CHAPTER

35

OXYGEN



CHAPTER 35 OXYGEN

Subject/Page	Date	COC	Subject/Page	Date	coc	Subject/Pag	je Date	COC
35-EFFECTIVE	E PAGES		35-00-00			35-11-00	(cont)	
1 thru 4	SEP 05/2018		901	Sep 05/2017		521	Jan 05/2018	
35-CONTENTS	3		902	Jan 05/2015		522	Jan 05/2018	
1	Sep 05/2017		903	Jan 05/2015		523	Jan 05/2018	
2	Sep 05/2017		904	Jan 05/2015		524	Jan 05/2015	
3	Jan 05/2017		905	Jan 05/2015		525	Jan 05/2015	
4	Jan 05/2017		906	Sep 05/2017		526	Jan 05/2015	
5	Jan 05/2017		907	Sep 05/2017		35-11-00		
6	Jan 05/2016		908	Sep 05/2017		601	May 05/2015	
7	Jan 05/2016		909	Sep 05/2017		602	Sep 05/2017	
8	May 05/2018		910	Sep 05/2017		603	Jan 05/2015	
9	Sep 05/2017		35-11-00			604	Jan 05/2015	
10	Sep 05/2017		201	Sep 05/2017		605	Jan 05/2015	
11	May 05/2018		202	Sep 05/2017		606	BLANK	
12	BLANK		203	Sep 05/2017		35-11-02		
35-00-00			204	Sep 05/2017		401	Sep 05/2017	
201	Jan 05/2015		35-11-00			402	Jan 05/2018	
202	Jan 05/2015		501	May 05/2015		403	Jan 05/2015	
203	Jan 05/2015		502	May 05/2015		404	Jan 05/2015	
204	May 05/2017		503	May 05/2017		405	Jan 05/2018	
205	Sep 05/2017		504	Jan 05/2015		406	Sep 05/2017	
206	Jan 05/2018		505	Jan 05/2015		35-11-03		
207	Sep 05/2017		506	Sep 05/2017		401	Sep 05/2017	
208	Sep 05/2017		507	Sep 05/2017		402	Jan 05/2018	
209	Sep 05/2017		508	Sep 05/2017		403	Jan 05/2015	
210	Sep 05/2017		509	Sep 05/2016		404	Jan 05/2015	
211	Sep 05/2017		510	Jan 05/2015		405	Jan 05/2018	
212	Jan 05/2018		511	Jan 05/2015		406	Sep 05/2017	
213	Jan 05/2018		512	Jan 05/2015		35-11-05		
214	BLANK		513	May 05/2015		401	Sep 05/2017	
35-00-00			514	May 05/2015		402	Jan 05/2018	
701	Sep 05/2016		515	May 05/2017		403	Jan 05/2015	
702	Sep 05/2017		516	May 05/2017		404	Jan 05/2015	
703	Jan 05/2018		517	May 05/2015		405	Jan 05/2018	
704	Jan 05/2015		518 519	May 05/2016 Jul 25/2018		406	Jan 05/2018	
			520			100	Jan 30/2010	
			520	Jan 05/2018				

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35-11-07			35-11-18	(cont)		35-21-00	(cont)	
401	Sep 05/2017		207	Sep 05/2017		511	May 05/2017	
402	Jan 05/2018		208	Sep 05/2017		512	BLANK	
403	May 05/2017		209	Sep 05/2017		35-21-01		
404	Sep 05/2017		210	Sep 05/2017		201	Jan 05/2015	
405	Jan 05/2018		211	May 05/2017		202	Jan 05/2015	
406	Sep 05/2017		212	May 05/2017		203	May 05/2015	
35-11-08			213	Sep 05/2017		204	May 05/2015	
401	Sep 05/2017		214	Jan 05/2018		35-21-02		
402	Jan 05/2018		215	May 05/2017		201	Jan 05/2018	
403	Jan 05/2015		216	May 05/2017		202	Sep 05/2015	
404	May 05/2017		217	May 05/2017		203	May 05/2017	
405	Jan 05/2018		218	Jan 05/2017		204	Sep 05/2015	
406	Sep 05/2017		219	Jan 05/2018		205	Sep 05/2017	
35-11-09	·		220	May 05/2018		206	BLANK	
401	Sep 05/2017		221	Sep 05/2017		35-21-02		
402	Jul 25/2018		222	BLANK		401	May 05/2015	
403	Sep 05/2017		35-21-00			402	May 05/2015	
404	Sep 05/2017		201	Jan 05/2016		403	May 05/2017	
405	Sep 05/2017		202	Sep 05/2017		404	May 05/2017	
406	Sep 05/2017		203	Sep 05/2017		405	May 05/2015	
407	Sep 05/2017		204	May 05/2017		406	May 05/2015	
408	Jan 05/2015		205	May 05/2017		35-21-02		
409	Jan 05/2015		206	Sep 05/2017		601	May 05/2015	
410	BLANK		207	Sep 05/2017		602	May 05/2015	
35-11-10			208	BLANK		35-21-05		
401	Jan 05/2015		35-21-00			201	Jan 05/2015	
402	May 05/2017		501	May 05/2015		202	May 05/2016	
403	Jan 05/2015		502	Sep 05/2017		203	May 05/2016	
404	BLANK		503	Sep 05/2016		204	BLANK	
35-11-18			504	Sep 05/2016		35-21-06		
201	Sep 05/2017		505	Sep 05/2016		401	Jan 05/2015	
202	Sep 05/2017		506	Sep 05/2017		402	Jan 05/2015	
203	May 05/2017		507	Sep 05/2017		35-21-07		
204	May 05/2017		508	May 05/2017		401	Jan 05/2015	
205	May 05/2016		509	May 05/2017		402	Jan 05/2015	
206	Sep 05/2017		510	May 05/2016		403	Jan 05/2015	

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35-21-07	(cont)		35-21-11	(cont)		35-21-12		
404	BLANK		235	Sep 05/2017		201	Jan 05/2015	
35-21-11			236	May 05/2018		202	Jan 05/2018	
201	Jan 05/2016		237	May 05/2018		203	Sep 05/2017	
202	Jan 05/2018		238	Sep 05/2017		204	Sep 05/2017	
203	May 05/2017		239	May 05/2018		205	Sep 05/2017	
204	Sep 05/2017		240	May 05/2018		206	Sep 05/2017	
205	Sep 05/2017		241	May 05/2018		207	Sep 05/2017	
206	Sep 05/2017		242	May 05/2018		208	Sep 05/2017	
207	Sep 05/2017		243	May 05/2018		209	Sep 05/2017	
208	Sep 05/2017		244	May 05/2018		210	Sep 05/2017	
209	Jan 05/2016		245	May 05/2018		211	Sep 05/2017	
210	Sep 05/2017		246	May 05/2018		212	Sep 05/2017	
211	Jan 05/2016		247	May 05/2017		213	Sep 05/2017	
212	Jan 05/2016		248	Jan 05/2016		214	Sep 05/2017	
213	Sep 05/2017		249	Sep 05/2017		215	Sep 05/2017	
214	Sep 05/2017		250	Sep 05/2017		216	Sep 05/2017	
215	Sep 05/2017		251	May 05/2017		217	Sep 05/2017	
216	Sep 05/2017		252	Sep 05/2017		218	Sep 05/2017	
217	Sep 05/2017		253	May 05/2017		219	Jan 05/2018	
218	Sep 05/2017		254	May 05/2017		220	Sep 05/2017	
219	Sep 05/2017		255	May 05/2017		221	Sep 05/2017	
220	Sep 05/2017		256	May 05/2017		222	Sep 05/2017	
221	Sep 05/2017		257	May 05/2017		223	Sep 05/2017	
222	Jan 05/2018		258	May 05/2017		224	Sep 05/2017	
223	Jan 05/2018		259	May 05/2017		225	Sep 05/2017	
224	Jan 05/2018		260	Sep 05/2017		226	Sep 05/2017	
225	Jan 05/2018		261	May 05/2017		227	Sep 05/2017	
226	Jan 05/2018		262	May 05/2017		228	Sep 05/2017	
227	Jan 05/2018		263	May 05/2017		229	Sep 05/2017	
228	Jan 05/2018		264	Sep 05/2017		230	Sep 05/2017	
229	Jan 05/2018		265	May 05/2017		231	Sep 05/2017	
230	Jan 05/2018		266	May 05/2017		232	Sep 05/2017	
231	Jan 05/2018		267	•		233	May 05/2017	
232	May 05/2017			May 05/2017		234	Sep 05/2017	
233	May 05/2017		268	BLANK		235	Sep 05/2017	
234	Sep 05/2017					236	May 05/2017	

 $\mbox{A = Added, R = Revised, D = Deleted, O = Overflow, C = Customer Originated Change} \label{eq:added}$



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35-21-12	(cont)		35-21-13	(cont)				
237	Sep 05/2017		226	Sep 05/2017				
238	May 05/2017		227	Sep 05/2017				
239	May 05/2017		228	Sep 05/2017				
240	Sep 05/2017		229	Sep 05/2017				
241	May 05/2017		230	Sep 05/2017				
242	May 05/2017		231	Sep 05/2017				
243	May 05/2017		232	Sep 05/2017				
244	May 05/2017		233	Sep 05/2017				
245	May 05/2017		234	Sep 05/2017				
246	May 05/2017		235	May 05/2017				
35-21-13			236	Sep 05/2017				
201	Jan 05/2015		237	Sep 05/2017				
202	Jan 05/2018		238	Sep 05/2017				
203	Sep 05/2017		239	Sep 05/2017				
204	Sep 05/2017		240	Sep 05/2017				
205	Sep 05/2017		241	Sep 05/2017				
206	Sep 05/2017		242	Sep 05/2017				
207	May 05/2017		243	Sep 05/2017				
208	Sep 05/2017		244	Sep 05/2017				
209	May 05/2017		245	Sep 05/2017				
210	Sep 05/2017		246	Sep 05/2017				
211	May 05/2017		247	Sep 05/2017				
212	Sep 05/2017		248	Sep 05/2017				
213	Sep 05/2017		35-31-00					
214	Sep 05/2017		201	May 05/2018				
215	Sep 05/2017		202	Sep 05/2017				
216	Sep 05/2017		203	May 05/2018				
217	Sep 05/2017		204	May 05/2017				
218	Jan 05/2018		205	Sep 05/2017				
219	Sep 05/2017		206	Sep 05/2017				
220	Sep 05/2017		207	Sep 05/2017				
221	Sep 05/2017		208	May 05/2018				
222	Sep 05/2017		209	May 05/2018				
223	Sep 05/2017		210	May 05/2018				
224	Sep 05/2017		211	May 05/2018				
225	Sep 05/2017		212	BLANK				

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SUBJECT		CONF PAGE	EFFECT
OXYGEN - MAINTENANCE PRACTICES	35-00-00	201	ARO ALL
Oxygen System General Maintenance Practices TASK 35-00-00-910-801		201	ARO ALL
Safety Precautions TASK 35-00-00-910-802		205	ARO ALL
Maintenance Practices TASK 35-00-00-840-801		208	ARO ALL
Leak Detection TASK 35-00-00-790-801		211	ARO ALL
Installation of Threaded Caps on Open Oxygen Lines		211	ARO ALL
TASK 35-00-00-420-801			
Crew Oxygen Pressure - Transit Check TASK 35-00-00-210-801		212	ARO ALL
OXYGEN - CLEANING/PAINTING	35-00-00	701	ARO ALL
Oxygen System Component Cleaning TASK 35-00-00-100-801		701	ARO ALL
OXYGEN - DDG MAINTENANCE PROCEDURES	35-00-00	901	ARO ALL
MMEL 35-11-1 (DDG) Preparation - Crew Oxygen System Inoperative TASK 35-00-00-040-801		901	ARO ALL
MMEL 35-11-1 (DDG) Restoration - Crew Oxygen System Inoperative TASK 35-00-00-440-801		902	ARO ALL
DDG 35–21–02 Preparation - Passenger Oxygen Service Units (Passenger) Inoperative TASK 35-00-00-040-803		904	ARO ALL
DDG 35-21-02 Restoration - Passenger Oxygen Service Units (Passenger) Inoperative TASK 35-00-00-440-802		904	ARO ALL
DDG 35-21-05 Preparation - Crew/Attendant Rest Oxygen Modules (Passenger) Inoperative TASK 35-00-00-040-805		905	ARO ALL
DDG 35–21–05 Restoration - Crew/Attendant Rest Oxygen Modules (Passenger) Inoperative TASK 35-00-00-440-805		905	ARO ALL



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DDG 35-22-01 Restoration - Passenger Oxygen Pressure Indication System (Gaseous) Inoperative TASK 35-00-00-440-803			908	ARO ALL
DDG 35-31-01 Preparation - Portable Oxygen Dispensing Units (Or Equivalent) (Bottle and Mask) Inoperative TASK 35-00-00-040-804			908	ARO ALL
DDG 35-31-01 Restoration - Portable Oxygen Dispensing Units (Or Equivalent) (Bottle and Mask) Inoperative TASK 35-00-00-440-804			909	ARO ALL
DDG 35-31-02 Preparation - Protective Breathing Equipment (PBE) Inoperative (EASA) TASK 35-00-00-040-810			909	ARO ALL
DDG 35-31-02 Restoration - Protective Breathing Equipment (PBE) Inoperative (EASA) TASK 35-00-00-440-809			910	ARO ALL
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Crew Oxygen System - Deactivation TASK 35-11-00-040-801			201	ARO ALL
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Bleed Valve Test TASK 35-11-00-710-808			504	ARO ALL
Pressure Regulator Test TASK 35-11-00-710-809			506	ARO ALL
Crew Oxygen Mask Stowage Box Test (Mask Stowed In Stowage Box) TASK 35-11-00-710-803			513	ARO ALL



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	517	ARO ALL
	518	ARO ALL
35-11-00	601	ARO ALL
	601	ARO ALL
	605	ARO ALL
35-11-02	401	ARO ALL
	401	ARO ALL
	405	ARO ALL
35-11-03	401	ARO ALL
	401	ARO ALL
	405	ARO ALL
35-11-05	401	ARO ALL
	401	ARO ALL
	405	ARO ALL
35-11-07	401	ARO ALL
	401	ARO ALL
	404	ARO ALL
	35-11-02 35-11-03 35-11-05	SUBJECT CONF PAGE 517 518 35-11-00 601 601 605 35-11-02 401 401 405 35-11-03 401 405 35-11-05 401 401 405 35-11-07 401 401



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Bleed Valve Removal TASK 35-11-08-000-801			401	ARO ALL
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CHECK VALVE - MAINTENANCE PRACTICES	35-11-09		401	ARO ALL
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Check Valve Installation - Fill Tube TASK 35-11-09-400-801			402	ARO ALL
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Check Valve Installation - Supply Tube TASK 35-11-09-400-803			406	ARO ALL
OVERBOARD DISCHARGE INDICATOR - REMOVAL/INSTALLATION	35-11-10		401	ARO ALL
Overboard Discharge Indicator Disc Removal TASK 35-11-10-000-801			401	ARO ALL
Overboard Discharge Indicator Disc Installation TASK 35-11-10-400-801			403	ARO ALL
CREW OXYGEN MASK AND STOWAGE BOX - MAINTENANCE PRACTICES	35-11-18		201	ARO ALL
Crew Oxygen Mask and Demand Regulator Removal			201	ARO ALL
TASK 35-11-18-000-802			005	
Crew Oxygen Mask and Demand Regulator Installation TASK 35-11-18-400-801			205	ARO ALL
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Stowage Box Assembly Removal TASK 35-11-18-000-801			213	ARO ALL
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Passenger Oxygen System - Deactivation TASK 35-21-00-040-801		201	ARO ALL
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PASSENGER OXYGEN SYSTEM - ADJUSTMENT/TEST	35-21-00	501	ARO ALL
Oxygen Box Door Latch/Actuator Operational Test TASK 35-21-00-710-801		501	ARO ALL
Oxygen Box Door Latch Actuator and Hinge Adjustment TASK 35-21-00-820-801		510	ARO ALL
OXYGEN GENERATOR - MAINTENANCE PRACTICES	35-21-01	201	ARO ALL
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Oxygen Generator Firing Mechanism Detailed Visual Inspection TASK 35-21-01-210-802		202	ARO ALL
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PRACTICE			
Oxygen Cylinder (CDS) Deactivation TASK 35-21-02-040-801		201	ARO 011-999
Oxygen Cylinder (CDS) Activation TASK 35-21-02-440-801		204	ARO 011-999
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Passenger Oxygen Mask Installation TASK 35-21-05-410-801		201	ARO ALL
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ATTENDANT /CREW REST/ LAVATORY OXYGEN PSU - MAINTENANCE PRACTICES	35-21-11	201	ARO ALL
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Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Firing Mechanism Activation TASK 35-21-11-440-801		205	ARO ALL
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Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Mask Installation TASK 35-21-11-400-802		224	ARO ALL
Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Mask Inspection TASK 35-21-11-200-803		228	ARO ALL
Attendant/Crew Rest/ Lavatory Oxygen PSU - Oxygen Mask Cleaning TASK 35-21-11-100-801		233	ARO ALL
Attendant /Crew Rest/ Lavatory Oxygen PSU Oxygen Mask Packing TASK 35-21-11-400-803		236	ARO ALL
Attendant/Crew Rest/ Lavatory Oxygen PSU Removal TASK 35-21-11-000-803		237	ARO ALL
Attendant/Crew Rest/ Lavatory Oxygen PSU Installation TASK 35-21-11-400-804		239	ARO ALL
Attendant/Crew Rest/ Lavatory Oxygen PSU Mask Box Door Latch Removal TASK 35-21-11-000-804		241	ARO ALL
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Main Cabin Center Oxygen PSU Oxygen Generator Firing Mechanism Detailed Visual Inspection TASK 35-21-12-200-801		206	ARO ALL
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Main Cabin Center Oxygen PSU Oxygen Generator Installation TASK 35-21-12-400-801		210	ARO ALL
Main Cabin Center Oxygen PSU Oxygen Generator Check TASK 35-21-12-200-802		215	ARO ALL
Main Cabin Center Oxygen PSU Oxygen Mask Removal TASK 35-21-12-000-802		218	ARO ALL
Main Cabin Center Oxygen PSU Oxygen Mask Installation TASK 35-21-12-400-802		219	ARO ALL
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Main Cabin Center Oxygen PSU Oxygen Mask Cleaning TASK 35-21-12-100-801		222	ARO ALL
Main Cabin Center Oxygen PSU Oxygen Mask Packing TASK 35-21-12-400-803		223	ARO ALL
Main Cabin Center Oxygen PSU Removal TASK 35-21-12-000-803		226	ARO ALL
Main Cabin Center Oxygen PSU Installation TASK 35-21-12-400-804		227	ARO ALL
Main Cabin Center Oxygen PSU Mask Box Door Latch Actuator Removal TASK 35-21-12-000-804		228	ARO ALL
Main Cabin Center Oxygen PSU Mask Box Door Latch Actuator Installation TASK 35-21-12-400-805		230	ARO ALL



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Main Cabin Outboard Oxygen PSU Oxygen Generator Firing Mechanism Deactivation TASK 35-21-13-040-801			201	ARO ALL
Main Cabin Outboard Oxygen PSU Oxygen Generator Firing Mechanism Activation TASK 35-21-13-440-801			204	ARO ALL
Main Cabin Outboard Oxygen PSU Oxygen Generator Firing Mechanism Detailed Visual Inspection TASK 35-21-13-211-801			207	ARO ALL
Main Cabin Outboard Oxygen PSU Oxygen Generator Removal TASK 35-21-13-000-801			208	ARO ALL
Main Cabin Outboard Oxygen PSU Oxygen Generator Installation TASK 35-21-13-400-801			210	ARO ALL
Main Cabin Outboard Oxygen PSU Oxygen Generator Check TASK 35-21-13-200-801			213	ARO ALL
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Main Cabin Outboard Oxygen PSU Oxygen Mask Installation TASK 35-21-13-400-802			218	ARO ALL
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Main Cabin Outboard Oxygen PSU Oxygen Mask Packing TASK 35-21-13-530-801			223	ARO ALL
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CHAPTER 35 OXYGEN

CHAPTER SECTION

SUBJECT	SUBJECT	CONF PAGE	EFFECT
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Main Cabin Outboard Oxygen PSU Mask Box Door Latch Actuator Removal TASK 35-21-13-000-804		228	ARO ALL
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Portable Oxygen Cylinder Cleaning TASK 35-31-00-100-801		211	ARO ALL



OXYGEN - MAINTENANCE PRACTICES

1. General

- A. This procedure contains scheduled maintenance task data.
- B. This procedure has these tasks:
 - (1) Oxygen System General Maintenance Practices:
 - (a) Safety Precautions
 - (b) Maintenance Practices
 - (c) Leak Detection
 - (d) Installation of Threaded Caps on Open Oxygen Lines
 - (2) Crew Oxygen Pressure Transit Check.

TASK 35-00-00-910-801

2. Oxygen System General Maintenance Practices

NOTE: (Figure 201), (Figure 202)

A. General

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

B. Location Zones

Zone	Area
115	Area Outboard and Above Nose Landing Gear Wheel Well, Left
200	Upper Half of Fuselage

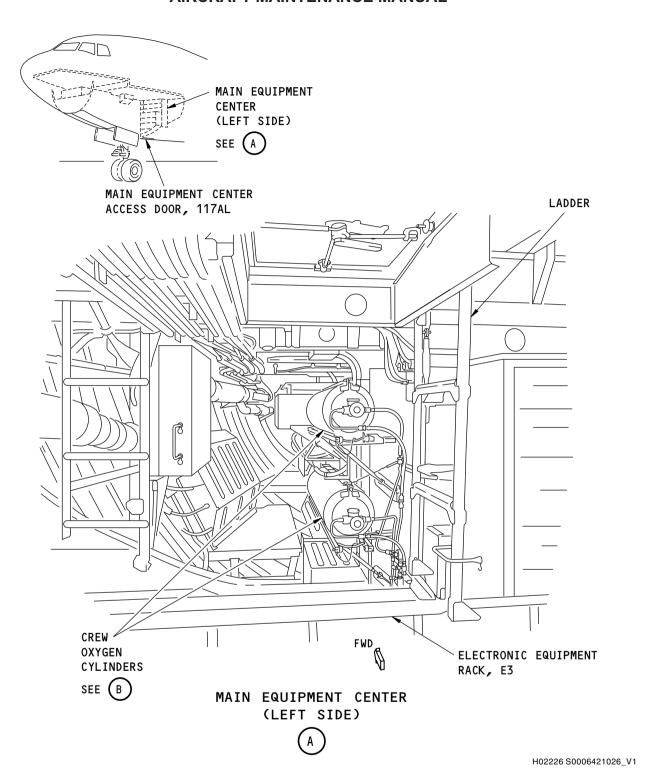
C. Procedure References

SUBTASK 35-00-00-910-013

- (1) Refer to these tasks below for the applicable data:
 - (a) Safety Precautions (Safety Precautions, TASK 35-00-00-910-802)
 - (b) Maintenance Practices (TASK 35-00-00-840-801)
 - (c) Leak Detection (TASK 35-00-00-790-801)

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

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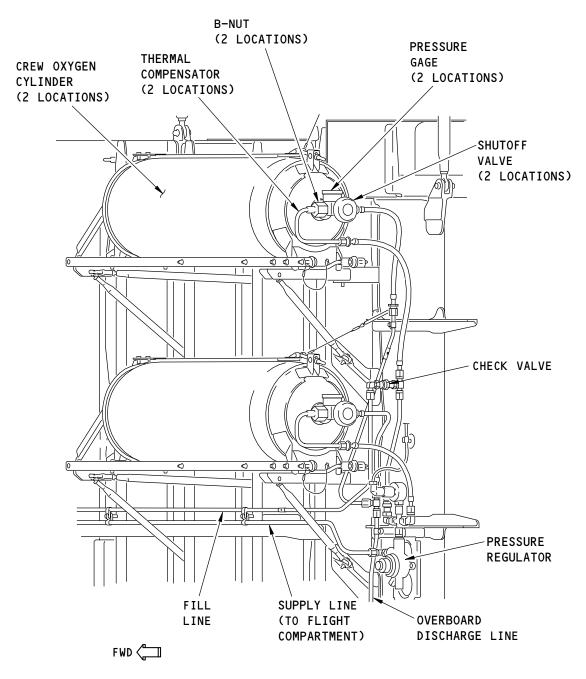
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CREW OXYGEN CYLINDERS



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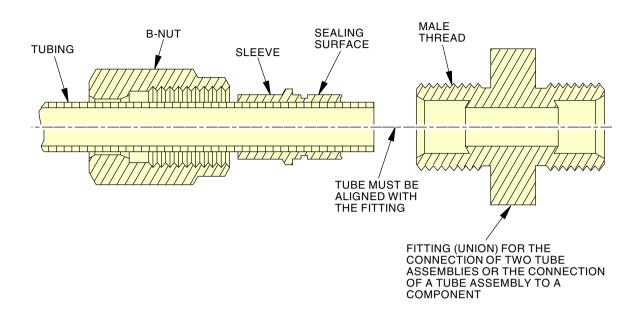
Crew Oxygen System Installation Figure 201/35-00-00-990-801 (Sheet 2 of 2)

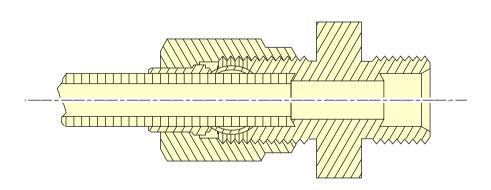
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TUBE AND SLEEVE ARE ALIGNED AND ENGAGED AT THE END OF THE FITTING

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Tube and Fitting Installation Figure 202/35-00-00-990-802

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TASK 35-00-00-910-802

3. Safety Precautions

(Figure 201, Figure 202)

A. References

Reference	Title
12-15-08-610-801	Crew Oxygen Cylinder Servicing - Remote Fill Panel (P/B 301)
12-15-08-900-801	Crew Oxygen Cylinder Servicing - Cylinder Replacement (P/B 301)
20-10-23-400-801	Lockwire, Cotter Pins, and Lockrings - Installation (P/B 401)
20-41-00-910-801	Static Grounding (P/B 201)
35-00-00-100-801	Oxygen System Component Cleaning (P/B 701)

B. Tools/Equipment

Reference	Description
STD-421	Goggles - Eye Protection
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
G00091	Compound - Oxygen System Leak Detection - Snoop Leak Detector	MIL-PRF-25567
G02479	Lockwire - MS20995CY20, Copper - 0.020 Inch (0.508 mm) Diameter	NASM20995
G50263	Gloves - White Cotton Disposable	
G50306	Compound - Leak Detection, Oxygen System	MIL-PRF-25567 (BAC5402)

D. Location Zones

Zone	Area
100	Lower Half of Fuselage
115	Area Outboard and Above Nose Landing Gear Wheel Well, Left
152	Aft Cargo Compartment, Right
200	Upper Half of Fuselage

E. Procedure - Safety Precautions

SUBTASK 35-00-00-910-038

(1) Use eye protection goggles, STD-421 or similar when working with the oxygen system.

SUBTASK 35-00-00-610-002



DO NOT PERMIT OIL, GREASE, DIRT OR OTHER FLAMMABLE MATERIALS TO GET NEAR THE PRESSURE OXYGEN SYSTEM. THESE MATERIALS CAN CAUSE A FIRE OR AN EXPLOSION WHEN THEY ARE NEAR PRESSURIZED OXYGEN.

(2) Do not permit oil, grease, flammable solvents, dust, lint, metal filing, or other flammable materials to touch the oxygen system.

SUBTASK 35-00-00-860-013

(3) Make sure the airplane is electrically grounded (TASK 20-41-00-910-801).

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SUBTASK 35-00-00-600-005

(4) Keep the oxygen away from hot exhaust, sparks, and flame.

SUBTASK 35-00-00-600-006

(5) Keep the oxygen away from flammable materials such as fuel, paint, thinners, and cleaning solvents.

SUBTASK 35-00-00-600-007

(6) Make sure your hands, clothing, equipment, and tools are clean and free of petroleum products (TASK 35-00-00-100-801).

SUBTASK 35-00-00-600-008

(7) Use lint free, nylon gloves, G50263 to do the work on the oxygen system.

SUBTASK 35-00-00-790-003

(8) Use the leak detection compound, G50306 or the Snoop Leak Detector compound, G00091 to do leak tests.

SUBTASK 35-00-00-100-003

(9) Immediately after the test, rub off the leak detection compound, G50306 or the Snoop Leak Detector compound, G00091 with a white cotton wiper, G00034.

SUBTASK 35-00-00-910-014

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

SUBTASK 35-00-00-910-015



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



DO NOT USE 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 NEAR PRESSURIZED OXYGEN.

(11) When you install a component in the oxygen system, make sure you remove the protective Flareless Tube Cap, 1/2-20 Thread, STD-1130.

SUBTASK 35-00-00-100-004



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.

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

NOTE: Oxygen clean fittings come from a sealed package and a label 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 35-00-00-420-008



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.

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

SUBTASK 35-00-00-410-004

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

SUBTASK 35-00-00-860-014



CLOSE THE OXYGEN SYSTEM VALVES SLOWLY. IF YOU CLOSE THE VALVES QUICKLY, THE TEMPERATURE OF THE OXYGEN CAN INCREASE. THIS CAN CAUSE A FIRE OR AN EXPLOSION.



DO NOT TIGHTEN THE SHUTOFF VALVE ON THE OXYGEN CYLINDER MORE THAN 25 POUND-INCHES. THIS CAN CAUSE DAMAGE TO THE SHUTOFF VALVE.

(15) When you close the valves in the oxygen system, close them slowly and only with your hand.

SUBTASK 35-00-00-860-015



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

- (16) When you open a shutoff valve, open it slowly and only with your hand.
 - (a) After you open a shutoff valve completely, close the shutoff valve one fourth of a turn.
 - (b) Attach an inspection MS20995CY20 lockwire, G02479 to hold the valve in this position (TASK 20-10-23-400-801).

SUBTASK 35-00-00-910-016



KEEP A GAP BETWEEN THE ELECTRICAL WIRING AND THE OXYGEN HOSES TO PREVENT CHAFFING. THIS CAN CAUSE DAMAGE TO THE ELECTRICAL WIRING OR OXYGEN HOSES.

(17) Keep a 2 inch gap between the oxygen hose and the electrical wiring when the oxygen boxes and mask stowage boxes are closed.

NOTE: If the gap is less than 2 inches, install a clamp hose around the wiring as necessary to prevent chaffing.

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SUBTASK 35-00-00-420-009



DO NOT INSTALL THE LOW PRESSURE HOSES IN THE HIGH PRESSURE SYSTEM. THE OXYGEN HOSE COULD BURST OR CATCH FIRE, WHICH CAN CAUSE INJURY TO PERSONS AND DAMAGE TO EQUIPMENT.

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

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

SUBTASK 35-00-00-420-010

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

SUBTASK 35-00-00-610-003

- (20) To service the crew oxygen system, do one of these tasks:
 - (a) To service the crew oxygen cylinder by remote fill, do this task: (Crew Oxygen Cylinder Servicing - Remote Fill Panel, TASK 12-15-08-610-801).
 - (b) To replace the crew oxygen cylinder, do this task: (Crew Oxygen Cylinder Servicing Cylinder Replacement, TASK 12-15-08-900-801).

----- END OF TASK -----

TASK 35-00-00-840-801

4. Maintenance Practices

A. References

Reference	Title
20-10-23-400-801	Lockwire, Cotter Pins, and Lockrings - Installation (P/B 401)
20-11-00-910-801	Standard Torque Values (P/B 201)

B. Consumable Materials

Reference	Description	Specification
G02479	Lockwire - MS20995CY20, Copper - 0.020	NASM20995
	Inch (0.508 mm) Diameter	
G50263	Gloves - White Cotton Disposable	

C. Location Zones

Zone	Area
115	Area Outboard and Above Nose Landing Gear Wheel Well, Left
200	Upper Half of Fuselage

D. Procedure - Maintenance Practices

SUBTASK 35-00-00-910-017



EFFECTIVITY

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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) Before you remove and install oxygen system fittings, tubing, or components, do these steps:
 - (a) Obey the safety precautions before you do the maintenance.



- (b) Clean all tools, equipment, and fittings before you do the maintenance.
- (c) Put on lint free, nylon gloves, G50263 and clothing when you do the maintenance.



DO NOT TIGHTEN THE SHUTOFF VALVE ON THE OXYGEN CYLINDER TO A TORQUE OF MORE THAN 25 POUND-INCHES. THIS CAN CAUSE DAMAGE TO THE SHUTOFF VALVE.

(d) Close the shutoff valve (hand-tight) on the oxygen cylinder.

SUBTASK 35-00-00-870-003

(2) When it is possible, bleed the oxygen lines off through an oxygen mask before you do maintenance.

SUBTASK 35-00-00-870-004



OPEN THE CONNECTION SLOWLY. THE OXYGEN CAN RELEASE WITH A LARGE FORCE WHICH CAN CAUSE A FIRE. THIS CAN CAUSE INJURY TO PERSONS AND DAMAGE TO EQUIPMENT.

(3) 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 35-00-00-910-018

(4) Do these steps to disconnect hose connections from oxygen tubing, components, and fittings (Figure 202):



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 slowly loosen the fitting connections.



LOOSEN THE B-NUT BEFORE YOU REMOVE THE UNION CONNECTION. THE SLEEVE ON THE HOSE CONNECTION CAN STICK TO THE UNION CONNECTION. IF YOU DO NOT LOOSEN THE B-NUT FIRST, IT CAN PUSH UP AGAINST THE FERRULE, AND CAN CAUSE DAMAGE TO THE OXYGEN HOSE.

- (b) Remove the oxygen hose connections.
 - 1) Loosen the B-nut, but not more than one complete turn.
 - 2) Hold the ferrule and union in position.
 - 3) Put a side load on the fitting at approximately 90 degrees to the hose centerline. NOTE: A side load will break the sleeve loose from the union connection.
 - 4) Loosen the B-nut and disconnect it.

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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) As quickly as possible, do this task: (Installation of Threaded Caps on Open Oxygen Lines, TASK 35-00-00-420-801).

NOTE: Oxygen clean fittings come from a sealed package and a label 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 35-00-00-420-011

- (5) Do these steps to connect hose connections to oxygen tubing, components, and fittings (Figure 202):
 - (a) Align the ferrule with the union.
 - (b) Make sure that the sleeve is fully bottomed against the fitting.
 - (c) Start the B-nut with your fingers.



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

- (d) Use two wrenches to slowly tighten the fitting connections.
- (e) Tighten the B-nut until it bottoms against the sleeve shoulder with the standard torque (TASK 20-11-00-910-801).

SUBTASK 35-00-00-860-016

(6) Do these steps to put the airplane back to its usual condition:



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

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

NOTE: The shutoff valve will be fully open after approximately 6 turns in a counterclockwise direction.

- (b) Close the valve one guarter of a turn.
- (c) To examine the repaired area for leakage, do this task: (Leak Detection, TASK 35-00-00-790-801).
- (d) Attach an inspection MS20995CY20 lockwire, G02479 to hold the valve in the open position (TASK 20-10-23-400-801).

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TASK 35-00-00-790-801

5. Leak Detection

A. Consumable Materials

Reference	Description	Specification
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	BMS15-5 Class A
G00091	Compound - Oxygen System Leak Detection - Snoop Leak Detector	MIL-PRF-25567
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

B. Location Zones

Zone	Area
115	Area Outboard and Above Nose Landing Gear Wheel Well, Left
200	Upper Half of Fuselage

C. Procedure - Leak Detection

SUBTASK 35-00-00-790-004

- (1) Do the leak detection procedure:
 - (a) Apply the leak detection compound, G50306 to find small leaks.
 - (b) Examine all the connections for bubbles.
 - (c) Use a mirror and a light when necessary to examine areas that are not easy to see.
 - (d) Rub off the leak detection compound, G50306 or Snoop Leak Detector compound, G00091with a clean cotton wiper, G00034 immediately after the test.
 - (e) Seal the pipe thread with Nitto P-412 tape, G50310, if it is necessary:
 - 1) 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.
 - 2) Apply 1 1/2 turns of the Nitto P-412 tape, G50310, pulled tight, to the pipe threads.
 - 3) Make sure the Nitto P-412 tape, G50310 does not have an overlap with the internal fitting end.
 - (f) If you cannot stop a leak replace the bad part.

------ END OF TASK ------

TASK 35-00-00-420-801

6. Installation of Threaded 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. Location Zones

Zone	Area
115	Area Outboard and Above Nose Landing Gear Wheel Well, Left

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(Continued)

Zone	Area
200	Upper Half of Fuselage

C. Installation of Threaded Caps on Open Oxygen Lines

NOTE: These steps are to be done each time that an oxygen line stays open.

SUBTASK 35-00-00-910-019



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) Install a Flareless Tube Cap, 1/2-20 Thread, STD-1130 or Flareless Tube Plug, 1/2-20 Thread, STD-1131 to the open oxygen lines in 5 minutes.

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.

SUBTASK 35-00-00-210-009

(2) Make sure that the threads are clean.

SUBTASK 35-00-00-400-010

(3) Tighten the Flareless Tube Cap, 1/2-20 Thread, STD-1130 or the Flareless Tube Plug, 1/2-20 Thread, STD-1131 with your fingers.

SUBTASK 35-00-00-910-021

(4) When the Flareless Tube Cap, 1/2-20 Thread, STD-1130 or Flareless Tube Plug, 1/2-20 Thread, STD-1131 are removed, Install parts to the open oxygen lines in 5 minutes or less.



TASK 35-00-00-210-801

7. Crew Oxygen Pressure - Transit Check

A. Location Zones

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

B. Procedure

SUBTASK 35-00-00-910-024

(1) Read and obey the safety precautions and general instructions before you do the maintenance (TASK 35-00-00-910-801).

SUBTASK 35-00-00-860-019

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

SUBTASK 35-00-00-710-004

(3) Push the LWR CTR switch on the display select panel, which is on the right side of the glareshield (in the flight compartment).

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SUBTASK 35-00-00-710-005

(4) Push the STAT switch on the display select panel, which is on the right side of the glareshield panel (in the flight compartment).

SUBTASK 35-00-00-210-020

EFFECTIVITY -

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(5) Make sure that the pressure shown on the STATUS display of the multifunction display (MFD) is above the minimum pressure necessary for dispatch. Contact your Flight Operations organization for the minimum dispatch pressure for each route flown.

NOTE: You must contact your Flight Operations organization for the minimum dispatch pressures for each route flown. Oxygen pressure tables vs. 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.

——— END OF TASK ———



OXYGEN - CLEANING/PAINTING

1. General

- A. This procedure contains one task:
 - (1) Oxygen System Component Cleaning.

TASK 35-00-00-100-801

2. Oxygen System Component Cleaning

(Figure 701)

A. General

- (1) These Boeing Standard Overhaul Practices Manuals supply more data for the cleaning of parts used in oxygen systems:
 - General Cleaning (SOPM 20-30-03)
 - Solvents for General Cleaning of Metals (SOPM 20-30-80)
 - Solvents for Final Cleaning of Oxygen System Components (SOPM 20-30-96)
 - Protection, Storage and Handling of Airplane Components (SOPM 20-70-01)

B. References

Reference	Title
20-30-96-910-801	Final Cleaning of Oxygen Components Exposed to Oxygen (Series 96) (P/B 201)
35-00-00-420-801	Installation of Threaded Caps on Open Oxygen Lines (P/B 201)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
SOPM 20-30-03	General Cleaning Procedures
SOPM 20-30-80	Solvents For General Cleaning of Metal (Series 80)
SOPM 20-30-96	Solvents For Final Cleaning of Oxygen System Components (Series 96)
SOPM 20-70-01	Protection, Storage, and Handling of Airplane Components

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
B01016	Solvent - Final Cleaning Of Oxygen Components Exposed To Oxygen - Series 96	
B50201	Wipe - Alcohol (Isopropyl Alcohol)	
G00018	Nitrogen - Gaseous, Pressurizing, 99.5 Percent Pure	A-A-59503 Type I Grade B, MIL-PRF-27401 Type I Grade A
G00834	Cloth - Lint-free Cotton	

E. Location Zones

Zone	Area
112	Area Forward of Nose Landing Gear Wheel Well
115	Area Outboard and Above Nose Landing Gear Wheel Well, Left

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(Continued)

Zone	Area
200	Upper Half of Fuselage

F. Procedure

SUBTASK 35-00-00-910-007

(1) Read and obey the safety precautions and general instructions before you do the maintenance (TASK 35-00-00-910-801).

SUBTASK 35-00-00-140-001

- (2) To clean components that need only light surface cleaning:
 - (a) Rub with a clean, dry lint-free cloth, G00834.
 - (b) If more surface cleaning of the component is necessary:
 - 1) Remove the unwanted material with alcohol wipes, B50201 or a lint-free cloth, G00834, and a Series 96 solvent, B01016 (Final Cleaning of Oxygen Components Exposed to Oxygen (Series 96), TASK 20-30-96-910-801). Then rub the area dry with a clean lint-free cloth, G00834.

SUBTASK 35-00-00-110-002



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

- (3) To clean the subassembly components:
 - (a) Disassemble or remove the components.
 - (b) Use the instructions in the manufacturers overhaul manual to clean the components.
 - (c) Use the procedures supplied by the SOPM 20-30-03 to clean oxygen tubes and fittings, and the caps and plugs used in oxygen systems.
 - (d) Clean the thermal compensators by the ultrasonic or vapor grease removal procedure).

SUBTASK 35-00-00-140-002

(4) Once a component has been cleaned, remove the surface lint, or moisture with nitrogen, G00018 or air.

SUBTASK 35-00-00-550-001

- (5) Return to storage the components that are not installed on the airplane:
 - NOTE: Oxygen clean fittings come from a sealed package and a label 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) Immediately put the Standard BAC, NAS, AN and MS fittings that have been cleaned in individually sealed polyethylene bags.

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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 Flareless Tube Cap, 1/2-20 Thread, STD-1130 or Flareless Tube Plug, 1/2-20 Thread, STD-1131 on the open line, TASK 35-00-00-420-801.
 - NOTE: Oxygen clean fittings come from a sealed package and a label 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.
 - 1) Use the protective Flareless Tube Cap, 1/2-20 Thread, STD-1130 or Flareless Tube Plug, 1/2-20 Thread, STD-1131 on the standard BAC, NAS, AN and MS fittings that were sealed in polyethylene bags.
 - 2) You can use protective caps that are visually clean on B-nuts and other fittings:
 - a) If the protective Flareless Tube Cap, 1/2-20 Thread, STD-1130 do not touch the threads or they do not get plastic threads inside the oxygen system.
 - 3) Do not use a protective Flareless Tube Cap, 1/2-20 Thread, STD-1130 or Flareless Tube Plug, 1/2-20 Thread, STD-1131 that is not clean.
 - 4) A protective metal Flareless Tube Plug, 1/2-20 Thread, STD-1131 can be used again if it was cleaned.
 - 5) Do not use a Flareless Tube Plug, 1/2-20 Thread, STD-1131 which could get manually pushed down into the tubes.
 - 6) Make sure the protective Flareless Tube Cap, 1/2-20 Thread, STD-1130 and Flareless Tube Plug, 1/2-20 Thread, STD-1131 are sealed in polyethylene bags, and do not open the bags until you are ready to use the Flareless Tube Cap, 1/2-20 Thread, STD-1130 and Flareless Tube Plug, 1/2-20 Thread, STD-1131.
- (c) Seal all tube assemblies or tube assembly ends in polyethylene bags.

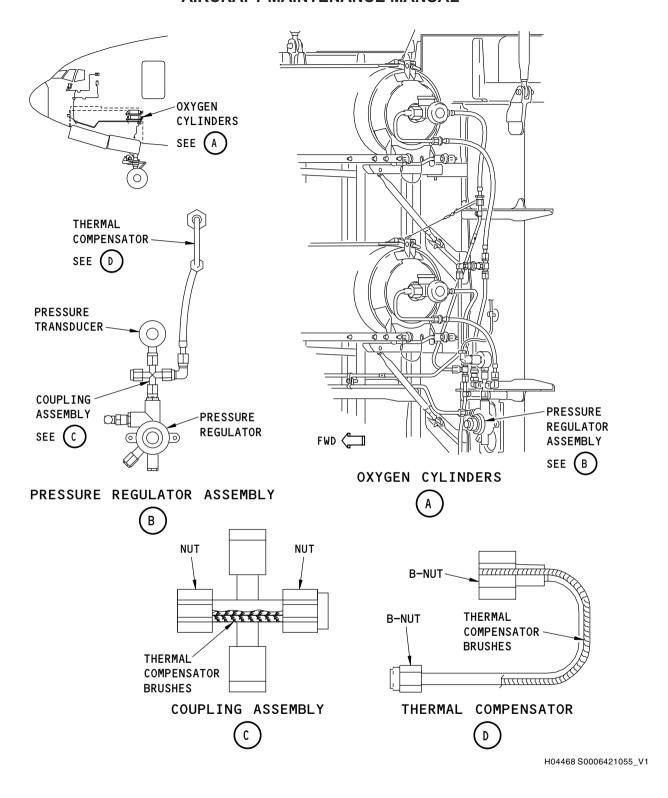
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Thermal Compensator Assembly Cleaning Figure 701/35-00-00-990-804

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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 Guide (DDG). These tasks prepare the airplane for flight with certain systems/components 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 35-11-1 (DDG) Preparation Crew Oxygen System Inoperative
 - (2) MMEL 35-11-1 (DDG) Restoration Crew Oxygen System Inoperative.
 - (3) MMEL 35–21–02 (DDG) Preparation Passenger Oxygen Service Units (Passenger) Inoperative.
 - (4) MMEL 35-21-02 (DDG) Restoration Passenger Oxygen Service Units (Passenger) Inoperative.
 - (5) MMEL 35–21–05 (DDG) Preparation Crew/Attendant Rest Oxygen Modules (Passenger) Inoperative.
 - (6) MMEL 35–21–05 (DDG) Restoration Crew/Attendant Rest Oxygen Modules (Passenger) Inoperative.
 - (7) MMEL 35-22-01 (DDG) Preparation Passenger Oxygen Pressure Indication System (Gaseous)
 - (8) MMEL 35-22-01 (DDG) Restoration Passenger Oxygen Pressure Indication System (Gaseous)
 - (9) MMEL 35-31-01 (DDG) Preparation Portable Oxygen Dispensing Units (Or Equivalent) (Bottle and Mask)
 - (10) MMEL 35-31-01 (DDG) Restoration Portable Oxygen Dispensing Units (Or Equivalent) (Bottle and Mask)
 - (11) MMEL 35-31-02 (DDG) Preparation Protective Breathing Equipment (PBE) Inoperative (EASA)
 - (12) MMEL 35-31-02 (DDG) Restoration Protective Breathing Equipment (PBE) Inoperative (EASA)

TASK 35-00-00-040-801

2. MMEL 35-11-1 (DDG) Preparation - Crew Oxygen System Inoperative

A. General

(1) This task gives the maintenance steps which prepare the airplane for flight with the Crew Oxygen System Inoperative.

B. References

Reference	Title
35-11-00-710-803	Crew Oxygen Mask Stowage Box Test (Mask Stowed In
	Stowage Box) (P/B 501)

C. Location Zones

Zone	Area
115	Area Outboard and Above Nose Landing Gear Wheel Well, Left

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D. Crew Oxygen Pressure Indication Check

SUBTASK 35-00-00-210-002

(1) Make sure the shutoff valve on the crew oxygen cylinders is open.

SUBTASK 35-00-00-210-003

(2) Make sure the pressure shown on the crew oxygen cylinder is above the pressure necessary for the dispatch.

E. Crew Oxygen Bleed Valve Deactivation

SUBTASK 35-00-00-860-008

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

Right Power Management Panel, P210

Row	<u>Col</u>	Number	<u>Name</u>
Ν	4	C35600	OXY PRESS IND

SUBTASK 35-00-00-020-001

(2) Disconnect the electrical connector, DM35445 from the solenoid bleed valve.

NOTE: The bleed valve is located on the lower left side of the main equipment center, below and forward of the third step of the walkway.

SUBTASK 35-00-00-910-008

(3) Cap and stow the electrical wiring.

SUBTASK 35-00-00-860-009

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

Right Power Management Panel, P210

Row	Col	<u>Number</u>	<u>Name</u>
N	4	C35600	OXY PRESS IND

SUBTASK 35-00-00-210-006

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

SUBTASK 35-00-00-710-002

(6) Push the reset/test slide lever on the crew oxygen mask to the test position (TASK 35-11-00-710-803).

SUBTASK 35-00-00-710-003

(7) Push the emergency/test selector (red button) on the crew oxygen mask for 10 seconds.

SUBTASK 35-00-00-210-007

(8) Make sure the oxygen pressure shown on the EICAS does not decrease.



TASK 35-00-00-440-801

3. MMEL 35-11-1 (DDG) Restoration - Crew Oxygen System Inoperative

A. General

(1) This task puts the airplane back to its usual condition after operation with the Crew Oxygen System Inoperative.

B. References

Reference	Title
35-11-00-710-808	Bleed Valve Test (P/B 501)

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(Continued)

Reference	Title
35-11-03-000-801	Pressure Transducer Removal (P/B 401)
35-11-03-400-801	Pressure Transducer Installation (P/B 401)

C. Location Zones

Zone	Area
115	Area Outboard and Above Nose Landing Gear Wheel Well, Left

D. Crew Oxygen Pressure Indication Restoration

SUBTASK 35-00-00-210-004

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

SUBTASK 35-00-00-710-001

(2) Make sure the voltage output of the pressure transducer is in the range on Table 1.

Table 901/35-00-00-993-811

Pressure Transducer Voltage Output			
	Oxygen Pressure PSIG	Voltage DC	
500		0.89 - 1.34	
1000		2.02 - 2.46	
1500		3.14 - 3.58	
2000		4.25 - 4.70	

SUBTASK 35-00-00-900-002

(3) If the output voltage is not in the range on Table 1, replace the pressure transducer.

These are the tasks:

Pressure Transducer Removal, TASK 35-11-03-000-801

Pressure Transducer Installation, TASK 35-11-03-400-801

SUBTASK 35-00-00-810-001

- (4) Go to the Observed Faults List at the front of the FIM.
 - (a) Find the fault description, PASS OXYGEN switch has failed.
 - (b) Find the task number on the same line as the fault description.
 - (c) Go to the task in the FIM and do the steps in the task.

SUBTASK 35-00-00-210-005

(5) Make sure the pressure on the EICAS is approximately the same pressure that is on the crew oxygen cylinder.

E. Crew Oxygen Bleed Valve Reactivation

SUBTASK 35-00-00-860-010

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

Right Power Management Panel, P210

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Ν	4	C35600	OXY PRESS IND

SUBTASK 35-00-00-020-002

(2) Pull the wiring from its installed position.

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SUBTASK 35-00-00-020-003

(3) Remove the cap from the electrical wiring.

SUBTASK 35-00-00-420-007

(4) Connect electrical wiring to the bleed valve.

SUBTASK 35-00-00-860-011

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

Right Power Management Panel, P210

Row	<u>Col</u>	Number	<u>Name</u>
N	4	C35600	OXY PRESS IND

SUBTASK 35-00-00-860-012

(6) Do this task: Bleed Valve Test, TASK 35-11-00-710-808.

----- END OF TASK -----

TASK 35-00-00-040-803

4. DDG 35-21-02 Preparation - Passenger Oxygen Service Units (Passenger) Inoperative

A. General

(1) This task gives the maintenance steps which prepare the airplane for flight with the Passenger Oxygen Service Unit (Passenger) that will not operate.

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Passenger Oxygen Service Unit Deactivation

SUBTASK 35-00-00-040-005

- (1) Do the steps that follow to block access to the unusable seats.
 - (a) If required, tapes or ropes of conspicuous contrasting colors must be installed to block access to unusable seats prior to boarding of passengers.
 - (b) Conspicuous signs or placards shall be placed in appropriate locations to indicate seats which are not to be occupied by passengers or flight attendants.



TASK 35-00-00-440-802

5. DDG 35-21-02 Restoration - Passenger Oxygen Service Units (Passenger) Inoperative

A. General

(1) This task puts the airplane back to its usual condition after operation with a Passenger Oxygen Service Unit(s) (Passenger) inoperative.

B. Location Zones

Zone	Area	
200	Upper Half of Fuselage	

C. Passenger Oxygen Service Unit Activation

SUBTASK 35-00-00-440-001

- (1) Remove the following items:
 - (a) Remove tapes or ropes that were installed to block access to seats.

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(b)	Remove signs or	placards t	hat indicate	which seats	are not to	be occur	oied.
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END	OE	TASK	
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TASK 35-00-00-040-805

6. DDG 35-21-05 Preparation - Crew/Attendant Rest Oxygen Modules (Passenger) Inoperative

A. General

(1) This task gives the maintenance steps which prepare the airplane for flight with the Crew/Attendant Rest Oxygen Modules that do not operate.

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Seat Module Deactivation

SUBTASK 35-00-00-040-009

(1) Put signs or placards in view at applicable locations to show seat(s) which are not to be used by the cabin crew.

D. Bunk Module Deactivation

SUBTASK 35-00-00-040-010

(1) Put signs or placards in applicable locations to show which bunk(s) are not to be used by the cabin crew.

E. Vanity Module (Includes Sink With Drink Storage Area)

SUBTASK 35-00-00-040-011

(1) Put signs or placards in applicable locations to show which vanity is not to be used.



TASK 35-00-00-440-805

7. DDG 35-21-05 Restoration - Crew/Attendant Rest Oxygen Modules (Passenger) Inoperative

A. General

(1) This task puts the airplane back to its usual condition after operation with a Crew/Attendant rest Oxygen Module (Passenger) that does not operate.

B. Location Zones

Zone	Area	
200	Upper Half of Fuselage	

C. Seat Module Activation

SUBTASK 35-00-00-440-005

(1) Remove the signs or placards from the seat(s) that can operate.

D. Bunk Module Activation

SUBTASK 35-00-00-440-006

(1) Remove the signs, placards, barrier strap, or rope from the bunks that can operate.

E. Vanity Module Activation

SUBTASK 35-00-00-440-007

(1) Remove the signs, placards, barrier straps, or rope from the vanity entrance that can operate.

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TASK 35-00-00-040-802

8. DDG 35-22-01 Preparation - Passenger Oxygen Pressure Indication System (Gaseous) Inoperative (Figure 901)

A. General

(1) This task gives the maintenance steps which prepare the airplane for flight with the Passenger Oxygen Pressure Indication System inoperative.

B. Consumable Materials

Reference	Description	Specification
G02479	Lockwire - MS20995CY20, Copper - 0.020	NASM20995
	Inch (0.508 mm) Diameter	

C. Location Zones

Zone	Area
152	Aft Cargo Compartment, Right

D. Prepare for Passenger Oxygen System Pressure Reading

SUBTASK 35-00-00-040-001

- (1) Verify there is sufficient oxygen supply and that the associated oxygen shutoff valves are open before each departure.
 - (a) Gain access to the associated Passenger Oxygen Cylinders. They are located on the right hand sidewall, forward of the lower aft cargo door.
 - 1) Remove the sidewall liner if necessary.

E. Passenger Oxygen System Pressure Reading

SUBTASK 35-00-00-040-002

- (1) Observe the Passenger Oxygen System pressure reading on the direct reading gauge on each oxygen cylinder.
 - (a) Verify that the average of the readings on each direct reading gauge meets the minimum required for the flight.

<u>NOTE</u>: The minimum average of the oxygen pressure readings is determined by flight planning.

SUBTASK 35-00-00-040-003

- (2) Verify that the associated oxygen cylinder shut off valves are open.
 - (a) Install MS20995CY20 lockwire, G02479.

F. Put the Airplane Back to Its Usual Condition

SUBTASK 35-00-00-040-004

- (1) Install the lower aft cargo compartment liner.
- (2) Close the lower aft cargo compartment door.

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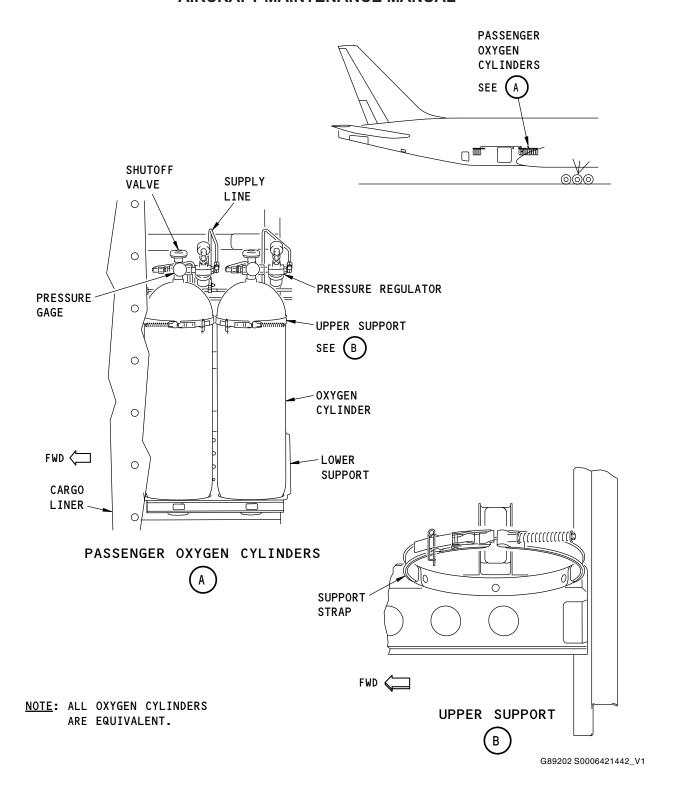
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Passenger Oxygen Cylinder Assembly Figure 901/35-00-00-990-815





TASK 35-00-00-440-803

9. DDG 35-22-01 Restoration - Passenger Oxygen Pressure Indication System (Gaseous) Inoperative

A. General

(1) This task puts the airplane back to its usual condition after operation with a Passenger Oxygen Pressure Indication System (Gaseous) inoperative.

B. Consumable Materials

Reference	Description	Specification
G02479	Lockwire - MS20995CY20, Copper - 0.020	NASM20995
	Inch (0.508 mm) Diameter	

C. Location Zones

Zone	Area
152	Aft Cargo Compartment, Right

D. Passenger Oxygen Pressure Indication System (Gaseous) Repair

SUBTASK 35-00-00-440-002

- (1) Do these steps to correct the fault:
 - (a) Find the fault code or description of the fault that occurred.
 - (b) If you find a fault code, then do these steps:
 - Go to the Fault Code Index in the FIM and find the fault code (the first two digits of the fault code are the FIM chapter).
 - 2) Find the task number on the same line as the fault code.
 - 3) Go to the task in the FIM, and do the steps in the task.
 - (c) If you find a description of the fault, then do these steps:
 - 1) Go to the Observed Fault List at the start of the FIM, and find the best description for the fault.
 - 2) Find the task number on the same line as the fault description.
 - 3) Go to the task in the FIM, and do the steps in the task.

E. Passenger Oxygen Pressure Indication System (Gaseous) Activation

SUBTASK 35-00-00-440-003

- (1) Make sure that the valves on the oxygen cylinders are fully open.
 - (a) Install the MS20995CY20 lockwire, G02479.



TASK 35-00-00-040-804

10. <u>DDG 35-31-01 Preparation - Portable Oxygen Dispensing Units (Or Equivalent) (Bottle and Mask) Inoperative</u>

A. General

(1) This task gives the maintenance steps which prepare the airplane for flight with the Portable Oxygen Dispensing Units (Or Equivalent) (Bottle and Mask) inoperative.

B. Location Zones

Zone Area	
200	Upper Half of Fuselage

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C. Prepare for Deactivation

SUBTASK 35-00-00-040-006

- (1) Make sure that the required distribution of serviceable, portable oxygen dispensing units is maintained throughout the airplane.
- D. Portable Oxygen Dispensing Units (Or Equivalent) (Bottle and Mask) Deactivation

SUBTASK 35-00-00-040-007

(1) The inoperative units are to be obscured or properly stowed in a location that prevents their use

SUBTASK 35-00-00-040-008

(2) The inoperative units shall be removed from the airplane at the next available maintenance base.



TASK 35-00-00-440-804

11. <u>DDG 35-31-01 Restoration - Portable Oxygen Dispensing Units (Or Equivalent) (Bottle and Mask)</u> Inoperative

A. General

(1) This task puts the airplane back to its usual condition after operation with a Portable Oxygen Dispensing Units (Or Equivalent) (Bottle and Mask) inoperative.

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Portable Oxygen Dispensing Units (Or Equivalent) (Bottle and Mask) Activation

SUBTASK 35-00-00-440-004

- (1) Install the required quantity of serviceable Portable Oxygen Dispensing Units (Or Equivalent) (Bottle and Mask).
 - (a) Make sure that the Portable Oxygen Dispensing Units (Or Equivalent) (Bottle and Mask) are stowed in the correct locations.



TASK 35-00-00-040-810

12. DDG 35-31-02 Preparation - Protective Breathing Equipment (PBE) Inoperative (EASA)

A. General

- (1) This task gives the maintenance steps which prepare the airplane for flight with the protective breathing equipment (PBE) inoperative.
 - (a) This procedure is only for aircraft using the EASA MMEL. DDG Maintenance procedures with no regulatory authority identification in the procedure title apply to both FAA and EASA MMELs.

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

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C. Prepare for Deactivation

SUBTASK 35-00-00-860-027

(1) Make sure that the required distribution of operative PBE units is maintained throughout the airplane.

D. Protective Breathing Equipment (PBE) Deactivation

SUBTASK 35-00-00-020-006

(1) Remove the inoperative PBE unit from the airplane or placard it INOPERATIVE and secure it out of sight in an approved location.

NOTE: Dangerous goods requirements must be considered when determining an approved location.

SUBTASK 35-00-00-420-027

(2) Placard the installed location INOPERATIVE.



TASK 35-00-00-440-809

13. DDG 35-31-02 Restoration - Protective Breathing Equipment (PBE) Inoperative (EASA)

A. General

- (1) This task puts the airplane back to its usual condition after operation with a protective breathing equipment (PBE) inoperative.
 - (a) This procedure is only for aircraft using the EASA MMEL. DDG Maintenance procedures with no regulatory authority identification in the procedure title apply to both FAA and EASA MMELs.

B. Location Zones

Zone	Area	
200	Upper Half of Fuselage	

C. Protective Breathing Equipment (PBE) Activation

SUBTASK 35-00-00-420-026

(1) Install an operative PBE unit.

SUBTASK 35-00-00-020-007

(2) If necessary, remove the inoperative PBE unit that was placarded INOPERATIVE and secured out of sight in an approved location.

SUBTASK 35-00-00-860-028

(3) Make sure that the new PBE unit is stowed in the correct location.

SUBTASK 35-00-00-020-008

(4) Remove the INOPERATIVE placard from the installed location.

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CREW OXYGEN SYSTEM - MAINTENANCE PRACTICES

1. General

- A. This procedure has these tasks:
 - (1) Crew oxygen system Deactivation
 - (2) Crew oxygen system Activation

TASK 35-11-00-040-801

2. Crew Oxygen System - Deactivation

- A. General
 - (1) This task deactivates the crew oxygen system.
- B. References

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

C. Location Zones

Zone	Area
115	Area Outboard and Above Nose Landing Gear Wheel Well, Left
211	Flight Compartment, Left
212	Flight Compartment, Right

D. Access Panels

Number	Name/Location
117AL	Main Equipment Center Access Door

E. Procedure

SUBTASK 35-11-00-910-060

(1) Read and obey the safety precautions and general instructions before you do the maintenance (TASK 35-00-00-910-801).

SUBTASK 35-11-00-010-005

(2) Open this door:

<u>Number</u>	Name/Location
117AL	Main Equipment Center Access Door

SUBTASK 35-11-00-860-091



BE CAREFUL WHEN YOU DO WORK AROUND ENERGIZED PANELS. HIGH VOLTAGES CAN KILL YOU.

(3) Open this circuit breaker:

Right Power Management Panel, P210

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Ν	4	C35600	OXY PRESS IND

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SUBTASK 35-11-00-860-092



DO NOT TIGHTEN THE SHUTOFF VALVE ON THE OXYGEN CYLINDER MORE THAN 25 POUND-INCHES. THIS CAN CAUSE DAMAGE TO THE SHUTOFF VALVE.

(4) Close the shutoff valves on the crew oxygen cylinders slowly

NOTE: Some airplanes have more than one crew oxygen cylinder.

F. Crew Oxygen System - Tryout

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

SUBTASK 35-11-00-860-093

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

Right Power Management Panel, P210

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
N	4	C35600	OXY PRESS IND

SUBTASK 35-11-00-700-001

- (2) Do a test of the crew oxygen system:
 - (a) Push the LWR CTR switch on the display select panel, which is on the right side of the glareshield (in the flight compartment).
 - (b) Push the STAT switch on the display select panel, which is on the right side of the glar-shield panel (in the flight compartment).
 - Make sure that the pressure indication on the STATUS display of the multi-function display (MFD) is zero.

——— END OF TASK ———

TASK 35-11-00-440-801

3. Crew Oxygen System - Activation

A. General

(1) This task activates the crew oxygen system.

B. References

Reference	Title
20-10-23-400-801	Lockwire, Cotter Pins, and Lockrings - Installation (P/B 401)

C. Consumable Materials

Reference	Description	Specification
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	BMS15-5 Class A
G02479	Lockwire - MS20995CY20, Copper - 0.020 Inch (0.508 mm) Diameter	NASM20995
G50306	Compound - Leak Detection, Oxygen System	MIL-PRF-25567 (BAC5402)

D. Location Zones

Zone	Area
115	Area Outboard and Above Nose Landing Gear Wheel Well, Left
211	Flight Compartment, Left

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(Continued)

Zone	Area
212	Flight Compartment, Right

E. Access Panels

7.0000 7 4.11010			
Number	Name/Location		
117AL	Main Equipment Center Access Door		

F. Procedure

SUBTASK 35-11-00-860-094



YOU MUST OPEN THE SHUTOFF VALVE SLOWLY, OR HIGH TEMPERATURES CAN OCCUR. THIS CAN START AN IGNITION WITH THE OXYGEN AND CAN CAUSE INJURY TO PERSONS AND DAMAGE TO THE EQUIPMENT.

- (1) Slowly open the shutoff valves on the crew oxygen cylinders to full open.
 - (a) Close the shutoff valve one fourth of a turn.
 - (b) Attach an inspection MS20995CY20 lockwire, G02479 to hold the valve in this position (TASK 20-10-23-400-801).

SUBTASK 35-11-00-200-006

(2) Do a check of the connections, B-nut [3], and B-nut [5] for leaks with leak detection compound, G50306.

SUBTASK 35-11-00-100-001

(3) Rub the leak detection compound, G50306 off with a clean cotton wiper, G00034 immediately after you do the check.

SUBTASK 35-11-00-860-095



BE CAREFUL WHEN YOU DO WORK AROUND ENERGIZED PANELS. HIGH VOLTAGES CAN KILL YOU.

(4) Close this circuit breaker:

Right Power Management Panel, P210

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Ν	4	C35600	OXY PRESS IND

SUBTASK 35-11-00-410-008

(5) Close this door:

<u>Number</u>	Name/Location
117AL	Main Equipment Center Access Door

SUBTASK 35-11-00-700-002

- (6) Do a test of the crew oxygen system:
 - (a) Push the LWR CTR switch on the display select panel, which is on the right side of the glareshield (in the flight compartment).
 - (b) Push the STAT switch on the display select panel, which is on the right side of the glareshield panel (in the flight compartment).

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1)	Make sure that the pressure indication on the STATUS display of the multi-function
	display (MFD) is the same as the oxygen cylinder gage.

----- 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 System Pressure Indication Test
 - (2) Bleed Valve Test
 - (3) Pressure Regulator Test
 - (4) Crew Oxygen Mask Stowage Box Test (Mask Stowed In Stowage Box)
 - (5) Crew Oxygen Mask Regulator/Microphone Test
 - (6) Crew Oxygen System Leak Test
- C. The crew oxygen system pressure indication test is a pressure indication consistency check procedure. It is used to confirm that the crew oxygen cylinder pressure indication on the STATUS display of the multifunction display (MFD) is consistent (±100 psig) with the pressure gage indication on the crew oxygen cylinder.
- D. The bleed valve test is used to confirm that the CREW OXY LOW message is shown on EICAS in a simulated low cylinder pressure test.
- E. The pressure regulator test is used to confirm that the pressure supplied to the crew oxygen mask stowage boxes are in the correct pressure range.
- F. The crew oxygen mask stowage box test (mask stowed in stowage box) and the crew oxygen mask regulator/microphone test is used to confirm that the mask stowage box, mask regulator and microphone operates correctly.
- G. The crew oxygen system leak test does a pressure test of the crew oxygen supply line and remote fill line to examine for leaks.

TASK 35-11-00-710-802

2. Crew Oxygen Pressure Indication Test

(Figure 501)

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
115	Area Outboard and Above Nose Landing Gear Wheel Well, Left
211	Flight Compartment, Left
212	Flight Compartment, Right

C. Procedure

SUBTASK 35-11-00-910-002

(1) Read and obey the safety precautions and general instructions before you do the maintenance (TASK 35-00-00-910-801).

SUBTASK 35-11-00-860-006

(2) Make sure the shutoff valve on each of the crew oxygen cylinders are open.

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SUBTASK 35-11-00-710-002

(3) Push the LWR CTR switch on the display select panel, which is on the right side of the glareshield (in the flight compartment).

SUBTASK 35-11-00-710-003

(4) Push the STAT switch on the display select panel, which is on the right side of the glareshield panel (in the flight compartment).

SUBTASK 35-11-00-710-004

- (5) To make sure the system pressure indication is operational.
 - (a) Compare the pressure on the crew oxygen cylinders with pressure on the STATUS display of the multifunction display (MFD).

SUBTASK 35-11-00-710-005

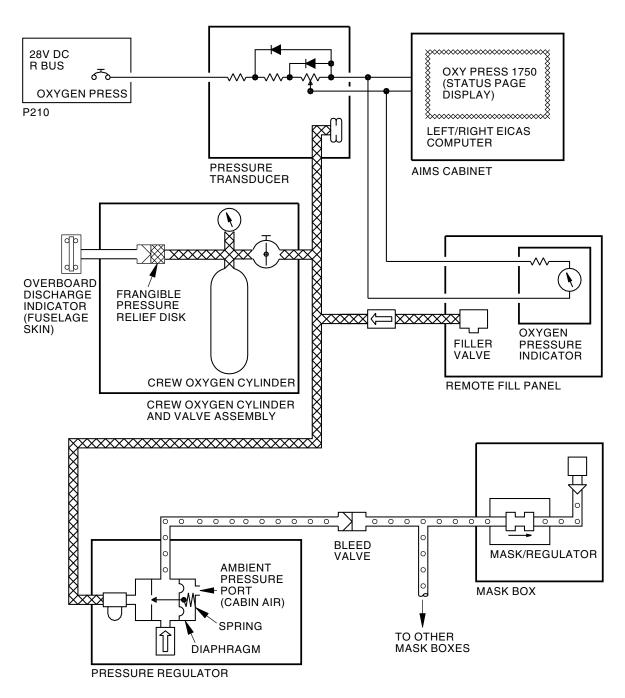
(6) Make sure the pressure on the status display is ± 100 psi of the pressure gage indication on the crew oxygen cylinders.

