CHAPTER 35

OXYGEN

CHAPTER 35
OXYGEN

Subject/Page	Date	COC
35-EFFECTIVE PAGES		
1 thru 5	Feb 15/2025	
6	BLANK	
35-CONTENTS		
1	Oct 15/2017	
2	Feb 15/2023	
O 3	Feb 15/2025	
4	Oct 15/2021	
5	Oct 15/2024	
R 6	Feb 15/2025	
R 7	Feb 15/2025	
R 8	Feb 15/2025	
R 9	Feb 15/2025	
O 10	BLANK	
35-00-00		
201	Jun 15/2024	
202	Jun 15/2024	
203	Jun 15/2024	
204	Jun 15/2024	
205	Oct 15/2017	
206	Jun 15/2022	
207	Feb 15/2022	
208	Feb 15/2022	
209	Feb 15/2022	
210	Feb 15/2022	
211	Oct 15/2017	
212	Oct 15/2017	
213	Oct 15/2017	
214	Oct 15/2017	
215	Oct 15/2017	
216	Oct 15/2017	
35-00-00		
301	Oct 15/2024	
R 302	Feb 15/2025	
303	Oct 15/2024	
304	BLANK	
35-00-00		
701	Jun 15/2022	
702	Feb 15/2022	
703	Jun 15/2021	
704	BLANK	
35-00-00		
901	Oct 15/2022	
902	Oct 15/2022	
903	Feb 15/2024	
904	Feb 15/2023	
905	Feb 15/2023	
906	Jun 15/2024	
907	Feb 15/2023	
908	Feb 15/2023	
909	Oct 15/2022	
910	Oct 15/2022	
911	Oct 15/2022	
912	BLANK	
35-12-00		
201	Oct 15/2023	
202	Oct 15/2024	
203	Oct 15/2015	
204	Oct 15/2024	
205	Oct 15/2021	
206	Jun 15/2023	
207	Oct 15/2024	
208	Oct 15/2020	
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R 213	Feb 15/2025	
214	Feb 15/2024	
215	Jun 15/2017	
216	Oct 15/2024	
217	Oct 15/2021	
218	Jun 15/2017	
35-12-00		
501	Jun 15/2021	
502	Jun 15/2021	
503	Oct 15/2024	
504	Oct 15/2024	
505	Oct 15/2024	
506	Jun 15/2023	
507	Oct 15/2020	
508	Oct 15/2024	
509	Jun 15/2023	
510	Oct 15/2020	
511	Jun 15/2024	
R 512	Feb 15/2025	
513	Oct 15/2024	
514	Oct 15/2020	
515	Oct 15/2021	
516	Oct 15/2024	
517	Oct 15/2020	
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R 519	Feb 15/2025	
R 520	Feb 15/2025	
R 521	Feb 15/2025	
O 522	Feb 15/2025	
O 523	Feb 15/2025	
O 524	Feb 15/2025	
O 525	Feb 15/2025	
O 526	Feb 15/2025	
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O 529	Feb 15/2025	
O 530	Feb 15/2025	
O 531	Feb 15/2025	
O 532	BLANK	
35-12-00		
601	Oct 15/2024	
602	Oct 15/2022	
603	Jun 15/2024	

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35-12-00 (cont)		
604	Oct 15/2015	
605	Oct 15/2024	
606	Oct 15/2021	
607	Jun 15/2022	
608	Oct 15/2022	
609	Oct 15/2024	
R 610	Feb 15/2025	
O 611	Feb 15/2025	
R 612	Feb 15/2025	
O 613	Feb 15/2025	
614	Oct 15/2024	
615	Oct 15/2024	
616	Jun 15/2023	
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619	Oct 15/2024	
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R 622	Feb 15/2025	
623	Oct 15/2024	
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R 627	Feb 15/2025	
628	Oct 15/2023	
629	Oct 15/2023	
630	BLANK	
35-12-11		
401	Jun 15/2023	
402	Jun 15/2023	
403	Oct 15/2015	
404	Oct 15/2024	
405	Oct 15/2021	
406	Oct 15/2024	
407	Oct 15/2021	
408	Oct 15/2024	
35-12-11 (cont)		
409	Jun 15/2023	
410	Oct 15/2022	
411	Oct 15/2024	
412	Oct 15/2022	
413	Jun 15/2024	
414	Jun 15/2024	
415	Oct 15/2024	
R 416	Feb 15/2025	
35-12-21		
401	Oct 15/2014	
402	Oct 15/2017	
403	Oct 15/2015	
404	Oct 15/2024	
405	Oct 15/2021	
R 406	Feb 15/2025	
R 407	Feb 15/2025	
408	BLANK	
35-12-22		
401	Oct 15/2024	
402	Oct 15/2015	
403	Oct 15/2024	
404	BLANK	
35-12-51		
401	Jun 15/2022	
402	Oct 15/2014	
403	Oct 15/2015	
404	Jun 15/2022	
35-12-61		
401	Oct 15/2016	
402	Oct 15/2017	
403	Oct 15/2016	
404	Oct 15/2016	
405	Oct 15/2016	
406	BLANK	
35-12-71		
401	Oct 15/2021	
402	Oct 15/2021	
35-12-71 (cont)		
403	Oct 15/2021	
404	Oct 15/2021	
35-12-81		
401	Oct 15/2021	
402	Oct 15/2021	
403	Oct 15/2021	
404	Oct 15/2021	
405	Jun 15/2022	
406	Oct 15/2021	
407	Oct 15/2021	
408	BLANK	
35-12-85		
201	Jun 15/2024	
202	Jun 15/2024	
203	Oct 15/2024	
204	Oct 15/2024	
R 205	Feb 15/2025	
O 206	Feb 15/2025	
207	Oct 15/2024	
208	Oct 15/2022	
209	Oct 15/2024	
210	Oct 15/2024	
211	Oct 15/2020	
212	Oct 15/2024	
213	Oct 15/2020	
214	Oct 15/2024	
35-12-85 Config 1		
R 401	Feb 15/2025	
R 402	Feb 15/2025	
403	Oct 15/2024	
404	Jun 15/2023	
R 405	Feb 15/2025	
406	Jun 15/2023	
407	Oct 15/2024	
R 408	Feb 15/2025	
R 409	Feb 15/2025	
R 410	Feb 15/2025	

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35-12-85 Config 1 (cont)		
R 411	Feb 15/2025	
412	Oct 15/2024	
413	Oct 15/2024	
414	Oct 15/2024	
R 415	Feb 15/2025	
R 416	Feb 15/2025	
R 417	Feb 15/2025	
418	Oct 15/2024	
419	Oct 15/2024	
R 420	Feb 15/2025	
421	Oct 15/2024	
R 422	Feb 15/2025	
R 423	Feb 15/2025	
R 424	Feb 15/2025	
35-12-85		
701	Nov 15/2022	
702	Oct 15/2024	
703	Oct 15/2024	
704	Oct 15/2024	
705	Oct 15/2024	
706	Oct 15/2024	
707	Oct 15/2024	
708	Oct 15/2024	
709	Oct 15/2024	
710	Oct 15/2020	
35-22-00		
501	Oct 15/2024	
502	Jun 15/2024	
503	Oct 15/2024	
504	Oct 15/2024	
505	Oct 15/2024	
506	Oct 15/2024	
507	Oct 15/2024	
508	Oct 15/2024	
R 509	Feb 15/2025	
510	Oct 15/2024	
511	Jun 15/2023	
35-22-00 (cont)		
512	Jun 15/2023	
513	Jun 15/2023	
514	Oct 15/2024	
515	Oct 15/2024	
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522	Oct 15/2024	
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524	Oct 15/2024	
525	Oct 15/2024	
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R 528	Feb 15/2025	
R 529	Feb 15/2025	
O 530	Feb 15/2025	
R 531	Feb 15/2025	
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35-22-11 Config 1		
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R 202	Feb 15/2025	
R 203	Feb 15/2025	
O 204	Feb 15/2025	
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R 208	Feb 15/2025	
R 209	Feb 15/2025	
R 210	Feb 15/2025	
211	Feb 15/2023	
212	BLANK	
35-22-11 Config 1		
R 401	Feb 15/2025	
402	Oct 15/2024	
35-22-11 Config 1 (cont)		
403	Jun 15/2023	
404	Oct 15/2024	
405	Oct 15/2024	
406	Oct 15/2024	
407	Oct 15/2024	
408	Oct 15/2024	
409	Oct 15/2024	
410	Oct 15/2024	
411	Oct 15/2024	
412	Oct 15/2024	
413	Oct 15/2024	
414	Oct 15/2024	
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R 416	Feb 15/2025	
R 417	Feb 15/2025	
R 418	Feb 15/2025	
419	Oct 15/2024	
420	Oct 15/2024	
421	Oct 15/2024	
422	Oct 15/2024	
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424	Oct 15/2024	
R 425	Feb 15/2025	
O 426	Feb 15/2025	
O 427	Feb 15/2025	
R 428	Feb 15/2025	
429	Oct 15/2024	
R 430	Feb 15/2025	
O 431	Feb 15/2025	
O 432	Feb 15/2025	
35-22-21 Config 1		
401	Oct 15/2024	
402	Oct 15/2024	
403	Oct 15/2024	
404	Oct 15/2024	
405	Oct 15/2024	

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35-22-21 Config 1 (cont)		
406	Oct 15/2024	
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408	Oct 15/2024	
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411	Oct 15/2024	
412	Jun 15/2023	
413	Oct 15/2024	
414	Oct 15/2024	
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R 418	Feb 15/2025	
419	Jun 15/2023	
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421	Oct 15/2024	
422	Oct 15/2024	
R 423	Feb 15/2025	
R 424	Feb 15/2025	
35-22-31 Config 1		
R 201	Feb 15/2025	
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204	Oct 15/2024	
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207	Oct 15/2024	
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211	Oct 15/2024	
212	Oct 15/2024	
213	Oct 15/2024	
214	Oct 15/2024	
215	Oct 15/2024	
216	Oct 15/2024	
35-22-31 Config 1 (cont)		
217	Oct 15/2024	
218	Oct 15/2024	
219	Oct 15/2024	
220	Oct 15/2024	
221	Oct 15/2024	
222	Oct 15/2024	
223	Oct 15/2024	
224	Oct 15/2024	
225	Oct 15/2024	
226	Oct 15/2024	
227	Oct 15/2024	
228	Oct 15/2023	
R 229	Feb 15/2025	
230	Oct 15/2023	
231	Oct 15/2024	
R 232	Feb 15/2025	
233	Oct 15/2023	
234	Feb 15/2023	
235	Feb 15/2023	
236	Feb 15/2023	
237	Feb 15/2023	
238	Feb 15/2023	
239	Feb 15/2023	
240	Jun 15/2023	
241	Oct 15/2024	
242	Oct 15/2024	
243	Feb 15/2023	
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245	Jun 15/2023	
R 246	Feb 15/2025	
247	Jun 15/2023	
248	Jun 15/2023	
35-22-31 Config 1		
R 401	Feb 15/2025	
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O 403	Feb 15/2025	
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408	Oct 15/2024	
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410	Oct 15/2024	
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R 414	Feb 15/2025	
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R 417	Feb 15/2025	
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R 419	Feb 15/2025	
O 420	Feb 15/2025	
O 421	Feb 15/2025	
R 422	Feb 15/2025	
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R 424	Feb 15/2025	
R 425	Feb 15/2025	
O 426	Feb 15/2025	
O 427	Feb 15/2025	
R 428	Feb 15/2025	
O 429	Feb 15/2025	
R 430	Feb 15/2025	
R 431	Feb 15/2025	
R 432	Feb 15/2025	
O 433	Feb 15/2025	
R 434	Feb 15/2025	
35-22-31 Config 1		
R 701	Feb 15/2025	
R 702	Feb 15/2025	
703	Oct 15/2024	
704	Oct 15/2024	

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401	Oct 15/2024		401	Jun 15/2024				
402	Oct 15/2023		402	Oct 15/2024				
403	Oct 15/2023		403	Oct 15/2019				
404	Jun 15/2024		404	BLANK				
405	Oct 15/2024		35-31-02					
406	Oct 15/2024		401	Oct 15/2024				
407	Oct 15/2024		402	Jun 15/2018				
408	BLANK		403	Jun 15/2018				
35-22-51			404	Jun 15/2018				
R 201	Feb 15/2025		405	Oct 15/2024				
R 202	Feb 15/2025		406	Jun 15/2018				
R 203	Feb 15/2025							
R 204	Feb 15/2025							
R 205	Feb 15/2025							
206	BLANK							
35-22-51								
R 401	Feb 15/2025							
R 402	Feb 15/2025							
R 403	Feb 15/2025							
R 404	Feb 15/2025							
R 405	Feb 15/2025							
R 406	Feb 15/2025							
R 407	Feb 15/2025							
R 408	Feb 15/2025							
35-31-00								
601	Oct 15/2023							
602	Oct 15/2024							
603	Oct 15/2015							
604	Feb 15/2023							
605	Jun 15/2023							
606	BLANK							
35-31-00								
701	Jun 15/2022							
702	Oct 15/2024							
703	Oct 15/2024							
704	BLANK							

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Safety Precautions TASK 35-00-00-910-802			201	LOM ALL
Maintenance Practices TASK 35-00-00-910-803			204	LOM ALL
Leak Detection TASK 35-00-00-790-801			206	LOM ALL
Installation of Caps on Open Oxygen Lines TASK 35-00-00-420-801			209	LOM ALL
Oxygen Tubing Removal and Installation TASK 35-00-00-910-804			211	LOM ALL
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Servicing of the Crew Oxygen System TASK 35-00-00-600-801			301	LOM ALL
Servicing of the Passenger Oxygen System TASK 35-00-00-600-802			301	LOM ALL
Portable Oxygen System Servicing TASK 35-00-00-600-803			302	LOM ALL
OXYGEN - CLEANING/PAINTING	35-00-00		701	LOM ALL
Clean the Oxygen System Components TASK 35-00-00-100-801			701	LOM ALL
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MMEL 35-02 (DDPG) Preparation - Passenger Service Units (PSUs) Inoperative TASK 35-00-00-040-801			901	LOM ALL
MMEL 35-02 (DDPG) Restoration - Passenger Service Units (PSUs) Inoperative TASK 35-00-00-440-801			902	LOM ALL
MMEL 35-02-01 (DDPG) Preparation - Passenger Service Units - Automatic Presentation Inoperative TASK 35-00-00-040-803			902	LOM ALL

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MMEL 35-02-02 (DDPG) Preparation - Passenger Service Units - Door Latches Inoperative TASK 35-00-00-040-804			904	LOM ALL
MMEL 35-02-02 (DDPG) Restoration - Passenger Service Units - Door Latches Inoperative TASK 35-00-00-440-812			905	LOM ALL
MMEL 35-03-01 (DDPG) Preparation - Flight Deck Oxygen Pressure Indicator Inoperative TASK 35-00-00-440-802			905	LOM ALL
MMEL 35-03-01 (DDPG) Restoration - Flight Deck Oxygen Pressure Indicator Inoperative TASK 35-00-00-440-803			906	LOM ALL
MMEL 35-03-02 (DDPG) Preparation - External Service Panel Crew Oxygen Indicator Inoperative TASK 35-00-00-200-801			906	LOM 443, 444, 450
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MMEL 35-04 (DDPG) Preparation - Portable Oxygen Dispensing Units Inoperative TASK 35-00-00-440-804			907	LOM ALL
MMEL 35-04 (DDPG) Restoration - Portable Oxygen Dispensing Units Inoperative TASK 35-00-00-440-805			908	LOM ALL
MMEL 35-05A (DDPG) Preparation - Passenger Oxygen System Inoperative TASK 35-00-00-440-806			908	LOM ALL
MMEL 35-05A (DDPG) Restoration - Passenger Oxygen System Inoperative TASK 35-00-00-440-807			909	LOM ALL
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Bleed the Crew Oxygen System Prior to System Maintenance or Repair TASK 35-12-00-800-801			201	LOM ALL
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Crew Oxygen System - Deactivation TASK 35-12-00-040-801			213	LOM ALL
Crew Oxygen System - Activation TASK 35-12-00-440-801			218	LOM ALL
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Crew Oxygen Stowage Box Test (Mask Stowed in Stowage Box) TASK 35-12-00-700-801			501	LOM ALL
Crew Oxygen Mask-Regulator Test TASK 35-12-00-700-802			522	LOM ALL
Crew Oxygen Pressure Indication Operational Test TASK 35-12-00-710-801			525	LOM ALL
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Crew Oxygen Operational Leak Check TASK 35-12-00-800-803			601	LOM ALL
Crew Oxygen System Pressure Decay Leak Check TASK 35-12-00-710-802			607	LOM ALL
Crew Oxygen Cylinder Correct Installation and Condition Check TASK 35-12-00-211-801			628	LOM ALL

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Regulator/Transducer Assembly Component Removal TASK 35-12-11-000-802			409	LOM ALL
Regulator/Transducer Assembly Component Installation TASK 35-12-11-400-802			412	LOM ALL
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Crew Oxygen Pressure Indicator Installation TASK 35-12-22-400-801			403	LOM ALL
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Remote Fill Line Check Valve Installation TASK 35-12-61-400-801			405	LOM ALL

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Oxygen Mask Stowage Box Installation TASK 35-12-85-400-801		1	407	LOM ALL
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Passenger Oxygen System - Manual Deploy Operational Test TASK 35-22-00-700-802			521	LOM ALL
Visual Inspection of the Oxygen Generator TASK 35-22-00-210-801			527	LOM ALL
Visual Inspection of the Oxygen Cylinder (CDS) TASK 35-22-00-210-802			529	LOM 404, 416, 422, 425, 432-434, 440, 442, 445-447, 450-999; LOM 402, 406, 407 POST SB 737-35-1146
OXYGEN GENERATOR - MAINTENANCE PRACTICES	35-22-11	1	201	LOM ALL
Oxygen Generator Deactivation TASK 35-22-11-000-811-001		1	201	LOM ALL
Oxygen Generator Activation TASK 35-22-11-400-811-001		1	208	LOM ALL
OXYGEN GENERATOR - REMOVAL/INSTALLATION	35-22-11	1	401	LOM ALL
PSU Oxygen Generator Removal TASK 35-22-11-000-804-001		1	401	LOM ALL
PSU Oxygen Generator Installation TASK 35-22-11-400-804-001		1	415	LOM ALL
ASU Oxygen Generator Removal TASK 35-22-11-000-805-001		1	418	LOM ALL
ASU Oxygen Generator Installation TASK 35-22-11-400-805-001		1	423	LOM ALL
LSU Oxygen Generator Removal TASK 35-22-11-000-806-001		1	425	LOM 411, 412, 415, 420, 423, 424, 426-431, 437-439, 441, 443, 444; LOM 402, 406, 407 PRE SB 737-35-1146
LSU Oxygen Generator Installation TASK 35-22-11-400-806-001		1	430	LOM 411, 412, 415, 420, 423, 424, 426-431, 437-439, 441, 443, 444; LOM 402, 406, 407 PRE SB 737-35-1146
OXYGEN MASK DOOR LATCH ACTUATOR - REMOVAL/INSTALLATION	35-22-21	1	401	LOM ALL
PSU Door Latch Actuator Removal TASK 35-22-21-000-801-001		1	401	LOM ALL

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SUBJECT	CHAPTER SECTION SUBJECT	CONF	PAGE	EFFECT
PSU Door Latch Actuator Installation TASK 35-22-21-400-801-001		1	408	LOM ALL
ASU Door Latch Actuator Removal TASK 35-22-21-000-802-001		1	411	LOM ALL
ASU Door Latch Actuator Installation TASK 35-22-21-400-802-001		1	416	LOM ALL
LSU Door Latch Actuator Removal TASK 35-22-21-000-803-001		1	417	LOM ALL
LSU Door Latch Actuator Installation TASK 35-22-21-400-803-001		1	422	LOM ALL
PASSENGER OXYGEN MASK - MAINTENANCE PRACTICES	35-22-31	1	201	LOM ALL
PSU Oxygen Mask Packing TASK 35-22-31-000-803-001		1	201	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426
PSU Oxygen Mask Packing TASK 35-22-31-440-801		1	214	LOM 427-434, 437-447, 450-999
ASU and LSU Oxygen Mask Packing TASK 35-22-31-000-804-001		1	228	LOM ALL
Visual Inspection of the Oxygen Mask TASK 35-22-31-210-801-001		1	245	LOM ALL
PASSENGER OXYGEN MASK - REMOVAL/INSTALLATION	35-22-31	1	401	LOM ALL
PSU Oxygen Mask Removal TASK 35-22-31-000-801-001		1	401	LOM ALL
PSU Oxygen Mask Installation TASK 35-22-31-400-801-001		1	409	LOM ALL
ASU and LSU Oxygen Mask Removal TASK 35-22-31-000-802-001		1	411	LOM 411, 412, 415, 420, 423, 424, 426-431, 437-439, 441, 443, 444; LOM 402, 406, 407 PRE SB 737-35-1146
ASU and LSU Oxygen Mask Installation TASK 35-22-31-400-802-001		1	418	LOM 411, 412, 415, 420, 423, 424, 426-431, 437-439, 441, 443, 444; LOM 402, 406, 407 PRE SB 737-35-1146

