003

(8) Do the (Oxygen Generator Activation, TASK 35-22-11-400-811-001.)

SUBTASK 35-22-31-860-002-001

(9) Make sure that these circuit breakers are closed:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

SUBTASK 35-22-31-970-002-001

(10) Remove the report from the airplane logbook that states that the PSU oxygen masks have been removed.

END OF TASK

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TASK 35-22-31-000-802-001

4. ASU and LSU Oxygen Mask Removal

(Figure 402)

A. General

(1) The ASU and LSU oxygen masks are found above the attendant seats and in each of the lavatories.

(2) The installation and removal of the oxygen masks from the ASU and LSU is similar. Figure 402 shows the forward ASU as an example.

B. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-11-000-811-001	Oxygen Generator Deactivation (P/B 201)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Remove the ASU and LSU Oxygen Masks

SUBTASK 35-22-31-910-003-001

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

SUBTASK 35-22-31-860-003-001

(2) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

SUBTASK 35-22-31-010-005-001

(3) Go to the applicable ASU or LSU in the passenger compartment.

NOTE: Figure 402 shows the forward ASU oxygen mask removal. The removal and installation of the oxygen masks for the ASUs and LSUs are similar.

SUBTASK 35-22-31-010-006-001

(4) Do these steps to open the ASU or LSU oxygen box door [22]:

(a) Go to the applicable ASU or LSU.

(b) Put the flat tool [23] in the door edge gap.

(c) Push the flat tool [23] up against the oxygen box door latch [24].

(d) Open the oxygen box door [22].

(e) Let the oxygen mask assemblies [28] or oxygen mask assemblies [30] to fall.

(f) Do not pull on the oxygen mask assemblies [28] or oxygen mask assemblies [30].

NOTE: If you pull on the oxygen masks, the oxygen generator [25] will fire.

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AKS 001-006 (Continued)

SUBTASK 35-22-31-010-007-001

WARNING: INSTALL A RELEASE PIN OR A SAFETY PIN WITH THE WARNING FLAG INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF YOU REMOVE THE RELEASE PIN AND THE SAFETY PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F (230°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (WAIT APPROXIMATELY ONE HOUR).

(5) To deactivate the oxygen generator, do this task: Oxygen Generator Deactivation, TASK 35-22-11-000-811-001.

SUBTASK 35-22-31-010-008-001

(6) Do these steps to remove the oxygen mask assemblies [28] or oxygen mask assemblies [30] from the mask box [21]:

(a) Make sure the safety pin [29] is installed in the oxygen generator [25].

(b) Carefully remove the release pin [26] from the oxygen generator [25] (View C).

(c) Remove the lanyard rings [27] from the release pin [26].

(d) Remove the oxygen supply lines [32] from the adjustment clamp [31] (View D).

(e) Disconnect the oxygen supply lines [32] from the oxygen generator manifold.

(f) Remove the oxygen mask assemblies [28] or oxygen mask assemblies [30] from the airplane.

SUBTASK 35-22-31-970-003-001

(7) Make a report in the airplane logbook that states that one or more ASU or LSU oxygen masks have been removed and must be installed before the airplane is released for flight.

END OF TASK

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FORWARD ATTENDANT SERVICE UNIT (EXAMPLE)

B 1

1 FORWARD ASU SHOWN AS AN EXAMPLE. ALL OF THE ATTENDANT AND LAVATORY SERVICE UNITS ARE EQUIVALENT.

F95593 S0006577837_V2

ASU/LSU Oxygen Mask Installation
Figure 402/35-22-31-990-802-001 (Sheet 1 of 3)

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ASU/LSU Oxygen Mask Installation
Figure 402/35-22-31-990-802-001 (Sheet 2 of 3)

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SUPPLY LINE MANIFOLD CONNECTION

D

F96978 S0006577840_V2

ASU/LSU Oxygen Mask Installation
Figure 402/35-22-31-990-802-001 (Sheet 3 of 3)

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AKS 001-006 (Continued)

TASK 35-22-31-400-802-001

5. ASU and LSU Oxygen Mask Installation

NOTE: See Figure 402.

A. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-31-000-804-001	ASU and LSU Oxygen Mask Packing (P/B 201)

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
28	Mask assembly	35-22-31-21-090	AKS 001-006
		35-22-31-26L-045	AKS 001-006
		35-22-31-26M-045	AKS 001-006
		35-22-31-26N-045	AKS 001-006
		35-22-31-28-045	AKS 001-006
		35-22-31-63U-015	AKS 001-006
30	Mask assembly	35-22-31-26L-045	AKS 001-006
		35-22-31-26M-045	AKS 001-006
		35-22-31-26N-045	AKS 001-006
		35-22-31-28-045	AKS 001-006

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Procedure

SUBTASK 35-22-31-910-004-001

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

SUBTASK 35-22-31-210-003-001

(2) Do a check of the replacement oxygen mask assemblies [28] or oxygen mask assemblies [30]:

(a) Make sure the oxygen mask assemblies [28] or oxygen mask assemblies [30] are not torn or damaged.

(b) Make sure the oxygen mask assemblies [28] or oxygen mask assemblies [30] are clean and free from contamination such as:

1) dirt

2) grease

3) oil

4) unwanted material.