----- END OF TASK -----

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LEGEND:

HIGH PRESSURE OXYGEN

LOW PRESSURE OXYGEN

C37660 S0006421107_V2

Crew Oxygen System Schematic Figure 501/35-11-00-990-801

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TASK 35-11-00-710-808

3. Bleed Valve Test

(Figure 501)

A. References

Reference	Title
20-10-23-400-801	Lockwire, Cotter Pins, and Lockrings - Installation (P/B 401)
32-09-00-040-801	Air Mode Simulation - Preparation (P/B 201)
32-09-00-440-801	Air Mode Simulation - Restoration (P/B 201)
32-09-00-860-801	Air/Ground Mode Simulation (P/B 201)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)

B. Consumable Materials

Reference	Description	Specification
G02479	Lockwire - MS20995CY20, Copper - 0.020	NASM20995
	Inch (0.508 mm) Diameter	

C. Location Zones

Zone	Area
115	Area Outboard and Above Nose Landing Gear Wheel Well Left

D. Procedure

SUBTASK 35-11-00-910-025

(1) Read and obey the safety precautions and general instructions before you do the maintenance (TASK 35-00-00-910-801).

SUBTASK 35-11-00-210-017

(2) Make sure that the pressure at each of the crew oxygen cylinders is more than 1600 psi.

SUBTASK 35-11-00-710-046

(3) Push the LWR CTR switch on the right side of the glareshield panel.

SUBTASK 35-11-00-710-047

(4) Push the STAT switch on the right side of the glareshield panel.

SUBTASK 35-11-00-710-048

(5) Make sure that the pressure shown on the MFD is ± 200 psi of the pressure gage indication on the crew oxygen cylinders.

SUBTASK 35-11-00-710-049

(6) Close the shutoff valve on each of the crew oxygen cylinders.

SUBTASK 35-11-00-860-031

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

APU Auxiliary Panel, P49

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	4	C29621	RAT AUTO/MANUAL CONTROL

SUBTASK 35-11-00-860-032

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

Standby Power Management Panel, P310

<u>Row</u>	<u>C01</u>	<u>number</u>	<u>name</u>
L	11	C28650	APU INLET DOOR/FUEL SOV CTRL

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SUBTASK 35-11-00-710-050

(9) Do this task: Air Mode Simulation - Preparation, TASK 32-09-00-040-801.

SUBTASK 35-11-00-710-174

- (10) Do the steps in the sequence shown: (Air/Ground Mode Simulation, TASK 32-09-00-860-801)
 - (a) Put the left air/ground system in the air simulation mode.
 - (b) Put the left air/ground system in the ground simulation mode.
 - (c) Put the right air/ground system in the air simulation mode.
 - (d) Put the right air/ground system in the ground simulation mode.

SUBTASK 35-11-00-860-033

(11) Open these circuit breakers and install safety tags:

Overhead Circuit Breaker Panel, P11

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	1	C74401	L ENG STBY IGN 1
Α	2	C74407	L ENG STBY IGN 2
Α	5	C28001	L ENGINE FUEL SPAR VALVE
Α	14	C74400	R ENG STBY IGN 1
Α	15	C74406	R ENG STBY IGN 2
Α	19	C28002	R ENGINE FUEL SPAR VALVE
В	4	C76601	L ENG FUEL VALVE
В	19	C76600	R ENG FUEL VALVE
Е	1	C74403	L ENG IGN 1
Е	2	C74404	R ENG IGN 2
Е	14	C74405	L ENG IGN 2
E	15	C74402	R ENG IGN 1

SUBTASK 35-11-00-710-052

(12) Put the fuel control switch in the RUN position (L or R position) for a minimum of 6 minutes.

SUBTASK 35-11-00-710-053

(13) Make sure that the CREW OXY LOW message shows on the EICAS.

SUBTASK 35-11-00-710-054

(14) Push the STAT switch on the right side of the glareshield panel.

SUBTASK 35-11-00-710-055

(15) Make sure that the oxygen pressure shown on the MFD is less than 500 psi.

SUBTASK 35-11-00-710-056

(16) Put the fuel control switch to its initial position.

SUBTASK 35-11-00-860-034

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

Overhead Circuit Breaker Panel, P11

Row	Col	<u>Number</u>	<u>Name</u>
Α	1	C74401	L ENG STBY IGN 1
Α	2	C74407	L ENG STBY IGN 2
Α	5	C28001	L ENGINE FUEL SPAR VALVE
Α	14	C74400	R ENG STBY IGN 1
Α	15	C74406	R ENG STBY IGN 2

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(Continued)

Overhead Circuit Breaker Panel, P11

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	19	C28002	R ENGINE FUEL SPAR VALVE
В	4	C76601	L ENG FUEL VALVE
В	19	C76600	R ENG FUEL VALVE
Е	1	C74403	L ENG IGN 1
Е	2	C74404	R ENG IGN 2
Е	14	C74405	L ENG IGN 2
Ε	15	C74402	R ENG IGN 1

SUBTASK 35-11-00-860-035

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

APU Auxiliary Panel, P49

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	4	C29621	RAT AUTO/MANUAL CONTROL

SUBTASK 35-11-00-860-036

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

Standby Power Management Panel, P310

Row	Col	<u>Number</u>	<u>Name</u>
L	11	C28650	APU INLET DOOR/FUEL SOV CTRL

SUBTASK 35-11-00-710-051

(20) Do this task: Air Mode Simulation - Restoration, TASK 32-09-00-440-801.

SUBTASK 35-11-00-860-037



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

- (21) Slowly open the shutoff valve on each crew oxygen cylinder to full open.
 - (a) Close the shutoff valve one fourth of a turn.
 - (b) Attach an inspection MS20995CY20 lockwire, G02479 to hold the valve in this position (TASK 20-10-23-400-801).

----- END OF TASK -----

TASK 35-11-00-710-809

4. Pressure Regulator Test

(Figure 502)

A. References

Reference	Title
20-10-23-400-801	Lockwire, Cotter Pins, and Lockrings - Installation (P/B 401)
35-00-00-420-801	Installation of Threaded Caps on Open Oxygen Lines (P/B 201)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-11-18-000-801	Stowage Box Assembly Removal (P/B 201)
35-11-18-400-802	Stowage Box Assembly Installation (P/B 201)

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B. Tools/Equipment

Reference	Description
STD-1148	Gauge - Pressure, Dry Case, 0-150 PSIG (0-1035 KPa), 0.5% of full
	scale accuracy

C. Consumable Materials

Reference	Description	Specification
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	BMS15-5 Class A
G02479	Lockwire - MS20995CY20, Copper - 0.020 Inch (0.508 mm) Diameter	NASM20995
G50306	Compound - Leak Detection, Oxygen System	MIL-PRF-25567 (BAC5402)

D. Location Zones

Zone	Area
115	Area Outboard and Above Nose Landing Gear Wheel Well, Left

E. Pressure Test

SUBTASK 35-11-00-910-026

(1) Read and obey the safety precautions and general instructions before you do the maintenance (TASK 35-00-00-910-801).

SUBTASK 35-11-00-210-018

(2) Make sure that the pressure gage on each of the crew oxygen cylinders show more than 500 psig (3447 kPa).

SUBTASK 35-11-00-860-038



DO NOT TIGHTEN THE SHUTOFF VALVE ON EACH CREW OXYGEN CYLINDER BY MORE THAN 25 POUND-INCHES. THIS CAN CAUSE DAMAGE TO THE SHUTOFF VALVE.

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

SUBTASK 35-11-00-020-009



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) Remove one of the crew oxygen mask stowage boxes (TASK 35-11-18-000-801).

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

(a) As quickly as possible, do this task: (Installation of Threaded Caps on Open Oxygen Lines, TASK 35-00-00-420-801).

SUBTASK 35-11-00-480-008

(5) Connect a pressure gauge (0-150 PSIG), STD-1148 to the hose of the stowage box

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SUBTASK 35-11-00-860-039



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

(6) Slowly open the shutoff valve on each crew oxygen cylinder to full open.

SUBTASK 35-11-00-210-019

(7) Make sure that the pressure on the pressure gauge (0-150 PSIG), STD-1148 is

Oxygen Mask Inlet Pressure

Mask P/N	Inlet Pressure
ARO 001-014	
MF20-003	60 psig (414 kPa) to 85 psig (586 kPa)
ARO 015-999	
MF20-004	60 psig (414 kPa) to 85 psig (586 kPa)
ARO ALL	

SUBTASK 35-11-00-860-040

(8) Close the shutoff valve on each crew oxygen cylinder.

SUBTASK 35-11-00-080-004

Slowly disconnect the pressure gauge (0-150 PSIG), STD-1148 from the oxygen hose.

SUBTASK 35-11-00-420-007

(10) Connect the oxygen hose to the stowage box.

SUBTASK 35-11-00-860-041



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

- (11) Open the shutoff valve fully on each crew oxygen cylinder.
 - (a) Close the shutoff valve one fourth of a turn.
 - (b) Attach an inspection MS20995CY20 lockwire, G02479 to hold the valve in this position (TASK 20-10-23-400-801).

SUBTASK 35-11-00-790-010

(12) Do a check of the oxygen hose connection for leaks with leak detection compound, G50306.

SUBTASK 35-11-00-790-011

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

SUBTASK 35-11-00-420-008

(14) Do this task: (Stowage Box Assembly Installation, TASK 35-11-18-400-802.)

F. Regulator Flow Test

SUBTASK 35-11-00-200-005

(1) Get access to the crew oxygen pressure indication on the EICAS STATUS display.

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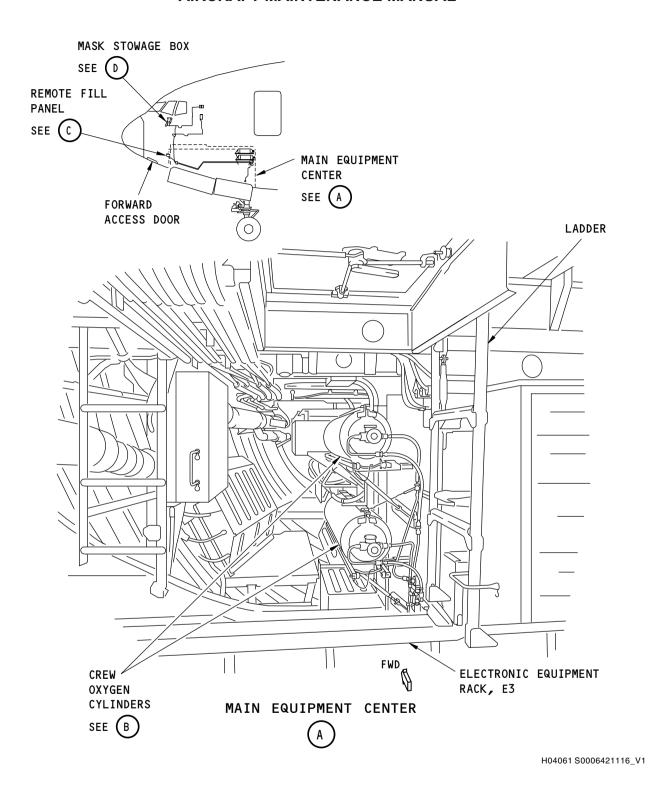
- (2) Get access to one of the crew oxygen mask boxes with the mask stowed and the oxygen box doors closed.
- (3) Push and hold the RESET/TEST switch on the oxygen box.
 - (a) Make sure that the yellow cross shows momentarily in the flow indicator.
- (4) Continue to hold the RESET/TEST switch on the oxygen box down and push the EMERGENCY/TEST selector on the crew mask for 5 seconds.
 - (a) Make sure that the yellow cross shows continuously in the flow indicator.
 - (b) Observe the crew oxygen pressure display on the EICAS STATUS message display.
 - 1) Make sure that the crew oxygen pressure indication does not decrease more than 50 psig (345 kPa).
 - Make sure that the crew oxygen pressure does not decrease quickly.
- (5) Release the RESET/TEST switch on the oxygen box and the EMERGENCY/TEST selector on the crew mask.
 - (a) Make sure that the crew oxygen pressure increases quickly back to its usual indication.
 - (b) Make sure that the yellow cross does not show in the flow indicator.
- (6) If the pressure indication on the EICAS STATUS display shows a decrease of more than 50 psi (345 kPa), make sure that the oxygen cylinder valve is fully open.
 - NOTE: If the oxygen cylinder valve is not fully open it can cause a decrease of more than 50 psi (345 kPa).
- (7) If the crew indication does not increase quickly to its usual indication or a slow decrease in pressure occurs, listen at the pressure regulator for a hissing noise.
 - (a) If there is a hissing noise, then replace the pressure regulator.



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Test Connections Figure 502/35-11-00-990-802 (Sheet 1 of 3)

EFFECTIVITY

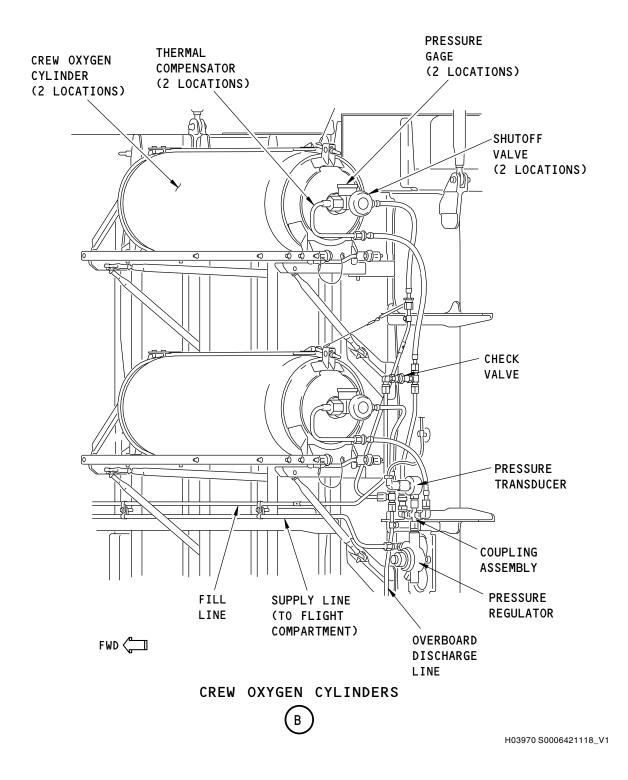
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Test Connections Figure 502/35-11-00-990-802 (Sheet 2 of 3)

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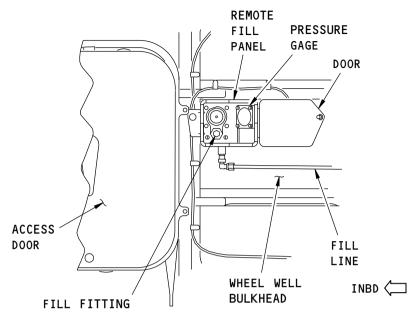
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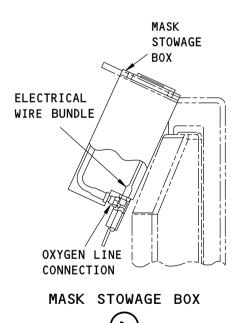
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REMOTE FILL PANEL





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Test Connections Figure 502/35-11-00-990-802 (Sheet 3 of 3)

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TASK 35-11-00-710-803

5. Crew Oxygen Mask Stowage Box Test (Mask Stowed In Stowage Box)

Figure 503

(Figure 503)

A. General

(1) It is necessary that all the mask stowage boxes are installed for this procedure. This is a standard test for each of the stowage boxes. To do a second mask stowage box, do the procedure again.

B. References

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

C. Location Zones

Zone	Area
115	Area Outboard and Above Nose Landing Gear Wheel Well, Left
211	Flight Compartment, Left
212	Flight Compartment, Right

D. Procedure

SUBTASK 35-11-00-910-003

(1) Read and obey the safety precautions and general instructions before you do the maintenance (TASK 35-00-00-910-801).

SUBTASK 35-11-00-860-009

(2) Make sure the shutoff valve on each of the crew oxygen cylinders are open.

SUBTASK 35-11-00-710-007

(3) Push and hold the Reset/Test Slide Lever, on the mask stowage box, to TEST.

SUBTASK 35-11-00-710-008

(4) Make sure the oxygen flow indicator, on the oxygen stowage box, shows a flow condition and then disappears (no flow).

SUBTASK 35-11-00-710-034

(5) Release the Reset/Test Slide Lever.

SUBTASK 35-11-00-710-035

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

NOTE: This step will open the shutoff valve.

SUBTASK 35-11-00-710-009

(7) Push the Emergency/Test Selector.

SUBTASK 35-11-00-710-036

(8) Make sure the flow of oxygen can be heard.

SUBTASK 35-11-00-710-045

(9) Make sure the flow blinker is visible.

SUBTASK 35-11-00-710-037

(10) Release the Emergency/Test Selector.

SUBTASK 35-11-00-710-038

(11) Make sure the flow blinker is not visible when the Emergency/Test Selector is released.

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SUBTASK 35-11-00-710-010

(12) Push the Normal/100% Switch to make sure that it operates.

SUBTASK 35-11-00-710-011

(13) Make sure the Normal/100% switch is set on the 100% position.

SUBTASK 35-11-00-710-039

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

SUBTASK 35-11-00-710-040

(15) Push the Reset/Test Slide Lever to Reset, this will reset the shutoff valve.

SUBTASK 35-11-00-710-012

(16) Do the same test for the other mask stowage boxes.

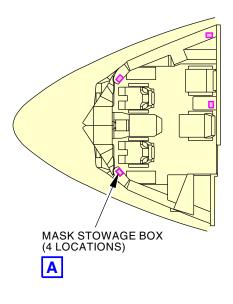
----- END OF TASK -----

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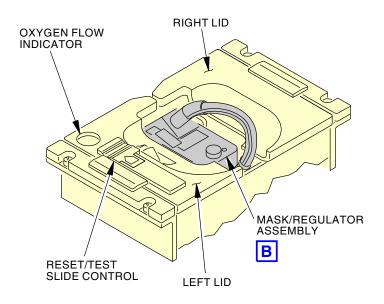
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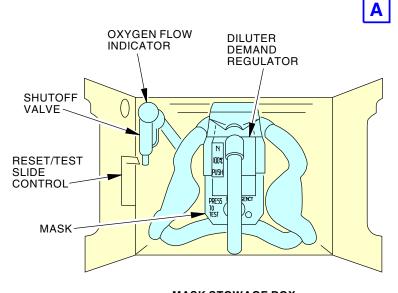








MASK STOWAGE BOX (EXAMPLE - LIDS CLOSED)



MASK STOWAGE BOX (EXAMPLE - LIDS OPEN)

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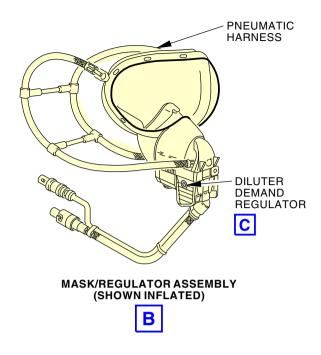
Mask/Regulator Assembly Figure 503/35-11-00-990-803 (Sheet 1 of 2)

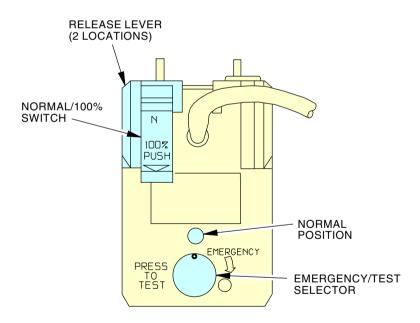
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DILUTER DEMAND REGULATOR



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Mask/Regulator Assembly Figure 503/35-11-00-990-803 (Sheet 2 of 2)

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TASK 35-11-00-710-804

6. Crew Oxygen Mask Regulator/Microphone Test

(Figure 503)

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)
35-11-18-400-803	Crew Oxygen Mask and Demand Regulator Stowage (P/B 201)

B. Consumable Materials

Reference	Description	Specification
B50201	Wipe - Alcohol (Isopropyl Alcohol)	

C. Location Zones

Zone	Area
115	Area Outboard and Above Nose Landing Gear Wheel Well, Left
211	Flight Compartment, Left
212	Flight Compartment, Right

D. Prepare to do the Test

SUBTASK 35-11-00-910-004

(1) Read and obey the safety precautions and general instructions before you do the maintenance (TASK 35-00-00-910-801).

SUBTASK 35-11-00-860-012

(2) Make sure the shutoff valve on each of the crew oxygen cylinders are open.

E. Do the Test

SUBTASK 35-11-00-010-001

(1) Remove the mask/regulator from the stowage box.

SUBTASK 35-11-00-710-013

(2) Hold the mask, and push and hold the release levers.

SUBTASK 35-11-00-710-014

(3) Make sure the oxygen flow indicator appears and then disappears.

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

SUBTASK 35-11-00-710-015

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

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

SUBTASK 35-11-00-710-016

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

SUBTASK 35-11-00-710-176

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

SUBTASK 35-11-00-710-017

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

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SUBTASK 35-11-00-710-018

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

SUBTASK 35-11-00-710-177

(9) Make sure you can breathe correctly.

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

SUBTASK 35-11-00-710-019

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

SUBTASK 35-11-00-710-175

- (11) Do these steps to test the oxygen mask microphone:
 - (a) Move the MIC/INT switch on the audio control panel to the INT position to test the captain, first officer, and first observer oxygen mask microphones.
 - (b) Talk into the microphone to make sure that your voice can be heard through the crew station speaker.
 - (c) Turn the SPKR volume on the audio control panel to adjust the volume.

SUBTASK 35-11-00-160-001

- (12) Clean the inside of the oral-nasal facepiece and face seal. Use the alcohol wipes, B50201. SUBTASK 35-11-00-420-027
- (13) Do the steps of this procedure that stow the mask and regulator in the oxygen box: Crew Oxygen Mask and Demand Regulator Stowage, TASK 35-11-18-400-803.



TASK 35-11-00-710-810

7. Crew Oxygen System Leak Test

(Figure 504)

A. General

- (1) The crew oxygen system leak test is divided into two parts:
 - (a) The Supply Line Leak Test (Part I), does a leak test of the supply line between the pressure regulator and the crew oxygen mask stowage boxes.
 - (b) The Fill Line Leak Test (Part II), does a leak test of the fill line between the check valve and the remote fill panel.

B. References

Reference	Title
20-10-23-400-801	Lockwire, Cotter Pins, and Lockrings - Installation (P/B 401)
35-00-00-420-801	Installation of Threaded Caps on Open Oxygen Lines (P/B 201)
35-00-00-790-801	Leak Detection (P/B 201)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)

C. Tools/Equipment

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

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Reference	Description
COM-1374	Union - Fitting, 5/16 Inch
	Part #: AS5230J0505A Supplier: 81205 Opt Part #: AS21902J5 Supplier: 88277 Opt Part #: MS21902J5 Supplier: 88277
COM-1543	Cart - Oxygen Bottle (Less Bottles)
	Part #: 20-4505-7000 Supplier: 59603 Part #: 7090-011 Supplier: 00994 Part #: NBOT Supplier: D2029 Opt Part #: 7090-010 Supplier: 00994 Opt Part #: 9761-010 Supplier: 00994
COM-13360	Hose - Assembly, Oxygen
	Part #: 38001-81 Supplier: 24984
STD-985	Valve - Shutoff
STD-1148	Gauge - Pressure, Dry Case, 0-150 PSIG (0-1035 KPa), 0.5% of full scale accuracy
STD-1375	Regulator - Pressure, 0 to 100 PSI (0-690 KPa) with Pressure Gauge
STD-8879	Cylinder - Test, portable

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
G02479	Lockwire - MS20995CY20, Copper - 0.020 Inch (0.508 mm) Diameter	NASM20995
G50306	Compound - Leak Detection, Oxygen System	MIL-PRF-25567 (BAC5402)
G50321	Air - Clean, Dry	BAC5402 Table I
G50323	Oxygen - Gaseous (Auxiliary pressure source alternate)	MIL-PRF-27210 Type I (Supercedes MIL-O-27210)

E. Location Zones

Zone	Area
115	Area Outboard and Above Nose Landing Gear Wheel Well, Left
211	Flight Compartment, Left
212	Flight Compartment, Right

F. Prepare to do the Leak Test

SUBTASK 35-11-00-910-027

(1) Read and obey the safety precautions and general instructions before you do the maintenance (TASK 35-00-00-910-801).

SUBTASK 35-11-00-200-004

(2) The test is performed using, clean dry air, G50321, nitrogen, G00018, or oxygen, G50323.

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SUBTASK 35-11-00-860-043

- (3) Prepare the oxygen cart, COM-1543, or a clean test cylinder, STD-8879 and this related test equipment:
 - pressure regulator (0 to 100 PSI), STD-1375
 - shutoff valve, STD-985
 - pressure gauge (0-150 PSIG), STD-1148
 - · oxygen hose assembly, COM-13360
 - 5/16 inch fitting union, COM-1374
 - (a) Assemble the 5/16 inch fitting union, COM-1374, oxygen hose assembly, COM-13360, pressure gauge (0-150 PSIG), STD-1148 and shutoff valve, STD-985.
 - (b) Make sure that the oxygen cart, COM-1543 or test cylinder, STD-8879 has a pressure regulator (0 to 100 PSI), STD-1375.

SUBTASK 35-11-00-860-042



DO NOT TIGHTEN THE SHUTOFF VALVE ON EACH OXYGEN CYLINDER MORE THAN 25 IN-LB (3 N·M). TOO MUCH TORQUE CAN CAUSE DAMAGE TO THE SHUTOFF VALVE.

(4) Close the shutoff valve on each of the crew oxygen cylinders slowly.

SUBTASK 35-11-00-210-020

(5) Make sure that the shutoff valve for the oxygen cart, COM-1543 or test cylinder, STD-8879 is closed.

G. Do the Supply Line Leak Test

NOTE: Part I

SUBTASK 35-11-00-480-009

(1) Do these steps to connect the oxygen cart, COM-1543 or test cylinder, STD-8879 and test equipment to the supply line:



LOOSEN THE CONNECTION SLOWLY. THE REMAINING OXYGEN CAN RELEASE WITH A LARGE FORCE, AND CAUSE THE TEMPERATURE TO INCREASE. HEAT AND OXYGEN CAN CAUSE A FIRE. INJURIES TO PERSONNEL, AND DAMAGE TO EQUIPMENT CAN OCCUR.



USE TWO WRENCHES TO DISCONNECT OR CONNECT TUBES. IF YOU DO NOT USE A WRENCH ON EACH SIDE OF THE CONNECTION, DAMAGE TO THE TUBES CAN OCCUR.

(a) Slowly disconnect the supply line tubing from the fitting of the pressure regulator.



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 fitting of the pressure regulator assembly (Installation of Threaded Caps on Open Oxygen Lines, TASK 35-00-00-420-801).

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- (c) Install the assembled test equipment hose to the supply line of the airplane oxygen system.
- (d) Then install the hose of the oxygen cart, COM-1543 or test cylinder, STD-8879 to the hose of the test equipment.

SUBTASK 35-11-00-860-086

(2) Open the shutoff valve on the oxygen cart, COM-1543 or test cylinder, STD-8879. Then slowly pressurize the system to a pressure between 60 psig (414 kPa) and 85 psig (586 kPa).

SUBTASK 35-11-00-710-178

(3) Let the pressure become stable. Then after 1 minute minimum close the shutoff valve of the oxygen cart, COM-1543 or test cylinder, STD-8879.

SUBTASK 35-11-00-710-179

NOTE: Let the pressure in the oxygen tubes become stable for 30 to 50 minutes, then continue the test.

- (4) After 30 minutes minimum, record the pressure of the pressure gauge (0-150 PSIG), STD-1148.
 - (a) Then after 15 minutes read the pressure of the pressure gauge (0-150 PSIG), STD-1148 again. Make sure that the pressure did not decrease more than 4 psig (28 kPa) in the 15 minute time period.
 - (b) If the pressure decreases more than 4 psig (28 kPa) in 15 minutes, the system is not satisfactory. Repair the leaks then do the check again.
 - (c) If the pressure decreases 4 psig (28 kPa) or less in 15 minutes, the system is satisfactory. Continue the procedure.

SUBTASK 35-11-00-020-010



USE TWO WRENCHES TO DISCONNECT OR CONNECT TUBES. IF YOU DO NOT USE A WRENCH ON EACH SIDE OF THE CONNECTION, DAMAGE TO THE TUBES CAN OCCUR.

(5) Remove the union and the hose of the test equipment from the supply line tubing.

SUBTASK 35-11-00-410-003



USE TWO WRENCHES TO DISCONNECT OR CONNECT TUBES. IF YOU DO NOT USE A WRENCH ON EACH SIDE OF THE CONNECTION, DAMAGE TO THE TUBES CAN OCCUR.

(6) Remove the cap from the supply fitting of the pressure regulator assembly. Then install the supply line to the fitting of the pressure regulator.

SUBTASK 35-11-00-200-003

(7) Do this task: Crew Oxygen Mask Stowage Box Test (Mask Stowed In Stowage Box), TASK 35-11-00-710-803 at all crew mask locations.

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H. Do the Fill Line Leak Test (Part II)

SUBTASK 35-11-00-480-010



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) Do these steps to connect the oxygen cart, COM-1543 or test cylinder, STD-8879 and test equipment to the remote fill line of the crew oxygen system:



LOOSEN THE CONNECTION SLOWLY. THE REMAINING OXYGEN CAN RELEASE WITH A LARGE FORCE, AND CAUSE THE TEMPERATURE TO INCREASE. HEAT AND OXYGEN CAN CAUSE A FIRE. INJURIES TO PERSONNEL, AND DAMAGE TO EQUIPMENT CAN OCCUR.



USE TWO WRENCHES TO DISCONNECT OR CONNECT TUBES. IF YOU DO NOT USE A WRENCH ON EACH SIDE OF THE CONNECTION, DAMAGE TO THE TUBES CAN OCCUR.

(a) Slowly disconnect the fill line from the check valve of the pressure regulator assembly.



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 check valve. (Installation of Threaded Caps on Open Oxygen Lines, TASK 35-00-00-420-801).
- (c) Install the assembled test equipment hose to the fill line of the airplane oxygen system.
- (d) Then install the hose of the oxygen cart, COM-1543 or test cylinder, STD-8879 to the hose of the test equipment.

SUBTASK 35-11-00-780-001

(2) Open the shutoff valve on the oxygen cart, COM-1543 or test cylinder, STD-8879. Then slowly pressurize the remote fill line to a pressure between 60 and 85 psig.

SUBTASK 35-11-00-780-002

(3) Let the pressure become stable. After one minute, close the shutoff valve of the oxygen cart, COM-1543 or test cylinder, STD-8879.

NOTE: Let the pressure in the oxygen tubes become stable for 30 to 50 minutes before you continue the test.

SUBTASK 35-11-00-780-003

- (4) After 30 minutes minimum, record the pressure of the pressure gauge (0-150 PSIG), STD-1148.
 - (a) Then after 15 minutes read the pressure of the pressure gauge (0-150 PSIG), STD-1148 again. Make sure that the pressure did not decrease more than 4 psig (28 kPa) in the 15 minute time period.
 - (b) If the pressure decreases more than 4 psig (28 kPa) in 15 minutes, the system is not satisfactory. Repair the leaks then do the check again.

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(c) If the pressure decreases 4 psig (28 kPa) or less in 15 minutes, the system is satisfactory. Continue the procedure.

SUBTASK 35-11-00-080-013



USE TWO WRENCHES TO DISCONNECT OR CONNECT TUBES. IF YOU DO NOT USE A WRENCH ON EACH SIDE OF THE CONNECTION, DAMAGE TO THE TUBES CAN OCCUR.

(5) Remove the union and the hose of the test equipment from the remote fill line.

SUBTASK 35-11-00-420-028



USE TWO WRENCHES TO DISCONNECT OR CONNECT TUBES. IF YOU DO NOT USE A WRENCH ON EACH SIDE OF THE CONNECTION, DAMAGE TO THE TUBES CAN OCCUR.

- (6) Remove the cap from the check valve of the pressure regulator assembly. Then install the remote fill line to the check valve.
- I. Put The Airplane Back to Its Usual Condition

SUBTASK 35-11-00-860-088



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

- (1) Slowly open the shutoff valves on the two crew oxygen cylinders to full open. Then close each valve one fourth of a turn
 - (a) Attach an inspection MS20995CY20 lockwire, G02479 to hold each shutoff valve in this position (TASK 20-10-23-400-801)

SUBTASK 35-11-00-790-012

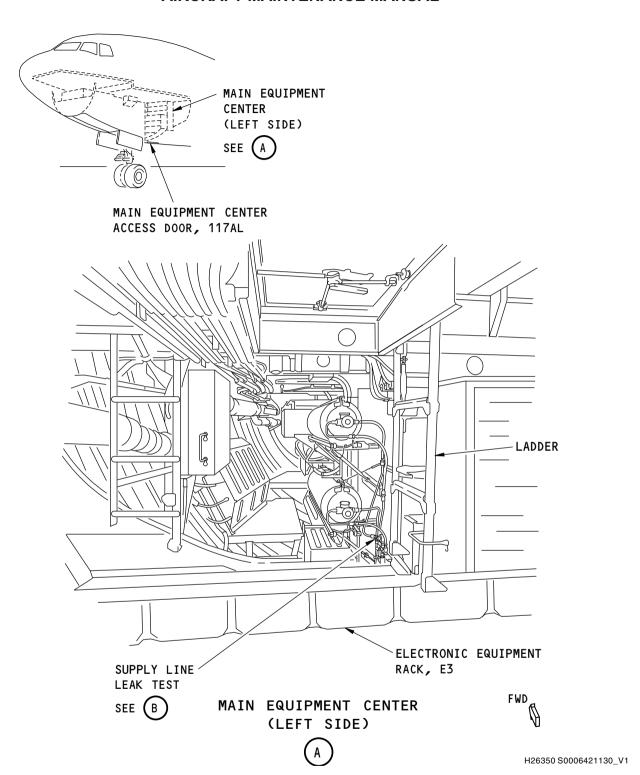
- (2) Examine the supply line connection to make sure that there are no leaks. This is the Task: Leak Detection, TASK 35-00-00-790-801.
 - (a) Remove the leak detection compound, G50306 with a clean cotton wiper, G00034 immediately after the test.
 - (b) Repair the leaks if it is necessary, then do these steps again. Leaks are not permitted.

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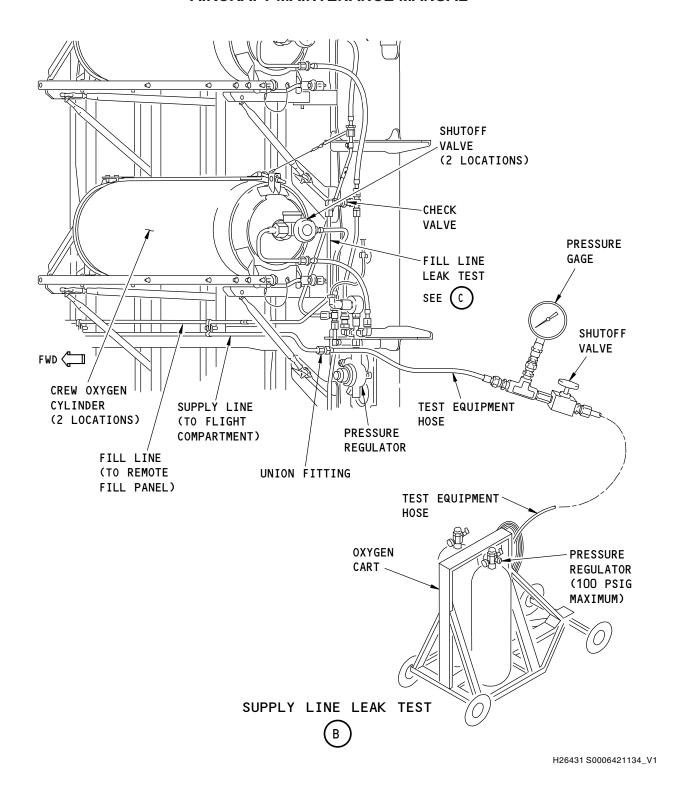
Crew Oxygen System Leak Test Figure 504/35-11-00-990-807 (Sheet 1 of 3)

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Crew Oxygen System Leak Test Figure 504/35-11-00-990-807 (Sheet 2 of 3)

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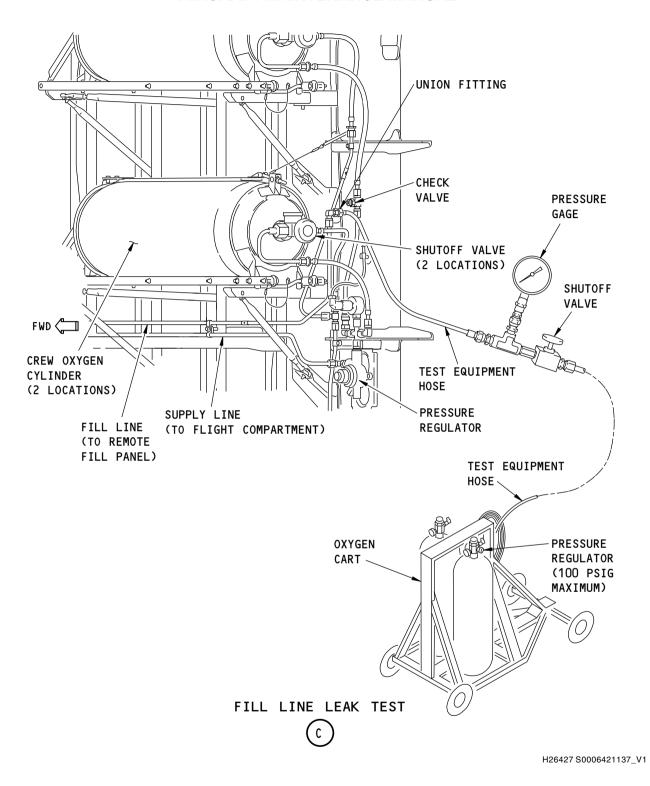
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Crew Oxygen System Leak Test Figure 504/35-11-00-990-807 (Sheet 3 of 3)

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CREW OXYGEN SYSTEM - INSPECTION/CHECK

1. General

- A. This procedure has these tasks:
 - (1) Oxygen Cylinder Pressure and Leak Check
 - (2) Oxygen Cylinder Correct Installation and Condition Check.
- B. This procedure is done as a general check of the oxygen cylinders, and for general maintenance for the oxygen system. The oxygen cylinders are in the left outboard side of the nose wheel well. The access to the oxygen cylinders are through the electronics equipment bay in the lower cargo compartment.

TASK 35-11-00-710-807

2. Oxygen Cylinder Pressure and 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
115	Area Outboard and Above Nose Landing Gear Wheel Well, Left

D. Oxygen Cylinder Pressure Check

SUBTASK 35-11-00-910-007

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

SUBTASK 35-11-00-210-016

(2) Make sure the pressure shown on the pressure gages are above the minimum pressure necessary for dispatch (Table 601).

Table 601/35-11-00-993-806 CREW OXYGEN REQUIREMENTS

			1 PRESSURE (PSI) FOR T LINDERS (115 CUBIC FEI	
Bottle Temperature			Number of Crew Us	sing Oxygen
(°C)	(°F)	2	3	4
-10	14	265	355	445
-5	23	270	360	455
0	32	275	370	460

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Table 601/35-11-00-993-806 CREW OXYGEN REQUIREMENTS (Continued)

			I PRESSURE (PSI) FOR T LINDERS (115 CUBIC FE	
	Bottle nperature		Number of Crew Us	sing Oxygen
(°C)	(°F)	2	3	4
5	41	280	375	470
10	50	285	380	480
15	59	290	390	485
20	68	295	395	495
25	77	300	400	505
30	86	305	410	510
35	95	310	415	520
40	104	315	420	530
45	113	320	430	540
50	122	325	435	545

E. Oxygen Cylinder Leak Check

SUBTASK 35-11-00-790-005

- (1) Apply the leak detection compound, G50306 to all the fittings and connections.
 - (a) Look for bubbles to find all the leaks.
 - (b) Remove the leak detection compound, G50306 with a clean cotton wiper, G00034 immediately after the check.
 - (c) Make sure the fittings and connections are dry.



DO NOT TIGHTEN THE FITTINGS OR CONNECTIONS MORE THAN 25 POUND-INCHES. THIS CAN CAUSE DAMAGE TO THIS EQUIPMENT.

- (d) If you find leaks, tighten the fittings and connections.
- (e) If you can not stop the leaks, send the oxygen cylinder to an approved facility for an overhaul.

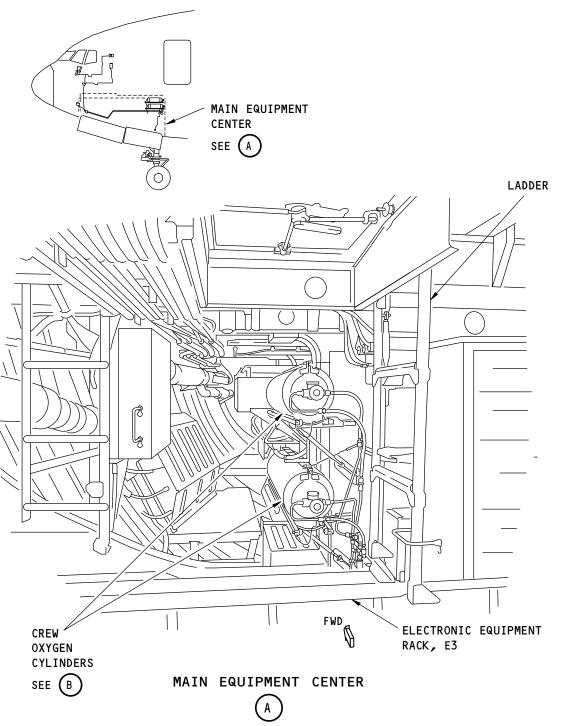
NOTE: The leaks must not be permitted to continue.

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Oxygen Cylinder Assembly Figure 601/35-11-00-990-804 (Sheet 1 of 2)

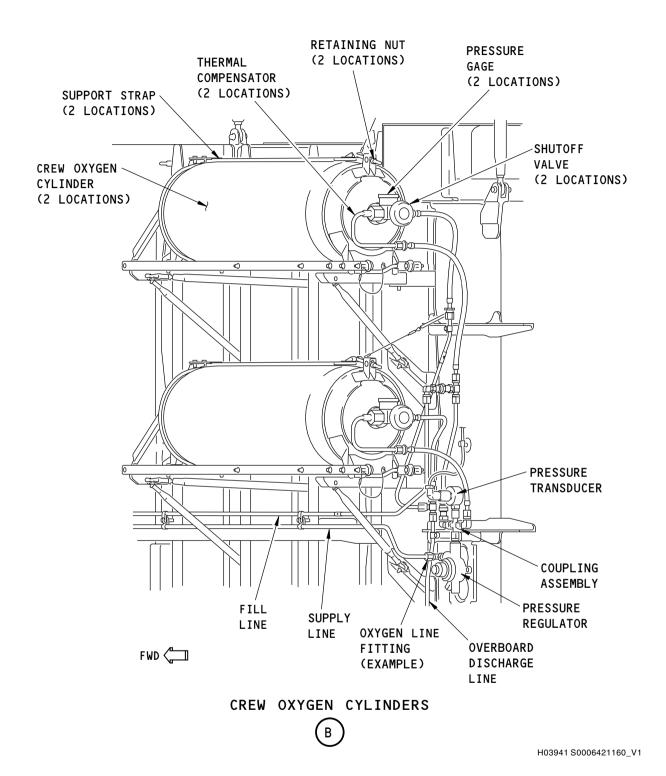
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Oxygen Cylinder Assembly Figure 601/35-11-00-990-804 (Sheet 2 of 2)

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TASK 35-11-00-210-801

3. Oxygen Cylinder Correct Installation and Condition Check

(Figure 601)

A. References

Reference	Title
20-11-00-910-801	Standard Torque Values (P/B 201)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)

B. Location Zones

Zone	Area
115	Area Outboard and Above Nose Landing Gear Wheel Well, Left

C. Procedure

SUBTASK 35-11-00-910-059

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

SUBTASK 35-11-00-210-057

(2) Make sure the oxygen cylinders are clean.

SUBTASK 35-11-00-210-058

(3) Make sure the oxygen cylinders do not have nicks, cracks, dents, cuts, or some other damage.

SUBTASK 35-11-00-210-059

- (4) 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 stamped on the stamped on the neck of oxygen cylinder.

SUBTASK 35-11-00-200-001

- (5) Make sure the oxygen cylinders are held tightly in its position.
 - NOTE: The retaining nut in the upper support must be tightened to 10-15 pound-inches. The oxygen cylinders must not show excess movement (approximately 1/2 inch) when pushed by your hand.

SUBTASK 35-11-00-200-002

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- (6) Do a check of these components to make sure they are installed correctly.
 - (a) The pressure transducer is installed tightly (a torque of 125 150 pound-inches) on the coupling assembly.
 - (b) The pressure regulator is installed tightly in its position by the bolts (tightened by hand).
 - (c) The thermal compensator, overboard discharge line, fill line (if applicable) and supply line fittings are tightly installed.

NOTE: 5/16 inch flared oxygen line fittings must be tightened to a torque of 100 - 125 pound-inches. However other size oxygen lines torque values should be followed (TASK 20-11-00-910-801).

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THERMAL COMPENSATOR - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
 - (1) Thermal Compensator Removal
 - (2) Thermal Compensator Installation.
- B. The thermal compensator is found between the fill panel and the oxygen cylinder. The thermal compensator is used to prevent a temperature rise due to the rapid adiabatic compression when the remote fill panel is used. The access to the thermal compensator is through the electronics equipment bay in the lower cargo area.

TASK 35-11-02-000-801

2. Thermal Compensator Removal

(Figure 401)

A. References

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

B. Tools/Equipment

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

C. Location Zones

Zone	Area
115	Area Outboard and Above Nose Landing Gear Wheel Well, Left

D. Prepare for the Removal

SUBTASK 35-11-02-910-001

(1) Read and obey the safety precautions and general instructions before you do the maintenance (TASK 35-00-00-910-801).

E. Thermal Compensator Removal

SUBTASK 35-11-02-860-001



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DO NOT TIGHTEN THE SHUTOFF VALVE ON EACH OXYGEN CYLINDER MORE THAN 25 IN-LB (3 N·M). TOO MUCH TORQUE CAN CAUSE DAMAGE TO THE SHUTOFF VALVE.

(1) Close the shutoff valve [4] on the crew oxygen cylinder(s) [1] slowly. Make sure that you close the shutoff valve of all the crew oxygen cylinders.

 $\underline{\text{NOTE}}\textsc{:}$ The shutoff valve [4] can be closed by your hand, which is equivalent to 25

pound-inches.

NOTE: Some airplanes have more than one crew oxygen cylinder.

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SUBTASK 35-11-02-020-001



LOOSEN THE CONNECTION SLOWLY. THE REMAINING OXYGEN CAN RELEASE WITH A LARGE FORCE, AND CAUSE THE TEMPERATURE TO INCREASE. HEAT AND OXYGEN CAN CAUSE A FIRE. INJURIES TO PERSONNEL, AND DAMAGE TO EQUIPMENT CAN OCCUR.



USE TWO WRENCHES TO DISCONNECT OR CONNECT TUBES. IF YOU DO NOT USE A WRENCH ON EACH SIDE OF THE CONNECTION, DAMAGE TO THE TUBES CAN OCCUR.

(2) Loosen the B-nuts [3] and [5] on the thermal compensator.

SUBTASK 35-11-02-020-002

(3) Remove the thermal compensator [2].

SUBTASK 35-11-02-420-001



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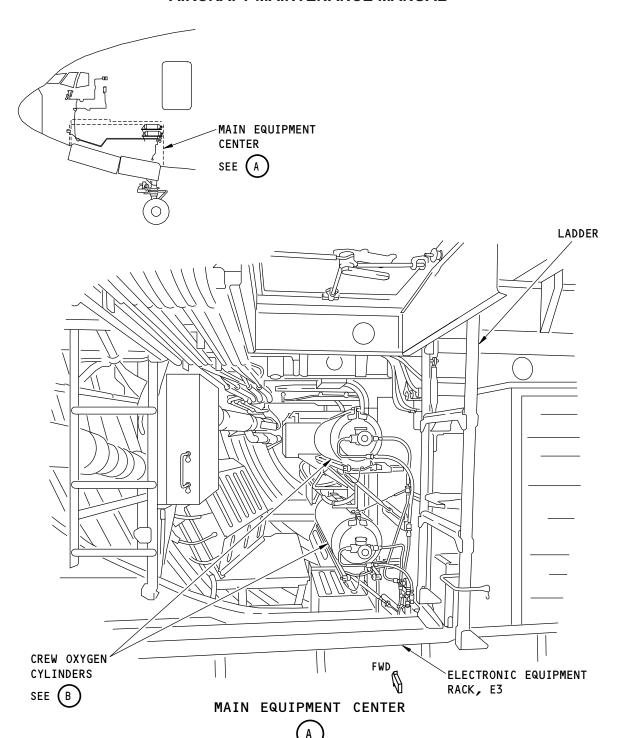
USE ONLY OXYGEN-CLEAN COMPONENTS IN THE OXYGEN SYSTEM. IF YOU DO NOT USE OXYGEN-CLEAN COMPONENTS, A FIRE OR AN EXPLOSION CAN OCCUR. THIS CAN CAUSE DAMAGE TO EQUIPMENT OR INJURIES TO PERSONS.

(4) Install a Flareless Tube Cap, 1/2-20 Thread, STD-1130 or Flareless Tube Plug, 1/2-20 Thread, STD-1131 on the open line, Installation of Threaded Caps on Open Oxygen Lines, TASK 35-00-00-420-801.

NOTE: Oxygen clean fittings come from a sealed package and a label 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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Thermal Compensator Installation Figure 401/35-11-02-990-801 (Sheet 1 of 2)

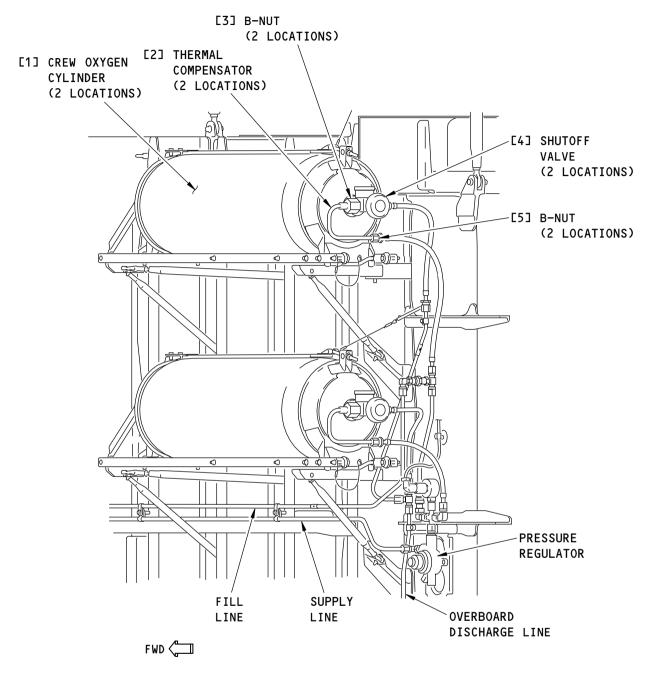
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CREW OXYGEN CYLINDERS



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Thermal Compensator Installation Figure 401/35-11-02-990-801 (Sheet 2 of 2)

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TASK 35-11-02-400-801

3. Thermal Compensator Installation

(Figure 401)

A. References

Reference	Title
20-10-23-400-801	Lockwire, Cotter Pins, and Lockrings - Installation (P/B 401)
20-11-00-910-801	Standard Torque Values (P/B 201)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)

B. Tools/Equipment

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

C. Consumable Materials

Reference	Description	Specification
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	BMS15-5 Class A
G02479	Lockwire - MS20995CY20, Copper - 0.020 Inch (0.508 mm) Diameter	NASM20995
G50306	Compound - Leak Detection, Oxygen System	MIL-PRF-25567 (BAC5402)

D. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity	
2	Thermal compensator	35-11-02-01-005	ARO ALL	
		35-11-09-03-155	ARO ALL	

E. Location Zones

Zone	Area
115	Area Outboard and Above Nose Landing Gear Wheel Well, Left

F. Prepare for Installation

SUBTASK 35-11-02-910-002

(1) Read and obey the safety precautions and general instructions before you do the maintenance (TASK 35-00-00-910-801).

G. Thermal Compensator Installation

SUBTASK 35-11-02-010-001

(1) Remove the Flareless Tube Cap, 1/2-20 Thread, STD-1130 or Flareless Tube Plug, 1/2-20 Thread, STD-1131 from the open oxygen line.

SUBTASK 35-11-02-210-001

(2) Examine the threads on the fittings to make sure they are clean.

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SUBTASK 35-11-02-410-001



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

(3) Put the thermal compensator [2] in its position.

NOTE: Oxygen clean fittings come from a sealed package and a label 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 35-11-02-430-001

(4) Tighten B-nut [3], that connects the thermal compensator to the pressure regulator, to 420 ±20 in-lb (47 ±3 N·m).

SUBTASK 35-11-02-420-002



USE TWO WRENCHES TO DISCONNECT OR CONNECT TUBES. IF YOU DO NOT USE A WRENCH ON EACH SIDE OF THE CONNECTION, DAMAGE TO THE TUBES CAN OCCUR.

(5) Tighten the B-nut [5] that connects the thermal compensator [2] to the oxygen line ((TASK 20-11-00-910-801).

H. Installation Test

SUBTASK 35-11-02-860-009



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

- (1) Slowly open the shutoff valves on the two crew oxygen cylinders to full open. Then close each valve one fourth turn.
 - (a) Attach an inspection MS20995CY20 lockwire, G02479 to hold each shutoff valve in this position (TASK 20-10-23-400-801).

SUBTASK 35-11-02-790-001

(2) Do a check of the connections B-nut [3] and B-nut [5] for leaks with leak detection compound, G50306.

SUBTASK 35-11-02-100-001

(3) Rub the leak detection compound, G50306 off with a clean cotton wiper, G00034 immediately after you do the check.

END	OF	TASK -	
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PRESSURE TRANSDUCER - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
 - (1) Pressure Transducer Removal
 - (2) Pressure Transducer Installation.
- B. The pressure transducer is installed near the crew oxygen cylinder. Access to the oxygen cylinder is through the electronics equipment bay in the lower cargo area.
- C. The pressure transducer converts the pressure on the oxygen cylinder to the pressure shown on the EICAS. This procedure lets you replace the pressure transducer as a separate unit.

TASK 35-11-03-000-801

2. Pressure Transducer Removal

(Figure 401)

A. References

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

B. Tools/Equipment

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

C. Location Zones

Zone	Area
115	Area Outboard and Above Nose Landing Gear Wheel Well, Left

D. Prepare for the Removal

SUBTASK 35-11-03-910-001

(1) Read and obey the safety precautions and general instructions before you do the maintenance (TASK 35-00-00-910-801).

SUBTASK 35-11-03-860-001

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

Right Power Management Panel, P210

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Ν	4	C35600	OXY PRESS IND

E. Pressure Transducer Removal

SUBTASK 35-11-03-860-002



DO NOT TIGHTEN THE SHUTOFF VALVE ON EACH OXYGEN CYLINDER MORE THAN 25 IN-LB (3 N·M). TOO MUCH TORQUE CAN CAUSE DAMAGE TO THE SHUTOFF VALVE.

(1) Close the shutoff valve [3] on the crew oxygen cylinder(s) [1] slowly. Make sure that you close the shutoff valve of all the crew oxygen cylinders

NOTE: Some airplanes have more than one crew oxygen cylinder.

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SUBTASK 35-11-03-020-001

(2) Disconnect the electrical connector [4].

SUBTASK 35-11-03-010-001



LOOSEN THE CONNECTION SLOWLY. THE REMAINING OXYGEN CAN RELEASE WITH A LARGE FORCE, AND CAUSE THE TEMPERATURE TO INCREASE. HEAT AND OXYGEN CAN CAUSE A FIRE. INJURIES TO PERSONNEL. AND DAMAGE TO EQUIPMENT CAN OCCUR.

(3) Slowly loosen the B-nut [6] to permit the pressure in the line to decrease.

SUBTASK 35-11-03-020-002

(4) Disconnect the B-nut [6].

SUBTASK 35-11-03-020-003

(5) Remove the pressure transducer [5] from the coupling assembly [7].

SUBTASK 35-11-03-480-001



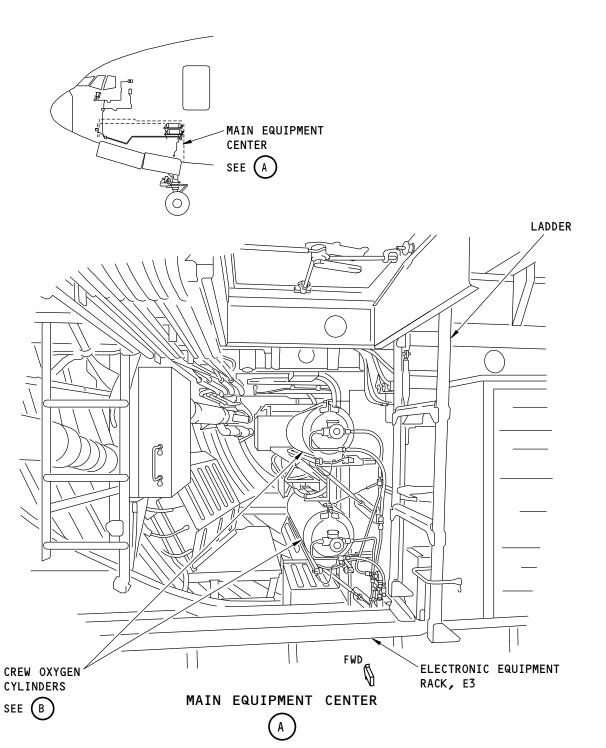
USE ONLY OXYGEN-CLEAN COMPONENTS IN THE OXYGEN SYSTEM. IF YOU DO NOT USE OXYGEN-CLEAN COMPONENTS, A FIRE OR AN EXPLOSION CAN OCCUR. THIS CAN CAUSE DAMAGE TO EQUIPMENT OR INJURIES TO PERSONS.

(6) Install protective Flareless Tube Cap, 1/2-20 Thread, STD-1130 or Flareless Tube Plug, 1/2-20 Thread, STD-1131 on the open oxygen lines, TASK 35-00-00-420-801.

NOTE: Oxygen clean fittings come from a sealed package and a label 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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Pressure Transducer Installation Figure 401/35-11-03-990-801 (Sheet 1 of 2)

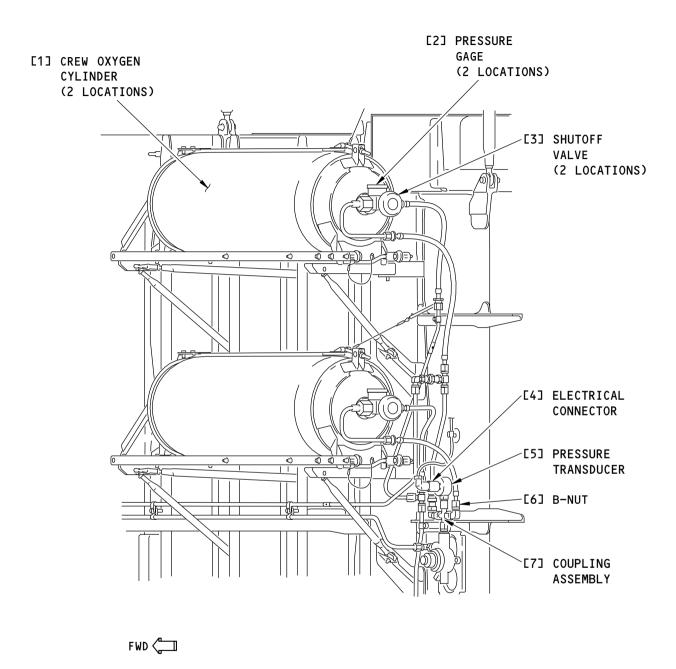
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CREW OXYGEN CYLINDERS



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Pressure Transducer Installation Figure 401/35-11-03-990-801 (Sheet 2 of 2)

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TASK 35-11-03-400-801

3. Pressure Transducer Installation

(Figure 401)

A. References

Reference	Title
20-10-23-400-801	Lockwire, Cotter Pins, and Lockrings - Installation (P/B 401)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)

B. Tools/Equipment

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

C. Consumable Materials

Reference	Description	Specification
G02479	Lockwire - MS20995CY20, Copper - 0.020	NASM20995
	Inch (0.508 mm) Diameter	

D. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity	
5	Pressure transducer	35-11-03-01-015	ARO ALL	

E. Location Zones

Zone	Area
115	Area Outboard and Above Nose Landing Gear Wheel Well, Left

F. Prepare for the Installation

SUBTASK 35-11-03-910-002

(1) Read and obey the safety precautions and general instructions before you do the maintenance (TASK 35-00-00-910-801).

G. Pressure Transducer Installation

SUBTASK 35-11-03-080-001

(1) Remove the protective Flareless Tube Cap, 1/2-20 Thread, STD-1130 or Flareless Tube Plug, 1/2-20 Thread, STD-1131 from the open lines.

SUBTASK 35-11-03-210-001

(2) Examine the threads on the fittings to make sure they are clean.

SUBTASK 35-11-03-420-001



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

(3) Install the pressure transducer [5] on the coupling assembly [7].

NOTE: Oxygen clean fittings come from a sealed package and a label 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 35-11-03-420-002

(4) Connect the B-nut [6] on the coupling assembly [7].

SUBTASK 35-11-03-420-003

(5) Connect the electrical connector [4] to the pressure transducer [5].

H. Put the Airplane Back to Its Usual Condition

SUBTASK 35-11-03-860-003



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

- (1) Slowly open the shutoff valve [3] until it is fully open.
 - (a) Close the shutoff valve [3] one fourth of a turn.
 - (b) Attach an inspection MS20995CY20 lockwire, G02479 to hold the valve in this position (TASK 20-10-23-400-801).

SUBTASK 35-11-03-860-004

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

Right Power Management Panel, P210

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Ν	4	C35600	OXY PRESS IND

SUBTASK 35-11-03-860-005

(3) Make sure the pressure shown on the oxygen cylinder gage [2] with the highest pressure is the same as the EICAS within 100 psi.

NOTE: Some airplanes have more than one oxygen cylinder.

——— END OF TASK ———



PRESSURE REGULATOR - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
 - (1) Pressure Regulator Removal
 - (2) Pressure Regulator Installation.
- B. The pressure regulator is installed near the crew oxygen cylinder which is installed in the left outboard side of the nose wheel well. Access is through the electronics equipment bay in the lower cargo compartment.
- C. The pressure regulator is initially installed with the pressure transducer, coupling assembly and thermal compensator. The pressure regulator changes the high pressure oxygen from 1850 psia to a lower pressure of 60 to 85 psig. This procedure permits you to replace the pressure regulator without the need to replace the thermal compensator, coupling assembly and pressure transducer.

TASK 35-11-05-000-801

2. Pressure Regulator Removal

(Figure 401)

A. References

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

B. Tools/Equipment

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

C. Location Zones

Zone	Area
115	Area Outboard and Above Nose Landing Gear Wheel Well, Left

D. Prepare for the Removal

SUBTASK 35-11-05-910-001

(1) Read and obey the safety precautions and general instructions before you do the maintenance (TASK 35-00-00-910-801).

SUBTASK 35-11-05-860-001

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

Right Power Management Panel, P210

Row	Col	<u>Number</u>	<u>Name</u>
Ν	4	C35600	OXY PRESS IND

35-11-05

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E. Pressure Regulator Removal

SUBTASK 35-11-05-860-002



DO NOT TIGHTEN THE SHUTOFF VALVE ON THE OXYGEN CYLINDER MORE THAN 25 POUND-INCHES. THIS CAN CAUSE DAMAGE TO THE SHUTOFF VALVE.

(1) Close the shutoff valve [2] on the crew oxygen cylinder [1] slowly.

NOTE: The shutoff valve [2] can be closed by hand which is equivalent to 25 pound-inches.

SUBTASK 35-11-05-020-004

(2) Slowly loosen the B-nut [3] on the pressure regulator [4] to permit the remaining pressure in the line to decrease.

SUBTASK 35-11-05-020-001

(3) Disconnect the coupling assembly [8].

SUBTASK 35-11-05-020-002

(4) Remove the bolts [5] from the bracket [6].

SUBTASK 35-11-05-020-003

(5) Remove the pressure regulator [4] from the coupling assembly [8].

SUBTASK 35-11-05-010-001

(6) Remove the pressure regulator [4] from the coupling assembly [8].

SUBTASK 35-11-05-410-002



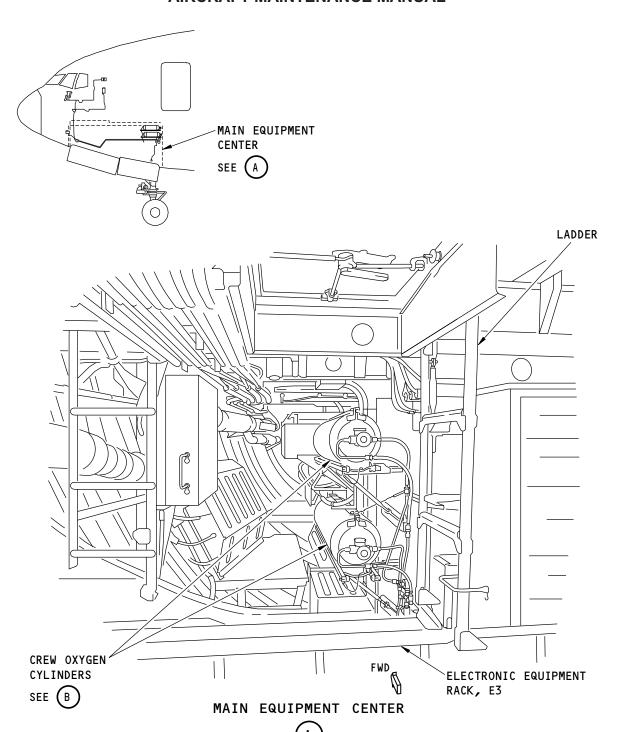
USE ONLY OXYGEN-CLEAN COMPONENTS IN THE OXYGEN SYSTEM. IF YOU DO NOT USE OXYGEN-CLEAN COMPONENTS, A FIRE OR AN EXPLOSION CAN OCCUR. THIS CAN CAUSE DAMAGE TO EQUIPMENT OR INJURIES TO PERSONS.

(7) Install the Flareless Tube Cap, 1/2-20 Thread, STD-1130 and the Flareless Tube Plug, 1/2-20 Thread, STD-1131 on all open oxygen lines or ports, TASK 35-00-00-420-801.

NOTE: Oxygen clean fittings come from a sealed package and a label 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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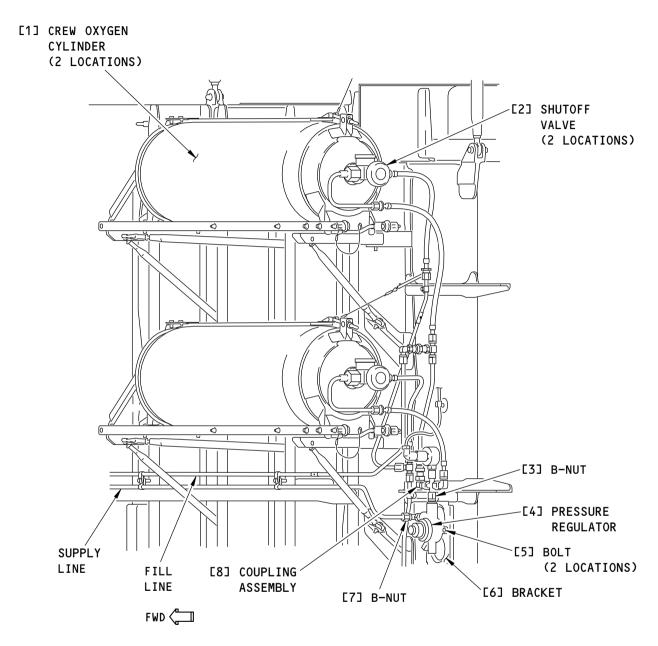
Pressure Regulator Installation Figure 401/35-11-05-990-801 (Sheet 1 of 2)

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CREW OXYGEN CYLINDERS

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Pressure Regulator Installation Figure 401/35-11-05-990-801 (Sheet 2 of 2)

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TASK 35-11-05-400-801

3. Pressure Regulator Installation

(Figure 401)

A. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-11-00-710-809	Pressure Regulator Test (P/B 501)

B. Tools/Equipment

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

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
4	Pressure regulator	35-11-05-01-105	ARO ALL
		35-11-05-01-140	ARO ALL

D. Location Zones

Zone	Area	
115	Area Outboard and Above Nose Landing Gear Wheel Well, Left	

E. Prepare for Installation

SUBTASK 35-11-05-910-002

(1) Read and obey the safety precautions and general instructions before you do the maintenance (TASK 35-00-00-910-801).

F. Pressure Regulator Installation

SUBTASK 35-11-05-020-005

(1) Remove the Flareless Tube Cap, 1/2-20 Thread, STD-1130 and the Flareless Tube Plug, 1/2-20 Thread, STD-1131 from the oxygen lines or ports.

SUBTASK 35-11-05-410-001



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

- (2) Put the pressure regulator [4] in position on the bracket [6].
 - (a) Make sure you remove the protective tube cap or plug.

SUBTASK 35-11-05-420-001

(3) Install the bolts [5] in the bracket [6].

SUBTASK 35-11-05-420-002

(4) Connect the B-nut [7] on the supply line to the pressure regulator [4].

SUBTASK 35-11-05-420-003

(5) Connect the B-nut [3] on the coupling assembly [8] to the pressure regulator [4].

35-11-05

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EFFECTIVITY -



G. Put the Airplane Back to Its Usual Condition

SUBTASK 35-11-05-710-001

(1) To make sure the pressure regulator [4] works correctly, do this task: Pressure Regulator Test, TASK 35-11-00-710-809.

SUBTASK 35-11-05-860-005

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

Right Power	· Management	Panel,	P210
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Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
N	4	C35600	OXY PRESS IND

——— END OF TASK ———

ARO ALL 35-11-05



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.
- B. The remote fill panel is used with the oxygen cart to add oxygen to the crew oxygen cylinder(s). The fill valve is on the remote fill panel. There is also a pressure indicator on the remote fill panel. The remote fill panel is on the forward bulkhead of the wheel well. Access is through the forward access hatch which is forward of the nose wheel well.

TASK 35-11-07-000-801

2. Remote Fill Panel and Fill Valve Removal

(Figure 401)

A. References

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

B. Tools/Equipment

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

C. Location Zones

Zone	Area
112	Area Forward of Nose Landing Gear Wheel Well
115	Area Outboard and Above Nose Landing Gear Wheel Well, Left

D. Prepare for the Removal

SUBTASK 35-11-07-910-001

(1) Read and obey the safety precautions and general instructions before you do the maintenance (TASK 35-00-00-910-801).

SUBTASK 35-11-07-860-001

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

Right Power Management Panel, P210

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Ν	4	C35600	OXY PRESS IND

SUBTASK 35-11-07-860-002



EFFECTIVITY

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DO NOT TIGHTEN THE SHUTOFF VALVE ON THE OXYGEN CYLINDER MORE THAN 25 POUND-INCHES. THIS CAN CAUSE DAMAGE TO THE SHUTOFF VALVE.



(CAUTION PRECEDES)



DO NOT TIGHTEN THE SHUTOFF VALVE ON THE CREW OXYGEN CYLINDER MORE THAN 25 POUND-INCHES. 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 pound-inches.