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CHAPTER 35
OXYGEN

SUBJECT	CHAPTER SECTION SUBJECT	CONF	PAGE	EFFECT
ASU Oxygen Mask Removal TASK 35-22-31-000-807-001		1	419	LOM 404, 416, 422, 425, 432-434, 440, 442, 445-447, 450-999; LOM 402, 406, 407 POST SB 737-35-1146
ASU Oxygen Mask Installation TASK 35-22-31-400-804-001		1	426	LOM 404, 416, 422, 425, 432-434, 440, 442, 445-447, 450-999; LOM 402, 406, 407 POST SB 737-35-1146
LSU Oxygen Mask Removal TASK 35-22-31-000-808-001		1	427	LOM 404, 416, 422, 425, 432-434, 440, 442, 445-447, 450-999; LOM 402, 406, 407 POST SB 737-35-1146
LSU Oxygen Mask Installation TASK 35-22-31-400-805-001		1	433	LOM 404, 416, 422, 425, 432-434, 440, 442, 445-447, 450-999; LOM 402, 406, 407 POST SB 737-35-1146
PASSENGER OXYGEN MASK - CLEANING	35-22-31	1	701	LOM ALL
Oxygen Mask Assembly Cleaning TASK 35-22-31-100-801-001		1	701	LOM ALL
ALTITUDE PRESSURE SWITCH - REMOVAL/INSTALLATION	35-22-41		401	LOM ALL
Altitude Pressure Switch - Removal (S813) TASK 35-22-41-000-801			401	LOM ALL
Altitude Pressure Switch - Installation (S813) TASK 35-22-41-400-801			404	LOM ALL
OXYGEN CYLINDER (CDS) - MAINTENANCE PRACTICES	35-22-51		201	LOM 404, 416, 422, 425, 432-434, 440, 442, 445-447, 450-999; LOM 402, 406, 407 POST SB 737-35-1146
Oxygen Cylinder (CDS) Deactivation TASK 35-22-51-040-801			201	LOM 404, 416, 422, 425, 432-434, 440, 442, 445-447, 450-999; LOM 402, 406, 407 POST SB 737-35-1146
Oxygen Cylinder (CDS) Activation TASK 35-22-51-440-801			204	LOM 404, 416, 422, 425, 432-434, 440, 442, 445-447, 450-999; LOM 402, 406, 407 POST SB 737-35-1146

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CHAPTER 35
OXYGEN

SUBJECT	CHAPTER SECTION SUBJECT	CONF	PAGE	EFFECT
OXYGEN CYLINDER (CDS) - REMOVAL/INSTALLATION	35-22-51		401	LOM 404, 416, 422, 425, 432-434, 440, 442, 445-447, 450-999; LOM 402, 406, 407 POST SB 737-35-1146
LSU Oxygen Cylinder (CDS) Removal TASK 35-22-51-000-801			401	LOM 404, 416, 422, 425, 432-434, 440, 442, 445-447, 450-999; LOM 402, 406, 407 POST SB 737-35-1146
LSU Oxygen Cylinder (CDS) Installation TASK 35-22-51-400-801			407	LOM 404, 416, 422, 425, 432-434, 440, 442, 445-447, 450-999; LOM 402, 406, 407 POST SB 737-35-1146
PORTABLE OXYGEN EQUIPMENT - INSPECTION/CHECK	35-31-00		601	LOM ALL
Portable Oxygen Cylinder Pressure and Condition Check TASK 35-31-00-710-801			601	LOM ALL
Portable Oxygen Cylinder Leak Check TASK 35-31-00-710-802			605	LOM ALL
PORTABLE OXYGEN SYSTEMS - CLEANING	35-31-00		701	LOM ALL
Clean the Portable Oxygen System Components TASK 35-31-00-100-801			701	LOM ALL
PORTABLE OXYGEN EQUIPMENT - REMOVAL/INSTALLATION	35-31-01		401	LOM ALL
Replace Portable Oxygen Cylinder TASK 35-31-01-960-801			401	LOM ALL
PORTABLE PROTECTIVE BREATHING EQUIPMENT BOX - REMOVAL/INSTALLATION	35-31-02		401	LOM ALL
Portable Protective Breathing Equipment Box Removal TASK 35-31-02-000-801			401	LOM ALL
Portable Protective Breathing Equipment Installation TASK 35-31-02-400-801			406	LOM ALL

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OXYGEN - MAINTENANCE PRACTICES

1. General

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

TASK 35-00-00-910-801

2. Oxygen System General Maintenance Practices

A. General

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

B. Oxygen System General Tasks

SUBTASK 35-00-00-910-004

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

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

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

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

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

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

——— END OF TASK ———

TASK 35-00-00-910-802

3. Safety Precautions

A. References

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

B. Consumable Materials

Reference	Description	Specification
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	AMS3819 Class 1 Grade A or B Form 1 (Supersede BMS15-5 CL A)
G01306	Gloves - Lint-free	
G50306	Compound - Leak Detection, Oxygen System	MIL-PRF-25567 (BAC5402)
G51884	Gloves - Nitrile, Antistatic, Powder And Lint Free	BAC5402

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

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D. Safety Precautions

SUBTASK 35-00-00-910-005

(1) Make sure that only approved persons do maintenance on the oxygen systems.

NOTE: Approved persons are personnel who are trained and understand the dangers and procedures to safely do maintenance on oxygen systems.

SUBTASK 35-00-00-860-002

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

SUBTASK 35-00-00-610-004

WARNING

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

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

(a) Flammable materials

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

(b) Contamination sources

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

(c) Potential ignition sources

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

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

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

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

(g) Use nitrile gloves, G51884, or lint-free gloves, G01306, to do the work on the oxygen system.

SUBTASK 35-00-00-100-002

WARNING

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

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

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

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SUBTASK 35-00-00-860-003

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

(5) Open the oxygen system valves slowly.

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

SUBTASK 35-00-00-910-006

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

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

SUBTASK 35-00-00-910-007

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

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

SUBTASK 35-00-00-420-001

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

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

SUBTASK 35-00-00-910-008

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

SUBTASK 35-00-00-420-002

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

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

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

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SUBTASK 35-00-00-910-009

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

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

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

SUBTASK 35-00-00-860-004

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

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

SUBTASK 35-00-00-790-001

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

SUBTASK 35-00-00-100-001

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

SUBTASK 35-00-00-910-010

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

SUBTASK 35-00-00-420-003

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

END OF TASK

TASK 35-00-00-910-803

4. Maintenance Practices

A. References

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

B. Location Zones

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

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C. Oxygen System General Maintenance Practices

SUBTASK 35-00-00-910-011

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

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

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

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

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

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

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

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

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

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

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

1) the area is clean

2) the area is free from dust or other particles

3) the area is free from parts, solvents, cleaners, and other equipment not related to the oxygen system

4) other planned maintenance is compatible with the oxygen system maintenance.

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

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

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

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SUBTASK 35-00-00-910-012

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

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

SUBTASK 35-00-00-910-013

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

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

END OF TASK

TASK 35-00-00-790-801

5. Leak Detection

A. General

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

B. References

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

C. Consumable Materials

Reference	Description	Specification
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	AMS3819 Class 1 Grade A or B Form 1 (Supersede BMS15-5 CL A)
G01912	Lockwire - MS20995NC32, Monel - 0.032 Inch (0.8128 mm) Diameter	NASM20995
G02479	Lockwire - MS20995CY20, Copper - 0.020 Inch (0.508 mm) Diameter	NASM20995
G50306	Compound - Leak Detection, Oxygen System	MIL-PRF-25567 (BAC5402)
G50310	Tape - Nitto P-412 (Formerly Permacel) Ribbon Dope Thread Sealant Tape	A-A-58092

D. Location Zones

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

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(Continued)

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

E. Procedure - Leak Detection

SUBTASK 35-00-00-910-014

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

SUBTASK 35-00-00-940-001

(2) Complete the maintenance on the oxygen system.

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

SUBTASK 35-00-00-940-002

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

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

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

CAUTION	MANUALLY OPEN THE SHUTOFF VALVE. IF YOU TIGHTEN THE SHUTOFF VALVE TOO MUCH (25 INCH-POUNDS (2.8 NM), MAXIMUM), DAMAGE TO THE VALVE CAN OCCUR.

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

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

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

SUBTASK 35-00-00-940-003

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

SUBTASK 35-00-00-790-002

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

SUBTASK 35-00-00-790-003

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

SUBTASK 35-00-00-790-004

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

SUBTASK 35-00-00-790-005

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

SUBTASK 35-00-00-790-006

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

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CAUTION

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

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

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

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

1) If it is necessary you can seal the pipe thread with Nitto P-412 tape, G50310.

2) Apply the Nitto P-412 tape, G50310 to the external threads.

NOTE: Do not apply the Nitto P-412 tape, G50310 to the last 1 1/2 to 2 1/2 threads at the end of the fitting.

3) Apply 1 1/2 turns of the Nitto P-412 tape, G50310, pulled tight, to the pipe threads.

4) Make sure the Nitto P-412 tape, G50310 does not have an overlap with the internal fitting end.

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

WARNING

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

CAUTION

MANUALLY OPEN THE SHUTOFF VALVE. IF YOU TIGHTEN THE SHUTOFF VALVE TOO MUCH (25 INCH-POUNDS (2.8 NM), MAXIMUM), DAMAGE TO THE VALVE CAN OCCUR.

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

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

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

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

WARNING

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

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

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

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F. Lockwire the Shutoff Valve on the Oxygen Cylinder

SUBTASK 35-00-00-420-004

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

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

CAUTION	MANUALLY OPEN THE SHUTOFF VALVE. IF YOU TIGHTEN THE SHUTOFF VALVE TOO MUCH (25 INCH-POUNDS (2.8 NM), MAXIMUM), DAMAGE TO THE VALVE CAN OCCUR.

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

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

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

(c) Use MS20995NC32 lockwire, G01912, or MS20995CY20 lockwire, G02479, to hold the shutoff valve in the open position.

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

2) Use the double-twist method.

END OF TASK

TASK 35-00-00-420-801

6. Installation of Caps on Open Oxygen Lines

A. Tools/Equipment

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

B. Consumable Materials

Reference	Description	Specification
G00624	Bag - Plastic, General Purpose	

C. Location Zones

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

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D. Installation of Caps on Open Oxygen Lines

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

SUBTASK 35-00-00-910-015

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

SUBTASK 35-00-00-910-016

(2) To make sure that all Flareless Tube Cap, 1/2-20 Thread, STD-1130 or Flareless Tube Plug, 1/2-20 Thread, STD-1131 are cleaned by the oxygen system vapor degrease method, refer to: OHM, Chapter 20-30-03.

SUBTASK 35-00-00-910-017

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

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

SUBTASK 35-00-00-910-018

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

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

SUBTASK 35-00-00-910-019

WARNING

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

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

WARNING

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

(6) Make sure that the fittings, components, plugs or caps used are clean and free of contamination, and thread particles.

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

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SUBTASK 35-00-00-910-022

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

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

SUBTASK 35-00-00-910-023

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

END OF TASK

TASK 35-00-00-910-804

7. Oxygen Tubing Removal and Installation

A. General

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

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

(b) Removal and Installation of Pipe Threaded Fittings.

B. References

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

C. Tools/Equipment

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

D. Consumable Materials

Reference	Description	Specification
G00624	Bag - Plastic, General Purpose	
G50310	Tape - Nitto P-412 (Formerly Permacel) Ribbon Dope Thread Sealant Tape	A-A-58092

E. Location Zones

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

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

SUBTASK 35-00-00-840-001

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

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SUBTASK 35-00-00-910-024

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

SUBTASK 35-00-00-020-002

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

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

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

(b) Get access to the tube or hose assembly fittings.

(c) Remove the support clamps on the tubing you will remove.

(d) Loosen the adjacent tubing assemblies and clamps if it is necessary.

(e) Remove the tubing or hose assembly from the airplane.

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

(f) To prevent contamination:

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

2) Install a Flareless Tube Cap, 1/2-20 Thread, STD-1130 or a Flareless Tube Plug, 1/2-20 Thread, STD-1131 in each port (TASK 35-00-00-420-801).

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

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

SUBTASK 35-00-00-900-001

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

SUBTASK 35-00-00-900-002

(5) Do these steps before you install the oxygen system tubing or hoses:

(a) Examine the tube or hose ends and fittings for damage:

1) Look for damage or contamination that can prevent a good seal during the installation.

2) Look for worn areas or dents on the tube.

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

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

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

4) Replace the tube if necessary.

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

(c) Do not apply lubrication during the installation.

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

SUBTASK 35-00-00-420-005

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

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

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

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

(b) Put the oxygen tubing or hose assembly in the correct location.

(c) Keep the tube clamps loose to let you align the tube in the fitting.

(d) Turn the tube by hand to align the tube end and the fitting.

(e) Make sure the tube end touches the bottom of the fitting.

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

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

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

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

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

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

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

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

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

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

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

Tube Dash No. Aluminum Tubes	Tube Size Inches	Torque Pound-Inches ±5% (Newton-Meters)
-05	5/16	140 (15.8)
-06	3/8	170 (19.2)
-08	1/2	280 (31.6)
-10	5/8	360 (40.7)
-12	3/4	450 (50.8)
-16	1	750 (84.7)

SUBTASK 35-00-00-420-006

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

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

1) Hand tighten until a clear increase in torque occurs, then tighten 1/6 to 1/3 turn more.

2) Tighten the flareless fittings with the BACS13AP sleeves two times (tighten, loosen, and tighten again).

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

SUBTASK 35-00-00-410-001

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

(8) Tighten all of the tube clamps.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

G. Removal and Installation of Pipe Threaded Fittings

SUBTASK 35-00-00-840-003

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

SUBTASK 35-00-00-020-001

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

SUBTASK 35-00-00-420-008

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

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

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

SUBTASK 35-00-00-420-009

(4) Do these steps to apply teflon Nitto P-412 tape, G50310, to the pipe threaded fitting ends:

(a) Put the edge of the Nitto P-412 tape, G50310 on the fitting.

(b) Make sure a minimum of 1-1/2 threads to a maximum of 2-1/2 threads remain uncovered at the start of the fitting.

(c) Pull the Nitto P-412 tape, G50310 around the threads to follow the thread contour.

(d) Apply 1-1/2 turns of Nitto P-412 tape, G50310on fittings up to 1.5 in. (38.1 mm) in diameter.

(e) Apply 2 to 4 turns of Nitto P-412 tape, G50310 on fittings up to 1.5 in. (38.1 mm) in diameter and larger.

(f) Use narrow Nitto P-412 tape, G50310 (0.25 in. (6.4 mm) wide) when necessary, to make sure the tape does not cover threaded fitting end.

SUBTASK 35-00-00-420-010

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

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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

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

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

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

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

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

2) For pipe threaded fittings made of CRES to CRES material combinations use the torque values in (Table 204)

(d) Do not back off pipe threaded fittings.

(e) Use the maximum torque in (Table 203) or (Table 204) if there is a leak or for alignment.

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

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

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

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

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

OXYGEN - SERVICING

1. General

A. This procedure contains these tasks:

(1) Servicing of the Crew Oxygen System

(2) Servicing of the Passenger Oxygen System

(3) Servicing of the Portable Oxygen System.

TASK 35-00-00-600-801

2. Servicing of the Crew Oxygen System

A. References

Reference	Title
12-15-21-600-801	Crew Oxygen Cylinder Replacement (P/B 301)
12-15-21-600-803-002	Crew Oxygen Cylinder Replacement (P/B 301)
12-15-21-610-801-002	Remote Fill Panel Servicing (P/B 301)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)

B. Location Zones

Zone	Area
122	Forward Cargo Compartment - Right

C. Crew Oxygen System Servicing

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-442, 445-447, 451-999

SUBTASK 35-00-00-910-001

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

SUBTASK 35-00-00-610-001

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

LOM 443, 444, 450

SUBTASK 35-00-00-610-005

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

(a) To service the crew oxygen system by way of the remote fill panel, do this task: Remote Fill Panel Servicing, TASK 12-15-21-610-801-002.

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

LOM ALL

END OF TASK

TASK 35-00-00-600-802

3. Servicing of the Passenger Oxygen System

A. References

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

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(Continued)

Reference	Title
35-22-11-000-804-001	PSU Oxygen Generator Removal (P/B 401)
35-22-11-000-805-001	ASU Oxygen Generator Removal (P/B 401)
35-22-11-000-806-001	LSU Oxygen Generator Removal (P/B 401)
35-22-11-400-804-001	PSU Oxygen Generator Installation (P/B 401)
35-22-11-400-805-001	ASU Oxygen Generator Installation (P/B 401)
35-22-11-400-806-001	LSU Oxygen Generator Installation (P/B 401)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Procedure

SUBTASK 35-00-00-910-002

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

SUBTASK 35-00-00-610-002

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

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

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

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

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

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

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

LOM 411, 412, 415, 420, 423, 424, 426-431, 437-439, 441, 443, 444; LOM 402, 406, 407 PRE SB 737-35-1146

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

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

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

LOM ALL

——— END OF TASK ———

TASK 35-00-00-600-803

4. Portable Oxygen System Servicing

A. References

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

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

ECCN 9E991 BOEING PROPRIETARY - See title page for details

C. Procedure

SUBTASK 35-00-00-010-001

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

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-442, 445-447, 451-999

SUBTASK 35-00-00-960-001

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

LOM ALL

SUBTASK 35-00-00-410-002

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

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

OXYGEN - CLEANING/PAINTING

1. General

A. This procedure contains this task:

(1) Clean the Oxygen System Components.

TASK 35-00-00-100-801

2. Clean the Oxygen System Components

A. General

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

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

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

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

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

B. References

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

C. Tools/Equipment

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

D. Consumable Materials

Reference	Description	Specification
G00018	Nitrogen - Gaseous, Pressurizing, 99.5 Percent Pure	A-A-59503 Type I Grade B, MIL-PRF-27401 Type I Grade A
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	AMS3819 Class 1 Grade A or B Form 1 (Supersede BMS15-5 CL A)
G00624	Bag - Plastic, General Purpose	

E. Location Zones

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

F. The Oxygen System Components Cleaning

SUBTASK 35-00-00-910-003

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

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SUBTASK 35-00-00-140-001

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

(a) Rub the component(s) with a clean, dry, cotton wiper, G00034.

SUBTASK 35-00-00-140-002

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

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

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

SUBTASK 35-00-00-160-001

(4) Do these steps to clean the oxygen subassembly component(s):

(a) Disassemble or remove the oxygen component(s) from the airplane.

(b) Use the instructions in the manufacturers overhaul manual to clean the component(s).

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

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

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

1) nitrogen, G00018.

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

2) Clean, dry air with these specifications:

a) Hydrocarbon contamination - maximum allowable - 3 parts per million by weight as carbon or 7 parts per million as CH4.

b) Particulate contamination - maximum allowable - No particles or fiber greater than 100 micron in the longest dimension per cubic foot of air.

c) Moisture contamination - maximum allowable - 0.00002 grams (water vapor per liter of air at 70°F (21°C), 760 mm Hg, which is equivalent to a dew point of -63.6°F (-53.1°C) at 760 mm Hg).

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SUBTASK 35-00-00-530-001

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

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

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

(b) Immediately install an approved, clean, Flareless Tube Cap, 1/2-20 Thread, STD-1130, or Flareless Tube Plug, 1/2-20 Thread, STD-1131, on all oxygen system components, tubes and fittings (TASK 35-00-00-420-801).

NOTE: Flareless Tube Cap, 1/2-20 Thread, STD-1130, or a Flareless Tube Plug, 1/2-20 Thread, STD-1131, are not necessary for BAC, NAS, AN or MS standard fittings.

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

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

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

OXYGEN - DDG MAINTENANCE PROCEDURES

1. **General**

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

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

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

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

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

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

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

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

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

(7) MMEL 35-03-01 (DDPG) Preparation - Flight Deck Oxygen Indicator Inoperative

(8) MMEL 35-03-01 (DDPG) Restoration - Flight Deck Oxygen Indicator Inoperative

LOM 443, 444, 450

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

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

LOM ALL

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

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

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

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

LOM 443, 444, 450

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

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

LOM ALL

TASK 35-00-00-040-801

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

A. General

(1) This task gives the maintenance steps which prepare the airplane for flight with the Passenger Service Unit (PSU), Lavatory Service Unit (LSU), or Attendant Service Unit (ASU) inoperative.

B. Consumable Materials

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

ECCN 9E991 BOEING PROPRIETARY - See title page for details

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Passenger Service Unit Deactivation

SUBTASK 35-00-00-040-002

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

(a) Go to the applicable PSU, or ASU.

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

(c) Use the masking tape, G02311, or an equivalent tape to keep the inoperative PSU or ASU oxygen mask door closed.

SUBTASK 35-00-00-040-006

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

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

1) NOT TO BE OCCUPIED

——— END OF TASK ———

TASK 35-00-00-440-801

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

A. General

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

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Passenger Service Unit(s) Restoration

SUBTASK 35-00-00-810-004

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

(a) Remove the tape or rope used to keep the passengers from the seats.

SUBTASK 35-00-00-810-005

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

SUBTASK 35-00-00-440-002

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

——— END OF TASK ———

TASK 35-00-00-040-803

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

A. General

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

ECCN 9E991 BOEING PROPRIETARY - See title page for details

B. References

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

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Automatic Deploy System Deactivation

SUBTASK 35-00-00-710-001

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

- (Passenger Oxygen System - Manual Deploy Operational Test, TASK 35-22-00-700-802 or Reference Not Currently Available)

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

SUBTASK 35-00-00-480-001

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

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

(a) PASS OXY - AUTO MODE INOP

——— END OF TASK ———

TASK 35-00-00-440-811

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

A. General

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

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Automatic Deploy System Restoration

SUBTASK 35-00-00-810-012

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

SUBTASK 35-00-00-080-001

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

(a) PASS OXY - AUTO MODE INOP

——— END OF TASK ———

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 35-00-00-040-804

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

A. General

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

(2) The Passenger Service Unit (PSU) reference used in this task may refer to the PSU, the Attendant Service Unit (ASU) or the Lavatory Service Unit (LSU).

B. References

Reference	Title
35-22-11-000-804-001	PSU Oxygen Generator Removal (P/B 401)
35-22-11-000-805-001	ASU Oxygen Generator Removal (P/B 401)
35-22-11-000-806-001	LSU Oxygen Generator Removal (P/B 401)
35-22-11-400-804-001	PSU Oxygen Generator Installation (P/B 401)
35-22-11-400-805-001	ASU Oxygen Generator Installation (P/B 401)
35-22-11-400-806-001	LSU Oxygen Generator Installation (P/B 401)
35-22-31-000-803-001	PSU Oxygen Mask Packing (P/B 201)
35-22-31-000-804-001	ASU and LSU Oxygen Mask Packing (P/B 201)
35-22-31-440-801	PSU Oxygen Mask Packing (P/B 201)

C. Consumable Materials

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

D. Location Zones

Zone	Area
200	Upper Half of Fuselage

E. Door Latch(es) (Unlatched) Deactivation

SUBTASK 35-00-00-720-002

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

(a) Go to the applicable PSU.