(c) Make sure the elastic straps are held securely to the oxygen mask assemblies [28] or oxygen mask assemblies [30].

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AKS 001-006 (Continued)

SUBTASK 35-22-31-210-004-001

(3) Do a check of the oxygen supply lines [32] on the replacement oxygen mask assemblies [28] or oxygen mask assemblies [30].

(a) Make sure the oxygen supply lines are not torn or damaged.

(b) Make sure the oxygen supply lines are soft and flexible.

(c) Make sure the color of the oxygen supply lines have not deteriorated.

(d) Make sure each oxygen mask is held securely to the oxygen supply line.

SUBTASK 35-22-31-900-002-001

(4) If an oxygen mask or oxygen supply line is not serviceable, replace the oxygen masks [28] or oxygen masks [30].

SUBTASK 35-22-31-420-003-001

(5) Do these steps to install the oxygen mask assemblies [28] or oxygen mask assemblies [30] to the ASU or LSU oxygen box [21]:

(a) Put the oxygen mask assemblies [28] or oxygen mask assemblies [30] in their positions.

(b) Attach the oxygen supply line [32] to the oxygen manifold on the oxygen generator [25] (View C).

(c) Make sure the unused ports on the oxygen generator manifold are plugged.

(d) Do these steps to attach the oxygen supply line [32] through the adjustment clamp [31]:

1) Tighten the adjustment clamp [31] to make sure the oxygen supply line [32] does not slip.

2) Make sure the adjustment clamp [31] does not crimp the oxygen supply line [32].

(e) Attach the lanyard rings [27] to the release cable [26].

(f) Carefully attach the release cable [26] to the firing mechanism on the oxygen generator [25].

SUBTASK 35-22-31-420-004-001

(6) Do this task: ASU and LSU Oxygen Mask Packing, TASK 35-22-31-000-804-001.

SUBTASK 35-22-31-860-004-001

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

SUBTASK 35-22-31-970-004-001

(8) Remove the report from the airplane logbook that states that the ASU/LSU oxygen mask(s) have been removed.

END OF TASK

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TASK 35-22-31-000-807-001

6. ASU Oxygen Mask Removal

(Figure 403)

A. General

(1) The ASU oxygen masks are found above the attendant seats .

B. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-11-000-811-001	Oxygen Generator Deactivation (P/B 201)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Remove the ASU Oxygen Masks

SUBTASK 35-22-31-910-019-001

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

SUBTASK 35-22-31-860-007-001

(2) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

SUBTASK 35-22-31-010-035-001

(3) Go to the applicable ASU in the passenger compartment.

SUBTASK 35-22-31-010-036-001

(4) Do these steps to open the ASU oxygen box door [22]:

(a) Put the flat tool [23] in the door edge gap.

(b) Push the flat tool [23] up against the oxygen box door latch [24].

(c) Open the oxygen box door [22].

(d) Let the oxygen mask assemblies [28] or oxygen mask assemblies [30] to fall.

(e) Do not pull on the oxygen mask assemblies [28] or oxygen mask assemblies [30].

NOTE: If you pull on the oxygen masks, the oxygen generator [25] will fire.

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AKS 007-999 (Continued)

SUBTASK 35-22-31-040-013-001

WARNING: 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 35-22-11-000-811-001.

SUBTASK 35-22-31-020-004-001

(6) Do these steps to remove the oxygen mask assemblies [28] or oxygen mask assemblies [30] from the mask box [21]:

(a) Make sure the safety pin [29] is installed in the oxygen generator [25].

(b) Carefully remove the release pin [26] from the oxygen generator [25] (View C).

(c) Remove the lanyard rings [27] from the release pin [26].

(d) Remove the oxygen supply lines [32] from the adjustment clamp [31] (View D).

(e) Disconnect the oxygen supply lines [32] from the oxygen generator manifold.

(f) Remove the oxygen mask assemblies [28] or oxygen mask assemblies [30] from the airplane.

SUBTASK 35-22-31-970-007-001

(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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FORWARD ATTENDANT SERVICE UNIT
(EXAMPLE)

B 1

1 FORWARD ASU SHOWN AS AN EXAMPLE.
ALL OF THE ATTENDANT AND LAVATORY
SERVICE UNITS ARE EQUIVALENT.

2337893 S0000532226_V2

ASU Oxygen Mask Installation
Figure 403/35-22-31-990-821-001 (Sheet 1 of 4)

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FORWARD ATTENDANT SERVICE UNIT
(EXAMPLE)

B 1

1 FORWARD ASU SHOWN AS AN EXAMPLE. ALL OF THE ATTENDANT AND LAVATORY SERVICE UNITS ARE EQUIVALENT.

2337901 S0000532227_V2

ASU Oxygen Mask Installation
Figure 403/35-22-31-990-821-001 (Sheet 2 of 4)

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ASU Oxygen Mask Installation
Figure 403/35-22-31-990-821-001 (Sheet 3 of 4)

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SUPPLY LINE MANIFOLD CONNECTION

D

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ASU Oxygen Mask Installation
Figure 403/35-22-31-990-821-001 (Sheet 4 of 4)