E. Procedure

SUBTASK 35-11-07-020-001

(1) Loosen the B-nut [8] on the fill line.

SUBTASK 35-11-07-480-001



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

(2) Install a Flareless Tube Cap, 1/2-20 Thread, STD-1130 or Flareless Tube Plug, 1/2-20 Thread, STD-1131 on the open line, TASK 35-00-00-420-801.

NOTE: Oxygen clean fittings come from a sealed package and a label 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 35-11-07-860-005

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

SUBTASK 35-11-07-020-008

(4) Open the door [7] on the remote fill panel [1].

SUBTASK 35-11-07-020-002

(5) Remove the bolts [14], washers [15] and nuts [16] on the forward side of the remote fill panel [1].

SUBTASK 35-11-07-020-003

(6) Remove the screws [9], screws [11], washers [10] and washers [12] from the fill valve [13].

SUBTASK 35-11-07-020-004

(7) Remove screws [5] and washers [6] from the pressure indicator [4].

SUBTASK 35-11-07-020-005

(8) Remove pressure indicator [4].

SUBTASK 35-11-07-020-006

(9) Remove the remote fill panel [1].

SUBTASK 35-11-07-020-007

(10) Remove the fill valve [13].

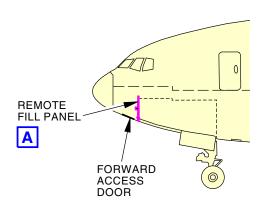
SUBTASK 35-11-07-020-009

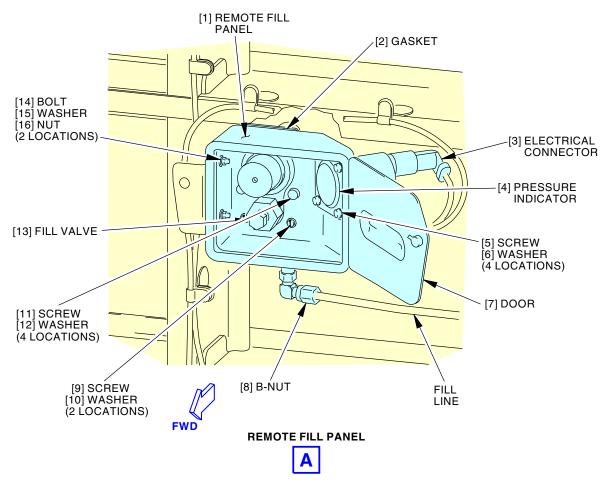
(11) Remove the gaskets [2].

----- END OF TASK -----

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Remote Fill Panel and Fill Valve Installation Figure 401/35-11-07-990-801

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35-11-07

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TASK 35-11-07-400-801

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)

B. Tools/Equipment

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

C. Consumable Materials

Reference	Description	Specification
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
2	Gasket	35-11-51-02-020	ARO ALL
		35-11-51-02-125	ARO ALL
4	Indicator	35-11-51-02-015	ARO ALL
13	Valve	35-11-51-02-120	ARO ALL

E. Location Zones

Zone	Area
112	Area Forward of Nose Landing Gear Wheel Well
115	Area Outboard and Above Nose Landing Gear Wheel Well, Left

F. Prepare for Installation

SUBTASK 35-11-07-910-002

(1) Read and obey the safety precautions and general instructions before you do the maintenance (TASK 35-00-00-910-801).

G. Procedure

SUBTASK 35-11-07-420-007

(1) Install a new gaskets [2] on the remote fill panel [1].

SUBTASK 35-11-07-420-001

(2) Put the fill valve [13] inside the remote fill panel [1].

SUBTASK 35-11-07-420-002

(3) Install the screws [9], washers [10] and washers [12].

35-11-07

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- EFFECTIVITY ·



SUBTASK 35-11-07-420-003



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

(4) Put the remote fill panel [1] in its usual position.

SUBTASK 35-11-07-410-001

(5) Install the screws [5] and washers [6] to attach the pressure indicator [4].

SUBTASK 35-11-07-420-004

(6) Install the bolts [14], washers [15] and nuts [16] on the forward side of the remote fill panel [1].

SUBTASK 35-11-07-410-002

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

SUBTASK 35-11-07-420-005

(8) Connect the electrical connector [3] to the pressure indicator [4].

SUBTASK 35-11-07-080-001

(9) Remove the Flareless Tube Cap, 1/2-20 Thread, STD-1130 or Flareless Tube Plug, 1/2-20 Thread, STD-1131 from the fill line.

SUBTASK 35-11-07-420-006



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

- (10) Attach the B-nut [8] to the fill line.
- H. Put the Airplane Back To Its Usual Condition.

SUBTASK 35-11-07-860-003



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

- (1) Open the shutoff valve fully on the crew oxygen cylinder.
 - (a) Close the shutoff valve one fourth of a turn.

SUBTASK 35-11-07-860-004

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

Right Power Management Panel, P210

 Row
 Col
 Number
 Name

 N
 4
 C35600
 OXY PRESS IND

SUBTASK 35-11-07-210-001

(3) Make sure the pressure shown on the remote fill panel [1], the crew oxygen cylinder, and the EICAS are all approximately equal.

SUBTASK 35-11-07-790-003

(4) Apply leak detection compound, G50306 to the B-nut [8] on the fill line to make sure there are no leaks.

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

——— END OF TASK ———

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BLEED VALVE - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
 - (1) Bleed Valve Removal
 - (2) Bleed Valve Installation.
- B. The bleed valve is installed to stop incorrect pressures on the EICAS. A high pressure is permitted to remain in the lines, it could give a full pressure reading on the EICAS even though the cylinder shutoff valve is closed. The bleed valve is connected electrically into the ELMS which will bleed excess pressure in the line.
- C. The bleed valve is found in the oxygen supply line and is approximately 10 feet forward of the oxygen cylinder. Access is through the main electrical equipment bay area.

TASK 35-11-08-000-801

2. Bleed Valve Removal

(Figure 401)

A. References

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

B. Tools/Equipment

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

C. Location Zones

Zone	Area
115	Area Outboard and Above Nose Landing Gear Wheel Well, Left

D. Prepare for the Removal

SUBTASK 35-11-08-910-001

(1) Read and obey the safety precautions and general instructions before you do the maintenance (TASK 35-00-00-910-801).

SUBTASK 35-11-08-860-001

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

Right Power Management Panel, P210

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Ν	4	C35600	OXY PRESS IND

SUBTASK 35-11-08-860-002



DO NOT TIGHTEN THE SHUTOFF VALVE ON THE OXYGEN CYLINDER MORE THAN 25 POUND-INCHES. THIS CAN CAUSE DAMAGE TO THE SHUTOFF VALVE.

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



E. Bleed Valve Removal

SUBTASK 35-11-08-020-001

(1) Remove the bolts [5] and the washers [6] from the clamp [2].

SUBTASK 35-11-08-020-004

(2) Remove the clamp [2] from the bleed valve [3].

SUBTASK 35-11-08-020-002

(3) Loosen the B-nuts [7] from each side of the bleed valve [3].



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) Install a Flareless Tube Cap, 1/2-20 Thread, STD-1130 or Flareless Tube Plug, 1/2-20 Thread, STD-1131 on the open line,: TASK 35-00-00-420-801.

NOTE: Oxygen clean fittings come from a sealed package and a label 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 35-11-08-480-002

(4) Install Flareless Tube Cap, 1/2-20 Thread, STD-1130 and Flareless Tube Plug, 1/2-20 Thread, STD-1131 on all open oxygen lines.

SUBTASK 35-11-08-860-003

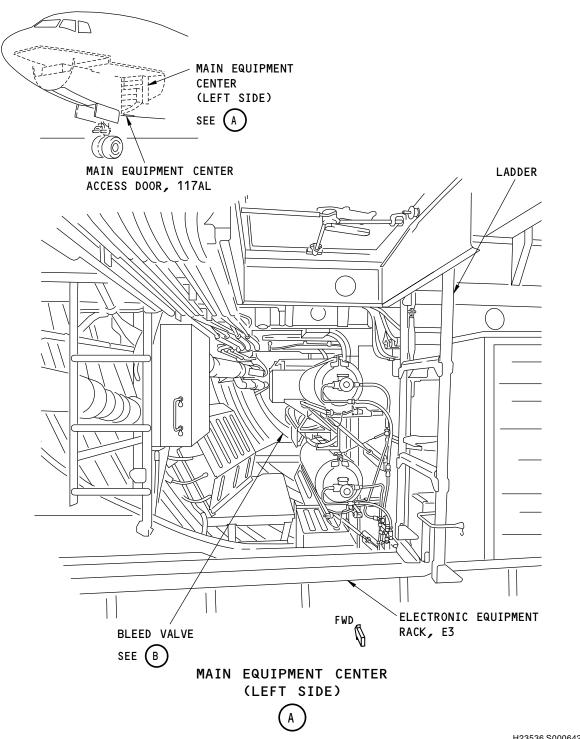
(5) Disconnect the electrical connector [1].

SUBTASK 35-11-08-020-003

(6) Remove the bleed valve [3].

——— END OF TASK ———





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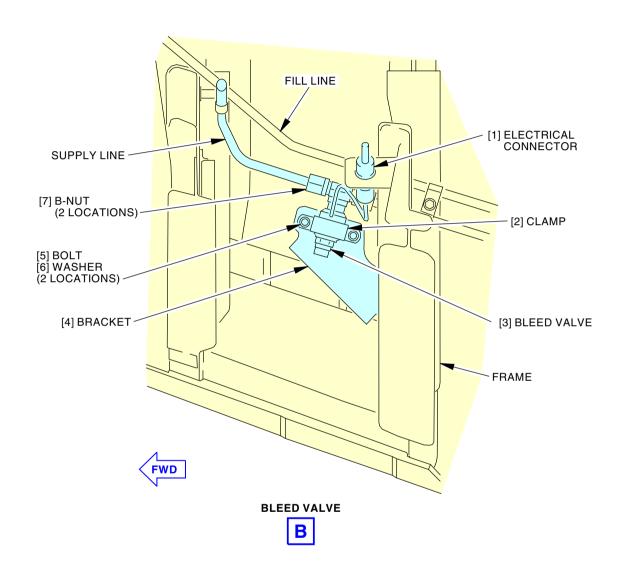
Bleed Valve Installation Figure 401/35-11-08-990-801 (Sheet 1 of 2)

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Bleed Valve Installation Figure 401/35-11-08-990-801 (Sheet 2 of 2)

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TASK 35-11-08-400-801

3. Bleed Valve Installation

(Figure 401)

A. References

Reference	Title
20-10-23-400-801	Lockwire, Cotter Pins, and Lockrings - Installation (P/B 401)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)

B. Tools/Equipment

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

C. Consumable Materials

Reference	Description	Specification
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	BMS15-5 Class A
G02479	Lockwire - MS20995CY20, Copper - 0.020 Inch (0.508 mm) Diameter	NASM20995
G50306	Compound - Leak Detection, Oxygen System	MIL-PRF-25567 (BAC5402)

D. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity	
3	Valve	35-11-08-02-020	ARO ALL	

E. Location Zones

Zone	Area
115	Area Outboard and Above Nose Landing Gear Wheel Well, Left

F. Prepare for the Installation

SUBTASK 35-11-08-910-002

(1) Read and obey the safety precautions and general instructions before you do the maintenance (TASK 35-00-00-910-801).

G. Bleed Valve Installation

SUBTASK 35-11-08-080-001

(1) Remove the Flareless Tube Cap, 1/2-20 Thread, STD-1130 and Flareless Tube Plug, 1/2-20 Thread, STD-1131 from the open oxygen lines.

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SUBTASK 35-11-08-420-001



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

(2) Put the bleed valve [3] in its installed position.

NOTE: Oxygen clean fittings come from a sealed package and a label 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 35-11-08-420-002

(3) Connect the bleed valve [3] to the B-nuts [7] in the oxygen supply line.

SUBTASK 35-11-08-420-004

(4) Put the clamp [2] over the bleed valve [3].

SUBTASK 35-11-08-420-003

(5) Install the bolts [5] and the washers [6] in the clamp [2].

SUBTASK 35-11-08-860-004

(6) Connect the electrical connector [1].

SUBTASK 35-11-08-860-005



OPEN THE SHUTOFF VALVE ON THE CREW OXYGEN CYLINDER SLOWLY. THE OXYGEN CAN RELEASE WITH A LARGE FORCE WHICH CAN CAUSE AN IGNITION OF THE OXYGEN. THIS CAN CAUSE DAMAGE TO EQUIPMENT AND CAN CAUSE INJURY TO PERSONS.

- (7) Slowly open the shutoff valve on the crew oxygen cylinder to full open.
 - (a) Close the shutoff valve one fourth of a turn.
 - (b) Attach an inspection MS20995CY20 lockwire, G02479 to hold the valve in this position (TASK 20-10-23-400-801).

SUBTASK 35-11-08-790-001

(8) Do a check of the connections for leaks with leak detection compound, G50306.

SUBTASK 35-11-08-790-002

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

H. Put the Airplane Back to Its Usual Condition

SUBTASK 35-11-08-860-008

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

Right Power Management Panel, P210 Row Col Number Name

N 4 C35600 OXY PRESS IND

----- END OF TASK -----

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CHECK VALVE - MAINTENANCE PRACTICES

1. General

- A. This procedure has these tasks:
 - (1) Check Valve Removal.
 - (2) Check Valve Installation. The procedure includes the installation test.
- B. The check valves are in the fill and the supply lines of the crew oxygen system
- C. Access to the check valves is through the electrical equipment bay area.

TASK 35-11-09-000-801

2. Check Valve Removal - Fill Tube

A. References

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

B. Tools/Equipment

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

C. Location Zones

Zone	Area
115	Area Outboard and Above Nose Landing Gear Wheel Well, Left

D. Prepare to Remove the Check Valve

SUBTASK 35-11-09-910-001

(1) Read and obey the safety precautions and general instructions before you do the maintenance (TASK 35-00-00-910-801).

SUBTASK 35-11-09-860-013



DO NOT TIGHTEN THE SHUTOFF VALVE ON THE OXYGEN CYLINDER MORE THAN 25 POUND-INCHES. THIS CAN CAUSE DAMAGE TO THE SHUTOFF VALVE.

(2) Close the shutoff valves [2] on the crew oxygen cylinders. Make sure that you close the valves of all the crew oxygen cylinders.

E. Check Valve Removal

SUBTASK 35-11-09-020-001

(1) Slowly disconnect the connections of the fill tube [7] and the fill check valve [5]. Then disconnect the tubing from the check valve.

SUBTASK 35-11-09-020-008

(2) Remove the fill check valve [5] from the t-fitting of the oxygen tube.

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SUBTASK 35-11-09-480-001



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

(3) Install the protective Flareless Tube Cap, 1/2-20 Thread, STD-1130 or Flareless Tube Plug, 1/2-20 Thread, STD-1131 on the open lines and the check valve, TASK 35-00-00-420-801.

NOTE: Oxygen clean fittings come from a sealed package and a label 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 35-11-09-400-801

3. Check Valve Installation - Fill Tube

A. References

Reference	Title
20-10-23-400-801	Lockwire, Cotter Pins, and Lockrings - Installation (P/B 401)
35-00-00-100-801	Oxygen System Component Cleaning (P/B 701)
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-1543	Cart - Oxygen Bottle (Less Bottles)
	Part #: 20-4505-7000 Supplier: 59603 Part #: 7090-011 Supplier: 00994 Part #: NBOT Supplier: D2029 Opt Part #: 7090-010 Supplier: 00994 Opt Part #: 9761-010 Supplier: 00994

C. Consumable Materials

Reference	Description	Specification
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	BMS15-5 Class A
G02479	Lockwire - MS20995CY20, Copper - 0.020 Inch (0.508 mm) Diameter	NASM20995
G50306	Compound - Leak Detection, Oxygen System	MIL-PRF-25567 (BAC5402)

D. Location Zones

Zone	Area
115	Area Outboard and Above Nose Landing Gear Wheel Well, Left

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E. Prepare for Installation

SUBTASK 35-11-09-910-002

(1) Read and obey the safety precautions and general instructions before you do the maintenance (TASK 35-00-00-910-801).

SUBTASK 35-11-09-080-001

(2) Remove the caps and plugs from the tubes and fittings (TASK 35-00-00-910-801).

SUBTASK 35-11-09-210-001

(3) Examine the threads on the check valve and the fittings to make sure that they are clean. Do this Task if it is necessary to clean the parts: Oxygen System Component Cleaning, TASK 35-00-00-100-801

SUBTASK 35-11-09-420-007

(4) Install the fittings to the check valve, if it is necessary.

F. Procedure

SUBTASK 35-11-09-210-002



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

(1) Put the check valve in its installed position. Make sure that the flow arrow on the check valve points in the same direction as the flow arrow of the fill tube [7].

NOTE: Oxygen clean fittings come from a sealed package and a label 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.

NOTE: The check valve is installed in a direction that will not let the gas flow from the cylinders to the fill line.

SUBTASK 35-11-09-420-001



MAKE SURE YOU USE TWO WRENCHES TO TIGHTEN THE OXYGEN LINE CONNECTIONS. ONE WRENCH TO HOLD THE CONNECTION AND ONE WRENCH TO TIGHTEN. IF YOU DO NOT FOLLOW THESE INSTRUCTIONS DAMAGE TO THE CONNECTION COULD OCCUR.

(2) Install the check valve to the t-fitting of the oxygen tube. Then tighten the nut to 190 in-lb (21.5 N·m).

SUBTASK 35-11-09-420-003



USE TWO WRENCHES TO DISCONNECT OR CONNECT TUBES. IF YOU DO NOT USE A WRENCH ON EACH SIDE OF THE CONNECTION, DAMAGE TO THE TUBES CAN OCCUR.

(3) Install the fill tube to the check valve. Then tighten the B-nut of the fill tube to 190 in-lb (21.5 N·m).

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G. Installation Test

SUBTASK 35-11-09-610-001



MAKE SURE THAT YOU USE ONLY AVIATOR'S BREATHING OXYGEN IN THE AIRPLANE. UNSATISFACTORY QUALITY OXYGEN CAN CAUSE DAMAGE TO EQUIPMENT AND INJURY TO PERSONNEL.



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) Connect the oxygen line from the oxygen cart, COM-1543 to the fill port of the remote service panel.

NOTE: Oxygen clean fittings come from a sealed package and a label 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 35-11-09-860-017



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

(2) Slowly open the supply valve on the oxygen cart, COM-1543. Pressurize the fill tubes to the maximum pressure permitted by the fill port.

<u>NOTE</u>: The fill port will get to the maximum pressure in a very short time. Then the fill valve of the remote fill panel port will close automatically.

SUBTASK 35-11-09-790-008

- (3) Do a check of all the connections of the check valve with the leak detection compound, G50306.
 - (a) Repair the leaks if it is necessary, then examine the connections for leaks again. Leaks are not permitted.
 - (b) Remove the leak detection compound, G50306 with a clean cotton wiper, G00034.

SUBTASK 35-11-09-080-007



DO NOT TIGHTEN THE SHUTOFF VALVE ON THE OXYGEN CYLINDER MORE THAN 25 POUND-INCHES. THIS CAN CAUSE DAMAGE TO THE SHUTOFF VALVE.

- (4) Close the shutoff valve on the oxygen cart, COM-1543.
 - (a) Then disconnect the oxygen service equipment from the fill port of the airplane.
 - (b) Install the cap to the airplane fill port. Then close the door of the remote fill panel.

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H. Put the Airplane Back to Its Usual condition

SUBTASK 35-11-09-860-018



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

- (1) Fully open the shutoff valve on each crew oxygen cylinder.
 - (a) Make sure that you open the valves of all the crew oxygen cylinders.
 - (b) Close the shutoff valve one fourth of a turn.
 - (c) Attach an inspection MS20995CY20 lockwire, G02479 to hold the valve in this position (TASK 20-10-23-400-801).

——— END OF TASK ———

TASK 35-11-09-000-803

4. Check Valve Removal - Supply Tube

Figure 401

A. References

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

B. Location Zones

Zone	Area
115	Area Outboard and Above Nose Landing Gear Wheel Well, Left

C. Prepare to Remove the Check Valve

SUBTASK 35-11-09-910-007

(1) Read and obey the safety precautions and general instructions before you do the maintenance (TASK 35-00-00-910-801).

SUBTASK 35-11-09-860-015



DO NOT TIGHTEN THE SHUTOFF VALVE ON THE OXYGEN CYLINDER MORE THAN 25 POUND-INCHES. THIS CAN CAUSE DAMAGE TO THE SHUTOFF VALVE.

(2) Close the shutoff valves [2] on the crew oxygen cylinders. Make sure that you close the valves of all the crew oxygen cylinders.

D. Procedure



USE TWO WRENCHES TO DISCONNECT OR CONNECT TUBES. IF YOU DO NOT USE A WRENCH ON EACH SIDE OF THE CONNECTION, DAMAGE TO THE TUBES CAN OCCUR.

SUBTASK 35-11-09-020-010

(1) Disconnect the end fitting of the supply tube [6] from the supply check valve [8].

SUBTASK 35-11-09-020-011

(2) Remove the supply check valve [8] from the fitting of the coupling assembly [3].

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SUBTASK 35-11-09-020-013



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 the caps and plugs to the fittings of the oxygen system and the check valve. TASK 35-00-00-420-801.

NOTE: Oxygen clean fittings come from a sealed package and a label 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 35-11-09-400-803

5. Check Valve Installation - Supply Tube

A. References

Reference	Title
20-10-23-400-801	Lockwire, Cotter Pins, and Lockrings - Installation (P/B 401)
35-00-00-100-801	Oxygen System Component Cleaning (P/B 701)
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
G02479	Lockwire - MS20995CY20, Copper - 0.020 Inch (0.508 mm) Diameter	NASM20995
G50306	Compound - Leak Detection, Oxygen System	MIL-PRF-25567 (BAC5402)

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity	
8	Supply check valve	35-11-09-03-150	ARO ALL	

D. Prepare for Installation

SUBTASK 35-11-09-910-008

(1) Read and obey the safety precautions and general instructions before you do the maintenance (TASK 35-00-00-910-801).

SUBTASK 35-11-09-910-009

(2) Remove the caps and plugs from the tubes and fittings (TASK 35-00-00-910-801).

SUBTASK 35-11-09-210-005

(3) Examine the threads on the check valve and the fittings to make sure that they are clean. Clean the parts if it is necessary(Oxygen System Component Cleaning, TASK 35-00-00-100-801)

SUBTASK 35-11-09-420-010

(4) Install the fittings to the supply check valve [8], if it is necessary.

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E. Procedure

SUBTASK 35-11-09-420-011

- (1) Put the supply check valve [8] in its installed position on the fitting of the coupling assembly [3]. Make sure that the flow arrow of the check valve points to the fitting of the coupling assembly [3]
 - (a) Then tighten the connection to 190 in-lb (21.5 N·m).

SUBTASK 35-11-09-420-013

- (2) Install the supply tube [6] to the supply check valve [8]
 - (a) Then tighten the connections to 190 in-lb (21.5 N·m).

F. Installation Test

SUBTASK 35-11-09-420-014

(1) Open the shutoff valve [2] of the applicable crew oxygen cylinder [1]

SUBTASK 35-11-09-790-007

- (2) Do a check of all the connections of the check valve with the leak detection compound, G50306.
 - (a) Repair the leaks if it is necessary, then check the connections for leaks again. Leaks are not permitted.
 - (b) Remove the leak detection compound, G50306 with a clean cotton wiper, G00034.

G. Put the Airplane Back to Its Usual condition

SUBTASK 35-11-09-860-016

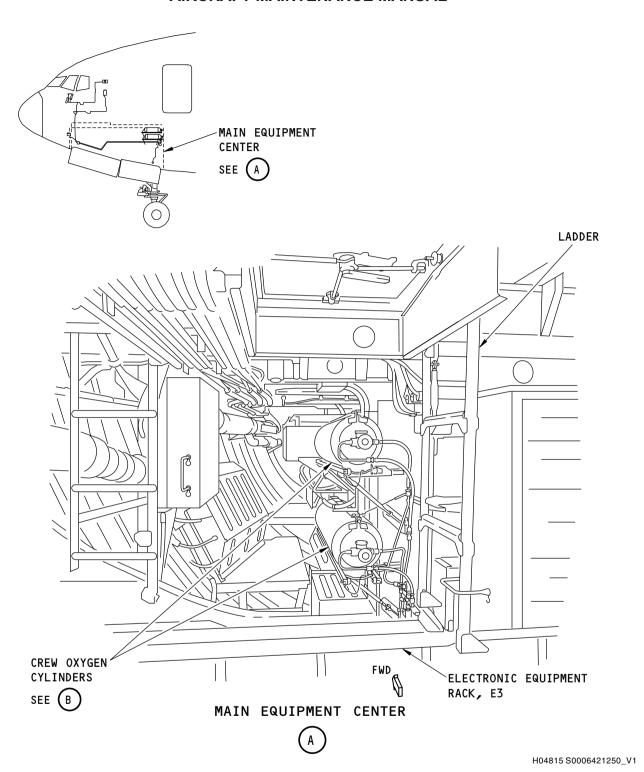


OPEN THE OXYGEN SYSTEM VALVE SLOWLY. IF YOU OPEN OR CLOSE THE VALVES QUICKLY, THE TEMPERATURE OF THE OXYGEN CAN INCREASE. THIS CAN CAUSE A FIRE OR AN EXPLOSION, WHICH CAN CAUSE DAMAGE TO EQUIPMENT AND INJURIES TO PERSONS.

- (1) Fully open the shutoff valve on each crew oxygen cylinder.
 - (a) Make sure that you open the valves of all the crew oxygen cylinders [1].
 - (b) Close the shutoff valve one fourth of a turn.
 - (c) Attach an inspection MS20995CY20 lockwire, G02479 to hold the valve in this position (TASK 20-10-23-400-801).

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Check Valve Installation Figure 401/35-11-09-990-805 (Sheet 1 of 2)

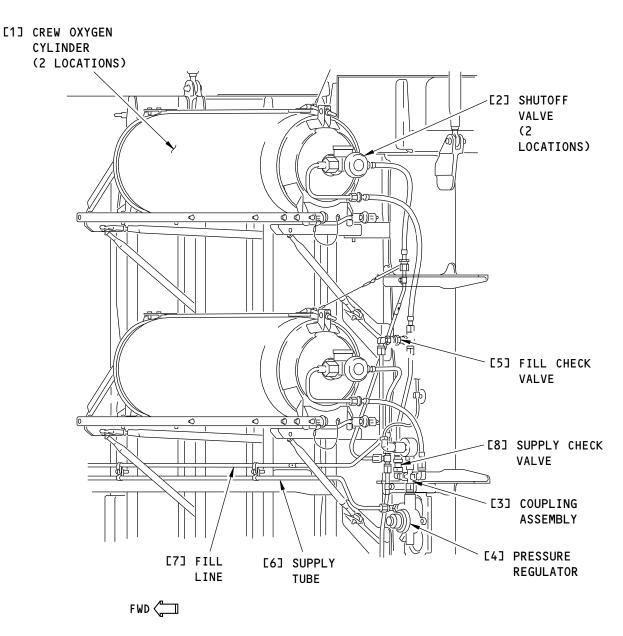
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CREW OXYGEN CYLINDERS



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Check Valve Installation Figure 401/35-11-09-990-805 (Sheet 2 of 2)

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OVERBOARD DISCHARGE INDICATOR - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
 - (1) Overboard Discharge Indicator Disc Removal
 - (2) Overboard Discharge Indicator Disc Installation.
- B. The overboard discharge indicator is a plastic disc in the overboard discharge port. Dirt, grease, and most other contaminants will not usually go into the overboard discharge line with the indicator installed. The overboard discharge indicator will blow out if the safety valve on the cylinder opens. The overboard discharge indicator permits the pressure in the overboard discharge line to increase to 500 psi. This procedure permits the indicator to be replaced if the indicator is blown out or if it needs to be replaced.
- C. The overboard discharge port is on the skin of the airplane, about 10 feet forward of the forward cargo door and on the left side of the airplane.

TASK 35-11-10-000-801

2. Overboard Discharge Indicator Disc Removal

(Figure 401)

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

B. Location Zones

Zone	Area	
115	Area Outboard and Above Nose Landing Gear Wheel Well. Left	

C. Overboard Discharge Indicator Disc Removal

SUBTASK 35-11-10-910-001

(1) Read and obey the safety precautions and general instructions before you do the maintenance (TASK 35-00-00-910-801).

SUBTASK 35-11-10-020-001

(2) Remove the snap ring [2] from the overboard discharge port [1].

SUBTASK 35-11-10-020-002

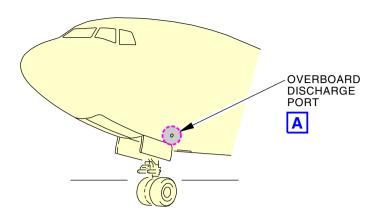
(3) Remove the green indicator disc [3] (or what remains of it) from the overboard discharge port [1].

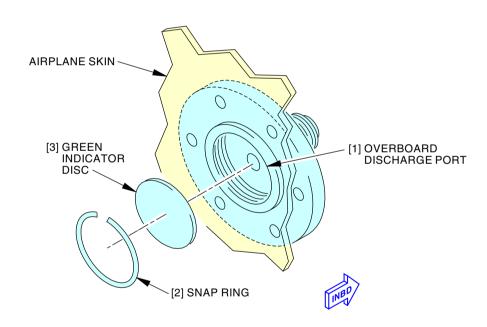
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OVERBOARD DISCHARGE PORT



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Overboard Discharge Port Installation Figure 401/35-11-10-990-801

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TASK 35-11-10-400-801

3. Overboard Discharge Indicator Disc Installation

(Figure 401)

A. References

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

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
2	Ring	35-11-10-05-025	ARO ALL
3	Disc	35-11-10-05-030	ARO ALL

C. Location Zones

Zone	Area
115	Area Outboard and Above Nose Landing Gear Wheel Well, Left

D. Install the Overboard Discharge Indicator Disc

SUBTASK 35-11-10-910-002

(1) Read and obey the safety precautions and general instructions before you do the maintenance (TASK 35-00-00-910-801).

SUBTASK 35-11-10-420-001

(2) Put the green indicator disc [3] in the overboard discharge port [1].

SUBTASK 35-11-10-420-002

(3) Install the snap ring [2] in the overboard discharge port [1].

----- END OF TASK -----

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- EFFECTIVITY -



CREW OXYGEN MASK AND STOWAGE BOX - MAINTENANCE PRACTICES

1. General

- A. This procedure contains scheduled maintenance task data.
- B. This procedure contains these tasks:
 - (1) Crew Oxygen mask and Demand Regulator Removal
 - (2) Crew Oxygen Mask and Demand Regulator Installation
 - (3) Crew Oxygen Mask and Demand Regulator Stowage
 - (4) Stowage Box Assembly Removal
 - (5) Stowage Box Assembly Installation
 - (6) Mask and Regulator Inspection
 - (7) Smoke Goggles/Integrated Mask Goggles Inspection.
- C. The crew oxygen stowage box contains a mask and a demand regulator. There is a stowage box for each member of the crew. The captain and co-pilots oxygen box are outboard of their seats, while the first and second observers oxygen box are adjacent to their seats.

TASK 35-11-18-000-802

2. Crew Oxygen Mask and Demand Regulator Removal

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
211	Flight Compartment, Left
212	Flight Compartment, Right

C. Procedure

(Figure 201)

SUBTASK 35-11-18-910-006

(1) Read and obey the safety precautions and general instructions before you do the maintenance (TASK 35-00-00-910-801).

SUBTASK 35-11-18-860-004

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

Right Power Management Panel, P210

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
N	4	C35600	OXY PRESS IND

SUBTASK 35-11-18-860-005



DO NOT TIGHTEN THE SHUTOFF VALVE ON THE OXYGEN CYLINDER MORE THAN 25 POUND-INCHES. THIS CAN CAUSE DAMAGE TO THE SHUTOFF VALVE.

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

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SUBTASK 35-11-18-870-001

(4) Set the NORMAL/100% switch [17] on the demand regulator to 100%.

SUBTASK 35-11-18-870-002

(5) Set the EMERGENCY/TEST selector [19] on the demand regulator to EMERGENCY.

SUBTASK 35-11-18-870-003

(6) Move the RESET/TEST slide control [15] on the stowage box assembly [5] to bleed the oxygen lines.

SUBTASK 35-11-18-020-007



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

- (7) Disconnect the mask and demand regulator [12] from the microphone connection [26] and oxygen line connection [22] (Figure 203 or Figure 204).
 - (a) Install a clean tube cap or tube plug immediately to each open fitting and port.

NOTE: Oxygen clean fittings come from a sealed package and a label 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 35-11-18-020-005

(8) Remove the mask and demand regulator [12].

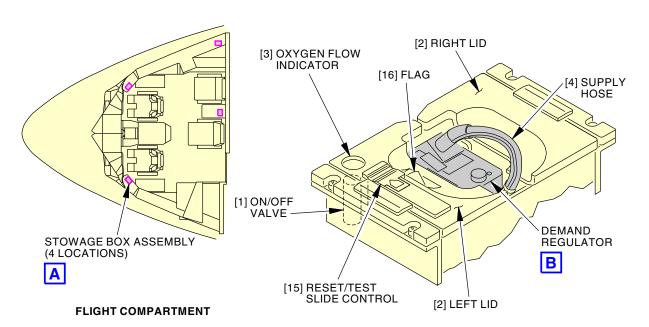
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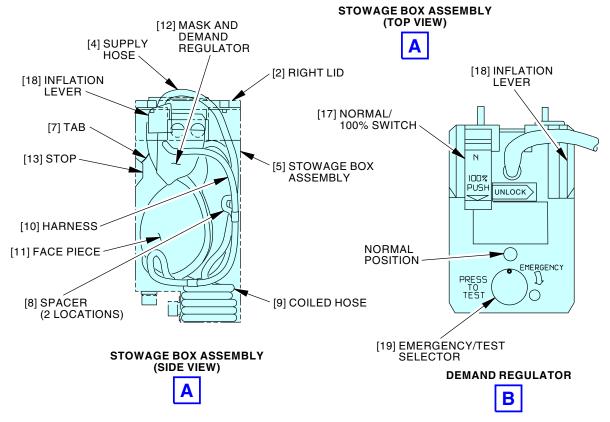
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Crew Oxygen Mask Packing Procedure Figure 201/35-11-18-990-801 (Sheet 1 of 2)

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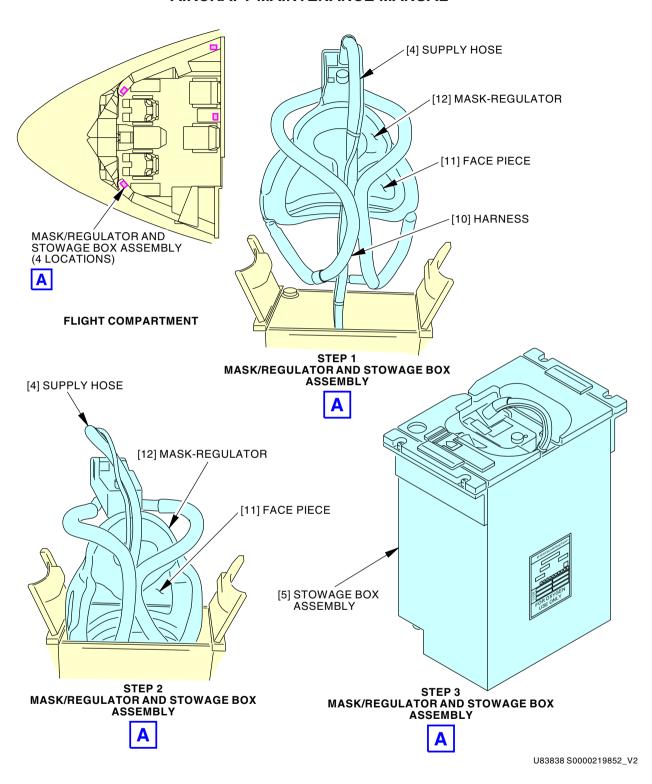
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Crew Oxygen Mask Packing Procedure Figure 201/35-11-18-990-801 (Sheet 2 of 2)

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TASK 35-11-18-400-801

3. Crew Oxygen Mask and Demand Regulator Installation

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)
35-11-00-710-803	Crew Oxygen Mask Stowage Box Test (Mask Stowed In
	Stowage Box) (P/B 501)

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
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	BMS15-5 Class A

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity	
5	Box assembly	35-11-18-01-005	ARO ALL	

D. Location Zones

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

E. Procedure

(Figure 201)

SUBTASK 35-11-18-910-001

(1) Read and obey the safety precautions and general instructions before you do the maintenance (TASK 35-00-00-910-801).

SUBTASK 35-11-18-210-007

- (2) Make sure the harness [10] and supply hose [4] are not twisted.
 - (a) Make sure you remove the protective tube cap or plug.
 - (b) Peel off the protective cover from the face mask goggle, if it is on the mask.

NOTE: A white protective cover may be installed on the face mask goggle by the manufacturer, which may obstruct vision when you use the mask. Make sure you peel off the protective cover before you stow the mask, if the cover is on the mask.

NOTE: A clear protective strip may be installed on some goggles. Do not remove the protective strip if it is installed. It is intended to remove ice or condensation from the goggle lenses during rapid decompression.

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SUBTASK 35-11-18-420-007



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

(3) Open the stowage box doors. Then connect the microphone plug and the oxygen plug of the mask regulator to the microphone connection [26] and the oxygen line connection [22] of the stowage box assembly [5] (Figure 203 or Figure 204).

NOTE: Oxygen clean fittings come from a sealed package and a label 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 35-11-18-420-009



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

(4) Open the shutoff valve on the crew oxygen cylinder slowly.

SUBTASK 35-11-18-710-008

- (5) Do these steps to make sure the microphone operates correctly:
 - (a) Make sure that the speaker volume is turned to the mid-range, at either the Captain or the First Officer Audio Control Panel.
 - (b) Push the FLT microphone switch on the Audio Control Panel.
 - NOTE: MIC light will come on.
 - (c) Move the MIC/interphone switch on the audio control panel to the INT position.
 - (d) Talk into the microphone to make sure that your voice can be heard through the crew station speaker.
 - (e) Turn the SPKR volume on the audio control panel to adjust the volume.

SUBTASK 35-11-18-420-022

(6) Do these steps to put the mask and demand regulator [12] in the box assembly [5]:



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) Stop the procedure if you accidentally push the red inflation lever [18].

NOTE: This will cause the harness [10] to inflate.

- 1) Release the inflation lever [18].
- 2) Remove the mask and harness assembly from the stowage box.
- 3) Let all the oxygen gas go out of the harness [10]. Then start the procedure again.

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DO NOT APPLY EXCESS ISOPROPYL ALCOHOL TO THE MASK FACE PIECE WHILE CLEANING. DAMP A CLOTH WITH ISOPROPYL ALCOHOL AND WIPE THE MASK FACE PIECE. DO NOT USE ISOPROPYL ALCOHOL TO CLEAN THE MASK HARNESS.

- (b) Clean the inside of the oral-nasal facepiece and face seal with cotton wiper, G00034 that is damp with alcohol, B50262 or SAN50 disinfectant cleaner, B50259.
- (c) Make sure the smoke goggle vent valve is open (slide up the vent valve control) if installed on mask.
- (d) Hold the mask and demand regulator [12] and wind the supply hose [4] into a coiled hose [9] in the stowage box assembly [5].
 - 1) Stack the loops of the supply hose [4] using the largest diameter possible.
 - 2) Rotate the mask as necessary to prevent the supply hose [4] from twisting upon itself.
 - 3) Gently press the coiled hose [9] down to make the coils equal in shape taking care not to tangle the stack.
- (e) Grasp the mask and demand regulator [12] and ensure the harness is completely deflated and hangs freely from the face piece [11].
- (f) Position the harness [10] and the supply hose [4] behind the mask and demand regulator [12] and the face piece [11] by gathering the two harness tubes and supply hose together and center them behind the mask.



DO NOT LET THE SUPPLY HOSE, OR THE HARNESS GET INTO THE MASK. IF THE MASK, AND HARNESS DO NOT RELEASE CORRECTLY DURING AN EMERGENCY, IT CAN PREVENT THE FLOW OF OXYGEN. NO OXYGEN FLOW WILL CAUSE INJURIES TO PERSONS.

- (g) While keeping the supply hose [4] and the harness [10] together in front of the mask, fold the excess harness under the top of the face piece [11].
- (h) Install the mask and demand regulator [12] into the stowage box assembly [5] beginning with the top of the harness [10] and the face piece [11].
 - NOTE: The harness [10] must remain on top of the coiled hose [9].
- (i) Continue to slide the mask assembly into the stowage box assembly [5] while insuring the position of the supply hose [4] remains down the center of the mask to ensure proper alignment when doors are closed.
- (j) Once the mask and demand regulator [12] assembly is inside the stowage box assembly [5], make sure the tab [7] on the front of the mask and demand regulator [12] is fully seated against the plastic stop [13] in the stowage box assembly [5].
- (k) Ensure the NORMAL/100% switch [17] is set on 100% (toggle pushed down) and the EMERGENCY/TEST selector [19] is set to the normal position (rotated counterclockwise).
- (I) Shut the left lid [2]; the "OXY ON" flag [16] will be visible on the door.
- (m) Fully depress the RESET/TEST slide control [15] on left hand lid [2] and release. Ensure the "OXY ON" flag [16] disappears when the RESET/TEST slide control [15] is released.

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OBEY EACH STEP IN THIS PROCEDURE. IF YOU DO NOT OBEY THESE STEPS, YOU CAN CAUSE DAMAGE TO THE HARNESS. DAMAGE CAN PREVENT OXYGEN FLOW. NO OXYGEN FLOW DURING AN EMERGENCY CAN CAUSE INJURIES TO PERSONS.

(n) Close the right hand lid [2] of the stowage box assembly [5] using caution not to pinch the supply hose [4].

SUBTASK 35-11-18-860-006

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

Right Power Management Panel, P210

Row	<u>Col</u>	Number	<u>Name</u>
Ν	4	C35600	OXY PRESS IND

SUBTASK 35-11-18-710-009

(8) Do this task: Crew Oxygen Mask Stowage Box Test (Mask Stowed In Stowage Box), TASK 35-11-00-710-803.



TASK 35-11-18-400-803

4. Crew Oxygen Mask and Demand Regulator Stowage

NOTE: This procedure is a scheduled maintenance task.

A. General

(1) This task includes the steps to stow the crew oxygen mask and demand regulator.

B. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-11-00-710-803	Crew Oxygen Mask Stowage Box Test (Mask Stowed In
	Stowage Box) (P/B 501)

C. Consumable Materials

Reference	Description	Specification
B00130	Alcohol - Isopropyl	TT-I-735
B50259	Cleaner - SAN50 Disinfectant, single use sachet. (KI-OSE / SAN50)	
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	BMS15-5 Class A

D. Location Zones

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

E. Procedure

Figure 202

SUBTASK 35-11-18-910-009

(1) Read and obey the safety precautions and general instructions before you do the maintenance (TASK 35-00-00-910-801).

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SUBTASK 35-11-18-210-011

(2) Make sure that the harness [10] and supply hose [4] are not twisted.

SUBTASK 35-11-18-420-026

(3) Do these steps to put the mask and demand regulator [12] in the box assembly [5]:



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) Stop the procedure if you accidentally push the red inflation lever [18].

NOTE: This will cause the harness [10] to inflate.

- 1) Release the inflation lever [18].
- 2) Remove the mask and harness assembly from the stowage box.
- 3) Let all the oxygen gas go out of the harness [10]. Then start the procedure again.
- (b) Clean the inside of the oral-nasal facepiece and face seal with cotton wiper, G00034 that is damp with alcohol, B00130 or SAN50 disinfectant cleaner, B50259.
- (c) Make sure the smoke goggle vent valve is open (slide up the vent valve control) if installed on mask.
- (d) Hold the mask and demand regulator [12] and wind the supply hose [4] into a coiled hose [9] in the stowage box assembly [5].
 - 1) Stack the loops of the supply hose [4] using the largest diameter possible.
 - Rotate the mask as necessary to prevent the supply hose [4] from twisting upon itself.
 - 3) Gently press the coiled hose [9] down to make the coils equal in shape taking care not to tangle the stack.
- (e) Grasp the mask and demand regulator [12] and ensure the harness is completely deflated and hangs freely from the face piece [11].
- (f) Position the harness [10] and the supply hose [4] behind the mask and demand regulator [12] and the face piece [11] by gathering the two harness tubes and supply hose together and center them behind the mask.



DO NOT LET THE SUPPLY HOSE, OR THE HARNESS GET INTO THE MASK. IF THE MASK, AND HARNESS DO NOT RELEASE CORRECTLY DURING AN EMERGENCY, IT CAN PREVENT THE FLOW OF OXYGEN. NO OXYGEN FLOW WILL CAUSE INJURIES TO PERSONS.

- (g) While keeping the supply hose [4] and the harness [10] together in front of the mask, fold the excess harness under the top of the face piece [11].
- (h) Install the mask and demand regulator [12] into the stowage box assembly [5] beginning with the top of the harness [10] and the face piece [11].
 - NOTE: The harness [10] must remain on top of the coiled hose [9].
- (i) Continue to slide the mask assembly into the stowage box assembly [5] while insuring the position of the supply hose [4] remains down the center of the mask to ensure proper alignment when doors are closed.

EFFECTIVITY 35-11-18



- (j) Once the mask and demand regulator [12] assembly is inside the stowage box assembly [5], make sure the tab [7] on the front of the mask and demand regulator [12] is fully seated against the plastic stop [13] in the stowage box assembly [5].
- (k) Ensure the NORMAL/100% switch [17] is set on 100% (toggle pushed down) and the EMERGENCY/TEST selector [19] is set to the normal position (rotated counterclockwise).
- (I) Shut the left lid [2]; the "OXY ON" flag [16] will be visible on the door.
- (m) Fully depress the RESET/TEST slide control [15] on left hand lid [2] and release. Ensure the "OXY ON" flag [16] disappears when the RESET/TEST slide control [15] is released.



OBEY EACH STEP IN THIS PROCEDURE. IF YOU DO NOT OBEY THESE STEPS, YOU CAN CAUSE DAMAGE TO THE HARNESS. DAMAGE CAN PREVENT OXYGEN FLOW. NO OXYGEN FLOW DURING AN EMERGENCY CAN CAUSE INJURIES TO PERSONS.

(n) Close the right hand lid [2] of the stowage box assembly [5] using caution not to pinch the supply hose [4].

SUBTASK 35-11-18-710-014

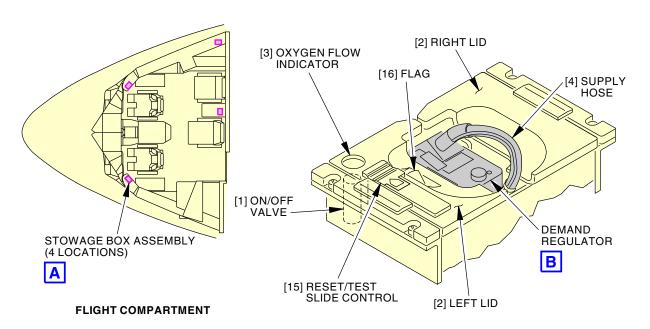
(4) Do this task: Crew Oxygen Mask Stowage Box Test (Mask Stowed In Stowage Box), TASK 35-11-00-710-803.

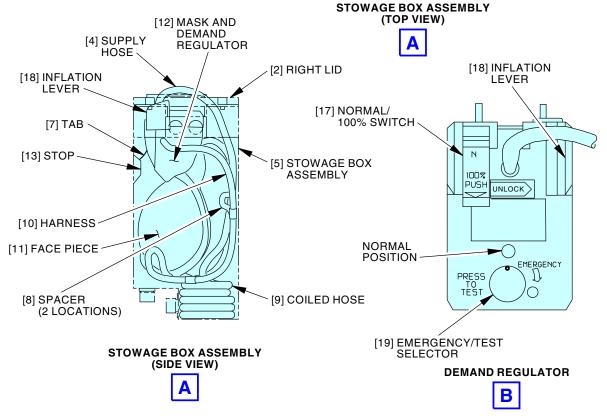
----- END OF TASK -----

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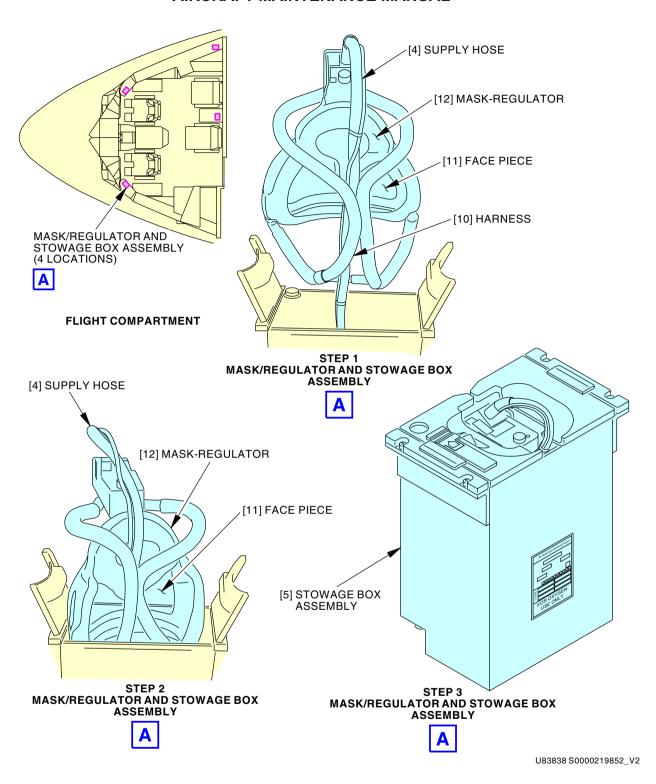
Crew Oxygen Mask and Demand Regulator Stowage Figure 202/35-11-18-990-806 (Sheet 1 of 2)

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Crew Oxygen Mask and Demand Regulator Stowage Figure 202/35-11-18-990-806 (Sheet 2 of 2)

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TASK 35-11-18-000-801

5. Stowage Box Assembly Removal

(Figure 203 or Figure 204)

NOTE: This procedure is a scheduled maintenance task.

A. References

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

B. Tools/Equipment

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

C. Location Zones

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

D. Prepare for the Removal

SUBTASK 35-11-18-910-002

(1) Read and obey the safety precautions and general instructions before you do the maintenance (TASK 35-00-00-910-801).

SUBTASK 35-11-18-860-002

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

Right Power Management Panel, P210

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Ν	4	C35600	OXY PRESS IND

SUBTASK 35-11-18-860-003



DO NOT TIGHTEN THE SHUTOFF VALVE ON THE OXYGEN CYLINDER MORE THAN 25 POUND-INCHES. THIS CAN CAUSE DAMAGE TO THE SHUTOFF VALVE.

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

E. Remove the Stowage Box Assembly

SUBTASK 35-11-18-710-003

(1) Set the NORMAL/100% switch [17] to 100%.

SUBTASK 35-11-18-710-004

(2) Set the EMERGENCY/TEST selector [19] to EMERGENCY.

SUBTASK 35-11-18-710-005

(3) Move the RESET/TEST slide control [15] on the stowage box assemblies [5] to let the oxygen in the lines to decrease.

SUBTASK 35-11-18-020-006

(4) Loosen the stud [20] from the box assembly [5] and lift the box assembly [5] up.

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SUBTASK 35-11-18-020-001

(5) Disconnect the electrical wire bundle [23].

SUBTASK 35-11-18-020-002



LOOSEN THE FITTING CONNECTIONS SLOWLY. THE REMAINING OXYGEN CAN RELEASE WITH A LARGE FORCE. THIS CAN CAUSE INJURY TO PERSONS AND CAN CAUSE DAMAGE TO THE AIRPLANE OR EQUIPMENT.

- (6) Slowly disconnect the oxygen line connection [22] from the stowage box assemblies [5].
 - (a) Hold the stowage box assembly [5] in one hand and loosen the connection with a wrench.

SUBTASK 35-11-18-020-003

(7) Remove the stowage box assemblies [5].

SUBTASK 35-11-18-410-001



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

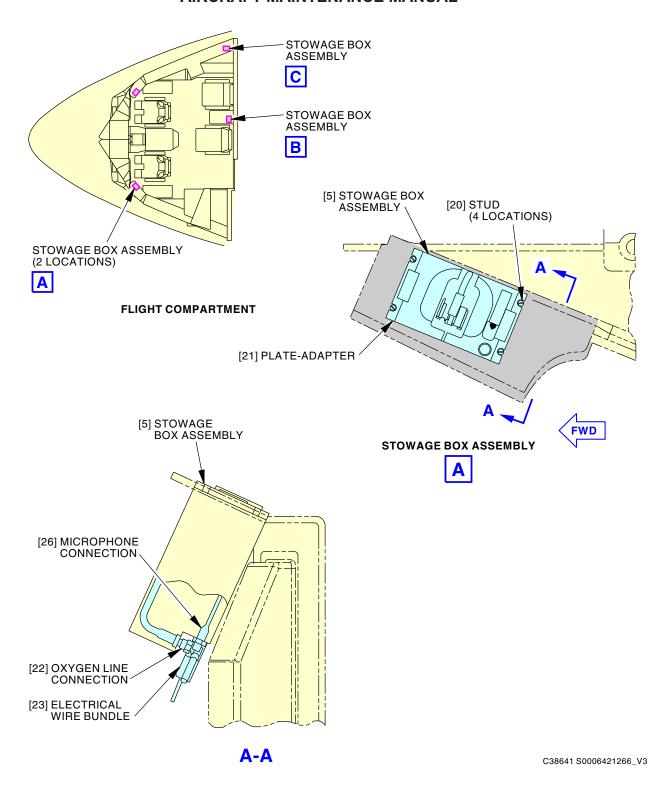
(8) Install clean Flareless Tube Cap, 1/2-20 Thread, STD-1130 or Flareless Tube Plug, 1/2-20 Thread, STD-1131 on the open fittings and ports, TASK 35-00-00-420-801.

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.

------ END OF TASK ------

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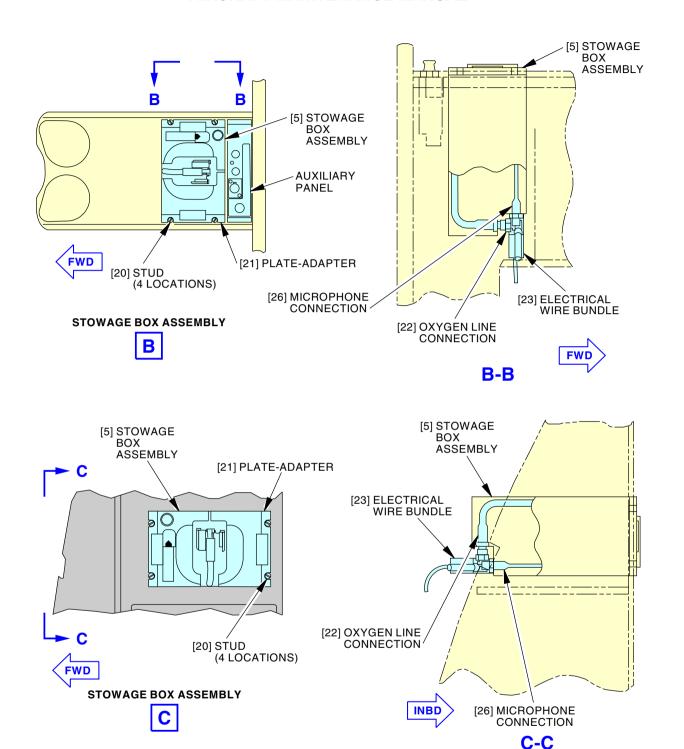
Crew Oxygen Box Installation Figure 203/35-11-18-990-802 (Sheet 1 of 2)

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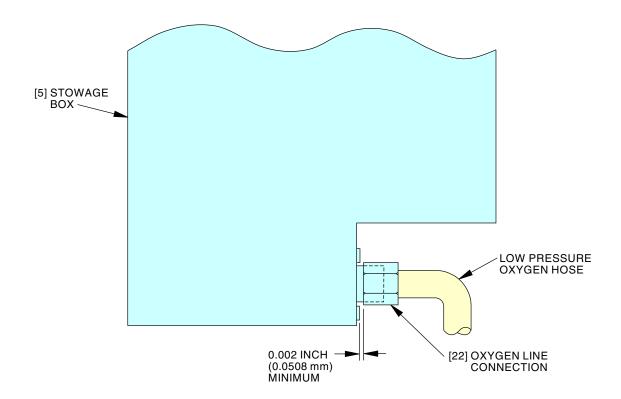


Crew Oxygen Box Installation Figure 203/35-11-18-990-802 (Sheet 2 of 2)

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Oxygen Box Hose Installation Figure 204/35-11-18-990-805

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TASK 35-11-18-400-802

6. Stowage Box Assembly Installation

(Figure 203 or Figure 204)

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
20-10-23-400-801	Lockwire, Cotter Pins, and Lockrings - Installation (P/B 401)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-11-00-710-803	Crew Oxygen Mask Stowage Box Test (Mask Stowed In Stowage Box) (P/B 501)
35-11-00-710-804	Crew Oxygen Mask Regulator/Microphone Test (P/B 501)

B. Tools/Equipment

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

C. Consumable Materials

Reference	Description	Specification
A50464	Tape - Vinyl, Adhesive Coated	BMS5-179
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	BMS15-5 Class A
G02129	Tape - 223S (use until stock depleted)	
G02479	Lockwire - MS20995CY20, Copper - 0.020 Inch (0.508 mm) Diameter	NASM20995
G50306	Compound - Leak Detection, Oxygen System	MIL-PRF-25567 (BAC5402)

D. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity	
5	Box assembly	35-11-18-01-005	ARO ALL	

E. Location Zones

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

F. Procedure

SUBTASK 35-11-18-910-003

(1) Read and obey the safety precautions and general instructions before you do the maintenance (TASK 35-00-00-910-801).

SUBTASK 35-11-18-200-001

- (2) Make sure that the oxygen hose sleeve is in its position.
 - (a) Attach the sleeve to the hose at each end with three layers of 1.0 in. (25.4 mm) wide, Nitto 223S Tape, G02129 or tape, A50464.

NOTE: The sleeve must not keep the part mark on the hose from view.

1) The installed width of the tape must be 1.0 in. (25.4 mm) to 1.250 in. (31.750 mm).

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SUBTASK 35-11-18-020-004

(3) Remove all of the Flareless Tube Cap, 1/2-20 Thread, STD-1130 or Flareless Tube Plug, 1/2-20 Thread, STD-1131 from the fittings and ports.

SUBTASK 35-11-18-420-004

(4) Connect the electrical wire bundle [23] to the stowage box assembly [5].

SUBTASK 35-11-18-420-001



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



MAKE SURE THE SUPPLY HOSE DOES NOT HAVE A TWIST OR KINK. THIS CAN CAUSE A POSSIBLE LOSS OF OXYGEN THROUGH THE SUPPLY HOSE. THIS CAN CAUSE INJURY TO PERSONS AND DAMAGE TO THE EQUIPMENT.

- (5) Connect the oxygen line connection [22] to the stowage box assemblies [5]:
 - (a) Loosely tighten the oxygen line connection [22] with your hand.

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.

- (b) Use a wrench to tighten the oxygen line connection [22] to 190 +2 / -9 in-lb (219 +2 / -10 kg-cm).
 - 1) Make sure that a minimum of 0.002 in. (0.005 cm) clearance is between the B-nut and the stowage box fitting.



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

- (c) Open the shutoff valve on the crew oxygen cylinder slowly until it is fully open.
 - 1) Close the shutoff valve one fourth of a turn.
 - 2) Attach an inspection MS20995CY20 lockwire, G02479 to hold the valve in this position (TASK 20-10-23-400-801).
- (d) Do a test of the connection for leaks.
 - Apply leak detection compound, G50306 around the oxygen connection to do a check for leaks.
 - 2) Remove the leak detection compound, G50306 with a clean cotton wiper, G00034 immediately after the test.

SUBTASK 35-11-18-420-006

(6) Put the stowage box assemblies [5] back in its installed position.

SUBTASK 35-11-18-420-002

(7) Put the plate-adapter [21] back in its usual position.

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SUBTASK 35-11-18-410-002

(8) Install the studs [20] in the stowage box assemblies [5].

SUBTASK 35-11-18-710-006

(9) Move the NORMAL/100% switch [17] to the N (normal) position.

SUBTASK 35-11-18-710-007

(10) Do these tasks:

Crew Oxygen Mask Stowage Box Test (Mask Stowed In Stowage Box), TASK 35-11-00-710-803

Crew Oxygen Mask Regulator/Microphone Test, TASK 35-11-00-710-804

SUBTASK 35-11-18-860-007

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

Right Power Management Panel, P210

Row	<u>Col</u>	Number	<u>Name</u>
N	4	C35600	OXY PRESS INC

----- END OF TASK -----

TASK 35-11-18-210-801

7. Mask and Demand Regulator Inspection

(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)

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity	
12	Mask and demand regulator	35-11-18-03-010	ARO 001-014	
		35-11-18-03-011	ARO 001-014	
		35-11-18-52-070	ARO 001-014	

C. Location Zones

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

D. Procedure

SUBTASK 35-11-18-910-004

(1) Read and obey the safety precautions and general instructions before you do the maintenance (TASK 35-00-00-910-801).

SUBTASK 35-11-18-010-001

(2) Do this task: Crew Oxygen Mask and Demand Regulator Removal, TASK 35-11-18-000-802.

SUBTASK 35-11-18-210-002

- (3) Do a visual check of the mask and demand regulator [12], supply hose [4], harness [10], cord, and microphone assembly:
 - (a) Make sure the parts are clean.

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- (b) Examine the parts for deterioration.
- (c) Make sure there is no discoloration.
- (d) Make sure the parts do not have cracks.
- (e) Make sure all the other parts are not damaged.

SUBTASK 35-11-18-210-003

(4) Make sure the fittings and connections are attached correctly.

SUBTASK 35-11-18-410-003

(5) To replace the mask and demand regulator [12], supply hose [4] or other parts that are not in satisfactory condition, do this task: Crew Oxygen Mask and Demand Regulator Installation, TASK 35-11-18-400-801.



TASK 35-11-18-200-801

8. Smoke Goggles Inspection/Integrated Mask Goggles Inspection

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
211	Flight Compartment, Left
212	Flight Compartment, Right

C. Procedure

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SUBTASK 35-11-18-910-005

(1) Read and obey the safety precautions and general instructions before you do the maintenance (TASK 35-00-00-910-801).

SUBTASK 35-11-18-210-010

- (2) Examine the face seals on the integrated mask goggles:
 - (a) Make sure they are clean.
 - (b) Make sure there is no deterioration.
 - (c) Make sure there are no cracks or tears.
 - (d) Make sure there is no discoloration.
 - (e) Make sure the face seals are soft and quickly return to the initial position when you push on it.
 - (f) Make sure the integrated goggles are securely attached to the face mask regulator assembly.

NOTE: If the integrated goggles are stowed separately, then you must make sure that the goggles will securely attach to the face mask regulator assembly.

 END	OE	TASK	
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PASSENGER OXYGEN SYSTEM - MAINTENANCE PRACTICES

1. General

- A. This procedure has these tasks:
 - (1) Passenger oxygen system Deactivation
 - (2) Passenger oxygen system Activation

TASK 35-21-00-040-801

2. Passenger Oxygen System - Deactivation

Figure 201

A. General

(1) This task deactivates the passenger oxygen system

B. References

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

C. Tools/Equipment

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

Reference	Description
SPL-1932	Stop - Test Door, PSU
	Part #: 418W1017-20 Supplier: 81205
	Part #: G35003-1 Supplier: 81205

D. Consumable Materials

Reference	Description	Specification
G50778	Tape - Polyester Film, Solvent Resistant, Pressure Sensitive - 3M No. 850 (CPN 4007384)	L-T-100

E. Location Zones

Zone	Area
115	Area Outboard and Above Nose Landing Gear Wheel Well, Left
200	Upper Half of Fuselage
211	Flight Compartment, Left
212	Flight Compartment, Right

F. Access Panels

Number	Name/Location
117AL	Main Equipment Center Access Door

G. Procedure

SUBTASK 35-21-00-910-005

(1) Read and obey the safety precautions and general instructions. Do this task:TASK 35-00-00-910-801.

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SUBTASK 35-21-00-860-045

(2) Install (PSU test door stop, SPL-1932) or (tape, G50778) on the oxygen mask doors to prevent the mask from full deployment.

NOTE: If you use the tool, make sure that the tool is installed through the slot in the door. The tool must engage the hook in the PSU housing.

SUBTASK 35-21-00-010-002

(3) Open this door:

Number Name/Location

117AL Main Equipment Center Access Door

SUBTASK 35-21-00-860-046



BE CAREFUL WHEN YOU DO WORK AROUND ENERGIZED PANELS. HIGH VOLTAGES CAN KILL YOU.

(4) Open these circuit breakers:

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	3	C35403	L PAX OXY
Α	4	C35405	C PAX OXY
Α	5	C35404	R PAX OXY
Н	3	C35606	CHAN A OXY DEPLOY
Н	4	C35607	CHAN B OXY DEPLOY

H. Passenger Oxygen System - Tryout

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

SUBTASK 35-21-00-860-047

(1) Make sure that the oxygen mask doors are kept up by a (PSU test door stop, SPL-1932) or (tape, G50778) to prevent the mask from full deployment.

NOTE: If you use the tool, make sure that the tool is installed through the slot in the door. The tool must engage the hook in the PSU housing.

SUBTASK 35-21-00-860-048

(2) Make sure that these circuit breakers are open and have safety tags:

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	3	C35403	L PAX OXY
Α	4	C35405	C PAX OXY
Α	5	C35404	R PAX OXY
Н	3	C35606	CHAN A OXY DEPLOY
Н	4	C35607	CHAN B OXY DEPLOY

SUBTASK 35-21-00-860-049

(3) Make sure that the airplane is in the ground mode.

SUBTASK 35-21-00-700-001

- (4) Do a test of the passenger oxygen system:
 - (a) Push the STAT switch on the display-select panel on the right side of the glareshield panel, P7 (in the flight compartment).

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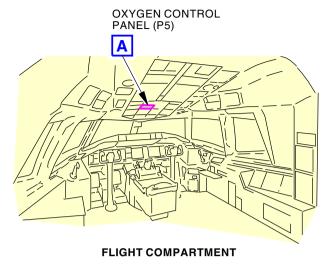
- (b) Make sure that these messages show on the Multifunction Display (MFD):
 - 1) PASS OXYGEN C
 - 2) PASS OXYGEN L
 - 3) PASS OXYGEN R
- (c) Push and release the PASS OXY "ON" switch/light on the WINDOW HEAT/EMER LTS module (M30001) on the P5 panel.
- (d) Make sure that all of the oxygen mask doors stay closed.

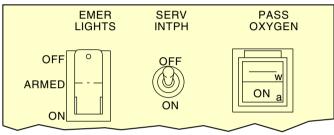
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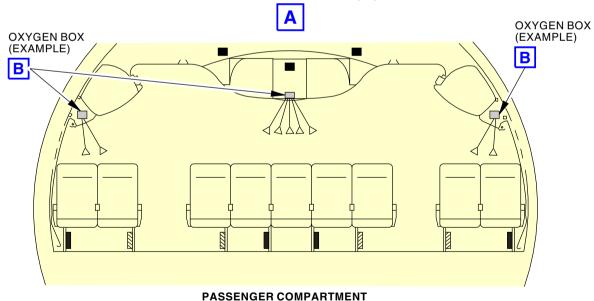
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OXYGEN CONTROL PANEL (P5)



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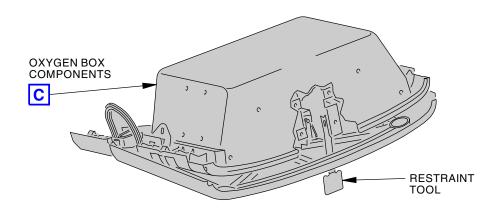
Passenger Oxygen System Figure 201/35-21-00-990-803 (Sheet 1 of 2)

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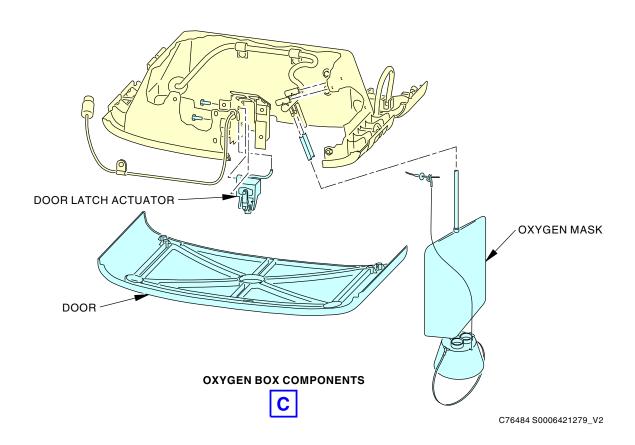
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Passenger Oxygen System Figure 201/35-21-00-990-803 (Sheet 2 of 2)

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TASK 35-21-00-440-801

3. Passenger Oxygen System - Activation

Figure 201

A. General

(1) This task activates the passenger oxygen system

B. References

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

C. Tools/Equipment

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

Reference	Description
SPL-1932	Stop - Test Door, PSU
	Part #: 418W1017-20 Supplier: 81205
	Part #: G35003-1 Supplier: 81205

D. Consumable Materials

Reference	Description	Specification
G50778	Tape - Polyester Film, Solvent Resistant, Pressure Sensitive - 3M No. 850 (CPN	L-T-100
	4007384)	

E. Location Zones

Zone	Area
115	Area Outboard and Above Nose Landing Gear Wheel Well, Left
200	Upper Half of Fuselage
211	Flight Compartment, Left
212	Flight Compartment, Right

F. Procedure

SUBTASK 35-21-00-910-006

(1) Read and obey the safety precautions and general instructions. Do this task:TASK 35-00-00-910-801.

SUBTASK 35-21-00-860-050



BE CAREFUL WHEN YOU DO WORK AROUND ENERGIZED PANELS. HIGH VOLTAGES CAN KILL YOU.

35-21-00

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(WARNING PRECEDES)



DO NOT CLOSE THE CIRCUIT BREAKER IN LESS THAN 15 SECONDS AFTER YOU PUSH THE PASSENGER OXYGEN SWITCH. IT IS POSSIBLE THAT THE OXYGEN DOORS WILL OPEN IF YOU CLOSE THE CIRCUIT BREAKER DURING THAT TIME. DAMAGE TO EQUIPMENT CAN OCCUR.

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

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	3	C35403	L PAX OXY
Α	4	C35405	C PAX OXY
Α	5	C35404	R PAX OXY
Н	3	C35606	CHAN A OXY DEPLOY
Н	4	C35607	CHAN B OXY DEPLOY

SUBTASK 35-21-00-860-051

(3) Push the STAT switch on the display-select panel on the right side of the glareshield panel, P7 (in the flight compartment).

SUBTASK 35-21-00-700-002

- (4) Make sure that these messages do not show on the Multifunction Display (MFD):
 - (a) PASS OXYGEN C
 - (b) PASS OXYGEN L
 - (c) PASS OXYGEN R.

SUBTASK 35-21-00-860-052

(5) Remove the (PSU test door stop, SPL-1932) or (tape, G50778) from the oxygen mask doors.