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

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

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

1) PSU Oxygen Generator Removal, TASK 35-22-11-000-804-001 or ASU Oxygen Generator Removal, TASK 35-22-11-000-805-001 or LSU Oxygen Generator Removal, TASK 35-22-11-000-806-001

2) PSU Oxygen Generator Installation, TASK 35-22-11-400-804-001 or ASU Oxygen Generator Installation, TASK 35-22-11-400-805-001 or LSU Oxygen Generator Installation, TASK 35-22-11-400-806-001

SUBTASK 35-00-00-840-004

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

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

ECCN 9E991 BOEING PROPRIETARY - See title page for details

PSU Oxygen Mask Packing, TASK 35-22-31-440-801 or PSU Oxygen Mask Packing, TASK 35-22-31-000-803-001 or ASU and LSU Oxygen Mask Packing, TASK 35-22-31-000-804-001

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

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

(d) Close the PSU.

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

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

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

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

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

——— END OF TASK ———

TASK 35-00-00-440-812

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

A. General

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

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Door Latch(es) Restoration

SUBTASK 35-00-00-020-004

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

SUBTASK 35-00-00-810-013

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

——— END OF TASK ———

TASK 35-00-00-440-802

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

A. General

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

B. Location Zones

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

ECCN 9E991 BOEING PROPRIETARY - See title page for details

C. Oxygen Pressure Indicator Deactivation

SUBTASK 35-00-00-040-003

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

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

SUBTASK 35-00-00-860-001

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

(a) Go into the forward cargo compartment.

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

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

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

1) See the Boeing Flight Crew Operations Manual, Performance Dispatch section, for minimum dispatch bottle pressure.

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

(f) Install the bottom cargo compartment panel.

END OF TASK

TASK 35-00-00-440-803

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

A. General

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

B. Location Zones

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

C. Oxygen Pressure Indicator Restoration

SUBTASK 35-00-00-810-006

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

SUBTASK 35-00-00-440-003

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

END OF TASK

LOM 443, 444, 450

TASK 35-00-00-200-801

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

A. General

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

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 443, 444, 450 (Continued)

B. Location Zones

Zone	Area
100	Lower Half of Fuselage

C. Prepare for Deactivation

SUBTASK 35-00-00-200-003

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

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

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

——— END OF TASK ———

TASK 35-00-00-440-809

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

A. Oxygen Pressure Indicator Restoration

SUBTASK 35-00-00-440-005

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

SUBTASK 35-00-00-440-007

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

LOM ALL

——— END OF TASK ———

TASK 35-00-00-440-804

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

A. General

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

B. References

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

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Portable Oxygen Deactivation

SUBTASK 35-00-00-040-004

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

SUBTASK 35-00-00-960-003

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

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 35-00-00-960-004

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

SUBTASK 35-00-00-610-003

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

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

SUBTASK 35-00-00-200-005

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

——— END OF TASK ———

TASK 35-00-00-440-805

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

A. General

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

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Portable Oxygen Restoration

SUBTASK 35-00-00-810-007

(1) Fully service the portable oxygen cylinders.

SUBTASK 35-00-00-810-008

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

SUBTASK 35-00-00-610-006

(3) Restore the portable oxygen cylinder locator placard.

——— END OF TASK ———

TASK 35-00-00-440-806

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

A. General

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

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

ECCN 9E991 BOEING PROPRIETARY - See title page for details

C. Passenger Oxygen System Deactivation

SUBTASK 35-00-00-960-005

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

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

——— END OF TASK ———

TASK 35-00-00-440-807

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

A. General

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

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Passenger Oxygen System Restoration

SUBTASK 35-00-00-810-009

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

SUBTASK 35-00-00-810-010

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

——— END OF TASK ———

LOM 443, 444, 450

TASK 35-00-00-040-802

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

A. General

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

B. Location Zones

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

C. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 443, 444, 450 (Continued)

D. Prepare for Deactivation

SUBTASK 35-00-00-010-002

(1) Open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 35-00-00-210-004

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

SUBTASK 35-00-00-210-005

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

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

SUBTASK 35-00-00-210-006

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

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

SUBTASK 35-00-00-210-007

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

SUBTASK 35-00-00-410-003

(6) Close this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

——— END OF TASK ———

TASK 35-00-00-440-808

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

A. General

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

B. Location Zones

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

C. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 443, 444, 450 (Continued)

D. External Service Panel, Oxygen Fill Station Activation

SUBTASK 35-00-00-010-003

(1) Open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 35-00-00-200-001

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

SUBTASK 35-00-00-410-004

(3) Close this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

CREW OXYGEN SYSTEM - MAINTENANCE PRACTICES

1. General

A. This procedure contains these tasks:

(1) Bleeding the Crew Oxygen System Prior to System Maintenance or Repair.

(2) Leak Test the Crew Oxygen System After System Maintenance or Repair.

(3) Crew Oxygen System - Deactivation.

(4) Crew Oxygen System - Activation.

TASK 35-12-00-800-801

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

(Figure 201, Figure 202)

A. References

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

B. Location Zones

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

C. Prepare to Bleed the Crew Oxygen System

SUBTASK 35-12-00-910-004

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

SUBTASK 35-12-00-860-008

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

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

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

(b) Remove the lockwire from the shutoff valve.

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

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

LOM 426, 429-431

D. Bleed the Crew Oxygen System (With B/E Aerospace Masks)

SUBTASK 35-12-00-870-002

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

(a) Go to one of the crew's oxygen stowage box.

(b) Turn the REGULATOR control knob to the EMER position.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 426, 429-431 (Continued)

(c) Push and hold the TEST/RESET BUTTON on the stowage box to the TEST/RESET position.

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

(e) Make sure that the flow indicator comes on and stays on.

NOTE: With the regulator in the EMER mode, the flow indicator will stay on until the TEST/RESET BUTTON is released or you turn off the EMER mode.

(f) After the flow of oxygen stops:

NOTE: The flow indicator will not be in view.

(g) Release the TEST/RESET BUTTON.

CAUTION DO NOT KEEP THE REGULATOR CONTROL KNOB IN THE "EMER" POSITION FOR AN EXTENDED TIME. IT CAN DRAIN ALL OF THE OXYGEN SUPPLY FROM THE CREW OXYGEN CYLINDER.

(h) Turn the REGULATOR control knob back to the initial position (NORM or 100%) specified by flight operations.

SUBTASK 35-12-00-860-020

(2) Do the applicable maintenance.

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-425, 427, 428, 432-434, 437-447, 450-999

E. Bleed the Crew Oxygen System (EROS MF10/MF20 and ORONASAL MC10 MASKS)

SUBTASK 35-12-00-870-001

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

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

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

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

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

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

SUBTASK 35-12-00-860-009

(2) Do the applicable maintenance.

LOM ALL

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

FORWARD CARGO COMPARTMENT

A

G19510 S0006577407_V2

Crew Oxygen Cylinder - Bleed System
Figure 201/35-12-00-990-802 (Sheet 1 of 3)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

CREW OXYGEN CYLINDER
(EXAMPLE)

B

G19515 S0006577408_V2

Crew Oxygen Cylinder - Bleed System
Figure 201/35-12-00-990-802 (Sheet 2 of 3)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

CREW OXYGEN CYLINDER
(EXAMPLE)

B

G87467 S0006577409_V2

Crew Oxygen Cylinder - Bleed System
Figure 201/35-12-00-990-802 (Sheet 3 of 3)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

FLIGHT COMPARTMENT

CAPTAIN'S MASK STOWAGE BOX

A

MASK REGULATOR

B

G74669 S0006577411_V3

Mask Stowage Box - Bleed System
Figure 202/35-12-00-990-803 (Sheet 1 of 3)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

FLIGHT COMPARTMENT

CAPTAIN'S MASK STOWAGE BOX

A

MASK REGULATOR

B

G19538 S0006577412_V3

Mask Stowage Box - Bleed System
Figure 202/35-12-00-990-803 (Sheet 2 of 3)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

FLIGHT COMPARTMENT

CREW OXYGEN MASK STOWAGE BOX

A

MASK/REGULATOR

B

H96126 S0006577414_V3

Mask Stowage Box - Bleed System
Figure 202/35-12-00-990-803 (Sheet 3 of 3)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 35-12-00-800-802

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

(Figure 201)

A. References

Reference	Title
20-10-44-400-801	Lockwire, Cotter Pins, and Lockrings - Installation (P/B 401)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-12-00-710-801	Crew Oxygen Pressure Indication Operational Test (P/B 501)
35-12-00-710-802	Crew Oxygen System Pressure Decay Leak Check (P/B 601)

B. Consumable Materials

Reference	Description	Specification
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	AMS3819 Class 1 Grade A or B Form 1 (Supersede BMS15-5 CL A)
G01912	Lockwire - MS20995NC32, Monel - 0.032 Inch (0.8128 mm) Diameter	NASM20995
G02479	Lockwire - MS20995CY20, Copper - 0.020 Inch (0.508 mm) Diameter	NASM20995
G50306	Compound - Leak Detection, Oxygen System	MIL-PRF-25567 (BAC5402)

C. Location Zones

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

D. Crew Oxygen Cylinder Pressurization

SUBTASK 35-12-00-910-005

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

SUBTASK 35-12-00-940-001

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

(a) Go to the crew oxygen system cylinder (View A, Figure 201).

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

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

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

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

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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

(e) Do the steps from the Crew Oxygen Cylinder - Leak Detection section.

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

E. Crew Oxygen Cylinder - Leak Detection

SUBTASK 35-12-00-790-001

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

SUBTASK 35-12-00-790-002

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

SUBTASK 35-12-00-790-003

(3) Do a check for leaks at all applicable connections (look for bubbles in the leak detection compound, G50306).

SUBTASK 35-12-00-790-004

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

SUBTASK 35-12-00-790-005

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

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

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

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

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

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

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

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

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

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

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

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

SUBTASK 35-12-00-420-002

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

ECCN 9E991 BOEING PROPRIETARY - See title page for details

F. Lockwire the Shutoff Valve on the Crew Oxygen Cylinder

SUBTASK 35-12-00-420-003

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

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

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

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

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

(c) Use MS20995NC32 lockwire, G01912, or MS20995CY20 lockwire, G02479, to hold the shutoff valve in the open position.

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

2) Use the double-twist method.

SUBTASK 35-12-00-210-022

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-425, 427, 428, 432-434, 437-447, 450-999

G. System Operational Check (WITH EROS MF10/MF20 and ORONASAL MC10 MASKS)

SUBTASK 35-12-00-010-005

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

SUBTASK 35-12-00-710-100

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

(a) Make sure that the flow indicator of the oxygen stowage box shows a yellow flow indication.

(b) Make sure that you hear the release of gas.

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

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

SUBTASK 35-12-00-710-101

(3) Continue to hold the TEST/RESET LEVER of the mask stowage box to the TEST/RESET position.

(a) Push and hold the EMERGENCY OXYGEN SELECTOR KNOB of the mask regulator for 5 second.

(b) Make sure that the FLOW INDICATOR of the oxygen stowage box shows a yellow flow indication.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(c) Make sure that the oxygen pressure indicator of the P5-14 panel does not decrease more than 100 psig (689 kPa).

NOTE: If the pressure decreases more than 100 psig (689 kPa), or it comes up slowly, then the supply is not sufficient.

1) If the pressure decreases more than 100 psig (689 kPa), or, if it comes up slowly, do these steps:

a) Make sure that the crew oxygen cylinder valve is fully open.

b) Do the steps again.

c) If the condition continues, do this task: Crew Oxygen System Pressure Decay Leak Check, TASK 35-12-00-710-802.

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

(e) Release the EMERGENCY OXYGEN SELECTOR KNOB.

1) Make sure that the flow indicator of the stowage box shows a zero flow indication (black).

(f) Release the TEST/RESET LEVER of the mask stowage box.

1) Make sure that the TEST/RESET LEVER goes to its usual position.

SUBTASK 35-12-00-710-102

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

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

(a) Momentarily push the EMERGENCY OXYGEN SELECTOR KNOB of the mask regulator.

1) Make sure that the FLOW INDICATOR of the oxygen stowage box shows a yellow flow indication.

SUBTASK 35-12-00-860-035

(5) Make sure that the DILUTION CONTROL LEVER is set to 100% oxygen.

SUBTASK 35-12-00-410-013

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

(a) Make sure that the OXYGEN ON FLAG of the stowage box shows.

SUBTASK 35-12-00-440-002

(7) Push the TEST/RESET LEVER again to reset the shutoff valve of the mask stowage box.

(a) Make sure that the OXYGEN ON FLAG of the stowage box does not show.

SUBTASK 35-12-00-700-001

(8) If it is necessary, do the test again for the other crew oxygen masks.

LOM 426, 429-431

H. System Operational Check (WITH B/E AEROSPACE MASKS)

SUBTASK 35-12-00-010-007

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

SUBTASK 35-12-00-710-106

(2) Push and hold the TEST/RESET BUTTON of the mask stowage box for 5 seconds.

(a) At the same time, turn the DILUTION CONTROL KNOB of the mask REGULATOR to the EMER mode.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 426, 429-431 (Continued)

(b) Make sure that the FLOW INDICATOR shows the yellow starburst symbol in the indicator window.

(c) Make sure that the OXYGEN ON FLAG in the door of the stowage box shows ON.

(d) Make sure that you hear the flow of oxygen.

(e) Make sure that the pressure on the oxygen pressure indicator of the P5-14 panel does not decrease more than 100 psig (689 kPa).

NOTE: If the pressure decreases more than 100 psig (689 kPa), or it comes up slowly, then the supply is not sufficient.

1) If the pressure decreases more than 100 psig (689 kPa), or if it comes up slowly, do these steps:

a) Make sure that the crew oxygen cylinder valve is fully open.

b) Do the steps again.

c) If the condition continues, do this task: Crew Oxygen System Pressure Decay Leak Check, TASK 35-12-00-710-802.

SUBTASK 35-12-00-710-107

(3) Open the two doors of the mask stowage box and then close the two doors.

(a) Push the TEST/RESET BUTTON again.

NOTE: This sets the shutoff valve of the mask stowage box to closed.

1) Make sure that the FLOW INDICATOR does not show the yellow starburst.

2) Make sure that the OXYGEN ON FLAG of the door does not show.

SUBTASK 35-12-00-860-037

(4) Turn the DILUTION CONTROL KNOB to the 100% Oxygen Position.

SUBTASK 35-12-00-700-003

(5) If it is necessary, do the test again for the other crew oxygen masks.

LOM ALL

I. Put the Airplane Back to Its Usual Condition

SUBTASK 35-12-00-710-032

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

SUBTASK 35-12-00-410-002

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

END OF TASK

TASK 35-12-00-040-801

4. Crew Oxygen System - Deactivation

(Figure 203)

A. General

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

B. Location Zones

Zone	Area
122	Forward Cargo Compartment - Right

ECCN 9E991 BOEING PROPRIETARY - See title page for details

C. Crew Oxygen System - Deactivation

SUBTASK 35-12-00-870-003

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

SUBTASK 35-12-00-860-029

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND

D. Tryout

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

SUBTASK 35-12-00-860-030

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND

SUBTASK 35-12-00-860-031

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

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

FORWARD CARGO COMPARTMENT

A

G19510 S0006577407_V2

Crew Oxygen Cylinder
Figure 203/35-12-00-990-817 (Sheet 1 of 3)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

CREW OXYGEN CYLINDER
(EXAMPLE)

B

G19515 S0006577408_V2

Crew Oxygen Cylinder
Figure 203/35-12-00-990-817 (Sheet 2 of 3)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

CREW OXYGEN CYLINDER
(EXAMPLE)

B

G87467 S0006577409_V2

Crew Oxygen Cylinder
Figure 203/35-12-00-990-817 (Sheet 3 of 3)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 35-12-00-440-801

5. Crew Oxygen System - Activation

(Figure 203)

A. General

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

B. Location Zones

Zone	Area
122	Forward Cargo Compartment - Right

C. Crew Oxygen System - Activation

SUBTASK 35-12-00-860-032

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

SUBTASK 35-12-00-860-033

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

CREW OXYGEN SYSTEM - ADJUSTMENT/TEST

1. General

A. This procedure has these tasks:

(1) Crew Oxygen Stowage Box Test (Mask Stowed in Stowage Box)

(2) Crew Oxygen Mask-Regulator Test

(3) Crew Oxygen Pressure Indication Operational Test.

TASK 35-12-00-700-801

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

(Figure 501 or Figure 502 or Figure 503)

A. General

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

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

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

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

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

B. References

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

C. Location Zones

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

D. Prepare for the Test

SUBTASK 35-12-00-910-001

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

SUBTASK 35-12-00-840-001

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

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

SUBTASK 35-12-00-840-002

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

SUBTASK 35-12-00-840-003

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

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 426, 429-431

E. Mask Stowage Box Operational Test (WITH B/E AEROSPACE MASKS)

SUBTASK 35-12-00-710-055

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

SUBTASK 35-12-00-210-013

(2) Make sure that the DILUTION CONTROL KNOB is set to NORM or 100%.

SUBTASK 35-12-00-710-056

(3) Push and hold the TEST/RESET BUTTON on the right stowage box door.

NOTE: The mask regulator is pressurized from an unpressurized state when the TEST/RESET BUTTON is pushed.

SUBTASK 35-12-00-710-057

(4) Make sure that you can hear the flow of oxygen for a short time.

SUBTASK 35-12-00-710-058

(5) Make sure that the "OXY ON" flag indicator is shown.

SUBTASK 35-12-00-210-014

(6) Make sure that the FLOW INDICATOR on the left stowage box door comes on for a short time.

NOTE: When the mask is fully pressurized, the flow indicator will go away to indicate that the oxygen system is functional and leak free.

SUBTASK 35-12-00-860-021

(7) Release the TEST/RESET BUTTON.

NOTE: You should also hear a drain of oxygen from the mask regulator.

SUBTASK 35-12-00-710-059

(8) Make sure that the "OXY ON" flag indicator goes away.

SUBTASK 35-12-00-860-022

(9) Turn the DILUTION CONTROL KNOB to the EMER position.

SUBTASK 35-12-00-710-060

(10) Push and hold the TEST/RESET BUTTON on the right stowage box door.

NOTE: The mask regulator is pressurized from an unpressurized state when the TEST/RESET BUTTON is pushed.

SUBTASK 35-12-00-710-061

(11) Make sure that you can hear the flow of oxygen continuously.

SUBTASK 35-12-00-710-062

(12) Make sure that the "OXY ON" flag indicator is shown.

SUBTASK 35-12-00-210-015

(13) Make sure that the FLOW INDICATOR comes on and stays on.

NOTE: With the regulator in the EMER mode, the FLOW INDICATOR will stay on until the TEST/RESET BUTTON is released and/or the EMER mode is turned off. This is an indication that there is continuous flow of oxygen through the regulator.

SUBTASK 35-12-00-860-023

(14) Release the TEST/RESET BUTTON.

SUBTASK 35-12-00-860-024

(15) Make sure that the flow indicator goes away.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 426, 429-431 (Continued)

SUBTASK 35-12-00-710-063

(16) Make sure that the "OXY ON" flag indicator goes away.

SUBTASK 35-12-00-860-025

> **CAUTION**
> DO NOT KEEP THE REGULATOR CONTROL KNOB IN THE "EMER" POSITION FOR AN EXTENDED TIME. IT CAN DRAIN ALL OF THE OXYGEN SUPPLY FROM THE CREW OXYGEN CYLINDER.

(17) Turn the DILUTION CONTROL KNOB back to the original position (NORM or 100%) as required by flight operations.

SUBTASK 35-12-00-710-064

(18) Repeat this test for the other crew member's mask stowage box, if it is necessary.

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-425, 427, 428, 432-434, 437-447, 450-999

F. Mask Stowage Box Operational Test (EROS MF10/MF20 and ORONASAL MC10 MASKS)

SUBTASK 35-12-00-710-001

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

SUBTASK 35-12-00-710-002

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

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

SUBTASK 35-12-00-710-003

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

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

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

SUBTASK 35-12-00-710-004

(4) Momentarily push the EMERGENCY OXYGEN SELECTOR KNOB.

SUBTASK 35-12-00-710-005

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

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

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

SUBTASK 35-12-00-710-006

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

SUBTASK 35-12-00-710-007

(7) Release the TEST/RESET LEVER.

SUBTASK 35-12-00-710-008

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

SUBTASK 35-12-00-710-009

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

NOTE: This step will open the shutoff valve.

SUBTASK 35-12-00-710-010

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

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 35-12-00-710-011

(11) Momentarily push the EMERGENCY OXYGEN SELECTOR KNOB.

SUBTASK 35-12-00-710-012

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

SUBTASK 35-12-00-710-014

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

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

SUBTASK 35-12-00-710-015

(14) Push the TEST/RESET LEVER to the TEST/RESET position, to set the shutoff valve again.

(a) Make sure that the “OXY ON” flag, on the left door of the stowage box, does not show.