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TASK 35-22-31-400-804-001

7. ASU Oxygen Mask Installation

(Figure 403)

A. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-31-420-801-001	ASU Oxygen Mask Packing (P/B 201)

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
28	Mask assembly	35-22-31-21-090	AKS 009, 010, 013, 015-018, 020-025, 027
		35-22-31-28-045	AKS 007-020, 025-999
		35-22-31-33-095	AKS 007, 008, 011, 012, 014, 019, 026, 028-999
		35-22-31-63U-015	AKS 007
		35-22-31-95A-065	AKS 021-024
30	Mask assembly	35-22-31-28-045	AKS 007-020, 025-999

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Procedure

SUBTASK 35-22-31-910-020-001

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

SUBTASK 35-22-31-210-047-001

(2) Do a check of the replacement oxygen mask assemblies [28] or oxygen mask assemblies [30]:

(a) Make sure the oxygen mask assemblies [28] or oxygen mask assemblies [30] are not torn or damaged.

(b) Make sure the oxygen mask assemblies [28] or oxygen mask assemblies [30] are clean and free from contamination such as:

1) dirt

2) grease

3) oil

4) unwanted material.

(c) Make sure the elastic straps are held securely to the oxygen mask assemblies [28] or oxygen mask assemblies [30].

SUBTASK 35-22-31-210-048-001

(3) Do a check of the oxygen supply lines [32] on the replacement oxygen mask assemblies [28] or oxygen mask assemblies [30].

(a) Make sure the oxygen supply lines are not torn or damaged.

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(b) Make sure the oxygen supply lines are soft and flexible.

(c) Make sure the color of the oxygen supply lines have not deteriorated.

(d) Make sure each oxygen mask is held securely to the oxygen supply line.

SUBTASK 35-22-31-900-014-001

(4) If an oxygen mask or oxygen supply line is not serviceable, replace the oxygen masks [28] or oxygen masks [30].

SUBTASK 35-22-31-420-026-001

(5) Do these steps to install the oxygen mask assemblies [28] or oxygen mask assemblies [30] to the oxygen box [21]:

(a) Put the oxygen mask assemblies [28] or oxygen mask assemblies [30] in their positions.

(b) Attach the oxygen supply line [32] to the oxygen manifold on the oxygen generator [25] (View D).

(c) Make sure the unused ports on the oxygen generator manifold are plugged.

(d) Do these steps to attach the oxygen supply line [32] through the adjustment clamp [31]:

1) Tighten the adjustment clamp [31] to make sure the oxygen supply line [32] does not slip.

2) Make sure the adjustment clamp [31] does not crimp the oxygen supply line [32].

(e) Attach the lanyard rings [27] to the release cable [26].

(f) Carefully attach the release cable [26] to the firing mechanism on the oxygen generator [25].

SUBTASK 35-22-31-410-026-001

(6) Do this task: ASU Oxygen Mask Packing, TASK 35-22-31-420-801-001.

SUBTASK 35-22-31-860-008-001

(7) 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 35-22-31-970-008-001

(8) Remove the report from the airplane logbook that states that the ASU oxygen mask(s) have been removed.

——— END OF TASK ———

TASK 35-22-31-000-808-001

8. LSU Oxygen Mask Removal

(Figure 404)

A. General

(1) The LSU oxygen masks are found in each of the lavatories.

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B. References

Reference	Title
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. 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-13800	Bit - Screwdriver, Special Part #: D72D72684-111 Supplier: 1TGN3

D. Location Zones

Zone	Area
200	Upper Half of Fuselage

E. Remove the LSU Oxygen Masks

SUBTASK 35-22-31-910-021-001

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

SUBTASK 35-22-31-860-009-001

(2) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

SUBTASK 35-22-31-010-037-001

(3) Go to the applicable LSU in the passenger compartment.

SUBTASK 35-22-31-010-038-001

(4) Do these steps to open the LSU oxygen box door:

(a) Put special screwdriver bit, SPL-13800 into fasteners

1) Loosen the fasteners.

(b) Open the oxygen box door.

(c) Let the oxygen masks [50] fall.

(d) Do not pull on the oxygen oxygen masks [50].

NOTE: If you pull on the oxygen masks, the oxygen cylinder will release the oxygen.

SUBTASK 35-22-31-040-014-001

(5) To deactivate the oxygen cylinder, do this task: Oxygen Cylinder (CDS) Deactivation, TASK 35-22-51-040-801.

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AKS 007-999 (Continued)

SUBTASK 35-22-31-020-005-001

(6) Do these steps to remove the oxygen masks [50] from the oxygen box [56]:

(a) Make sure the safety pin [57] is installed in the actuator assembly [60].

(b) Disconnect mask lanyard [51] rings from the release lanyard [55].

(c) Disconnect the oxygen supply hoses [54] from the oxygen manifold [58].

(d) Remove the oxygen masks [50] from the airplane.