----- END OF TASK -----

ARO ALL 35-21-00



PASSENGER OXYGEN SYSTEM - ADJUSTMENT/TEST

1. General

- A. This procedure contains scheduled maintenance task data.
- B. This procedure has this task:
 - (1) Oxygen Box Door Latch/Actuator Test.
 - (2) Oxygen Box Door Latch Actuator and Hinge Adjustment.
- C. This procedure is a test to make sure the passenger oxygen system operates correctly. The only test in the passenger oxygen system is to make sure the door latch/actuator works correctly. The door latch/actuator on the oxygen box must open the oxygen box once the oxygen is turned on or there is a decompression.

TASK 35-21-00-710-801

2. Oxygen Box Door Latch/Actuator Operational Test

(Figure 501)

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
32-09-00-040-801	Air Mode Simulation - Preparation (P/B 201)
32-09-00-440-801	Air Mode Simulation - Restoration (P/B 201)
32-09-00-860-801	Air/Ground Mode Simulation (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
SPL-1932	Stop - Test Door, PSU
	Part #: 418W1017-20 Supplier: 81205
	Part # G35003-1 Supplier: 81205

C. Consumable Materials

Reference	Description	Specification
G50778	Tape - Polyester Film, Solvent Resistant, Pressure Sensitive - 3M No. 850 (CPN 4007384)	L-T-100

D. Location Zones

Zone	Area
200	Upper Half of Fuselage

E. Prepare System for Test

SUBTASK 35-21-00-910-001

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

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SUBTASK 35-21-00-210-011

(2) Make sure that the oxygen mask doors are kept up by a (PSU test door stop, SPL-1932) or (tape, G50778) to prevent the mask from full deployment.

NOTE: If you use the tool, make sure that the tool is installed through the slot in the door. The tool must engage the hook in the PSU housing.

SUBTASK 35-21-00-710-001

(3) Make sure that the airplane is in the ground mode.

SUBTASK 35-21-00-860-003

(4) Open these circuit breakers and install safety tags:

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	3	C35403	L PAX OXY
Α	4	C35405	C PAX OXY
Α	5	C35404	R PAX OXY

F. Start the Circuit Breaker Test

SUBTASK 35-21-00-710-002

(1) Push the STAT switch on the display-select panel on the right side of the glareshield panel, P7 (in the flight compartment).

SUBTASK 35-21-00-860-004

- (2) Make sure that these messages show on the Multifunction Display (MFD):
 - (a) PASS OXYGEN C
 - (b) PASS OXYGEN L
 - (c) PASS OXYGEN R.

SUBTASK 35-21-00-710-003

(3) Push and release the PASS OXY "ON" switch/light on the WINDOW HEAT/EMER LTS module (M30001) on the P5 panel.

SUBTASK 35-21-00-860-039

(4) Make sure that all of the oxygen mask doors stay closed.

SUBTASK 35-21-00-860-005



DO NOT CLOSE THE CIRCUIT BREAKER IN LESS THAN 15 SECONDS AFTER YOU PUSH THE PASSENGER OXYGEN SWITCH. IT IS POSSIBLE THAT THE OXYGEN DOORS WILL OPEN IF YOU CLOSE THE CIRCUIT BREAKER DURING THAT TIME. DAMAGE TO EQUIPMENT CAN OCCUR.

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

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	3	C35403	L PAX OXY

SUBTASK 35-21-00-710-004

(6) Push the STAT switch on the display-select panel on the right side of the glareshield panel, P7.

SUBTASK 35-21-00-210-012

- (7) Make sure that these messages show on the MFD:
 - (a) PASS OXYGEN R

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(b) PASS OXYGEN C.

SUBTASK 35-21-00-860-006

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

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	4	C35405	C PAX OXY

SUBTASK 35-21-00-710-005

(9) Push the STAT switch on the display-select panel on the right side of the glareshield panel, P7.

SUBTASK 35-21-00-710-006

(10) Make sure that the PASS OXYGEN R message shows on the MFD.

SUBTASK 35-21-00-860-007

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

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	5	C35404	R PAX OXY

SUBTASK 35-21-00-710-007

(12) Push the STAT switch on the display-select panel on the right side of the glareshield panel, P7. SUBTASK 35-21-00-210-013

(13) Make sure that the message PASS OXYGEN is not on the MFD.

SUBTASK 35-21-00-860-017

(14) Open these circuit breakers and install safety tags:

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	3	C35403	L PAX OXY
Α	4	C35405	C PAX OXY
Α	5	C35404	R PAX OXY

G. Passenger Oxygen Manual Deploy for the Left Outboard Passenger Service Units (PSUs)

SUBTASK 35-21-00-860-022

(1) Put the airplane in the air-mode. Do the applicable Tasks:

Air Mode Simulation - Preparation, TASK 32-09-00-040-801

Air/Ground Mode Simulation, TASK 32-09-00-860-801.

SUBTASK 35-21-00-860-009

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

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	3	C35403	L PAX OXY
Н	3	C35606	CHAN A OXY DEPLOY
Н	4	C35607	CHAN B OXY DEPLOY

SUBTASK 35-21-00-710-008

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- (3) Push and release the PASS OXY "ON" switch/light on the WINDOW HEAT/EMER LTS module (M30001) on the P5 panel.
 - (a) Make sure that the PASS OXY "ON" switch/light comes on.

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SUBTASK 35-21-00-210-015

(4) Make sure that the PASS OXYGEN ON message shows on the EICAS.

NOTE: The PASS OXYGEN ON message will flash or remain steady.

SUBTASK 35-21-00-210-016

- (5) Make sure that the oxygen mask doors at these locations open. They are held in their position by the (PSU test door stop, SPL-1932) or (tape, G50778):
 - (a) All left outboard PSUs
 - (b) All of the left door Flight Attendant Stations
 - (c) Overhead Flight Crew Rest, left seat and bunk.

SUBTASK 35-21-00-860-023

(6) Put the airplane in the ground mode (TASK 32-09-00-860-801).

SUBTASK 35-21-00-210-017

(7) Make sure that the PASS OXY "ON" switch/light on the P5 panel is not on (approximately 2 minutes after you put the airplane in the ground mode).

SUBTASK 35-21-00-210-018

(8) Make sure that the PASS OXYGEN ON message does not show on the EICAS (approximately 2 minutes after you put the airplane in the ground mode).

SUBTASK 35-21-00-860-018

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

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	3	C35403	L PAX OXY

H. Passenger Oxygen Manual Deploy for the Right Outboard Passenger Service Units (PSUs)

SUBTASK 35-21-00-860-024

(1) Put the airplane in the air mode. Do the applicable Tasks:

Air Mode Simulation - Preparation, TASK 32-09-00-040-801 Air/Ground Mode Simulation, TASK 32-09-00-860-801.

SUBTASK 35-21-00-860-011

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

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	5	C35404	R PAX OXY
Н	3	C35606	CHAN A OXY DEPLOY
Н	4	C35607	CHAN B OXY DEPLOY

SUBTASK 35-21-00-710-019

- (3) Push and release the PASS OXY "ON" switch/light on the WINDOW HEAT/EMER LTS module (M30001) on the P5 panel.
 - (a) Make sure that the PASS OXY "ON" switch/light comes on.

SUBTASK 35-21-00-210-034

(4) Make sure that the PASS OXYGEN ON message shows on the EICAS.

NOTE: The PASS OXYGEN ON message will flash or remain steady.

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SUBTASK 35-21-00-210-003

- (5) Make sure that the oxygen mask doors at these locations open. The doors are held in their position by the (PSU test door stop, SPL-1932) or (tape, G50778):
 - (a) All right outboard PSUs
 - (b) All right door Flight Attendant Stations

SUBTASK 35-21-00-860-025

(6) Put the airplane in the ground mode (TASK 32-09-00-860-801).

SUBTASK 35-21-00-210-004

(7) Make sure that the PASS OXY "ON" switch/light on the P5 panel is not on (approximately 2 minutes after you put the airplane in the ground mode).

SUBTASK 35-21-00-210-005

(8) Make sure that the message PASS OXYGEN ON does not show on the EICAS (approximately 2 minutes after you put the airplane in the ground mode).

SUBTASK 35-21-00-860-019

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

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	5	C35404	R PAX OXY

I. Passenger Oxygen Manual Deploy for the Center Passenger Service Units (PSUs)

SUBTASK 35-21-00-860-026

(1) Put the airplane in the air mode. Do the applicable Tasks:

Air Mode Simulation - Preparation, TASK 32-09-00-040-801 Air/Ground Mode Simulation, TASK 32-09-00-860-801.

SUBTASK 35-21-00-860-013

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

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	4	C35405	C PAX OXY
Н	3	C35606	CHAN A OXY DEPLOY
Н	4	C35607	CHAN B OXY DEPLOY

SUBTASK 35-21-00-710-020

- (3) Push and release the PASS OXY "ON" switch/light on the WINDOW HEAT/EMER LTS module (M30001) on the P5 panel.
 - (a) Make sure that the PASS OXY "ON" switch/light comes on.

SUBTASK 35-21-00-210-035

(4) Make sure that the PASS OXYGEN ON message shows on the EICAS.

<u>NOTE</u>: The PASS OXYGEN ON message will flash or remain steady.

SUBTASK 35-21-00-210-008

- (5) Make sure that the oxygen mask doors at these locations open. They are held in their position by the (PSU test door stop, SPL-1932) or (tape, G50778):
 - (a) All center PSUs
 - (b) All lavatories

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(c) All center Flight Attendant stations

SUBTASK 35-21-00-860-027

(6) Put the airplane in the ground mode (TASK 32-09-00-860-801).

SUBTASK 35-21-00-210-009

(7) Make sure that the PASS OXY "ON" switch/light on the P5 panel is not on (approximately 2 minutes after you put the airplane in the ground mode).

SUBTASK 35-21-00-210-010

(8) Make sure that the message PASS OXYGEN ON does not show on the EICAS (approximately 2 minutes after you put the airplane in the ground mode).

SUBTASK 35-21-00-860-020

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

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	4	C35405	C PAX OXY

J. Put the System to Its Usual Condition

SUBTASK 35-21-00-860-043

If necessary, do this task to put the airplane to the ground mode:
 Air Mode Simulation - Restoration, TASK 32-09-00-440-801

SUBTASK 35-21-00-860-015

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

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	3	C35403	L PAX OXY
Α	4	C35405	C PAX OXY
Α	5	C35404	R PAX OXY

SUBTASK 35-21-00-210-019



MAKE SURE NONE OF THE OXYGEN MASK EQUIPMENT IS CAUGHT ON ANYTHING BEFORE YOU CLOSE THE DOOR. THE OXYGEN MASKS MUST BE FREE TO FALL WHEN THEY DEPLOY. IF THEY DO NOT, IT CAN CAUSE INJURY TO PERSONS.

(3) Make sure that the masks, oxygen hoses and lanyards are not caught in the oxygen box door.

SUBTASK 35-21-00-210-020



MAKE SURE YOU DO A VISUAL CHECK TO MAKE SURE NOTHING IS CAUGHT IN THE DOOR OR IN THE ACTUATOR. INJURY TO PERSONS OR DAMAGE TO EQUIPMENT CAN OCCUR.

(4) Do a visual check of the door alignment to make sure that nothing is caught in the door or in the actuator.

SUBTASK 35-21-00-710-011

(5) Push the latch/actuator lever up until the end of the lever is held in its position by the magnetic solenoid.

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SUBTASK 35-21-00-710-012



DO NOT CLOSE THE OXYGEN DOOR UNTIL THE LATCH LEVER IS HELD IN POSITION BY THE MAGNETIC SOLENOID. IF YOU CLOSE THE DOOR WITH THE LATCH LEVER IN THE WRONG POSITION, IT COULD CAUSE DAMAGE TO THE OXYGEN BOX DOOR.

(6) Close the oxygen box doors.

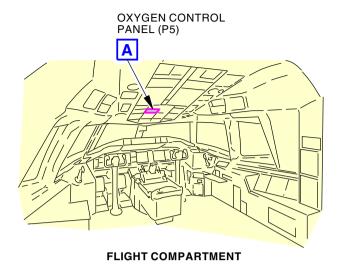
SUBTASK 35-21-00-020-001

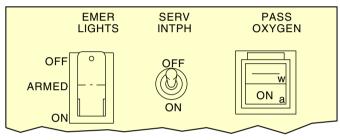
(7) Remove the (PSU test door stop, SPL-1932) or (tape, G50778).

——— END OF TASK ———

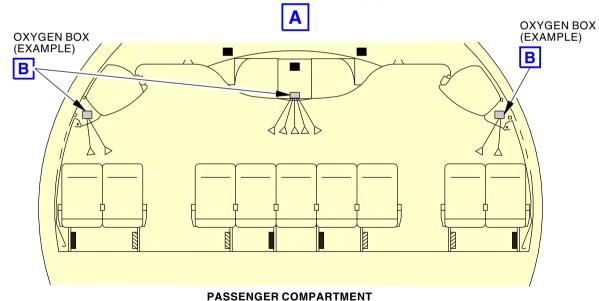
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OXYGEN CONTROL PANEL (P5)



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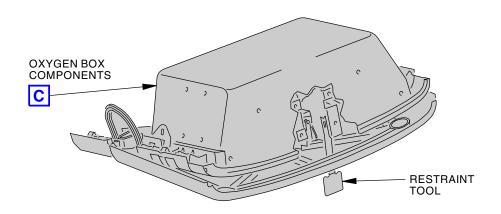
Passenger Oxygen System Test Figure 501/35-21-00-990-801 (Sheet 1 of 2)

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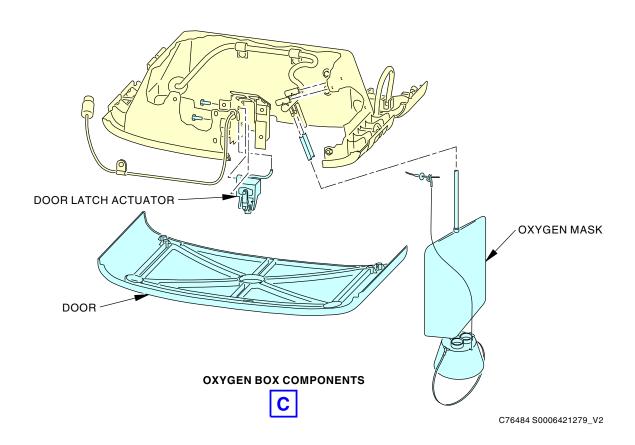
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Passenger Oxygen System Test Figure 501/35-21-00-990-801 (Sheet 2 of 2)

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TASK 35-21-00-820-801

3. Oxygen Box Door Latch Actuator and Hinge Adjustment

(Figure 502)

A. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-21-07 P/B 401	PASSENGER OXYGEN BOX - REMOVAL/INSTALLATION

B. Prepare for the Adjustment

SUBTASK 35-21-00-910-004

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

C. Oxygen Box Door Latch Adjustment

SUBTASK 35-21-00-010-001

(1) Remove the applicable oxygen box (PAGEBLOCK 35-21-07/401).

SUBTASK 35-21-00-820-001

- (2) Do this step to adjust the oxygen box door:
 - (a) Open the oxygen box door until it is perpendicular to the oxygen box.
 - (b) Loosen the screws on hinge attach points on the oxygen box door.
 - (c) Adjust the oxygen box door down to decrease the clearance between the door and panel..
 - (d) Do not allow the oxygen box door to infringe on the gap seal.NOTE: This will allow the ball pin to engage the latch properly.

SUBTASK 35-21-00-820-002

- (3) Do this step to adjust the latch actuator assembly:
 - (a) Loosen the screws on the latch actuator assembly.
 - (b) Adjust the latch actuator unit on the slotted holes in up direction.

NOTE: This will allow the actuator/latch assembly to capture the ball pin, close, and secure the oxygen box door.

D. Put the Airplane Back to Its Usual Condition

SUBTASK 35-21-00-410-001

(1) Install the applicable oxygen box (PAGEBLOCK 35-21-07/401).

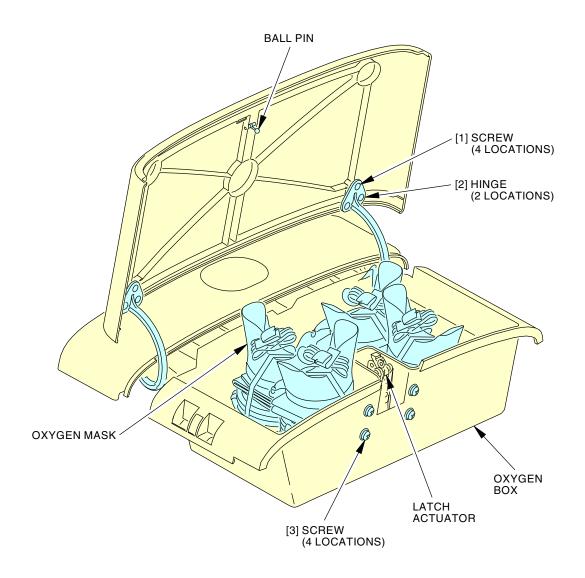
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PSU OXYGEN BOX

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Oxygen Box Door Latch Actuator and Hinge Adjustment Figure 502/35-21-00-990-802

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OXYGEN GENERATOR - MAINTENANCE PRACTICES

1. General

- A. This procedure contains scheduled maintenance task data.
- B. This procedure has includes these general maintenance tasks:
 - (1) Oxygen Generator Firing Mechanism Deactivation
 - (2) Oxygen Generator Firing Mechanism Activation
 - (3) Oxygen Generator Firing Mechanism Detailed Visual Inspection
 - (4) Oxygen Generator Removal
 - (5) Oxygen Generator Installation
 - (6) Oxygen Generator Check.

TASK 35-21-01-040-802

2. Oxygen Generator Firing Mechanism Deactivation

A. References

Reference	Title
35-21-11-040-801	Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator
	Firing Mechanism Deactivation (P/B 201)
35-21-12-040-801	Main Cabin Center Oxygen PSU Oxygen Generator Firing
	Mechanism Deactivation (P/B 201)
35-21-13-040-801	Main Cabin Outboard Oxygen PSU Oxygen Generator Firing
	Mechanism Deactivation (P/B 201)

B. Location Zones

Zone	Area	
200	Upper Half of Fuselage	

C. General

SUBTASK 35-21-01-040-001

(1) To deactivate a chemical oxygen generator within a Passenger Service Unit (PSU), select the appropriate task:

Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Firing Mechanism Deactivation, TASK 35-21-11-040-801

Main Cabin Center Oxygen PSU Oxygen Generator Firing Mechanism Deactivation, TASK 35-21-12-040-801

Main Cabin Outboard Oxygen PSU Oxygen Generator Firing Mechanism Deactivation, TASK 35-21-13-040-801



TASK 35-21-01-440-802

3. Oxygen Generator Firing Mechanism Activation

A. References

Reference	Title
35-21-11-440-801	Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator
	Firing Mechanism Activation (P/B 201)

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(Continued)

Reference	Title
35-21-12-440-801	Main Cabin Center Oxygen Generator Firing Mechanism Activation (P/B 201)
35-21-13-440-801	Main Cabin Outboard Oxygen PSU Oxygen Generator Firing Mechanism Activation (P/B 201)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. General

SUBTASK 35-21-01-440-001

(1) To activate a chemical oxygen generator within a Passenger Service Unit (PSU), do the appropriate task:

Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Firing Mechanism Activation, TASK 35-21-11-440-801

Main Cabin Center Oxygen Generator Firing Mechanism Activation, TASK 35-21-12-440-801 Main Cabin Outboard Oxygen PSU Oxygen Generator Firing Mechanism Activation, TASK 35-21-13-440-801

----- END OF TASK -----

TASK 35-21-01-210-802

4. Oxygen Generator Firing Mechanism Detailed Visual Inspection

A. References

Reference	Title
35-21-11-200-801	Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Firing Mechanism Detailed Visual Inspection (P/B 201)
35-21-12-200-801	Main Cabin Center Oxygen PSU Oxygen Generator Firing Mechanism Detailed Visual Inspection (P/B 201)
35-21-13-211-801	Main Cabin Outboard Oxygen PSU Oxygen Generator Firing Mechanism Detailed Visual Inspection (P/B 201)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. General

SUBTASK 35-21-01-211-001

(1) To inspect the firing mechanism of a chemical oxygen generator within a Passenger Service Unit (PSU), select the appropriate task:

Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Firing Mechanism Detailed Visual Inspection, TASK 35-21-11-200-801

Main Cabin Center Oxygen PSU Oxygen Generator Firing Mechanism Detailed Visual Inspection, TASK 35-21-12-200-801

Main Cabin Outboard Oxygen PSU Oxygen Generator Firing Mechanism Detailed Visual Inspection, TASK 35-21-13-211-801

----- END OF TASK -----

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TASK 35-21-01-000-801

5. Oxygen Generator Removal

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
35-21-11-000-801	Attendant /Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Removal (P/B 201)
35-21-12-000-801	Main Cabin Center Oxygen PSU Oxygen Generator Removal (P/B 201)
35-21-13-000-801	Main Cabin Outboard Oxygen PSU Oxygen Generator Removal (P/B 201)

B. General

SUBTASK 35-21-01-020-005

(1) To remove a chemical oxygen generator from within a Passenger Service Unit (PSU), select the appropriate task:

Attendant /Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Removal, TASK 35-21-11-000-801

Main Cabin Center Oxygen PSU Oxygen Generator Removal, TASK 35-21-12-000-801 Main Cabin Outboard Oxygen PSU Oxygen Generator Removal, TASK 35-21-13-000-801



TASK 35-21-01-400-801

6. Oxygen Generator Installation

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
35-21-11-400-801	Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Installation (P/B 201)
35-21-12-400-801	Main Cabin Center Oxygen PSU Oxygen Generator Installation (P/B 201)
35-21-13-400-801	Main Cabin Outboard Oxygen PSU Oxygen Generator Installation (P/B 201)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. General

SUBTASK 35-21-01-420-015

(1) To install a chemical oxygen generator within a Passenger Service Unit (PSU), select the appropriate task:

Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Installation, TASK 35-21-11-400-801

Main Cabin Center Oxygen PSU Oxygen Generator Installation, TASK 35-21-12-400-801

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Main Cabin Outboard Oxygen PSU Oxygen Generator Installation, TASK 35-21-13-400-801

 END	OF	TASK	
 LIND	OI.	IASK	

TASK 35-21-01-210-801

7. Oxygen Generator Check

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
35-21-11-200-802	Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Check (P/B 201)
35-21-12-200-802	Main Cabin Center Oxygen PSU Oxygen Generator Check (P/B 201)
35-21-13-200-801	Main Cabin Outboard Oxygen PSU Oxygen Generator Check (P/B 201)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. General

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SUBTASK 35-21-01-212-002

(1) To check the installation of a chemical oxygen generator within a Passenger Service Unit (PSU), select the appropriate task:

Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Check, TASK 35-21-11-200-802

Main Cabin Center Oxygen PSU Oxygen Generator Check, TASK 35-21-12-200-802 Main Cabin Outboard Oxygen PSU Oxygen Generator Check, TASK 35-21-13-200-801

----- END OF TASK -----



OXYGEN CYLINDER (CDS) - MAINTENANCE PRACTICE

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 and a release lanyard.. If the discharge indicator tape is damaged or the release lanyard is removed, the 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 35-21-02-040-801

2. Oxygen Cylinder (CDS) Deactivation

Figure 201

NOTE: This procedure is a scheduled maintenance task.

A. General

(1) This task includes the steps to deactivate the oxygen cylinder (CDS).

B. References

Reference	Title
25-21-07-000-801	Lowered Ceiling Panel Removal (P/B 401)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)

C. Tools/Equipment

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

Reference	Description
COM-14584	Safety Pin and Flag - Constant Dispensing System
	Part #: 4498016-000 Supplier: D1379

D. Location Zones

Zone	Area
200	Upper Half of Fuselage

E. Prepare to Deactivate the Oxygen Cylinder

SUBTASK 35-21-02-910-001

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

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SUBTASK 35-21-02-860-001

(2) Open these circuit breakers and install safety tags:

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	3	C35403	L PAX OXY
Α	4	C35405	C PAX OXY
Α	5	C35404	R PAX OXY
Н	3	C35606	CHAN A OXY DEPLOY
Н	4	C35607	CHAN B OXY DEPLOY

SUBTASK 35-21-02-010-006

(3) Remove the lavatory ceiling panel, (Lowered Ceiling Panel Removal, TASK 25-21-07-000-801).

F. Deactivate the Oxygen Cylinder

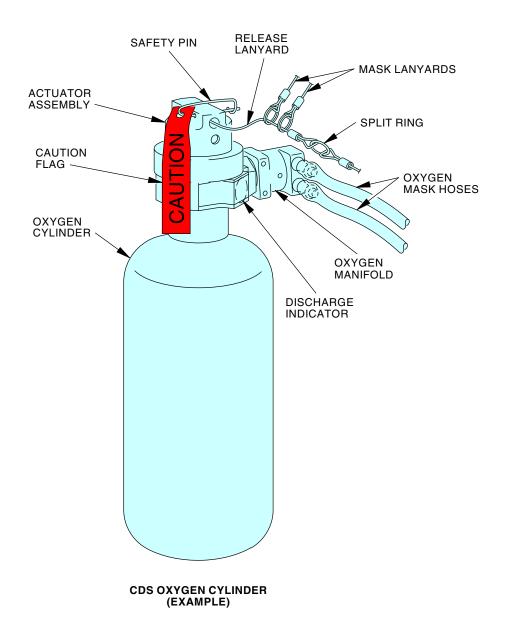
SUBTASK 35-21-02-480-001

(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.

——— END OF TASK ———





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CDS Oxygen Cylinder Activation/Deactivation Figure 201/35-21-02-990-801

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TASK 35-21-02-440-801

3. Oxygen Cylinder (CDS) Activation

Figure 201

NOTE: This procedure is a scheduled maintenance task.

A. General

(1) This task includes the steps to activate the oxygen cylinder (CDS).

B. References

Reference	Title
25-21-07-400-801	Lowered Ceiling Panel Installation (P/B 401)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-21-02-000-801	Oxygen Cylinder (CDS) Removal (P/B 401)
35-21-02-400-801	Oxygen Cylinder (CDS) Installation (P/B 401)

C. Tools/Equipment

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

Reference	Description
COM-14584	Safety Pin and Flag - Constant Dispensing System
	Part #: 4498016-000 Supplier: D1379

D. Location Zones

Zone	Area	
200	Upper Half of Fuselage	

E. Prepare to Activate the Oxygen Cylinder

SUBTASK 35-21-02-910-002

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

SUBTASK 35-21-02-210-001

- (2) 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: 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 35-21-02-900-001

- (3) If the discharge indicator is damaged or the release lanyard is disengaged, replace the applicable oxygen cylinder.
 - (a) Do these steps to replace the oxygen cylinder.

These are the tasks:

(Oxygen Cylinder (CDS) Removal, TASK 35-21-02-000-801) (Oxygen Cylinder (CDS) Installation, TASK 35-21-02-400-801).

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F. Activate the Oxygen Cylinder

SUBTASK 35-21-02-080-001



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.

(1) 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 35-21-02-410-008

(2) Install the lavatory ceiling, (Lowered Ceiling Panel Installation, TASK 25-21-07-400-801).

SUBTASK 35-21-02-850-001

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

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	3	C35403	L PAX OXY
Α	4	C35405	C PAX OXY
Α	5	C35404	R PAX OXY
Н	3	C35606	CHAN A OXY DEPLOY
Н	4	C35607	CHAN B OXY DEPLOY

——— END OF TASK —



OXYGEN CYLINDER (CDS) - REMOVAL/INSTALLATION

1. General

- A. This procedure contains scheduled maintenance task data.
- B. This procedure contains these tasks:
 - (1) Oxygen Cylinder (CDS) Removal
 - (2) 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, 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 35-21-02-000-801

2. Oxygen Cylinder (CDS) Removal

Figure 401

NOTE: This procedure is a scheduled maintenance task.

A. General

(1) This task includes the steps to remove the oxygen cylinder (CDS)

B. References

Reference	Title
25-21-07-000-801	Lowered Ceiling Panel Removal (P/B 401)
35-21-02-040-801	Oxygen Cylinder (CDS) Deactivation (P/B 201)

C. Location Zones

Zone	Area		
200	Upper Half of Fuselage		

D. Prepare for the Oxygen Cylinder (CDS) Removal

SUBTASK 35-21-02-010-001

(1) Remove the ceiling panel to get access to the oxygen box [1] (Lowered Ceiling Panel Removal, TASK 25-21-07-000-801).

SUBTASK 35-21-02-010-002

- (2) Do these steps to open the oxygen box [1]:
 - (a) Put a tool into the latch access hole.
 - (b) Push up on the tool to operate the door latch.
 - (c) Open the oxygen box door.
 - (d) Let the oxygen masks fall.
 - (e) Do not pull on the oxygen masks.

NOTE: If you pull on the oxygen masks, the oxygen cylinder will release oxygen.

(f) Put the masks and streamer out of the way during the maintenance.

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SUBTASK 35-21-02-210-002

- (3) Do these checks at the actuator assembly [7] on the oxygen cylinder [2], before you deactivate the oxygen cylinder.
 - (a) Make sure that the discharge indicator tape has no damage or holes.
 - NOTE: 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 the oxygen cylinder released oxygen to flow from the masks.

SUBTASK 35-21-02-040-001

(4) If the cylinder has not released oxygen, do this task: Oxygen Cylinder (CDS) Deactivation, TASK 35-21-02-040-801.

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.

E. Remove the Oxygen Cylinder (CDS)

SUBTASK 35-21-02-020-001

(1) Disconnect the oxygen mask hoses [12] from the oxygen manifold [13].

SUBTASK 35-21-02-020-002

(2) Disconnect the split ring [11] from the lanyard release [9].

SUBTASK 35-21-02-010-003

(3) Remove the mask lanyards [10] from the lanyard release [9].

SUBTASK 35-21-02-010-004

- (4) Do these steps to remove the oxygen cylinder [2]:
 - (a) Make sure the safety pin [8] is installed in the actuator assembly [7].
 - (b) Remove the screws [4] and washers [5] that attach the oxygen cylinder [2] and strap covers [6] to the oxygen box [1].
 - 1) Keep the fasteners for the installation.
 - (c) Remove the oxygen cylinder [2] from the strap covers [6].

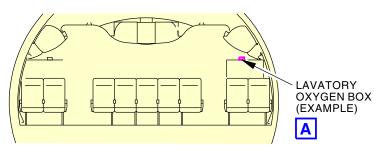
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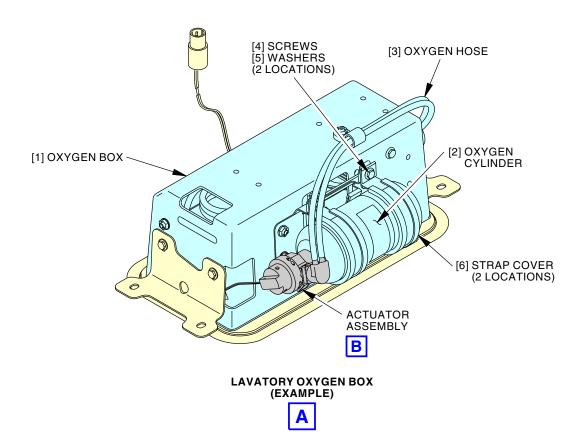
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PASSENGER COMPARTMENT (EXAMPLE)



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CDS Oxygen Cylinder Installation Figure 401/35-21-02-990-802 (Sheet 1 of 2)

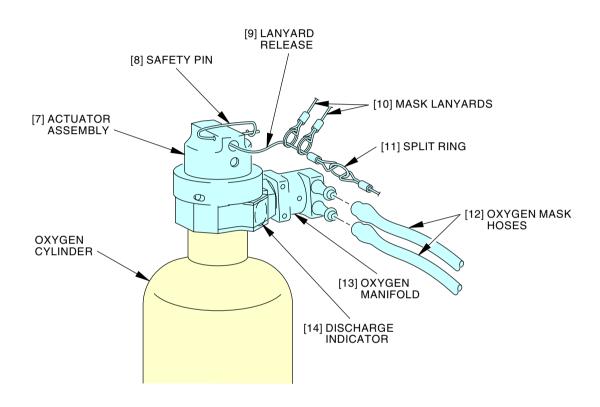
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ACTUATOR ASSEMBLY (EXAMPLE)



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CDS Oxygen Cylinder Installation Figure 401/35-21-02-990-802 (Sheet 2 of 2)

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TASK 35-21-02-400-801

3. Oxygen Cylinder (CDS) Installation

Figure 401

NOTE: This procedure is a scheduled maintenance task.

A. General

(1) This task includes the steps to install the oxygen cylinder (CDS).

B. References

Reference	Title
25-21-07-400-801	Lowered Ceiling Panel Installation (P/B 401)
35-21-02-440-801	Oxygen Cylinder (CDS) Activation (P/B 201)
35-21-11-400-802	Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Mask Installation (P/B 201)

C. Location Zones

Zone	Area	
200	Upper Half of Fuselage	

D. Prepare for the Oxygen Cylinder Installation

SUBTASK 35-21-02-210-003

- (1) Do these checks at the actuator assembly [7] on the oxygen cylinder [2].
 - (a) Make sure that the discharge indicator tape has no damage or holes.
 - NOTE: 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 [7].
 - 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 [8] is installed in the actuator assembly [7].

SUBTASK 35-21-02-020-003

(2) If the oxygen cylinder [2] is not serviceable, discard it.

SUBTASK 35-21-02-410-003

(3) If the oxygen cylinder [2] is serviceable, do the subsequent procedure.

E. Oxygen Cylinder (CDS) Installation

SUBTASK 35-21-02-410-004

- (1) Put the oxygen cylinder [2] in its position in the strap covers [6] that are attached to the oxygen box [1].
 - NOTE: The part number placard and oxygen manifold will be set in the direction of the oxygen box door.

SUBTASK 35-21-02-420-001

(2) Install the screws [4] and washers [5] that attach the strap covers [6] to the oxygen box [1].

SUBTASK 35-21-02-420-002

(3) Connect the lanyard release [9] to the mask lanyards [10] and split ring [11] as shown in Figure 401.

SUBTASK 35-21-02-420-003

(4) Connect the oxygen mask hoses [12] to the oxygen manifold [13] as shown in Figure 401.

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(a) Makes sure that the oxygen mask hoses are connected tightly to the manifold.

SUBTASK 35-21-02-410-006

(5) Do this task to install the masks and close the oxygen box door, Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Mask Installation, TASK 35-21-11-400-802

F. Put the Airplane Back to Its Usual Condition

SUBTASK 35-21-02-440-001

(1) Do this task:Oxygen Cylinder (CDS) Activation, TASK 35-21-02-440-801.

SUBTASK 35-21-02-410-007

(2) Install the lavatory ceiling panel (Lowered Ceiling Panel Installation, TASK 25-21-07-400-801).

——— END OF TASK ———

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OXYGEN CYLINDER (CDS) - INSPECTION/CHECK

1. General

- A. This procedure contains scheduled maintenance task data.
- B. This procedure contains this task:
 - (1) Visual Inspection of the Oxygen Cylinder (CDS)
- 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, 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 35-21-02-210-801

2. Visual Inspection of the Oxygen Cylinder (CDS)

Figure 35-21-02-990-801

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
25-21-07-000-801	Lowered Ceiling Panel Removal (P/B 401)
25-21-07-400-801	Lowered Ceiling Panel Installation (P/B 401)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-21-02-000-801	Oxygen Cylinder (CDS) Removal (P/B 401)
35-21-02-400-801	Oxygen Cylinder (CDS) Installation (P/B 401)
35-21-02-440-801	Oxygen Cylinder (CDS) Activation (P/B 201)
35-21-02-990-801	Figure: CDS Oxygen Cylinder Activation/Deactivation (P/B 201)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Prepare to Inspect the Oxygen Cylinder

SUBTASK 35-21-02-910-003

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

SUBTASK 35-21-02-010-005

(2) Remove the lavatory ceiling panel to get access to the oxygen cylinder(Lowered Ceiling Panel Removal, TASK 25-21-07-000-801).

D. Inspect the Oxygen Cylinder

SUBTASK 35-21-02-210-004

- (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.

<u>NOTE</u>: 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 35-21-02-900-002

- (2) If the discharge indicator is damaged or the lanyard assembly is disengaged, replace the applicable oxygen cylinder.
 - (a) Do these steps to replace the oxygen cylinder.

These are the tasks:

(Oxygen Cylinder (CDS) Removal, TASK 35-21-02-000-801)

(Oxygen Cylinder (CDS) Installation, TASK 35-21-02-400-801).

E. Inspect the Oxygen Cylinder Safety Pin

SUBTASK 35-21-02-440-002

- (1) Make sure that the safety pin is removed from the oxygen cylinder, (Oxygen Cylinder (CDS) Activation, TASK 35-21-02-440-801).
- F. Close the Access to the Oxygen Cylinder.

SUBTASK 35-21-02-410-005

(1) Install the lavatory ceiling panel (Lowered Ceiling Panel Installation, TASK 25-21-07-400-801).

——— END OF TASK ———



PASSENGER OXYGEN MASK - MAINTENANCE PRACTICES

1. General

- A. This procedure contains scheduled maintenance task data.
- B. This procedure has these tasks:
 - (1) Passenger Oxygen Mask Removal
 - (2) Passenger Oxygen Mask Installation
 - (3) Passenger Oxygen Mask Packing
 - (4) Passenger Oxygen Mask Inspection
 - (5) Passenger Oxygen Mask Cleaning.

TASK 35-21-05-000-801

2. Passenger Oxygen Mask Removal

A. References

Reference	Title
35-21-11-000-802	Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Mask Removal (P/B 201)
35-21-12-000-802	Main Cabin Center Oxygen PSU Oxygen Mask Removal (P/B 201)
35-21-13-000-802	Main Cabin Outboard Oxygen PSU Oxygen Mask Removal (P/B 201)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. General

SUBTASK 35-21-05-020-012

(1) To remove a passenger oxygen mask from within a Passenger Service Unit (PSU), select the appropriate task:

Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Mask Removal, TASK 35-21-11-000-802 Main Cabin Center Oxygen PSU Oxygen Mask Removal, TASK 35-21-12-000-802 Main Cabin Outboard Oxygen PSU Oxygen Mask Removal, TASK 35-21-13-000-802

----- END OF TASK -----

TASK 35-21-05-410-801

3. Passenger Oxygen Mask Installation

A. References

Reference	Title
35-21-11-400-802	Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Mask Installation (P/B 201)
35-21-12-400-802	Main Cabin Center Oxygen PSU Oxygen Mask Installation (P/B 201)
35-21-13-400-802	Main Cabin Outboard Oxygen PSU Oxygen Mask Installation (P/B 201)

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B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. General

SUBTASK 35-21-05-420-015

(1) To install a passenger oxygen mask within a Passenger Service Unit (PSU), select the appropriate task:

Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Mask Installation, TASK 35-21-11-400-802

Main Cabin Outboard Oxygen PSU Oxygen Mask Installation, TASK 35-21-13-400-802 Main Cabin Center Oxygen PSU Oxygen Mask Installation, TASK 35-21-12-400-802



TASK 35-21-05-530-801

4. Passenger Oxygen Mask Packing

A. References

Reference	Title
35-21-11-400-803	Attendant /Crew Rest/ Lavatory Oxygen PSU Oxygen Mask Packing (P/B 201)
35-21-12-400-803	Main Cabin Center Oxygen PSU Oxygen Mask Packing (P/B 201)
35-21-13-530-801	Main Cabin Outboard Oxygen PSU Oxygen Mask Packing (P/B 201)

B. Location Zones

Zone	Area	
200	Upper Half of Fuselage	

C. General

SUBTASK 35-21-05-420-016

(1) To pack a passenger oxygen mask into a Passenger Service Unit (PSU), select the appropriate task:

Attendant /Crew Rest/ Lavatory Oxygen PSU Oxygen Mask Packing, TASK 35-21-11-400-803 Main Cabin Center Oxygen PSU Oxygen Mask Packing, TASK 35-21-12-400-803 Main Cabin Outboard Oxygen PSU Oxygen Mask Packing, TASK 35-21-13-530-801



TASK 35-21-05-210-802

5. Passenger Oxygen Mask Inspection

A. References

Reference	Title
35-21-11-200-803	Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Mask Inspection (P/B 201)
35-21-12-200-803	Main Cabin Center Oxygen PSU Oxygen Mask Inspection (P/B 201)

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(Continued)

Reference	Title
35-21-13-200-802	Main Cabin Outboard Oxygen PSU Oxygen Mask Inspection
	(P/B 201)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. General

SUBTASK 35-21-05-210-047

(1) To inspect a passenger oxygen mask from within a Passenger Service Unit (PSU), select the appropriate task:

Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Mask Inspection, TASK 35-21-11-200-803

Main Cabin Center Oxygen PSU Oxygen Mask Inspection, TASK 35-21-12-200-803 Main Cabin Outboard Oxygen PSU Oxygen Mask Inspection, TASK 35-21-13-200-802



TASK 35-21-05-100-801

6. Passenger Oxygen Mask Cleaning

A. References

Reference	Title
35-21-11-100-801	Attendant/Crew Rest/ Lavatory Oxygen PSU - Oxygen Mask Cleaning (P/B 201)
35-21-12-100-801	Main Cabin Center Oxygen PSU Oxygen Mask Cleaning (P/B 201)
35-21-13-100-801	Main Cabin Outboard Oxygen PSU Oxygen Mask Cleaning (P/B 201)

B. Location Zones

Zone	Area			
200	Upper Half of Fuselage			

C. General

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SUBTASK 35-21-05-100-005

(1) To clean a passenger oxygen mask located within a Passenger Service Unit (PSU), select the appropriate task:

Attendant/Crew Rest/ Lavatory Oxygen PSU - Oxygen Mask Cleaning, TASK 35-21-11-100-801

Main Cabin Center Oxygen PSU Oxygen Mask Cleaning, TASK 35-21-12-100-801 Main Cabin Outboard Oxygen PSU Oxygen Mask Cleaning, TASK 35-21-13-100-801

----- END OF TASK -----



OXYGEN BOX DOOR LATCH ACTUATOR - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
 - (1) Oxygen Box Door Latch Actuator Removal
 - (2) Oxygen Box Door Latch Actuator Installation
- B. The door latch actuator is a component part of the oxygen box. There are oxygen boxes in most of the passenger service units and in all attendant and lavatory service units. The removal of the door latch actuator is similar for each oxygen box, although the oxygen boxes are constructed differently.

TASK 35-21-06-000-801

2. Oxygen Box Door Latch Actuator Removal

A. References

Reference	Title
35-21-11-000-804	Attendant/Crew Rest/ Lavatory Oxygen PSU Mask Box Door Latch Removal (P/B 201)
35-21-12-000-804	Main Cabin Center Oxygen PSU Mask Box Door Latch Actuator Removal (P/B 201)
35-21-13-000-804	Main Cabin Outboard Oxygen PSU Mask Box Door Latch Actuator Removal (P/B 201)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. General

SUBTASK 35-21-06-020-010

(1) To remove the Mask Box Door Latch Actuator from a Passenger Service Unit (PSU), select the appropriate task:

Attendant/Crew Rest/ Lavatory Oxygen PSU Mask Box Door Latch Removal, TASK 35-21-11-000-804

Main Cabin Outboard Oxygen PSU Mask Box Door Latch Actuator Removal, TASK 35-21-13-000-804

Main Cabin Center Oxygen PSU Mask Box Door Latch Actuator Removal, TASK 35-21-12-000-804



TASK 35-21-06-400-801

3. Oxygen Box Door Latch Actuator Installation

A. References

Reference	Title	
35-21-11-400-805	Attendant/Crew Rest/ Lavatory Oxygen PSU Mask Box Door Latch Installation (P/B 201)	
35-21-12-400-805	Main Cabin Center Oxygen PSU Mask Box Door Latch Actuator Installation (P/B 201)	
35-21-13-400-804	Main Cabin Outboard Oxygen PSU Mask Box Door Latch Actuator Installation (P/B 201)	

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B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. General

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SUBTASK 35-21-06-420-007

(1) To install the Mask Box Door Latch Actuator into a Passenger Service Unit (PSU), select the appropriate task:

Attendant/Crew Rest/ Lavatory Oxygen PSU Mask Box Door Latch Installation, TASK 35-21-11-400-805

Main Cabin Outboard Oxygen PSU Mask Box Door Latch Actuator Installation, TASK 35-21-13-400-804

Main Cabin Center Oxygen PSU Mask Box Door Latch Actuator Installation, TASK 35-21-12-400-805





PASSENGER OXYGEN BOX - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
 - (1) Center and Outboard Passenger Service Unit Oxygen Box Removal
 - (2) Center and Outboard Passenger Service Unit Oxygen Box Installation
 - (3) Overdoor Panel, Lowered Ceiling and Lavatory Oxygen Box Removal
 - (4) Overdoor Panel, Lowered Ceiling and Lavatory Oxygen Box Installation
 - (5) Flight Crew Rest Oxygen Box Removal
 - (6) Flight Crew Rest Oxygen Box Installation.

TASK 35-21-07-000-801

2. Center and Outboard Passenger Service Unit Oxygen Box Removal

A. References

Reference	Title
35-21-12-000-803	Main Cabin Center Oxygen PSU Removal (P/B 201)
35-21-13-000-803	Main Cabin Outboard Oxygen PSU Removal (P/B 201)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. General

SUBTASK 35-21-07-000-001

(1) To remove an Oxygen Passenger Service Unit (PSU), select the appropriate task: Main Cabin Center Oxygen PSU Removal, TASK 35-21-12-000-803

Main Cabin Outboard Oxygen PSU Removal, TASK 35-21-13-000-803



TASK 35-21-07-400-801

3. Center and Outboard Passenger Service Unit Oxygen Box Installation

A. References

Reference	Title
35-21-12-400-804	Main Cabin Center Oxygen PSU Installation (P/B 201)
35-21-13-400-803	Main Cabin Outboard Oxygen PSU Installation (P/B 201)

B. Location Zones

Zone	Area	
200	Upper Half of Fuselage	

C. General

SUBTASK 35-21-07-400-001

(1) To install an Oxygen Passenger Service Unit (PSU), select the appropriate task: Main Cabin Center Oxygen PSU Installation, TASK 35-21-12-400-804 Main Cabin Outboard Oxygen PSU Installation, TASK 35-21-13-400-803

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TASK 35-21-07-000-802

4. Overdoor Panel, Lowered Ceiling and Lavatory Oxygen Box Removal

A. References

Reference	Title
35-21-11-000-803	Attendant/Crew Rest/ Lavatory Oxygen PSU Removal (P/B 201)

B. Location Zones

Zone	Area	
200	Upper Half of Fuselage	

C. General

SUBTASK 35-21-07-020-022

(1) To remove a passenger oxygen mask from within a Passenger Service Unit (PSU), do the task: Attendant/Crew Rest/ Lavatory Oxygen PSU Removal, TASK 35-21-11-000-803

——— END OF TASK ———

TASK 35-21-07-400-802

5. Overdoor Panel, Lowered Ceiling and Lavatory Oxygen Box Installation

A. References

Reference	Title
35-21-11-400-804	Attendant/Crew Rest/ Lavatory Oxygen PSU Installation
	(P/B 201)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. General

SUBTASK 35-21-07-420-018

(1) To install an Oxygen Passenger Service Unit (PSU), do the task: Attendant/Crew Rest/ Lavatory Oxygen PSU Installation, TASK 35-21-11-400-804

----- END OF TASK -----

TASK 35-21-07-000-804

6. Flight Crew Rest Oxygen Box Removal

A. References

Reference	Title
35-21-11-000-802	Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Mask
	Removal (P/B 201)

B. Location Zones

Zone	Area
221	Passenger Compartment, Left - Section 41

C. General

SUBTASK 35-21-07-420-015

(1) To remove an Oxygen Passenger Service Unit (PSU) from the Main Deck Flight Crew rest, do the task:

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Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Mask Removal, TASK 35-21-11-000-802

END	OF:	TACK	
 ENU	OF	TASK	

TASK 35-21-07-400-804

7. Flight Crew Rest Oxygen Box Installation

A. References

Reference	Title
35-21-11-400-804	Attendant/Crew Rest/ Lavatory Oxygen PSU Installation (P/B 201)

B. Location Zones

Zone	Area
221	Passenger Compartment, Left - Section 41

C. General

SUBTASK 35-21-07-420-014

(1) To install an Oxygen Passenger Service Unit (PSU) into a Main Deck Flight Crew Rest, do the task:

Attendant/Crew Rest/ Lavatory Oxygen PSU Installation, TASK 35-21-11-400-804

----- END OF TASK -----



ATTENDANT /CREW REST/ LAVATORY OXYGEN PSU - MAINTENANCE PRACTICES

1. General

A. This procedure describes the maintenance tasks for the following Oxygen Passenger Service Units (PSUs):

ARO ALL; AIRPLANES WITH CHEMICAL PASSENGER OXYGEN SYSTEM

- (1) Attendant Oxygen PSUs
- (2) Galley Oxygen PSUs

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- (3) Flight Crew Rest Oxygen PSUs
- B. The following Attendant / Lavatory Oxygen PSU maintenance tasks are provided:
 - (1) Oxygen Generator Firing Mechanism Deactivation
 - (2) Oxygen Generator Firing Mechanism Activation
 - (3) Oxygen Generator Firing Mechanism Detailed Visual Inspection
 - (4) Oxygen Generator Removal
 - (5) Oxygen Generator Installation
 - (6) Oxygen Generator Check
 - (7) Oxygen Mask Removal
 - (8) Oxygen Mask Installation
 - (9) Oxygen Mask Inspection
 - (10) Oxygen Mask Cleaning
 - (11) Oxygen Mask Packing
 - (12) Oxygen PSU Removal
 - (13) Oxygen PSU Installation
 - (14) Oxygen PSU Mask Box Door Latch Removal
 - (15) Oxygen PSU Mask Box Door Latch Installation
- C. Do not conduct any maintenance operations on an Oxygen PSU without first deactivating each oxygen generators firing mechanism.

TASK 35-21-11-040-801

2. Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Firing Mechanism Deactivation

A. General

- (1) This procedure deactivates the chemical oxygen generator firing mechanism before maintenance. To deactivate an oxygen cylinder (CDS) actuator assembly, refer to Oxygen Cylinder (CDS) Subject 35-21-02.
- (2) This task is for the following Attendant / Lavatory oxygen passenger service units (PSUs) locations:
 - (a) Attendant seating areas
 - (b) Flight Crew Rest
 - (c) Galleys

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- (3) Do not conduct any maintenance operations on an Oxygen PSU without first deactivating each oxygen generators firing mechanism.
- (4) Each oxygen passenger service unit (PSU) has at least one chemical oxygen generator. The generator, when ignited, supplies oxygen to each of the connected masks. Each generator has a temperature witness strip around the units body to show if the oxygen generator has previously expended or fired. The generator will start the oxygen flow when the mask is pulled downward, provided that the safety pin is removed from the firing mechanism.
- (5) All replacement chemical oxygen generators are supplied with a safety pin. The safety pin is installed in the firing mechanism of the oxygen generator. The generator cannot ignite (start oxygen flow) when the safety pin is correctly installed. The generator is safe to handle when the safety pin is installed.
- (6) In addition to the safety pin, a secondary safety device is used for the transport of spare oxygen generators This secondary safety device must be removed from the firing mechanisms release pin hole, before the release pin can be installed.
- (7) The safety pin has to be installed in the oxygen generator firing mechanism (oxygen generator deactivation) whenever the oxygen generator or the oxygen passenger service unit is to be removed from the airplane, or when any other oxygen passenger service unit (PSU) maintenance is to be performed.
- (8) Once either the oxygen generator or the oxygen passenger service unit (PSU) is installed, and other maintenance to the PSU is complete, the safety pin is to be removed from the generator firing mechanism (oxygen generator activation).

B. References

Reference	Title
25-21-07-000-801	Lowered Ceiling Panel Removal (P/B 401)
25-21-08-000-801	Overdoor Panel Opening/Removal (P/B 201)
35-21-12-000-801	Main Cabin Center Oxygen PSU Oxygen Generator Removal (P/B 201)
35-21-12-400-801	Main Cabin Center Oxygen PSU Oxygen Generator Installation (P/B 201)
35-21-13-000-801	Main Cabin Outboard Oxygen PSU Oxygen Generator Removal (P/B 201)
35-21-13-400-801	Main Cabin Outboard Oxygen PSU Oxygen Generator Installation (P/B 201)

C. Tools/Equipment

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

Reference	Description	
COM-752	Safety Pin and Flag - Chemical Oxygen Generator	
	Part #: E71401-00 Supplier: D1379 Opt Part #: E71401 Supplier: D1379	
COM-1935	Pliers - Firing Pin Retraction	
	Part #: C35004-1 Supplier: 81205 Part #: E71516-00 Supplier: D1379	

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Reference	Description
SPL-1937	Equipment - Firing Pin Retraction, BE Aerospace and AVOX oxygen
	generators
	Part #: C35003-10 Supplier: 81205
	Part #: C35004-1 Supplier: 81205
	Opt Part #: A35001-13 Supplier: 81205

D. Location Zones

Zone	Area
200	Upper Half of Fuselage

E. Preparation

NOTE: Reference the figures:

Attendant / Lavatory Oxygen PSU Location/Figure 202

Attendant / Lavatory Oxygen PSU Generator Fired Inspection/Figure 203

SUBTASK 35-21-11-800-002

- (1) Get access to the appropriate Attendant / Lavatory Oxygen Passenger Service Units (PSUs) as follows:
 - (a) Attendant / Lavatory Oxygen PSUs can be found in the following locations:
 - 1) Attendant seating locations
 - 2) Galleys

SUBTASK 35-21-11-865-001

(2) Open these circuit breakers and install safety tags:

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	3	C35403	L PAX OXY
Α	4	C35405	C PAX OXY
Α	5	C35404	R PAX OXY
Н	3	C35606	CHAN A OXY DEPLOY
Н	4	C35607	CHAN B OXY DEPLOY

SUBTASK 35-21-11-010-001

- (3) When maintenance access to an Attendant / Lavatory Oxygen PSU is required:
 - (a) For Attendant / Lavatory PSUs located in the cross-aisle and lavatory ceilings, lower the access panel adjacent to the PSU (Lowered Ceiling Panel Removal, TASK 25-21-07-000-801).
 - (b) For Attendant / Lavatory PSUs located in the galley and overdoor ceilings, lower the access panel containing the PSU (Overdoor Panel Opening/Removal, TASK 25-21-08-000-801).

SUBTASK 35-21-11-210-001

- (4) Examine the oxygen generator [2] to determine if it has been previously fired.
 - (a) Any of the following conditions indicate that the oxygen generator has been fired (expended):
 - 1) The heat sensitive paint found on the generator exterior has turned black, and/or,
 - 2) The release pin is no longer engaged with the firing pin, and/or,

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3) The firing pin has retracted into the firing mechanism so that the release pin hole is no longer visible on the firing pin.



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 INJURY OR DEATH TO PERSONS AND DAMAGE TO EQUIPMENT.

(5) If the oxygen generator has been fired (expended), process the expended generator as appropriate, and replace the oxygen generator with new.

NOTE: Deactivation of a fired (expended) generator is neither possible, nor necessary. Once the expended generator has cooled, it can be safely handled and processed.

(a) To replace the fired (expended) generator, select the appropriate task:

Attendant /Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Removal, TASK 35-21-11-000-801

Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Installation, TASK 35-21-11-400-801

Main Cabin Center Oxygen PSU Oxygen Generator Removal, TASK 35-21-12-000-801

Main Cabin Center Oxygen PSU Oxygen Generator Installation, TASK 35-21-12-400-801

Main Cabin Outboard Oxygen PSU Oxygen Generator Removal, TASK 35-21-13-000-801

Main Cabin Outboard Oxygen PSU Oxygen Generator Installation, TASK 35-21-13-400-801

F. Procedure

NOTE: Reference the figure:

Attendant / Lavatory Oxygen PSU Generator Firing Mechanism Activation / Deactivation/Figure 204

SUBTASK 35-21-11-040-001

- (1) To deactivate the chemical oxygen generator [2], do the steps that follow:
 - (a) Put the firing pin retraction pliers and safety pin, SPL-1937 (for B/E Aerospace and AVOX Systems oxygen generator) or firing pin retraction pliers, COM-1935 (for Drager oxygen generator) between the release pin and the firing pin.
 - (b) Put the firing pin retraction pliers, COM-1935 between the release pin and the firing pin.
 - (c) Using the pliers, carefully extract the firing pin from the generator firing mechanism, until the safety pin hole becomes visible.

NOTE: The safety pin hole is the smaller of the two holes located on the firing pin.

NOTE: Do not release the firing pin retraction pliers.

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MAKE SURE THAT THE RELEASE PIN IS INSTALLED IN THE LARGER OF THE TWO HOLES, AND THAT THE SAFETY PIN IS INSTALLED IN THE SMALLER OF THE TWO HOLES LOCATED IN THE FIRING PIN. FAILURE TO INSTALL THE PINS COULD PREVENT THE OXYGEN GENERATOR FROM FIRING WHEN THE OXYGEN MASKS ARE ACTUATED.

- (d) Install the safety pin and flag, COM-752 or equivalent into the safety pin hole located in the firing pin.
 - NOTE: The safety pin hole is the smaller of the two holes located on the firing pin.
- (e) Carefully release the firing pin retraction pliers until the safety pin rests against the firing mechanism housing.
- (f) Remove the firing pin retraction pliers.

SUBTASK 35-21-11-800-003

(2) It is now safe to continue maintenance on the oxygen PSU.



TASK 35-21-11-440-801

3. Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Firing Mechanism Activation

A. General

- (1) This procedure activates the chemical oxygen generator firing mechanism after maintenance. To activate an oxygen cylinder (CDS) actuator assembly, refer to Oxygen Cylinder (CDS) Subject 35-21-02.
- (2) This task is for the following Attendant / Lavatory oxygen passenger service units (PSUs) locations:
 - (a) Attendant seating areas
 - (b) Flight Crew Rest
 - (c) Galleys
- (3) Each oxygen passenger service unit (PSU) has at least one chemical oxygen generator. The generator, when ignited, supplies oxygen to each of the connected masks. Each generator has a temperature witness strip around the units body to show if the oxygen generator has previously ignited (oxygen flow started) or not. The generator will start the oxygen flow when the mask is pulled downward, provided that the safety pin is removed from the firing mechanism.
- (4) All replacement chemical oxygen generators are supplied with a safety pin. The safety pin is installed in the firing mechanism of the oxygen generator. The generator cannot ignite (start oxygen flow) when the safety pin is correctly installed. The generator is safe to handle when the safety pin is installed.
- (5) In addition to the safety pin, a secondary safety device is used for the transport of spare oxygen generators This secondary safety device must be removed from the firing mechanisms release pin hole, before the release pin can be installed.
- (6) The safety pin has to be installed in the oxygen generator firing mechanism (oxygen generator deactivation) whenever the oxygen generator or the oxygen passenger service unit is to be removed from the airplane, or when any other oxygen passenger service unit (PSU) maintenance is to be performed.

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(7) Once either the oxygen generator or the oxygen passenger service unit (PSU) is installed, and other maintenance to the PSU is complete, the safety pin is to be removed from the generator firing mechanism (oxygen generator activation).

B. References

Reference	Title
25-21-07-000-801	Lowered Ceiling Panel Removal (P/B 401)
25-21-08-000-801	Overdoor Panel Opening/Removal (P/B 201)
35-21-12-000-801	Main Cabin Center Oxygen PSU Oxygen Generator Removal (P/B 201)
35-21-12-200-801	Main Cabin Center Oxygen PSU Oxygen Generator Firing Mechanism Detailed Visual Inspection (P/B 201)
35-21-12-400-801	Main Cabin Center Oxygen PSU Oxygen Generator Installation (P/B 201)
35-21-13-000-801	Main Cabin Outboard Oxygen PSU Oxygen Generator Removal (P/B 201)
35-21-13-211-801	Main Cabin Outboard Oxygen PSU Oxygen Generator Firing Mechanism Detailed Visual Inspection (P/B 201)
35-21-13-400-801	Main Cabin Outboard Oxygen PSU Oxygen Generator Installation (P/B 201)

C. Tools/Equipment

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

Reference	Description
COM-1935	Pliers - Firing Pin Retraction
	Part #: C35004-1 Supplier: 81205 Part #: E71516-00 Supplier: D1379
SPL-1937	Equipment - Firing Pin Retraction, BE Aerospace and AVOX oxygen generators
	Part #: C35003-10 Supplier: 81205 Part #: C35004-1 Supplier: 81205 Opt Part #: A35001-13 Supplier: 81205

D. Location Zones

Zone	Area	
200	Upper Half of Fuselage	

E. Preparation

NOTE: Reference the figures:

Attendant / Lavatory Oxygen PSU Location/Figure 202

Attendant / Lavatory Oxygen PSU Generator Fired Inspection/Figure 203

SUBTASK 35-21-11-800-005

- (1) Get access to the appropriate Attendant / Lavatory Oxygen Passenger Service Units (PSUs) as follows:
 - (a) Attendant / Lavatory Oxygen PSUs can be found in the following locations:
 - 1) Attendant seating locations
 - 2) Galleys

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SUBTASK 35-21-11-865-002

(2) Open these circuit breakers and install safety tags:

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	3	C35403	L PAX OXY
Α	4	C35405	C PAX OXY
Α	5	C35404	R PAX OXY
Н	3	C35606	CHAN A OXY DEPLOY
Н	4	C35607	CHAN B OXY DEPLOY

SUBTASK 35-21-11-010-002

- (3) When maintenance access to an Attendant / Lavatory Oxygen PSU is required:
 - (a) For Attendant / Lavatory PSUs located in the cross-aisle and lavatory ceilings, lower the access panel adjacent to the PSU (Lowered Ceiling Panel Removal, TASK 25-21-07-000-801).
 - (b) For Attendant / Lavatory PSUs located in the galley and overdoor ceilings, lower the access panel containing the PSU (Overdoor Panel Opening/Removal, TASK 25-21-08-000-801).

SUBTASK 35-21-11-210-002

- (4) Examine the oxygen generator [2] to determine if it has been previously fired.
 - (a) Any of the following conditions indicate that the oxygen generator has been fired (expended):
 - 1) The heat sensitive paint found on the generator exterior has turned black, and/or,
 - 2) The release pin is no longer engaged with the firing pin, and/or,
 - 3) The firing pin has retracted into the firing mechanism so that the release pin hole is no longer visible on the firing pin.



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 INJURY OR DEATH TO PERSONS AND DAMAGE TO EQUIPMENT.

(5) If the oxygen generator has been fired (expended), process the expended generator as appropriate, and replace the oxygen generator with new.

NOTE: Deactivation of a fired (expended) generator is neither possible, nor necessary. Once the expended generator has cooled, it can be safely handled and processed.

(a) To replace the fired (expended) generator, select the appropriate task:

Attendant /Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Removal, TASK 35-21-11-000-801

Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Installation, TASK 35-21-11-400-801

Main Cabin Center Oxygen PSU Oxygen Generator Removal, TASK 35-21-12-000-801 Main Cabin Center Oxygen PSU Oxygen Generator Installation, TASK 35-21-12-400-801

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Main Cabin Outboard Oxygen PSU Oxygen Generator Removal, TASK 35-21-13-000-801

Main Cabin Outboard Oxygen PSU Oxygen Generator Installation, TASK 35-21-13-400-801

F. Procedure

NOTE: Reference the figure:

Attendant / Lavatory Oxygen PSU Generator Firing Mechanism Activation / Deactivation/Figure 204

SUBTASK 35-21-11-211-001

- (1) Before installing the release pin, visually inspect the pins general condition:
 - (a) Replace the release pin/cable assembly if it demonstrates any of the following conditions:
 - 1) Galling
 - 2) Bends
 - 3) Corrosion.
 - 4) Nicks
 - Scrapes

SUBTASK 35-21-11-440-001



DO NOT REMOVE THE SAFETY PIN IF THE RELEASE PIN IS NOT INSTALLED. IF THE SAFETY PIN IS REMOVED THE OXYGEN GENERATOR WILL FIRE, AND THE GENERATOR WOULD HAVE TO BE REPLACED.



MAKE SURE THAT THE RELEASE PIN IS INSTALLED IN THE LARGER OF THE TWO HOLES, AND THAT THE SAFETY PIN IS INSTALLED IN THE SMALLER OF THE TWO HOLES LOCATED IN THE FIRING PIN. FAILURE TO INSTALL THE PINS COULD PREVENT THE OXYGEN GENERATOR FROM FIRING WHEN THE OXYGEN MASKS ARE ACTUATED.

- (2) To activate a chemical oxygen generator, do the steps that follow:
 - (a) Engage the firing pin retraction pliers and relieve the pressure on the safety pin.
 - (b) Remove the firing pin retraction pliers and safety pin, SPL-1937 (for B/E Aerospace and AVOX Systems oxygen generator) or firing pin retraction pliers, COM-1935 (for Drager oxygen generator).
 - (c) Remove the firing pin retraction pliers, COM-1935.

SUBTASK 35-21-11-211-002

(3) To inspect the oxygen generator to be sure that firing mechanism has been correctly activated, and to close the oxygen PSU after completing maintenance, select the appropriate task:

Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Firing Mechanism Detailed Visual Inspection, TASK 35-21-11-200-801

Main Cabin Center Oxygen PSU Oxygen Generator Firing Mechanism Detailed Visual Inspection, TASK 35-21-12-200-801

Main Cabin Outboard Oxygen PSU Oxygen Generator Firing Mechanism Detailed Visual Inspection, TASK 35-21-13-211-801

------ END OF TASK ------

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TASK 35-21-11-200-801

4. Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Firing Mechanism Detailed Visual Inspection

A. General

- (1) This procedure inspects the chemical oxygen generator firing mechanism before maintenance. To inspect an oxygen cylinder (CDS) actuator assembly, refer to Oxygen Cylinder (CDS) Subject 35-21-02.
- (2) This task is for the following Attendant / Lavatory oxygen passenger service units (PSUs) locations:
 - (a) Attendant seating areas
 - (b) Flight Crew Rest
 - (c) Galleys
- (3) Each oxygen passenger service unit (PSU) has at least one chemical oxygen generator. The generator, when ignited, supplies oxygen to each of the connected masks. Each generator has a temperature witness strip around the units body to show if the oxygen generator has previously ignited (oxygen flow started) or not. The generator will start the oxygen flow when the mask is pulled downward, provided that the safety pin is removed from the firing mechanism.
- (4) All replacement chemical oxygen generators are supplied with a safety pin. The safety pin is installed in the firing mechanism of the oxygen generator. The generator cannot ignite (start oxygen flow) when the safety pin is correctly installed. The generator is safe to handle when the safety pin is installed.
- (5) In addition to the safety pin, a secondary safety device is used for the transport of spare oxygen generators This secondary safety device must be removed from the firing mechanisms release pin hole, before the release pin can be installed.
- (6) The safety pin has to be installed in the oxygen generator firing mechanism (oxygen generator deactivation) whenever the oxygen generator or the oxygen passenger service unit is to be removed from the airplane, or when any other oxygen passenger service unit (PSU) maintenance is to be performed.
- (7) Once either the oxygen generator or the oxygen passenger service unit (PSU) is installed, and other maintenance to the PSU is complete, the safety pin is to be removed from the generator firing mechanism (oxygen generator activation).

B. References

Reference	Title	
25-21-07-000-801	Lowered Ceiling Panel Removal (P/B 401)	
25-21-07-400-801	Lowered Ceiling Panel Installation (P/B 401)	
25-21-08-000-801	Overdoor Panel Opening/Removal (P/B 201)	
25-21-08-400-801	Overdoor Panel Installation/Closing (P/B 201)	
Location Zones		

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Preparation

NOTE: Reference the figure:

Attendant / Lavatory Oxygen PSU Location/Figure 202

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SUBTASK 35-21-11-800-007

- (1) Get access to the appropriate Attendant / Lavatory Oxygen Passenger Service Units (PSUs) as follows:
 - (a) Attendant / Lavatory Oxygen PSUs can be found in the following locations:
 - 1) Attendant seating locations
 - 2) Galleys

SUBTASK 35-21-11-010-003

- (2) When maintenance access to an Attendant / Lavatory Oxygen PSU is required:
 - (a) For Attendant / Lavatory PSUs located in the cross-aisle and lavatory ceilings, lower the access panel adjacent to the PSU (Lowered Ceiling Panel Removal, TASK 25-21-07-000-801).
 - (b) For Attendant / Lavatory PSUs located in the galley and overdoor ceilings, lower the access panel containing the PSU (Overdoor Panel Opening/Removal, TASK 25-21-08-000-801).

E. Procedure

NOTE: Reference the figure:

Attendant / Lavatory Oxygen PSU Generator Firing Mechanism Inspection/Figure 205

SUBTASK 35-21-11-211-003

- (1) To inspect the oxygen generator firing mechanism for proper activation, make sure that the following conditions have been met:
 - (a) The release cable is routed through each mask lanyard ring.



IN ADDITION TO THE SAFETY PIN, A SECONDARY SAFETY DEVICE IS USED FOR THE TRANSPORT OF SPARE OXYGEN GENERATOR. THIS SECONDARY SAFETY DEVICE MUST BE REMOVED FROM THE FIRING PINS RELEASE PIN HOLE BEFORE THE RELEASE PIN CAN BE INSTALLED. FAILURE TO DO SO COULD PREVENT THE OXYGEN GENERATOR FROM FIRING WHEN THE OXYGEN MASKS ARE ACTUATED.

- (b) The secondary safety device has been removed from the larger of the two holes in the firing pin.
- (c) The release pin is inserted in the larger of the two holes in the firing pin.
- (d) The release pin is positioned against the generator firing mechanism spring housing.
- (e) The safety pin and warning flag is not present in the firing pin
- (2) If any of the above conditions have not been met, the oxygen generator must be deactivated before corrections can be made.

SUBTASK 35-21-11-410-001

- (3) When ceiling access to a PSU is no longer required do the appropriate step that follows:
 - (a) For PSUs located in the galley and overdoor ceilings, close the access panel containing the PSU (Overdoor Panel Installation/Closing, TASK 25-21-08-400-801).
 - (b) For PSUs located in the cross-aisle and lavatory ceilings, close the access panel adjacent to the PSU (Lowered Ceiling Panel Installation, TASK 25-21-07-400-801).



SUBTASK 35-21-11-865-003

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

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	3	C35403	L PAX OXY
Α	4	C35405	C PAX OXY
Α	5	C35404	R PAX OXY
Н	3	C35606	CHAN A OXY DEPLOY
Н	4	C35607	CHAN B OXY DEPLOY

SUBTASK 35-21-11-741-001

(5) The activated oxygen PSU can now be returned to service.



TASK 35-21-11-000-801

5. Attendant /Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Removal

NOTE: This procedure is a scheduled maintenance task.