SUBTASK 35-12-00-710-016

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

LOM ALL

——— END OF TASK ———

ECCN 9E991 BOEING PROPRIETARY - See title page for details

FLIGHT COMPARTMENT

MASK STOWAGE BOX

A

W15558 S0006577436_V4

Flight Crew Oxygen Stowage Box, Mask/Regulator Test
Figure 501/35-12-00-990-814 (Sheet 1 of 6)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

FLIGHT COMPARTMENT

MASK STOWAGE BOX

A

W15556 S0006577437_V3

Flight Crew Oxygen Stowage Box, Mask/Regulator Test
Figure 501/35-12-00-990-814 (Sheet 2 of 6)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

FLIGHT COMPARTMENT

MASK STOWAGE BOX

A

W15563 S0006577438_V3

Flight Crew Oxygen Stowage Box, Mask/Regulator Test
Figure 501/35-12-00-990-814 (Sheet 3 of 6)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

OXYGEN MASK

B

MASK REGULATOR

C

W15713 S0006577439_V5

Flight Crew Oxygen Stowage Box, Mask/Regulator Test
Figure 501/35-12-00-990-814 (Sheet 4 of 6)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

W15722 S0006577440_V4

Flight Crew Oxygen Stowage Box, Mask/Regulator Test
Figure 501/35-12-00-990-814 (Sheet 5 of 6)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

OXYGEN MASK

B

W15723 S0006577441_V2

Flight Crew Oxygen Stowage Box, Mask/Regulator Test
Figure 501/35-12-00-990-814 (Sheet 6 of 6)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

FLIGHT COMPARTMENT
(EXAMPLE)

W15745 S0006577442_V5

First Observer Oxygen Stowage Box, Mask/Regulator Test
Figure 502/35-12-00-990-815 (Sheet 1 of 7)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

FLIGHT COMPARTMENT
(EXAMPLE)

MASK STOWAGE BOX

A

W15747 S0006577443_V4

First Observer Oxygen Stowage Box, Mask/Regulator Test
Figure 502/35-12-00-990-815 (Sheet 2 of 7)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

W15756 S0006577444_V3

First Observer Oxygen Stowage Box, Mask/Regulator Test
Figure 502/35-12-00-990-815 (Sheet 3 of 7)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

MASK STOWAGE BOX

A

W15758 S0006577445_V3

First Observer Oxygen Stowage Box, Mask/Regulator Test
Figure 502/35-12-00-990-815 (Sheet 4 of 7)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

W15759 S0006577446_V5

First Observer Oxygen Stowage Box, Mask/Regulator Test
Figure 502/35-12-00-990-815 (Sheet 5 of 7)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

W15760 S0006577447_V4

First Observer Oxygen Stowage Box, Mask/Regulator Test
Figure 502/35-12-00-990-815 (Sheet 6 of 7)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

OXYGEN MASK

B

W15761 S0006577448_V2

First Observer Oxygen Stowage Box, Mask/Regulator Test
Figure 502/35-12-00-990-815 (Sheet 7 of 7)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

FLIGHT COMPARTMENT

MASK STOWAGE BOX

A

W15781 S0006577449_V3

Second Observer Oxygen Stowage Box, Mask/Regulator Test
Figure 503/35-12-00-990-813 (Sheet 1 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

FLIGHT COMPARTMENT
(EXAMPLE)

MASK STOWAGE BOX
A 1

1 IF INSTALLED

W16213 S0006577451_V3

Second Observer Oxygen Stowage Box, Mask/Regulator Test
Figure 503/35-12-00-990-813 (Sheet 2 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

W16242 S0006577453_V3

Second Observer Oxygen Stowage Box, Mask/Regulator Test
Figure 503/35-12-00-990-813 (Sheet 3 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

OXYGEN MASK

B

MASK REGULATOR

C

W16244 S0006577454_V3

Second Observer Oxygen Stowage Box, Mask/Regulator Test
Figure 503/35-12-00-990-813 (Sheet 4 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 35-12-00-700-802

3. **Crew Oxygen Mask-Regulator Test**
(Figure 501 or Figure 502 or Figure 503)

NOTE: This procedure is a scheduled maintenance task.

A. General

(1) This test examines mask-regulator. The mask-regulator is removed from the mask stowage box or cup.

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

B. References

Reference	Title
23-51-00-710-801	Flight Interphone System - Operational Test (P/B 501)
35-00-00-910-802	Safety Precautions (P/B 201)
35-12-85-100-801	Crew Oxygen Mask Cleaning (P/B 701)
35-12-85-910-801	Crew Oxygen Mask Stowage (P/B 201)

C. Location Zones

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

D. Prepare for the Test

SUBTASK 35-12-00-910-002

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

SUBTASK 35-12-00-860-004

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND

F/O Electrical System Panel, P6-2

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

SUBTASK 35-12-00-840-004

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

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

SUBTASK 35-12-00-840-005

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

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 35-12-00-840-006

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

LOM 426, 429-431

E. Mask-Regulator Operational Test (B/E AEROSPACE MASKS)

SUBTASK 35-12-00-010-002

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

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

SUBTASK 35-12-00-710-066

(2) Hold the mask-regulator in your hand.

SUBTASK 35-12-00-710-067

(3) Hold the DILUTION CONTROL KNOB to remove the mask from the stowage box.

NOTE: When the stowage box doors are opened or the TEST/RESET BUTTON is pushed, the regulator is automatically pressurized.

SUBTASK 35-12-00-210-016

(4) Make sure that the "OXY ON" flag indicator comes on.

NOTE: The OXY ON flag is not visible with the doors open.

SUBTASK 35-12-00-710-068

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

SUBTASK 35-12-00-210-017

(6) Make sure that the FLOW INDICATOR comes on.

SUBTASK 35-12-00-710-144

(7) Do a test of the mask-regulator inflation.

(a) Make sure to set the demand regulator assembly in 100% mode.

(b) Hold the sides of the regulator and red harness inflation button with your thumb and middle finger.

(c) Push the red harness inflation button with your fingers.

1) Make sure that the harness inflates smoothly.

(d) Release the red harness inflation button.

1) Make sure that the harness deflates smoothly.

(e) Repeat the steps above in the NORMAL control mode.

SUBTASK 35-12-00-710-145

(8) Do a test of the mask-regulator breathing.

(a) Hold the mask-regulator to your face.

(b) Breathe the oxygen and remove the mask-regulator.

NOTE: Do not breathe into the mask.

(c) Make sure that the FLOW INDICATOR changes to yellow with each time that you breathe.

(d) Make sure that the mask-regulator operates correctly in each of the three control modes.

1) Make sure that the mask does not vibrate, too much.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 426, 429-431 (Continued)

2) Make sure that the FLOW INDICATOR changes to yellow each time that you breathe.

SUBTASK 35-12-00-710-074

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

SUBTASK 35-12-00-860-026

> **CAUTION**
> DO NOT KEEP THE REGULATOR CONTROL KNOB IN THE "EMER" POSITION FOR AN EXTENDED TIME. IT CAN DRAIN ALL OF THE OXYGEN SUPPLY FROM THE CREW OXYGEN CYLINDER.

(10) Turn the DILUTION CONTROL KNOB back to the 100% position.

SUBTASK 35-12-00-160-002

(11) Clean all of the remaining oil from the mask.

SUBTASK 35-12-00-100-001

(12) Clean the mask, do this task: Crew Oxygen Mask Cleaning, TASK 35-12-85-100-801.

SUBTASK 35-12-00-410-010

(13) Stow the mask, do this task: Crew Oxygen Mask Stowage, TASK 35-12-85-910-801.

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-425, 427, 428, 432-434, 437-447, 450-999

F. Mask-Regulator Operational Test (EROS MF10/MF20 and ORONASAL MC10 MASKS)

SUBTASK 35-12-00-010-001

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

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

SUBTASK 35-12-00-710-018

(2) Hold the mask-regulator, and push and hold the red HARNESS INFLATION LEVERS (View B, Figure 501 or Figure 502 or Figure 503).

SUBTASK 35-12-00-710-020

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

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

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

SUBTASK 35-12-00-710-021

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

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

SUBTASK 35-12-00-710-022

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

SUBTASK 35-12-00-710-023

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

NOTE: Stowage cups do not have a FLOW INDICATOR.

SUBTASK 35-12-00-710-024

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

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 35-12-00-710-025

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

SUBTASK 35-12-00-710-026

(9) Make sure that you can breathe correctly.

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

SUBTASK 35-12-00-710-027

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

SUBTASK 35-12-00-710-030

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

NOTE: Some masks do not have communication equipment installed.

SUBTASK 35-12-00-100-002

(12) Clean the mask, do this task: Crew Oxygen Mask Cleaning, TASK 35-12-85-100-801.

SUBTASK 35-12-00-410-001

(13) Stow the mask, do this task: Crew Oxygen Mask Stowage, TASK 35-12-85-910-801.

END OF TASK

LOM ALL

TASK 35-12-00-710-801

4. Crew Oxygen Pressure Indication Operational Test

(Figure 504)

NOTE: This procedure is a scheduled maintenance task.

A. General

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

B. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-12-00-710-802	Crew Oxygen System Pressure Decay Leak Check (P/B 601)

C. Location Zones

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

D. Prepare for the Test

SUBTASK 35-12-00-910-003

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

ECCN 9E991 BOEING PROPRIETARY - See title page for details

E. Pressure Indication Test

SUBTASK 35-12-00-860-006

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND

SUBTASK 35-12-00-010-009

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

SUBTASK 35-12-00-860-007

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

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

SUBTASK 35-12-00-710-031

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

(a) Compare the values of these pressure gages:

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

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

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

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-425, 427, 428, 432-434, 437-447, 450-999

SUBTASK 35-12-00-710-142

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

(a) Make sure that the flow indicator of the oxygen stowage box shows a yellow flow indication.

(b) Make sure that you hear the release of gas.

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

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

(d) Continue to hold the TEST/RESET LEVER of the mask stowage box to the TEST/RESET position.

1) Push and hold the EMERGENCY OXYGEN SELECTOR KNOB of the mask regulator for 5 seconds.

2) Make sure that the FLOW INDICATOR of the oxygen stowage box shows a yellow flow indication.

3) Make sure that the pressure on the pressure indicator, on the P5-14 panel, does not decrease more than 100 psig (689 kPa).

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

a) If the pressure decreases more than 100 psig (689 kPa) or if it increases slowly, do these steps:

<1> Make sure that the oxygen cylinder valve is fully open.

<2> Do the steps again.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

<3> If the condition continues, do this task: Crew Oxygen System Pressure Decay Leak Check, TASK 35-12-00-710-802.

4) Release the EMERGENCY OXYGEN SELECTOR KNOB.

a) Make sure that the flow indicator of the stowage box shows a zero flow indication (black).

5) Release the TEST/RESET LEVER of the mask stowage box.

a) Make sure that the TEST/RESET LEVER goes to its usual position.

LOM 426, 429-431

SUBTASK 35-12-00-710-137

(6) Push and hold the TEST/RESET BUTTON of the mask stowage box for 5 seconds.

(a) At the same time, turn the DILUTION CONTROL KNOB of the mask REGULATOR to the EMER mode.

(b) Make sure that the FLOW INDICATOR shows the yellow starburst symbol in the indicator window.

(c) Make sure that the oxygen on FLAG in the door of the stowage box shows ON.

(d) Make sure that you hear the flow of oxygen.

(e) Make sure that the pressure on the oxygen pressure indicator, on the P5-14 panel, does not decrease more than 100 psig (689 kPa).

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

1) If the pressure decreases more than 100 psig (689 kPa) or if it increases slowly, do these steps:

a) Make sure that the crew oxygen cylinder valve is fully open.

b) Do the steps again.

c) If the condition continues, do this task: Crew Oxygen System Pressure Decay Leak Check, TASK 35-12-00-710-802.

(f) Push the TEST/RESET BUTTON again.

NOTE: This sets the shutoff valve of the mask stowage box to closed.

1) Make sure that the FLOW INDICATOR does not show the yellow starburst.

2) Make sure that the oxygen on FLAG of the left door does not show.

(g) Turn the DILUTION CONTROL KNOB to the 100% oxygen position.

LOM ALL

F. Put the Airplane Back to Its Usual Condition

SUBTASK 35-12-00-410-018

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

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

FORWARD CARGO COMPARTMENT

A

G19852 S0006577460_V3

Crew Oxygen System Pressure Indication
Figure 504/35-12-00-990-816 (Sheet 1 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

CREW OXYGEN CYLINDER (EXAMPLE)

B

1993914 S0000388182_V2

Crew Oxygen System Pressure Indication
Figure 504/35-12-00-990-816 (Sheet 2 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

CREW OXYGEN CYLINDER (EXAMPLE)

B

1993915 S0000388183_V2

Crew Oxygen System Pressure Indication
Figure 504/35-12-00-990-816 (Sheet 3 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

FLIGHT COMPARTMENT

CREW OXYGEN PRESSURE INDICATOR

B

U62443 S0000207539_V2

Crew Oxygen System Pressure Indication
Figure 504/35-12-00-990-816 (Sheet 4 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

CREW OXYGEN SYSTEM - INSPECTION/CHECK

1. **General**

A. This procedure contains these task:

(1) Crew Oxygen Operational Leak Check

(2) Crew Oxygen System Leak Check.

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-442, 445-447, 451-999

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

LOM 443, 444, 450

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

LOM ALL

TASK 35-12-00-800-803

2. **Crew Oxygen Operational Leak Check**

(Figure 601)

A. References

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

B. Consumable Materials

Reference	Description	Specification
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	AMS3819 Class 1 Grade A or B Form 1 (Supersede BMS15-5 CL A)
G01912	Lockwire - MS20995NC32, Monel - 0.032 Inch (0.8128 mm) Diameter	NASM20995
G02479	Lockwire - MS20995CY20, Copper - 0.020 Inch (0.508 mm) Diameter	NASM20995
G50306	Compound - Leak Detection, Oxygen System	MIL-PRF-25567 (BAC5402)

C. Location Zones

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

D. Prepare for the Leak Check

SUBTASK 35-12-00-910-006

(1) To read and obey the safety precautions and general instructions for the oxygen system before

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

SUBTASK 35-12-00-940-002

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

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

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

(c) Go to the crew oxygen cylinder (View B).

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

(e) Make sure that the oxygen cylinder pressure indicator is between150 psig (1034 kPa) and 1900 psig (13,100 kPa).

E. Crew Oxygen System Leak Detection

SUBTASK 35-12-00-790-006

(1) To all disconnected connections, or connections that could have a leak, apply the leak detection compound, G50306.

SUBTASK 35-12-00-790-007

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

SUBTASK 35-12-00-790-008

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

SUBTASK 35-12-00-790-009

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

SUBTASK 35-12-00-790-010

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

CAUTION

YOU MUST MANUALLY CLOSE THE SHUTOFF VALVE WITH NO MORE THAN 25 IN-LB (2.8NM) OF TORQUE. IF YOU DO NOT OBEY, THIS CAN CAUSE DAMAGE TO THE SHUTOFF VALVE.

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

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

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

WARNING

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

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(WARNING PRECEDES)

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

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

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

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

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

NOTE: If the leak is not more than 5 cc/hour (approximately 3 bubbles in 2 minutes), it is not necessary to replace the component.

SUBTASK 35-12-00-420-004

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

F. Lockwire the Shutoff Valve on the Crew Oxygen Cylinder

SUBTASK 35-12-00-420-005

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

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

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

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

(c) Use MS20995NC32 lockwire, G01912, or MS20995CY20 lockwire, G02479, to hold the shutoff valve in the open position.

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

2) Use the double-twist method.

SUBTASK 35-12-00-710-033

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

SUBTASK 35-12-00-410-005

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

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

FORWARD CARGO COMPARTMENT

A

G19852 S0006577460_V3

Crew Oxygen Cylinder Inspection
Figure 601/35-12-00-990-804 (Sheet 1 of 3)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

CREW OXYGEN CYLINDER (EXAMPLE)

B

G19864 S0006577461_V4

Crew Oxygen Cylinder Inspection
Figure 601/35-12-00-990-804 (Sheet 2 of 3)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

CREW OXYGEN CYLINDER (EXAMPLE)

B

G87312 S0006577462_V3

Crew Oxygen Cylinder Inspection
Figure 601/35-12-00-990-804 (Sheet 3 of 3)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 35-12-00-710-802

3. Crew Oxygen System Pressure Decay Leak Check

(Figure 602, Figure 603, Figure 604)

A. General

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

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

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

B. References

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

C. Tools/Equipment

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

Reference	Description
SPL-1934	Equipment - Test, Pressure Leak, Crew Oxygen System Part #: C35001-37 Supplier: 81205 Opt Part #: C35001-1 Supplier: 81205

D. Consumable Materials

Reference	Description	Specification
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	AMS3819 Class 1 Grade A or B Form 1 (Supersede BMS15-5 CL A)
G00270	Tape - Scotch Flatback Masking 250	ASTM D6123 (Supersedes A-A-883)
G00472	Twine - Impregnated Fibrous, Lacing And Tying	MIL-T-713
G02438	Wrap - Tie - TY24M (TY-RAP)	
G50306	Compound - Leak Detection, Oxygen System	MIL-PRF-25567 (BAC5402)

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E. Location Zones

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

F. Prepare for the Leak Check

SUBTASK 35-12-00-910-007

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

SUBTASK 35-12-00-840-008

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

SUBTASK 35-12-00-840-009

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

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

(Figure 602)

SUBTASK 35-12-00-480-001

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

(1) Make sure that all of the components are specially cleaned for oxygen systems.

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

SUBTASK 35-12-00-860-010

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

SUBTASK 35-12-00-210-003

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

SUBTASK 35-12-00-480-002

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

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

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

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

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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

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

H. Pressure Check Equipment Set-up - Flight Compartment

(Figure 603)

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 423, 424, 432, 437-439, 441, 443, 444, 450-452, 458-460, 464, 465

NOTE: Also see Figure 605.

LOM ALL

SUBTASK 35-12-00-480-003

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

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

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

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

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

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

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

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

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

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 450-452, 458-460, 465

SUBTASK 35-12-00-860-027

(2) Do these steps to install the pressure test equipment, SPL-1934, at the first and second observers stowage boxes:

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

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

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

NOTE: Oxygen clean fittings come from a sealed container with a label for use on 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.

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

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

NOTE: Oxygen clean fittings come from a sealed container with a label for use on 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.

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

LOM 402, 406, 407, 420, 422, 425-431, 433, 434, 440, 442-447, 450-999

SUBTASK 35-12-00-860-054

(3) Do these steps to install the pressure test equipment, SPL-1934, at the first observers stowage box:

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

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 402, 406, 407, 420, 422, 425-431, 433, 434, 440, 442-447, 450-999 (Continued)

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

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

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

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

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

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

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

LOM 404, 411, 412, 415, 416, 423, 424, 432, 437-439, 441

SUBTASK 35-12-00-860-011

(4) Do these steps to install the pressure test equipment, SPL-1934, at the first observer's stowage cup:

(a) Remove the first observer's oxygen mask stowage panel.

1) Loosen the quarter-turn fasteners to remove the first observer's mask stowage panel.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 404, 411, 412, 415, 416, 423, 424, 432, 437-439, 441 (Continued)

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

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

NOTE: Oxygen clean fittings come from a sealed container with a label for use on 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.

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

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

NOTE: Oxygen clean fittings come from a sealed container with a label for use on 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.

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

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 423, 424, 432, 437-439, 441, 443, 444, 464

SUBTASK 35-12-00-860-053

(5) Do these steps to install the pressure test equipment, SPL-1934, at the second observer's stowage cup:

(a) Remove the the second observer's oxygen mask stowage panel.

1) Loosen the quarter-turn fasteners to remove the second observer's mask stowage panel.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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

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

NOTE: Oxygen clean fittings come from a sealed container with a label for use on 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.

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

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

NOTE: Oxygen clean fittings come from a sealed container with a label for use on 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.

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

LOM ALL

I. Crew Oxygen Pressure Leak Check

SUBTASK 35-12-00-710-034

CAUTION DO NOT APPLY MORE THAN 100 PSIG (689 KPA) PRESSURE TO THE OXYGEN SYSTEM. IF YOU APPLY MORE THAN 100 PSIG (689 KPA) PRESSURE, YOU CAN DAMAGE OXYGEN SYSTEM COMPONENTS.

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

SUBTASK 35-12-00-710-035

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

SUBTASK 35-12-00-710-036

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

SUBTASK 35-12-00-210-001

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

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 35-12-00-970-001

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

SUBTASK 35-12-00-360-002

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

SUBTASK 35-12-00-360-001

(7) If the leakage is more than 7.5 psig (51.7 kPa), repair the leak (Crew Oxygen Operational Leak Check, TASK 35-12-00-800-803).

(a) Use the leak detection compound, G50306, if it is necessary to help find the leak.

1) Remove used leak detection compound, G50306, with a clean lint free cotton wiper, G00034, immediately.

(b) Remove the pressure from the system and repair the leak.

(c) Pressurize the system and monitor for leakage again until you get a leakage of less than 7.5 psig (51.7 kPa).

SUBTASK 35-12-00-080-001

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

J. Test Equipment Removal - Flight Compartment

(Figure 603)

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 423, 424, 432, 437-439, 441, 443, 444, 450-452, 458-460, 464, 465

NOTE: (Figure 605)

LOM ALL

SUBTASK 35-12-00-080-002

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

SUBTASK 35-12-00-410-008

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

LOM 422, 425-431, 433, 434, 440, 442, 445-447, 453-457, 461-463, 466-999

SUBTASK 35-12-00-410-009

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

(a) Connect the oxygen hose to the fitting on the oxygen mask.

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

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

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

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

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 423, 424, 432, 437-439, 441, 443, 444, 450-452, 458-460, 464, 465

SUBTASK 35-12-00-410-025

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

(a) Connect the oxygen hose fitting on the oxygen mask.