SUBTASK 35-22-31-970-009-001

(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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2337922 S0000532201_V2

LSU Oxygen Mask Installation
Figure 404/35-22-31-990-822-001 (Sheet 1 of 3)

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LSU Oxygen Mask Installation
Figure 404/35-22-31-990-822-001 (Sheet 2 of 3)

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D

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LSU Oxygen Mask Installation
Figure 404/35-22-31-990-822-001 (Sheet 3 of 3)

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TASK 35-22-31-400-805-001

9. LSU Oxygen Mask Installation

Figure 404

A. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-31-420-802-001	LSU 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
SPL-13800	Bit - Screwdriver, Special Part #: D72D72684-111 Supplier: 1TGN3

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Procedure

SUBTASK 35-22-31-910-022-001

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

SUBTASK 35-22-31-210-049-001

(2) Do a check of the replacement oxygen 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 35-22-31-210-050-001

(3) Do a check of the oxygen supply hoses [54] 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 [54] have not deteriorated.

(d) Make sure each oxygen mask is held securely to the oxygen supply hose.

SUBTASK 35-22-31-900-015-001

(4) If an oxygen mask or oxygen supply hose is not serviceable, replace the oxygen masks [50].

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AKS 007-999 (Continued)

SUBTASK 35-22-31-420-027-001

(5) Do these steps to install the oxygen masks [50] to the oxygen box [56]:

(a) Put the oxygen oxygen masks [50] in their positions.

(b) Attach the oxygen supply hoses [54] to the oxygen manifold [58] on the oxygen cylinder [59].

(c) Attach the mask lanyards [51] to the release lanyard [55] (Figure 404).

1) Put the mask lanyard loops on the release lanyard.

2) Connect the release lanyard to the split ring.

SUBTASK 35-22-31-410-027-001

(6) Do this task: LSU Oxygen Mask Packing, TASK 35-22-31-420-802-001.

SUBTASK 35-22-31-410-028-001

(7) Close the LSU oxygen box door.

(a) Put special screwdriver bit, SPL-13800 into the fasteners.

(b) Tighten the fasteners.

SUBTASK 35-22-31-860-010-001

(8) 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 35-22-31-970-010-001

(9) Remove the report from the airplane logbook that states that the LSU oxygen mask(s) have been removed.

END OF TASK

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PASSENGER OXYGEN MASK - CLEANING

1. General

A. This procedure contains one task:

(1) Clean the Oxygen Mask Assembly.

B. Clean the oxygen mask assembly and disinfect it with an isopropyl alcohol solution after each use.

C. This procedure gives instructions to clean the passenger oxygen masks. This includes the oxygen masks in the passenger service units (PSUs), attendant service units (ASUs) and lavatory service units (LSUs).

TASK 35-22-31-100-801-001

2. Clean the Oxygen Mask Assembly

A. General

(1) Before you do maintenance on an oxygen system component that contains an oxygen generator you must install a safety pin in the generator firing mechanism. The safety pin will let the generator be handled and stored. If the safety pin is not installed, the oxygen generator can fire.

AKS 007-999

(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.

AKS ALL

B. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-11-000-811-001	Oxygen Generator Deactivation (P/B 201)
35-22-31-000-804-001	ASU and LSU Oxygen Mask Packing (P/B 201)
35-22-31-420-801-001	ASU Oxygen Mask Packing (P/B 201)
35-22-31-420-802-001	LSU Oxygen Mask Packing (P/B 201)
35-22-51-040-801	Oxygen Cylinder (CDS) Deactivation (P/B 201)

C. Consumable Materials

Reference	Description	Specification
B00130	Alcohol - Isopropyl	TT-I-735
B00541	Cleaner - General Purpose Household Detergent	
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	BMS15-5 Class A
G02418	Water - De-ionized	
G50140	Gloves - Protective, Latex or Nitrile	

D. Location Zones

Zone	Area
200	Upper Half of Fuselage

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E. Procedure

SUBTASK 35-22-31-910-005-001

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

SUBTASK 35-22-31-010-009-001

(2) Get access to the applicable oxygen masks in the passenger cabin.

SUBTASK 35-22-31-040-001-001

WARNING: INSTALL A RELEASE PIN OR A SAFETY PIN WITH THE WARNING FLAG INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF YOU REMOVE THE RELEASE PIN AND THE SAFETY PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F (230°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (WAIT APPROXIMATELY ONE HOUR).

(3) To deactivate the oxygen generator, do this task: Oxygen Generator Deactivation, TASK 35-22-11-000-811-001.

AKS 007-999

SUBTASK 35-22-31-040-011-001

(4) To deactivate the oxygen cylinder, do this task: Oxygen Cylinder (CDS) Deactivation, TASK 35-22-51-040-801

AKS ALL

SUBTASK 35-22-31-210-005-001

(5) Make sure the oxygen masks are not torn or damaged.

SUBTASK 35-22-31-100-005-001

(6) Do these steps to clean the oxygen mask assembly, if it is dirty or greasy.

(a) Mix a mild cleaning solution of general purpose household detergent cleaner, B00541 with warm water.

NOTE: Obey the instructions on the label.

(b) Clean the interior and exterior surfaces of the facepiece and the exterior surfaces of the tubing and bag with a clean cotton wiper, G00034 soaked in cleaning solution.