A. General

- (1) This procedure removes the chemical oxygen generator. To remove an oxygen cylinder (CDS), refer to Oxygen Cylinder (CDS) Subject 35-21-02.
- (2) This task is for the following Attendant / Lavatory oxygen passenger service units (PSUs) locations:
 - (a) Attendant seating areas
 - (b) Flight Crew Rest
 - (c) Galleys
- (3) Each oxygen passenger service unit (PSU) has at least one chemical oxygen generator. The generator, when ignited, supplies oxygen to each of the connected masks. Each generator has a temperature witness strip around the units body to show if the oxygen generator has previously ignited (oxygen flow started) or not. The generator will start the oxygen flow when the mask is pulled downward, provided that the safety pin is removed from the firing mechanism.
- (4) All replacement chemical oxygen generators are supplied with a safety pin. The safety pin is installed in the firing mechanism of the oxygen generator. The generator cannot ignite (start oxygen flow) when the safety pin is correctly installed. The generator is safe to handle when the safety pin is installed.
- (5) In addition to the safety pin, a secondary safety device is used for the transport of spare oxygen generators This secondary safety device must be removed from the firing mechanisms release pin hole, before the release pin can be installed.
- (6) The safety pin has to be installed in the oxygen generator firing mechanism (oxygen generator deactivation) whenever the oxygen generator or the oxygen passenger service unit is to be removed from the airplane, or when any other oxygen passenger service unit (PSU) maintenance is to be performed.
- (7) Once either the oxygen generator or the oxygen passenger service unit (PSU) is installed, and other maintenance to the PSU is complete, the safety pin is to be removed from the generator firing mechanism (oxygen generator activation).

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B. References

Reference	Title
25-21-07-000-801	Lowered Ceiling Panel Removal (P/B 401)
25-21-08-000-801	Overdoor Panel Opening/Removal (P/B 201)
35-21-12-000-801	Main Cabin Center Oxygen PSU Oxygen Generator Removal (P/B 201)
35-21-12-040-801	Main Cabin Center Oxygen PSU Oxygen Generator Firing Mechanism Deactivation (P/B 201)
35-21-12-400-801	Main Cabin Center Oxygen PSU Oxygen Generator Installation (P/B 201)
35-21-13-000-801	Main Cabin Outboard Oxygen PSU Oxygen Generator Removal (P/B 201)
35-21-13-040-801	Main Cabin Outboard Oxygen PSU Oxygen Generator Firing Mechanism Deactivation (P/B 201)
35-21-13-400-801	Main Cabin Outboard Oxygen PSU Oxygen Generator Installation (P/B 201)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Preparation

NOTE: Reference the figures:

Attendant / Lavatory Oxygen PSU Location/Figure 202

Attendant / Lavatory Oxygen PSU Generator Fired Inspection/Figure 203

Attendant / Lavatory Oxygen PSU Generator Firing Mechanism Activation /

Deactivation/Figure 204

SUBTASK 35-21-11-800-009

- (1) Get access to the appropriate Attendant / Lavatory Oxygen Passenger Service Units (PSUs) as follows:
 - (a) Attendant / Lavatory Oxygen PSUs can be found in the following locations:
 - 1) Attendant seating locations
 - 2) Galleys

SUBTASK 35-21-11-865-004

(2) Open these circuit breakers and install safety tags:

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	3	C35403	L PAX OXY
Α	4	C35405	C PAX OXY
Α	5	C35404	R PAX OXY
Н	3	C35606	CHAN A OXY DEPLOY
Н	4	C35607	CHAN B OXY DEPLOY

SUBTASK 35-21-11-010-004

(3) When maintenance access to an Attendant / Lavatory Oxygen PSU is required:

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- (a) For Attendant / Lavatory PSUs located in the cross-aisle and lavatory ceilings, lower the access panel adjacent to the PSU (Lowered Ceiling Panel Removal, TASK 25-21-07-000-801).
- (b) For Attendant / Lavatory PSUs located in the galley and overdoor ceilings, lower the access panel containing the PSU (Overdoor Panel Opening/Removal, TASK 25-21-08-000-801).

SUBTASK 35-21-11-210-003

- (4) Examine the oxygen generator [2] to determine if it has been previously fired.
 - (a) Any of the following conditions indicate that the oxygen generator has been fired (expended):
 - 1) The heat sensitive paint found on the generator exterior has turned black, and/or,
 - 2) The release pin is no longer engaged with the firing pin, and/or,
 - 3) The firing pin has retracted into the firing mechanism so that the release pin hole is no longer visible on the firing pin.



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 INJURY OR DEATH TO PERSONS AND DAMAGE TO EQUIPMENT.

(5) If the oxygen generator has been fired (expended), process the expended generator as appropriate, and replace the oxygen generator with new.

NOTE: Deactivation of a fired (expended) generator is neither possible, nor necessary. Once the expended generator has cooled, it can be safely handled and processed.

(a) To replace the fired (expended) generator, select the appropriate task:

Attendant /Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Removal, TASK 35-21-11-000-801

Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Installation, TASK 35-21-11-400-801

Main Cabin Center Oxygen PSU Oxygen Generator Removal, TASK 35-21-12-000-801

Main Cabin Center Oxygen PSU Oxygen Generator Installation, TASK 35-21-12-400-801

Main Cabin Outboard Oxygen PSU Oxygen Generator Removal,

TASK 35-21-13-000-801

Main Cabin Outboard Oxygen PSU Oxygen Generator Installation, TASK 35-21-13-400-801

SUBTASK 35-21-11-040-005

- (6) Make sure the oxygen generator [2] firing mechanism is deactivated (safety pin installed) prior to conducting any maintenance on the Oxygen PSU.
 - (a) To deactivate the oxygen generator, select the appropriate task: Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Firing Mechanism Deactivation, TASK 35-21-11-040-801

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Main Cabin Outboard Oxygen PSU Oxygen Generator Firing Mechanism Deactivation, TASK 35-21-13-040-801

Main Cabin Center Oxygen PSU Oxygen Generator Firing Mechanism Deactivation, TASK 35-21-12-040-801

NOTE: Deactivation of a fired (expended) generator is neither possible, nor necessary. Once the expended generator has cooled, it can be safely handled and processed.

E. Procedure

NOTE: Reference the figure:

Attendant / Lavatory PSU Generator Removal / Installation/Figure 206

SUBTASK 35-21-11-020-001

- (1) To remove the generator [2] from the oxygen PSU, do the steps that follow:
 - (a) Make sure the oxygen generator [2] firing mechanism is deactivated (the safety pin is installed).
 - (b) Disconnect the oxygen hoses from the generator [2].
 - (c) Remove the screw and washer from the strap cover.
 - (d) Pull back the strap cover.



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
INJURY OR DEATH TO PERSONS AND DAMAGE TO EQUIPMENT.

(e) Remove the generator

SUBTASK 35-21-11-400-001

(2) To install an oxygen generator into an Attendant / Lavatory Oxygen PSU, do this task: Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Installation, TASK 35-21-11-400-801.

----- END OF TASK -----

TASK 35-21-11-400-801

6. Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Installation

NOTE: This procedure is a scheduled maintenance task.

A. General

- (1) This procedure installs the chemical oxygen generator. To install an oxygen cylinder (CDS), refer to Oxygen Cylinder (CDS) Subject 35-21-02.
- (2) This task is for the following Attendant / Lavatory oxygen passenger service units (PSUs) locations:
 - (a) Attendant seating areas
 - (b) Flight Crew Rest

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(c) Galleys

B. References

Reference	Title
25-21-07-000-801	Lowered Ceiling Panel Removal (P/B 401)
25-21-08-000-801	Overdoor Panel Opening/Removal (P/B 201)
35-21-12-000-801	Main Cabin Center Oxygen PSU Oxygen Generator Removal (P/B 201)
35-21-12-040-801	Main Cabin Center Oxygen PSU Oxygen Generator Firing Mechanism Deactivation (P/B 201)
35-21-12-400-801	Main Cabin Center Oxygen PSU Oxygen Generator Installation (P/B 201)
35-21-13-000-801	Main Cabin Outboard Oxygen PSU Oxygen Generator Removal (P/B 201)
35-21-13-040-801	Main Cabin Outboard Oxygen PSU Oxygen Generator Firing Mechanism Deactivation (P/B 201)
35-21-13-400-801	Main Cabin Outboard Oxygen PSU Oxygen Generator Installation (P/B 201)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Preparation

NOTE: Reference the figures:

Attendant / Lavatory Oxygen PSU Location/Figure 202

Attendant / Lavatory Oxygen PSU Generator Fired Inspection/Figure 203

Attendant / Lavatory Oxygen PSU Generator Firing Mechanism Activation / Deactivation/Figure 204

SUBTASK 35-21-11-800-011

- (1) Get access to the appropriate Attendant / Lavatory Oxygen Passenger Service Units (PSUs) as follows:
 - (a) Attendant / Lavatory Oxygen PSUs can be found in the following locations:
 - Attendant seating locations
 - 2) Galleys

SUBTASK 35-21-11-865-005

(2) Open these circuit breakers and install safety tags:

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	3	C35403	L PAX OXY
Α	4	C35405	C PAX OXY
Α	5	C35404	R PAX OXY
Н	3	C35606	CHAN A OXY DEPLOY
Н	4	C35607	CHAN B OXY DEPLOY

SUBTASK 35-21-11-010-005

(3) When maintenance access to an Attendant / Lavatory Oxygen PSU is required:

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- (a) For Attendant / Lavatory PSUs located in the cross-aisle and lavatory ceilings, lower the access panel adjacent to the PSU (Lowered Ceiling Panel Removal, TASK 25-21-07-000-801).
- (b) For Attendant / Lavatory PSUs located in the galley and overdoor ceilings, lower the access panel containing the PSU (Overdoor Panel Opening/Removal, TASK 25-21-08-000-801).

SUBTASK 35-21-11-210-004

- (4) Examine the oxygen generator [2] to determine if it has been previously fired.
 - (a) Any of the following conditions indicate that the oxygen generator has been fired (expended):
 - 1) The heat sensitive paint found on the generator exterior has turned black, and/or,
 - 2) The release pin is no longer engaged with the firing pin, and/or,
 - 3) The firing pin has retracted into the firing mechanism so that the release pin hole is no longer visible on the firing pin.



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 INJURY OR DEATH TO PERSONS AND DAMAGE TO EQUIPMENT.

(5) If the oxygen generator has been fired (expended), process the expended generator as appropriate, and replace the oxygen generator with new.

NOTE: Deactivation of a fired (expended) generator is neither possible, nor necessary. Once the expended generator has cooled, it can be safely handled and processed.

(a) To replace the fired (expended) generator, select the appropriate task:

Attendant /Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Removal, TASK 35-21-11-000-801

Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Installation, TASK 35-21-11-400-801

Main Cabin Center Oxygen PSU Oxygen Generator Removal, TASK 35-21-12-000-801

Main Cabin Center Oxygen PSU Oxygen Generator Installation, TASK 35-21-12-400-801

Main Cabin Outboard Oxygen PSU Oxygen Generator Removal,

TASK 35-21-13-000-801

Main Cabin Outboard Oxygen PSU Oxygen Generator Installation, TASK 35-21-13-400-801

SUBTASK 35-21-11-800-012

- (6) Make sure the oxygen generator [2] firing mechanism is deactivated (safety pin installed) prior to conducting any maintenance on the Oxygen PSU.
 - (a) To deactivate the oxygen generator, select the appropriate task:

Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Firing Mechanism Deactivation, TASK 35-21-11-040-801

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Main Cabin Outboard Oxygen PSU Oxygen Generator Firing Mechanism Deactivation, TASK 35-21-13-040-801

Main Cabin Center Oxygen PSU Oxygen Generator Firing Mechanism Deactivation, TASK 35-21-12-040-801

NOTE: Deactivation of a fired (expended) generator is neither possible, nor necessary. Once the expended generator has cooled, it can be safely handled and processed.

E. Procedure

NOTE: Reference the figures:

Attendant / Lavatory PSU Generator Removal / Installation/Figure 206

SUBTASK 35-21-11-420-001

- (1) Do a visual check if the shape of the starter assembly and the outlet valve assembly are perpendicular to the lids.
- (2) To install the oxygen generator [2] into the Oxygen PSU, do the following steps:
 - (a) Put the generator [2] in the position for installation.
 - (b) Lower the strap cover down on top of the generator [2].
 - (c) Install the screw, and washer in the strap cover.
 - (d) Attach the oxygen hose to the generator [2].

SUBTASK 35-21-11-211-004

- (3) Before installing the release pin, visually inspect the pins general condition:
 - (a) Replace the release pin/cable assembly if it demonstrates any of the following conditions:
 - 1) Galling
 - 2) Bends
 - 3) Corrosion.
 - 4) Nicks
 - Scrapes

SUBTASK 35-21-11-420-002



DO NOT REMOVE THE SAFETY PIN IF THE RELEASE PIN IS NOT INSTALLED. IF THE SAFETY PIN IS REMOVED THE OXYGEN GENERATOR WILL FIRE, AND THE GENERATOR WOULD HAVE TO BE REPLACED.

(4) To install the release pin into the oxygen generator firing mechanism, do the steps that follow:



IN ADDITION TO THE SAFETY PIN, A SECONDARY SAFETY DEVICE IS USED FOR THE TRANSPORT OF SPARE OXYGEN GENERATOR. THIS SECONDARY SAFETY DEVICE MUST BE REMOVED FROM THE FIRING PINS RELEASE PIN HOLE BEFORE THE RELEASE PIN CAN BE INSTALLED. FAILURE TO DO SO COULD PREVENT THE OXYGEN GENERATOR FROM FIRING WHEN THE OXYGEN MASKS ARE ACTUATED.

(a) Remove the secondary safety device, if installed, from the release pin hole in the firing pin. The release pin hole is the larger of the two holes on the firing pin of the oxygen generator.

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(b) Route the release pin and cable through the mask lanyard rings.



MAKE SURE THAT THE RELEASE PIN IS INSTALLED IN THE LARGER OF THE TWO HOLES, AND THAT THE SAFETY PIN IS INSTALLED IN THE SMALLER OF THE TWO HOLES LOCATED IN THE FIRING PIN. FAILURE TO INSTALL THE PINS COULD PREVENT THE OXYGEN GENERATOR FROM FIRING WHEN THE OXYGEN MASKS ARE ACTUATED.

(c) Route the release pin to, and install in, the larger of the two holes in the firing pin.

NOTE: The release pin should fit into the outer/larger hole without resistance. The release pin is held firmly against the firing pin spring case on removal of the safety pin.

SUBTASK 35-21-11-440-002

(5) When all maintenance tasks for the Attendant / Lavatory Oxygen PSU are complete, do the task:

Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Firing Mechanism Activation, TASK 35-21-11-440-801



TASK 35-21-11-200-802

7. Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Check

A. General

- (1) This procedure inspects/checks the chemical oxygen generator. This task is not applicable to the oxygen cylinder (CDS).
- (2) This task is for the following Attendant / Lavatory oxygen passenger service units (PSUs) locations:
 - (a) Attendant seating areas
 - (b) Flight Crew Rest
 - (c) Galleys
- (3) Each oxygen passenger service unit (PSU) has at least one chemical oxygen generator. The generator, when ignited, supplies oxygen to each of the connected masks. Each generator has a temperature witness strip around the units body to show if the oxygen generator has previously ignited (oxygen flow started) or not. The generator will start the oxygen flow when the mask is pulled downward, provided that the safety pin is removed from the firing mechanism.
- (4) All replacement chemical oxygen generators are supplied with a safety pin. The safety pin is installed in the firing mechanism of the oxygen generator. The generator cannot ignite (start oxygen flow) when the safety pin is correctly installed. The generator is safe to handle when the safety pin is installed.
- (5) In addition to the safety pin, a secondary safety device is used for the transport of spare oxygen generators This secondary safety device must be removed from the firing mechanisms release pin hole, before the release pin can be installed.
- (6) The safety pin has to be installed in the oxygen generator firing mechanism (oxygen generator deactivation) whenever the oxygen generator or the oxygen passenger service unit is to be removed from the airplane, or when any other oxygen passenger service unit (PSU) maintenance is to be performed.

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(7) Once either the oxygen generator or the oxygen passenger service unit (PSU) is installed, and other maintenance to the PSU is complete, the safety pin is to be removed from the generator firing mechanism (oxygen generator activation).

B. References

Reference	Title
25-21-07-000-801	Lowered Ceiling Panel Removal (P/B 401)
25-21-07-400-801	Lowered Ceiling Panel Installation (P/B 401)
25-21-08-000-801	Overdoor Panel Opening/Removal (P/B 201)
25-21-08-400-801	Overdoor Panel Installation/Closing (P/B 201)
35-21-12-000-801	Main Cabin Center Oxygen PSU Oxygen Generator Removal (P/B 201)
35-21-12-040-801	Main Cabin Center Oxygen PSU Oxygen Generator Firing Mechanism Deactivation (P/B 201)
35-21-12-400-801	Main Cabin Center Oxygen PSU Oxygen Generator Installation (P/B 201)
35-21-13-000-801	Main Cabin Outboard Oxygen PSU Oxygen Generator Removal (P/B 201)
35-21-13-040-801	Main Cabin Outboard Oxygen PSU Oxygen Generator Firing Mechanism Deactivation (P/B 201)
35-21-13-400-801	Main Cabin Outboard Oxygen PSU Oxygen Generator Installation (P/B 201)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Preparation

NOTE: Reference the figure:

Attendant / Lavatory Oxygen PSU Location/Figure 202

SUBTASK 35-21-11-800-014

- (1) Get access to the appropriate Attendant / Lavatory Oxygen Passenger Service Units (PSUs) as follows:
 - (a) Attendant / Lavatory Oxygen PSUs can be found in the following locations:
 - 1) Attendant seating locations
 - 2) Galleys

SUBTASK 35-21-11-865-006

(2) Open these circuit breakers and install safety tags:

Standby Power Management Panel, P310

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	3	C35403	L PAX OXY
Α	4	C35405	C PAX OXY
Α	5	C35404	R PAX OXY
Н	3	C35606	CHAN A OXY DEPLOY
Н	4	C35607	CHAN B OXY DEPLOY

SUBTASK 35-21-11-010-006

(3) When maintenance access to an Attendant / Lavatory Oxygen PSU is required:

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- (a) For Attendant / Lavatory PSUs located in the cross-aisle and lavatory ceilings, lower the access panel adjacent to the PSU (Lowered Ceiling Panel Removal, TASK 25-21-07-000-801).
- (b) For Attendant / Lavatory PSUs located in the galley and overdoor ceilings, lower the access panel containing the PSU (Overdoor Panel Opening/Removal, TASK 25-21-08-000-801).

E. Procedure

NOTE: Reference the figures:

Attendant / Lavatory Oxygen PSU Generator Fired Inspection/Figure 203

Attendant / Lavatory Oxygen PSU Generator Firing Mechanism Activation / Deactivation/Figure 204

Attendant / Lavatory Oxygen PSU Generator Firing Mechanism Inspection/Figure 205

Attendant / Lavatory PSU Generator Removal / Installation/Figure 206

SUBTASK 35-21-11-210-005

- (1) Examine the oxygen generator [2] to determine if it has been previously fired.
 - (a) Any of the following conditions indicate that the oxygen generator has been fired (expended):
 - 1) The heat sensitive paint found on the generator exterior has turned black, and/or,
 - 2) The release pin is no longer engaged with the firing pin, and/or,
 - 3) The firing pin has retracted into the firing mechanism so that the release pin hole is no longer visible on the firing pin.



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 INJURY OR DEATH TO PERSONS AND DAMAGE TO EQUIPMENT.

(2) If the oxygen generator has been fired (expended), process the expended generator as appropriate, and replace the oxygen generator with new.

<u>NOTE</u>: Deactivation of a fired (expended) generator is neither possible, nor necessary. Once the expended generator has cooled, it can be safely handled and processed.

(a) To replace the fired (expended) generator, select the appropriate task:

Attendant /Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Removal, TASK 35-21-11-000-801

Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Installation, TASK 35-21-11-400-801

Main Cabin Center Oxygen PSU Oxygen Generator Removal, TASK 35-21-12-000-801

Main Cabin Center Oxygen PSU Oxygen Generator Installation, TASK 35-21-12-400-801

Main Cabin Outboard Oxygen PSU Oxygen Generator Removal,

TASK 35-21-13-000-801

Main Cabin Outboard Oxygen PSU Oxygen Generator Installation, TASK 35-21-13-400-801

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SUBTASK 35-21-11-212-001

- (3) To check the oxygen generator [2] installation, do the following steps:
 - (a) Make sure the generator [2] is installed firmly in position.
 - (b) Make sure the oxygen hose is connected in the generator [2].
 - (c) Make sure the release cable is correctly routed through the mask lanyards.
- (4) If any of the above conditions have not been met, the oxygen generator [2] must be deactivated before corrections can be made.
 - (a) To deactivate the oxygen generator [2], select the appropriate task:
 - Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Firing Mechanism Deactivation, TASK 35-21-11-040-801
 - Main Cabin Center Oxygen PSU Oxygen Generator Firing Mechanism Deactivation, TASK 35-21-12-040-801
 - Main Cabin Outboard Oxygen PSU Oxygen Generator Firing Mechanism Deactivation, TASK 35-21-13-040-801
 - (b) To correct a faulty oxygen generator installation, select the appropriate task:
 - Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Installation, TASK 35-21-11-400-801
 - Main Cabin Center Oxygen PSU Oxygen Generator Installation, TASK 35-21-12-400-801 Main Cabin Outboard Oxygen PSU Oxygen Generator Installation, TASK 35-21-13-400-801

SUBTASK 35-21-11-211-005

- (5) To inspect the oxygen generator firing mechanism for proper activation, make sure that the following conditions have been met:
 - (a) The release cable is routed through each mask lanyard ring.



IN ADDITION TO THE SAFETY PIN, A SECONDARY SAFETY DEVICE IS USED FOR THE TRANSPORT OF SPARE OXYGEN GENERATOR. THIS SECONDARY SAFETY DEVICE MUST BE REMOVED FROM THE FIRING PINS RELEASE PIN HOLE BEFORE THE RELEASE PIN CAN BE INSTALLED. FAILURE TO DO SO COULD PREVENT THE OXYGEN GENERATOR FROM FIRING WHEN THE OXYGEN MASKS ARE ACTUATED.

- (b) The secondary safety device has been removed from the larger of the two holes in the firing pin.
- (c) The release pin is inserted in the larger of the two holes in the firing pin.
- (d) The release pin is positioned against the generator firing mechanism spring housing.
- (e) The safety pin and warning flag is not present in the firing pin
- (6) If any of the above conditions have not been met, the oxygen generator must be deactivated before corrections can be made.

SUBTASK 35-21-11-410-002

- (7) When ceiling access to a PSU is no longer required do the appropriate step that follows:
 - (a) For PSUs located in the galley and overdoor ceilings, close the access panel containing the PSU (Overdoor Panel Installation/Closing, TASK 25-21-08-400-801).

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(b) For PSUs located in the cross-aisle and lavatory ceilings, close the access panel adjacent to the PSU (Lowered Ceiling Panel Installation, TASK 25-21-07-400-801).

SUBTASK 35-21-11-865-007

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

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	3	C35403	L PAX OXY
Α	4	C35405	C PAX OXY
Α	5	C35404	R PAX OXY
Н	3	C35606	CHAN A OXY DEPLOY
Н	4	C35607	CHAN B OXY DEPLOY

SUBTASK 35-21-11-741-002

(9) The oxygen PSU can now be returned to service.



TASK 35-21-11-000-802

8. Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Mask Removal

A. General

- (1) This procedure removes the oxygen masks from the following Attendant / Lavatory Oxygen passenger service units (PSUs).
 - (a) Attendant seating areas
 - (b) Flight Crew Rest
 - (c) Lavatories
 - (d) Galleys

B. References

Reference	Title
25-21-07-000-801	Lowered Ceiling Panel Removal (P/B 401)
25-21-08-000-801	Overdoor Panel Opening/Removal (P/B 201)
35-21-02-040-801	Oxygen Cylinder (CDS) Deactivation (P/B 201)

C. 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

D. Location Zones

Zone	Area	
200	Upper Half of Fuselage	

E. Preparation

NOTE: Reference the figure:

Attendant / Lavatory Oxygen PSU Location/Figure 202

SUBTASK 35-21-11-800-016

- (1) Get access to the appropriate Attendant / Lavatory Oxygen Passenger Service Units (PSUs) as follows:
 - (a) Attendant / Lavatory Oxygen PSUs can be found in the following locations:

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- 1) Attendant seating locations
- 2) Galleys

SUBTASK 35-21-11-010-007

- (2) To open an oxygen PSU oxygen mask box for maintenance, do the steps that follow:
 - (a) Insert the 0.090 in to 0.125 in diameter 6 in length rod, STD-4241 through the access hole in the PSU oxygen mask box door to disengage the door latch/actuator.
 - (b) Open the PSU oxygen mask box door.

NOTE: The masks will fall from the mask box.

SUBTASK 35-21-11-010-017

- (3) When maintenance access to an Attendant / Lavatory Oxygen PSU is required:
 - (a) For Attendant / Lavatory PSUs located in the cross-aisle and lavatory ceilings, lower the access panel adjacent to the PSU (Lowered Ceiling Panel Removal, TASK 25-21-07-000-801).
 - (b) For Attendant / Lavatory PSUs located in the galley and overdoor ceilings, lower the access panel containing the PSU (Overdoor Panel Opening/Removal, TASK 25-21-08-000-801).

F. Procedure

NOTE: Reference the figure:

Attendant / Lavatory Oxygen PSU Mask (Oxygen Generator) Removal / Installation/Figure 207 or Lavatory Oxygen PSU Mask (Oxygen Cylinder CDS) Removal / Installation/Figure 208

SUBTASK 35-21-11-040-008



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.

(1) Oxygen Generator equipped PSUs;

Deactivate the oxygen generator firing mechanism (safety pin installed) before maintenance on the Oxygen PSU. Do this task; Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Firing Mechanism Deactivation, TASK 35-21-11-040-801

<u>NOTE</u>: Deactivation of a fired (expended) generator is not necessary. Once the expended generator has cooled, it can be safely handled and processed.

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(2) Oxygen Cylinder (CDS) equipped Lavatory PSUs;

Deactivate the oxygen cylinder actuator (safety pin installed) before maintenance on the Oxygen PSU. Do this task: Oxygen Cylinder (CDS) Deactivation, TASK 35-21-02-040-801

NOTE: Deactivation of an empty (expended) oxygen cylinder is not necessary.

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EFFECTIVITY .



SUBTASK 35-21-11-010-020



DO THE DEACTIVATION PROCEDURE FOR THE OXYGEN GENERATOR. ACCIDENTAL OPERATION OF THE OXYGEN GENERATOR CAN CAUSE INJURIES TO PERSONS AND DAMAGE TO EQUIPMENT.

Oxygen Generator equipped PSUs;

To remove an oxygen mask [2] from a PSU, do the steps that follow:

- (a) Remove the release pin from the firing pin on the oxygen generator firing mechanism.
- (b) Gently pull the firing cable out of the mask lanyard loops.
- (c) Gently pull the mask hose off of the mask hose manifold to remove the oxygen mask [2].
- (4) Oxygen Cylinder (CDS) equipped Lavatory PSUs;

To remove an oxygen mask from a PSU, do the steps that follow:

NOTE: For details of the mask and oxygen cylinder lanyard connection, refer to Figure 209.

- (a) Disconnect the split ring from the release lanyard.
- (b) Remove the mask lanyards from the release lanyard..
- (c) Gently pull the mask hose off of the mask hose manifold..
- (d) Disconnect the nut, screw, washers and clamps attaching the mask hoses to the oxygen box.
- (e) Pull the hoses through the oxygen box opening and remove the masks.



TASK 35-21-11-400-802

9. Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Mask Installation

A. General

- (1) This procedure installs the oxygen masks into the following Attendant / Lavatory Oxygen passenger service units (PSUs):
 - (a) Attendant seating areas
 - (b) Flight Crew Rest
 - (c) Lavatories
 - (d) Galleys
- (2) To pack the oxygen mask prior to installing into the Attendant / Lavatory Oxygen PSU, do this task:

Attendant /Crew Rest/ Lavatory Oxygen PSU Oxygen Mask Packing, TASK 35-21-11-400-803

B. References

Reference	Title
25-21-07-400-801	Lowered Ceiling Panel Installation (P/B 401)
25-21-08-400-801	Overdoor Panel Installation/Closing (P/B 201)
35-21-02-440-801	Oxygen Cylinder (CDS) Activation (P/B 201)

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C. 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

D. Location Zones

Zone	Area
200	Upper Half of Fuselage

E. Preparation

NOTE: Reference the figure:

Attendant / Lavatory Oxygen PSU Mask (Oxygen Generator) Removal / Installation/Figure 207 or Lavatory Oxygen PSU Mask (Oxygen Cylinder CDS) Removal / Installation/Figure 208

SUBTASK 35-21-11-010-009

- (1) To open an oxygen PSU oxygen mask box for maintenance, do the steps that follow:
 - (a) Insert the 0.090 in to 0.125 in diameter 6 in length rod, STD-4241 through the access hole in the PSU oxygen mask box door to disengage the door latch/actuator.
 - (b) Open the PSU oxygen mask box door.

NOTE: The masks will fall from the mask box.

F. Procedure

NOTE: Reference the figure:

Attendant / Lavatory Oxygen PSU Mask (Oxygen Generator) Removal / Installation/Figure 207 or Lavatory Oxygen PSU Mask (Oxygen Cylinder CDS) Removal / Installation/Figure 208

SUBTASK 35-21-11-420-003

(1) Oxygen Generator equipped PSUs;

To install a packed oxygen mask [2] assembly into an oxygen PSU, do the steps that follow:

- (a) If a packed oxygen mask [2] is not available, do this task: Attendant /Crew Rest/ Lavatory Oxygen PSU Oxygen Mask Packing, TASK 35-21-11-400-803.
- (b) Attach the mask hose to the oxygen generator manifold.
 - 1) Option: To aid the installation of the mask hose end, do the following:
 - Soak the tube end for 5 minutes in clean distilled water that has been heated to 120 to 140 degrees F.
 - Wipe the outside dry and install while the end is still warm and moist internally.
- (c) Route the release cable through mask lanyard rings to make sure that the mask lanyard rings maintain the same position relative to the masks.
- (d) Install the release pin into the larger of the two holes on the generator firing pin.
- (e) Remove the rubber band, if present, from the folded and coiled (packed) mask assembly.
- (f) Put the packed oxygen mask [2] assembly into the oxygen box as follows:
 - The open end of the mask should face down towards the oxygen box door.
 - 2) The mask lanyards should be placed between the coiled hose bundles and the upper side of the box.
 - a) If applicable, attach the oxygen mask hose and streamer to the doubler assembly.

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(g) Coil the mask streamers (if equipped) and then put each coiled streamer inside the mask to which it is attached.

NOTE: If there is only one mask streamer for the oxygen box assembly, it may be attached to either mask.

- (h) Make sure masks, hoses, streamers, and lanyards are not entangled with each other, with the firing mechanism or the latch actuator housing.
- (2) Oxygen Cylinder (CDS) equipped Lavatory PSUs;

To install a packed oxygen mask assembly into an oxygen PSU, do the steps that follow:

NOTE: For details of the mask and oxygen cylinder lanyard connection, refer to Figure 209.

- (a) If a packed oxygen mask is not available, do this task: Attendant /Crew Rest/ Lavatory Oxygen PSU Oxygen Mask Packing, TASK 35-21-11-400-803.
- (b) Pull the mask hoses through the oxygen box opening.
 - Make sure that there is enough hose length to route through the clamps and connect to the oxygen cylinder manifold.
 - 2) Do not bend or kink the mask hoses.
- (c) Attach the mask hoses to the oxygen cylinder manifold.
 - 1) Option: To aid the installation of the mask hose end, do the following:
 - a) Soak the tube end for 5 minutes in clean distilled water that has been heated to 120 to 140 degrees F.
 - b) Wipe the outside dry and install while the end is still warm and moist internally.
- (d) Connect the mask hose to the oxygen box with the nut, screw, washers and clamps.
- (e) Put the mask lanyard loops on the release lanyard.
- (f) Connect the release lanyard to the split ring.
- (g) Remove the rubber band, if present, from the folded and coiled (packed) mask assembly.
- (h) Put the packed oxygen mask assembly into the oxygen box as follows:
 - 1) The open end of the mask should face down towards the oxygen box door.
 - 2) The mask lanyards should be placed between the coiled hose bundles and the upper side of the box.
- (i) Coil the mask streamers (if equipped) and then put each coiled streamer inside the mask to which it is attached.

NOTE: If there is only one mask streamer for the oxygen box assembly, it may be attached to either mask.

(j) Make sure masks, hoses, streamers, and lanyards are not entangled with each other, or the latch actuator housing.



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.

(k) Make sure that the release lanyard and mask lanyards can move freely.



SUBTASK 35-21-11-410-003

- (3) To close the oxygen PSU mask box door, do the steps that follow:
 - (a) Support the masks put in the mask box with the outstretched fingers of one hand while the door is raised toward the closed position with the other.
 - (b) Reset door latch/actuator by pivoting the lever arm until it engages with the magnet.
 - (c) As the door approaches the closed position, remove the hand supporting the packed mask assemblies (the masks will fall against the mask box door).
 - (d) When optional temporary rubber bands are used, do these steps:
 - 1) With the door slightly open, use a tool to cut the optional rubber bands retaining the packed mask assemblies, and remove the rubber band.
 - (e) Test the door to confirm the correct packing of the masks:
 - From an almost closed position, swing door approximately 2 inches down and up several times.
 - 2) Observe that the masks and hose bundle move with the door to assure that the masks will free fall.
 - Use a flashlight and mirror to make sure that the mask hoses do not become pinched between the door rib and the lower flange of the oxygen mask box shell.



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.

(f) Close the door until the door latch engages.

NOTE: A misfaired door can show that some items are pinched between the door and the oxygen box or between the door and the actuator mounting bracket.

- 1) Visually examine the misfairing of the door to the box.
- Make sure that a pinching condition does not exist.

SUBTASK 35-21-11-440-007

(4) Oxygen Generator equipped PSUs;

Activate the oxygen generator firing mechanism (safety pin removed) after maintenance on the Oxygen PSU. Do this task; Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Firing Mechanism Activation, TASK 35-21-11-440-801

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(5) Oxygen Cylinder (CDS) equipped Lavatory PSUs;

Activate the oxygen cylinder actuator (safety pin removed) after maintenance on the Oxygen PSU. Do this task: Oxygen Cylinder (CDS) Activation, TASK 35-21-02-440-801

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SUBTASK 35-21-11-410-006

- (6) When ceiling access to a PSU is no longer required do the appropriate step that follows:
 - (a) For PSUs located in the galley and overdoor ceilings, close the access panel containing the PSU (Overdoor Panel Installation/Closing, TASK 25-21-08-400-801).

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(b) For PSUs located in the cross-aisle and lavatory ceilings, close the access panel adjacent to the PSU (Lowered Ceiling Panel Installation, TASK 25-21-07-400-801).

——— END OF TASK ———

TASK 35-21-11-200-803

10. Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Mask Inspection

NOTE: This procedure is a scheduled maintenance task.

A. General

- (1) To inspect the oxygen masks from the Attendant / Lavatory Oxygen passenger service units (PSUs), select the appropriate task:
 - (a) Attendant seating areas
 - (b) Flight Crew Rest
 - (c) Lavatories
 - (d) Galleys

B. References

Reference	Title	
25-21-07-000-801	Lowered Ceiling Panel Removal (P/B 401)	
25-21-07-400-801	Lowered Ceiling Panel Installation (P/B 401)	
25-21-08-000-801	Overdoor Panel Opening/Removal (P/B 201)	
25-21-08-400-801	Overdoor Panel Installation/Closing (P/B 201)	
35-21-02-040-801	Oxygen Cylinder (CDS) Deactivation (P/B 201)	
35-21-02-440-801	Oxygen Cylinder (CDS) Activation (P/B 201)	

C. 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

D. Location Zones

Zone	Area
200	Upper Half of Fuselage

E. Preparation

NOTE: Reference the figure:

Attendant / Lavatory Oxygen PSU Location/Figure 202

SUBTASK 35-21-11-800-019

- (1) Get access to the appropriate Attendant / Lavatory Oxygen Passenger Service Units (PSUs) as follows:
 - (a) Attendant / Lavatory Oxygen PSUs can be found in the following locations:
 - 1) Attendant seating locations
 - 2) Galleys

SUBTASK 35-21-11-000-001

- (2) When maintenance access to an Attendant / Lavatory Oxygen PSU is required:
 - (a) For Attendant / Lavatory PSUs located in the cross-aisle and lavatory ceilings, lower the access panel adjacent to the PSU (Lowered Ceiling Panel Removal, TASK 25-21-07-000-801).

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(b) For Attendant / Lavatory PSUs located in the galley and overdoor ceilings, lower the access panel containing the PSU (Overdoor Panel Opening/Removal, TASK 25-21-08-000-801).

SUBTASK 35-21-11-010-010

- (3) To open an oxygen PSU oxygen mask box for maintenance, do the steps that follow:
 - (a) Insert the 0.090 in to 0.125 in diameter 6 in length rod, STD-4241 through the access hole in the PSU oxygen mask box door to disengage the door latch/actuator.
 - (b) Open the PSU oxygen mask box door.

NOTE: The masks will fall from the mask box.

F. Procedure

SUBTASK 35-21-11-010-018



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.

(1) Oxygen Generator equipped PSUs;

Deactivate the oxygen generator firing mechanism (safety pin installed) before maintenance on the Oxygen PSU. Do this task; Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Firing Mechanism Deactivation, TASK 35-21-11-040-801

<u>NOTE</u>: Deactivation of a fired (expended) generator is not necessary. Once the expended generator has cooled, it can be safely handled and processed.

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(2) Oxygen Cylinder (CDS) equipped Lavatory PSUs;

Deactivate the oxygen cylinder actuator (safety pin installed) before maintenance on the Oxygen PSU. Do this task: Oxygen Cylinder (CDS) Deactivation, TASK 35-21-02-040-801

NOTE: Deactivation of an empty (expended) oxygen cylinder is not necessary.

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SUBTASK 35-21-11-210-006

- (3) To do an inspection of an oxygen mask [2], do these steps:
 - (a) Make sure that the oxygen mask [2] is clean and is in a satisfactory condition.

NOTE: The usual coiling and packing of mask assemblies can put the mask assembly materials temporarily out of their correct shape.

- 1) Do a visual inspection of the oxygen mask [2] assembly:
 - a) Make sure that the oxygen masks are not damaged as follows:
 - <1> Torn parts.
 - <2> Broken parts.
 - <3> Frayed parts.
 - <4> Missing parts.
 - <5> Holes in parts.
 - b) Make sure that the oxygen mask assembly does not have these conditions:
 - <1> Stiffness.

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- <2> Permanent deformation or kinks.
- c) Make sure that all of the flapper valves are aligned and not damaged.
- d) Make sure that the bag and tube do not have changed color.
- e) Make sure that the head strap is attached to the face piece.
- f) Make sure that the head strap will get longer when you pull it, and goes back when you let it go.
- g) Make sure that the face piece does not have an odor.
- h) Look through the bag and tube. Make sure that there are no liquid drops or solid dirt on the internal or external surface of the bag and tube.
- i) Extend the tubing straight from the bag and make sure that the in-line flow indicator points to the bag.
- j) Look at the oxygen mask hose. Make sure that the hose does not have pinches or kinks.
- k) If the hose is pinched or kinked and permanent deformation has occurred, do theses steps:
 - <1> Make sure that the deformation at the smallest cross section of the hose is no less than 0.150 in. (0.381 cm) (Figure 201).
 - <2> If the cross section is smaller than 0.150 in. (0.381 cm), replace the hose.
- (4) Make sure that a lanyard is attached to the mask or to the oxygen hose.
 - (a) If the lanyard assembly is damaged or missing, replace the lanyard assembly.

SUBTASK 35-21-11-100-001

(5) To clean the mask after inspection, do the task:

Attendant/Crew Rest/ Lavatory Oxygen PSU - Oxygen Mask Cleaning, TASK 35-21-11-100-801

(6) To pack the mask after inspection, do the task:

Attendant /Crew Rest/ Lavatory Oxygen PSU Oxygen Mask Packing, TASK 35-21-11-400-803

SUBTASK 35-21-11-400-006

- (7) To close the oxygen PSU mask box door, do the steps that follow:
 - (a) Support the masks put in the mask box with the outstretched fingers of one hand while the door is raised toward the closed position with the other.
 - (b) Reset door latch/actuator by pivoting the lever arm until it engages with the magnet.
 - (c) As the door approaches the closed position, remove the hand supporting the packed mask assemblies (the masks will fall against the mask box door).
 - (d) When optional temporary rubber bands are used, do these steps:
 - 1) With the door slightly open, use a tool to cut the optional rubber bands retaining the packed mask assemblies, and remove the rubber band.
 - (e) Test the door to confirm the correct packing of the masks:
 - 1) From an almost closed position, swing door approximately 2 inches down and up several times.
 - Observe that the masks and hose bundle move with the door to assure that the masks will free fall.



 Use a flashlight and mirror to make sure that the mask hoses do not become pinched between the door rib and the lower flange of the oxygen mask box shell.



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.

(f) Close the door until the door latch engages.

NOTE: A misfaired door can show that some items are pinched between the door and the oxygen box or between the door and the actuator mounting bracket.

- 1) Visually examine the misfairing of the door to the box.
- 2) Make sure that a pinching condition does not exist.

SUBTASK 35-21-11-040-009

(8) Oxygen Generator equipped PSUs;

Activate the oxygen generator firing mechanism (safety pin removed) after maintenance on the Oxygen PSU. Do this task; Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Firing Mechanism Activation, TASK 35-21-11-440-801

ARO 011-999

(9) Oxygen Cylinder (CDS) equipped Lavatory PSUs;

Activate the oxygen cylinder actuator (safety pin removed) after maintenance on the Oxygen PSU. Do this task: Oxygen Cylinder (CDS) Activation, TASK 35-21-02-440-801

ARO ALL

SUBTASK 35-21-11-400-005

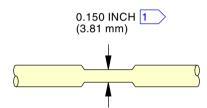
- (10) When ceiling access to a PSU is no longer required do the appropriate step that follows:
 - (a) For PSUs located in the galley and overdoor ceilings, close the access panel containing the PSU (Overdoor Panel Installation/Closing, TASK 25-21-08-400-801).
 - (b) For PSUs located in the cross-aisle and lavatory ceilings, close the access panel adjacent to the PSU (Lowered Ceiling Panel Installation, TASK 25-21-07-400-801).



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EFFECTIVITY





1 MINIMUM ALLOWABLE DIMENSION OF PINCHED/KINKED OXYGEN HOSE/TUBE.

2356188 S0000538634_V2

Oxygen Mask Hose Inspection Figure 201/35-21-11-990-816

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TASK 35-21-11-100-801

11. Attendant/Crew Rest/ Lavatory Oxygen PSU - Oxygen Mask Cleaning

A. General

- (1) This procedure cleans the oxygen masks from the these, Oxygen Passenger Service Unit (PSU), positions:
 - (a) Attendant seating areas
 - (b) Flight Crew Rest
 - (c) Lavatories
 - (d) Galleys

B. References

Reference	Title
25-21-07-000-801	Lowered Ceiling Panel Removal (P/B 401)
25-21-07-400-801	Lowered Ceiling Panel Installation (P/B 401)
25-21-08-000-801	Overdoor Panel Opening/Removal (P/B 201)
25-21-08-400-801	Overdoor Panel Installation/Closing (P/B 201)
35-21-02-040-801	Oxygen Cylinder (CDS) Deactivation (P/B 201)
35-21-02-440-801	Oxygen Cylinder (CDS) Activation (P/B 201)

C. 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

D. Consumable Materials

Reference	Description	Specification
B00541	Cleaner - General Purpose Household	
	Detergent	
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

E. Location Zones

Zone	Area	
200	Upper Half of Fuselage	

F. Preparation

NOTE: Refer to the figure:

Attendant / Lavatory Oxygen PSU Location/Figure 202

SUBTASK 35-21-11-800-021

- (1) Get access to the appropriate Attendant / Lavatory Oxygen Passenger Service Units (PSUs) as follows:
 - (a) Attendant / Lavatory Oxygen PSUs can be found in the following locations:
 - 1) Attendant seating locations
 - 2) Galleys

ARO ALL



SUBTASK 35-21-11-010-019

- (2) When maintenance access to an Attendant / Lavatory Oxygen PSU is required:
 - (a) For Attendant / Lavatory PSUs located in the cross-aisle and lavatory ceilings, lower the access panel adjacent to the PSU (Lowered Ceiling Panel Removal, TASK 25-21-07-000-801).
 - (b) For Attendant / Lavatory PSUs located in the galley and overdoor ceilings, lower the access panel containing the PSU (Overdoor Panel Opening/Removal, TASK 25-21-08-000-801).

SUBTASK 35-21-11-040-010



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.

(3) Oxygen Generator equipped PSUs;

Deactivate the oxygen generator firing mechanism (safety pin installed) before maintenance on the Oxygen PSU. Do this task; Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Firing Mechanism Deactivation, TASK 35-21-11-040-801

<u>NOTE</u>: Deactivation of a fired (expended) generator is not necessary. Once the expended generator has cooled, it can be safely handled and processed.

ARO 011-999

(4) Oxygen Cylinder (CDS) equipped Lavatory PSUs;

Deactivate the oxygen cylinder actuator (safety pin installed) before maintenance on the Oxygen PSU. Do this task: Oxygen Cylinder (CDS) Deactivation, TASK 35-21-02-040-801

NOTE: Deactivation of an empty (expended) oxygen cylinder is not necessary.

ARO ALL

SUBTASK 35-21-11-010-011

- (5) To open an oxygen PSU oxygen mask box for maintenance, do the steps that follow:
 - (a) Insert the 0.090 in to 0.125 in diameter 6 in length rod, STD-4241 through the access hole in the PSU oxygen mask box door to disengage the door latch/actuator.
 - (b) Open the PSU oxygen mask box door.

NOTE: The masks will fall from the mask box.

G. Procedure

SUBTASK 35-21-11-160-001

- (1) To clean an oxygen mask [2] assembly, do these steps:
 - (a) Mix a solution of general purpose household detergent cleaner, B00541 with warm water, in accordance with the manufacture's instructions.
 - (b) Apply the solution to the facepiece with a cotton wiper, G00034 or a seal, G02186.
 - (c) Rinse the general purpose household detergent cleaner, B00541 from the oxygen mask with warm water.
 - (d) Make sure the oxygen mask is completely dry.

SUBTASK 35-21-11-400-002

(2) To replace the clean oxygen mask into the PSU, do the task:

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(Attendant /Crew Rest/ Lavatory Oxygen PSU Oxygen Mask Packing, TASK 35-21-11-400-803).

SUBTASK 35-21-11-410-007

- (3) To close the oxygen PSU mask box door, do the steps that follow:
 - (a) Support the masks put in the mask box with the outstretched fingers of one hand while the door is raised toward the closed position with the other.
 - (b) Reset door latch/actuator by pivoting the lever arm until it engages with the magnet.
 - (c) As the door approaches the closed position, remove the hand supporting the packed mask assemblies (the masks will fall against the mask box door).
 - (d) When optional temporary rubber bands are used, do these steps:
 - 1) With the door slightly open, use a tool to cut the optional rubber bands retaining the packed mask assemblies, and remove the rubber band.
 - (e) Test the door to confirm the correct packing of the masks:
 - From an almost closed position, swing door approximately 2 inches down and up several times.
 - 2) Observe that the masks and hose bundle move with the door to assure that the masks will free fall.
 - Use a flashlight and mirror to make sure that the mask hoses do not become pinched between the door rib and the lower flange of the oxygen mask box shell.



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.

(f) Close the door until the door latch engages.

NOTE: A misfaired door can show that some items are pinched between the door and the oxygen box or between the door and the actuator mounting bracket.

- 1) Visually examine the misfairing of the door to the box.
- 2) Make sure that a pinching condition does not exist.

SUBTASK 35-21-11-440-009

(4) Oxygen Generator equipped PSUs;

Activate the oxygen generator firing mechanism (safety pin removed) after maintenance on the Oxygen PSU. Do this task; Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Firing Mechanism Activation, TASK 35-21-11-440-801

ARO 011-999

(5) Oxygen Cylinder (CDS) equipped Lavatory PSUs;

Activate the oxygen cylinder actuator (safety pin removed) after maintenance on the Oxygen PSU. Do this task: Oxygen Cylinder (CDS) Activation, TASK 35-21-02-440-801

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SUBTASK 35-21-11-410-008

(6) When ceiling access to a PSU is no longer required do the appropriate step that follows:

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- (a) For PSUs located in the galley and overdoor ceilings, close the access panel containing the PSU (Overdoor Panel Installation/Closing, TASK 25-21-08-400-801).
- (b) For PSUs located in the cross-aisle and lavatory ceilings, close the access panel adjacent to the PSU (Lowered Ceiling Panel Installation, TASK 25-21-07-400-801).



TASK 35-21-11-400-803

12. Attendant /Crew Rest/ Lavatory Oxygen PSU Oxygen Mask Packing

NOTE: This procedure is a scheduled maintenance task.

A. General

- (1) This procedure packs the oxygen masks found in the following Oxygen Passenger Service Unit (PSU) positions:
 - (a) Attendant seating areas
 - (b) Main Deck Crew Rests
 - (c) Lavatories
 - (d) Galleys

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Preparation

NOTE: Reference the figure:

Attendant / Lavatory Oxygen PSU Location/Figure 202

SUBTASK 35-21-11-800-023

- (1) Get access to the appropriate Attendant / Lavatory Oxygen Passenger Service Units (PSUs) as follows:
 - (a) Attendant / Lavatory Oxygen PSUs can be found in the following locations:
 - 1) Attendant seating locations
 - 2) Galleys

D. Procedure

NOTE: Reference the figure:

Attendant / Lavatory Oxygen PSU Mask Packing/Figure 210 or Lavatory Oxygen PSU Mask Packing/Figure 211

SUBTASK 35-21-11-420-004

- (1) To pack an Attendant or Lavatory oxygen mask [2], do the steps that follow:
 - (a) Put the headstrap lengthwise onto the open bag.
 - (b) Fold the reservoir bag into thirds and put over the headstrap.
 - (c) Fold the bag and headstrap twice.
 - (d) Coil the oxygen mask hose:
 - 1) Reserve enough hose length from the manifold to place mask in box and the mask hose into the doubler assembly inside the oxygen mask compartment if applicable.
 - 2) Stop coiling the hose slightly before the bag.

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ARO ALL

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3) OPTIONAL; Clip hose with coil retainers. Clip first three coils from manifold. Clip last three coils before mask lanyard or mask. Clip first three hose bundle to last three hose bundle.

NOTE: Additional coil retainers may be used to secure a large bundle of hoses. However, the use of retainers must be kept to a minimum. Loose hoses in the middle of the final bundle are acceptable.

- 4) Temporarily rubber band the hose coils, bag, and mask together.
- 5) Verify the mask lanyards are not tangled in hose coil.
- 6) If applicable, use the doubler assembly to hold the oxygen hose and lanyard.
- (e) Pack the mask streamers:
 - 1) Coil the cord for one mask streamer around the out stretched fingers of one hand, beginning approximately 1 to 2 inches below the mask box door.
 - With the coiled cords remaining engaged on the fingers, gather the warning streamer into a bundle.
 - Gather the streamer bundle together with the cord bundle, and place inside the corresponding mask cup, and allow it to be contained by the rubber band (optional).
 - NOTE: If there is only one mask streamer for the oxygen box assembly, it may be attached to either mask.
 - 4) Repeat these steps for the remaining mask streamers.

SUBTASK 35-21-11-420-005

(2) To install the packed mask assembly into the PSU do the following task:

Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Mask Installation, TASK 35-21-11-400-802



TASK 35-21-11-000-803

13. Attendant/Crew Rest/ Lavatory Oxygen PSU Removal

A. General

- (1) This procedure removes the following Attendant / Lavatory Oxygen passenger service units (PSUs).
 - (a) Attendant seating areas
 - (b) Main Deck Crew Rests
 - (c) Lavatories
 - (d) Galleys

B. References

Reference	Title
25-21-07-000-801	Lowered Ceiling Panel Removal (P/B 401)
25-21-08-000-801	Overdoor Panel Opening/Removal (P/B 201)
35-21-02-040-801	Oxygen Cylinder (CDS) Deactivation (P/B 201)
Location Zones	

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

ARO ALL



D. Preparation

NOTE: Reference the figures:

Attendant / Lavatory Oxygen PSU Location/Figure 202

SUBTASK 35-21-11-800-039

- (1) Access the appropriate Attendant / Lavatory Oxygen Passenger Service Units (PSUs):
 - Attendant / Lavatory Oxygen PSUs can be found in the following locations:
 - Attendant seating locations
 - 2) Lavatories
 - Galleys

SUBTASK 35-21-11-865-008

(2) Open these circuit breakers and install safety tags:

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	3	C35403	L PAX OXY
Α	4	C35405	C PAX OXY
Α	5	C35404	R PAX OXY
Н	3	C35606	CHAN A OXY DEPLOY
Н	4	C35607	CHAN B OXY DEPLOY

SUBTASK 35-21-11-010-012

- When maintenance access to an Attendant / Lavatory Oxygen PSU is required:
 - For Attendant / Lavatory PSUs located in the cross-aisle and lavatory ceilings, lower the access panel adjacent to the PSU (Lowered Ceiling Panel Removal, TASK 25-21-07-000-801).
 - For Attendant / Lavatory PSUs located in the galley and overdoor ceilings, lower the access panel containing the PSU (Overdoor Panel Opening/Removal, TASK 25-21-08-000-801).

SUBTASK 35-21-11-040-011



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.

Oxygen Generator equipped PSUs;

Deactivate the oxygen generator firing mechanism (safety pin installed) before maintenance on the Oxygen PSU. Do this task; Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Firing Mechanism Deactivation, TASK 35-21-11-040-801

NOTE: Deactivation of a fired (expended) generator is not necessary. Once the expended generator has cooled, it can be safely handled and processed.

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(5) Oxygen Cylinder (CDS) equipped Lavatory PSUs;

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ARO 011-999 (Continued)

Deactivate the oxygen cylinder actuator (safety pin installed) before maintenance on the Oxygen PSU. Do this task: Oxygen Cylinder (CDS) Deactivation, TASK 35-21-02-040-801

NOTE: Deactivation of an empty (expended) oxygen cylinder is not necessary.

ARO ALL

E. Procedure

SUBTASK 35-21-11-020-003

- (1) To remove the oxygen PSU, do the steps that follow:
 - (a) Disconnect the electrical connector.
 - (b) If required; remove the screws attaching the PSU to the ceiling panel.
 - (c) Remove the oxygen PSU.

SUBTASK 35-21-11-400-003

(2) When required, do the task:

Attendant/Crew Rest/ Lavatory Oxygen PSU Installation, TASK 35-21-11-400-804

—— END OF TASK ——

TASK 35-21-11-400-804

14. Attendant/Crew Rest/ Lavatory Oxygen PSU Installation

A. General

- (1) This procedure installs the following Attendant / Lavatory Oxygen passenger service units (PSUs).
 - (a) Attendant seating areas
 - (b) Flight Crew Rest
 - (c) Lavatories
 - (d) Galleys

B. References

Reference	Title
25-21-07-400-801	Lowered Ceiling Panel Installation (P/B 401)
25-21-08-400-801	Overdoor Panel Installation/Closing (P/B 201)
35-21-00-710-801	Oxygen Box Door Latch/Actuator Operational Test (P/B 501)
35-21-02-040-801	Oxygen Cylinder (CDS) Deactivation (P/B 201)
35-21-02-210-801	Visual Inspection of the Oxygen Cylinder (CDS) (P/B 601)
35-21-02-440-801	Oxygen Cylinder (CDS) Activation (P/B 201)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Preparation

NOTE: Reference the figure:

Attendant / Lavatory Oxygen PSU Location/Figure 202

SUBTASK 35-21-11-800-028

(1) Get access to the appropriate Attendant / Lavatory Oxygen Passenger Service Units (PSUs) as follows:

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- (a) Attendant / Lavatory Oxygen PSUs can be found in the following locations:
 - 1) Attendant seating locations
 - 2) Galleys

SUBTASK 35-21-11-865-009

(2) Open these circuit breakers and install safety tags:

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	3	C35403	L PAX OXY
Α	4	C35405	C PAX OXY
Α	5	C35404	R PAX OXY
Н	3	C35606	CHAN A OXY DEPLOY
Н	4	C35607	CHAN B OXY DEPLOY

SUBTASK 35-21-11-040-012



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.

(3) Oxygen Generator equipped PSUs;

Deactivate the oxygen generator firing mechanism (safety pin installed) before maintenance on the Oxygen PSU. Do this task; Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Firing Mechanism Deactivation, TASK 35-21-11-040-801

<u>NOTE</u>: Deactivation of a fired (expended) generator is not necessary. Once the expended generator has cooled, it can be safely handled and processed.

ARO 011-999

(4) Oxygen Cylinder (CDS) equipped Lavatory PSUs;

Deactivate the oxygen cylinder actuator (safety pin installed) before maintenance on the Oxygen PSU. Do this task: Oxygen Cylinder (CDS) Deactivation, TASK 35-21-02-040-801

NOTE: Deactivation of an empty (expended) oxygen cylinder is not necessary.

ARO ALL

E. Procedure

SUBTASK 35-21-11-400-004

- (1) To install an Attendant / Lavatory oxygen PSU, do the steps that follow:
 - (a) Place the PSU into position in the ceiling panel
 - (b) If required; install the screws securing the PSU to the ceiling panel.
 - (c) Connect the electrical connector.

SUBTASK 35-21-11-440-008

(2) Oxygen Generator equipped PSUs;

Activate the oxygen generator firing mechanism (safety pin removed) after maintenance on the Oxygen PSU. Do this task; Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Firing Mechanism Activation, TASK 35-21-11-440-801

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ARO 011-999

(3) Oxygen Cylinder (CDS) equipped Lavatory PSUs;

Activate the oxygen cylinder actuator (safety pin removed) after maintenance on the Oxygen PSU. Do this task: Oxygen Cylinder (CDS) Activation, TASK 35-21-02-440-801

ARO ALL

SUBTASK 35-21-11-211-006

(4) Oxygen Generator equipped PSUs;

Make sure that the release pin is installed correctly (Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Firing Mechanism Detailed Visual Inspection, TASK 35-21-11-200-801).

ARO 011-999

(5) Oxygen Cylinder (CDS) equipped Lavatory PSUs;

Make sure the safety pin is removed (Visual Inspection of the Oxygen Cylinder (CDS), TASK 35-21-02-210-801)

ARO ALL

SUBTASK 35-21-11-410-004

- (6) When ceiling access to a PSU is no longer required do the appropriate step that follows:
 - (a) For PSUs located in the galley and overdoor ceilings, close the access panel containing the PSU (Overdoor Panel Installation/Closing, TASK 25-21-08-400-801).
 - (b) For PSUs located in the cross-aisle and lavatory ceilings, close the access panel adjacent to the PSU (Lowered Ceiling Panel Installation, TASK 25-21-07-400-801).

SUBTASK 35-21-11-865-010

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

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	3	C35403	L PAX OXY
Α	4	C35405	C PAX OXY
Α	5	C35404	R PAX OXY
Н	3	C35606	CHAN A OXY DEPLOY
Н	4	C35607	CHAN B OXY DEPLOY

SUBTASK 35-21-11-710-001

 To test the integrity of the Passenger Oxygen System, do this task: Oxygen Box Door Latch/Actuator Operational Test, TASK 35-21-00-710-801.



TASK 35-21-11-000-804

15. Attendant/Crew Rest/ Lavatory Oxygen PSU Mask Box Door Latch Removal

A. General

- (1) This procedure removes the Oxygen Passenger Service Unit (PSU) mask door latch from the following PSU positions:
 - (a) Attendant seating areas
 - (b) Main Deck Crew Rests
 - (c) Lavatories

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(d) Galleys

B. References

C.

Reference	Title		
25-21-07-000-801	Lowered Ceiling Panel Removal (P/B 401)		
25-21-08-000-801	Overdoor Panel Opening/Removal (P/B 201)		
35-21-02-040-801	Oxygen Cylinder (CDS) Deactivation (P/B 201)		
Tools/Equipment			
Reference	Description		
STD-4241	Rod, 0.090 in (2.29 mm) to 0.125 in (3.18 mm) Diameter, 6 in		

Location Zones

Zone	Area
200	Upper Half of Fuselage

E. Preparation

NOTE: Reference the figure:

Attendant / Lavatory Oxygen PSU Location/Figure 202

(152 mm) length

SUBTASK 35-21-11-865-011

(1) Open these circuit breakers and install safety tags:

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	3	C35403	L PAX OXY
Α	4	C35405	C PAX OXY
Α	5	C35404	R PAX OXY
Н	3	C35606	CHAN A OXY DEPLOY
Н	4	C35607	CHAN B OXY DEPLOY

SUBTASK 35-21-11-800-030

- Get access to the appropriate Attendant / Lavatory Oxygen Passenger Service Units (PSUs) as follows:
 - Attendant / Lavatory Oxygen PSUs can be found in the following locations:
 - Attendant seating locations
 - 2) Galleys

SUBTASK 35-21-11-010-013

- To open an oxygen PSU oxygen mask box for maintenance, do the steps that follow:
 - Insert the 0.090 in to 0.125 in diameter 6 in length rod, STD-4241 through the access hole in the PSU oxygen mask box door to disengage the door latch/actuator.
 - (b) Open the PSU oxygen mask box door.

NOTE: The masks will fall from the mask box.

SUBTASK 35-21-11-010-014

- When maintenance access to an Attendant / Lavatory Oxygen PSU is required:
 - For Attendant / Lavatory PSUs located in the cross-aisle and lavatory ceilings, lower the access panel adjacent to the PSU (Lowered Ceiling Panel Removal, TASK 25-21-07-000-801).

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(b) For Attendant / Lavatory PSUs located in the galley and overdoor ceilings, lower the access panel containing the PSU (Overdoor Panel Opening/Removal, TASK 25-21-08-000-801).

SUBTASK 35-21-11-040-013



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) Oxygen Generator equipped PSUs;

Deactivate the oxygen generator firing mechanism (safety pin installed) before maintenance on the Oxygen PSU. Do this task; Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Firing Mechanism Deactivation, TASK 35-21-11-040-801

<u>NOTE</u>: Deactivation of a fired (expended) generator is not necessary. Once the expended generator has cooled, it can be safely handled and processed.

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(6) Oxygen Cylinder (CDS) equipped Lavatory PSUs;

Deactivate the oxygen cylinder actuator (safety pin installed) before maintenance on the Oxygen PSU. Do this task: Oxygen Cylinder (CDS) Deactivation, TASK 35-21-02-040-801

NOTE: Deactivation of an empty (expended) oxygen cylinder is not necessary.

ARO ALL

F. Procedure

NOTE: Reference the figure:

Attendant / Lavatory Oxygen PSU Mask Door Latch Removal / Installation/Figure 212

SUBTASK 35-21-11-020-004

- (1) To remove the oxygen mask door latch actuator [4] from an oxygen PSU, do the steps that follow:
 - (a) Disconnect the electrical receptacle [3].
 - (b) Loosen the screws [2].
 - (c) Disconnect the wiring from the electrical receptacle [3].
 - (d) Be careful to not damage the oxygen mask while you work in the oxygen box.
 - (e) Remove the screws [5] from the door latch actuator [4].
 - (f) Remove the door latch actuator [4].

NOTE: The electrical wiring can be removed through the access hole when you remove the door latch actuator.

 END	OF	TASK	
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TASK 35-21-11-400-805

16. Attendant/Crew Rest/ Lavatory Oxygen PSU Mask Box Door Latch Installation

A. General

- This procedure Installs the Oxygen Passenger Service Unit (PSU) mask door latch into the following PSU positions:
 - (a) Attendant seating areas
 - (b) Main Deck Crew Rests
 - (c) Lavatorys
 - (d) Galleys

References

Reference	Title
25-21-07-000-801	Lowered Ceiling Panel Removal (P/B 401)
25-21-07-400-801	Lowered Ceiling Panel Installation (P/B 401)
25-21-08-000-801	Overdoor Panel Opening/Removal (P/B 201)
25-21-08-400-801	Overdoor Panel Installation/Closing (P/B 201)
35-21-00-710-801	Oxygen Box Door Latch/Actuator Operational Test (P/B 501)
35-21-02-440-801	Oxygen Cylinder (CDS) Activation (P/B 201)
Tools/Equipment	

C. 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

D. Location Zones

Zone	Area	
200	Upper Half of Fuselage	

E. Preparation

NOTE: Reference the figure:

Attendant / Lavatory Oxygen PSU Location/Figure 202

SUBTASK 35-21-11-800-032

- Get access to the appropriate Attendant / Lavatory Oxygen Passenger Service Units (PSUs) as follows:
 - Attendant / Lavatory Oxygen PSUs can be found in the following locations:
 - Attendant seating locations
 - 2) Galleys

SUBTASK 35-21-11-010-015

- When maintenance access to an Attendant / Lavatory Oxygen PSU is required:
 - For Attendant / Lavatory PSUs located in the cross-aisle and lavatory ceilings, lower the access panel adjacent to the PSU (Lowered Ceiling Panel Removal, TASK 25-21-07-000-801).
 - For Attendant / Lavatory PSUs located in the galley and overdoor ceilings, lower the access panel containing the PSU (Overdoor Panel Opening/Removal, TASK 25-21-08-000-801).

EFFECTIVITY ARO ALL



SUBTASK 35-21-11-010-016

- (3) To open an oxygen PSU oxygen mask box for maintenance, do the steps that follow:
 - (a) Insert the 0.090 in to 0.125 in diameter 6 in length rod, STD-4241 through the access hole in the PSU oxygen mask box door to disengage the door latch/actuator.
 - (b) Open the PSU oxygen mask box door.

NOTE: The masks will fall from the mask box.

F. Procedure

NOTE: Reference the figure:

Attendant / Lavatory Oxygen PSU Mask Door Latch Removal / Installation/Figure 212

SUBTASK 35-21-11-420-007

- (1) To install the oxygen mask door latch actuator [4] into an oxygen PSU, do the steps that follow:
 - (a) Put the electrical wiring through the access hole in the oxygen box.
 - (b) Connect the electrical wiring to the electrical receptacle [3].
 - (c) Be careful to not damage the hanging oxygen mask while you work in the oxygen box.
 - (d) Install the screws [2] to attach the door latch actuator [4].
 - (e) Tighten the screws [2], into the oxygen box.
 - (f) Close the oxygen box door.
 - (g) Visually examine the misfairing of the door to the box
 - NOTE: A misfaired door can show that some items are pinched between the door and the oxygen box or between the door and the actuator mounting bracket.
 - (h) Make sure that a pinching condition does not exist.
 - Connect the electrical receptacle [3].

SUBTASK 35-21-11-420-008

(2) To repack the oxygen masks into the PSU, do this task: Attendant /Crew Rest/ Lavatory Oxygen PSU Oxygen Mask Packing, TASK 35-21-11-400-803.

SUBTASK 35-21-11-440-010

(3) Oxygen Generator equipped PSUs;

Activate the oxygen generator firing mechanism (safety pin removed) after maintenance on the Oxygen PSU. Do this task; Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Firing Mechanism Activation, TASK 35-21-11-440-801

ARO 011-999

(4) Oxygen Cylinder (CDS) equipped Lavatory PSUs;

Activate the oxygen cylinder actuator (safety pin removed) after maintenance on the Oxygen PSU. Do this task: Oxygen Cylinder (CDS) Activation, TASK 35-21-02-440-801

ARO ALL

SUBTASK 35-21-11-410-005

- (5) When ceiling access to a PSU is no longer required do the appropriate step that follows:
 - (a) For PSUs located in the galley and overdoor ceilings, close the access panel containing the PSU (Overdoor Panel Installation/Closing, TASK 25-21-08-400-801).
 - (b) For PSUs located in the cross-aisle and lavatory ceilings, close the access panel adjacent to the PSU (Lowered Ceiling Panel Installation, TASK 25-21-07-400-801).

ARO ALL



SUBTASK 35-21-11-410-009

- (6) To close the oxygen PSU mask box door, do the steps that follow:
 - (a) Support the masks put in the mask box with the outstretched fingers of one hand while the door is raised toward the closed position with the other.
 - (b) Reset door latch/actuator by pivoting the lever arm until it engages with the magnet.
 - (c) As the door approaches the closed position, remove the hand supporting the packed mask assemblies (the masks will fall against the mask box door).
 - (d) When optional temporary rubber bands are used, do these steps:
 - 1) With the door slightly open, use a tool to cut the optional rubber bands retaining the packed mask assemblies, and remove the rubber band.
 - (e) Test the door to confirm the correct packing of the masks:
 - 1) From an almost closed position, swing door approximately 2 inches down and up several times.
 - 2) Observe that the masks and hose bundle move with the door to assure that the masks will free fall.
 - Use a flashlight and mirror to make sure that the mask hoses do not become pinched between the door rib and the lower flange of the oxygen mask box shell.



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.

(f) Close the door until the door latch engages.

NOTE: A misfaired door can show that some items are pinched between the door and the oxygen box or between the door and the actuator mounting bracket.

- 1) Visually examine the misfairing of the door to the box.
- 2) Make sure that a pinching condition does not exist.

SUBTASK 35-21-11-865-012

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

Standby Power Management Panel, P310

Row	Col	<u>Number</u>	<u>Name</u>
Α	3	C35403	L PAX OXY
Α	4	C35405	C PAX OXY
Α	5	C35404	R PAX OXY
Н	3	C35606	CHAN A OXY DEPLOY
Н	4	C35607	CHAN B OXY DEPLOY

SUBTASK 35-21-11-710-003

EFFECTIVITY

ARO ALL

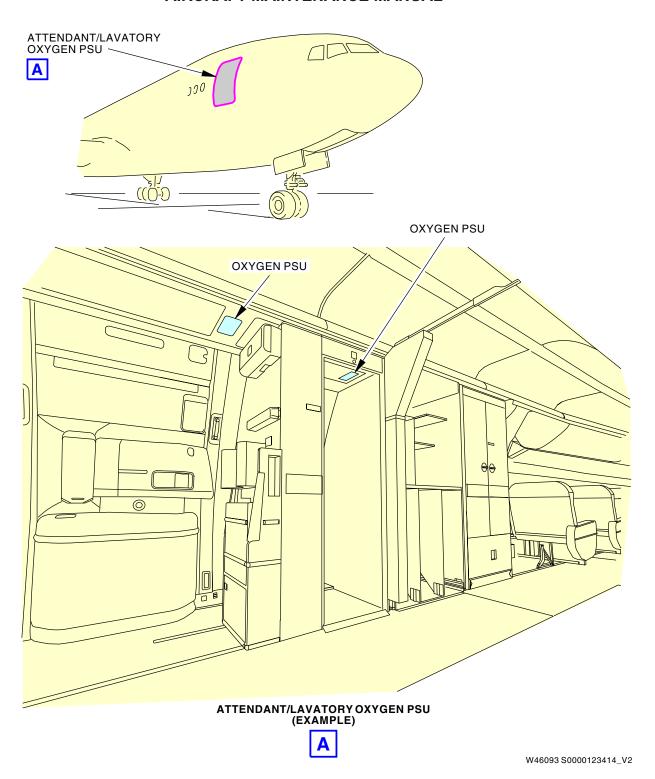
(8) To test the integrity of the Passenger Oxygen Door Latch, do this task:Oxygen Box Door Latch/Actuator Operational Test, TASK 35-21-00-710-801.