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

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

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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

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

LOM ALL

K. Pressure Check Equipment Removal - Crew Oxygen Cylinder

(Figure 602)

SUBTASK 35-12-00-020-001

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

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

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

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

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

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

SUBTASK 35-12-00-080-003

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

SUBTASK 35-12-00-840-010

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

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

FORWARD CARGO COMPARTMENT

A

G19879 S0006577465_V2

Crew Oxygen Pressure Leak Check (Equipment Setup at the Oxygen Cylinder)
Figure 602/35-12-00-990-805 (Sheet 1 of 3)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

CREW OXYGEN CYLINDER (EXAMPLE)

B

G19956 S0006577466_V2

Crew Oxygen Pressure Leak Check (Equipment Setup at the Oxygen Cylinder)
Figure 602/35-12-00-990-805 (Sheet 2 of 3)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

CREW OXYGEN CYLINDER (EXAMPLE)

B

G87282 S0006577467_V2

Crew Oxygen Pressure Leak Check (Equipment Setup at the Oxygen Cylinder)
Figure 602/35-12-00-990-805 (Sheet 3 of 3)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Crew Oxygen Pressure Leak Check (Equipment Setup in the Flight Compartment)
Figure 603/35-12-00-990-806 (Sheet 1 of 2)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

W16496 S0006577485_V2

Crew Oxygen Pressure Leak Check (Equipment Setup in the Flight Compartment)
Figure 603/35-12-00-990-806 (Sheet 2 of 2)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

**FLIGHT COMPARTMENT
(EXAMPLE)**

W17211 S0006577486_V3

**First Observer's Oxygen Pressure Leak Check
Figure 604/35-12-00-990-811 (Sheet 1 of 4)**

ECCN 9E991 BOEING PROPRIETARY - See title page for details

W17400 S0006577487_V2

First Observer's Oxygen Pressure Leak Check
Figure 604/35-12-00-990-811 (Sheet 2 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

**FIRST OBSERVER'S
OXYGEN MASK STOWAGE BOX**

A

W17223 S0006577488_V2

**First Observer's Oxygen Pressure Leak Check
Figure 604/35-12-00-990-811 (Sheet 3 of 4)**

ECCN 9E991 BOEING PROPRIETARY - See title page for details

W17391 S0006577489_V2

First Observer's Oxygen Pressure Leak Check
Figure 604/35-12-00-990-811 (Sheet 4 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

**FLIGHT COMPARTMENT
(EXAMPLE)**

1 IF INSTALLED

W17768 S0006577490_V3

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

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 35-12-00-211-801

4. Crew Oxygen Cylinder Correct Installation and Condition Check

(Figure 601)

A. References

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

B. Location Zones

Zone	Area
122	Forward Cargo Compartment - Right

C. Crew Oxygen Cylinder Correct Installation and Condition Check

SUBTASK 35-12-00-910-008

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

SUBTASK 35-12-00-010-003

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

SUBTASK 35-12-00-211-003

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

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

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

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

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

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

LOM 443, 444, 450

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

LOM ALL

SUBTASK 35-12-00-211-004

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

SUBTASK 35-12-00-211-002

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

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

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

1) Make sure that the pressure is above the minimum necessary for dispatch.

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

ECCN 9E991 BOEING PROPRIETARY - See title page for details

The quantity and capacity of the installed cylinders

The number of crew and observers on the flight

The worst-case descent profile for the specified route.

2) Make sure that the crew oxygen cylinder is clean.

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

SUBTASK 35-12-00-410-011

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

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

PRESSURE REDUCING REGULATOR - REMOVAL/INSTALLATION

1. General

A. This procedure contains these tasks:

(1) Regulator/Transducer Assembly Removal

(2) Regulator/Transducer Assembly Installation

(3) Regulator/Transducer Assembly Component Removal

(4) Regulator/Transducer Assembly Component Installation.

TASK 35-12-11-000-801

2. Regulator/Transducer Assembly Removal

(Figure 401)

A. General

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

B. References

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

C. Location Zones

Zone	Area
122	Forward Cargo Compartment - Right

D. Remove the Regulator/Transducer Assembly

SUBTASK 35-12-11-910-001

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

SUBTASK 35-12-11-870-001

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

SUBTASK 35-12-11-860-001

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND

SUBTASK 35-12-11-010-001

(4) Get access to the crew oxygen cylinder(s).

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

SUBTASK 35-12-11-860-002

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

SUBTASK 35-12-11-020-001

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

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 443, 444, 450

(a) Disconnect the remote fill line from the regulator/ transducer assembly [1].

LOM ALL

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

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

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

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

SUBTASK 35-12-11-480-001

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

(7) If the installation of the assembly will not occur in 5 minutes, put a cap on the open oxygen line (TASK 35-00-00-420-801).

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

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

FORWARD CARGO COMPARTMENT

A

F67212 S0006577497_V2

Pressure Reducing Regulator Installation
Figure 401/35-12-11-990-801 (Sheet 1 of 5)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

F67343 S0006577499_V2

Pressure Reducing Regulator Installation
Figure 401/35-12-11-990-801 (Sheet 2 of 5)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

G87347 S0006577500_V2

Pressure Reducing Regulator Installation
Figure 401/35-12-11-990-801 (Sheet 3 of 5)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

REGULATOR/TRANSDUCER ASSEMBLY

C

F92220 S0006577502_V2

Pressure Reducing Regulator Installation
Figure 401/35-12-11-990-801 (Sheet 4 of 5)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

REGULATOR/TRANSDUCER ASSEMBLY

C

G87454 S0006577503_V2

Pressure Reducing Regulator Installation
Figure 401/35-12-11-990-801 (Sheet 5 of 5)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 35-12-11-400-801

3. Regulator/Transducer Assembly Installation

(Figure 401)

A. General

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

B. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-12-00-800-802	Leak Test the Crew Oxygen System After System Maintenance or Repair (P/B 201)

C. Tools/Equipment

Reference	Description
STD-13964	Wrench - Torque, 200 to 1000 in-lb

D. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Transducer assembly	35-12-52-01A-045	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447
		35-12-52-01B-025	LOM 450-999

E. Location Zones

Zone	Area
122	Forward Cargo Compartment - Right

F. Regulator/Transducer Assembly Installation

SUBTASK 35-12-11-910-002

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

SUBTASK 35-12-11-410-001

(2) Get access to the crew oxygen cylinder(s).

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

SUBTASK 35-12-11-420-001

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

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

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

(a) Remove the caps from the crew oxygen cylinder.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(b) Remove the caps from the regulator/transducer assembly [1].

(c) Install the regulator/transducer assembly [1] to the supply port on the crew oxygen cylinder.

1) Tighten the nut of the coupling assembly [9] with the torque wrench, STD-13964, to 375 ±25 in-lb (42 ±3 N·m).

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

1) Tighten the nut on the crew oxygen supply line to 170 in-lb (19 N·m) to 200 in-lb (23 N·m).

LOM 443, 444, 450

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

LOM ALL

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

G. Crew Oxygen Cylinder Restoration and Leak Check

SUBTASK 35-12-11-860-003

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

H. Electrical Connection Check

SUBTASK 35-12-11-860-004

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND

SUBTASK 35-12-11-210-001

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

END OF TASK

TASK 35-12-11-000-802

4. Regulator/Transducer Assembly Component Removal

(Figure 401)

A. General

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

(a) Transducer

(b) Coupling assembly

(c) Regulator assembly

(d) Tubing components.

B. References

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

ECCN 9E991 BOEING PROPRIETARY - See title page for details

C. Location Zones

Zone	Area
122	Forward Cargo Compartment - Right

D. Prepare to Remove the Components

SUBTASK 35-12-11-910-003

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

SUBTASK 35-12-11-020-002

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

E. Remove the Transducer from the Regulator/Transducer Assembly

SUBTASK 35-12-11-020-005

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

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

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

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

(c) Disconnect the transducer [2].

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

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

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

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

SUBTASK 35-12-11-020-003

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

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

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

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-442, 445-447, 451-999

(b) Remove the plug [10] from the regulator/transducer assembly [1], if necessary.

LOM ALL

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

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

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

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

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

SUBTASK 35-12-11-000-001

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

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

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

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

1) Discard the packing [6].

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

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

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

H. Remove the Tubing Components on the Regulator Assembly

SUBTASK 35-12-11-020-006

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

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(a) Discard the packing [6].

SUBTASK 35-12-11-020-007

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

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

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

——— END OF TASK ———

TASK 35-12-11-400-802

5. Regulator/Transducer Assembly Component Installation

(Figure 401)

A. General

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

(a) Tubing components

(b) Regulator assembly

(c) Transducer

(d) Coupling assembly.

B. References

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

C. Tools/Equipment

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

D. Consumable Materials

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

E. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
2	Transducer	35-12-21-01-005	LOM ALL
5	Ring	35-12-11-01-035	LOM ALL

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(Continued)

AMM Item	Description	AIPC Reference	AIPC Effectivity
6	Packing	35-12-11-01-020	LOM ALL
7	Regulator assembly	35-12-11-01-040	LOM ALL

F. Location Zones

Zone	Area
122	Forward Cargo Compartment - Right

G. Prepare for the Installation

SUBTASK 35-12-11-910-004

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

H. Install the Tubing Components on the Regulator Assembly

SUBTASK 35-12-11-420-002

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

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

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

NOTE: Oxygen clean fittings come from a sealed package labeled for oxygen system installation. 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) Make sure that you use only oxygen clean fittings.

(b) If necessary, remove the protective Flareless Tube Cap, 1/2-20 Thread, STD-1130.

(c) Apply a thin layer of grease, D00173, or Krytox 240AC perfluoropolyether grease, D50063 (optional), to the packings [6].

(d) Install the packing [6] and union [8].

(e) Tighten the union [8] to 170 in-lb (19.2 N·m) - 200 in-lb (22.6 N·m).

SUBTASK 35-12-11-420-003

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

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(WARNING PRECEDES)

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

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

NOTE: Oxygen clean fittings come from a sealed package labeled for oxygen system installation. 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) Make sure that you use only oxygen clean fittings.

(b) If necessary, remove the protective Flareless Tube Cap, 1/2-20 Thread, STD-1130.

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

(d) Make sure that the threads of the nut [4] engage the second set of threads against the shoulder on the elbow [3].

(e) Install the backup ring [5] on the elbow [3].

(f) Apply a thin layer of grease, D00173, or Krytox 240AC perfluoropolyether grease, D50063 (optional), to the packing [6].

(g) Install the packing [6].

(h) Install the elbow [3] on the regulator assembly [7] so that it turns freely.

(i) Make sure that the elbow [3] is aligned correctly for the installation.

(j) Tighten the nut [4] on the elbow [3] to 170 in-lb (19.2 N·m) - 200 in-lb (22.6 N·m).

I. Install the Regulator Assembly to the Coupling Assembly

SUBTASK 35-12-11-420-004

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

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

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

NOTE: Oxygen clean fittings come from a sealed package labeled for oxygen system installation. 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) Make sure that you use only oxygen clean fittings.

(b) If necessary, remove the protective Flareless Tube Cap, 1/2-20 Thread, STD-1130.

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

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

(e) Tighten the connection between the nut on the coupling assembly [9] and union [8] on the regulator assembly [7] to 170 in-lb (19.2 N·m) - 200 in-lb (22.6 N·m).

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-442, 445-447, 451-999

J. Install the Plug to the Coupling Assembly

SUBTASK 35-12-11-420-005

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

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

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

NOTE: Oxygen clean fittings come from a sealed package labeled for oxygen system installation. 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) Make sure that you use only oxygen clean fittings.

(b) If necessary, remove the protective Flareless Tube Cap, 1/2-20 Thread, STD-1130.

(c) Install the plug [10].

(d) Tighten the plug [10] to 170 in-lb (19.2 N·m) - 200 in-lb (22.6 N·m).

LOM ALL

K. Install the Transducer to the Coupling Assembly

SUBTASK 35-12-11-420-006

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

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

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

NOTE: Oxygen clean fittings come from a sealed package labeled for oxygen system installation. 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) Make sure that you use only oxygen clean fittings.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(b) If necessary, remove the protective Flareless Tube Cap, 1/2-20 Thread, STD-1130.

(c) Loosely install the transducer [2].

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

(e) Tighten the nut that attaches the transducer [2] to the coupling assembly [9] to 100 in-lb (11.3 N·m) - 110 in-lb (12.4 N·m).

1) If it is necessary, loosen the B-nut and rotate the transducer [2] to archive desired installation orientation.

2) Re-tighten the B-nut to 100 in-lb (11.3 N·m) - 110 in-lb (12.4 N·m).

(f) If necessary, install a new identification label.

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

SUBTASK 35-12-11-420-007

(1) Get access to the crew oxygen cylinder.

SUBTASK 35-12-11-420-008

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

——— END OF TASK ———

ECCN 9E991 BOEING PROPRIETARY - See title page for details

PRESSURE TRANSDUCER - REMOVAL/INSTALLATION

1. **General**

A. This procedure contains these tasks:

(1) Pressure Transducer Removal

(2) Pressure Transducer Installation.

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

TASK 35-12-21-000-801

2. **Pressure Transducer Removal**

(Figure 401)

A. General

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

B. References

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

C. Location Zones

Zone	Area
122	Forward Cargo Compartment - Right

D. Remove the Pressure Transducer

SUBTASK 35-12-21-910-001

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

SUBTASK 35-12-21-870-001

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

SUBTASK 35-12-21-860-001

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND

SUBTASK 35-12-21-010-001

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

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SUBTASK 35-12-21-860-002

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

SUBTASK 35-12-21-020-001

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

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

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

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

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

(d) Remove the pressure transducer [2].

SUBTASK 35-12-21-480-001

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

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

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

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

FORWARD CARGO COMPARTMENT

A

F72259 S0006577511_V2

Pressure Transducer Installation
Figure 401/35-12-21-990-801 (Sheet 1 of 3)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

CREW OXYGEN CYLINDER (EXAMPLE)

B

F72260 S0006577513_V2

Pressure Transducer Installation
Figure 401/35-12-21-990-801 (Sheet 2 of 3)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

CREW OXYGEN CYLINDER (EXAMPLE)

B

G87532 S0006577514_V2

Pressure Transducer Installation
Figure 401/35-12-21-990-801 (Sheet 3 of 3)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 35-12-21-400-801

3. Pressure Transducer Installation

(Figure 401)

A. General

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

B. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-12-00-800-802	Leak Test the Crew Oxygen System After System Maintenance or Repair (P/B 201)

C. Tools/Equipment

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

D. Expendables/Parts

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

E. Location Zones

Zone	Area
122	Forward Cargo Compartment - Right

F. Procedure

SUBTASK 35-12-21-910-002

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

SUBTASK 35-12-21-410-001

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

SUBTASK 35-12-21-420-001

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

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

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

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

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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

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

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

(d) Tighten the coupling nut [6] that attaches the transducer [2] to the coupling assembly to 100 in-lb (11.3 N·m) - 110 in-lb (12.4 N·m).

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

SUBTASK 35-12-21-840-001

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

G. Do a Check of the Electrical Connection

SUBTASK 35-12-21-860-003

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND

SUBTASK 35-12-21-210-001

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

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

CREW OXYGEN PRESSURE INDICATOR - REMOVAL/INSTALLATION

1. General

A. This procedure has two tasks:

(1) Crew oxygen pressure indicator removal

(2) Crew oxygen pressure indicator installation

TASK 35-12-22-020-801

2. Crew Oxygen Pressure Indicator Removal

Figure 401

A. Location Zones

Zone	Area
212	Flight Compartment - Right

B. Crew Oxygen Pressure Indicator Removal

SUBTASK 35-12-22-020-001

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

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT
LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-999			
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

LOM ALL

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

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

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

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

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

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

U62443 S0000207539_V2

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

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 35-12-22-400-801

3. Crew Oxygen Pressure Indicator Installation

A. References

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

B. Location Zones

Zone	Area
212	Flight Compartment - Right

C. Crew Oxygen Pressure Indicator Installation

SUBTASK 35-12-22-400-001

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

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

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

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

(d) Carefully put the P5-14 overhead panel into its position in the P5 panel.

(e) Tighten the 4 quarter-turn fasteners that hold the P5-14 overhead panel.

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT
LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-999			
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

LOM ALL

SUBTASK 35-12-22-720-001

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

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

DISCHARGE INDICATOR DISC - REMOVAL/INSTALLATION

1. General

A. This procedure has these tasks:

(1) Overboard Discharge Disc Removal

(2) Overboard Discharge Disc Installation.

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

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

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

TASK 35-12-51-000-801

2. Discharge Indicator Disk Removal

(Figure 401)

A. References

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

B. Location Zones

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

C. Procedure

SUBTASK 35-12-51-910-001

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

SUBTASK 35-12-51-200-001

(2) Measure the pressure of the crew oxygen cylinder.

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

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

SUBTASK 35-12-51-410-001

(3) To remove the crew oxygen cylinder, do this task: Crew Oxygen Cylinder Replacement, TASK 12-15-21-600-801 or Crew Oxygen Cylinder Replacement, TASK 12-15-21-600-803-002.

SUBTASK 35-12-51-010-001

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

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 35-12-51-020-001

(5) Remove the snap ring [2] with snap ring pliers.

(a) Keep the snap ring [2] for the installation.

SUBTASK 35-12-51-020-002

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

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

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

OVERBOARD DISCHARGE PORT

A

F61289 S0006577520_V2

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

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 35-12-51-400-801

3. Discharge Indicator Disk Installation

(Figure 401)

A. References

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

B. Expendables/Parts

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

C. Location Zones

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

D. Procedure

SUBTASK 35-12-51-910-002

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

SUBTASK 35-12-51-410-002

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

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

SUBTASK 35-12-51-420-001

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

SUBTASK 35-12-51-420-002

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

SUBTASK 35-12-51-210-001

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

SUBTASK 35-12-51-420-003

(6) If it was removed, install the crew oxygen cylinder. Do this task: (Crew Oxygen Cylinder Replacement, TASK 12-15-21-600-801 or Crew Oxygen Cylinder Replacement, TASK 12-15-21-600-803-002).

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

REMOTE FILL LINE CHECK VALVE - REMOVAL/INSTALLATION

1. General

A. This procedure contains these tasks:

(1) Remote Fill Line Check Valve Removal

(2) Remote Fill Line Check Valve Installation.

TASK 35-12-61-000-801

2. Remote Fill Line Check Valve Removal

Figure 401

A. General

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

B. References

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

C. Location Zones

Zone	Area
122	Forward Cargo Compartment - Right

D. Prepare for the Remote Fill Line Check Valve Removal

SUBTASK 35-12-61-910-001

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

SUBTASK 35-12-61-870-001

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

SUBTASK 35-12-61-010-001

(3) Get access to the crew oxygen cylinder.

SUBTASK 35-12-61-860-001

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

E. Remove the Remote Fill Line Check Valve

SUBTASK 35-12-61-020-001

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

SUBTASK 35-12-61-020-002

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

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 35-12-61-480-001

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

(3) If the installation of the assembly will not occur in 5 minutes, put a cap on the open oxygen line (Installation of Caps on Open Oxygen Lines, TASK 35-00-00-420-801).

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

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

FORWARD CARGO COMPARTMENT

A

2399417 S0000554370_V1

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

ECCN 9E991 BOEING PROPRIETARY - See title page for details

CREW OXYGEN CYLINDER (EXAMPLE)

B

2399415 S0000554371_V1

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

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 35-12-61-400-801

3. Remote Fill Line Check Valve Installation

Figure 401

A. General

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

B. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-12-00-800-802	Leak Test the Crew Oxygen System After System Maintenance or Repair (P/B 201)

C. Location Zones

Zone	Area
122	Forward Cargo Compartment - Right

D. Prepare for the Remote Fill Line Check Valve Installation

SUBTASK 35-12-61-910-002

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

SUBTASK 35-12-61-010-002

(2) Get access to the crew oxygen cylinder.

E. Remote Fill Line Check Valve Installation

SUBTASK 35-12-61-080-001

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

SUBTASK 35-12-61-420-001

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

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

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

SUBTASK 35-12-61-420-002

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

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

F. Remote Fill Line Check Valve Installation Test

SUBTASK 35-12-61-790-001

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

——— END OF TASK ———

ECCN 9E991 BOEING PROPRIETARY - See title page for details

REMOTE FILL PANEL PRESSURE INDICATOR - REMOVAL/INSTALLATION

1. General

A. This procedure has these tasks:

(1) Remote Fill Panel Pressure Indicator Removal

(2) Remote Fill Panel Pressure Indicator Installation.

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

TASK 35-12-71-000-801

2. Remote Fill Panel Pressure Indicator Removal

(Figure 401)

A. Location Zones

Zone	Area
118	Electrical and Electronics Compartment - Right

B. Procedure

SUBTASK 35-12-71-860-001

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND

SUBTASK 35-12-71-010-001

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

SUBTASK 35-12-71-010-002

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

SUBTASK 35-12-71-860-002

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

SUBTASK 35-12-71-100-001

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

SUBTASK 35-12-71-020-001

(6) Disconnect the electrical connector [2].

SUBTASK 35-12-71-020-002

(7) Remove the pressure indicator [3].

SUBTASK 35-12-71-020-003

(8) Remove the gasket [6].

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

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

H11073 S0006577525_V2

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

ECCN 9E991 BOEING PROPRIETARY - See title page for details

REMOTE FILL PANEL

B

H11081 S0006577526_V2

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

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 35-12-71-400-801

3. Remote Fill Panel Pressure Indicator Installation

(Figure 401)

A. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
3	Indicator	35-12-71-02-110	LOM 443, 444, 450
6	Gasket	35-12-71-02-120	LOM 443, 444, 450

B. Location Zones

Zone	Area
118	Electrical and Electronics Compartment - Right

C. Procedure

SUBTASK 35-12-71-420-001

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

SUBTASK 35-12-71-910-001

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

SUBTASK 35-12-71-410-001

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

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

SUBTASK 35-12-71-420-002

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

SUBTASK 35-12-71-420-003

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND

SUBTASK 35-12-71-210-001

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

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

SUBTASK 35-12-71-420-004

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

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

REMOTE FILL PANEL AND FILL VALVE - REMOVAL/INSTALLATION

1. General

A. This procedure has these tasks:

(1) Remote Fill Panel and Fill Valve Removal

(2) Remote Fill Panel and Fill Valve Installation.

TASK 35-12-81-000-801

2. Remote Fill Panel and Fill Valve Removal

(Figure 401)

A. General

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

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

B. References

Reference	Title
35-00-00-420-801	Installation of Caps on Open Oxygen Lines (P/B 201)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-12-71-000-801	Remote Fill Panel Pressure Indicator Removal (P/B 401)

C. Location Zones

Zone	Area
118	Electrical and Electronics Compartment - Right

D. Prepare for Removal

SUBTASK 35-12-81-910-001

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

SUBTASK 35-12-81-860-001

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND

SUBTASK 35-12-81-860-002

CAUTION

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

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

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

SUBTASK 35-12-81-020-001

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

ECCN 9E991 BOEING PROPRIETARY - See title page for details

E. Remove the Remote Fill Panel and Fill Valve

SUBTASK 35-12-81-020-002

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

SUBTASK 35-12-81-480-001

> **WARNING** USE ONLY OXYGEN-CLEAN COMPONENTS IN THE OXYGEN SYSTEM. IF YOU DO NOT USE OXYGEN-CLEAN COMPONENTS, A FIRE OR AN EXPLOSION CAN OCCUR. THIS CAN CAUSE DAMAGE TO EQUIPMENT OR INJURIES TO PERSONS.

(2) If the installation of the assembly will not occur within 5 minutes, do this task: Installation of Caps on Open Oxygen Lines, TASK 35-00-00-420-801.