NOTE: Do not disturb the mask diaphagms or do not permit cleaning solution to enter the mask tubing and reservoir bag.

(c) Rinse the mask assembly with warm water, and permit the mask assembly to air dry completely.

SUBTASK 35-22-31-100-006-001

(7) Do these steps to disinfect the mask assembly.

(a) Put on Latex or Nitrile protective gloves, G50140 before handling the mask assembly. Discard the gloves when the disinfecting task is complete.

(b) Mix a disinfectant solution of 70 percent alcohol, B00130 and 30 percent de-ionized water, G02418.

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(c) Wipe the mask assembly with a clean cotton wiper, G00034 soaked in disinfectant solution.

NOTE: Make sure the interior and exterior surfaces of the facepiece are thoroughly wiped.

(d) Permit the mask assembly to air dry completely.

(e) Examine each mask assembly in a well lighted area.

1) Make sure the mask assembly is visibly clean and free of contamination.

2) Make sure the flappers and diaphragms are seated correctly.

SUBTASK 35-22-31-840-001-001

(8) Do the applicable task(s):

ASU and LSU Oxygen Mask Packing, TASK 35-22-31-000-804-001 or ASU Oxygen Mask Packing, TASK 35-22-31-420-801-001 or LSU Oxygen Mask Packing, TASK 35-22-31-420-802-001

——— END OF TASK ———

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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)

A. Location Zones

Zone	Area
118	Electrical and Electronics Compartment - Right

B. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

C. Remove the S813 Altitude Pressure Switch

SUBTASK 35-22-41-865-001

(1) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

SUBTASK 35-22-41-010-001

(2) Open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 35-22-41-020-001

(3) Do these steps to remove the altitude pressure switch, S813 [1].

(a) Remove the cover from the J23 junction box.

(b) Disconnect the D2886 electrical connector [2] from the pressure switch.

(c) Remove the two screws [3] that attach the pressure switch to the J23 junction box.

1) Keep the two screws. These parts are used to install the pressure switch.

(d) Remove the altitude pressure switch, S813 [1].

(e) 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 S813 switch is not installed.

END OF TASK

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Altitude Pressure Switch - Removal/ Installation
Figure 401/35-22-41-990-801

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TASK 35-22-41-400-801

3. Altitude Pressure Switch - Installation (S813)

A. References

Reference	Title
20-50-11-910-801	Standard Torque Values (P/B 201)
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
35-22-00-990-801	Figure: Passenger Oxygen - Flight Compartment Panels (P/B 501)

B. Tools/Equipment

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

Reference	Description
COM-1931	Pump - Vacuum, Portable, Standard Duty Part #: 2546B-01 Supplier: 0NCC5 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 - Tee, Vacuum Hose (to Attach Vacuum Gauge to Vacuum Hose)
STD-1320	Gauge - Vacuum
STD-1321	Valve - Shutoff
STD-3900	Adapter - Straight, Tube to Hose (meets AS5180D04 specification)

C. Location Zones

Zone	Area
118	Electrical and Electronics Compartment - Right
212	Flight Compartment - Right

D. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

E. Procedure

SUBTASK 35-22-41-420-002

(1) Do these steps to install the altitude pressure switch, S813 [1].

(a) Remove the protective cover from the threaded end of the switch, if it is installed.

(b) Put the switch in its position on the J23 junction box.

(c) Install the two screws [3] that attach the switch to the J23 junction box. Tighten the screws (Standard Torque Values, TASK 20-50-11-910-801).

(d) Install the D2886 electrical connector [2] on the altitude pressure switch, S813 [1].

(e) Do the S813 altitude pressure switch operational test.

(f) Install the cover on the J23 junction box.

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(g) Put the airplane in its usual condition.

F. S813 Altitude Pressure Switch Operational Test

SUBTASK 35-22-41-480-002

(1) Do these steps to install the test equipment on the altitude pressure switch, S813 [1]. :

(a) Get access to the J23 BOX.

(b) Remove the cover to get access to the S813 Altitude Pressure Switch.

(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:

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

1) adapter, STD-3900
2) hose, STD-1318
3) connector, STD-1319
4) gauge, STD-1320
5) shutoff valve, STD-1321
6) vacuum pump, COM-1931

SUBTASK 35-22-41-861-002

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

SUBTASK 35-22-41-865-006

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	8	C00785	OXYGEN MAN CONT
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

NOTE: Make sure that these circuit breakers are open. If these circuit breakers are closed, all the oxygen box doors will open when you do the operational test. This will cause all the oxygen masks to fall from the oxygen boxes.

SUBTASK 35-22-41-865-007

(4) Make sure that this circuit breaker is closed:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND

SUBTASK 35-22-41-864-002

(5) Slowly decrease the pressure to the altitude pressure switch until the PASS OXY ON light, on the P5-14 panel comes on (Figure 35-22-00-990-801).

SUBTASK 35-22-41-212-003

(6) Make sure that the PASS OXY ON light comes on between 17.8 in. (452 mm) and 17.3 in. (439.4 mm) of mercury absolute (14,000 ±350 ft (4267 ±107 m) cabin altitude).

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

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(b) Push one of the two MASTER CAUTION lights to reset the system.