 END	OF	TASK	

35-21-11

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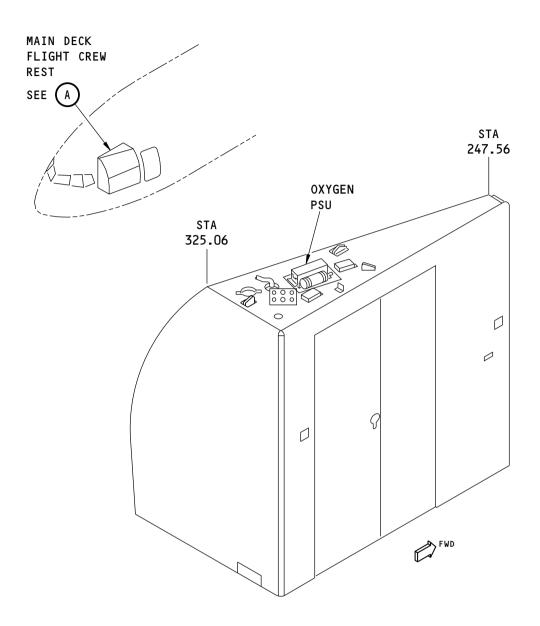
Attendant / Lavatory Oxygen PSU Location Figure 202/35-21-11-990-807 (Sheet 1 of 2)

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MAIN DECK FLIGHT CREW REST (EXAMPLE)



2039500 S0000411539_V1

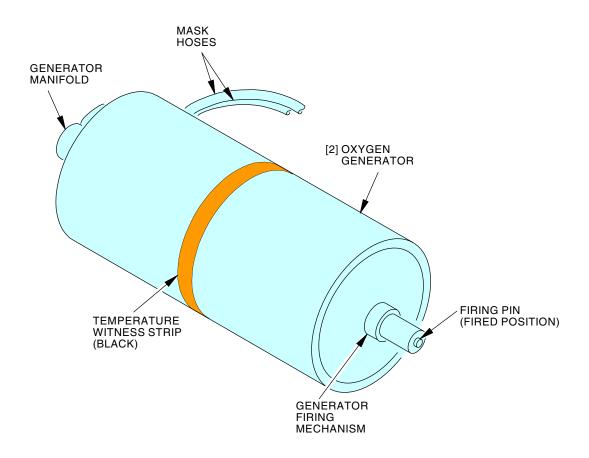
Attendant / Lavatory Oxygen PSU Location Figure 202/35-21-11-990-807 (Sheet 2 of 2)

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OXYGEN GENERATOR FIRED (EXPENDED) (EXAMPLE)

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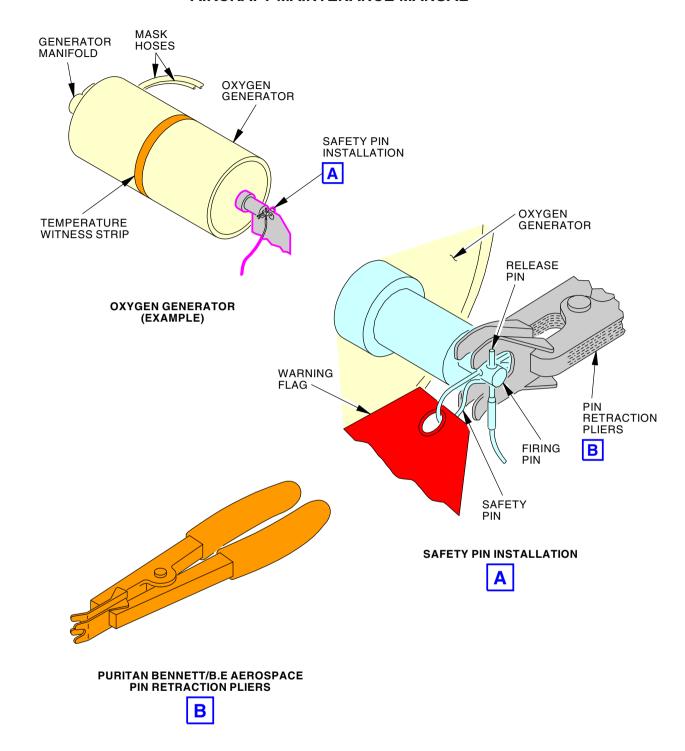
Attendant / Lavatory Oxygen PSU Generator Fired Inspection Figure 203/35-21-11-990-808

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W44715 S0000118441_V2

Attendant / Lavatory Oxygen PSU Generator Firing Mechanism Activation / Deactivation Figure 204/35-21-11-990-809 (Sheet 1 of 2)

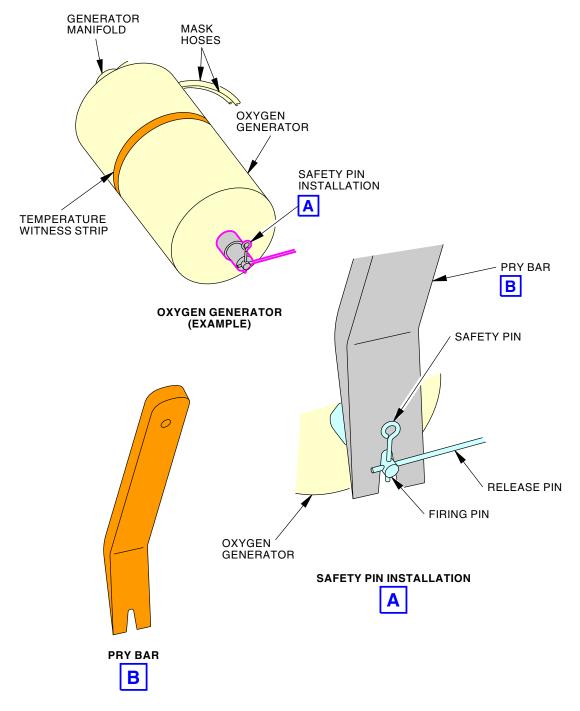
EFFECTIVITY

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2571575 S0000617297_V1

Attendant / Lavatory Oxygen PSU Generator Firing Mechanism Activation / Deactivation Figure 204/35-21-11-990-809 (Sheet 2 of 2)

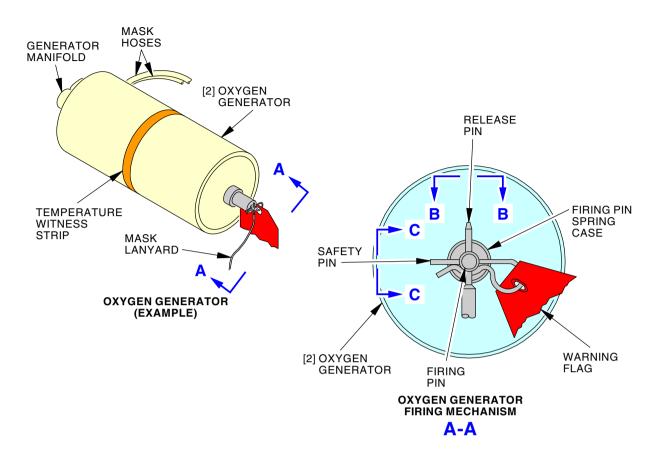
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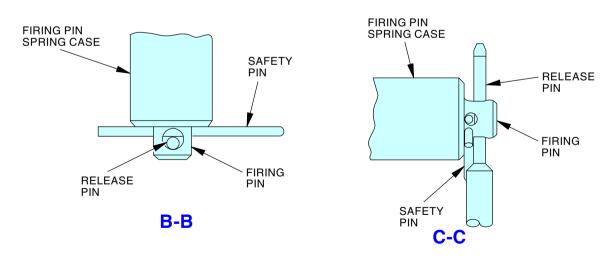
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W44691 S0000122056_V3

Attendant / Lavatory Oxygen PSU Generator Firing Mechanism Inspection Figure 205/35-21-11-990-810

EFFECTIVITY

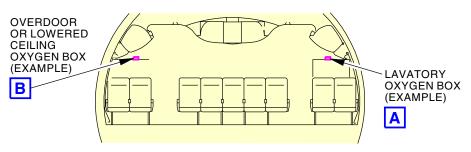
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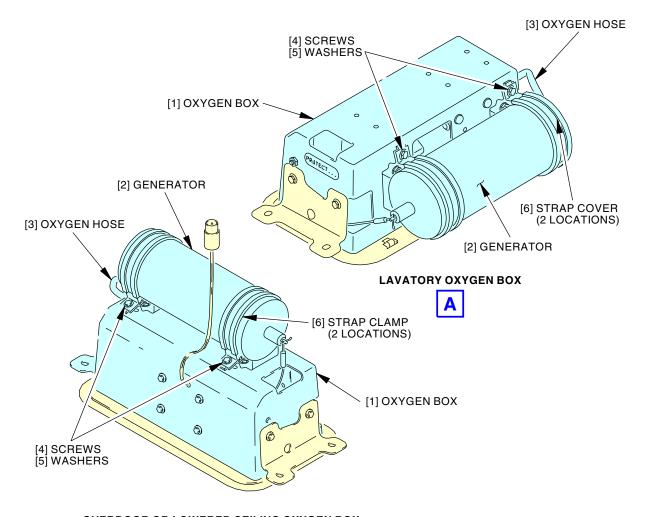
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PASSENGER COMPARTMENT



OVERDOOR OR LOWERED CEILING OXYGEN BOX



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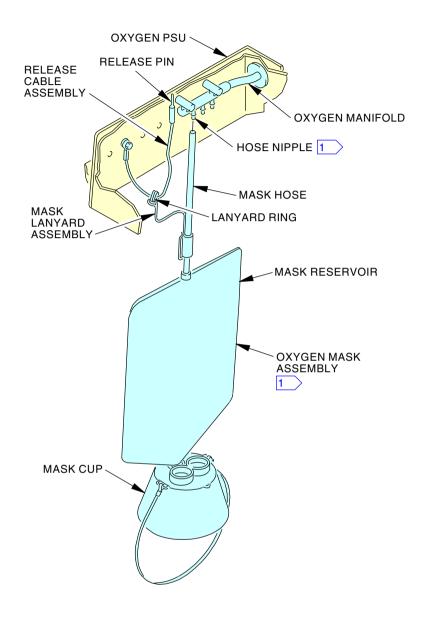
Attendant / Lavatory PSU Generator Removal / Installation Figure 206/35-21-11-990-815

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CHEMICAL OXYGEN MASK (EXAMPLE)



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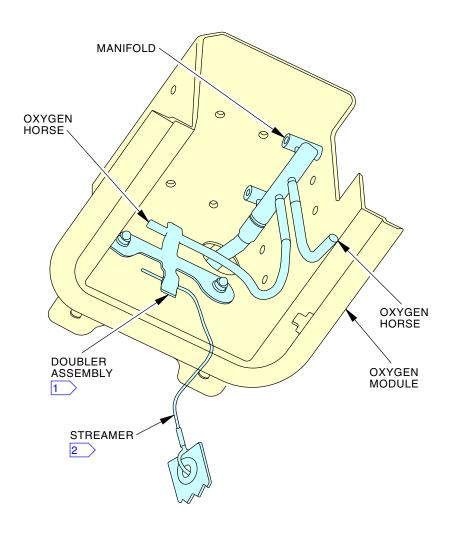
Attendant / Lavatory Oxygen PSU Mask (Oxygen Generator) Removal / Installation Figure 207/35-21-11-990-811 (Sheet 1 of 2)

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GENERATOR MANIFOILD



1 AIRPLANES WITH DOUBLER ASSEMBLY

USE MINIMUM LENGTH OF STREAMER CORD BETWEEN OXYGEN MASK AND DOUBLER ASSEMBLY

1559660 S0000287324_V2

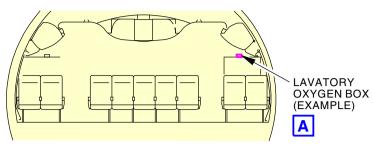
Attendant / Lavatory Oxygen PSU Mask (Oxygen Generator) Removal / Installation Figure 207/35-21-11-990-811 (Sheet 2 of 2)

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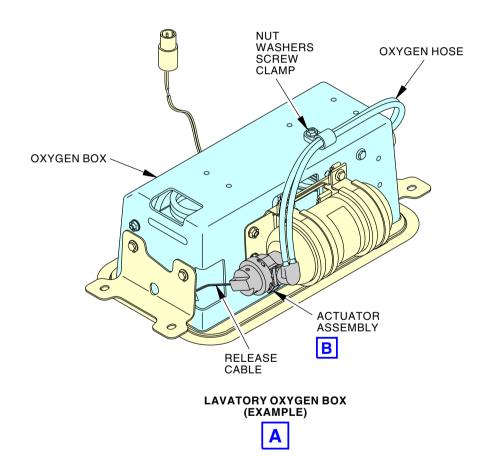
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PASSENGER COMPARTMENT (EXAMPLE)



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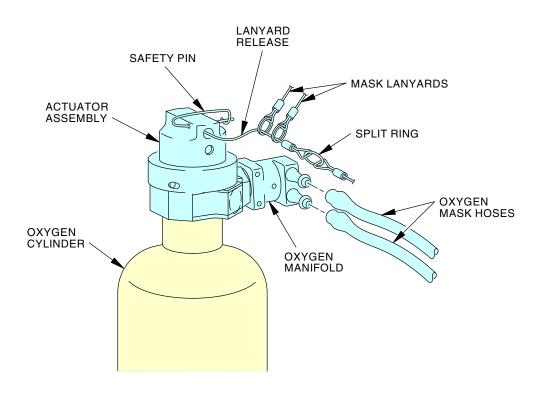
Lavatory Oxygen PSU Mask (Oxygen Cylinder CDS) Removal / Installation Figure 208/35-21-11-990-817 (Sheet 1 of 2)

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ACTUATOR ASSEMBLY (EXAMPLE)



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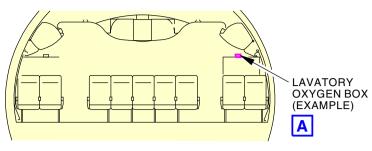
Lavatory Oxygen PSU Mask (Oxygen Cylinder CDS) Removal / Installation Figure 208/35-21-11-990-817 (Sheet 2 of 2)

ARO ALL

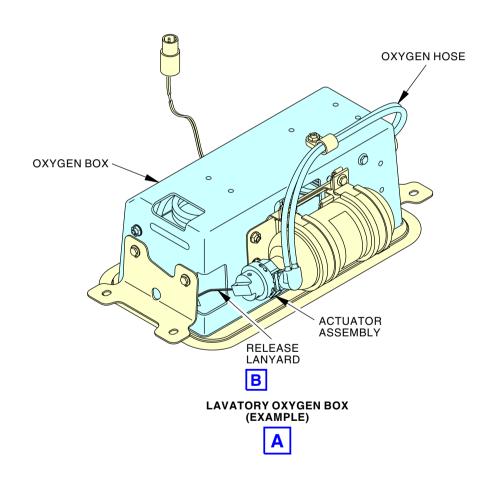
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PASSENGER COMPARTMENT (EXAMPLE)



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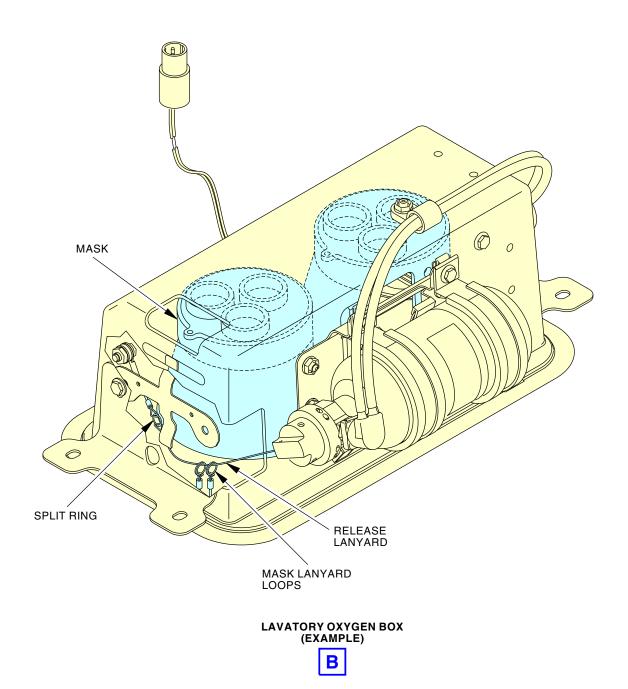
Lavatory Oxygen PSU Mask (Oxygen Cylinder CDS) Lanyard Removal / Installation Figure 209/35-21-11-990-819 (Sheet 1 of 2)

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2434765 S0000563868_V2

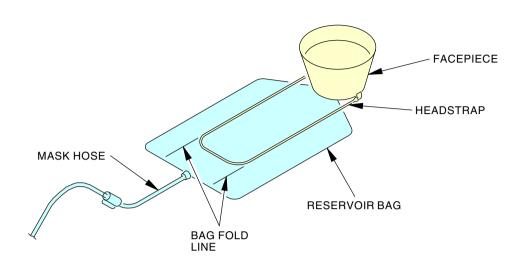
Lavatory Oxygen PSU Mask (Oxygen Cylinder CDS) Lanyard Removal / Installation Figure 209/35-21-11-990-819 (Sheet 2 of 2)

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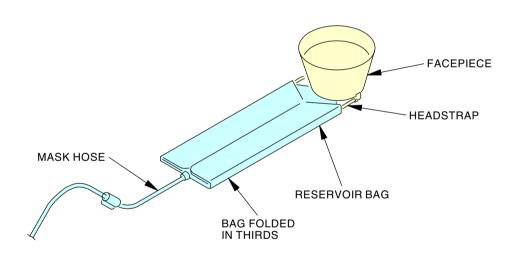
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STEP 1



STEP 2

W45658 S0000117718_V2

Attendant / Lavatory Oxygen PSU Mask Packing Figure 210/35-21-11-990-812 (Sheet 1 of 4)

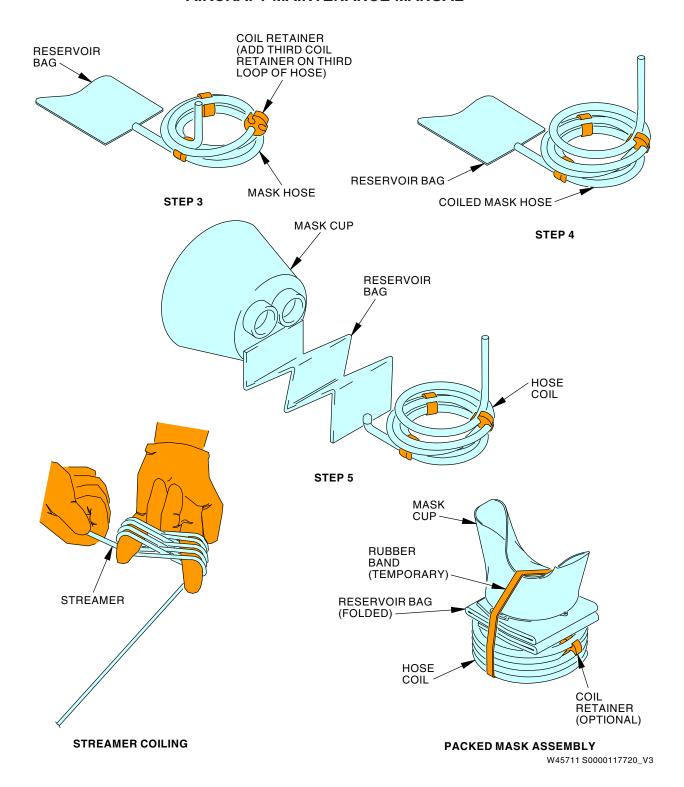
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Attendant / Lavatory Oxygen PSU Mask Packing Figure 210/35-21-11-990-812 (Sheet 2 of 4)

EFFECTIVITY

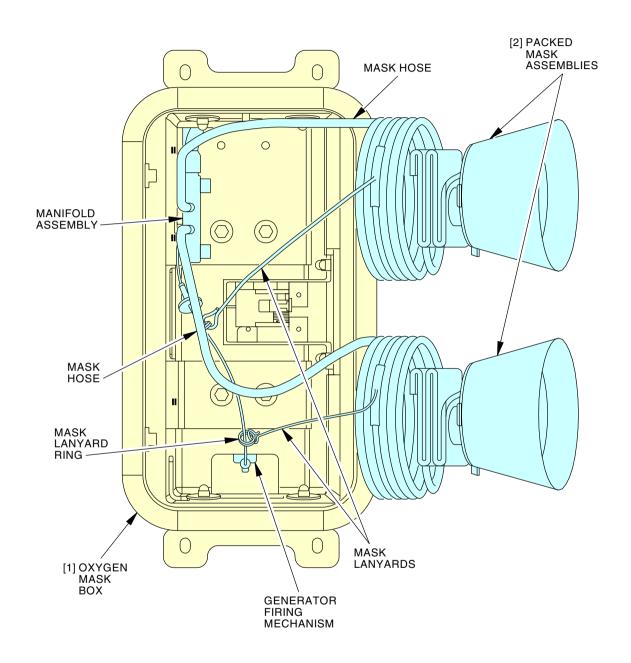
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W45594 S0000117712_V2

Attendant / Lavatory Oxygen PSU Mask Packing Figure 210/35-21-11-990-812 (Sheet 3 of 4)

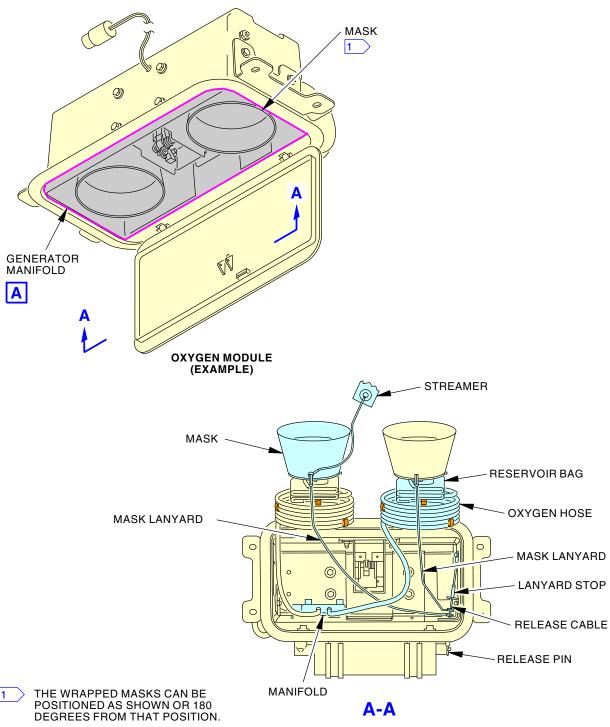
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1553997 S0000286274_V2

Attendant / Lavatory Oxygen PSU Mask Packing Figure 210/35-21-11-990-812 (Sheet 4 of 4)

EFFECTIVITY

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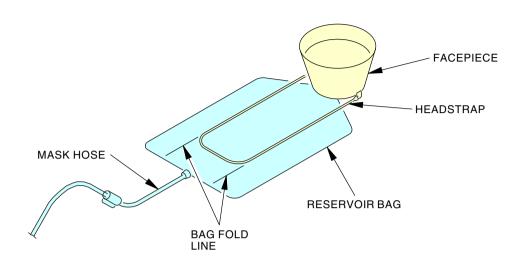
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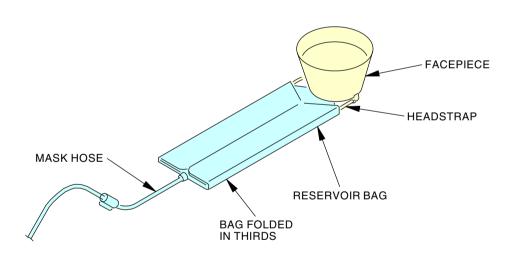
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STEP 1



STEP 2

W45658 S0000117718_V2

Lavatory Oxygen PSU Mask Packing Figure 211/35-21-11-990-818 (Sheet 1 of 3)

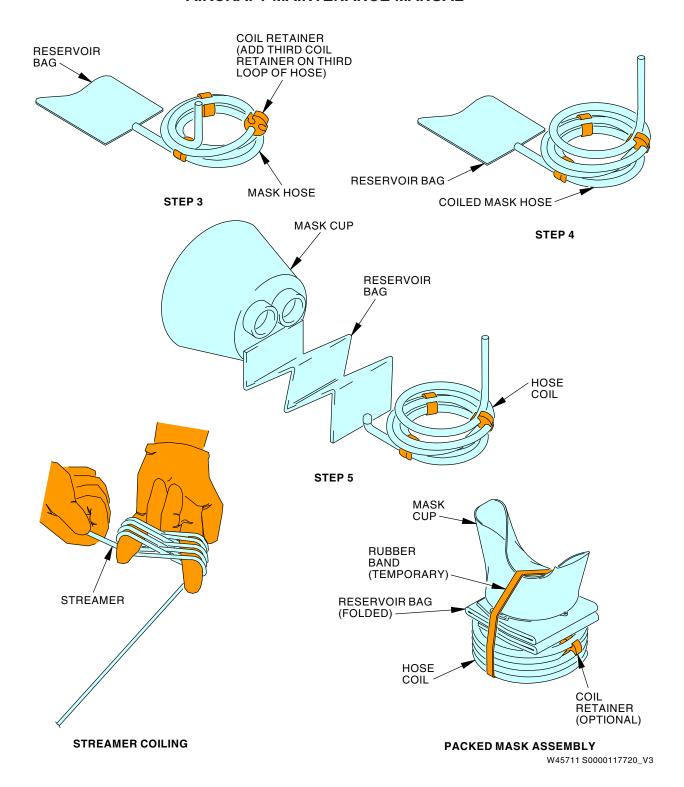
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Lavatory Oxygen PSU Mask Packing Figure 211/35-21-11-990-818 (Sheet 2 of 3)

EFFECTIVITY

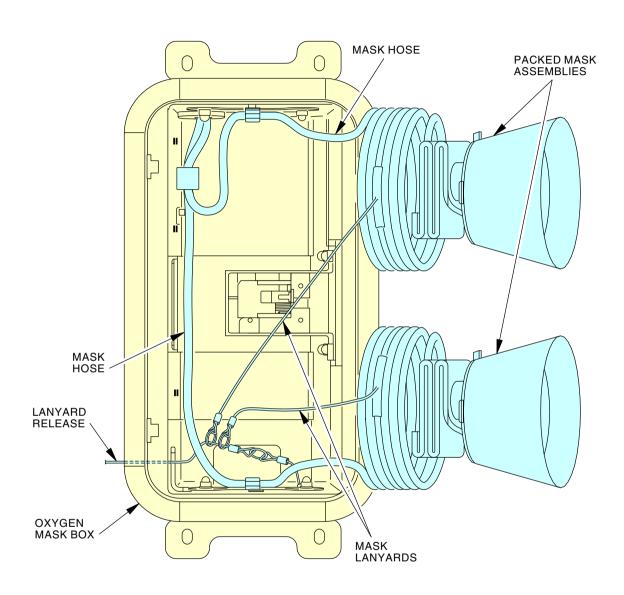
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2359419 S0000539471_V2

Lavatory Oxygen PSU Mask Packing Figure 211/35-21-11-990-818 (Sheet 3 of 3)

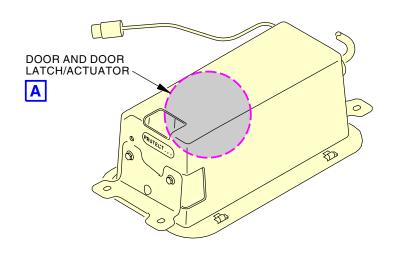
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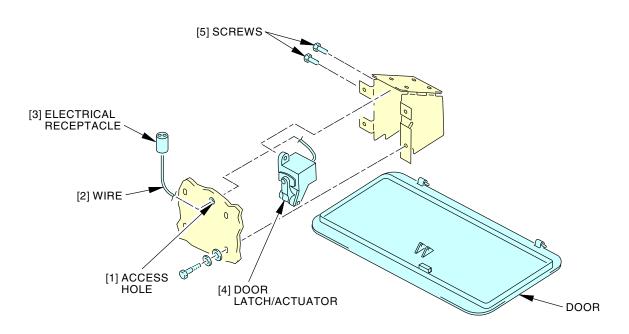
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ATTENDANT/LAVATORY OXYGEN MASK BOX (EXAMPLE)



DOOR AND DOOR LATCH/ACTUATOR

NOTE:

OXYGEN GENERATOR IS NOT SHOWN.

W45633 S0000122148_V2

Attendant / Lavatory Oxygen PSU Mask Door Latch Removal / Installation Figure 212/35-21-11-990-814

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35-21-11

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MAIN CABIN CENTER OXYGEN PSU - MAINTENANCE PRACTICES

1. General

- A. This procedure describes the maintenance tasks for the main cabin center mounted oxygen passenger service units (PSUs).
- B. The following Main Cabin Center Oxygen PSU maintenance tasks are provided:
 - (1) Oxygen Generator Firing Mechanism Deactivation
 - (2) Oxygen Generator Firing Mechanism Activation
 - (3) Oxygen Generator Firing Mechanism Detailed Visual Inspection
 - (4) Oxygen Generator Removal
 - (5) Oxygen Generator Installation
 - (6) Oxygen Generator Check
 - (7) Oxygen Mask Removal
 - (8) Oxygen Mask Installation
 - (9) Oxygen Mask Inspection
 - (10) Oxygen Mask Cleaning
 - (11) Oxygen Mask Packing
 - (12) Oxygen PSU Removal
 - (13) Oxygen PSU Installation
 - (14) Oxygen PSU Mask Box Door Latch Removal
 - (15) Oxygen PSU Mask Box Door Latch Installation
- C. Do not conduct any maintenance operations on an Oxygen PSU without first deactivating each oxygen generators firing mechanism.

TASK 35-21-12-040-801

2. Main Cabin Center Oxygen PSU Oxygen Generator Firing Mechanism Deactivation

A. General

- (1) This procedure deactivates the chemical oxygen generator firing mechanism prior to conducting maintenance in the Main Cabin Center Oxygen PSUs.
- (2) Do not conduct any maintenance operations on an Oxygen PSU without first deactivating each oxygen generators firing mechanism.
- (3) Each oxygen passenger service unit (PSU) has at least one chemical oxygen generator. The generator, when ignited, supplies oxygen to each of the connected masks. Each generator has a temperature witness strip around the units body to show if the oxygen generator has previously expended or fired. The generator will start the oxygen flow when the mask is pulled downward, provided that the safety pin is removed from the firing mechanism.
- (4) All replacement chemical oxygen generators are supplied with a safety pin. The safety pin is installed in the firing mechanism of the oxygen generator. The generator cannot ignite (start oxygen flow) when the safety pin is correctly installed. The generator is safe to handle when the safety pin is installed.
- (5) In addition to the safety pin, a secondary safety device is used for the transport of spare oxygen generators This secondary safety device must be removed from the firing mechanisms release pin hole, before the release pin can be installed.

ARO ALL



- (6) The safety pin has to be installed in the oxygen generator firing mechanism (oxygen generator deactivation) whenever the oxygen generator or the oxygen passenger service unit is to be removed from the airplane, or when any other oxygen passenger service unit (PSU) maintenance is to be performed.
- (7) Once either the oxygen generator or the oxygen passenger service unit (PSU) is installed, and other maintenance to the PSU is complete, the safety pin is to be removed from the generator firing mechanism (oxygen generator activation).

B. References

Reference	Title
25-23-01-010-801	Passenger Service Unit (PSU) Opening (P/B 201)
35-21-11-000-801	Attendant /Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Removal (P/B 201)
35-21-11-400-801	Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Installation (P/B 201)
35-21-13-000-801	Main Cabin Outboard Oxygen PSU Oxygen Generator Removal (P/B 201)
35-21-13-400-801	Main Cabin Outboard Oxygen PSU Oxygen Generator Installation (P/B 201)

C. Tools/Equipment

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

Reference	Description
COM-752	Safety Pin and Flag - Chemical Oxygen Generator
	Part #: E71401-00 Supplier: D1379 Opt Part #: E71401 Supplier: D1379
COM-1935	Pliers - Firing Pin Retraction
	Part #: C35004-1 Supplier: 81205 Part #: E71516-00 Supplier: D1379
SPL-1937	Equipment - Firing Pin Retraction, BE Aerospace and AVOX oxygen generators
	Part #: C35003-10 Supplier: 81205 Part #: C35004-1 Supplier: 81205 Opt Part #: A35001-13 Supplier: 81205

D. Location Zones

Zone	Area	
200	Upper Half of Fuselage	

E. Preparation

NOTE: Reference the figure:

Main Cabin Center Oxygen PSU Location/Figure 201

Main Cabin Center Oxygen PSU Generator Fired Inspection/Figure 202

SUBTASK 35-21-12-800-002

- (1) Get access to the appropriate PSU as follows:
 - (a) The Main Cabin Center Oxygen PSUs are located below the center stow bins, above each seat.

ARO ALL



SUBTASK 35-21-12-865-001

(2) Open these circuit breakers and install safety tags:

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	3	C35403	L PAX OXY
Α	4	C35405	C PAX OXY
Α	5	C35404	R PAX OXY
Н	3	C35606	CHAN A OXY DEPLOY
Н	4	C35607	CHAN B OXY DEPLOY

SUBTASK 35-21-12-010-001

(3) To open the oxygen Passenger Service Unit (PSU) for maintenance or removal, do this task: Passenger Service Unit (PSU) Opening, TASK 25-23-01-010-801.

SUBTASK 35-21-12-210-001

- (4) Examine the oxygen generator [2] to determine if it has been previously fired.
 - (a) Any of the following conditions indicate that the oxygen generator has been fired (expended):
 - 1) The heat sensitive paint found on the generator exterior has turned black, and/or,
 - 2) The release pin is no longer engaged with the firing pin, and/or,
 - 3) The firing pin has retracted into the firing mechanism so that the release pin hole is no longer visible on the firing pin.



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 INJURY OR DEATH TO PERSONS AND DAMAGE TO EQUIPMENT.

(5) If the oxygen generator has been fired (expended), process the expended generator as appropriate, and replace the oxygen generator with new.

NOTE: Deactivation of a fired (expended) generator is neither possible, nor necessary. Once the expended generator has cooled, it can be safely handled and processed.

(a) To replace the fired (expended) generator, select the appropriate task:

Attendant /Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Removal, TASK 35-21-11-000-801

Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Installation, TASK 35-21-11-400-801

Main Cabin Center Oxygen PSU Oxygen Generator Removal, TASK 35-21-12-000-801

Main Cabin Center Oxygen PSU Oxygen Generator Installation, TASK 35-21-12-400-801

Main Cabin Outboard Oxygen PSU Oxygen Generator Removal,

TASK 35-21-13-000-801

Main Cabin Outboard Oxygen PSU Oxygen Generator Installation, TASK 35-21-13-400-801

ARO ALL



F. Procedure

NOTE: Reference the figure:

Main Cabin Center Oxygen PSU Generator Firing Mechanism Activation / Deactivation/Figure 203

SUBTASK 35-21-12-040-001

- (1) To deactivate the chemical oxygen generator [2], do the steps that follow:
 - (a) Put the firing pin retraction pliers and safety pin, SPL-1937 (for B/E Aerospace and AVOX Systems oxygen generator) or firing pin retraction pliers, COM-1935 (for Drager oxygen generator) between the release pin and the firing pin.
 - (b) Put the firing pin retraction pliers, COM-1935 between the release pin and the firing pin.
 - (c) Using the pliers, carefully extract the firing pin from the generator firing mechanism, until the safety pin hole becomes visible.

NOTE: The safety pin hole is the smaller of the two holes located on the firing pin.

NOTE: Do not release the firing pin retraction pliers.



MAKE SURE THAT THE RELEASE PIN IS INSTALLED IN THE LARGER OF THE TWO HOLES, AND THAT THE SAFETY PIN IS INSTALLED IN THE SMALLER OF THE TWO HOLES LOCATED IN THE FIRING PIN. FAILURE TO INSTALL THE PINS COULD PREVENT THE OXYGEN GENERATOR FROM FIRING WHEN THE OXYGEN MASKS ARE ACTUATED.

(d) Install the safety pin and flag, COM-752 or equivalent into the safety pin hole located in the firing pin.

NOTE: The safety pin hole is the smaller of the two holes located on the firing pin.

- (e) Carefully release the firing pin retraction pliers until the safety pin rests against the firing mechanism housing.
- (f) Remove the firing pin retraction pliers.

SUBTASK 35-21-12-800-006

(2) It is now safe to continue maintenance on the Oxygen PSU.

------ END OF TASK ------

TASK 35-21-12-440-801

3. Main Cabin Center Oxygen Generator Firing Mechanism Activation

A. General

- (1) This procedure activates the chemical oxygen generator firing mechanism after conducting maintenance in the Main Cabin Center Oxygen PSUs.
- (2) Each oxygen passenger service unit (PSU) has at least one chemical oxygen generator. The generator, when ignited, supplies oxygen to each of the connected masks. Each generator has a temperature witness strip around the units body to show if the oxygen generator has previously ignited (oxygen flow started) or not. The generator will start the oxygen flow when the mask is pulled downward, provided that the safety pin is removed from the firing mechanism.

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- (3) All replacement chemical oxygen generators are supplied with a safety pin. The safety pin is installed in the firing mechanism of the oxygen generator. The generator cannot ignite (start oxygen flow) when the safety pin is correctly installed. The generator is safe to handle when the safety pin is installed.
- (4) In addition to the safety pin, a secondary safety device is used for the transport of spare oxygen generators This secondary safety device must be removed from the firing mechanisms release pin hole, before the release pin can be installed.
- (5) The safety pin has to be installed in the oxygen generator firing mechanism (oxygen generator deactivation) whenever the oxygen generator or the oxygen passenger service unit is to be removed from the airplane, or when any other oxygen passenger service unit (PSU) maintenance is to be performed.
- (6) Once either the oxygen generator or the oxygen passenger service unit (PSU) is installed, and other maintenance to the PSU is complete, the safety pin is to be removed from the generator firing mechanism (oxygen generator activation).

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 #: C35004-1 Supplier: 81205 Part #: E71516-00 Supplier: D1379
SPL-1937	Equipment - Firing Pin Retraction, BE Aerospace and AVOX oxygen generators
	Part #: C35003-10 Supplier: 81205 Part #: C35004-1 Supplier: 81205 Opt Part #: A35001-13 Supplier: 81205

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Preparation

NOTE: Reference the figure:

Main Cabin Center Oxygen PSU Location/Figure 201

SUBTASK 35-21-12-800-008

- (1) Get access to the appropriate PSU as follows:
 - (a) The Main Cabin Center Oxygen PSUs are located below the center stow bins, above each seat.

E. Procedure

NOTE: Reference the figures:

Main Cabin Center Oxygen PSU Generator Firing Mechanism Activation / Deactivation/Figure 203

SUBTASK 35-21-12-211-001

- (1) Before installing the release pin, visually inspect the pins general condition:
 - (a) Replace the release pin/cable assembly if it demonstrates any of the following conditions:
 - Galling

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- 2) Bends
- 3) Corrosion.
- 4) Nicks
- 5) Scrapes

SUBTASK 35-21-12-440-001



DO NOT REMOVE THE SAFETY PIN IF THE RELEASE PIN IS NOT INSTALLED. IF THE SAFETY PIN IS REMOVED THE OXYGEN GENERATOR WILL FIRE, AND THE GENERATOR WOULD HAVE TO BE REPLACED.



MAKE SURE THAT THE RELEASE PIN IS INSTALLED IN THE LARGER OF THE TWO HOLES, AND THAT THE SAFETY PIN IS INSTALLED IN THE SMALLER OF THE TWO HOLES LOCATED IN THE FIRING PIN. FAILURE TO INSTALL THE PINS COULD PREVENT THE OXYGEN GENERATOR FROM FIRING WHEN THE OXYGEN MASKS ARE ACTUATED.

- (2) To activate a chemical oxygen generator, do the steps that follow:
 - (a) Engage the firing pin retraction pliers and relieve the pressure on the safety pin.
 - (b) Remove the firing pin retraction pliers and safety pin, SPL-1937 (for B/E Aerospace and AVOX Systems oxygen generator) or firing pin retraction pliers, COM-1935 (for Drager oxygen generator).
 - (c) Remove the firing pin retraction pliers, COM-1935.

SUBTASK 35-21-12-200-002

(3) Do this Task: Main Cabin Center Oxygen PSU Oxygen Generator Firing Mechanism Detailed Visual Inspection, TASK 35-21-12-200-801



TASK 35-21-12-200-801

4. Main Cabin Center Oxygen PSU Oxygen Generator Firing Mechanism Detailed Visual Inspection

A. General

- (1) This procedure inspects the chemical oxygen generator firing mechanism after conducting maintenance and activating the oxygen generators located in the Main Cabin Center Oxygen PSUs.
- (2) Each oxygen passenger service unit (PSU) has at least one chemical oxygen generator. The generator, when ignited, supplies oxygen to each of the connected masks. Each generator has a temperature witness strip around the units body to show if the oxygen generator has previously ignited (oxygen flow started) or not. The generator will start the oxygen flow when the mask is pulled downward, provided that the safety pin is removed from the firing mechanism.
- (3) All replacement chemical oxygen generators are supplied with a safety pin. The safety pin is installed in the firing mechanism of the oxygen generator. The generator cannot ignite (start oxygen flow) when the safety pin is correctly installed. The generator is safe to handle when the safety pin is installed.
- (4) In addition to the safety pin, a secondary safety device is used for the transport of spare oxygen generators This secondary safety device must be removed from the firing mechanisms release pin hole, before the release pin can be installed.

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- (5) The safety pin has to be installed in the oxygen generator firing mechanism (oxygen generator deactivation) whenever the oxygen generator or the oxygen passenger service unit is to be removed from the airplane, or when any other oxygen passenger service unit (PSU) maintenance is to be performed.
- (6) Once either the oxygen generator or the oxygen passenger service unit (PSU) is installed, and other maintenance to the PSU is complete, the safety pin is to be removed from the generator firing mechanism (oxygen generator activation).

B. References

Reference	Title
25-23-01-410-801	Passenger Service Unit (PSU) Closing (P/B 201)

C. Consumable Materials

Reference	Description	Specification
G50361	Tape - Mylar, Permacel P-280	
G50362	Tape - 3M Polyester Tape 853 (Formerly 3M No. 853 Tape)	

D. Location Zones

Zone	Area	
200	Upper Half of Fuselage	

E. Preparation

NOTE: Reference the figure:

Main Cabin Center Oxygen PSU Location/Figure 201

SUBTASK 35-21-12-800-012

- (1) Get access to the appropriate PSU as follows:
 - (a) The Main Cabin Center Oxygen PSUs are located below the center stow bins, above each seat.

F. Procedure

NOTE: Reference the figures:

Main Cabin Center Oxygen PSU Generator Firing Mechanism Inspection/Figure 204 Figure 206

Figure 207 or Figure 208

SUBTASK 35-21-12-211-007

- (1) To inspect the oxygen generator firing mechanism for proper activation, make sure that the following conditions have been met:
 - (a) Make sure that the release cable is routed through each mask lanyard ring.



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.

- (b) Make sure that the release cable assembly is routed through the correct release cable assembly hole on the Oxygen box (.Figure 206)
- (c) Make sure that the release cable hole that is not used is covered with tape. Do these steps, as necessary, to replenish the tape.

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 Put a 1 inch (2.5 cm) length,) by 0.75 inch (2 cm) width tape (Permacel P-280 tape, G50361, 3M 853 tape, G50362 or 3M 853 tape, G50362) over the unused 12 minute oxygen generator release cable hole. Install the tape on both the top and bottom surface of the oxygen box.



IN ADDITION TO THE SAFETY PIN, A SECONDARY SAFETY DEVICE IS USED FOR THE TRANSPORT OF SPARE OXYGEN GENERATOR. THIS SECONDARY SAFETY DEVICE MUST BE REMOVED FROM THE FIRING PINS RELEASE PIN HOLE BEFORE THE RELEASE PIN CAN BE INSTALLED. FAILURE TO DO SO COULD PREVENT THE OXYGEN GENERATOR FROM FIRING WHEN THE OXYGEN MASKS ARE ACTUATED.

(d) The secondary safety device has been removed from the larger of the two holes in the firing pin.



MAKE SURE THAT THE RELEASE PIN IS INSTALLED IN THE LARGER OF THE TWO HOLES, AND THAT THE SAFETY PIN IS INSTALLED IN THE SMALLER OF THE TWO HOLES LOCATED IN THE FIRING PIN. FAILURE TO INSTALL THE PINS COULD PREVENT THE OXYGEN GENERATOR FROM FIRING WHEN THE OXYGEN MASKS ARE ACTUATED.

- (e) The release pin is inserted in the larger of the two holes in the firing pin.
- (f) The release pin is positioned against the generator firing mechanism spring housing.
- (g) The safety pin and warning flag is not present in the firing pin
- (2) If any of the above conditions have not been met, the oxygen generator must be deactivated before corrections can be made.

SUBTASK 35-21-12-410-001

- (3) Close the Passenger Service Unit (PSU) after maintenance is complete:
 - (a) Do this task: Passenger Service Unit (PSU) Closing, TASK 25-23-01-410-801.

SUBTASK 35-21-12-865-002

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

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	3	C35403	L PAX OXY
Α	4	C35405	C PAX OXY
Α	5	C35404	R PAX OXY
Н	3	C35606	CHAN A OXY DEPLOY
Н	4	C35607	CHAN B OXY DEPLOY

SUBTASK 35-21-12-741-001

(5) The activated oxygen PSU can now be returned to service.

——— END OF TASK ———		END	OF TASK	
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TASK 35-21-12-000-801

5. Main Cabin Center Oxygen PSU Oxygen Generator Removal

NOTE: This procedure is a scheduled maintenance task.

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A. General

(1) This procedure removes the chemical oxygen generator from the Main Cabin Center Oxygen PSUs.

B. References

Reference	Title
25-23-01-010-801	Passenger Service Unit (PSU) Opening (P/B 201)
35-00-00-910-802	Safety Precautions (P/B 201)
35-21-11-040-801	Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Firing Mechanism Deactivation (P/B 201)
35-21-13-040-801	Main Cabin Outboard Oxygen PSU Oxygen Generator Firing Mechanism Deactivation (P/B 201)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Preparation

NOTE: Reference the figure:

Main Cabin Center Oxygen PSU Location/Figure 201

SUBTASK 35-21-12-910-001

(1) Read and obey these safety precautions and general instructions for oxygen systems before you conduct any maintenance:

Safety Precautions, TASK 35-00-00-910-802

SUBTASK 35-21-12-800-016

- (2) Get access to the appropriate PSU as follows:
 - (a) The Main Cabin Center Oxygen PSUs are located below the center stow bins, above each seat.

SUBTASK 35-21-12-865-003

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

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	3	C35403	L PAX OXY
Α	4	C35405	C PAX OXY
Α	5	C35404	R PAX OXY
Н	3	C35606	CHAN A OXY DEPLOY
Н	4	C35607	CHAN B OXY DEPLOY

SUBTASK 35-21-12-010-002

(4) To open the oxygen Passenger Service Unit (PSU) for maintenance or removal, do this task: Passenger Service Unit (PSU) Opening, TASK 25-23-01-010-801.

E. Procedure

NOTE: Reference the figures:

Main Cabin Center Oxygen PSU Generator Firing Mechanism Activation / Deactivation/Figure 203

Main Cabin Center Oxygen PSU Generator Removal/Installation/Figure 206

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SUBTASK 35-21-12-040-002

- (1) Make sure the oxygen generator [2] firing mechanism is deactivated (safety pin installed) prior to conducting any maintenance on the Oxygen PSU.
 - (a) To deactivate the oxygen generator, select the appropriate task:

Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Firing Mechanism Deactivation, TASK 35-21-11-040-801

Main Cabin Outboard Oxygen PSU Oxygen Generator Firing Mechanism Deactivation, TASK 35-21-13-040-801

Main Cabin Center Oxygen PSU Oxygen Generator Firing Mechanism Deactivation, TASK 35-21-12-040-801

NOTE: Deactivation of a fired (expended) generator is neither possible, nor necessary.

Once the expended generator has cooled, it can be safely handled and processed.

SUBTASK 35-21-12-020-001

- (2) To remove the generator [2] from the oxygen PSU, do the steps that follow:
 - (a) Make sure the oxygen generator [2] firing mechanism is deactivated (the safety pin is installed).
 - (b) Disconnect the oxygen hoses from the generator [2].
 - (c) Remove the screw and washer from the strap cover.
 - (d) Pull back the strap cover.



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
INJURY OR DEATH TO PERSONS AND DAMAGE TO EQUIPMENT.

(e) Remove the generator

FND	OF	TASK	

TASK 35-21-12-400-801

6. Main Cabin Center Oxygen PSU Oxygen Generator Installation

NOTE: This procedure is a scheduled maintenance task.

A. General

(1) This procedure installs the chemical oxygen generator into the Main Deck Center Oxygen PSUs.

B. References

Reference	Title
25-23-01-010-801	Passenger Service Unit (PSU) Opening (P/B 201)
35-21-11-000-801	Attendant /Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Removal (P/B 201)

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(Continued)

Reference	Title
35-21-11-040-801	Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Firing Mechanism Deactivation (P/B 201)
35-21-11-400-801	Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Installation (P/B 201)
35-21-13-000-801	Main Cabin Outboard Oxygen PSU Oxygen Generator Removal (P/B 201)
35-21-13-040-801	Main Cabin Outboard Oxygen PSU Oxygen Generator Firing Mechanism Deactivation (P/B 201)
35-21-13-400-801	Main Cabin Outboard Oxygen PSU Oxygen Generator Installation (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-1937	Equipment - Firing Pin Retraction, BE Aerospace and AVOX oxygen
	generators
	Part #: C35003-10 Supplier: 81205
	Part #: C35004-1 Supplier: 81205
	Opt Part #: A35001-13 Supplier: 81205

D. Consumable Materials

Reference	Description	Specification
G50361	Tape - Mylar, Permacel P-280	
G50362	Tape - 3M Polyester Tape 853 (Formerly 3M No. 853 Tape)	
G50533	tape - transparent polyester	
Location Zones		

E. Location Zones

Zone	Area	
200	Upper Half of Fuselage	

F. Preparation

NOTE: Reference the figures:

Main Cabin Center Oxygen PSU Location/Figure 201

Main Cabin Center Oxygen PSU Generator Fired Inspection/Figure 202

Main Cabin Center Oxygen PSU Generator Firing Mechanism Activation / Deactivation/Figure 203

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SUBTASK 35-21-12-800-021

- (1) Get access to the appropriate PSU as follows:
 - (a) The Main Cabin Center Oxygen PSUs are located below the center stow bins, above each seat.

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EFFECTIVITY -



SUBTASK 35-21-12-865-004

(2) Open these circuit breakers and install safety tags:

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	3	C35403	L PAX OXY
Α	4	C35405	C PAX OXY
Α	5	C35404	R PAX OXY
Н	3	C35606	CHAN A OXY DEPLOY
Н	4	C35607	CHAN B OXY DEPLOY

SUBTASK 35-21-12-010-003

(3) To open the oxygen Passenger Service Unit (PSU) for maintenance or removal, do this task: Passenger Service Unit (PSU) Opening, TASK 25-23-01-010-801.

SUBTASK 35-21-12-210-002

- (4) Examine the oxygen generator [2] to determine if it has been previously fired.
 - (a) Any of the following conditions indicate that the oxygen generator has been fired (expended):
 - 1) The heat sensitive paint found on the generator exterior has turned black, and/or,
 - 2) The release pin is no longer engaged with the firing pin, and/or,
 - 3) The firing pin has retracted into the firing mechanism so that the release pin hole is no longer visible on the firing pin.



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 INJURY OR DEATH TO PERSONS AND DAMAGE TO EQUIPMENT.

(5) If the oxygen generator has been fired (expended), process the expended generator as appropriate, and replace the oxygen generator with new.

NOTE: Deactivation of a fired (expended) generator is neither possible, nor necessary. Once the expended generator has cooled, it can be safely handled and processed.

(a) To replace the fired (expended) generator, select the appropriate task:

Attendant /Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Removal, TASK 35-21-11-000-801

Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Installation, TASK 35-21-11-400-801

Main Cabin Center Oxygen PSU Oxygen Generator Removal, TASK 35-21-12-000-801

Main Cabin Center Oxygen PSU Oxygen Generator Installation, TASK 35-21-12-400-801

Main Cabin Outboard Oxygen PSU Oxygen Generator Removal,

TASK 35-21-13-000-801

Main Cabin Outboard Oxygen PSU Oxygen Generator Installation, TASK 35-21-13-400-801

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SUBTASK 35-21-12-040-003

- (6) Make sure the oxygen generator [2] firing mechanism is deactivated (safety pin installed) prior to conducting any maintenance on the Oxygen PSU.
 - (a) To deactivate the oxygen generator, select the appropriate task:

Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Firing Mechanism Deactivation, TASK 35-21-11-040-801

Main Cabin Outboard Oxygen PSU Oxygen Generator Firing Mechanism Deactivation, TASK 35-21-13-040-801

Main Cabin Center Oxygen PSU Oxygen Generator Firing Mechanism Deactivation, TASK 35-21-12-040-801

NOTE: Deactivation of a fired (expended) generator is neither possible, nor necessary.

Once the expended generator has cooled, it can be safely handled and processed.

G. Procedure

NOTE: Reference the figure:

Main Cabin Center Oxygen PSU Generator Removal/Installation/Figure 206

SUBTASK 35-21-12-420-001

- (1) Do a visual check if the shape of the starter assembly and the outlet valve assembly are perpendicular to the lids.
- (2) To install the oxygen generator [2] into the Oxygen PSU, do the following steps:
 - (a) Put the generator [2] in the position for installation.
 - (b) Lower the strap cover down on top of the generator [2].
 - (c) Install the screw, and washer in the strap cover.
 - (d) Attach the oxygen hose to the generator [2].

SUBTASK 35-21-12-430-001



DO NOT REMOVE THE SAFETY PIN IF THE RELEASE PIN IS NOT INSTALLED. IF THE SAFETY PIN IS REMOVED THE OXYGEN GENERATOR WILL FIRE, AND THE GENERATOR WOULD HAVE TO BE REPLACED.

(3) To install the release pin into the oxygen generator firing mechanism, do the steps that follow: Reference the Figure: Figure 203



IN ADDITION TO THE SAFETY PIN, A SECONDARY SAFETY DEVICE IS USED FOR THE TRANSPORT OF SPARE OXYGEN GENERATOR. THIS SECONDARY SAFETY DEVICE MUST BE REMOVED FROM THE FIRING PINS RELEASE PIN HOLE BEFORE THE RELEASE PIN CAN BE INSTALLED. FAILURE TO DO SO COULD PREVENT THE OXYGEN GENERATOR FROM FIRING WHEN THE OXYGEN MASKS ARE ACTUATED.

- (a) Remove the secondary safety device, if installed, from the release pin hole in the firing pin. The release pin hole is the larger of the two holes on the firing pin of the oxygen generator.
- (b) Put the release pin and cable through the mask lanyard rings.

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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) Make sure the release cable assembly is put through the correct hole on the oxygen box assembly. Reference the figures:

Figure 206

Figure 207 or Figure 208

(d) Make sure that the unused 12 minute generator release cable hole on the oxygen box assembly is taped over. Replenish the tape as necessary. Use the Permacel P-280 tape, G50361, 3M 853 tape, G50362, or tape, G50533.



MAKE SURE THAT THE RELEASE PIN IS INSTALLED IN THE LARGER OF THE TWO HOLES, AND THAT THE SAFETY PIN IS INSTALLED IN THE SMALLER OF THE TWO HOLES LOCATED IN THE FIRING PIN. FAILURE TO INSTALL THE PINS COULD PREVENT THE OXYGEN GENERATOR FROM FIRING WHEN THE OXYGEN MASKS ARE ACTUATED.

(e) Route the release pin to, and install in, the larger of the two holes in the firing pin. Reference the Figure:

Figure 203.

NOTE: The release pin should fit into the outer/larger hole without resistance. The release pin is held firmly against the firing pin spring case on removal of the safety pin.

SUBTASK 35-21-12-800-025

(4) Do these steps to activate the oxygen generator: Reference the Figure: Figure 203.



DO NOT REMOVE THE SAFETY PIN IF THE RELEASE PIN IS NOT INSTALLED. IF THE SAFETY PIN IS REMOVED THE OXYGEN GENERATOR WILL FIRE, AND THE GENERATOR WOULD HAVE TO BE REPLACED.



MAKE SURE THAT THE RELEASE PIN IS INSTALLED IN THE LARGER OF THE TWO HOLES, AND THAT THE SAFETY PIN IS INSTALLED IN THE SMALLER OF THE TWO HOLES LOCATED IN THE FIRING PIN. FAILURE TO INSTALL THE PINS COULD PREVENT THE OXYGEN GENERATOR FROM FIRING WHEN THE OXYGEN MASKS ARE ACTUATED.

- (a) Engage the firing pin retraction pliers and relieve the pressure on the safety pin.
- (b) Remove the firing pin retraction pliers and safety pin, SPL-1937.

SUBTASK 35-21-12-211-008

(5) Do this Task: Main Cabin Center Oxygen PSU Oxygen Generator Firing Mechanism Detailed Visual Inspection, TASK 35-21-12-200-801

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TASK 35-21-12-200-802

7. Main Cabin Center Oxygen PSU Oxygen Generator Check

A. General

- (1) This procedure checks that the chemical oxygen generators are properly installed in the Main Cabin Center Oxygen PSUs.
- (2) Do not conduct any maintenance operations on an Oxygen PSU without first deactivating each oxygen generators firing mechanism.
- (3) Each oxygen passenger service unit (PSU) has at least one chemical oxygen generator. The generator, when ignited, supplies oxygen to each of the connected masks. Each generator has a temperature witness strip around the units body to show if the oxygen generator has previously expended or fired. The generator will start the oxygen flow when the mask is pulled downward, provided that the safety pin is removed from the firing mechanism.
- (4) All replacement chemical oxygen generators are supplied with a safety pin. The safety pin is installed in the firing mechanism of the oxygen generator. The generator cannot ignite (start oxygen flow) when the safety pin is correctly installed. The generator is safe to handle when the safety pin is installed.
- (5) In addition to the safety pin, a secondary safety device is used for the transport of spare oxygen generators This secondary safety device must be removed from the firing mechanisms release pin hole, before the release pin can be installed.
- (6) The safety pin has to be installed in the oxygen generator firing mechanism (oxygen generator deactivation) whenever the oxygen generator or the oxygen passenger service unit is to be removed from the airplane, or when any other oxygen passenger service unit (PSU) maintenance is to be performed.
- (7) Once either the oxygen generator or the oxygen passenger service unit (PSU) is installed, and other maintenance to the PSU is complete, the safety pin is to be removed from the generator firing mechanism (oxygen generator activation).

B. References

Reference	Title
25-23-01-010-801	Passenger Service Unit (PSU) Opening (P/B 201)
25-23-01-410-801	Passenger Service Unit (PSU) Closing (P/B 201)
35-21-11-000-801	Attendant /Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Removal (P/B 201)
35-21-11-400-801	Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Installation (P/B 201)
35-21-13-000-801	Main Cabin Outboard Oxygen PSU Oxygen Generator Removal (P/B 201)
35-21-13-400-801	Main Cabin Outboard Oxygen PSU Oxygen Generator Installation (P/B 201)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Preparation

NOTE: Reference the figure:

Main Cabin Center Oxygen PSU Location/Figure 201

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SUBTASK 35-21-12-800-027

- (1) Get access to the appropriate PSU as follows:
 - (a) The Main Cabin Center Oxygen PSUs are located below the center stow bins, above each seat.

SUBTASK 35-21-12-865-005

(2) Open these circuit breakers and install safety tags:

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	3	C35403	L PAX OXY
Α	4	C35405	C PAX OXY
Α	5	C35404	R PAX OXY
Н	3	C35606	CHAN A OXY DEPLOY
Н	4	C35607	CHAN B OXY DEPLOY

SUBTASK 35-21-12-010-004

(3) To open the oxygen Passenger Service Unit (PSU) for maintenance or removal, do this task: Passenger Service Unit (PSU) Opening, TASK 25-23-01-010-801.

E. Procedure

NOTE: Reference the figures:

Main Cabin Center Oxygen PSU Generator Fired Inspection/Figure 202

Main Cabin Center Oxygen PSU Generator Firing Mechanism Inspection/Figure 204

Main Cabin Center Oxygen PSU Generator Removal/Installation/Figure 206

Figure 207 or Figure 208

SUBTASK 35-21-12-210-003

- (1) Examine the oxygen generator [2] to determine if it has been previously fired.
 - (a) Any of the following conditions indicate that the oxygen generator has been fired (expended):
 - 1) The heat sensitive paint found on the generator exterior has turned black, and/or,
 - 2) The release pin is no longer engaged with the firing pin, and/or,
 - 3) The firing pin has retracted into the firing mechanism so that the release pin hole is no longer visible on the firing pin.



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 INJURY OR DEATH TO PERSONS AND DAMAGE TO EQUIPMENT.

(2) If the oxygen generator has been fired (expended), process the expended generator as appropriate, and replace the oxygen generator with new.

NOTE: Deactivation of a fired (expended) generator is neither possible, nor necessary. Once the expended generator has cooled, it can be safely handled and processed.

(a) To replace the fired (expended) generator, select the appropriate task:

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Attendant /Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Removal, TASK 35-21-11-000-801

Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Installation, TASK 35-21-11-400-801

Main Cabin Center Oxygen PSU Oxygen Generator Removal, TASK 35-21-12-000-801

Main Cabin Center Oxygen PSU Oxygen Generator Installation, TASK 35-21-12-400-801

Main Cabin Outboard Oxygen PSU Oxygen Generator Removal, TASK 35-21-13-000-801

Main Cabin Outboard Oxygen PSU Oxygen Generator Installation, TASK 35-21-13-400-801

SUBTASK 35-21-12-210-004

- (3) To check the oxygen generator installation, do these steps:
 - (a) Make sure the oxygen generator is installed firmly in its position.
 - (b) Make sure the oxygen hose is connected to the oxygen generator.



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) Make sure the release cable is correctly routed through the mask lanyards and the oxygen box (Main Cabin Center Oxygen PSU Generator Removal/Installation/Figure 206, Figure 207 or Figure 208.
- (d) If any of the above conditions have not been met, the oxygen generator must be deactivated before corrections can be made.
 - Do this Task, as necessary, to deactivate the oxygen generator:
 Main Cabin Center Oxygen PSU Oxygen Generator Firing Mechanism Deactivation, TASK 35-21-12-040-801
- (e) Do this Task, as necessary to correct a faulty oxygen generator installation.Main Cabin Center Oxygen PSU Oxygen Generator Installation, TASK 35-21-12-400-801

SUBTASK 35-21-12-200-003

(4) Do this Task: Main Cabin Center Oxygen PSU Oxygen Generator Firing Mechanism Detailed Visual Inspection, TASK 35-21-12-200-801

SUBTASK 35-21-12-410-002

- (5) Close the PSU after maintenance is complete:
 - (a) Do this task: Passenger Service Unit (PSU) Closing, TASK 25-23-01-410-801.

SUBTASK 35-21-12-865-006

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

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	3	C35403	L PAX OXY
Α	4	C35405	C PAX OXY
Α	5	C35404	R PAX OXY
Н	3	C35606	CHAN A OXY DEPLOY

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(Continued)

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
-----	------------	---------------	-------------

H 4 C35607 CHAN B OXY DEPLOY

SUBTASK 35-21-12-741-002

(7) The oxygen PSU can now be returned to service.

----- END OF TASK -----

TASK 35-21-12-000-802

8. Main Cabin Center Oxygen PSU Oxygen Mask Removal

A. General

(1) This procedure removes the oxygen masks from the main cabin center oxygen passenger service units (PSUs).

B. References

Reference	Title
35-00-00-910-802	Safety Precautions (P/B 201)

C. 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

D. Location Zones

Zone	Area
200	Upper Half of Fuselage

E. Preparation

NOTE: Reference the figure:

Main Cabin Center Oxygen PSU Location/Figure 201

SUBTASK 35-21-12-910-002

(1) Read and obey these safety precautions and general instructions for oxygen systems before you conduct any maintenance:

Safety Precautions, TASK 35-00-00-910-802

SUBTASK 35-21-12-800-034

- (2) Get access to the appropriate PSU as follows:
 - (a) The Main Cabin Center Oxygen PSUs are located below the center stow bins, above each seat.

SUBTASK 35-21-12-010-005

- (3) To open an oxygen PSU oxygen mask box for maintenance, do the steps that follow:
 - (a) Insert the 0.090 in to 0.125 in diameter 6 in length rod, STD-4241 through the access hole in the PSU oxygen mask box door to disengage the door latch/actuator.
 - (b) Open the PSU oxygen mask box door.

NOTE: The masks will fall from the mask box.

F. Procedure

NOTE: Reference the figure:

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Main Cabin Center Oxygen PSU Generator Removal/Installation/Figure 206

SUBTASK 35-21-12-020-002



DO THE DEACTIVATION PROCEDURE FOR THE OXYGEN GENERATOR. ACCIDENTAL OPERATION OF THE OXYGEN GENERATOR CAN CAUSE INJURIES TO PERSONS AND DAMAGE TO EQUIPMENT.

- (1) To remove an oxygen mask [2] from a PSU, do the steps that follow:
 - (a) Remove the release pin from the firing pin on the oxygen generator firing mechanism.
 - (b) Gently pull the firing cable out of the mask lanyard loops.
 - (c) Gently pull the mask hose off of the mask hose manifold to remove the oxygen mask [2].



TASK 35-21-12-400-802

9. Main Cabin Center Oxygen PSU Oxygen Mask Installation

A. General

(1) This procedure installs the oxygen masks into the main cabin center oxygen passenger service units (PSUs).

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. Preparation

NOTE: Reference the figure:

Main Cabin Center Oxygen PSU Location/Figure 201

SUBTASK 35-21-12-800-039

- (1) Get access to the appropriate PSU as follows:
 - (a) The Main Cabin Center Oxygen PSUs are located below the center stow bins, above each seat.

SUBTASK 35-21-12-010-006

- (2) To open an oxygen PSU oxygen mask box for maintenance, do the steps that follow:
 - (a) Insert the 0.090 in to 0.125 in diameter 6 in length rod, STD-4241 through the access hole in the PSU oxygen mask box door to disengage the door latch/actuator.
 - (b) Open the PSU oxygen mask box door.

NOTE: The masks will fall from the mask box.

E. Procedure

NOTE: Reference the figure:

Main Cabin Center Oxygen PSU Generator Removal/Installation/Figure 206

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SUBTASK 35-21-12-420-003

- (1) To install an unpacked oxygen mask [2] assembly into an oxygen Passenger Service Unit (PSU), do the steps that follow:
 - (a) Make sure the oxygen generator firing mechanism is deactivated (safety pin installed) prior to conducting any maintenance on the Oxygen PSU.
 - To deactivate the oxygen generator, do this task: Main Cabin Center Oxygen PSU Oxygen Generator Firing Mechanism Deactivation, TASK 35-21-12-040-801.
 - (b) Attach the mask hose to the oxygen generator manifold.
 - 1) Option: To aid the installation of the mask hose end, do the following:
 - a) Soak the tube end for 5 minutes in clean distilled water that has been heated to 120 to 140 degrees F.
 - b) Wipe the outside dry and install while the end is still warm and moist internally.
 - (c) Route the release pin/cable through mask lanyard rings ensuring that the mask lanyard rings maintain the same position relative to the masks.

NOTE: Do not allow the mask lanyards to cross or tangle.

(d) Continue routing the firing pin/cable out of the mask box and to the oxygen generator firing mechanism as appropriate.

SUBTASK 35-21-12-530-001

(2) To pack the mask after installation into the PSU, do this task:

Main Cabin Center Oxygen PSU Oxygen Mask Packing, TASK 35-21-12-400-803



TASK 35-21-12-200-803

10. Main Cabin Center Oxygen PSU Oxygen Mask Inspection

NOTE: This procedure is a scheduled maintenance task.

A. General

(1) This procedure inspects the oxygen masks for the Main Cabin Center Oxygen Passenger Service Units (PSUs).

B. References

Reference	Title
35-21-01-040-802	Oxygen Generator Firing Mechanism Deactivation (P/B 201)
35-21-01-440-802	Oxygen Generator Firing Mechanism Activation (P/B 201)
35-21-11-990-816	Figure: Oxygen Mask Hose Inspection (P/B 201)

C. 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

D. Location Zones

Zone	Area	
200	Upper Half of Fuselage	

E. Preparation

NOTE: Reference the figure:

Main Cabin Center Oxygen PSU Location/Figure 201

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SUBTASK 35-21-12-040-005



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.

(1) Do the task: (Oxygen Generator Firing Mechanism Deactivation, TASK 35-21-01-040-802).

SUBTASK 35-21-12-800-044

- (2) Get access to the appropriate PSU as follows:
 - (a) The Main Cabin Center Oxygen PSUs are located below the center stow bins, above each seat.

SUBTASK 35-21-12-010-007

- (3) To open an oxygen PSU oxygen mask box for maintenance, do the steps that follow:
 - (a) Insert the 0.090 in to 0.125 in diameter 6 in length rod, STD-4241 through the access hole in the PSU oxygen mask box door to disengage the door latch/actuator.
 - (b) Open the PSU oxygen mask box door.

NOTE: The masks will fall from the mask box.

F. Procedure

SUBTASK 35-21-12-211-006

- (1) To do an inspection of an oxygen mask [2], do these steps:
 - (a) Make sure that the oxygen mask [2] is clean and is in a satisfactory condition.

NOTE: The usual coiling and packing of mask assemblies can put the mask assembly materials temporarily out of their correct shape.

- 1) Do a visual inspection of the oxygen mask [2] assembly:
 - a) Make sure that the oxygen masks are not damaged as follows:
 - <1> Torn parts.
 - <2> Broken parts.
 - <3> Frayed parts.
 - <4> Missing parts.
 - <5> Holes in parts.
 - b) Make sure that the oxygen mask assembly does not have these conditions:
 - <1> Stiffness.
 - <2> Permanent deformation or kinks.
 - c) Make sure that all of the flapper valves are aligned and not damaged.
 - d) Make sure that the bag and tube do not have changed color.
 - e) Make sure that the head strap is attached to the face piece.
 - f) Make sure that the head strap will get longer when you pull it, and goes back when you let it go.
 - g) Make sure that the face piece does not have an odor.
 - h) Look through the bag and tube. Make sure that there are no liquid drops or solid dirt on the internal or external surface of the bag and tube.

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- Extend the tubing straight from the bag and make sure that the in-line flow indicator points to the bag.
- j) Look at the oxygen mask hose. Make sure that the hose does not have pinches or kinks.
- k) If the hose is pinched or kinked and permanent deformation has occurred, do theses steps:
 - <1> Make sure that the deformation at the smallest cross section of the hose is no less than 0.150 in. (0.381 cm) (Figure 35-21-11-990-816).
 - <2> If the cross section is smaller than 0.150 in. (0.381 cm), replace the hose.
- (2) Make sure that a lanyard is attached to the mask or to the oxygen hose.
 - (a) If the lanyard assembly is damaged or missing, replace the lanyard assembly.

SUBTASK 35-21-12-100-003

(3) To clean the mask after inspection, do this task: Main Cabin Center Oxygen PSU Oxygen Mask Cleaning, TASK 35-21-12-100-801.

SUBTASK 35-21-12-410-006

(4) To pack the mask after inspection, do this task: Main Cabin Center Oxygen PSU Oxygen Mask Packing, TASK 35-21-12-400-803.

SUBTASK 35-21-12-440-004

(5) Do the Task: (Oxygen Generator Firing Mechanism Activation, TASK 35-21-01-440-802).



TASK 35-21-12-100-801

11. Main Cabin Center Oxygen PSU Oxygen Mask Cleaning

A. General

 This procedure cleans the oxygen masks for the main cabin center oxygen passenger service units (PSUs).