NOTE: Oxygen clean fittings come from a sealed package labeled for oxygen system installation. Make sure that you use only oxygen clean fittings. Some fittings used in the oxygen system are the same as fittings in other systems and are not oxygen clean. If it is necessary to clean parts, use the applicable oxygen procedures to clean the parts. This also applies to tube caps or plugs which must be as clean as the installation connections.

SUBTASK 35-12-81-860-003

(3) Disconnect the electrical connector [3] from the back of the pressure indicator [4].

SUBTASK 35-12-81-020-003

(4) Open the door [5] on the remote fill panel assembly [1].

SUBTASK 35-12-81-020-004

(5) To remove the fill valve [11], do these steps:

(a) Remove the screws [7] and washers [8].

(b) Remove the screws [9] and washers [10].

(c) Remove the fill valve [11].

(d) Remove the gaskets [2].

1) Examine the gaskets [2] for cracks or other damages.

2) Discard the gasket [2], if it is damaged.

SUBTASK 35-12-81-020-005

(6) To remove the remote fill panel assembly [1], do these steps:

(a) Remove the bolts [12], washers [13] and nuts [14] from the back and the front sides of the remote fill panel assembly [1].

(b) Remove the remote fill panel assembly [1].

SUBTASK 35-12-81-020-006

(7) If it is necessary to remove the pressure indicator [4], do this task: Remote Fill Panel Pressure Indicator Removal, TASK 35-12-71-000-801.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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Remote Fill Panel and Fill Valve Installation
Figure 401/35-12-81-990-801 (Sheet 1 of 2)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

REMOTE FILL PANEL

B

H10984 S0006577532_V2

Remote Fill Panel and Fill Valve Installation
Figure 401/35-12-81-990-801 (Sheet 2 of 2)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 35-12-81-400-801

3. Remote Fill Panel and Fill Valve Installation

(Figure 401)

A. References

Reference	Title
12-15-21-610-801-002	Remote Fill Panel Servicing (P/B 301)
20-10-44-400-801	Lockwire, Cotter Pins, and Lockrings - Installation (P/B 401)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-12-00-800-802	Leak Test the Crew Oxygen System After System Maintenance or Repair (P/B 201)
35-12-71-400-801	Remote Fill Panel Pressure Indicator Installation (P/B 401)

B. Tools/Equipment

Reference	Description
STD-1130	Cap - Protective, Flareless Tube, 1/2-20 Thread

C. Consumable Materials

Reference	Description	Specification
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	AMS3819 Class 1 Grade A or B Form 1 (Supersede BMS15-5 CL A)
G50306	Compound - Leak Detection, Oxygen System	MIL-PRF-25567 (BAC5402)

D. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Panel assembly	35-12-71-02-125	LOM 443, 444, 450
2	Gasket	35-12-71-02-115	LOM 443, 444, 450

E. Location Zones

Zone	Area
118	Electrical and Electronics Compartment - Right

F. Prepare for Installation

SUBTASK 35-12-81-910-002

(1) Read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

G. Install the Remote Fill Panel and Fill Valve

SUBTASK 35-12-81-420-001

(1) To install the remote fill panel assembly [1], do these steps:

(a) Put the remote fill panel assembly [1] into position.

(b) Install the bolts [12], washers [13] and nuts [14].

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 35-12-81-420-002

> **WARNING** USE ONLY OXYGEN-CLEAN COMPONENTS IN THE OXYGEN SYSTEM. IF YOU DO NOT USE OXYGEN-CLEAN COMPONENTS, A FIRE OR AN EXPLOSION CAN OCCUR. THIS CAN CAUSE DAMAGE TO EQUIPMENT OR INJURIES TO PERSONS.

(2) To install the fill valve [11], do these steps:

NOTE: Oxygen clean fittings come from a sealed package labeled for oxygen system installation. Make sure that you use only oxygen clean fittings. Some fittings used in the oxygen system are the same as fittings in other systems and are not oxygen clean. If it is necessary to clean parts, use the applicable oxygen procedures to clean the parts. This also applies to tube caps or plugs which must be as clean as the installation connections.

(a) Put the gaskets [2] into position.

(b) Put the fill valve [11] into position.

(c) Install the screws [9] and washers [10].

(d) Install the screws [7] and washers [8].

SUBTASK 35-12-81-080-001

(3) Remove the Flareless Tube Cap, 1/2-20 Thread, STD-1130 from the fill line.

SUBTASK 35-12-81-420-003

(4) Attach and tighten the B-nut [6] to the fill line.

SUBTASK 35-12-81-420-004

(5) If it is necessary to install the pressure indicator [4], do this task: Remote Fill Panel Pressure Indicator Installation, TASK 35-12-71-400-801.

SUBTASK 35-12-81-420-005

(6) Connect the electrical connector [3] to the back of the pressure indicator [4].

SUBTASK 35-12-81-410-001

(7) Close the door [5] on the remote fill panel assembly [1].

H. Put the Airplane Back To Its Usual Condition.

SUBTASK 35-12-81-860-004

> **WARNING** OPEN THE SHUTOFF VALVE SLOWLY. THE REMAINING OXYGEN CAN RELEASE WITH A LARGE FORCE WHICH CAN CAUSE A FIRE. THIS COULD CAUSE INJURY TO PERSONS AND DAMAGE TO THE AIRPLANE.

(1) Open the shutoff valve fully on the crew oxygen cylinder.

(a) Close the shutoff valve one fourth of a turn.

SUBTASK 35-12-81-860-005

(2) Remove the safety tag and close this circuit breaker:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND

SUBTASK 35-12-81-210-001

(3) Make sure the pressure shown on the pressure indicator [4], the crew oxygen cylinder, and the flight compartment are all approximately equal.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 35-12-81-790-001

(4) Apply leak detection compound, G50306 to the B-nut [6] on the fill line to make sure there are no leaks.

SUBTASK 35-12-81-610-001

(5) Do the servicing of the crew oxygen cylinder, refer to the task: TASK 12-15-21-610-801-002.

NOTE: Examine the B-nut [6] for leakage immediately after opening the supply shutoff valve on the oxygen service equipment.

SUBTASK 35-12-81-790-002

(6) Remove the leak detection compound, G50306 with a clean cotton wiper, G00034 immediately after you do the test.

SUBTASK 35-12-81-910-003

(7) Lockwire the shutoff valve on the crew oxygen cylinder in the open position (Lockwire, Cotter Pins, and Lockrings - Installation, TASK 20-10-44-400-801).

SUBTASK 35-12-81-710-001

(8) Do the system operational check. Do this task: Leak Test the Crew Oxygen System After System Maintenance or Repair, TASK 35-12-00-800-802.

SUBTASK 35-12-81-410-002

(9) Re-install the equipment case cover (View A).

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

CREW OXYGEN MASK/STOWAGE BOX - MAINTENANCE PRACTICES

1. General

A. This procedure contains this task:

(1) Crew Oxygen Mask Stowage.

B. This procedure gives the maintenance practices for stowage of the crew oxygen masks. Correct stowage is necessary to make sure the flight crew can quickly put on the oxygen masks.

C. Only approved persons are permitted to do the stowage procedure.

TASK 35-12-85-910-801

2. Crew Oxygen Mask Stowage

(Figure 201)

A. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-12-00-700-801	Crew Oxygen Stowage Box Test (Mask Stowed in Stowage Box) (P/B 501)

B. Location Zones

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right

LOM 426, 429-431

C. Stow the Crew Oxygen Masks (B/E AEROSPACE MASKS)

SUBTASK 35-12-85-910-007

(1) Read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-12-85-010-005

(2) Go into the flight compartment to get access to the applicable crew oxygen mask stowage box.

SUBTASK 35-12-85-210-004

(3) Examine the mask, harness, and oxygen supply hose to make sure that the components are satisfactory:

> **WARNING** DO NOT PUSH THE HARNESS INFLATION LEVERS ON THE REGULATOR. THIS WILL INFLATE THE HARNESS, AND WILL STOP THE CORRECT STORAGE OF THE MASK/REGULATOR. THIS CAN CAUSE INJURIES TO PERSONNEL AND DAMAGE TO EQUIPMENT.

(a) Do not push the harness inflation button on the regulator.

(b) Make sure that the harness and oxygen supply hose are not twisted or inverted inside out.

(c) Make sure that the face seal padding on the oxygen mask is soft and quickly moves back to the initial position when you push on it.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 426, 429-431 (Continued)

(d) Remove the opaque protective shipping cover from the face mask lens window, if it is installed.

NOTE: On some new masks an opaque (not transparent) protective shipping/storage cover may be installed on the face mask goggle lens by the manufacturer. Make sure you peel off the opaque protective shipping cover before you stow the mask, if the cover is on the mask.

(4) If the mask, harness, or oxygen supply hose are not in satisfactory condition, remove and replace the mask assembly.

SUBTASK 35-12-85-420-016

(5) Open the mask stowage box doors.

SUBTASK 35-12-85-420-017

(6) Connect the mask-regulator oxygen supply hose to the connector inside the mask stowage box.

SUBTASK 35-12-85-420-018

(7) Connect the mask-regulator microphone line to the connector inside the mask stowage box.

SUBTASK 35-12-85-420-019

(8) Grasp the mask-regulator with the DILUTION CONTROL KNOB against your palm.

SUBTASK 35-12-85-420-020

(9) Make sure that the harness is not inflated, twisted or inverted inside out.

SUBTASK 35-12-85-420-024

(10) Make sure that the cloth liner is secured at the top of the box and laying flat against all sides of the box interior.

SUBTASK 35-12-85-420-021

(11) Coil the oxygen supply hose against the bottom surface of the mask stowage box.

NOTE: Use the largest diameter possible to coil the hose. Rotate the mask as necessary to keep the oxygen hose and microphone line from getting twisted.

SUBTASK 35-12-85-420-025

(12) Grasp the harness "cross" and pull it towards the top of the facepiece (down) and tightly roll the mask around it.

(a) Let the excess harness hang down from the top of the rolled face piece.

NOTE: Do not push the cross of the harness into the nose cone. If you do, the harness can get stuck inside the mask when it is inflated.

SUBTASK 35-12-85-420-022

(13) Insert mask, face seal down and nose bridge towards the top of the mask stowage box.

(a) Make sure that the supply hose position is on the outboard side of the folded mask.

(b) Push the mask down until all portions of the mask with the exception of the DILUTION CONTROL KNOB is below the top surface of the stowage box.

SUBTASK 35-12-85-210-006

(14) Close the right lid of the mask stowage box.

(a) Make sure that the "OXY ON" flag is visible on the door.

SUBTASK 35-12-85-420-023

(15) Make sure that the hose for the oxygen mask is not pinched and then close the left lid.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 426, 429-431 (Continued)

(a) Push the TEST/RESET BUTTON on the right lid and then make sure that the "OXY ON" flag is not visible.

(b) Put the DILUTION CONTROL KNOB to 100% position.

SUBTASK 35-12-85-710-006

(16) Do this task: Crew Oxygen Stowage Box Test (Mask Stowed in Stowage Box), TASK 35-12-00-700-801.

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-425, 427, 428, 432-434, 437-447, 450-999

D. Stow the Crew Oxygen Masks (EROS MF10/MF20 and ORONASAL MC10 MASKS)

SUBTASK 35-12-85-910-005

(1) Read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-12-85-010-003

(2) Go into the flight compartment to get access to the applicable crew oxygen mask stowage box.

SUBTASK 35-12-85-210-001

(3) Examine the mask, harness, and oxygen supply hose to make sure that the components are satisfactory:

WARNING	DO NOT PUSH THE HARNESS INFLATION LEVERS ON THE REGULATOR. THIS WILL INFLATE THE HARNESS, AND WILL STOP THE CORRECT STORAGE OF THE MASK/REGULATOR. THIS CAN CAUSE INJURIES TO PERSONNEL AND DAMAGE TO EQUIPMENT.

(a) Do not push the HARNESS INFLATION LEVERS on the regulator.

(b) Make sure that the harness and oxygen supply hose are not twisted or inverted inside out.

(c) Make sure that the face seal padding on the oxygen mask is soft and quickly moves back to the initial position when you push on it.

LOM 411, 422, 425, 427, 428, 433, 434, 440, 442-447, 450-999

(d) Remove the opaque protective shipping cover from the face mask lens, if it is installed.

1) Do not remove the clear, electrostatic, tear-off film strip from the mask lens (View E, Figure 201).

2) Do not remove the clear tear-off film strip, if it is installed.

3) Make sure that the opaque protective shipping cover is removed before you stow the mask, if the cover is on the mask.

NOTE: A clear, electrostatic, tear-off film strip may be installed on some goggles. The clear electrostatic tear-off strip is for the quick removal of ice or condensation from the mask lens after a rapid decompression.

NOTE: On some new masks an opaque (not transparent) protective shipping/storage cover may be installed on the face mask goggle lens by the manufacturer.

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-425, 427, 428, 432-434, 437-447, 450-999

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 35-12-85-960-001

(4) If the mask, harness, or oxygen supply hose are not in satisfactory condition, remove and replace the mask assembly.

SUBTASK 35-12-85-420-026

(5) Open the mask stowage box doors.

SUBTASK 35-12-85-420-027

(6) Connect the mask-regulator oxygen supply hose to the connector inside the mask stowage box.

SUBTASK 35-12-85-420-028

(7) Connect the mask-regulator microphone line to the connector inside the mask stowage box.

SUBTASK 35-12-85-860-009

(8) Make sure that the DILUTION CONTROL LEVER is on the 100% position.

SUBTASK 35-12-85-860-010

(9) Make sure that the EMERGENCY OXYGEN CONTROL KNOB is in the normal position.

SUBTASK 35-12-85-530-001

(10) Coil the oxygen supply hose into the bottom of the mask stowage box.

(a) Use the largest diameter possible to coil the hose.

SUBTASK 35-12-85-530-002

CAUTION

DO NOT PUSH ON THE HARNESS INFLATION LEVERS, AS IT WILL INFLATE THE HARNESS AND PREVENT CORRECT STOWAGE OF THE MASK.

(11) Make sure that the harness is completely deflated.

SUBTASK 35-12-85-530-003

(12) Hold the mask by the regulator, with the facepiece down and the inside of the mask toward you.

SUBTASK 35-12-85-530-004

CAUTION

DO NOT PUSH THE HARNESS CROSS STRAPS INTO OR BEHIND THE NOSE PIECE, AS IT MAY CAUSE THE CROSS STRAPS TO HANG UP ON THE MASK DURING INFLATION.

(13) Grasp the harness and pull it downward such that the cross straps are below the facepiece.

(a) Let the excess harness hang downward.

SUBTASK 35-12-85-530-005

(14) Position the oxygen supply hose down the center of the facepiece.

SUBTASK 35-12-85-530-006

(15) Put the harness into the mask stowage box, followed by the mask-regulator assembly.

SUBTASK 35-12-85-530-007

(16) Push down on the assembly until the mask-regulator is fully seated against the stop inside the mask stowage box.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 402, 404, 406, 407, 412, 415, 416, 420, 423, 424, 427, 428, 432, 437-439, 441, 464; AIRPLANES WITH OXYGEN MASK STOWAGE BOX ASSEMBLY WITH DOOR LOCK PIN

SUBTASK 35-12-85-530-021

(17) Position the mask regulator to fully engage the door pin of the left door in the mating hole at the left side of the regulator.

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-425, 427, 428, 432-434, 437-447, 450-999

SUBTASK 35-12-85-530-008

(18) Close the right lid on the mask stowage box.

(a) Make sure that the door does not pinch on the oxygen supply hose.

SUBTASK 35-12-85-530-009

(19) Close the left lid on the mask stowage box.

NOTE: The "OXY ON" flag will be visible on the door.

SUBTASK 35-12-85-530-010

CAUTION

DO NOT PUSH ON THE HARNESS INFLATION LEVERS, AS IT WILL INFLATE THE HARNESS AND PREVENT CORRECT STOWAGE OF THE MASK.

(20) Push the TEST/RESET LEVER on the left lid and release.

NOTE: The "OXY ON" flag will go out of view when the control lever is released.

LOM 404, 411, 412, 415, 416, 423, 424, 432, 437-439, 441

E. Stow the Observer's Oxygen Mask (MASK STOWED IN STOWAGE CUP)

SUBTASK 35-12-85-410-011

(1) Do these steps to coil the observer's oxygen supply hose:

(a) Make sure that the supply hose is attached to the quick disconnect fitting.

(b) Hold the oxygen mask and harness in your hand.

(c) Coil the oxygen supply hose.

1) Make sure that the coils are symmetrical.

(d) Put the oxygen supply hose coils on the shelf below the mask stowage cup.

SUBTASK 35-12-85-410-012

(2) Do these steps to put the harness and mask in the mask stowage cup.

(a) When most of the oxygen supply hose is put into coils, position the harness with the two large spacers in the back of the oxygen stowage cup.

(b) Put the mask/regulator into the oxygen stowage cup.

SUBTASK 35-12-85-410-013

(3) Do a check of the oxygen mask:

(a) Make sure that the oxygen supply hose, harness and mask are installed correctly in the mask stowage cup.

(b) Make sure that the DILUTION CONTROL LEVER is set to the 100% position.

(c) Make sure that the EMERGENCY OXYGEN CONTROL KNOB is in the normal position.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 404, 411, 412, 415, 416, 423, 424, 432, 437-439, 441 (Continued)

SUBTASK 35-12-85-710-004

(4) Do this task: Crew Oxygen Stowage Box Test (Mask Stowed in Stowage Box), TASK 35-12-00-700-801.

LOM ALL

——— END OF TASK ———

ECCN 9E991 BOEING PROPRIETARY - See title page for details

FLIGHT COMPARTMENT
(EXAMPLE)

FLIGHT COMPARTMENT
(EXAMPLE)

1 IF INSTALLED

H37080 S0006577542_V3

Crew Oxygen Mask Maintenance Practices
Figure 201/35-12-85-990-803 (Sheet 1 of 8)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

FLIGHT COMPARTMENT
(EXAMPLE)

FLIGHT COMPARTMENT
(EXAMPLE)

H37075 S0006577543_V3

Crew Oxygen Mask Maintenance Practices
Figure 201/35-12-85-990-803 (Sheet 2 of 8)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

CREW OXYGEN MASK
(CAPTAIN'S OXYGEN MASK IS SHOWN, OTHER CREW MEMBERS' OXYGEN MASKS ARE EQUIVALENT)

A

H37094 S0006577550_V3

Crew Oxygen Mask Maintenance Practices
Figure 201/35-12-85-990-803 (Sheet 3 of 8)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

CREW OXYGEN MASK
(CAPTAIN'S OXYGEN MASK IS SHOWN, OTHER CREW MEMBERS' OXYGEN MASKS ARE EQUIVALENT)

A

H15340 S0006577551_V2

Crew Oxygen Mask Maintenance Practices
Figure 201/35-12-85-990-803 (Sheet 4 of 8)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

CREW OXYGEN MASK
(CAPTAIN'S OXYGEN MASK IS SHOWN, OTHER CREW MEMBERS' OXYGEN MASKS ARE EQUIVALENT)

A

H98645 S0006577556_V2

Crew Oxygen Mask Maintenance Practices
Figure 201/35-12-85-990-803 (Sheet 5 of 8)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

1 DOOR LOCK PIN IS INSTALLED ON OXYGEN MASK STOWAGE BOX ASSEMBLIES P/N MXP147-2 AND MXP147-5 ONLY.

2430209 S0000562516_V5

Crew Oxygen Mask Maintenance Practices
Figure 201/35-12-85-990-803 (Sheet 6 of 8)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

H96121 S0006577565_V3

Crew Oxygen Mask Maintenance Practices
Figure 201/35-12-85-990-803 (Sheet 7 of 8)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

OXYGEN MASK/REGULATOR
(SHOWN INFLATED)
(EXAMPLE)

E

1342494 S0000238502_V3

Crew Oxygen Mask Maintenance Practices
Figure 201/35-12-85-990-803 (Sheet 8 of 8)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

CREW OXYGEN MASK/STOWAGE BOX - REMOVAL/INSTALLATION

1. General

A. This procedure contains these tasks:

(1) A removal of the oxygen mask stowage box

(2) An installation of the oxygen mask stowage box

(3) A removal of the oxygen mask/regulator

(4) An installation of the oxygen mask/regulator.

TASK 35-12-85-000-801

2. Oxygen Mask Stowage Box Removal

(Figure 401)

A. References

Reference	Title
32-51-41-000-801	Nose Landing Gear Steering Control Wheel Removal (P/B 401)
35-00-00-420-801	Installation of Caps on Open Oxygen Lines (P/B 201)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-12-00-800-801	Bleed the Crew Oxygen System Prior to System Maintenance or Repair (P/B 201)

B. Location Zones

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right

C. Oxygen Mask Stowage Box Removal

SUBTASK 35-12-85-910-001

(1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-12-85-870-001

(2) Do this task: Bleed the Crew Oxygen System Prior to System Maintenance or Repair, TASK 35-12-00-800-801.

SUBTASK 35-12-85-860-001

(3) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
D	22	C00086	AUDIO F/O
D	23	C00083	AUDIO CAPT
D	24	C00085	AUDIO OBS

SUBTASK 35-12-85-010-001

(4) Go into the flight compartment to get access to the crew oxygen mask stowage box(es).

SUBTASK 35-12-85-860-002

(5) Make sure that the crew oxygen supply line is not pressurized.

SUBTASK 35-12-85-020-001

(6) Do these steps to remove the oxygen mask stowage box:

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(a) Loosen the four quarter-turn fasteners [1].

(b) Carefully pull the mask stowage box assembly [5] out of the receptacle.

(c) If it is necessary, remove the control wheel of the nose landing gear, do this task: Nose Landing Gear Steering Control Wheel Removal, TASK 32-51-41-000-801.

SUBTASK 35-12-85-020-002

(7) If it is necessary, disconnect the microphone connector [4] from the communications connection at the back of the mask stowage box assembly [5].