(c) Make sure all of the annunciations on the master caution displays go out.

SUBTASK 35-22-41-863-002

(7) Slowly remove the vacuum to the altitude pressure switch, S813.

SUBTASK 35-22-41-080-002

(8) Do these steps to remove the altitude simulation test equipment from the pressure switch:

(a) Remove the test equipment.

(b) If necessary, Install the two screws [3] that attach the altitude pressure switch, S813 [1], to the J23 BOX.

(c) Install the cover to the J23 BOX.

SUBTASK 35-22-41-865-009

(9) Open this circuit breaker for 1-2 seconds, then close the circuit breaker.

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND

NOTE: This is to reset the passenger oxygen control relay(s).

SUBTASK 35-22-41-865-008

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	8	C00785	OXYGEN MAN CONT
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

G. Restore the airplane to its usual condition

SUBTASK 35-22-41-410-002

(1) Close this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 35-22-41-862-002

(2) Do this task to remove the electrical power, if it is no longer necessary.

Remove Electrical Power, TASK 24-22-00-860-812

END OF TASK

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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)
35-22-31-420-802-001	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. 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-14584	Safety Pin and Flag - Constant Dispensing System Part #: 4498016-000 Supplier: D1379

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. 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:

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(a) Put a rod or flat tool into the latch access hole or door clearance.

(b) Push the tool up to release the door latch.

(c) Open the oxygen box door.

(d) Let the oxygen masks come out.

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).

E. Deactivate the Oxygen Cylinder

SUBTASK 35-22-51-480-001

(1) Install the safety pin and flag, COM-14584 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 35-22-31-420-802-001.

(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.

END OF TASK

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CDS OXYGEN CYLINDER (EXAMPLE)

2336309 S0000531249_V3

Oxygen Cylinder (CDS) Activation/Deactivation
Figure 201/35-22-51-990-801

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TASK 35-22-51-440-801

3. Oxygen Cylinder (CDS) Activation

(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)
35-22-31-400-805-001	LSU Oxygen Mask Installation (P/B 401)
35-22-31-420-802-001	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. 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-14584	Safety Pin and Flag - Constant Dispensing System Part #: 4498016-000 Supplier: D1379

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. 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 rod or flat tool into the latch access hole or door clearance.

(b) Push the tool up to release 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.

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.

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(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).

E. Activate the Oxygen Cylinder

SUBTASK 35-22-51-410-003

(1) To pack the oxygen masks, do this task:LSU Oxygen Mask Installation, TASK 35-22-31-400-805-001.

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 flag, COM-14584 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 35-22-31-420-802-001.

(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.

END OF TASK

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OXYGEN CYLINDER (CDS) - REMOVAL/INSTALLATION

1. **General**
   A. This procedure contains scheduled maintenance task data.
   B. This procedure contains these tasks:
      (1) Lavatory Service Unit (LSU) Oxygen Cylinder (CDS) Removal
      (2) Lavatory Service Unit (LSU) Oxygen Cylinder (CDS) Installation.
   C. 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.
   D. All spare oxygen cylinders are supplied with a safety pin installed in the actuator assembly.
   E. 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
35-22-51-040-801	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 [51]:
   (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 [55] on the oxygen cylinder [52], 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.

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(b) Make sure that the release lanyard is fully engaged in the actuator assembly.

NOTE: A disengaged release lanyard will show that the oxygen cylinder released oxygen to flow from the masks.

SUBTASK 35-22-51-040-001

(3) If the cylinder has not released oxygen, do this task: Oxygen Cylinder (CDS) Deactivation, TASK 35-22-51-040-801.

NOTE: The oxygen cylinder deactivation is necessary to prevent the accidental release of oxygen. The release of oxygen will make it necessary to replace the cylinder.

D. Remove the LSU Oxygen Cylinder (CDS)

SUBTASK 35-22-51-020-001

(1) Loosen the screws [54] that attach the oxygen cylinder [52] to the oxygen box [51].

SUBTASK 35-22-51-020-002

(2) Disconnect the oxygen mask hoses [59] from the oxygen manifold [60].

SUBTASK 35-22-51-020-003

(3) Do these steps to remove the oxygen cylinder [52]:

(a) Make sure the safety pin [56] is installed in the actuator assembly [55].

(b) Remove the washers [53] and screws [54] that attach the oxygen cylinder [52] to the oxygen box [51].

1) Keep the fasteners for the installation.

(c) Remove the oxygen cylinder [52] from the oxygen box [51].

END OF TASK

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AFT LAVATORY
(EXAMPLE)

LAVATORY SERVICE UNIT

A

2336346 S0000531342_V2

CDS Oxygen Cylinder Installation
Figure 401/35-22-51-990-802 (Sheet 1 of 3)

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CDS Oxygen Cylinder Installation
Figure 401/35-22-51-990-802 (Sheet 2 of 3)

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ACTUATOR ASSEMBLY

B

2336351 S0000531344_V3

CDS Oxygen Cylinder Installation
Figure 401/35-22-51-990-802 (Sheet 3 of 3)

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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
35-22-51-440-801	Oxygen Cylinder (CDS) Activation (P/B 201)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Prepare for the LSU Oxygen Cylinder Installation

SUBTASK 35-22-51-210-005

(1) Do these checks at the actuator assembly [55] on the oxygen cylinder [52].