B. References

Reference	Title
35-21-01-040-802	Oxygen Generator Firing Mechanism Deactivation (P/B 201)
35-21-01-440-802	Oxygen Generator Firing Mechanism Activation (P/B 201)

C. 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

D. Consumable Materials

Reference	Description	Specification
B00541	Cleaner - General Purpose Household Detergent	
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

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E. Location Zones

Zone	Area
200	Upper Half of Fuselage

F. Preparation

NOTE: Reference the figure:

Main Cabin Center Oxygen PSU Location/Figure 201

SUBTASK 35-21-12-040-004



MAKE SURE THAT THE SAFETY PIN WITH A WARNING FLAG IS INSTALLED ON THE GENERATOR. THE GENERATOR IS A PYROTECHNIC-ACTIVATED DEVICE. IF THE GENERATOR FIRES, IT WILL BECOME VERY HOT (450 DEGREE F OR MORE). IF YOU TOUCH A HOT GENERATOR, YOU WILL GET AN INJURY.

(1) Do this task: (Oxygen Generator Firing Mechanism Deactivation, TASK 35-21-01-040-802).

SUBTASK 35-21-12-800-046

- (2) Get access to the appropriate PSU as follows:
 - (a) The Main Cabin Center Oxygen PSUs are located below the center stow bins, above each seat.

SUBTASK 35-21-12-010-008

- (3) To open an oxygen PSU oxygen mask box for maintenance, do the steps that follow:
 - (a) Insert the 0.090 in to 0.125 in diameter 6 in length rod, STD-4241 through the access hole in the PSU oxygen mask box door to disengage the door latch/actuator.
 - (b) Open the PSU oxygen mask box door.

NOTE: The masks will fall from the mask box.

G. Procedure

SUBTASK 35-21-12-100-002

- (1) To clean an oxygen mask [2] assembly, do these steps:
 - (a) Mix a solution of general purpose household detergent cleaner, B00541 with warm water, in accordance with the manufacture's instructions.
 - (b) Apply the solution to the facepiece with a cotton wiper, G00034 or a seal, G02186.
 - (c) Rinse the general purpose household detergent cleaner, B00541 from the oxygen mask with warm water.
 - (d) Make sure the oxygen mask is completely dry.

SUBTASK 35-21-12-420-004

(2) To install the clean oxygen mask into the PSU, do the following task:

Main Cabin Center Oxygen PSU Oxygen Mask Installation, TASK 35-21-12-400-802

SUBTASK 35-21-12-440-003

(3) Do the task: (Oxygen Generator Firing Mechanism Activation, TASK 35-21-01-440-802).

----- END OF TASK -----

TASK 35-21-12-400-803

12. Main Cabin Center Oxygen PSU Oxygen Mask Packing

NOTE: This procedure is a scheduled maintenance task.

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A. General

(1) This procedure packs the oxygen masks into the main deck center oxygen passenger service units (PSUs).

B. References

Reference	Title
35-21-13-440-801	Main Cabin Outboard Oxygen PSU Oxygen Generator Firing
	Mechanism Activation (P/B 201)

C. 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

D. Location Zones

Zone	Area	
200	Upper Half of Fuselage	

E. Preparation

NOTE: Reference the figure:

Main Cabin Center Oxygen PSU Location/Figure 201

SUBTASK 35-21-12-800-048

- (1) Get access to the appropriate PSU as follows:
 - (a) The Main Cabin Center Oxygen PSUs are located below the center stow bins, above each seat.

SUBTASK 35-21-12-865-007

(2) Open these circuit breakers and install safety tags:

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	3	C35403	L PAX OXY
Α	4	C35405	C PAX OXY
Α	5	C35404	R PAX OXY
Н	3	C35606	CHAN A OXY DEPLOY
Н	4	C35607	CHAN B OXY DEPLOY

SUBTASK 35-21-12-010-009

- (3) To open an oxygen PSU oxygen mask box for maintenance, do the steps that follow:
 - (a) Insert the 0.090 in to 0.125 in diameter 6 in length rod, STD-4241 through the access hole in the PSU oxygen mask box door to disengage the door latch/actuator.
 - (b) Open the PSU oxygen mask box door.

NOTE: The masks will fall from the mask box.

F. Procedure

NOTE: Reference the figure:

Main Cabin Center Oxygen PSU Mask Packing/Figure 207 or Main Cabin Center Oxygen PSU Mask Packing/Figure 208

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SUBTASK 35-21-12-420-007

- (1) To pack a Main Cabin Center Oxygen PSU Oxygen Mask, do the steps that follow:
 - NOTE: When packing masks on the airplane, the oxygen box will remain in the installed position with the mask door open. This procedure will require two (2) people to coil, fold and place the masks in the box.
 - (a) Put headband lengthwise onto the open bag and then fold the bag into thirds over the headband.
 - (b) Grab all mask hoses from one manifold at a point approximately 6 inches away from the manifold and begin coiling hoses into a 4 to 5 inch diameter bundle.
 - 1) Stop coiling just prior to the point where the lanyards attach to the hoses.
 - 2) Temporarily restrain the hose bundle with a large rubber band.
 - 3) Ensure no lanyard is tangled in hose bundle
 - (c) Push in and flatten opposite sides of each mask, forming points of the remaining mask area.
 - (d) Arrange the flattened masks together, one inside of another.
 - (e) Wrap bags, as a bundle, around the masks.
 - (f) Rotate the masks so that the reservoir bag bundle will be next to the P-clamp and the hoses will be directed toward the center of the box (near the latch actuator).
 - (g) Make sure that the lanyards are not tangled and are positioned behind the masks, against the top of the box.
 - (h) Position mask tandem parallel to the long side of the box.
 - (i) The pointed cones created by the flattened masks should be facing towards the outboard wall of the box.
 - (j) Tuck the hose bundle into the empty space at the center of the oxygen box near the latch actuator.
 - 1) Make sure hose bundle, lanyards and firing cable are not entangled with each other or with the oxygen manifold or the latch actuator housing.
 - (k) For dual-manifold configuration, repeat these steps for the second set of masks while holding the first set inside the box.
 - 1) Position the second set of masks together and parallel to the short side of the box.

SUBTASK 35-21-12-410-003

- (2) To close the oxygen PSU mask box door, do the steps that follow:
 - (a) Support the masks put in the mask box with the outstretched fingers of one hand while the door is raised toward the closed position with the other.
 - (b) Reset door latch/actuator by pivoting the lever arm until it engages with the magnet.
 - (c) As the door approaches the closed position, remove the hand supporting the packed mask assemblies (the masks will fall against the mask box door).
 - (d) When optional temporary rubber bands are used, do these steps:
 - 1) With the door slightly open, use a tool to cut the optional rubber bands retaining the packed mask assemblies, and remove the rubber band.
 - (e) Test the door to confirm the correct packing of the masks:
 - From an almost closed position, swing door approximately 2 inches down and up several times.

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- Observe that the masks and hose bundle move with the door to assure that the masks will free fall.
 - Use a flashlight and mirror to make sure that the mask hoses do not become pinched between the door rib and the lower flange of the oxygen mask box shell.



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.

(f) Close the door until the door latch engages.

NOTE: A misfaired door can show that some items are pinched between the door and the oxygen box or between the door and the actuator mounting bracket.

- 1) Visually examine the misfairing of the door to the box.
- 2) Make sure that a pinching condition does not exist.

SUBTASK 35-21-12-860-001

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

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	3	C35403	L PAX OXY
Α	4	C35405	C PAX OXY
Α	5	C35404	R PAX OXY
Н	3	C35606	CHAN A OXY DEPLOY
Н	4	C35607	CHAN B OXY DEPLOY

SUBTASK 35-21-12-440-002

(4) To activate the oxygen generator and close the PSU, do the following task:

Main Cabin Outboard Oxygen PSU Oxygen Generator Firing Mechanism Activation, TASK 35-21-13-440-801



TASK 35-21-12-000-803

- 13. Main Cabin Center Oxygen PSU Removal
 - A. General
 - (1) This procedure removes the Main Deck Center Oxygen PSUs.
 - B. References

Reference	Title
25-23-01-010-801	Passenger Service Unit (PSU) Opening (P/B 201)
25-23-01-010-802	Passenger Service Unit (PSU) - Removal (P/B 401)

C. Location Zones

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Zone	Area
200	Upper Half of Fuselage

D. Preparation

NOTE: Reference the figure:

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Main Cabin Center Oxygen PSU Location/Figure 201

SUBTASK 35-21-12-800-054

- (1) Get access to the appropriate PSU as follows:
 - (a) The Main Cabin Center Oxygen PSUs are located below the center stow bins, above each seat.

SUBTASK 35-21-12-865-008

(2) Open these circuit breakers and install safety tags:

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	3	C35403	L PAX OXY
Α	4	C35405	C PAX OXY
Α	5	C35404	R PAX OXY
Н	3	C35606	CHAN A OXY DEPLOY
Н	4	C35607	CHAN B OXY DEPLOY

SUBTASK 35-21-12-010-010

(3) To open the oxygen Passenger Service Unit (PSU) for maintenance or removal, do this task: Passenger Service Unit (PSU) Opening, TASK 25-23-01-010-801.

E. Procedure

NOTE: Reference the figures:

Main Cabin Center Oxygen PSU Mask Packing/Figure 207 or Main Cabin Center Oxygen PSU Mask Packing/Figure 208

SUBTASK 35-21-12-020-003

(1) To remove the oxygen PSU, do this task: Passenger Service Unit (PSU) - Removal, TASK 25-23-01-010-802.

SUBTASK 35-21-12-420-008

(2) When required, do the task.

Main Cabin Center Oxygen PSU Installation, TASK 35-21-12-400-804

----- END OF TASK -----

TASK 35-21-12-400-804

14. Main Cabin Center Oxygen PSU Installation

A. General

(1) This procedure installs the Main Cabin Center Oxygen PSUs.

B. References

Reference	Title
25-23-01-400-801	Passenger Service Unit (PSU) - Installation (P/B 401)
25-23-01-410-801	Passenger Service Unit (PSU) Closing (P/B 201)
35-21-00-710-801	Oxygen Box Door Latch/Actuator Operational Test (P/B 501)

C. Location Zones

Zone	Area	
200	Upper Half of Fuselage	

D. Preparation

NOTE: Reference the figure:

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Main Cabin Center Oxygen PSU Location/Figure 201

SUBTASK 35-21-12-800-059

- (1) Get access to the appropriate PSU as follows:
 - (a) The Main Cabin Center Oxygen PSUs are located below the center stow bins, above each seat.

SUBTASK 35-21-12-865-009

(2) Open these circuit breakers and install safety tags:

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	3	C35403	L PAX OXY
Α	4	C35405	C PAX OXY
Α	5	C35404	R PAX OXY
Н	3	C35606	CHAN A OXY DEPLOY
Н	4	C35607	CHAN B OXY DEPLOY

E. Procedure

SUBTASK 35-21-12-420-009

- (1) Install the oxygen Passenger Service Unit (PSU) after removing for maintenance.
 - (a) Do this task: Passenger Service Unit (PSU) Installation, TASK 25-23-01-400-801.

SUBTASK 35-21-12-211-009

(2) Make sure that the release pin is installed correctly (Main Cabin Center Oxygen PSU Oxygen Generator Firing Mechanism Detailed Visual Inspection, TASK 35-21-12-200-801).

SUBTASK 35-21-12-410-004

- (3) Close the PSU after maintenance is complete:
 - (a) Do this task: Passenger Service Unit (PSU) Closing, TASK 25-23-01-410-801.

SUBTASK 35-21-12-865-010

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

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	3	C35403	L PAX OXY
Α	4	C35405	C PAX OXY
Α	5	C35404	R PAX OXY
Н	3	C35606	CHAN A OXY DEPLOY
Н	4	C35607	CHAN B OXY DEPLOY

SUBTASK 35-21-12-710-001

(5) To test the integrity of the Passenger Oxygen System, do this task: Oxygen Box Door Latch/Actuator Operational Test, TASK 35-21-00-710-801.



TASK 35-21-12-000-804

15. Main Cabin Center Oxygen PSU Mask Box Door Latch Actuator Removal

A. General

(1) This procedure removes the Main Deck Center Oxygen Passenger Service Unit (PSU) mask box door latch actuator.

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B. References

C.

Reference	Title
25-23-01-010-801	Passenger Service Unit (PSU) Opening (P/B 201)
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

D. Location Zones

Zone	Area
200	Upper Half of Fuselage

E. Preparation

NOTE: Reference the figure:

Main Cabin Center Oxygen PSU Location/Figure 201

SUBTASK 35-21-12-800-063

- (1) Get access to the appropriate PSU as follows:
 - (a) The Main Cabin Center Oxygen PSUs are located below the center stow bins, above each seat.

SUBTASK 35-21-12-865-011

(2) Open these circuit breakers and install safety tags:

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	3	C35403	L PAX OXY
Α	4	C35405	C PAX OXY
Α	5	C35404	R PAX OXY
Н	3	C35606	CHAN A OXY DEPLOY
Н	4	C35607	CHAN B OXY DEPLOY

SUBTASK 35-21-12-010-011

- (3) To open an oxygen PSU oxygen mask box for maintenance, do the steps that follow:
 - (a) Insert the 0.090 in to 0.125 in diameter 6 in length rod, STD-4241 through the access hole in the PSU oxygen mask box door to disengage the door latch/actuator.
 - (b) Open the PSU oxygen mask box door.

NOTE: The masks will fall from the mask box.

SUBTASK 35-21-12-010-012

(4) To open the oxygen Passenger Service Unit (PSU) for maintenance or removal, do this task: Passenger Service Unit (PSU) Opening, TASK 25-23-01-010-801.

F. Procedure

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NOTE: Reference the figure:

Main Cabin Center Oxygen PSU Mask Door Latch Removal / Installation/Figure 209

SUBTASK 35-21-12-020-004

- (1) To remove the oxygen mask door latch actuator [4] from an oxygen PSU, do the steps that follow:
 - (a) Disconnect the electrical receptacle [3].

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- (b) Loosen the screws [2].
- (c) Disconnect the wiring from the electrical receptacle [3].
- (d) Be careful to not damage the oxygen mask while you work in the oxygen box.
- (e) Remove the screws [5] from the door latch actuator [4].
- (f) Remove the door latch actuator [4].

NOTE: The electrical wiring can be removed through the access hole when you remove the door latch actuator.

——— END OF TASK ———

TASK 35-21-12-400-805

16. Main Cabin Center Oxygen PSU Mask Box Door Latch Actuator Installation

A. General

(1) This procedure installs the Main Deck Center Oxygen Passenger Service Unit (PSU) mask box door latch actuator.

B. References

Reference	Title
25-23-01-010-801	Passenger Service Unit (PSU) Opening (P/B 201)
35-21-00-710-801	Oxygen Box Door Latch/Actuator Operational Test (P/B 501)

C. 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	

D. Location Zones

Zone	Area
200	Upper Half of Fuselage

E. Preparation

NOTE: Reference the figure:

Main Cabin Center Oxygen PSU Location/Figure 201

SUBTASK 35-21-12-800-069

- (1) Get access to the appropriate PSU as follows:
 - (a) The Main Cabin Center Oxygen PSUs are located below the center stow bins, above each seat.

SUBTASK 35-21-12-010-013

- (2) To open an oxygen PSU oxygen mask box for maintenance, do the steps that follow:
 - (a) Insert the 0.090 in to 0.125 in diameter 6 in length rod, STD-4241 through the access hole in the PSU oxygen mask box door to disengage the door latch/actuator.
 - (b) Open the PSU oxygen mask box door.

NOTE: The masks will fall from the mask box.

SUBTASK 35-21-12-010-014

(3) To open the oxygen Passenger Service Unit (PSU) for maintenance or removal, do this task: Passenger Service Unit (PSU) Opening, TASK 25-23-01-010-801.

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F. Procedure

NOTE: Reference the figure:

Main Cabin Center Oxygen PSU Mask Door Latch Removal / Installation/Figure 209

SUBTASK 35-21-12-420-011

- (1) To install the oxygen mask door latch actuator [4] into an oxygen PSU, do the steps that follow:
 - (a) Put the electrical wiring through the access hole in the oxygen box.
 - (b) Connect the electrical wiring to the electrical receptacle [3].
 - (c) Be careful to not damage the hanging oxygen mask while you work in the oxygen box.
 - (d) Install the screws [2] to attach the door latch actuator [4].
 - (e) Tighten the screws [2], into the oxygen box.
 - (f) Close the oxygen box door.
 - (g) Visually examine the misfairing of the door to the box

NOTE: A misfaired door can show that some items are pinched between the door and the oxygen box or between the door and the actuator mounting bracket.

- (h) Make sure that a pinching condition does not exist.
- (i) Connect the electrical receptacle [3].

SUBTASK 35-21-12-420-012

(2) When the installation is complete, do this task:

Main Cabin Center Oxygen PSU Oxygen Mask Packing, TASK 35-21-12-400-803

SUBTASK 35-21-12-410-005

- (3) To close the oxygen PSU mask box door, do the steps that follow:
 - (a) Support the masks put in the mask box with the outstretched fingers of one hand while the door is raised toward the closed position with the other.
 - (b) Reset door latch/actuator by pivoting the lever arm until it engages with the magnet.
 - (c) As the door approaches the closed position, remove the hand supporting the packed mask assemblies (the masks will fall against the mask box door).
 - (d) When optional temporary rubber bands are used, do these steps:
 - 1) With the door slightly open, use a tool to cut the optional rubber bands retaining the packed mask assemblies, and remove the rubber band.
 - (e) Test the door to confirm the correct packing of the masks:
 - 1) From an almost closed position, swing door approximately 2 inches down and up several times.
 - 2) Observe that the masks and hose bundle move with the door to assure that the masks will free fall.
 - Use a flashlight and mirror to make sure that the mask hoses do not become pinched between the door rib and the lower flange of the oxygen mask box shell.





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.

(f) Close the door until the door latch engages.

NOTE: A misfaired door can show that some items are pinched between the door and the oxygen box or between the door and the actuator mounting bracket.

- 1) Visually examine the misfairing of the door to the box.
- 2) Make sure that a pinching condition does not exist.

SUBTASK 35-21-12-865-012

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

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	3	C35403	L PAX OXY
Α	4	C35405	C PAX OXY
Α	5	C35404	R PAX OXY
Н	3	C35606	CHAN A OXY DEPLOY
Н	4	C35607	CHAN B OXY DEPLOY

SUBTASK 35-21-12-710-002

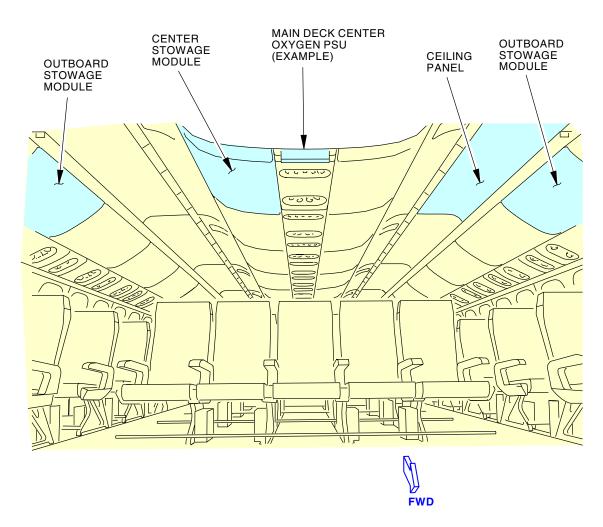
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(5) To test the integrity of the Passenger Oxygen Door Latch, do this task:Oxygen Box Door Latch/Actuator Operational Test, TASK 35-21-00-710-801.

----- END OF TASK -----





PASSENGER COMPARTMENT (EXAMPLE)

W45710 S0000123824_V2

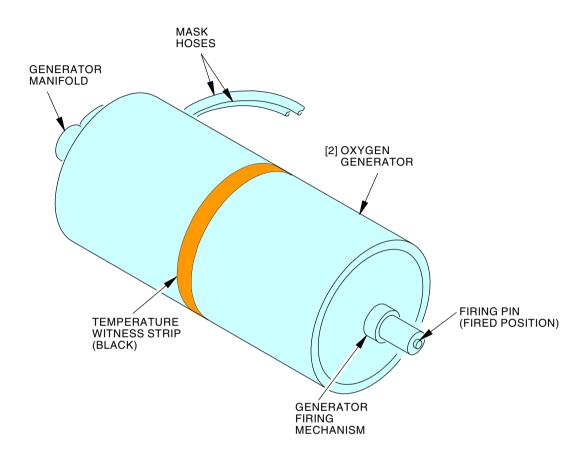
Main Cabin Center Oxygen PSU Location Figure 201/35-21-12-990-843

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OXYGEN GENERATOR FIRED (EXPENDED) (EXAMPLE)

W44682 S0000118444_V3

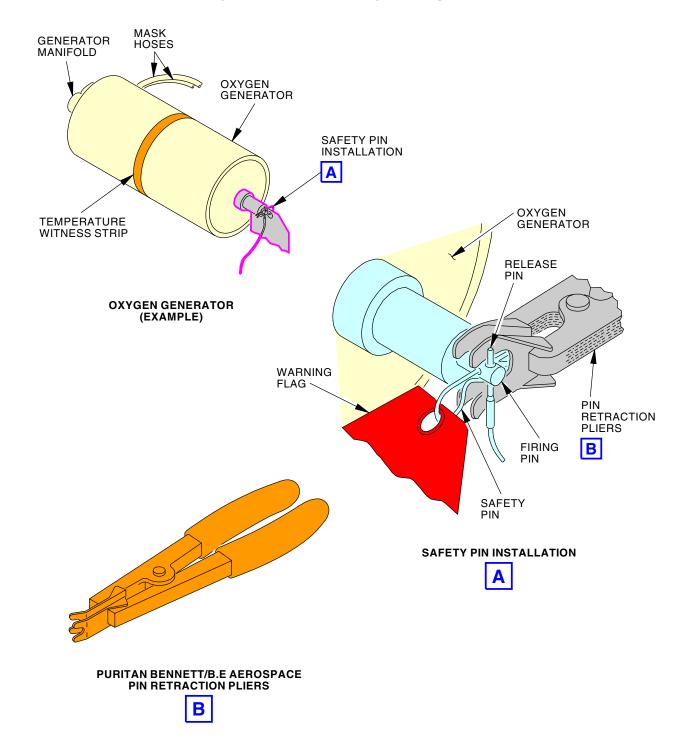
Main Cabin Center Oxygen PSU Generator Fired Inspection Figure 202/35-21-12-990-844

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W44715 S0000118441_V2

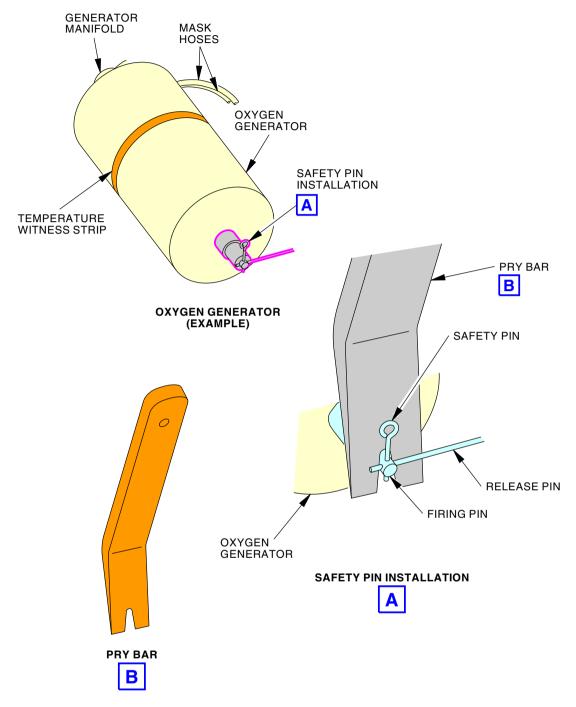
Main Cabin Center Oxygen PSU Generator Firing Mechanism Activation / Deactivation Figure 203/35-21-12-990-845 (Sheet 1 of 2)

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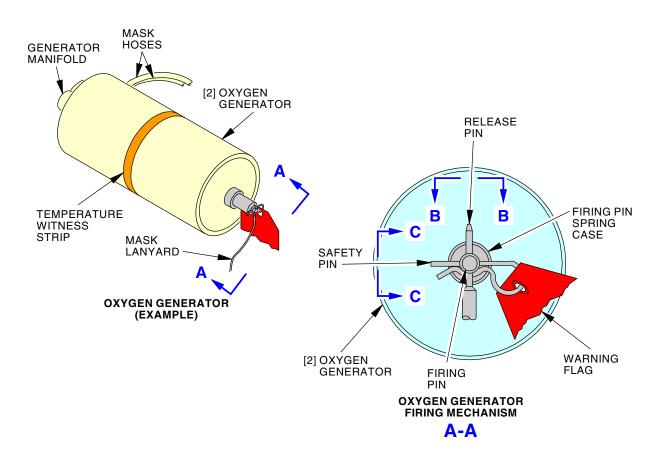


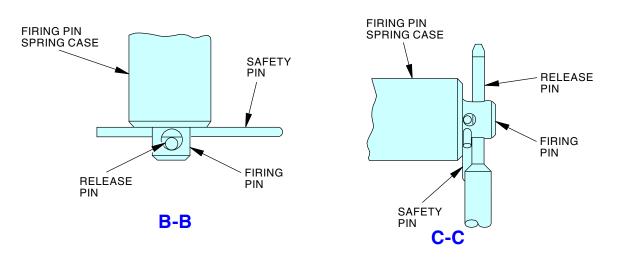
2571575 S0000617297_V1

Main Cabin Center Oxygen PSU Generator Firing Mechanism Activation / Deactivation Figure 203/35-21-12-990-845 (Sheet 2 of 2)

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W44691 S0000122056_V3

Main Cabin Center Oxygen PSU Generator Firing Mechanism Inspection Figure 204/35-21-12-990-846

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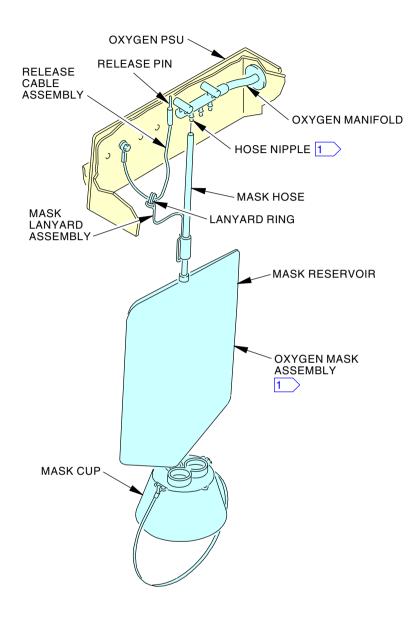
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CHEMICAL OXYGEN MASK (EXAMPLE)



W47403 S0000118693_V3

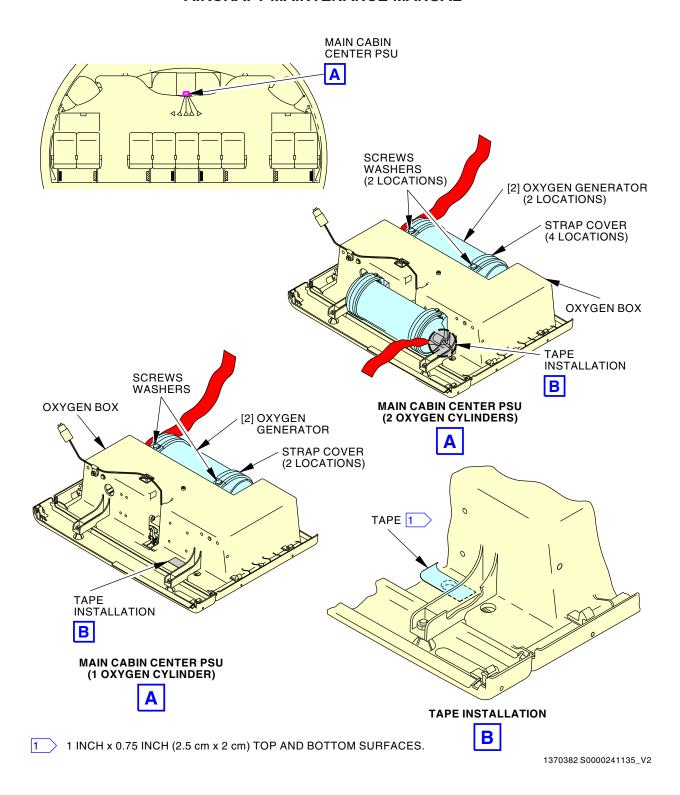
Main Cabin Center Oxygen PSU Mask Removal / Installation Figure 205/35-21-12-990-850

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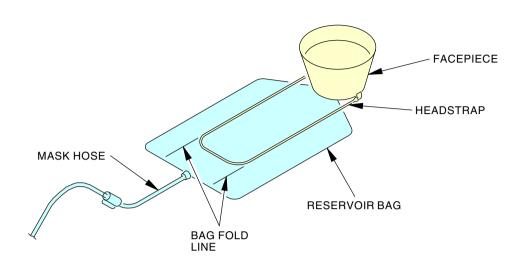
Main Cabin Center Oxygen PSU Generator Removal/Installation Figure 206/35-21-12-990-858

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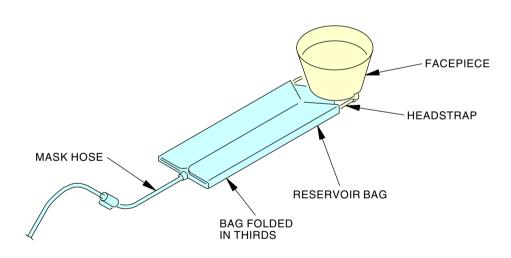
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STEP 1



STEP 2

W45658 S0000117718_V2

Main Cabin Center Oxygen PSU Mask Packing Figure 207/35-21-12-990-856

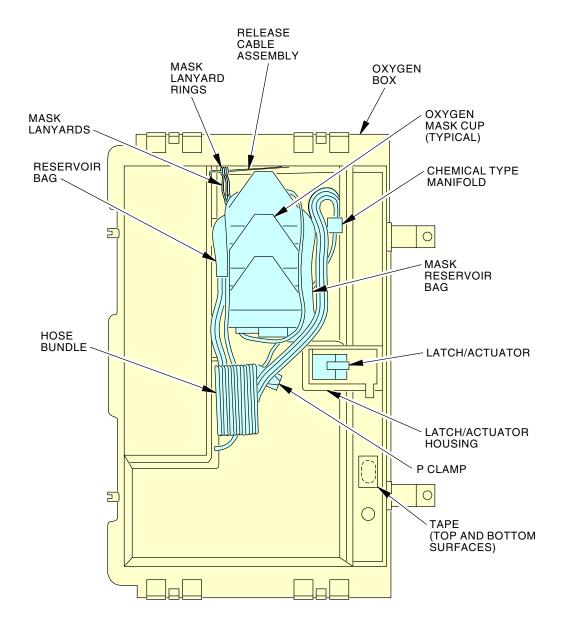
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MAIN CABIN CENTER OXYGEN PSU THREE-MASK CONFIGURATION

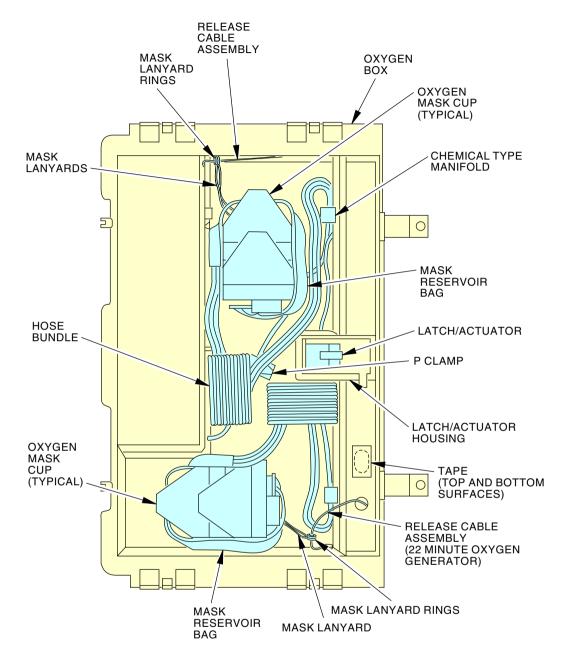
1370482 S0000241184_V3

Main Cabin Center Oxygen PSU Mask Packing Figure 208/35-21-12-990-855 (Sheet 1 of 5)

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MAIN CABIN CENTER OXYGEN PSU FOUR-MASK CONFIGURATION (22 MINUTE OXYGEN GENERATORS)

1370488 S0000241185_V3

Main Cabin Center Oxygen PSU Mask Packing Figure 208/35-21-12-990-855 (Sheet 2 of 5)

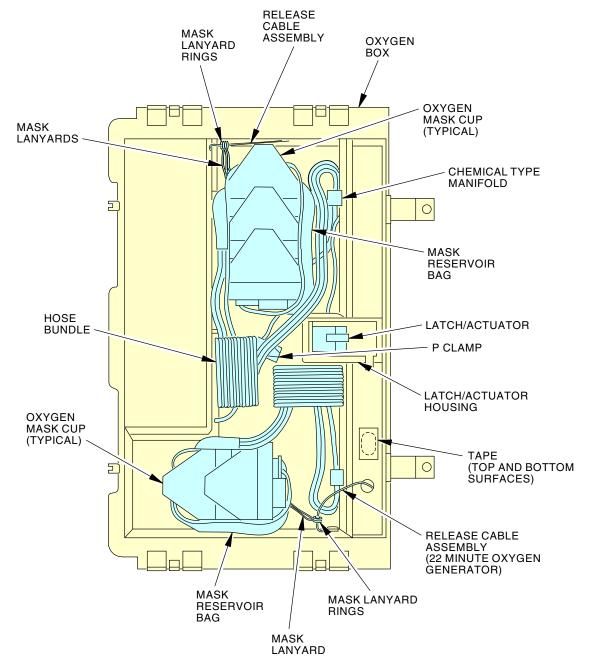
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MAIN CABIN CENTER OXYGEN PSU 5-MASK CONFIGURATION (22 MINUTE OXYGEN GENERATORS)

1523039 S0000278750_V4

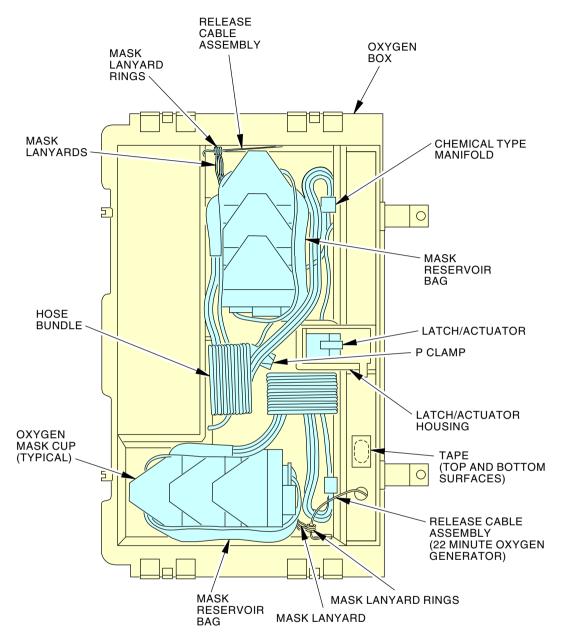
Main Cabin Center Oxygen PSU Mask Packing Figure 208/35-21-12-990-855 (Sheet 3 of 5)

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MAIN CABIN CENTER OXYGEN PSU SIX-MASK CONFIGURATION (22 MINUTE OXYGEN GENERATORS)

1370514 S0000241186_V3

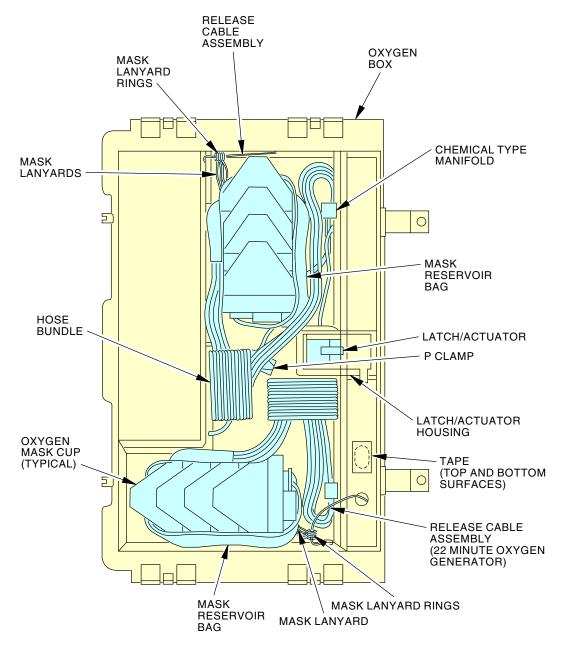
Main Cabin Center Oxygen PSU Mask Packing Figure 208/35-21-12-990-855 (Sheet 4 of 5)

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MAIN CABIN CENTER OXYGEN PSU EIGHT-MASK CONFIGURATION

1370530 S0000241187_V3

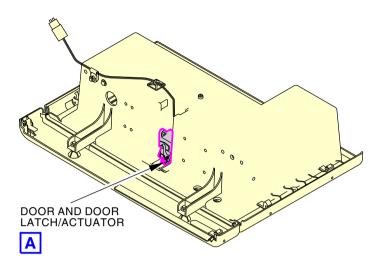
Main Cabin Center Oxygen PSU Mask Packing Figure 208/35-21-12-990-855 (Sheet 5 of 5)

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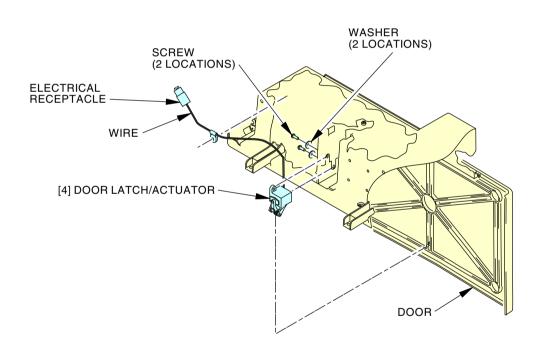
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MAIN CABIN CENTER OXYGEN BOX



DOOR AND DOOR LATCH/ACTUATOR



1304802 S0000222485_V2

Main Cabin Center Oxygen PSU Mask Door Latch Removal / Installation Figure 209/35-21-12-990-849

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MAIN CABIN OUTBOARD OXYGEN PSU - MAINTENANCE PRACTICES

1. General

- A. This procedure describes the maintenance tasks for the main cabin outboard mounted oxygen passenger service units (PSUs).
- B. The following Main Cabin Outboard Oxygen PSU maintenance tasks are provided:
 - (1) Oxygen Generator Firing Mechanism Deactivation
 - (2) Oxygen Generator Firing Mechanism Activation
 - (3) Oxygen Generator Firing Mechanism Detailed Visual Inspection
 - (4) Oxygen Generator Removal
 - (5) Oxygen Generator Installation
 - (6) Oxygen Generator Check
 - (7) Oxygen Mask Removal
 - (8) Oxygen Mask Installation
 - (9) Oxygen Mask Inspection
 - (10) Oxygen Mask Cleaning
 - (11) Oxygen Mask Packing
 - (12) Oxygen PSU Removal
 - (13) Oxygen PSU Installation
 - (14) Oxygen PSU Mask Box Door Latch Removal
 - (15) Oxygen PSU Mask Box Door Latch Installation
- C. Do not conduct any maintenance operations on an Oxygen PSU without first deactivating each oxygen generators firing mechanism.

TASK 35-21-13-040-801

2. Main Cabin Outboard Oxygen PSU Oxygen Generator Firing Mechanism Deactivation

A. General

- (1) This procedure deactivates the chemical oxygen generator firing mechanism prior to conducting maintenance in the Main Cabin Outboard Oxygen PSUs.
- (2) Do not conduct any maintenance operations on an Oxygen PSU without first deactivating each oxygen generators firing mechanism.
- (3) Each oxygen passenger service unit (PSU) has at least one chemical oxygen generator. The generator, when ignited, supplies oxygen to each of the connected masks. Each generator has a temperature witness strip around the units body to show if the oxygen generator has previously expended or fired. The generator will start the oxygen flow when the mask is pulled downward, provided that the safety pin is removed from the firing mechanism.
- (4) All replacement chemical oxygen generators are supplied with a safety pin. The safety pin is installed in the firing mechanism of the oxygen generator. The generator cannot ignite (start oxygen flow) when the safety pin is correctly installed. The generator is safe to handle when the safety pin is installed.
- (5) In addition to the safety pin, a secondary safety device is used for the transport of spare oxygen generators This secondary safety device must be removed from the firing mechanisms release pin hole, before the release pin can be installed.

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- (6) The safety pin has to be installed in the oxygen generator firing mechanism (oxygen generator deactivation) whenever the oxygen generator or the oxygen passenger service unit is to be removed from the airplane, or when any other oxygen passenger service unit (PSU) maintenance is to be performed.
- (7) Once either the oxygen generator or the oxygen passenger service unit (PSU) is installed, and other maintenance to the PSU is complete, the safety pin is to be removed from the generator firing mechanism (oxygen generator activation).

B. References

Reference	Title
25-23-01-010-801	Passenger Service Unit (PSU) Opening (P/B 201)
35-21-11-000-801	Attendant /Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Removal (P/B 201)
35-21-11-400-801	Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Installation (P/B 201)
35-21-12-000-801	Main Cabin Center Oxygen PSU Oxygen Generator Removal (P/B 201)
35-21-12-400-801	Main Cabin Center Oxygen PSU Oxygen Generator Installation (P/B 201)

C. Tools/Equipment

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

Reference	Description
COM-752	Safety Pin and Flag - Chemical Oxygen Generator
	Part #: E71401-00 Supplier: D1379 Opt Part #: E71401 Supplier: D1379
COM-1935	Pliers - Firing Pin Retraction
	Part #: C35004-1 Supplier: 81205 Part #: E71516-00 Supplier: D1379
SPL-1937	Equipment - Firing Pin Retraction, BE Aerospace and AVOX oxygen generators
	Part #: C35003-10 Supplier: 81205 Part #: C35004-1 Supplier: 81205 Opt Part #: A35001-13 Supplier: 81205

D. Location Zones

Zone	Area
200	Upper Half of Fuselage

E. Preparation

NOTE: Reference the figures:

Main Cabin Outboard Oxygen PSU Location/Figure 201

Main Cabin Outboard Oxygen PSU Generator Fired Inspection/Figure 202

SUBTASK 35-21-13-800-001

- (1) Get access to the appropriate PSU as follows:
 - (a) The Main Cabin Outboard Oxygen PSUs are located below the outboard stow bins, above each seat.

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SUBTASK 35-21-13-862-001

(2) Open these circuit breakers and install safety tags:

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	3	C35403	L PAX OXY
Α	4	C35405	C PAX OXY
Α	5	C35404	R PAX OXY
Н	3	C35606	CHAN A OXY DEPLOY
Н	4	C35607	CHAN B OXY DEPLOY

SUBTASK 35-21-13-010-001

(3) To open the oxygen Passenger Service Unit (PSU) for maintenance or removal, do this task: Passenger Service Unit (PSU) Opening, TASK 25-23-01-010-801.

SUBTASK 35-21-13-210-001

- (4) Examine the oxygen generator [2] to determine if it has been previously fired.
 - (a) Any of the following conditions indicate that the oxygen generator has been fired (expended):
 - 1) The heat sensitive paint found on the generator exterior has turned black, and/or,
 - 2) The release pin is no longer engaged with the firing pin, and/or,
 - 3) The firing pin has retracted into the firing mechanism so that the release pin hole is no longer visible on the firing pin.



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 INJURY OR DEATH TO PERSONS AND DAMAGE TO EQUIPMENT.

(5) If the oxygen generator has been fired (expended), process the expended generator as appropriate, and replace the oxygen generator with new.

NOTE: Deactivation of a fired (expended) generator is neither possible, nor necessary. Once the expended generator has cooled, it can be safely handled and processed.

(a) To replace the fired (expended) generator, select the appropriate task:

Attendant /Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Removal, TASK 35-21-11-000-801

Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Installation, TASK 35-21-11-400-801

Main Cabin Center Oxygen PSU Oxygen Generator Removal, TASK 35-21-12-000-801

Main Cabin Center Oxygen PSU Oxygen Generator Installation, TASK 35-21-12-400-801

Main Cabin Outboard Oxygen PSU Oxygen Generator Removal,

TASK 35-21-13-000-801

Main Cabin Outboard Oxygen PSU Oxygen Generator Installation, TASK 35-21-13-400-801

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F. Procedure

NOTE: Reference the figures:

Main Cabin Outboard Oxygen PSU Generator Firing Mechanism Activation / Deactivation/Figure 203

SUBTASK 35-21-13-040-001

- (1) To deactivate the chemical oxygen generator [2], do the steps that follow:
 - (a) Put the firing pin retraction pliers and safety pin, SPL-1937 (for B/E Aerospace and AVOX Systems oxygen generator) or firing pin retraction pliers, COM-1935 (for Drager oxygen generator) between the release pin and the firing pin.
 - (b) Put the firing pin retraction pliers, COM-1935 between the release pin and the firing pin.
 - (c) Using the pliers, carefully extract the firing pin from the generator firing mechanism, until the safety pin hole becomes visible.

NOTE: The safety pin hole is the smaller of the two holes located on the firing pin.

NOTE: Do not release the firing pin retraction pliers.



MAKE SURE THAT THE RELEASE PIN IS INSTALLED IN THE LARGER OF THE TWO HOLES, AND THAT THE SAFETY PIN IS INSTALLED IN THE SMALLER OF THE TWO HOLES LOCATED IN THE FIRING PIN. FAILURE TO INSTALL THE PINS COULD PREVENT THE OXYGEN GENERATOR FROM FIRING WHEN THE OXYGEN MASKS ARE ACTUATED.

(d) Install the safety pin and flag, COM-752 or equivalent into the safety pin hole located in the firing pin.

NOTE: The safety pin hole is the smaller of the two holes located on the firing pin.

- (e) Carefully release the firing pin retraction pliers until the safety pin rests against the firing mechanism housing.
- (f) Remove the firing pin retraction pliers.

SUBTASK 35-21-13-800-005

(2) It is now safe to continue maintenance on the Oxygen PSU.

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TASK 35-21-13-440-801

3. Main Cabin Outboard Oxygen PSU Oxygen Generator Firing Mechanism Activation

A. General

- (1) This procedure activates the chemical oxygen generator firing mechanism after conducting maintenance in the Main Cabin Center Oxygen PSUs.
- (2) Each oxygen passenger service unit (PSU) has at least one chemical oxygen generator. The generator, when ignited, supplies oxygen to each of the connected masks. Each generator has a temperature witness strip around the units body to show if the oxygen generator has previously ignited (oxygen flow started) or not. The generator will start the oxygen flow when the mask is pulled downward, provided that the safety pin is removed from the firing mechanism.

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- (3) All replacement chemical oxygen generators are supplied with a safety pin. The safety pin is installed in the firing mechanism of the oxygen generator. The generator cannot ignite (start oxygen flow) when the safety pin is correctly installed. The generator is safe to handle when the safety pin is installed.
- (4) In addition to the safety pin, a secondary safety device is used for the transport of spare oxygen generators This secondary safety device must be removed from the firing mechanisms release pin hole, before the release pin can be installed.
- (5) The safety pin has to be installed in the oxygen generator firing mechanism (oxygen generator deactivation) whenever the oxygen generator or the oxygen passenger service unit is to be removed from the airplane, or when any other oxygen passenger service unit (PSU) maintenance is to be performed.
- (6) Once either the oxygen generator or the oxygen passenger service unit (PSU) is installed, and other maintenance to the PSU is complete, the safety pin is to be removed from the generator firing mechanism (oxygen generator activation).

B. References

Reference	Title
25-23-01-010-801	Passenger Service Unit (PSU) Opening (P/B 201)
35-21-11-200-801	Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Firing Mechanism Detailed Visual Inspection (P/B 201)
35-21-12-200-801	Main Cabin Center Oxygen PSU Oxygen Generator Firing Mechanism Detailed Visual Inspection (P/B 201)

C. Tools/Equipment

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

Reference	Description
COM-1935	Pliers - Firing Pin Retraction
	Part #: C35004-1 Supplier: 81205 Part #: E71516-00 Supplier: D1379
SPL-1937	Equipment - Firing Pin Retraction, BE Aerospace and AVOX oxygen generators
	Part #: C35003-10 Supplier: 81205 Part #: C35004-1 Supplier: 81205 Opt Part #: A35001-13 Supplier: 81205

D. Location Zones

Zone	Area
200	Upper Half of Fuselage

E. Preparation

NOTE: Reference the figure:

Main Cabin Outboard Oxygen PSU Location/Figure 201

SUBTASK 35-21-13-800-007

- (1) Get access to the appropriate PSU as follows:
 - (a) The Main Cabin Outboard Oxygen PSUs are located below the outboard stow bins, above each seat.

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SUBTASK 35-21-13-010-002

(2) To open the oxygen Passenger Service Unit (PSU) for maintenance or removal, do this task: Passenger Service Unit (PSU) Opening, TASK 25-23-01-010-801.

F. Procedure

NOTE: Reference the figures:

Main Cabin Outboard Oxygen PSU Generator Firing Mechanism Activation / Deactivation/Figure 203

Main Cabin Outboard Oxygen PSU Generator Firing Mechanism Inspection/Figure 204

SUBTASK 35-21-13-211-001

- (1) Before installing the release pin, visually inspect the pins general condition:
 - (a) Replace the release pin/cable assembly if it demonstrates any of the following conditions:
 - Galling
 - 2) Bends
 - 3) Corrosion.
 - 4) Nicks
 - 5) Scrapes

SUBTASK 35-21-13-440-001



DO NOT REMOVE THE SAFETY PIN IF THE RELEASE PIN IS NOT INSTALLED. IF THE SAFETY PIN IS REMOVED THE OXYGEN GENERATOR WILL FIRE, AND THE GENERATOR WOULD HAVE TO BE REPLACED.



MAKE SURE THAT THE RELEASE PIN IS INSTALLED IN THE LARGER OF THE TWO HOLES, AND THAT THE SAFETY PIN IS INSTALLED IN THE SMALLER OF THE TWO HOLES LOCATED IN THE FIRING PIN. FAILURE TO INSTALL THE PINS COULD PREVENT THE OXYGEN GENERATOR FROM FIRING WHEN THE OXYGEN MASKS ARE ACTUATED.

- (2) To activate a chemical oxygen generator, do the steps that follow:
 - (a) Engage the firing pin retraction pliers and relieve the pressure on the safety pin.
 - (b) Remove the firing pin retraction pliers and safety pin, SPL-1937 (for B/E Aerospace and AVOX Systems oxygen generator) or firing pin retraction pliers, COM-1935 (for Drager oxygen generator).
 - (c) Remove the firing pin retraction pliers, COM-1935.

SUBTASK 35-21-13-200-001

(3) To inspect the oxygen generator to be sure that firing mechanism has been correctly activated, and to close the oxygen PSU after completing maintenance, select the appropriate task:

Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Firing Mechanism Detailed Visual Inspection, TASK 35-21-11-200-801

Main Cabin Center Oxygen PSU Oxygen Generator Firing Mechanism Detailed Visual Inspection, TASK 35-21-12-200-801

Main Cabin Outboard Oxygen PSU Oxygen Generator Firing Mechanism Detailed Visual Inspection, TASK 35-21-13-211-801

------ END OF TASK ------

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TASK 35-21-13-211-801

4. Main Cabin Outboard Oxygen PSU Oxygen Generator Firing Mechanism Detailed Visual Inspection

A. General

- (1) This procedure inspects the chemical oxygen generator firing mechanism after conducting maintenance and activating the oxygen generators located in the Main Cabin Outboard Oxygen PSUs.
- (2) Each oxygen passenger service unit (PSU) has at least one chemical oxygen generator. The generator, when ignited, supplies oxygen to each of the connected masks. Each generator has a temperature witness strip around the units body to show if the oxygen generator has previously ignited (oxygen flow started) or not. The generator will start the oxygen flow when the mask is pulled downward, provided that the safety pin is removed from the firing mechanism.
- (3) All replacement chemical oxygen generators are supplied with a safety pin. The safety pin is installed in the firing mechanism of the oxygen generator. The generator cannot ignite (start oxygen flow) when the safety pin is correctly installed. The generator is safe to handle when the safety pin is installed.
- (4) In addition to the safety pin, a secondary safety device is used for the transport of spare oxygen generators This secondary safety device must be removed from the firing mechanisms release pin hole, before the release pin can be installed.
- (5) The safety pin has to be installed in the oxygen generator firing mechanism (oxygen generator deactivation) whenever the oxygen generator or the oxygen passenger service unit is to be removed from the airplane, or when any other oxygen passenger service unit (PSU) maintenance is to be performed.
- (6) Once either the oxygen generator or the oxygen passenger service unit (PSU) is installed, and other maintenance to the PSU is complete, the safety pin is to be removed from the generator firing mechanism (oxygen generator activation).

B. References

Reference	Title
25-23-01-010-801	Passenger Service Unit (PSU) Opening (P/B 201)
25-23-01-410-801	Passenger Service Unit (PSU) Closing (P/B 201)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Preparation

NOTE: Reference the figure:

Main Cabin Outboard Oxygen PSU Location/Figure 201

SUBTASK 35-21-13-800-012

- (1) Get access to the appropriate PSU as follows:
 - (a) The Main Cabin Outboard Oxygen PSUs are located below the outboard stow bins, above each seat.

SUBTASK 35-21-13-010-003

(2) To open the oxygen Passenger Service Unit (PSU) for maintenance or removal, do this task: Passenger Service Unit (PSU) Opening, TASK 25-23-01-010-801.

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E. Procedure

NOTE: Reference the figure:

Main Cabin Outboard Oxygen PSU Generator Firing Mechanism Inspection/Figure 204

SUBTASK 35-21-13-211-002

- (1) To inspect the oxygen generator firing mechanism for proper activation, make sure that the following conditions have been met:
 - (a) The release cable is routed through each mask lanyard ring.



IN ADDITION TO THE SAFETY PIN, A SECONDARY SAFETY DEVICE IS USED FOR THE TRANSPORT OF SPARE OXYGEN GENERATOR. THIS SECONDARY SAFETY DEVICE MUST BE REMOVED FROM THE FIRING PINS RELEASE PIN HOLE BEFORE THE RELEASE PIN CAN BE INSTALLED. FAILURE TO DO SO COULD PREVENT THE OXYGEN GENERATOR FROM FIRING WHEN THE OXYGEN MASKS ARE ACTUATED.

- (b) The secondary safety device has been removed from the larger of the two holes in the firing pin.
- (c) The release pin is inserted in the larger of the two holes in the firing pin.
- (d) The release pin is positioned against the generator firing mechanism spring housing.
- (e) The safety pin and warning flag is not present in the firing pin
- (2) If any of the above conditions have not been met, the oxygen generator must be deactivated before corrections can be made.

SUBTASK 35-21-13-410-001

- (3) Close the PSU after maintenance is complete:
 - (a) Do this task: Passenger Service Unit (PSU) Closing, TASK 25-23-01-410-801.

SUBTASK 35-21-13-861-001

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

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	3	C35403	L PAX OXY
Α	4	C35405	C PAX OXY
Α	5	C35404	R PAX OXY
Н	3	C35606	CHAN A OXY DEPLOY
Н	4	C35607	CHAN B OXY DEPLOY

SUBTASK 35-21-13-741-001

(5) The activated oxygen PSU can now be returned to service.



TASK 35-21-13-000-801

5. Main Cabin Outboard Oxygen PSU Oxygen Generator Removal

NOTE: This procedure is a scheduled maintenance task.

A. General

(1) This procedure removes the chemical oxygen generator from the Main Cabin Outboard Oxygen PSUs.

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B. References

Reference	Title
25-23-01-010-801	Passenger Service Unit (PSU) Opening (P/B 201)
35-21-11-040-801	Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Firing Mechanism Deactivation (P/B 201)
35-21-12-040-801	Main Cabin Center Oxygen PSU Oxygen Generator Firing Mechanism Deactivation (P/B 201)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Preparation

NOTE: Reference the figure:

Main Cabin Outboard Oxygen PSU Location/Figure 201

SUBTASK 35-21-13-800-017

- (1) Get access to the appropriate PSU as follows:
 - (a) The Main Cabin Outboard Oxygen PSUs are located below the outboard stow bins, above each seat.

SUBTASK 35-21-13-862-002

(2) Open these circuit breakers and install safety tags:

Standby Power Management Panel, P310

Row	Col	Number	Name
	3	C35403	L PAX OXY
Α	4	C35405	C PAX OXY
Α	5	C35404	R PAX OXY
Н	3	C35606	CHAN A OXY DEPLOY
Н	4	C35607	CHAN B OXY DEPLOY

SUBTASK 35-21-13-010-004

(3) To open the oxygen Passenger Service Unit (PSU) for maintenance or removal, do this task: Passenger Service Unit (PSU) Opening, TASK 25-23-01-010-801.

E. Procedure

NOTE: Reference the figure:

Main Cabin Outboard Oxygen PSU Mask Removal / Installation/Figure 206

SUBTASK 35-21-13-040-002

- (1) Make sure the oxygen generator [2] firing mechanism is deactivated (safety pin installed) prior to conducting any maintenance on the Oxygen PSU.
 - (a) To deactivate the oxygen generator, select the appropriate task:

Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Firing Mechanism Deactivation, TASK 35-21-11-040-801

Main Cabin Outboard Oxygen PSU Oxygen Generator Firing Mechanism Deactivation, TASK 35-21-13-040-801

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Main Cabin Center Oxygen PSU Oxygen Generator Firing Mechanism Deactivation, TASK 35-21-12-040-801

NOTE: Deactivation of a fired (expended) generator is neither possible, nor necessary. Once the expended generator has cooled, it can be safely handled and processed.

SUBTASK 35-21-13-020-001

- (2) To remove the generator [2] from the oxygen PSU, do the steps that follow:
 - (a) Make sure the oxygen generator [2] firing mechanism is deactivated (the safety pin is installed).
 - (b) Disconnect the oxygen hoses from the generator [2].
 - (c) Remove the screw and washer from the strap cover.
 - (d) Pull back the strap cover.



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 INJURY OR DEATH TO PERSONS AND DAMAGE TO EQUIPMENT.

(e) Remove the generator

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TASK 35-21-13-400-801

6. Main Cabin Outboard Oxygen PSU Oxygen Generator Installation

NOTE: This procedure is a scheduled maintenance task.

A. General

(1) This procedure installs the chemical oxygen generator into the Main Cabin Outboard Oxygen PSUs.

B. References

Reference	Title
25-23-01-010-801	Passenger Service Unit (PSU) Opening (P/B 201)
35-21-11-000-801	Attendant /Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Removal (P/B 201)
35-21-11-040-801	Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Firing Mechanism Deactivation (P/B 201)
35-21-11-400-801	Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Installation (P/B 201)
35-21-12-000-801	Main Cabin Center Oxygen PSU Oxygen Generator Removal (P/B 201)
35-21-12-040-801	Main Cabin Center Oxygen PSU Oxygen Generator Firing Mechanism Deactivation (P/B 201)
35-21-12-400-801	Main Cabin Center Oxygen PSU Oxygen Generator Installation (P/B 201)

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C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Preparation

NOTE: Reference the figure:

Main Cabin Outboard Oxygen PSU Location/Figure 201

SUBTASK 35-21-13-800-019

- (1) Get access to the appropriate PSU as follows:
 - (a) The Main Cabin Center Oxygen PSUs are located below the center stow bins, above each seat.

SUBTASK 35-21-13-862-003

(2) Open these circuit breakers and install safety tags:

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	3	C35403	L PAX OXY
Α	4	C35405	C PAX OXY
Α	5	C35404	R PAX OXY
Н	3	C35606	CHAN A OXY DEPLOY
Н	4	C35607	CHAN B OXY DEPLOY

SUBTASK 35-21-13-010-005

(3) To open the oxygen Passenger Service Unit (PSU) for maintenance or removal, do this task: Passenger Service Unit (PSU) Opening, TASK 25-23-01-010-801.

E. Procedure

NOTE: Reference the figures:

Main Cabin Outboard Oxygen PSU Generator Fired Inspection/Figure 202

Main Cabin Outboard Oxygen PSU Generator Firing Mechanism Activation / Deactivation/Figure 203

SUBTASK 35-21-13-040-003

- (1) Make sure the oxygen generator [2] firing mechanism is deactivated (safety pin installed) prior to conducting any maintenance on the Oxygen PSU.
 - (a) To deactivate the oxygen generator, select the appropriate task:

Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Firing Mechanism Deactivation, TASK 35-21-11-040-801

Main Cabin Outboard Oxygen PSU Oxygen Generator Firing Mechanism Deactivation, TASK 35-21-13-040-801

Main Cabin Center Oxygen PSU Oxygen Generator Firing Mechanism Deactivation, TASK 35-21-12-040-801

NOTE: Deactivation of a fired (expended) generator is neither possible, nor necessary.

Once the expended generator has cooled, it can be safely handled and processed.

SUBTASK 35-21-13-200-002

(2) Examine the oxygen generator [2] to determine if it has been previously fired.

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- (a) Any of the following conditions indicate that the oxygen generator has been fired (expended):
 - 1) The heat sensitive paint found on the generator exterior has turned black, and/or,
 - 2) The release pin is no longer engaged with the firing pin, and/or,
 - 3) The firing pin has retracted into the firing mechanism so that the release pin hole is no longer visible on the firing pin.



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 INJURY OR DEATH TO PERSONS AND DAMAGE TO EQUIPMENT.

(3) If the oxygen generator has been fired (expended), process the expended generator as appropriate, and replace the oxygen generator with new.

<u>NOTE</u>: Deactivation of a fired (expended) generator is neither possible, nor necessary. Once the expended generator has cooled, it can be safely handled and processed.

(a) To replace the fired (expended) generator, select the appropriate task:

Attendant /Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Removal, TASK 35-21-11-000-801

Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Installation, TASK 35-21-11-400-801

Main Cabin Center Oxygen PSU Oxygen Generator Removal, TASK 35-21-12-000-801

Main Cabin Center Oxygen PSU Oxygen Generator Installation, TASK 35-21-12-400-801

Main Cabin Outboard Oxygen PSU Oxygen Generator Removal, TASK 35-21-13-000-801

Main Cabin Outboard Oxygen PSU Oxygen Generator Installation,

TASK 35-21-13-400-801

SUBTASK 35-21-13-420-002

- (4) Do a visual check if the shape of the starter assembly and the outlet valve assembly are perpendicular to the lids.
- (5) To install the oxygen generator [2] into the Oxygen PSU, do the following steps:
 - (a) Put the generator [2] in the position for installation.
 - (b) Lower the strap cover down on top of the generator [2].
 - (c) Install the screw, and washer in the strap cover.
 - (d) Attach the oxygen hose to the generator [2].

SUBTASK 35-21-13-211-003

- (6) Before installing the release pin, visually inspect the pins general condition:
 - a) Replace the release pin/cable assembly if it demonstrates any of the following conditions:
 - Galling
 - 2) Bends
 - 3) Corrosion.

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- 4) Nicks
- 5) Scrapes

SUBTASK 35-21-13-420-003



DO NOT REMOVE THE SAFETY PIN IF THE RELEASE PIN IS NOT INSTALLED. IF THE SAFETY PIN IS REMOVED THE OXYGEN GENERATOR WILL FIRE, AND THE GENERATOR WOULD HAVE TO BE REPLACED.

(7) To install the release pin into the oxygen generator firing mechanism, do the steps that follow:



IN ADDITION TO THE SAFETY PIN, A SECONDARY SAFETY DEVICE IS USED FOR THE TRANSPORT OF SPARE OXYGEN GENERATOR. THIS SECONDARY SAFETY DEVICE MUST BE REMOVED FROM THE FIRING PINS RELEASE PIN HOLE BEFORE THE RELEASE PIN CAN BE INSTALLED. FAILURE TO DO SO COULD PREVENT THE OXYGEN GENERATOR FROM FIRING WHEN THE OXYGEN MASKS ARE ACTUATED.

- (a) Remove the secondary safety device, if installed, from the release pin hole in the firing pin. The release pin hole is the larger of the two holes on the firing pin of the oxygen generator.
- (b) Route the release pin and cable through the mask lanyard rings.



MAKE SURE THAT THE RELEASE PIN IS INSTALLED IN THE LARGER OF THE TWO HOLES, AND THAT THE SAFETY PIN IS INSTALLED IN THE SMALLER OF THE TWO HOLES LOCATED IN THE FIRING PIN. FAILURE TO INSTALL THE PINS COULD PREVENT THE OXYGEN GENERATOR FROM FIRING WHEN THE OXYGEN MASKS ARE ACTUATED.

(c) Route the release pin to, and install in, the larger of the two holes in the firing pin.

NOTE: The release pin should fit into the outer/larger hole without resistance. The release pin is held firmly against the firing pin spring case on removal of the safety pin.

SUBTASK 35-21-13-440-002

(8) When all maintenance tasks for the Main Cabin Outboard Oxygen PSU are complete, do the task:

Main Cabin Outboard Oxygen PSU Oxygen Generator Firing Mechanism Activation, TASK 35-21-13-440-801



TASK 35-21-13-200-801

7. Main Cabin Outboard Oxygen PSU Oxygen Generator Check

A. General

- (1) This procedure checks that the chemical oxygen generators are properly installed into the following Main Cabin Outboard Oxygen PSUs.
- (2) Do not conduct any maintenance operations on an Oxygen PSU without first deactivating each oxygen generators firing mechanism.

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- (3) Each oxygen passenger service unit (PSU) has at least one chemical oxygen generator. The generator, when ignited, supplies oxygen to each of the connected masks. Each generator has a temperature witness strip around the units body to show if the oxygen generator has previously expended or fired. The generator will start the oxygen flow when the mask is pulled downward, provided that the safety pin is removed from the firing mechanism.
- (4) All replacement chemical oxygen generators are supplied with a safety pin. The safety pin is installed in the firing mechanism of the oxygen generator. The generator cannot ignite (start oxygen flow) when the safety pin is correctly installed. The generator is safe to handle when the safety pin is installed.
- (5) In addition to the safety pin, a secondary safety device is used for the transport of spare oxygen generators This secondary safety device must be removed from the firing mechanisms release pin hole, before the release pin can be installed.
- (6) The safety pin has to be installed in the oxygen generator firing mechanism (oxygen generator deactivation) whenever the oxygen generator or the oxygen passenger service unit is to be removed from the airplane, or when any other oxygen passenger service unit (PSU) maintenance is to be performed.
- (7) Once either the oxygen generator or the oxygen passenger service unit (PSU) is installed, and other maintenance to the PSU is complete, the safety pin is to be removed from the generator firing mechanism (oxygen generator activation).
- (8) Each oxygen passenger service unit (PSU) has at least one chemical oxygen generator. The generator, when ignited, supplies oxygen to each of the connected masks. Each generator has a temperature witness strip around the units body to show if the oxygen generator has previously ignited (oxygen flow started) or not. The generator will start the oxygen flow when the mask is pulled downward, provided that the safety pin is removed from the firing mechanism.
- (9) All replacement chemical oxygen generators are supplied with a safety pin. The safety pin is installed in the firing mechanism of the oxygen generator. The generator cannot ignite (start oxygen flow) when the safety pin is correctly installed. The generator is safe to handle when the safety pin is installed.
- (10) In addition to the safety pin, a secondary safety device is used for the transport of spare oxygen generators This secondary safety device must be removed from the firing mechanisms release pin hole, before the release pin can be installed.
- (11) The safety pin has to be installed in the oxygen generator firing mechanism (oxygen generator deactivation) whenever the oxygen generator or the oxygen passenger service unit is to be removed from the airplane, or when any other oxygen passenger service unit (PSU) maintenance is to be performed.
- (12) Once either the oxygen generator or the oxygen passenger service unit (PSU) is installed, and other maintenance to the PSU is complete, the safety pin is to be removed from the generator firing mechanism (oxygen generator activation).

B. References

Reference	Title
25-23-01-010-801	Passenger Service Unit (PSU) Opening (P/B 201)
25-23-01-410-801	Passenger Service Unit (PSU) Closing (P/B 201)
35-21-11-000-801	Attendant /Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Removal (P/B 201)
35-21-11-040-801	Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Firing Mechanism Deactivation (P/B 201)

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Reference	Title
35-21-11-400-801	Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Installation (P/B 201)
35-21-12-000-801	Main Cabin Center Oxygen PSU Oxygen Generator Removal (P/B 201)
35-21-12-040-801	Main Cabin Center Oxygen PSU Oxygen Generator Firing Mechanism Deactivation (P/B 201)
35-21-12-400-801	Main Cabin Center Oxygen PSU Oxygen Generator Installation (P/B 201)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Preparation

NOTE: Reference the figure:

Main Cabin Outboard Oxygen PSU Location/Figure 201

SUBTASK 35-21-13-800-021

- (1) Get access to the appropriate PSU as follows:
 - (a) The Main Cabin Outboard Oxygen PSUs are located below the outboard stow bins, above each seat.

SUBTASK 35-21-13-865-001

(2) Open these circuit breakers and install safety tags:

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	3	C35403	L PAX OXY
Α	4	C35405	C PAX OXY
Α	5	C35404	R PAX OXY
Н	3	C35606	CHAN A OXY DEPLOY
Н	4	C35607	CHAN B OXY DEPLOY

SUBTASK 35-21-13-010-006

(3) To open the oxygen Passenger Service Unit (PSU) for maintenance or removal, do this task: Passenger Service Unit (PSU) Opening, TASK 25-23-01-010-801.

E. Procedure

NOTE: Reference the figures:

Main Cabin Outboard Oxygen PSU Generator Fired Inspection/Figure 202

Main Cabin Outboard Oxygen PSU Generator Firing Mechanism Inspection/Figure 204

Main Cabin Outboard Oxygen PSU Generator Removal / Installation/Figure 205

SUBTASK 35-21-13-210-002

- (1) Examine the oxygen generator [2] to determine if it has been previously fired.
 - (a) Any of the following conditions indicate that the oxygen generator has been fired (expended):
 - 1) The heat sensitive paint found on the generator exterior has turned black, and/or,
 - 2) The release pin is no longer engaged with the firing pin, and/or,

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3) The firing pin has retracted into the firing mechanism so that the release pin hole is no longer visible on the firing pin.



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 INJURY OR DEATH TO PERSONS AND DAMAGE TO EQUIPMENT.

(2) If the oxygen generator has been fired (expended), process the expended generator as appropriate, and replace the oxygen generator with new.

NOTE: Deactivation of a fired (expended) generator is neither possible, nor necessary. Once the expended generator has cooled, it can be safely handled and processed.