SUBTASK 35-12-85-020-003

(8) Do these steps to disconnect the oxygen supply hose [3]:

WARNING YOU MUST LOOSEN THE OXYGEN SUPPLY HOSE CONNECTION SLOWLY. THE PRESSURE THAT STAYS IN THE LINES CAN COME OUT AT HIGH TEMPERATURE AND CAN CAUSE A FIRE OR EXPLOSION. A FIRE OR EXPLOSION CAN CAUSE INJURY TO PERSONS AND DAMAGE THE AIRPLANE.

(a) Loosen the connection between the oxygen hose connector [2] and the fitting at the back of the mask stowage box assembly [5].

1) Disconnect the oxygen supply hose [3].

WARNING USE ONLY OXYGEN-CLEAN COMPONENTS IN THE OXYGEN SYSTEM. IF YOU DO NOT USE OXYGEN-CLEAN COMPONENTS, A FIRE OR AN EXPLOSION CAN OCCUR. THIS CAN CAUSE DAMAGE TO EQUIPMENT OR INJURIES TO PERSONS.

2) If the installation of the replacement mask stowage box assembly [5] will not occur within 5 minutes, do this task: Installation of Caps on Open Oxygen Lines, TASK 35-00-00-420-801.

NOTE: Oxygen clean fittings come from a sealed package labeled for oxygen system installation. Make sure that you use only oxygen clean fittings. Some fittings used in the oxygen system are the same as fittings in other systems and are not oxygen clean. If it is necessary to clean parts, use the applicable oxygen procedures to clean the parts. This also applies to tube caps or plugs which must be as clean as the installation connections.

SUBTASK 35-12-85-020-004

(9) Remove the mask stowage box assembly [5].

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

FLIGHT COMPARTMENT
(EXAMPLE)

1 IF INSTALLED

FLIGHT COMPARTMENT
(EXAMPLE)

H35329 S0006577580_V3

Oxygen Mask Stowage Box Installation
Figure 401/35-12-85-990-801 (Sheet 1 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

FLIGHT COMPARTMENT
(EXAMPLE)

FLIGHT COMPARTMENT
(EXAMPLE)

K57303 S0006577582_V3

Oxygen Mask Stowage Box Installation
Figure 401/35-12-85-990-801 (Sheet 2 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

MASK STOWAGE BOX
(CAPTAIN'S MASK STOWAGE BOX IS SHOWN, OTHER CREW MEMBER'S MASK STOWAGE BOXES ARE EQUIVALENT)
(EXAMPLE)

A

H35667 S0006577583_V3

Oxygen Mask Stowage Box Installation
Figure 401/35-12-85-990-801 (Sheet 3 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

MASK STOWAGE BOX
(CAPTAIN'S MASK STOWAGE BOX IS SHOWN, OTHER CREW MEMBER'S MASK STOWAGE BOXES ARE EQUIVALENT)

A

H98830 S0006577584_V2

Oxygen Mask Stowage Box Installation
Figure 401/35-12-85-990-801 (Sheet 4 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 35-12-85-400-801

3. **Oxygen Mask Stowage Box Installation**

(Figure 401)

A. **References**

Reference	Title
23-51-00-710-801	Flight Interphone System - Operational Test (P/B 501)
32-51-41-400-802	Nose Landing Gear Steering Control Wheel Installation (P/B 401)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-12-00-700-802	Crew Oxygen Mask-Regulator Test (P/B 501)
35-12-00-800-802	Leak Test the Crew Oxygen System After System Maintenance or Repair (P/B 201)

B. **Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
5	Box assembly	35-12-85-20D-005	LOM 404, 411, 412, 415, 416, 423, 424, 432, 437-439, 441
		35-12-85-20D-105	LOM 402, 406, 407, 420, 427, 428
		35-12-85-20D-155	LOM 422, 425, 433, 434, 440
		35-12-85-20D-230	LOM 442-447, 450-999
		35-12-85-20E-305	LOM 402, 404, 406, 407, 412, 415, 416, 420, 423, 424, 432, 437-439, 441
		35-12-85-20E-455	LOM 411, 422, 425-431, 433, 434, 440
		35-12-85-20E-480	LOM 442-447, 450-999
		35-12-85-20E-505	LOM 402, 404, 406, 407, 412, 415, 416, 420, 423, 424, 432, 437-439, 441
		35-12-85-20E-655	LOM 411, 422, 425-431, 433, 434, 440
		35-12-85-20E-705	LOM 442-447, 450-999
		35-12-85-20F-110	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 423, 424, 432, 437-439, 441, 443, 444, 464
		35-12-85-20F-285	LOM 450-452, 458-460, 465

C. **Location Zones**

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right

ECCN 9E991 BOEING PROPRIETARY - See title page for details

D. Oxygen Mask Stowage Box Installation

SUBTASK 35-12-85-910-002

(1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-12-85-410-001

(2) Go into the flight compartment to the area where you will install the crew oxygen mask stowage box(es).

SUBTASK 35-12-85-860-003

(3) Make sure that the crew oxygen supply line is not pressurized.

SUBTASK 35-12-85-420-001

WARNING USE ONLY OXYGEN-CLEAN COMPONENTS IN THE OXYGEN SYSTEM. IF YOU DO NOT USE OXYGEN-CLEAN COMPONENTS, A FIRE OR AN EXPLOSION CAN OCCUR. THIS CAN CAUSE DAMAGE TO EQUIPMENT OR INJURIES TO PERSONS.

(4) Do these steps to connect the oxygen supply hose [3]:

NOTE: Oxygen clean fittings come from a sealed package labeled for oxygen system installation. Make sure that you use only oxygen clean fittings. Some fittings used in the oxygen system are the same as fittings in other systems and are not oxygen clean. If it is necessary to clean parts, use the applicable oxygen procedures to clean the parts. This also applies to tube caps or plugs which must be as clean as the installation connections.

(a) Remove the protective plugs and caps.

CAUTION YOU MUST USE TWO WRENCHES TO TIGHTEN THE OXYGEN SUPPLY HOSE TO THE OXYGEN MASK STOWAGE BOX FITTING. DAMAGE TO THE OXYGEN SUPPLY HOSE CAN OCCUR IF YOU DO NOT USE WRENCHES TO CONNECT THESE COMPONENTS.

(b) Connect the oxygen supply hose [3] to the fitting.

1) Torque the connection between the oxygen hose connector [2] and the fitting at the back of the mask stowage box assembly [5] to 140 ±5 in-lb (15.8 ±0.6 N·m).

(c) Use a backup wrench to make sure that the fitting does not turn.

SUBTASK 35-12-85-790-001

(5) Do a leak check of the oxygen supply hose [3] (TASK 35-12-00-800-802).

SUBTASK 35-12-85-420-002

(6) If it is necessary, connect the microphone connector [4] to the communications connection at the back of the mask stowage box assembly [5].

SUBTASK 35-12-85-420-003

(7) Do these steps to install the oxygen mask stowage box:

(a) Position the oxygen supply hose [3] and microphone connector [4] in such a way to make sure they will not rub on the structure.

(b) Carefully install the mask stowage box assembly [5].

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(c) Confirm the orientation of the mask stowage box assembly [5] is installed correctly.

NOTE: It is possible to install the captain's and the first officer's mask stowage box assemblies incorrectly, turned 180 degrees from the correct position. In the correct position, the words on the mask stowage box assemblies will be easy to read. The crew and maintenance personnel must find it easy to read the words when they look forward from the captain's and the first officer's seats.

(d) Tighten the four quarter-turn fasteners [1].

(e) If it is removed, install the steering control wheel of the nose landing gear, do this task: Nose Landing Gear Steering Control Wheel Installation, TASK 32-51-41-400-802.

SUBTASK 35-12-85-410-002

(8) If it is necessary to install the mask and regulator in the oxygen mask stowage box assembly [5], do this task: Oxygen Mask/Regulator Installation, TASK 35-12-85-400-802.

SUBTASK 35-12-85-860-004

(9) Remove the safety tags and close these circuit breakers:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
D	22	C00086	AUDIO F/O
D	23	C00083	AUDIO CAPT
D	24	C00085	AUDIO OBS

SUBTASK 35-12-85-710-001

(10) Do this task: Crew Oxygen Mask-Regulator Test, TASK 35-12-00-700-802.

SUBTASK 35-12-85-710-002

(11) To do a check of the boom microphone to make a voice transmission between two flight crew stations, do this task: Flight Interphone System - Operational Test, TASK 23-51-00-710-801.

END OF TASK

TASK 35-12-85-000-802

4. Oxygen Mask/Regulator Removal

(Figure 401, Figure 402)

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-12-00-800-801	Bleed the Crew Oxygen System Prior to System Maintenance or Repair (P/B 201)

B. Consumable Materials

Reference	Description	Specification
G00624	Bag - Plastic, General Purpose	

C. Location Zones

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right

ECCN 9E991 BOEING PROPRIETARY - See title page for details

D. Oxygen Mask/Regulator Removal

SUBTASK 35-12-85-910-003

(1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-12-85-870-002

(2) Do this task: Bleed the Crew Oxygen System Prior to System Maintenance or Repair, TASK 35-12-00-800-801.

SUBTASK 35-12-85-860-005

(3) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
D	22	C00086	AUDIO F/O
D	23	C00083	AUDIO CAPT
D	24	C00085	AUDIO OBS

SUBTASK 35-12-85-010-002

(4) Go into the flight compartment to get access to the crew oxygen masks.

SUBTASK 35-12-85-860-006

(5) Make sure that the crew oxygen supply line is not pressurized.

SUBTASK 35-12-85-020-005

CAUTION

MAKE SURE THAT THE MASK LENS DOES NOT COME IN CONTACT WITH THE RIM OF THE BOX. DAMAGE TO THE MASK LENS CAN OCCUR.

(6) Do these steps to remove the captain's and first officer's oxygen mask assembly [25] from the oxygen mask stowage box [21]:

(a) Open the left and right lid on the applicable oxygen mask stowage box [21].

(b) Disconnect the microphone line at the microphone connection [23].

(c) Disconnect the oxygen supply hose [24] at the oxygen supply hose connection [22].

(d) Attach the oxygen supply hose [24] and microphone line together to make a bundle.

(e) Remove the oxygen mask assembly [25].

SUBTASK 35-12-85-020-006

CAUTION

MAKE SURE THAT THE MASK LENS DOES NOT COME IN CONTACT WITH THE RIM OF THE BOX. DAMAGE TO THE MASK LENS CAN OCCUR.

(7) Remove the first observer's oxygen mask [26], do these steps:

I **LOM 402, 406, 407, 420, 422, 425-431, 433, 434, 440, 442-447, 450-999**

(a) Open the left and right lid on the applicable oxygen mask stowage box.

LOM 404, 411, 412, 415, 416, 423, 424, 432, 437-439, 441

(b) Go to the first observer's oxygen mask stowage cup.

LOM ALL

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(c) Disconnect the microphone line at the microphone connection [27].

(d) Disconnect the oxygen supply hose [29] at the oxygen supply hose connection [28].

(e) Attach the oxygen supply hose [29] and microphone line together to make a bundle.

(f) Remove the first observer's oxygen mask [26].

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 423, 424, 432, 437-439, 441, 443, 444, 450-452, 458-460, 464, 465

SUBTASK 35-12-85-020-007

CAUTION

MAKE SURE THAT THE MASK LENS DOES NOT COME IN CONTACT WITH THE RIM OF THE BOX. DAMAGE TO THE MASK LENS CAN OCCUR.

(8) Remove the second observer's oxygen mask [26], do these steps:

LOM 450-452, 458-460, 465

(a) Open the left and right lid on the applicable oxygen mask stowage box.

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 423, 424, 432, 437-439, 441, 443, 444, 464

(b) Go to the second observer's oxygen mask stowage cup.

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 423, 424, 432, 437-439, 441, 443, 444, 450-452, 458-460, 464, 465

(c) If applicable, disconnect the microphone line at the microphone connection [27].

(d) Disconnect the oxygen supply hose [29] at the oxygen supply hose connection [28].

(e) Attach the oxygen supply hose [29] and microphone line together to make a bundle.

(f) Remove the second observer's oxygen mask [26].

LOM ALL

SUBTASK 35-12-85-480-001

(9) If the installation of a removed oxygen mask assembly will not occur in less than 5 minutes, do these steps:

(a) Seal the opening of the disconnected oxygen supply hose on the oxygen mask assembly.

NOTE: If you discard the oxygen mask assembly, this step is not necessary.

1) Attach a clean plastic bag, G00624, around the opening of the oxygen supply hose connection.

(b) Seal the opening of the oxygen supply hose connection on the related oxygen mask stowage box.

1) Attach clean plastic bag, G00624, around the opening of the oxygen supply hose connection.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

CAPTAIN'S OXYGEN MASK SHOWN DEPLOYED
(FIRST OFFICER'S OXYGEN MASK IS EQUIVALENT)

A

G22127 S0006577589_V2

Crew Oxygen Mask Installation
Figure 402/35-12-85-990-802 (Sheet 1 of 8)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Crew Oxygen Mask Installation
Figure 402/35-12-85-990-802 (Sheet 2 of 8)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Crew Oxygen Mask Installation
Figure 402/35-12-85-990-802 (Sheet 3 of 8)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

FLIGHT COMPARTMENT
(EXAMPLE)

(EXAMPLE)

3067502 S0000828947_V1

Crew Oxygen Mask Installation
Figure 402/35-12-85-990-802 (Sheet 4 of 8)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

FLIGHT COMPARTMENT
(EXAMPLE)

3067505 S0000828946_V1

Crew Oxygen Mask Installation
Figure 402/35-12-85-990-802 (Sheet 5 of 8)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

FLIGHT COMPARTMENT
(EXAMPLE)

(EXAMPLE)

3067511 S0000828948_V1

Crew Oxygen Mask Installation
Figure 402/35-12-85-990-802 (Sheet 6 of 8)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

CREW OXYGEN MASK
(CAPTAIN'S OXYGEN MASK IS SHOWN, OTHER CREW MEMBERS' OXYGEN MASKS ARE EQUIVALENT)

K01720 S0006577606_V3

Crew Oxygen Mask Installation
Figure 402/35-12-85-990-802 (Sheet 7 of 8)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

OXYGEN MASK/REGULATOR
(SHOWN INFLATED)
(EXAMPLE)

D

1971123 S0000378639_V2

Crew Oxygen Mask Installation
Figure 402/35-12-85-990-802 (Sheet 8 of 8)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 35-12-85-400-802

5. Oxygen Mask/Regulator Installation

(Figure 401, Figure 402)

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
23-51-00-710-803	Oxygen Mask Microphone - Operational Test (P/B 501)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-12-00-700-802	Crew Oxygen Mask-Regulator Test (P/B 501)
35-12-00-800-801	Bleed the Crew Oxygen System Prior to System Maintenance or Repair (P/B 201)
35-12-00-800-802	Leak Test the Crew Oxygen System After System Maintenance or Repair (P/B 201)
35-12-85-910-801	Crew Oxygen Mask Stowage (P/B 201)

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
25	Mask assembly	35-12-85-20E-005	LOM ALL
26	Oxygen mask	35-12-85-20D-255	LOM ALL
		35-12-85-20F-005	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 423, 424, 432, 437-439, 441, 443, 444, 450-452, 458-460, 464, 465

C. Location Zones

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right

D. Oxygen Mask/Regulator Installation

SUBTASK 35-12-85-910-004

(1) Obey the safety precautions and general instructions for the oxygen system before you do maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-12-85-410-003

(2) Go into the flight compartment to the area where you will install the oxygen mask/regulator(s).

SUBTASK 35-12-85-860-007

(3) Make sure that the crew oxygen supply line is not pressurized.

> **WARNING**
> OPEN CONNECTIONS SLOWLY. IF YOU OPEN CONNECTIONS QUICKLY, THE TEMPERATURE OF THE OXYGEN CAN INCREASE. THIS CAN CAUSE A FIRE OR AN EXPLOSION. A FIRE OR EXPLOSION CAN CAUSE INJURY TO PERSONS AND DAMAGE TO EQUIPMENT.

(a) Bleed the system before you disconnect or remove the crew oxygen system components (TASK 35-12-00-800-801).

(b) 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.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 35-12-85-080-001

(4) If installed, remove the caps and plugs from the oxygen supply line.

SUBTASK 35-12-85-420-004

WARNING	USE ONLY OXYGEN-CLEAN COMPONENTS IN THE OXYGEN SYSTEM. IF YOU DO NOT USE OXYGEN-CLEAN COMPONENTS, A FIRE OR AN EXPLOSION CAN OCCUR. THIS CAN CAUSE DAMAGE TO EQUIPMENT OR INJURIES TO PERSONS.

CAUTION	MAKE SURE THAT THE MASK LENS DOES NOT COME IN CONTACT WITH THE RIM OF THE BOX. DAMAGE TO THE MASK LENS CAN OCCUR.

(5) Do these steps to connect the captains and first officers oxygen mask assembly [25] in the oxygen mask stowage box [21]:

NOTE: Oxygen clean fittings come from a sealed container with a label for the oxygen system installation. Make sure that you use only oxygen clean fittings. Some fittings used in the oxygen system are the same as fittings in other systems and are not oxygen clean. If it is necessary to clean parts, use the applicable oxygen procedures to clean the parts. This also applies to tube caps or plugs which must be as clean as the installation connections.

(a) Go to the applicable oxygen mask stowage box [21].

(b) Open the left and right covers on the oxygen mask stowage box [21].

(c) Remove the plastic bag from the oxygen supply hose connection on the oxygen mask stowage box [21].

(d) If necessary, remove the plastic bag from the oxygen supply hose on the oxygen mask assembly [25].

(e) Connect the oxygen supply hose [24] at the oxygen supply hose connection [22] in the oxygen mask stowage box [21].

(f) Connect the microphone line at the microphone connection [23] in the oxygen mask stowage box [21].

LOM 426, 429-431

(g) Remove the opaque cover from the face mask lens window, if it is installed.

NOTE: An opaque, (not transparent), protective cover may be installed on the face mask lens by the manufacturer. Make sure that you remove the opaque lens cover before you stow the mask, if it is installed.

LOM 411, 422, 425, 427, 428, 433, 434, 440, 442-447, 450-463, 465-999

(h) Remove the opaque lens cover from the face mask lens, if it is installed (Figure 402).

NOTE: An opaque (not transparent) lens cover may be installed on the face mask lens by the manufacturer. Make sure that you remove the opaque cover before you stow the mask, if the cover is installed.

LOM ALL

(i) Install the crew oxygen mask assembly [25] in the oxygen mask stowage box [21].

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 35-12-85-420-005

WARNING

USE ONLY OXYGEN-CLEAN COMPONENTS IN THE OXYGEN SYSTEM. IF YOU DO NOT USE OXYGEN-CLEAN COMPONENTS, A FIRE OR AN EXPLOSION CAN OCCUR. THIS CAN CAUSE DAMAGE TO EQUIPMENT OR INJURIES TO PERSONS.

CAUTION

MAKE SURE THAT THE MASK LENS DOES NOT COME IN CONTACT WITH THE RIM OF THE BOX. DAMAGE TO THE MASK LENS CAN OCCUR.

(6) Install the first observer's oxygen mask [26], do these steps:

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.

LOM 402, 406, 407, 420, 422, 425-431, 433, 434, 440, 442-447, 450-999

(a) Go to the first observer's oxygen mask stowage box.

LOM 404, 411, 412, 415, 416, 423, 424, 432, 437-439, 441

(b) Go to the first observer's oxygen mask stowage cup.

LOM 402, 406, 407, 420, 422, 425-431, 433, 434, 440, 442-447, 450-999

(c) Open the left and right covers on the oxygen mask stowage box.

LOM ALL

(d) Connect the microphone line at the microphone connection [27].

(e) Remove the plastic bag from the oxygen supply hose connection [28].

(f) If necessary, remove the plastic bag from the oxygen supply hose [29] on the oxygen mask [26].

(g) Connect the oxygen supply hose [29] at the oxygen supply hose connection [28].

(h) Install the first observer's oxygen mask [26].

LOM 402, 406, 407, 420, 422, 425-431, 433, 434, 440, 442-447, 450-999

(i) Close the left and right covers on the oxygen mask stowage box.

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 423, 424, 432, 437-439, 441, 443, 444, 450-452, 458-460, 464, 465

SUBTASK 35-12-85-420-006

WARNING

USE ONLY OXYGEN-CLEAN COMPONENTS IN THE OXYGEN SYSTEM. IF YOU DO NOT USE OXYGEN-CLEAN COMPONENTS, A FIRE OR AN EXPLOSION CAN OCCUR. THIS CAN CAUSE DAMAGE TO EQUIPMENT OR INJURIES TO PERSONS.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 423, 424, 432, 437-439, 441, 443, 444, 450-452, 458-460, 464, 465 (Continued)

(WARNING PRECEDES)

> **CAUTION**
> MAKE SURE THAT THE MASK LENS DOES NOT COME IN CONTACT WITH THE RIM OF THE BOX. DAMAGE TO THE MASK LENS CAN OCCUR.

(7) Install the second observer's oxygen mask [26], do these steps:

NOTE: Oxygen clean fittings come from a sealed container and have 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.

LOM 450-452, 458-460, 465

(a) Go to the second observer's oxygen mask stowage box.

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 423, 424, 432, 437-439, 441, 443, 444, 464

(b) Go to the second observer's oxygen mask stowage cup.

LOM 450-452, 458-460, 465

(c) Open the left and right covers on the oxygen mask stowage box.

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 423, 424, 432, 437-439, 441, 443, 444, 450-452, 458-460, 464, 465

(d) If applicable, connect the microphone line at the microphone connection [27].

(e) Remove the plastic bag from the oxygen supply hose connection [28].

(f) If necessary, remove the plastic bag from the oxygen supply hose [29] on the oxygen mask [26].

(g) Connect the oxygen supply hose [29] at the oxygen supply hose connection [28].

(h) Install the second observer's oxygen mask [26].

LOM 450-452, 458-460, 465

(i) Close the left and right covers on the oxygen mask stowage box.

LOM ALL

SUBTASK 35-12-85-860-008

(8) Remove the safety tags and close these circuit breakers:

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
D	22	C00086	AUDIO F/O
D	23	C00083	AUDIO CAPT
D	24	C00085	AUDIO OBS

SUBTASK 35-12-85-790-002

(9) Do a system operational check of the oxygen supply hose connection [22] and oxygen supply hose connection [28] (TASK 35-12-00-800-802).