(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 [55].

NOTE: A disengaged lanyard assembly will show that an oxygen cylinder activation caused oxygen to flow from the masks.

(c) Make sure that the safety pin [56] is installed in the actuator assembly [55].

SUBTASK 35-22-51-800-001

(2) If the oxygen cylinder [52] is not serviceable, discard it.

SUBTASK 35-22-51-800-002

(3) If the oxygen cylinder [52] is serviceable, do the subsequent procedure.

D. Install the LSU Oxygen Cylinder

SUBTASK 35-22-51-410-005

(1) Put the oxygen cylinder [52] in its position in the oxygen box [51], with the part number visible.

NOTE: The part number placard and oxygen manifold will be set in the direction of the oxygen box door.

SUBTASK 35-22-51-410-006

(2) Install the oxygen cylinder [52] with the washers [53] and screws [54].

SUBTASK 35-22-51-420-001

(3) Connect the oxygen supply line to the oxygen manifold [60] on the oxygen cylinder [52].

NOTE: Make sure the oxygen supply lines are tightly connected to the manifold.

SUBTASK 35-22-51-440-001

(4) Do this task: Oxygen Cylinder (CDS) Activation, TASK 35-22-51-440-801.

END OF TASK

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PORTABLE OXYGEN EQUIPMENT - INSPECTION/CHECK

1. General

A. This procedure contains scheduled maintenance task data.

B. This procedure has these tasks:

(1) Portable Oxygen Cylinder Pressure and Condition Check

(2) Oxygen Cylinder Leak Check.

C. The portable oxygen cylinders are installed at different locations in the passenger compartment. Do not try to adjust a unit in the field. Remove any portable oxygen cylinders that do not operate correctly. Make sure approved persons repair any damaged oxygen cylinders.

TASK 35-31-00-710-801

2. Portable Oxygen Cylinder Pressure and Condition Check

(Figure 601, Figure 602)

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. Preparation

SUBTASK 35-31-00-910-003

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

SUBTASK 35-31-00-210-001

(2) Make sure that the oxygen cylinder hydrostatic test date complies with current regulations.

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

NOTE: The hydrostatic test date is on the neck of the oxygen cylinder

D. Portable Oxygen Cylinder Pressure Check

SUBTASK 35-31-00-210-005

(1) Go to each portable oxygen cylinder location.

SUBTASK 35-31-00-210-002

NOTE: See (Figure 602) for equivalent portable oxygen cylinder pressures for temperatures other than 70°F (21°C).

(2) For oxygen cylinders US DOT-3AA-1800; Make sure the portable oxygen cylinder pressure gage is not more than 1800 psi at 70°F (21°C)

(3) For oxygen cylinders US DOT-3HT-1850 and US DOT-E8162-1850; Make sure the portable oxygen cylinder pressure gage is not more than 1850 psi at 70°F (21°C).

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SUBTASK 35-31-00-960-001

(4) Replace the portable oxygen cylinder if the gage pressure is below the minimum set by the airline or regulatory authority.

E. Portable Oxygen Cylinder Condition Check

SUBTASK 35-31-00-210-003

(1) Make sure that the oxygen cylinders are correctly attached to the wall-mounted brackets or containers, where applicable.

SUBTASK 35-31-00-210-004

(2) Make sure that the oxygen cylinders are in a satisfactory condition:

(a) Make sure that the oxygen mask hose is attached to the outlet.

(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 ———

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PORTABLE OXYGEN CYLINDER (EXAMPLE)

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Portable Oxygen Inspection
Figure 601/35-31-00-990-801

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NOTE:

MAXIMUM ALLOWABLE PRESSURE FOR FULLY SERVICED PORTABLE OXYGEN CYLINDER.

1 US DOT-3HT-1850 (STEEL) OR US DOT-E8162-1850 (COMPOSITE)

2 US DOT-3AA-1800 (STEEL)

G88766 S0006577858_V4

Portable Oxygen Cylinder-Pressure/Temperature Correction Chart
Figure 602/35-31-00-990-802

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TASK 35-31-00-710-802

3. Portable Oxygen Cylinder Leak Check

(Figure 601)

A. References

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

B. Consumable Materials

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

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Preparation

SUBTASK 35-31-00-910-004

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

E. Portable Oxygen Cylinder Leak Check

SUBTASK 35-31-00-790-001

(1) Turn the knob on the ON-OFF valve counterclockwise to open it.

SUBTASK 35-31-00-790-002

(2) Do a check of the portable oxygen cylinder for leaks:

(a) Apply the leak detection compound, G50306 to all the fittings and connections.

(b) Look for bubbles to find leaks.

(c) Remove the leak detection compound, G50306 from the cylinder components with a cotton wiper, G00034 immediately after you do the check.

1) If you find a leak do these steps:

NOTE: Do not permit the leaks to continue.

a) Remove the portable oxygen cylinder from the airplane.

b) Install a fully serviced portable oxygen cylinder.

2) If there are no leaks, the portable oxygen cylinder is satisfactory.