(a) To replace the fired (expended) generator, select the appropriate task:

Attendant /Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Removal, TASK 35-21-11-000-801

Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Installation, TASK 35-21-11-400-801

Main Cabin Center Oxygen PSU Oxygen Generator Removal, TASK 35-21-12-000-801

Main Cabin Center Oxygen PSU Oxygen Generator Installation, TASK 35-21-12-400-801

Main Cabin Outboard Oxygen PSU Oxygen Generator Removal, TASK 35-21-13-000-801

Main Cabin Outboard Oxygen PSU Oxygen Generator Installation, TASK 35-21-13-400-801

SUBTASK 35-21-13-212-001

- (3) To check the oxygen generator [2] installation, do the following steps:
 - (a) Make sure the generator [2] is installed firmly in position.
 - (b) Make sure the oxygen hose is connected in the generator [2].
 - (c) Make sure the release cable is correctly routed through the mask lanyards.
- (4) If any of the above conditions have not been met, the oxygen generator [2] must be deactivated before corrections can be made.
 - (a) To deactivate the oxygen generator [2], select the appropriate task:

Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Firing Mechanism Deactivation, TASK 35-21-11-040-801

Main Cabin Center Oxygen PSU Oxygen Generator Firing Mechanism Deactivation, TASK 35-21-12-040-801

Main Cabin Outboard Oxygen PSU Oxygen Generator Firing Mechanism Deactivation, TASK 35-21-13-040-801

(b) To correct a faulty oxygen generator installation, select the appropriate task:

Attendant/Crew Rest/ Lavatory Oxygen PSU Oxygen Generator Installation, TASK 35-21-11-400-801

Main Cabin Center Oxygen PSU Oxygen Generator Installation, TASK 35-21-12-400-801

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Main Cabin Outboard Oxygen PSU Oxygen Generator Installation, TASK 35-21-13-400-801

SUBTASK 35-21-13-211-004

- (5) To inspect the oxygen generator firing mechanism for proper activation, make sure that the following conditions have been met:
 - (a) The release cable is routed through each mask lanyard ring.



IN ADDITION TO THE SAFETY PIN, A SECONDARY SAFETY DEVICE IS USED FOR THE TRANSPORT OF SPARE OXYGEN GENERATOR. THIS SECONDARY SAFETY DEVICE MUST BE REMOVED FROM THE FIRING PINS RELEASE PIN HOLE BEFORE THE RELEASE PIN CAN BE INSTALLED. FAILURE TO DO SO COULD PREVENT THE OXYGEN GENERATOR FROM FIRING WHEN THE OXYGEN MASKS ARE ACTUATED.

- (b) The secondary safety device has been removed from the larger of the two holes in the firing pin.
- (c) The release pin is inserted in the larger of the two holes in the firing pin.
- (d) The release pin is positioned against the generator firing mechanism spring housing.
- (e) The safety pin and warning flag is not present in the firing pin
- (6) If any of the above conditions have not been met, the oxygen generator must be deactivated before corrections can be made.

SUBTASK 35-21-13-410-002

- (7) Close the PSU after maintenance is complete:
 - (a) Do this task: Passenger Service Unit (PSU) Closing, TASK 25-23-01-410-801.

SUBTASK 35-21-13-865-002

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

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	3	C35403	L PAX OXY
Α	4	C35405	C PAX OXY
Α	5	C35404	R PAX OXY
Н	3	C35606	CHAN A OXY DEPLOY
Н	4	C35607	CHAN B OXY DEPLOY

SUBTASK 35-21-13-741-002

(9) The oxygen PSU can now be returned to service.



TASK 35-21-13-000-802

8. Main Cabin Outboard Oxygen PSU Oxygen Mask Removal

A. General

(1) This procedure removes the oxygen masks from the Main Cabin Outboard oxygen passenger service units (PSUs).

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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. Preparation

SUBTASK 35-21-13-010-007

- (1) To open an oxygen PSU oxygen mask box for maintenance, do the steps that follow:
 - (a) Insert the 0.090 in to 0.125 in diameter 6 in length rod, STD-4241 through the access hole in the PSU oxygen mask box door to disengage the door latch/actuator.
 - (b) Open the PSU oxygen mask box door.

NOTE: The masks will fall from the mask box.

E. Procedure

NOTE: Reference the figure:

Main Cabin Outboard Oxygen PSU Mask Removal / Installation/Figure 206

SUBTASK 35-21-13-020-002



DO THE DEACTIVATION PROCEDURE FOR THE OXYGEN GENERATOR. ACCIDENTAL OPERATION OF THE OXYGEN GENERATOR CAN CAUSE INJURIES TO PERSONS AND DAMAGE TO EQUIPMENT.

- (1) To remove an oxygen mask [2] from a PSU, do the steps that follow:
 - (a) Remove the release pin from the firing pin on the oxygen generator firing mechanism.
 - (b) Gently pull the firing cable out of the mask lanyard loops.
 - (c) Gently pull the mask hose off of the mask hose manifold to remove the oxygen mask [2].



TASK 35-21-13-400-802

9. Main Cabin Outboard Oxygen PSU Oxygen Mask Installation

A. General

(1) This procedure installs the oxygen masks into the Main Cabin Outboard oxygen passenger service units (PSUs).

B. References

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

C. 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

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D. Location Zones

Zone	Area
200	Upper Half of Fuselage

E. Preparation

NOTE: Reference the figure:

Main Cabin Outboard Oxygen PSU Location/Figure 201

SUBTASK 35-21-13-800-024

- (1) Get access to the appropriate PSU as follows:
 - (a) The Main Cabin Center Oxygen PSUs are located below the center stow bins, above each seat.

SUBTASK 35-21-13-010-008

- (2) To open an oxygen PSU oxygen mask box for maintenance, do the steps that follow:
 - (a) Insert the 0.090 in to 0.125 in diameter 6 in length rod, STD-4241 through the access hole in the PSU oxygen mask box door to disengage the door latch/actuator.
 - (b) Open the PSU oxygen mask box door.

NOTE: The masks will fall from the mask box.

F. Procedure

NOTE: Reference the figure:

Main Cabin Outboard Oxygen PSU Mask Removal / Installation/Figure 206

SUBTASK 35-21-13-420-009

- (1) To install a mask in the PSU, do the steps that follow:
 - (a) Read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance (TASK 35-00-00-910-801).
 - (b) Make sure the oxygen generator firing mechanism is deactivated (safety pin installed prior to conducting any maintenance on the Oxygen PSU.
 - To deactivate the oxygen generator, do this task: Main Cabin Outboard Oxygen PSU Oxygen Generator Firing Mechanism Deactivation, TASK 35-21-13-040-801.
 - (c) Attach the mask hose to the oxygen generator manifold.
 - 1) Option: To aid the installation of the mask hose end, do the following:
 - a) Soak the tube end for 5 minutes in clean distilled water that has been heated to 120 to 140 degrees F.
 - b) Wipe the outside dry and install while the end is still warm and moist internally.
 - (d) Route the firing cable between the oxygen hoses and the oxygen box wall.
 - (e) Put the firing cable through the lanyard rings.
 - 1) Make sure the lanyard rings have the same relative position in the box as the masks that they are attached to (Do not permit two lanyards to cross).

SUBTASK 35-21-13-530-001

(2) To pack the mask after installation into the PSU, do this task:

Main Cabin Outboard Oxygen PSU Oxygen Mask Packing, TASK 35-21-13-530-801

——— END OF TASK ———

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TASK 35-21-13-200-802

10. Main Cabin Outboard Oxygen PSU Oxygen Mask Inspection

NOTE: This procedure is a scheduled maintenance task.

A. General

(1) This procedure inspects the oxygen masks for the Main Cabin Outboard Oxygen Passenger Service Units (PSUs).

B. References

Reference	Title
35-21-01-040-802	Oxygen Generator Firing Mechanism Deactivation (P/B 201)
35-21-01-440-802	Oxygen Generator Firing Mechanism Activation (P/B 201)
35-21-11-990-816	Figure: Oxygen Mask Hose Inspection (P/B 201)

C. 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

D. Location Zones

Zone	Area	
200	Upper Half of Fuselage	

E. Preparation

NOTE: Reference the figure:

Main Cabin Outboard Oxygen PSU Location/Figure 201

SUBTASK 35-21-13-040-005



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.

(1) Do the task: (Oxygen Generator Firing Mechanism Deactivation, TASK 35-21-01-040-802).

SUBTASK 35-21-13-800-026

- (2) Get access to the appropriate PSU as follows:
 - (a) The Main Cabin Outboard Oxygen PSUs are located below the outboard stow bins, above each seat.

SUBTASK 35-21-13-010-009

- (3) To open an oxygen PSU oxygen mask box for maintenance, do the steps that follow:
 - (a) Insert the 0.090 in to 0.125 in diameter 6 in length rod, STD-4241 through the access hole in the PSU oxygen mask box door to disengage the door latch/actuator.
 - (b) Open the PSU oxygen mask box door.

NOTE: The masks will fall from the mask box.

F. Procedure

SUBTASK 35-21-13-210-003

(1) To do an inspection of an oxygen mask [2], do these steps:

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- (a) Make sure that the oxygen mask [2] is clean and is in a satisfactory condition.
 - NOTE: The usual coiling and packing of mask assemblies can put the mask assembly materials temporarily out of their correct shape.
 - 1) Do a visual inspection of the oxygen mask [2] assembly:
 - a) Make sure that the oxygen masks are not damaged as follows:
 - <1> Torn parts.
 - <2> Broken parts.
 - <3> Frayed parts.
 - <4> Missing parts.
 - <5> Holes in parts.
 - b) Make sure that the oxygen mask assembly does not have these conditions:
 - <1> Stiffness.
 - <2> Permanent deformation or kinks.
 - c) Make sure that all of the flapper valves are aligned and not damaged.
 - d) Make sure that the bag and tube do not have changed color.
 - e) Make sure that the head strap is attached to the face piece.
 - f) Make sure that the head strap will get longer when you pull it, and goes back when you let it go.
 - g) Make sure that the face piece does not have an odor.
 - h) Look through the bag and tube. Make sure that there are no liquid drops or solid dirt on the internal or external surface of the bag and tube.
 - Extend the tubing straight from the bag and make sure that the in-line flow indicator points to the bag.
 - j) Look at the oxygen mask hose. Make sure that the hose does not have pinches or kinks.
 - k) If the hose is pinched or kinked and permanent deformation has occurred, do theses steps:
 - <1> Make sure that the deformation at the smallest cross section of the hose is no less than 0.150 in. (0.381 cm) (Figure 35-21-11-990-816).
 - <2> If the cross section is smaller than 0.150 in. (0.381 cm), replace the hose.
- (2) Make sure that a lanyard is attached to the mask or to the oxygen hose.
 - (a) If the lanyard assembly is damaged or missing, replace the lanyard assembly.

SUBTASK 35-21-13-100-001

(3) To clean the mask after inspection, do this task:

Main Cabin Outboard Oxygen PSU Oxygen Mask Cleaning, TASK 35-21-13-100-801.

SUBTASK 35-21-13-410-007

(4) To pack the mask after inspection, do this task:

Main Cabin Outboard Oxygen PSU Oxygen Mask Packing, TASK 35-21-13-530-801.

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SUBTASK 35-21-13-440-005

(5) Do the task: (Oxygen Generator Firing Mechanism Activation, TASK 35-21-01-440-802).

----- END OF TASK -----

TASK 35-21-13-100-801

11. Main Cabin Outboard Oxygen PSU Oxygen Mask Cleaning

A. General

(1) This procedure cleans the oxygen masks for the main cabin outboard oxygen passenger service units (PSUs).

B. References

Reference	Title
35-21-01-040-802	Oxygen Generator Firing Mechanism Deactivation (P/B 201)
35-21-01-440-802	Oxygen Generator Firing Mechanism Activation (P/B 201)

C. 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

D. Consumable Materials

Reference	Description	Specification
B00541	Cleaner - General Purpose Household Detergent	
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

E. Location Zones

Zone	Area
200	Upper Half of Fuselage

F. Preparation

NOTE: Reference the figure:

Main Cabin Outboard Oxygen PSU Location/Figure 201

SUBTASK 35-21-13-040-004



MAKE SURE THAT THE SAFETY PIN WITH A WARNING FLAG IS INSTALLED ON THE GENERATOR. THE GENERATOR IS A PYROTECHNIC-ACTIVATED DEVICE. IF THE GENERATOR FIRES, IT WILL BECOME VERY HOT (450 DEGREE F OR MORE). IF YOU TOUCH A HOT GENERATOR, YOU WILL GET AN INJURY.

(1) Do the task: (Oxygen Generator Firing Mechanism Deactivation, TASK 35-21-01-040-802).

SUBTASK 35-21-13-800-028

- (2) Get access to the appropriate PSU as follows:
 - (a) The Main Cabin Outboard Oxygen PSUs are located below the outboard stow bins, above each seat.

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SUBTASK 35-21-13-010-010

- (3) To open an oxygen PSU oxygen mask box for maintenance, do the steps that follow:
 - (a) Insert the 0.090 in to 0.125 in diameter 6 in length rod, STD-4241 through the access hole in the PSU oxygen mask box door to disengage the door latch/actuator.
 - (b) Open the PSU oxygen mask box door.

NOTE: The masks will fall from the mask box.

G. Procedure

SUBTASK 35-21-13-100-002

- (1) To clean an oxygen mask [2] assembly, do these steps:
 - (a) Mix a solution of general purpose household detergent cleaner, B00541 with warm water, in accordance with the manufacture's instructions.
 - (b) Apply the solution to the facepiece with a cotton wiper, G00034 or a seal, G02186.
 - (c) Rinse the general purpose household detergent cleaner, B00541 from the oxygen mask with warm water.
 - (d) Make sure the oxygen mask is completely dry.

SUBTASK 35-21-13-530-002

(2) To install the clean oxygen mask into the PSU, do the following task: Main Cabin Outboard Oxygen PSU Oxygen Mask Installation, TASK 35-21-13-400-802.

SUBTASK 35-21-13-440-004

(3) Do the task: (Oxygen Generator Firing Mechanism Activation, TASK 35-21-01-440-802).



TASK 35-21-13-530-801

12. Main Cabin Outboard Oxygen PSU Oxygen Mask Packing

NOTE: This procedure is a scheduled maintenance task.

A. General

(1) This procedure packs the oxygen masks into the main deck outboard oxygen passenger service units (PSUs).

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Preparation

NOTE: Reference the figures:

Main Cabin Outboard Oxygen PSU Location/Figure 201

SUBTASK 35-21-13-800-030

- (1) Get access to the appropriate PSU as follows:
 - (a) The Main Cabin Outboard Oxygen PSUs are located below the outboard stow bins, above each seat.

D. Procedure

NOTE: Reference the figures:

Main Cabin Outboard Oxygen PSU Mask Packing/Figure 207

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SUBTASK 35-21-13-530-003

(1) To pack the oxygen mask [2] into a Main Cabin Outboard Oxygen PSU, do the steps that follow:

NOTE: When packing masks on the airplane, the oxygen box will remain in the installed position with the mask door open. This procedure will require one (1) person to position, fold and place the masks in the box.

- (a) Put the headband lengthwise on the open bag and then fold the bag into thirds along the headband.
- (b) PSU boxes with internal manifold;;

Let the reservoir bags and masks to hang down by the hoses, and put the masks in a row in the sequence of the hose to manifold connections.

PSU boxes with external manifold:

Let the reservoir bags and masks to hang down by the hoses, and put the masks in a row in a sequence that will not let the hoses tangle.

- (c) Arrange and stack the mask cups as follows:
 - 1) Select the mask located closest to the mask box door hinge.
 - 2) With the oxygen hose stretched, move the mask up approximately 2 inches to create slack in the lanyard.
 - 3) Put the first mask cup inside the subsequent mask cup with the first mask hose caught in between the two mask cups.
 - NOTE: No coil retainers are required to secure hoses.
 - 4) Repeat these steps for the remaining masks.

NOTE: The final mask cup in the stack will trap two sets of hoses, its own hose and the hose of the preceding mask.



DO NOT COMPRESS THE MASK GROUP TOO MUCH WHEN YOU ASSEMBLE OR INSTALL IT IN THE BOX. ONLY COMPRESS THEM SUFFICIENTLY TO PUT THE MASKS IN THE BOX. IF YOU COMPRESS THE HOSES TOO MUCH, YOU CAN CAUSE DAMAGE TO THEM.

- (d) Put the mask cup stack in its position in the oxygen PSU mask box:
 - 1) While holding the mask cup stack in one hand, apply a slight downward force upon the stack of mask cups to separate and untangle the hoses and lanyards.
 - 2) PSU boxes with internal manifold;

With the other hand, grasp the lanyards and hoses at a point midway between the manifold and the mask and move them to the side away from the manifold.

PSU boxes with external manifold;

With the other hand, grasp the lanyards and hoses at a point midway between the clamp for the hoses and the mask and move them to the side away from the clamp for the hoses.

3) PSU boxes with internal manifold;

Position the mask cup stack into the side of the mask box opposite the manifold, with the open end of the mask cups pointed towards the door hinge side of mask box

PSU boxes with external manifold;

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Position the mask cup stack into the side of the mask box opposite the clamp for the hoses, with the open end of the mask cups pointed towards the door hinge side of mask box

NOTE: Make sure that the hoses and lanyards are not tangled with one another and that the mask facepiece, against the hinge side wall, is not trapped behind the supply line hose. The reservoir bags and remaining portion of hoses should still be hanging below the masks.

- 4) Continue to hold the masks in position.
- (e) Put the reservoir bags and hose into the oxygen PSU mask box:
 - 1) With your free hand, organize the folded reservoir bags in the sequence of the mask cups, and bundle them one against the other.
 - 2) Start at the end adjacent to the mask door latch, and put the reservoir bag bundle along the bottom length of the mask cup stack.
 - 3) PSU boxes with internal manifold;

At the door hinge end of the mask stack, fold the reservoir bags to the manifold so they occupy the space in the mask box between the hinge side wall, and the latch actuator housing.

PSU boxes with external manifold;

At the door hinge end of the mask stack, fold the reservoir bags to the clamp for the hoses so they occupy the space in the mask box between the hinge side wall, and the latch actuator housing.

- 4) Continue to hold the masks and the reservoir bags with the back of the same hand.
- 5) With your free hand and the fingers of the other hand, bundle the hanging hose and from the bottom of the bundle, fold the bundle on itself.
- 6) Carefully put the hose bundle into the remaining space in the mask box between the hinge side wall, and the latch actuator housing.
- (f) Hold the masks, reservoir bags, and hose bundle in their position with the outstretched fingers of one hand.
- (g) PSU boxes with internal manifold;

Make sure that the masks, hose bundle, and lanyards are not tangled with each other or with the oxygen manifold.

PSU boxes with external manifold;

Make sure that the masks, hose bundle, and lanyards are not tangled with each other or with the clamp for the hoses.

NOTE: No portion of the mask cup, reservoir, or hose may be between the actuator and the roof of the oxygen box before closing door. With your free hand, make adjustments as necessary.

SUBTASK 35-21-13-410-003

- (2) To close the oxygen PSU mask box door, do the steps that follow:
 - (a) Support the masks put in the mask box with the outstretched fingers of one hand while the door is raised toward the closed position with the other.
 - (b) Reset door latch/actuator by pivoting the lever arm until it engages with the magnet.
 - (c) As the door approaches the closed position, remove the hand supporting the packed mask assemblies (the masks will fall against the mask box door).

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- When optional temporary rubber bands are used, do these steps:
 - With the door slightly open, use a tool to cut the optional rubber bands retaining the packed mask assemblies, and remove the rubber band.
- Test the door to confirm the correct packing of the masks:
 - 1) From an almost closed position, swing door approximately 2 inches down and up several times.
 - Observe that the masks and hose bundle move with the door to assure that the masks will free fall.
 - Use a flashlight and mirror to make sure that the mask hoses do not become pinched between the door rib and the lower flange of the oxygen mask box shell.



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.

Close the door until the door latch engages.

NOTE: A misfaired door can show that some items are pinched between the door and the oxygen box or between the door and the actuator mounting bracket.

- Visually examine the misfairing of the door to the box. 1)
- 2) Make sure that a pinching condition does not exist.

SUBTASK 35-21-13-440-003

To activate the oxygen generator and close the PSU, do the following task:

Main Cabin Outboard Oxygen PSU Oxygen Generator Firing Mechanism Activation, TASK 35-21-13-440-801

- END OF TASK —

TASK 35-21-13-000-803

- 13. Main Cabin Outboard Oxygen PSU Removal
 - General
 - (1) This procedure removes the Main Deck Outboard Oxygen PSUs.
 - References

Reference	Title	
25-23-01-010-801	Passenger Service Unit (PSU) Opening (P/B 201)	
25-23-01-010-802	Passenger Service Unit (PSU) - Removal (P/B 401)	
Location Zones		

C.

Location Zones			
Zone	Area		
200	Upper Half of Fuselage		

D. Preparation

NOTE: Reference the figure:

Main Cabin Outboard Oxygen PSU Location/Figure 201

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SUBTASK 35-21-13-800-032

- (1) Get access to the appropriate PSU as follows:
 - (a) The Main Cabin Outboard Oxygen PSUs are located below the outboard stow bins, above each seat.

SUBTASK 35-21-13-865-003

(2) Open these circuit breakers and install safety tags:

Standby Power Management Panel, P310

	-	_	
Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	3	C35403	L PAX OXY
Α	4	C35405	C PAX OXY
Α	5	C35404	R PAX OXY
Н	3	C35606	CHAN A OXY DEPLOY
Н	4	C35607	CHAN B OXY DEPLOY

E. Procedure

SUBTASK 35-21-13-010-011

(1) To open the oxygen Passenger Service Unit (PSU) for maintenance or removal, do this task: Passenger Service Unit (PSU) Opening, TASK 25-23-01-010-801.

SUBTASK 35-21-13-020-003

(2) To remove the oxygen PSU, do this task: Passenger Service Unit (PSU) - Removal, TASK 25-23-01-010-802.



TASK 35-21-13-400-803

14. Main Cabin Outboard Oxygen PSU Installation

A. General

(1) This procedure installs the Main Cabin Outboard Oxygen PSUs.

B. References

Reference	Title
25-23-01-400-801	Passenger Service Unit (PSU) - Installation (P/B 401)
25-23-01-410-801	Passenger Service Unit (PSU) Closing (P/B 201)
35-21-00-710-801	Oxygen Box Door Latch/Actuator Operational Test (P/B 501)
Location Zones	

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Preparation

NOTE: Reference the figure:

Main Cabin Outboard Oxygen PSU Location/Figure 201

SUBTASK 35-21-13-800-034

- (1) Get access to the appropriate PSU as follows:
 - (a) The Main Cabin Outboard Oxygen PSUs are located below the outboard stow bins, above each seat.

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SUBTASK 35-21-13-865-004

(2) Open these circuit breakers and install safety tags:

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	3	C35403	L PAX OXY
Α	4	C35405	C PAX OXY
Α	5	C35404	R PAX OXY
Н	3	C35606	CHAN A OXY DEPLOY
Н	4	C35607	CHAN B OXY DEPLOY

E. Procedure

SUBTASK 35-21-13-420-006

- (1) Install the oxygen Passenger Service Unit (PSU) after removing for maintenance.
 - (a) Do this task: Passenger Service Unit (PSU) Installation, TASK 25-23-01-400-801.

SUBTASK 35-21-13-211-005

(2) Make sure that the release pin in installed correctly, do this task: (Main Cabin Outboard Oxygen PSU Oxygen Generator Firing Mechanism Detailed Visual Inspection, TASK 35-21-13-211-801).

SUBTASK 35-21-13-410-004

- (3) Close the PSU after maintenance is complete:
 - (a) Do this task: Passenger Service Unit (PSU) Closing, TASK 25-23-01-410-801.

SUBTASK 35-21-13-865-005

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

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	3	C35403	L PAX OXY
Α	4	C35405	C PAX OXY
Α	5	C35404	R PAX OXY
Н	3	C35606	CHAN A OXY DEPLOY
Н	4	C35607	CHAN B OXY DEPLOY

SUBTASK 35-21-13-710-001

(5) To test the integrity of the Passenger Oxygen System, do this task: Oxygen Box Door Latch/Actuator Operational Test, TASK 35-21-00-710-801.



TASK 35-21-13-000-804

15. Main Cabin Outboard Oxygen PSU Mask Box Door Latch Actuator Removal

A. General

(1) This procedure removes the Main Deck Outboard Oxygen Passenger Service Unit (PSU) mask box door latch actuator.

B. References

Reference	Title
25-23-01-010-801	Passenger Service Unit (PSU) Opening (P/B 201)

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(Continued)

Reference	Title
35-21-11-990-814	Figure: Attendant / Lavatory Oxygen PSU Mask Door Latch
	Removal / Installation (P/B 201)

C. 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

D. Location Zones

Zone	Area
200	Upper Half of Fuselage

E. Preparation

NOTE: Reference the figure:

Main Cabin Outboard Oxygen PSU Location/Figure 201

SUBTASK 35-21-13-800-039

- (1) Get access to the appropriate PSU as follows:
 - (a) The Main Cabin Outboard Oxygen PSUs are located below the outboard stow bins, above each seat.

SUBTASK 35-21-13-865-006

(2) Open these circuit breakers and install safety tags:

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	3	C35403	L PAX OXY
Α	4	C35405	C PAX OXY
Α	5	C35404	R PAX OXY
Н	3	C35606	CHAN A OXY DEPLOY
Н	4	C35607	CHAN B OXY DEPLOY

SUBTASK 35-21-13-010-012

- (3) To open an oxygen PSU oxygen mask box for maintenance, do the steps that follow:
 - (a) Insert the 0.090 in to 0.125 in diameter 6 in length rod, STD-4241 through the access hole in the PSU oxygen mask box door to disengage the door latch/actuator.
 - (b) Open the PSU oxygen mask box door.

NOTE: The masks will fall from the mask box.

SUBTASK 35-21-13-010-013

(4) To open the oxygen Passenger Service Unit (PSU) for maintenance or removal, do this task: Passenger Service Unit (PSU) Opening, TASK 25-23-01-010-801.

F. Procedure

NOTE: Reference the figure:

Attendant / Lavatory Oxygen PSU Mask Door Latch Removal / Installation/Figure 35-21-11-990-814

SUBTASK 35-21-13-020-004

(1) To remove the oxygen mask door latch actuator [4] from an oxygen PSU, do the steps that follow:

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- (a) Disconnect the electrical receptacle [3].
- (b) Loosen the screws [2].
- (c) Disconnect the wiring from the electrical receptacle [3].
- (d) Be careful to not damage the oxygen mask while you work in the oxygen box.
- (e) Remove the screws [5] from the door latch actuator [4].
- (f) Remove the door latch actuator [4].

NOTE: The electrical wiring can be removed through the access hole when you remove the door latch actuator.

----- END OF TASK -----

TASK 35-21-13-400-804

16. Main Cabin Outboard Oxygen PSU Mask Box Door Latch Actuator Installation

A. General

 This procedure installs the Main Deck Outboard Oxygen Passenger Service Unit (PSU) mask box door latch actuator.

B. References

Reference	Title
25-23-01-010-801	Passenger Service Unit (PSU) Opening (P/B 201)
25-23-01-410-801	Passenger Service Unit (PSU) Closing (P/B 201)
35-21-00-710-801	Oxygen Box Door Latch/Actuator Operational Test (P/B 501)
35-21-11-990-814	Figure: Attendant / Lavatory Oxygen PSU Mask Door Latch Removal / Installation (P/B 201)
35-21-12-400-803	Main Cabin Center Oxygen PSU Oxygen Mask Packing (P/B 201)

C. 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

D. Location Zones

Zone	Area	
200	Upper Half of Fuselage	

E. Preparation

NOTE: Reference the figure:

Main Cabin Outboard Oxygen PSU Location/Figure 201

SUBTASK 35-21-13-800-038

- (1) Get access to the appropriate PSU as follows:
 - (a) The Main Cabin Outboard Oxygen PSUs are located below the outboard stow bins, above each seat.

SUBTASK 35-21-13-010-014

- (2) To open an oxygen PSU oxygen mask box for maintenance, do the steps that follow:
 - (a) Insert the 0.090 in to 0.125 in diameter 6 in length rod, STD-4241 through the access hole in the PSU oxygen mask box door to disengage the door latch/actuator.

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(b) Open the PSU oxygen mask box door.

NOTE: The masks will fall from the mask box.

SUBTASK 35-21-13-010-015

(3) To open the oxygen Passenger Service Unit (PSU) for maintenance or removal, do this task: Passenger Service Unit (PSU) Opening, TASK 25-23-01-010-801.

F. Procedure

NOTE: Reference the figure:

Attendant / Lavatory Oxygen PSU Mask Door Latch Removal / Installation/Figure 35-21-11-990-814

SUBTASK 35-21-13-420-008

- (1) To install the oxygen mask door latch actuator [4] into an oxygen PSU, do the steps that follow:
 - (a) Put the electrical wiring through the access hole in the oxygen box.
 - (b) Connect the electrical wiring to the electrical receptacle [3].
 - (c) Be careful to not damage the hanging oxygen mask while you work in the oxygen box.
 - (d) Install the screws [2] to attach the door latch actuator [4].
 - (e) Tighten the screws [2], into the oxygen box.
 - (f) Close the oxygen box door.
 - (g) Visually examine the misfairing of the door to the box

NOTE: A misfaired door can show that some items are pinched between the door and the oxygen box or between the door and the actuator mounting bracket.

- (h) Make sure that a pinching condition does not exist.
- (i) Connect the electrical receptacle [3].

SUBTASK 35-21-13-420-010

(2) When the installation is complete, do this task:

Main Cabin Center Oxygen PSU Oxygen Mask Packing, TASK 35-21-12-400-803

SUBTASK 35-21-13-410-006

- (3) Close the PSU after maintenance is complete:
 - (a) Do this task: Passenger Service Unit (PSU) Closing, TASK 25-23-01-410-801.

SUBTASK 35-21-13-865-007

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

Standby Power Management Panel, P310

Row	<u>Col</u>	<u>Number</u>	<u>Name</u>
Α	3	C35403	L PAX OXY
Α	4	C35405	C PAX OXY
Α	5	C35404	R PAX OXY
Н	3	C35606	CHAN A OXY DEPLOY
Н	4	C35607	CHAN B OXY DEPLOY

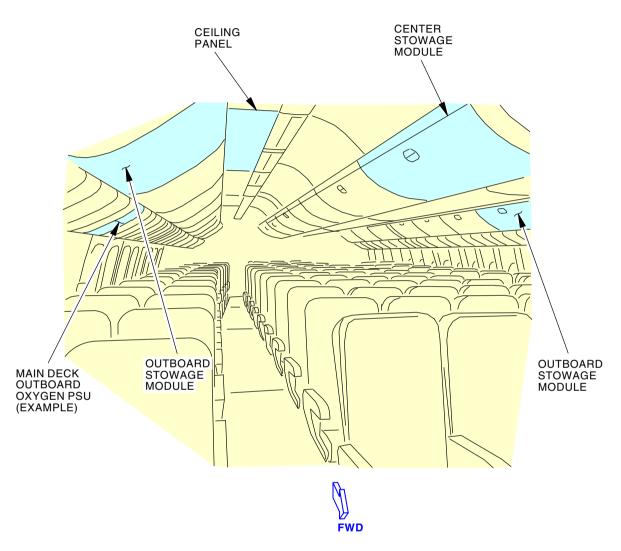
SUBTASK 35-21-13-710-002

(5) To test the integrity of the Passenger Oxygen Door Latch, do this task:Oxygen Box Door Latch/Actuator Operational Test, TASK 35-21-00-710-801.

FN	חו	OF :	TASK	

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PASSENGER COMPARTMENT (EXAMPLE)

W44624 S0000117721_V2

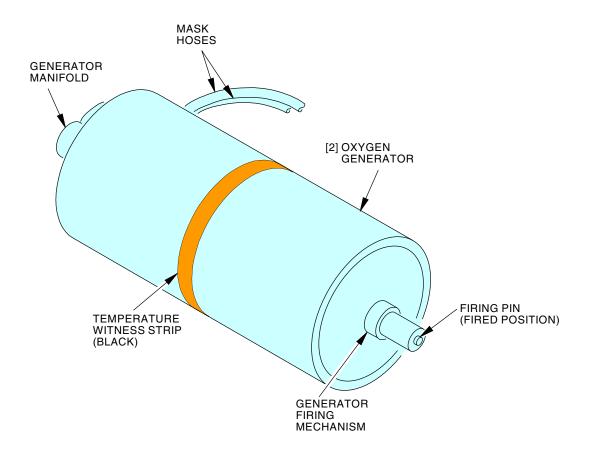
Main Cabin Outboard Oxygen PSU Location Figure 201/35-21-13-990-810

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35-21-13

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OXYGEN GENERATOR FIRED (EXPENDED) (EXAMPLE)

W44682 S0000118444_V3

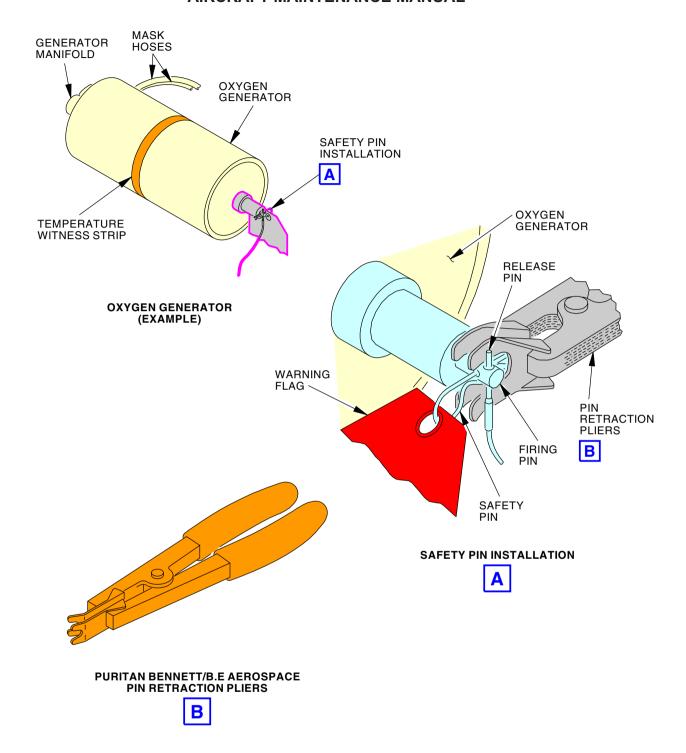
Main Cabin Outboard Oxygen PSU Generator Fired Inspection Figure 202/35-21-13-990-819

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D633W101-ARO

35-21-13

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W44715 S0000118441_V2

Main Cabin Outboard Oxygen PSU Generator Firing Mechanism Activation / Deactivation Figure 203/35-21-13-990-811 (Sheet 1 of 2)

EFFECTIVITY

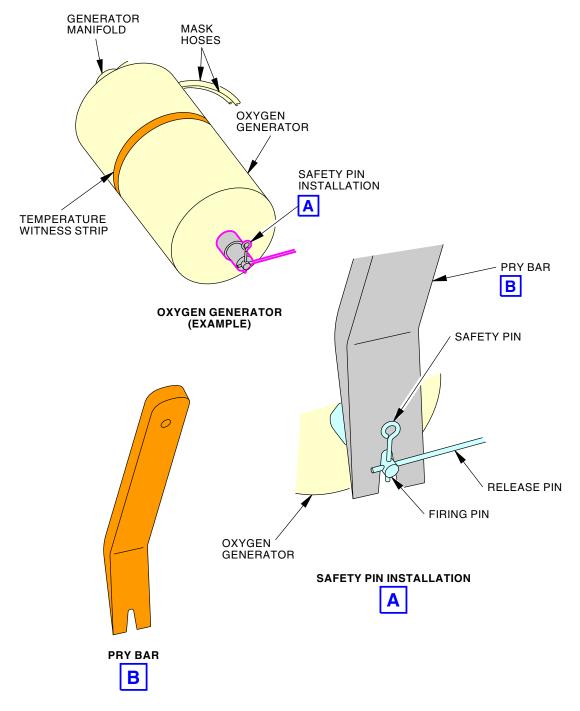
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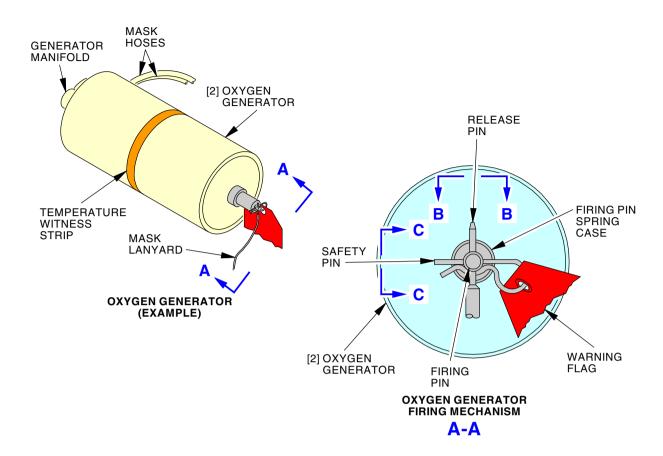
2571575 S0000617297_V1

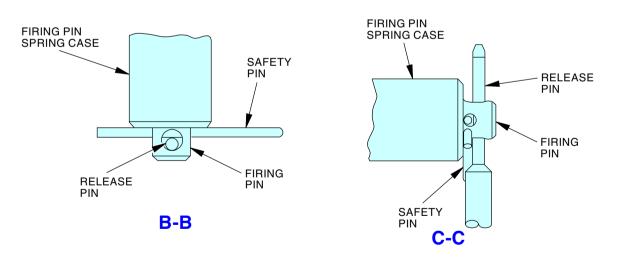
Main Cabin Outboard Oxygen PSU Generator Firing Mechanism Activation / Deactivation Figure 203/35-21-13-990-811 (Sheet 2 of 2)

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W44691 S0000122056_V3

Main Cabin Outboard Oxygen PSU Generator Firing Mechanism Inspection Figure 204/35-21-13-990-820

EFFECTIVITY

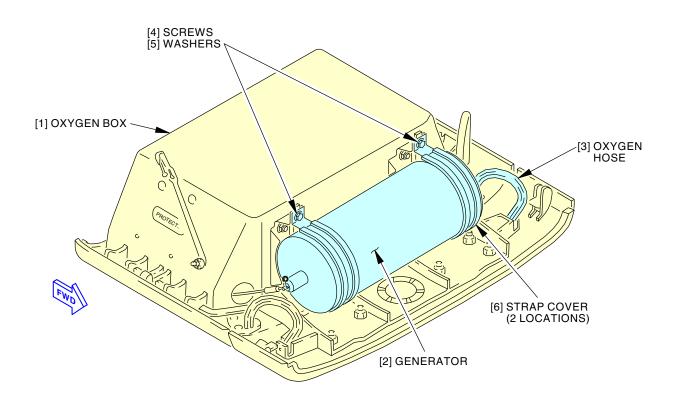
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MAIN CABIN OUTBOARD PSU

U90335 S0000222584_V2

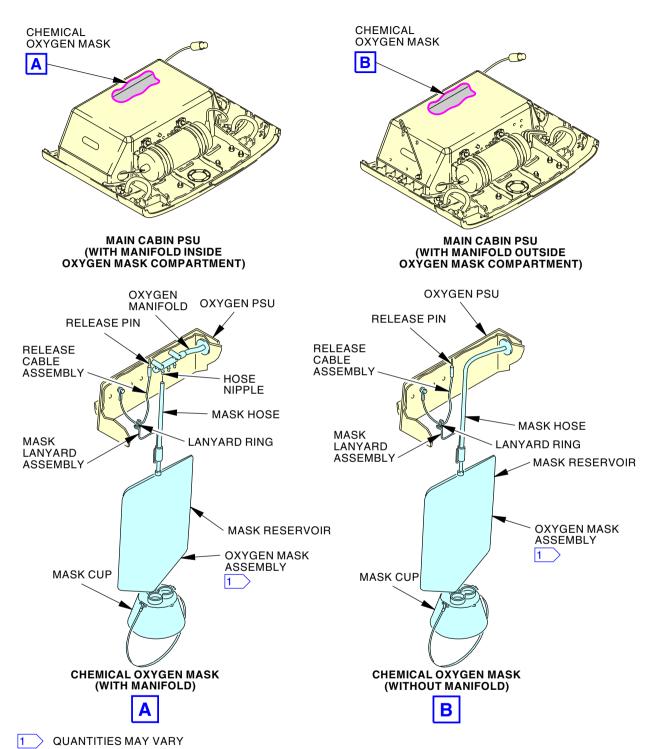
Main Cabin Outboard Oxygen PSU Generator Removal / Installation Figure 205/35-21-13-990-814

ARO ALL

35-21-13

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U83030 S0000216250_V3

Main Cabin Outboard Oxygen PSU Mask Removal / Installation Figure 206/35-21-13-990-817

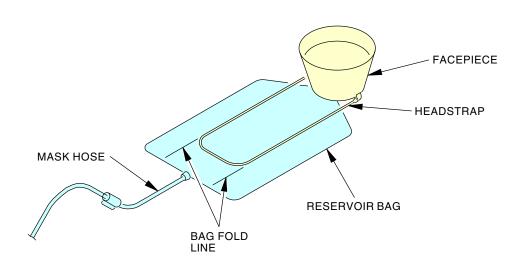
EFFECTIVITY

ARO ALL

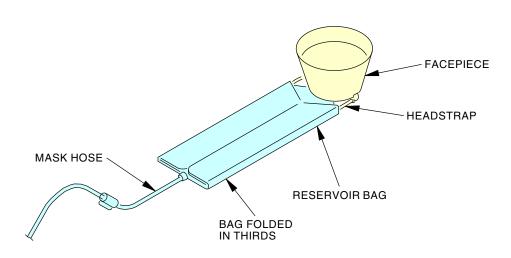
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STEP 1



STEP 2

W45658 S0000117718_V2

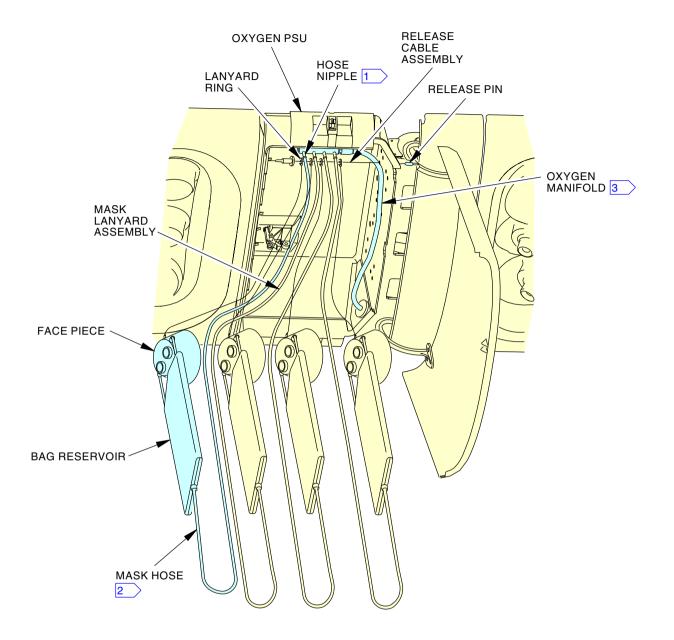
Main Cabin Outboard Oxygen PSU Mask Packing Figure 207/35-21-13-990-818 (Sheet 1 of 9)

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1 QUANTITIES MAY VARY

2 HOSES ARE TO BE PLACED BETWEEN EACH TWO ADJACENT CUPS

PSU SHOWN IS THE MANIFOLD IN BOX TYPE. MANIFOLD ON GENERATOR TYPE IS NOT SHOWN.

483381 S0000144132_V3

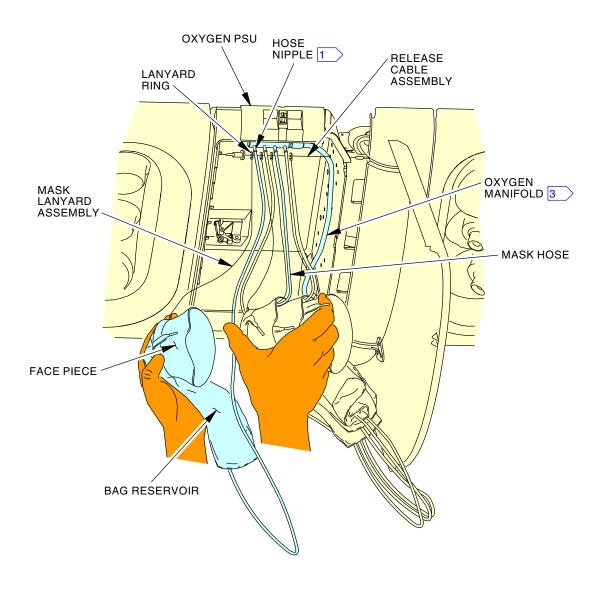
Main Cabin Outboard Oxygen PSU Mask Packing Figure 207/35-21-13-990-818 (Sheet 2 of 9)

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1 QUANTITIES MAY VARY

PSU SHOWN IS THE MANIFOLD IN BOX TYPE. MANIFOLD ON GENERATOR TYPE IS NOT SHOWN.

485100 S0000144764_V3

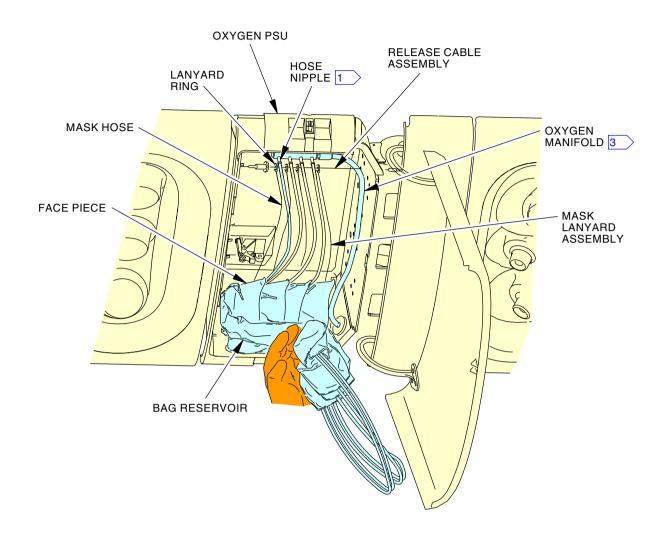
Main Cabin Outboard Oxygen PSU Mask Packing Figure 207/35-21-13-990-818 (Sheet 3 of 9)

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PSU SHOWN IS THE MANIFOLD IN BOX TYPE.
MANIFOLD ON GENERATOR TYPE IS NOT SHOWN.

483391 S0000144131_V3

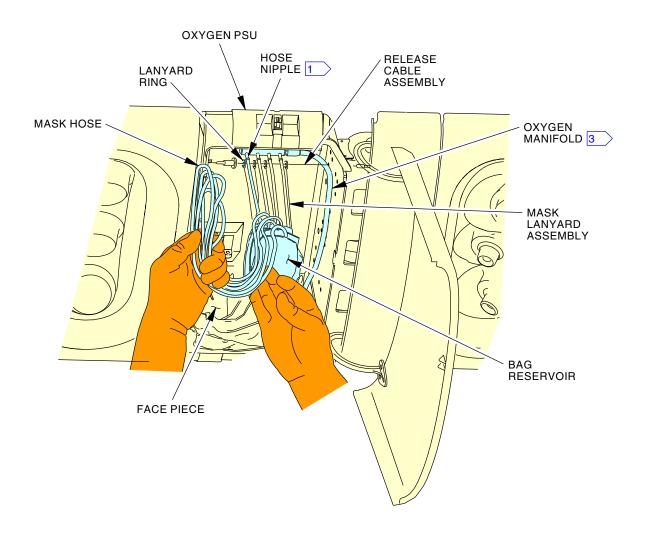
Main Cabin Outboard Oxygen PSU Mask Packing Figure 207/35-21-13-990-818 (Sheet 4 of 9)

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D633W101-ARO

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1 QUANTITIES MAY VARY

PSU SHOWN IS THE MANIFOLD IN BOX TYPE. MANIFOLD ON GENERATOR TYPE IS NOT SHOWN.

488976 S0000146447_V3

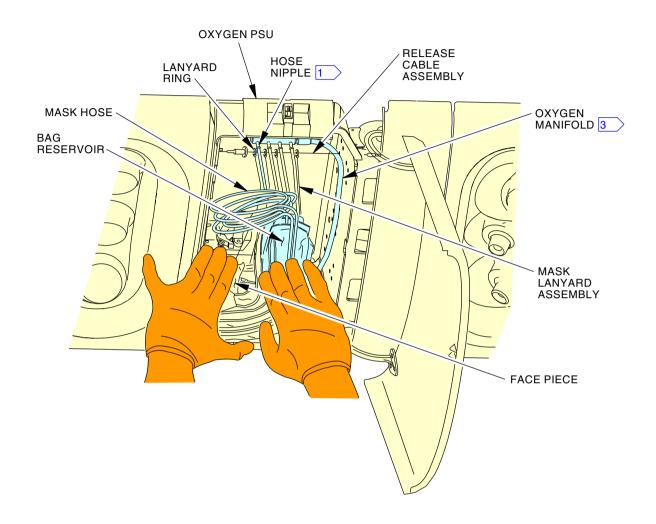
Main Cabin Outboard Oxygen PSU Mask Packing Figure 207/35-21-13-990-818 (Sheet 5 of 9)

ARO ALL

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1 QUANTITIES MAY VARY

PSU SHOWN IS THE MANIFOLD IN BOX TYPE. MANIFOLD ON GENERATOR TYPE IS NOT SHOWN.

489169 S0000146451_V3

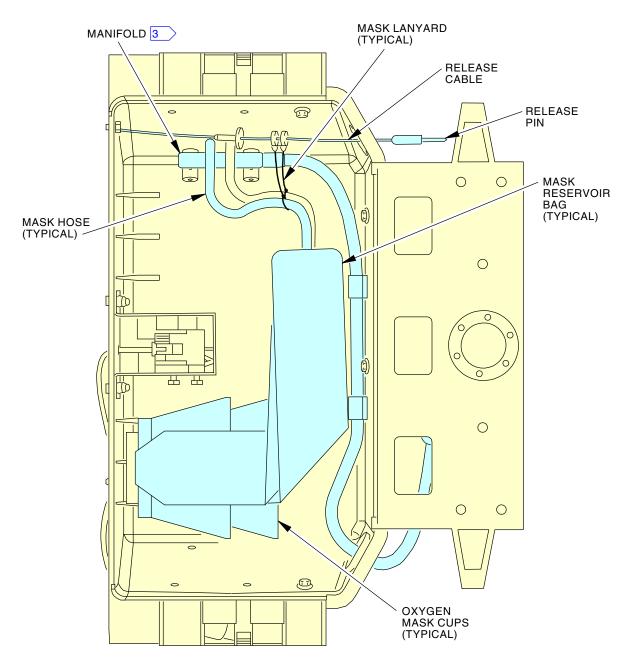
Main Cabin Outboard Oxygen PSU Mask Packing Figure 207/35-21-13-990-818 (Sheet 6 of 9)

ARO ALL

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OXYGEN BOX CHEMICAL TYPE TWO-MASK CONFIGURATION (EXAMPLE)

PSU SHOWN IS THE MANIFOLD IN BOX TYPE. MANIFOLD ON GENERATOR TYPE IS NOT SHOWN.

W46563 S0000123799_V3

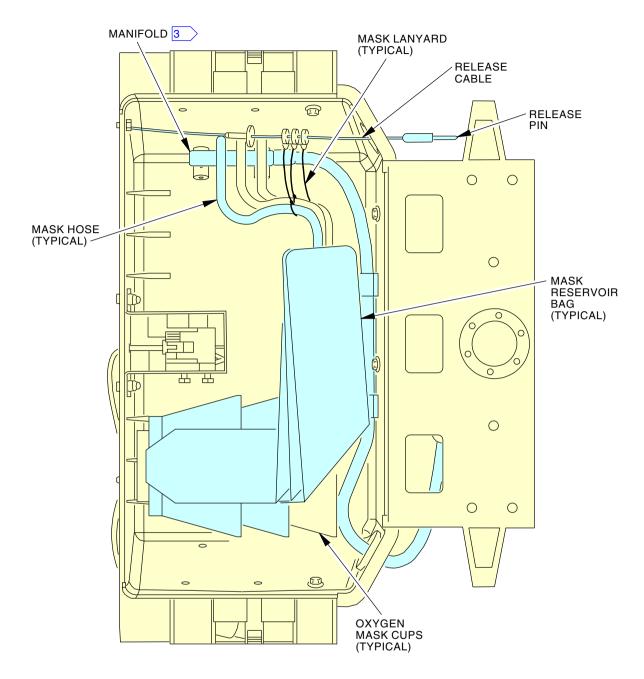
Main Cabin Outboard Oxygen PSU Mask Packing Figure 207/35-21-13-990-818 (Sheet 7 of 9)

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D633W101-ARO

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OXYGEN BOX CHEMICAL TYPE-THREE MASK CONFIGURATION (EXAMPLE)

3

> PSU SHOWN IS THE MANIFOLD IN BOX TYPE. MANIFOLD ON GENERATOR TYPE IS NOT SHOWN.

W46450 S0000123800_V3

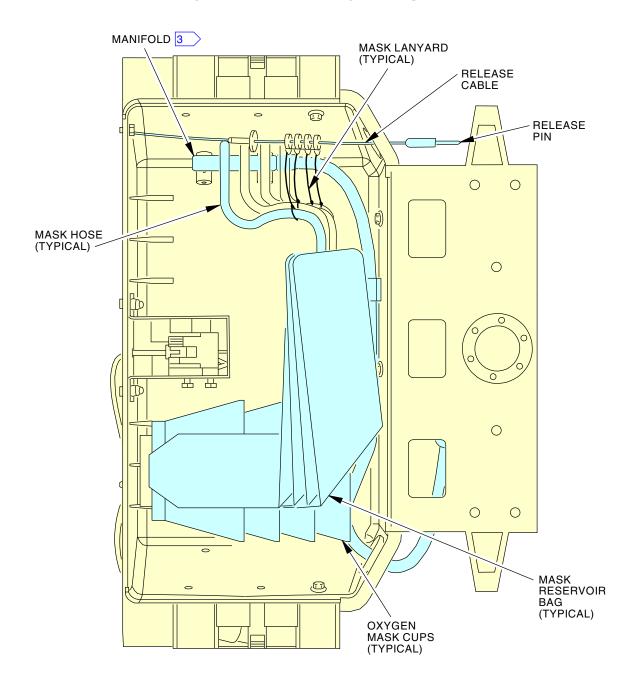
Main Cabin Outboard Oxygen PSU Mask Packing Figure 207/35-21-13-990-818 (Sheet 8 of 9)

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OXYGEN BOX CHEMICAL TYPE FOUR-MASK CONFIGURATION (EXAMPLE)

PSU SHOWN IS THE MANIFOLD IN BOX TYPE. MANIFOLD ON GENERATOR TYPE IS NOT SHOWN.

W46809 S0000123802_V3

Main Cabin Outboard Oxygen PSU Mask Packing Figure 207/35-21-13-990-818 (Sheet 9 of 9)

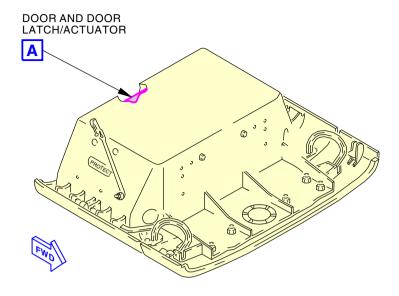
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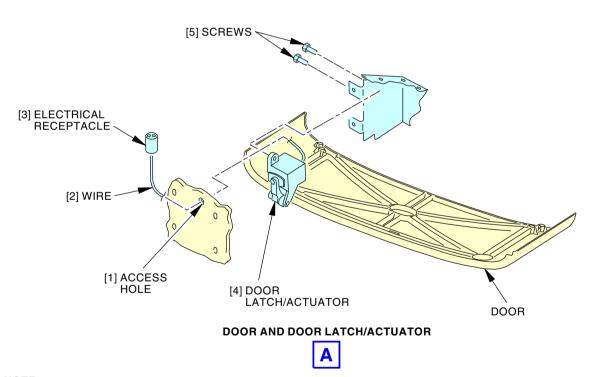
35-21-13

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MAIN CABIN OUTBOARD PSU (EXAMPLE)



NOTE:

OXYGEN GENERATOR IS NOT SHOWN.

1303231 S0000222623_V2

Main Cabin Outboard Oxygen PSU Mask Door Latch Removal / Installation Figure 208/35-21-13-990-821

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D633W101-ARO

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PORTABLE OXYGEN EQUIPMENT - MAINTENANCE PRACTICES

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
 - (3) Remove and 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, send the unit to an approved overhaul depot if it does not operate correctly.

TASK 35-31-00-210-802

2. Portable Oxygen Cylinder Pressure and Condition Check

(Figure 201 or Figure 202)

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. Consumable Materials

Reference	Description	Specification
A50074	Tape - Nitto P-50 (Formerly Permacel)	
	Multi-Purpose Double-Coated Cloth Tape	
A50464	Tape - Vinyl, Adhesive Coated	BMS5-179
G50536	Tape - 3M Vinyl Tape 474 (use until stock depleted)	

C. Location Zones

Zone	Area	
200	Upper Half of Fuselage	

D. Preparation

SUBTASK 35-31-00-910-001

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

E. Oxygen Pressure Check

SUBTASK 35-31-00-210-004

- (1) Depending on the manufacturing material of the oxygen cylinder, do sub-step (a) or (b).
 - (a) For oxygen cylinders with US DOT-SP-8162-1850, US DOT-SP-10915-1850, or US DOT-SP-10945-1850 composite oxygen cylinders, make sure that the portable oxygen cylinder pressure is not more than 1850 psi (12,755 kPa) at 70°F (21°C).

NOTE: See Figure 201 (Sheet 1) for equivalent portable oxygen cylinder pressures for temperatures other than 70 °F (21 °C).

ARO ALL



(b) For oxygen cylinders US DOT-3AA-1800; make sure the portable oxygen cylinder pressure gage is not more than 1800 psig (12,411 kPa) at 70°F (21°C).

NOTE: See Figure 201 (Sheet 1) for equivalent portable oxygen cylinder pressures for temperatures other than 70 °F (21 °C).

SUBTASK 35-31-00-960-001

(2) Replace the oxygen cylinder if the gauge pressure is below the pressure set for the airline or regulatory authority.

F. Portable Oxygen Cylinder Condition Check

SUBTASK 35-31-00-210-002

(1) Make sure that the oxygen cylinders are correctly installed to the wall-mounted brackets or containers, where applicable.

SUBTASK 35-31-00-210-003

- (2) Make sure that the oxygen cylinders are in a satisfactory condition:
 - (a) Make sure that the oxygen cylinder assemblies are clean. Clean the cylinder assemblies, if necessary. Do this task: Portable Oxygen Cylinder Cleaning, TASK 35-31-00-100-801.
 - (b) Make sure that the oxygen cylinders are not damaged.
 - Make sure that the velcro strap, or tape, that attaches the oxygen mask bag to the oxygen cylinder is serviceable. Replace the 3M vinyl tape 474, G50536, tape, A50464 or Nitto P-50 tape, A50074, if necessary.
 - a) Use only one thickness of the tape and overlap the tape ends 3 +1 / -2 in. (8 +3 / -5 cm). Put the mask so you can see the pressure gage when the cylinder is installed.

NOTE: The portable oxygen mask must be easy to remove.

NOTE: The hydrostatic test date must be in the approved life limit. Regulatory authorities, the cylinder manufacturer, and the airline set the life limit.

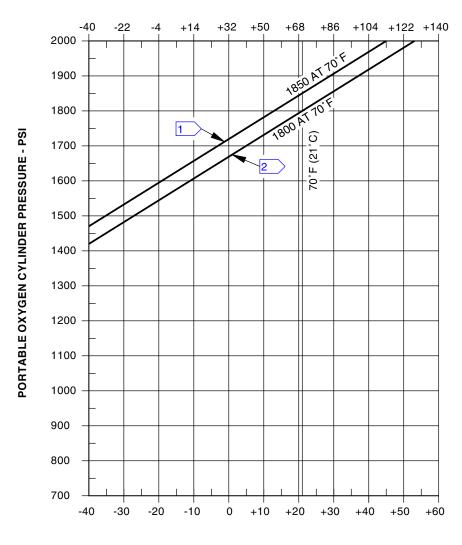
SUBTASK 35-31-00-210-008

(3) Make sure that the supply hose of one mask is connected to the outlet of the oxygen cylinder marked "HI".

----- END OF TASK -----



TEMPERATURE - °F



TEMPERATURE - °C

NOTES:

MAXIMUM ALLOWABLE PRESSURE FOR FULLY SERVICED PORTABLE OXYGEN CYLINDER.

1 US DOT-SP-8162-1850, US DOT-SP-10915-1850, OR US DOT-SP-10945-1850 (COMPOSITE)

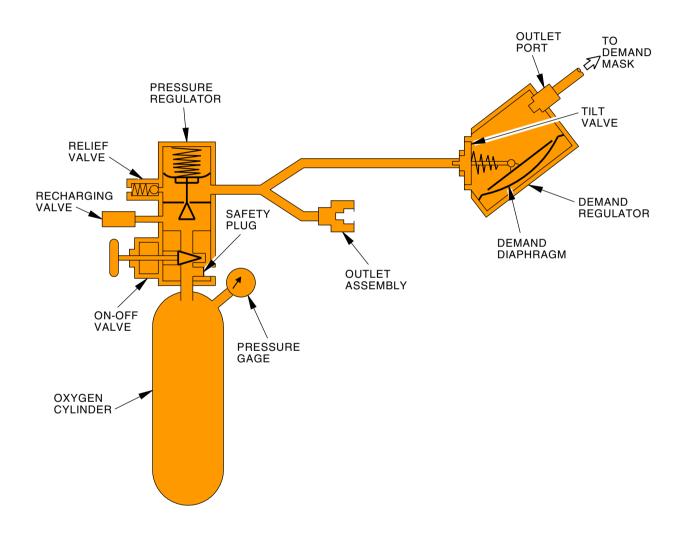
2 US DOT-3AA-1800 (STEEL)

G79922 S0006421590_V5

Oxygen Cylinder Pressure Temperature Correction Chart Figure 201/35-31-00-990-802

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C95353 S0006421589_V2

Portable Oxygen Equipment Test Figure 202/35-31-00-990-804

EFFECTIVITY

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35-31-00

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TASK 35-31-00-210-801

3. Portable Oxygen Mask Condition Check

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. Tools/Equipment

Reference	Description
STD-6161	Magnifying Glass
STD-6998	Source - Light

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Preparation

SUBTASK 35-31-00-910-007

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

E. Portable Oxygen Mask Condition Check

SUBTASK 35-31-00-210-009

- (1) For portable oxygen cylinders with part number 28301 series masks, do these steps:
 - (a) Do a general visual inspection of the mask bag and strap.
 - 1) Make sure that the bag and strap are not damaged, and that the strap is tight on the bag.
 - a) It is not necessary to replace the oxygen mask if the storage bag has a small cut. This will let the mask connect to the oxygen cylinder.
 - b) If the oxygen mask bag, or the oxygen mask for the oxygen cylinders is damaged, replace the mask assembly.

NOTE: The p/n 28301 series oxygen mask is a disposable item. The maintenance instructions for the portable oxygen cylinder do not give an inspection procedure to clean the oxygen mask.

SUBTASK 35-31-00-210-010

- (2) For cylinders with the part number 289-601 and 289-801 series oxygen masks, do a general visual inspection of the oxygen mask assembly.
 - (a) Make sure that there are no broken or missing parts.
 - (b) Examine the face cup of the mask. Make sure that:
 - 1) It is not damaged.
 - 2) It is flexible.
 - 3) There are no permanent deformations.
 - 4) The head strap is not damaged or permanently out of its shape.
 - 5) The head strap is fully connected to the face cup.
 - 6) The color of the face mask is not changed.

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- 7) The mask cup is not tacky. (The material does not bond to your fingers when you touch it).
- (c) Examine the reservoir bag. Make sure that:
 - 1) Moisture or liquid drops do not show in the bag.
 - 2) There is no dirt or unwanted solids in the bag.
 - 3) It is flexible and shows no permanent deformations.
 - 4) There are no cuts, tears or cracks.
 - 5) It is fully connected to the mask cup and the supply hose.
 - 6) The color is not changed.
 - 7) The reservoir bag is not tacky. (The material does not bond to your fingers when you touch it).
- (d) Examine the oxygen supply tube. Make sure that:
 - 1) Moisture or liquid drops do not show in the tube.
 - 2) There is no dirt or unwanted solids in the tube.
 - 3) It is flexible and shows no permanent deformations.
 - 4) There are no cuts, tears or cracks.
 - 5) It is fully connected to the mask cup.
 - 6) It is fully connected to the oxygen cylinder.
 - 7) The color has not changed.
 - 8) The tube is not tacky. (The material does not bond to your fingers when you touch it).
- (e) If the oxygen mask assembly shows defects, replace the mask assembly with a serviceable mask assembly.

SUBTASK 35-31-00-210-011

- (3) For portable oxygen cylinders that have the part number 174095 or 174097 series masks, do these steps:
 - (a) Do a general visual inspection of the mask bag and strap.
 - 1) Make sure that the bag and strap are not damaged, and that the strap is tight on the bag and cylinder.
 - a) If the mask is damaged, replace the mask.
 - (b) Examine the oxygen mask parts. Use a bright light source, STD-6998 and a magnifying glass, STD-6161.
 - 1) Make sure that the oxygen mask parts do not show damage, deformation, cracks, or deterioration.
 - 2) Make sure that the supply hose does not show a color change or contamination.
 - Make sure that the arrow on the flow indicator of the supply hose points to the reservoir bag.
 - (c) If the oxygen mask assembly shows defects, replace the mask assembly with a serviceable mask assembly.

	END	OF	TASK	
--	------------	----	-------------	--



TASK 35-31-00-710-802

4. Oxygen Cylinder Leak Check

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. Procedure

SUBTASK 35-31-00-910-002

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

SUBTASK 35-31-00-790-001

(2) Turn the knob on the ON-OFF valve counterclockwise to open it.

SUBTASK 35-31-00-790-002

- (3) Do a check of the 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) Rub the leak detection compound, G50306 off with cotton wiper, G00034 immediately after you do the check to make the fittings and connections dry.



DO NOT TIGHTEN THE FITTINGS OR CONNECTIONS MORE THAN 25 POUND-INCHES. THIS CAN CAUSE DAMAGE TO THE EQUIPMENT.

- 1) If you find leaks, tighten the fittings and connections.
- 2) If you cannot stop the leaks, send the oxygen cylinder to an approved facility for an overhaul.

NOTE: Do not permit the leaks to continue.

SUBTASK 35-31-00-860-001

(4) Turn the knob on the ON-OFF valve clockwise to close it.

------ END OF TASK ------

TASK 35-31-00-960-801

5. Remove and Replace Portable Oxygen Cylinder

NOTE: This procedure is a scheduled maintenance task.

ARO ALL



A. References

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

B. Location Zones

Zone	Area
221	Passenger Compartment, Left - Section 41
222	Passenger Compartment, Right - Section 41

C. Portable Oxygen Cylinder Removal

SUBTASK 35-31-00-910-003



MAKE SURE YOU OBEY ALL LOCAL SAFETY PROCEDURES BEFORE YOU DO WORK ON THE GASEOUS OXYGEN SYSTEM. THIS WILL PREVENT INJURY TO PERSONS OR DAMAGE TO EQUIPMENT.

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

SUBTASK 35-31-00-210-006

- (2) Make sure the replacement 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 cylinder.

SUBTASK 35-31-00-010-001

(3) Open the stowage compartment door to get access to the portable oxygen cylinder.

SUBTASK 35-31-00-000-001

- (4) Loosen the straps that hold the portable oxygen cylinder in place, where applicable.
 - (a) Remove the portable oxygen cylinder.

SUBTASK 35-31-00-410-001

(5) Close the stowage compartment door.

D. Install the Portable Oxygen Cylinder

SUBTASK 35-31-00-910-004

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

SUBTASK 35-31-00-010-002

(2) Open the stowage compartment door.

ARO ALL; AIRPLANES WITH AV2014595-11 PORTABLE O2 SYSTEM

SUBTASK 35-31-00-420-002

- (3) Secure carrying handle to oxygen bottle with Velcro strap as follows:
 - (a) Fold the handle into approximately 3.0 in. (7.6 cm) long folds.
 - (b) Wrap approximately 21.0 in. (53.3 cm) of Velcro strap over the carrying strap, tubing and the bottle with Velcro pile side out.

NOTE: Place the strap where the tubing enters the mask bag.

ARO ALL



ARO ALL; AIRPLANES WITH AV2014595-11 PORTABLE O2 SYSTEM (Continued)

(c) With an approximately 3.0 in. (7.6 cm) overlap of Velcro fold free end under twice to create a 1.0 in. (2.5 cm) square pull tab.

ARO ALL

SUBTASK 35-31-00-420-001

- (4) Put the service-ready portable oxygen cylinder in the correct stowage area and attach it in its position.
 - (a) Make sure that the portable oxygen cylinder can be easily removed.
 - (b) Make sure that the strap latch opens and does not hit the structure.
 - (c) If the latch hits the structure, change the position of the straps.

SUBTASK 35-31-00-410-002

- (5) Make sure that the hose and the oxygen mask are stowed correctly.
 - (a) Remove the plastic (bag), if installed, from the regulator and valve assembly.
 - (b) Make sure that the oxygen mask does not contact the stowage compartment walls or door.
 - (c) Make sure that the mask hose is connected to the outlet port on the regulator.

SUBTASK 35-31-00-410-003

(6) Close the stowage compartment door.

----- END OF TASK -----

ARO ALL 35-31-00



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Pulse Portable Oxygen Cylinder Installation Figure 203/35-31-00-990-805

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35-31-00

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TASK 35-31-00-100-801

6. Portable Oxygen Cylinder Cleaning

A. References

Reference	Title
35-00-00-100-801	Oxygen System Component Cleaning (P/B 701)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)

B. Consumable Materials

Reference	Description	Specification
A50074	Tape - Nitto P-50 (Formerly Permacel)	
	Multi-Purpose Double-Coated Cloth Tape	
A50464	Tape - Vinyl, Adhesive Coated	BMS5-179
G50536	Tape - 3M Vinyl Tape 474 (use until stock depleted)	

C. Procedure

SUBTASK 35-31-00-910-006

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

SUBTASK 35-31-00-010-003

(2) As necessary for access, remove the portable oxygen cylinder assembly, do this task: Remove and Replace Portable Oxygen Cylinder, TASK 35-31-00-960-801

SUBTASK 35-31-00-100-001

(3) Do this task to clean the exterior surfaces of the oxygen cylinder assembly and oxygen mask bag: Oxygen System Component Cleaning, TASK 35-00-00-100-801.

SUBTASK 35-31-00-100-002

- (4) For portable oxygen cylinders equipped with the part number 289–601 series oxygen masks, do these steps if it is necessary to clean the oxygen mask assemblies:
 - (a) Remove the tape, or velcro strap, that attaches the oxygen mask bag to the portable oxygen cylinder, and remove the mask and bag assembly.
 - (b) Clean the mask assembly per the manufacturers CMM (AVOX Systems CMM 35–22–26).
 - (c) Reattach the oxygen mask and bag assembly to the portable oxygen cylinder. Use the velcro strap, the 3M vinyl tape 474, G50536, tape, A50464, or Nitto P-50 tape, A50074, as applicable. Make sure the mask bag is positioned so that the oxygen cylinder pressure gauge is visible when the cylinder is installed in the mounting brackets.
 - 1) Use only one thickness of the tape and overlap the tape ends 3 + 1 / -2 in. (8 + 3 / -5 cm).
 - NOTE: The mask must be easy to remove.
 - 2) Make sure that the hose is connected to the outlet port on the regulator.

SUBTASK 35-31-00-410-004

(5) Do this task, as necessary, to install the portable oxygen cylinders: Remove and Replace Portable Oxygen Cylinder, TASK 35-31-00-960-801.

——— FND OF TASK ———		 	
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35-31-00

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EFFECTIVITY -

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