SUBTASK 35-31-00-790-003

(3) Turn the knob on the ON-OFF valve clockwise to close it.

END OF TASK

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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)	BMS15-5 Class A
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.

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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.

SUBTASK 35-31-00-160-004

(6) Apply the solution to the face piece with a cotton wiper, G00034 or a seal, G02186.

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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

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PORTABLE OXYGEN EQUIPMENT - REMOVAL/INSTALLATION

1. General

A. This procedure contains scheduled maintenance task data.

B. This procedure has this task:

(1) Replace Portable Oxygen Cylinder.

C. The portable oxygen cylinders are installed at different locations in the passenger compartment. Do not try to adjust a unit in the field. Remove any portable oxygen cylinders that do not operate correctly. Make sure approved persons repair any damaged oxygen cylinders.

TASK 35-31-01-960-801

2. Replace Portable Oxygen Cylinder

(Figure 401)

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. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Removal

SUBTASK 35-31-01-910-001

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

SUBTASK 35-31-01-010-001

(2) Open the stowage compartment door, if applicable to get access to the portable oxygen cylinder [1].

SUBTASK 35-31-01-000-001

(3) Loosen the straps that holds the portable oxygen cylinder [1] in place, if applicable.

(a) Remove the portable oxygen cylinder [1].

SUBTASK 35-31-01-410-001

(4) Close the stowage compartment door, if applicable.

D. 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 assy.

(b) Make sure that the mask hose is connected to the outlet port on the regulator.

1) If the mask is inside a “ZIPLOC” bag, open the bag and connect the hose to the outlet port of the regulator. Seal the bag opening with masking tape.

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2) If the mask is packaged in a sealed plastic bag, punch a hole just big enough for the hose to come out and connect the hose to the outlet port of the regulator. Seal the hole with masking tape.

SUBTASK 35-31-01-410-002

(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) Secure folded straps and ends of mask bag to the cylinder with Velcro straps on cylinder not more than one thickness (layer) of masking tape installed across or near each end or side of the package to permit easy removal.

NOTE: Ensure that the oxygen bottle 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

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**PORTABLE OXYGEN CYLINDER
(EXAMPLE)**

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**Portable Oxygen Equipment Installation
Figure 401/35-31-01-990-801**

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PORTABLE PROTECTIVE BREATHING EQUIPMENT BOX - REMOVAL/INSTALLATION

1. General

A. This procedure has this task:

(1) Portable Protective Breathing Equipment Box Removal.

(2) Portable Protective Breathing Equipment Box Installation.

B. The portable protective breathing equipment consists of a smoke-hood and protective box. It is installed in the flight compartment, mounted onto a bracket, which is attached to the left aft bulkhead of the flight compartment.

C. The portable protective breathing equipment consists of a smoke-hood and its protective box. The PBE is installed in various locations in the flight and passenger compartments. Refer to the airplane's Layout of Passenger Accommodations (LOPA's), to find the quantity and specific location of the PBE boxes.

TASK 35-31-02-000-801

2. Portable Protective Breathing Equipment Box Removal

A. References

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

B. Location Zones

Zone	Area
211	Flight Compartment - Left

C. Remove the Portable Protective Breathing Equipment 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 35-31-02-010-005

(2) Go into the flight compartment to get access to the portable protective breathing equipment box [1] .

NOTE: The portable protective breathing equipment box is stored on the left aft bulkhead of the flight compartment.

NOTE: Additional portable protective breathing equipment is stored under the attendant seats.

SUBTASK 35-31-02-010-008

(3) Go into the passenger compartment to get access to the portable protective breathing equipment (PBE). Refer to the airplane's Layout of Passenger Accommodations (LOPA's), to find the quantity and specific location of the PBE boxes

SUBTASK 35-31-02-000-001

(4) Remove the PBE box from its storage mounting bracket or compartment.

SUBTASK 35-31-02-010-006

(5) Remove the fasteners that attach the protective box to the left aft bulkhead of the flight compartment.

END OF TASK

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Portable Protective Breathing Equipment Box Installation
Figure 401/35-31-02-990-801 (Sheet 1 of 2)

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Portable Protective Breathing Equipment Box Installation
Figure 401/35-31-02-990-801 (Sheet 2 of 2)

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TASK 35-31-02-400-801

3. Portable Protective Breathing Equipment Installation

(Figure 401)

A. References

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

B. Location Zones

Zone	Area
211	Flight Compartment - Left

C. Install the Portable Protective Breathing Equipment (PBE)

SUBTASK 35-31-02-910-002

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

SUBTASK 35-31-02-010-007

(2) As necessary, install the fasteners that attach the PBE box mounting bracket to the left aft bulkhead of the flight compartment.

(a) Install the PBE box in its mounting bracket. ,

SUBTASK 35-31-02-400-001

(3) To install the passenger compartment PBE's, refer to the airplane's Layout of Passenger Accommodations (LOPA's) to find the quantity and specific location of the PBE boxes. Install the PBE box in its mounting bracket, or storage compartment, as applicable.

SUBTASK 35-31-02-410-002

(4) Apply a tamper seal as necessary.

END OF TASK

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