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 35-12-85-710-003

(10) Do these operational tests to make sure that the crew oxygen system operates satisfactorily:

(a) For an operational test of the Crew Oxygen System, do this task: Crew Oxygen Mask-Regulator Test, TASK 35-12-00-700-802.

(b) For each mask that you installed, do this task: Oxygen Mask Microphone - Operational Test, TASK 23-51-00-710-803.

NOTE: It is not necessary to do the test on the masks at crew stations without microphone connections.

NOTE: If the second observer's oxygen mask was replaced, Oxygen Mask Microphone - Operational Test, TASK 23-51-00-710-803 is not required.

SUBTASK 35-12-85-420-007

(11) Do this task: Crew Oxygen Mask Stowage, TASK 35-12-85-910-801.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Crew Oxygen Mask Cleaning

1. General

A. This procedure contains these tasks:

(1) Oxygen Mask Cleaning

B. This procedure cleans one oxygen mask/regulator assembly. Do the procedure again to clean more mask/regulator assemblies.

TASK 35-12-85-100-801

2. Crew Oxygen Mask Cleaning

A. General

(1) This task gives the steps on how to clean a crew oxygen mask.

B. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-12-85-000-802	Oxygen Mask/Regulator Removal (P/B 401)
35-12-85-400-802	Oxygen Mask/Regulator Installation (P/B 401)

C. Tools/Equipment

Reference	Description
STD-206	Container - Plastic, 1 U.S.Gal.

D. Consumable Materials

Reference	Description	Specification
B00130	Alcohol - Isopropyl	TT-I-735
B50003	Solvent - Cleaning - HFE 71DE	BAC5402
B50201	Wipe - Alcohol (Isopropyl Alcohol)	
B50203	Polish - Plastic, Novus 1 Plastic Clean and Shine	
B50204	Polish - Plastic, Novus 2 Fine Scratch Remover	
B50205	Cleaner - Janes Industrial Products LLC DOT 111/113 Cleaner	
B50259	Cleaner - SAN50 Disinfectant, single use sachet	
B50355	Detergent - Assert Lemon	
B50356	Detergent - M36	
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	AMS3819 Class 1 Grade A or B Form 1 (Supersede BMS15-5 CL A)
G01043	Cloth - Lint-free	
G01306	Gloves - Lint-free	
G02418	Water - De-ionized	
G50139	Water - Distilled	
G50140	Gloves - Protective, Latex or Nitrile	
G50512	polyethylene bag	

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(Continued)

Reference	Description	Specification
G51116	Cloth - Zodiac Aerospace SAN40-2 Lens Cleaning Cloth (formerly SAN40)	
G51117	Film - Zodiac Aerospace SAN60-1 Protection Film (formerly SAN60)	

E. Location Zones

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right

F. Prepare for the Cleaning

SUBTASK 35-12-85-910-017

(1) Do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-12-85-910-018

(2) Wear clean, protective gloves, G50140, or lint-free gloves, G01306, when you do maintenance of the oxygen system.

NOTE: Only use protective gloves, G50140, to clean the oxygen system and lint-free gloves, G01306, for general maintenance of the oxygen system.

SUBTASK 35-12-85-020-013

(3) Remove the oxygen mask from its stowage box (TASK 35-12-85-000-802).

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-425, 427, 428, 432-434, 437-447, 450-999

G. Crew Oxygen Mask Cleaning

LOM 411, 422, 425, 427, 428, 433, 434, 440, 442-447, 450-463, 465-999

SUBTASK 35-12-85-420-035

(1) Put the SAN60-1 protection film, G51117, on the window internally and externally to prevent the damage of the anti-mist coat.

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-425, 427, 428, 432-434, 437-447, 450-999

SUBTASK 35-12-85-160-004

WARNING

DO NOT USE OIL OR OTHER PETROLEUM BASE LUBRICANTS ON OXYGEN EQUIPMENT. IT WILL CREATE A DANGEROUS FIRE HAZARD.

CAUTION

USE ONLY THE SPECIFIED SOLUTIONS IN THE SPECIFIED CONCENTRATIONS. IF YOU USE OTHER SOLUTIONS OR CONCENTRATIONS, DAMAGE TO EQUIPMENT CAN OCCUR.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-425, 427, 428, 432-434, 437-447, 450-999 (Continued)

(CAUTION PRECEDES)

> **CAUTION** DO NOT USE TOO MUCH FLUID TO SOAK THE CREW OXYGEN MASK. USE ONLY A SMALL QUANTITY OF THE FLUID TO CLEAN IT. DAMAGE TO THE MASK CAN OCCUR.

LOM 411, 422, 425, 427, 428, 433, 434, 440, 442-447, 450-463, 465-999

> **CAUTION** DO NOT CLEAN THE MASK WINDOW WHEN THERE IS MOISTURE OR WATER ON ITS SURFACES. DAMAGE TO THE ANTI-MIST COAT CAN OCCUR.

> **CAUTION** DO NOT LET DETERGENTS AND DISINFECTANTS GO ON THE WINDOW SURFACES. IF YOU DO NOT OBEY, DAMAGE CAN OCCUR TO WINDOW SURFACES.

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-425, 427, 428, 432-434, 437-447, 450-999

(2) Clean the crew oxygen mask.

(a) Lightly moisten a cotton wiper, G00034, or lint-free cloth, G01043, with the cleaning solution.

1) Prepare the following mixture for the detergent solution:

a) Mix 30 ml/liter of detergent, B50356, or 8 ml/10 liters to 12ml/10 liters of detergent, B50355, and hot water.

(b) Clean all areas of the mask face piece and the nose cup assembly.

(c) Remove the detergent solution with a cotton wiper, G00034, or lint-free cloth, G01043, moistened with pure water.

(d) Let the oxygen mask fully dry in the air or blow dry, clean air without oil.

(e) Apply antiseptic SAN50 disinfectant cleaner, B50259, on the internal surfaces of the mask face piece.

1) Clean the removed parts.

2) Clean the new parts.

(f) If it is necessary, clean the microphone with a cotton wiper, G00034, or lint-free cloth, G01043, moistened with isopropyl alcohol, B00130.

SUBTASK 35-12-85-160-005

> **WARNING** STRICTLY OBEY THE PROCEDURES WHEN YOU DO WORK ON THE OXYGEN SYSTEM. DO NOT USE OIL, GREASE OR OTHER LUBRICANTS MADE FROM PETROL IN THE AREA OF OXYGEN SYSTEM. YOU CAN CAUSE A FIRE OR EXPLOSION.

> **CAUTION** MAKE SURE THAT YOUR HANDS ARE CLEAN BEFORE YOU TOUCH THE REGULATOR. USE APPROVED GREASES AND CLEANERS. IF YOU USE UNAPPROVED GREASES AND CLEANERS, IT CAN CAUSE DAMAGE TO THE REGULATOR.

(3) If necessary, do these steps to clean the parts of the regulator:

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(a) Carefully clean the metal parts.

1) To clean the removed metal parts, use one of these methods:

a) Method One.

<1> Use the HFE 71DE solvent, B50003, or alcohol wipes, B50201, to remove all external grease, oil or other contaminants.

<2> Flush with clear hot water.

b) Method Two.

<1> Clean the metal parts with the HFE 71DE solvent, B50003, alcohol wipes, B50201, or equivalent products.

<2> Use a vapor degreasing method or ultra sonic method with the HFE 71DE solvent, B50003, or alcohol wipes, B50201.

<3> Put each part in the temperature controlled oven at 140 +18 / -0°F (60 +10 / -0°C) to hot dry for one hour or blow dry, clean air without oil.

<4> Put each component in the polyethylene bag, G50512, or the plastic box until you install the equipment.

2) Clean the new metal parts.

a) Clean the metallic parts with HFE 71DE solvent, B50003, or alcohol wipes, B50201, or equivalent products.

b) Use a vapor degreasing method or ultra sonic method with the HFE 71DE solvent, B50003.

c) Put each part in the temperature controlled oven at 140 +18 / -0°F (60 +10 / -0°C) to hot dry for one hour or blow dry, clean air without oil.

d) Put each part in the polyethylene bag, G50512, or the plastic box until you install the equipment.

(b) Carefully clean the plastic parts.

1) To clean the removed plastic parts, use one of these methods:

a) Method One.

<1> Use the HFE 71DE solvent, B50003, or alcohol wipes, B50201, to remove all external traces of grease, oil or other contaminants.

<2> Flush with clear hot water.

b) Method Two.

<1> Flush with clear water for one or two minutes.

<2> Fully flush in de-ionized water, G02418, or distilled water, G50139, for two minutes.

<3> Put each part in the temperature controlled oven at 122°F (50°C) - 140°F (60°C) to hot dry or blow dry, clean air without oil.

<4> Put each part in the polyethylene bag, G50512, or the plastic box until you install the equipment.

2) Clean the new parts.

a) Clean new plastic parts with the detergent solution.

<1> Prepare the following mixture for the detergent solution:

ECCN 9E991 BOEING PROPRIETARY - See title page for details

<a> Mix 30ml/liter of detergent, B50356, or 12ml/10 liters of detergent, B50355, and hot water.

b) Use an ultra sonic method with the hot detergent solution (122°F (50°C) - 140°F (60°C)).

c) Flush with clear water for one or two minutes.

d) Fully flush in de-ionized water, G02418, or distilled water, G50139, for two minutes.

e) Put each part in the temperature controlled oven at 122°F (50°C) to 140°F (60°C) to hot dry for one hour or blow dry, clean air without oil.

f) Put each part in the polyethylene bag, G50512, or the plastic box until you install the equipment.

CAUTION DO NOT LET THE SOLUTION TO FLOW INTO THE CIRCUIT. PUT A CAP ON THE ORIFICES TO PREVENT DAMAGE TO THE CIRCUIT. IF YOU DO NOT OBEY, DAMAGE TO THE CIRCUIT CAN OCCUR.

(c) Carefully clean the main casing.

1) Remove main casing parts.

a) Clean all the areas of the main casing with the cotton wiper, G00034, or lint-free cloth, G01043, moistened with isopropyl alcohol, B00130.

b) Let the main casing fully dry in the air or blow dry, clean air without oil.

c) Put the main casing in the polyethylene bag, G50512, or the plastic box until you install the equipment.

2) Is not applicable to clean new parts.

LOM 411, 422, 425, 427, 428, 433, 434, 440, 442-447, 450-463, 465-999

SUBTASK 35-12-85-020-015

(4) Remove the SAN60-1 protection film, G51117, from the mask window.

SUBTASK 35-12-85-160-006

(5) If necessary, clean the window.

(a) Carefully clean all the window surfaces with the SAN40-2 lens cleaning cloth, G51116.

LOM 426, 429-431

H. Crew Oxygen Mask Cleaning

SUBTASK 35-12-85-160-007

(1) Mix a solution of 1 part of DOT 111/113 cleaner, B50205, and 100 parts of de-ionized water, G02418, or distilled water, G50139, in a 1 gal. plastic container, STD-206.

SUBTASK 35-12-85-160-008

WARNING DO NOT USE OIL OR OTHER PETROLEUM BASE LUBRICANTS ON OXYGEN EQUIPMENT. IT WILL CREATE A DANGEROUS FIRE HAZARD.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 426, 429-431 (Continued)

(WARNING PRECEDES)

> **CAUTION** USE ONLY THE SPECIFIED SOLUTIONS IN THE SPECIFIED CONCENTRATIONS. IF YOU USE OTHER SOLUTIONS OR CONCENTRATIONS, DAMAGE TO EQUIPMENT CAN OCCUR.

> **CAUTION** DO NOT USE TOO MUCH FLUID TO SOAK THE CREW OXYGEN MASK. USE ONLY A SMALL QUANTITY OF THE FLUID TO CLEAN IT. DAMAGE TO THE MASK CAN OCCUR.

> **CAUTION** DO NOT CLEAN THE MASK WINDOW WHEN THERE IS MOISTURE OR WATER ON ITS SURFACES. DAMAGE TO THE ANTI-MIST COAT CAN OCCUR.

> **CAUTION** DO NOT LET DETERGENTS AND DISINFECTANTS GO ON THE WINDOW SURFACES. IF YOU DO NOT OBEY, DAMAGE CAN OCCUR TO WINDOW SURFACES.

(2) Clean the face mask surfaces - (Black).

(a) Lightly moisten a cotton wiper, G00034, or lint-free cloth, G01043, with the cleaning solution.

(b) Twist the cotton wiper, G00034, or lint-free cloth, G01043, to remove the excess cleaning solution.

(c) Clean the black face mask surfaces with wet cloth.

(d) Dry the black face mask surfaces with a cotton wiper, G00034, or lint-free cloth, G01043.

(e) Lightly moisten a cotton wiper, G00034, or lint-free cloth, G01043, with alcohol, B00130.

(f) Wipe the black face seal surfaces with wet cloth.

(g) Let the oxygen mask fully dry in the air or blow dry, clean air without oil.

SUBTASK 35-12-85-160-009

(3) If installed, do these steps to clean the lens of the smoke goggle or mask window of the oxygen mask as follows:

(a) Lightly moisten the lint-free cloth, G01043, with alcohol, B00130.

> **CAUTION** DO NOT RUB THE LENS OR MASK WINDOW AFTER YOU APPLY THE ALCOHOL. USE ONLY MINIMUM PRESSURE NECESSARY TO APPLY THE ALCOHOL. IF YOU DO NOT OBEY, SCRATCHES ON THE SURFACES OF THE LENS OR MASK WINDOW CAN OCCUR.

(b) Clean the lens or mask window externally and internally with the lint-free cloth, G01043, and the alcohol, B00130.

NOTE: Use 0.5 oz (14.2 g) of alcohol, B00130, for each mask.

NOTE: Always use a clean section of the lint-free cloth, G01043, and apply new alcohol each time you wipe the surface of the lens or window. This will prevent the contamination of the lens again with anything dissolved by alcohol.

(c) Use minimum pressure to wipe and let the alcohol clean the lens or mask window.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 426, 429-431 (Continued)

(d) Let the lens or mask window fully air dry before proceeding to the next step.

(e) Apply the polish to the lens as follows:

NOTE: This puts an anti-fog and smudge resistance to the lens.

1) Spray on Novus 1 polish, B50203, or wet the surface the lens or mask window fully.

2) Buff or polish the surface with a dry lint-free cloth, G01043.

(f) Examine the lens for scuffs and scratches and if necessary do these steps.

1) Polish the effected area with the Novus 2 polish, B50204, and a lint-free cloth, G01043, to remove the scratches and abrasions.

a) If it is necessary, repeat the steps to clean the lens externally and internally.

b) Apply the Novus 1 polish, B50203, to the lens with the lint-free cloth, G01043.

c) Buff or polish the surface with a dry lint-free cloth, G01043.

2) Replace the mask if the scuffs or scratches cannot be removed.

LOM ALL

I. Put the Airplane Back to Its Usual Condition

SUBTASK 35-12-85-410-018

(1) Install the oxygen mask and regulator assembly (TASK 35-12-85-400-802).

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

MASK ASSEMBLY
(EXAMPLE)
(INFLATED)

2919809 S0000703114_V1

Crew Oxygen Mask Maintenance Practices
Figure 701/35-12-85-990-809 (Sheet 1 of 3)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

MASK ASSEMBLY
(EXAMPLE)
(INFLATED)

2919811 S0000703115_V1

Crew Oxygen Mask Maintenance Practices
Figure 701/35-12-85-990-809 (Sheet 2 of 3)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

**MASK ASSEMBLY
(EXAMPLE)
(INFLATED)**

2919812 S0000703116_V1

**Crew Oxygen Mask Maintenance Practices
Figure 701/35-12-85-990-809 (Sheet 3 of 3)**

ECCN 9E991 BOEING PROPRIETARY - See title page for details

PASSENGER OXYGEN SYSTEM - ADJUSTMENT/TEST

1. **General**
   A. This procedure contains scheduled maintenance task data.
   B. This procedure contains these tasks:
      (1) Automatic Actuation Functional Test.
      (2) Manual Deploy Operational Test.
      (3) Visual Inspection of the Heat-Sensitive Band On Oxygen Generator.
   C. This procedure tests the operation of the passenger oxygen system. The procedure tests the automatic (pressure switch) and manual (flight compartment switch) activation of the door latch actuators found on each oxygen box door.

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426

   D. The door test stops, found in each oxygen box door, must be in the test position before you begin this test. The oxygen box doors will open and the oxygen masks will deploy during the functional test if the test stop is not in the test stop position.

LOM 427-434, 437-447, 450-999

   E. You must install the door test stop, or the masking tape, to the door of each PSU before you begin the test. The PSU oxygen box doors will open and the oxygen masks will go out of the oxygen boxes during the functional test if you do not install the door test stop or the masking tape.
   F. The door test stop of each lavatory and attendant oxygen box must be in the test position before you begin this test. The oxygen box doors will open and the oxygen masks will go out of the oxygen boxes during the functional test if the test stop is not in the test stop position.

LOM ALL

TASK 35-22-00-700-801

2. **Passenger Oxygen System - Automatic Actuation Functional Test**

   NOTE: This procedure is a scheduled maintenance task.

   A. References

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-41-000-801	Altitude Pressure Switch - Removal (S813) (P/B 401)
35-22-41-400-801	Altitude Pressure Switch - Installation (S813) (P/B 401)

   B. Tools/Equipment

   NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Reference	Description
COM-1914	Test Set - Air Data Model FLMTS (Flight Line Maintenance) Part #: ADSE 650 Supplier: 3BSK6 Part #: ADTS2000 Supplier: 52892 Part #: ADTS3350ER Supplier: 52892 Part #: ADTS405MKII Supplier: U0427 Part #: ADTS530 Supplier: U0427 Part #: ADTS552F Supplier: U0427 Part #: ADTS553F Supplier: U0427 Part #: ADTS554F Supplier: U0427 Part #: D60340MK Supplier: K1474 Part #: DPS1000 Supplier: 21844 Part #: MODEL 6300 Supplier: 0RDZ5 Part #: MPS34C Supplier: 48RQ2 Part #: MPS43B Supplier: A0197 Part #: MPS45 Supplier: 48RQ2 Part #: MPS49 Supplier: 48RQ2 Part #: TES9463 Supplier: 88277 Opt Part #: 01-0987-00 Supplier: 41364 Opt Part #: 18910480000 Supplier: 89944 Opt Part #: 18910920000 Supplier: 89944 Opt Part #: ADTS405F Supplier: U0427 Opt Part #: ADTS505 Supplier: U0427 Opt Part #: D60302 Supplier: K1474 Opt Part #: D60340 Supplier: K1474 Opt Part #: D60383 Supplier: K1474 Opt Part #: DPS350 Supplier: 21844 Opt Part #: DPS450 Supplier: 21844 Opt Part #: DPS500 Supplier: 21844 Opt Part #: MPS31C Supplier: 48RQ2 Opt Part #: MPS43 Supplier: A0197
COM-1931	Pump - Vacuum, Portable, Standard Duty Part #: 2546B-01 Supplier: 0NCC5 Part #: 2546C-01 Supplier: 0NCC5 Part #: 2546C-02 Supplier: 0NCC5 Opt Part #: 2510F Supplier: 21844 Opt Part #: 2545B-01 Supplier: 0NCC5 Opt Part #: 2545C-02 Supplier: 0NCC5
COM-14099	Test Stop Key Assy Part #: 70698 Supplier: 16115
STD-1318	Hose - Vacuum, 1/4 Inch Inside Diameter (ID) Plastic Tube (Tygon-B44-30PT, Uniflex 650 or Similar)
STD-1319	Connector - 1/4 Inch ID Tee, Plastic, Vacuum Hose (to Attach Vacuum Gauge to Vacuum Hose)
STD-1320	Gauge - Vacuum
STD-1321	Valve - Shutoff
STD-3900	Adapter - Straight, Tube to Hose (meets AS5180D04 specification)

C. Consumable Materials

Reference	Description	Specification
G02311	Tape - Pressure Sensitive Adhesive, for Masking During Paint Stripping Operations	AMS-T-23397

ECCN 9E991 BOEING PROPRIETARY - See title page for details

D. Location Zones

Zone	Area
118	Electrical and Electronics Compartment - Right
200	Upper Half of Fuselage
212	Flight Compartment - Right

E. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

F. Prepare for the Test

SUBTASK 35-22-00-910-001

(1) Read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance (TASK 35-00-00-910-801).

SUBTASK 35-22-00-860-001

(2) Make sure that the electrical power is on (TASK 24-22-00-860-811).

SUBTASK 35-22-00-860-002

(3) Make sure that these circuit breakers are closed:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT
LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-999			
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

Captain's Lighting Module, P41

Row	Col	Number	Name
LOM ALL			
		C1	5.8V AC SEC MCP PANEL LIGHTING

F/O Electrical System Panel, P6-3

Row	Col	Number	Name
B	12	C00132	MASTER CAUTION ANNUNCIATOR BUS 1
B	13	C00131	MASTER CAUTION ANNUNCIATOR BAT
D	11	C00133	INDICATOR MASTER DIM DIM/TST CONT
D	12	C00310	INDICATOR MASTER DIM BAT
D	13	C00311	INDICATOR MASTER DIM BUS 1
D	14	C00312	INDICATOR MASTER DIM BUS 2
E	11	C00313	INDICATOR MASTER DIM SECT 1
E	12	C00314	INDICATOR MASTER DIM SECT 2
E	13	C00315	INDICATOR MASTER DIM SECT 3
E	14	C00316	INDICATOR MASTER DIM SECT 4
F	11	C00317	INDICATOR MASTER DIM SECT 5
F	12	C00318	INDICATOR MASTER DIM SECT 6

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 35-22-00-010-013

(4) To get access to the P92 panel, open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 35-22-00-860-098

WARNING

WHEN YOU OPEN THE P91 AND P92 PANELS, MAKE SURE THAT THE OUTER DOOR STAYS AS OPEN AS POSSIBLE. IF THE OUTER DOOR TURNS IN, THE ATTACHED DOOR COMPONENTS COULD TOUCH THE INNER DOOR COMPONENTS. THIS CAN CAUSE AN ARC CONDITION WHEN YOU SUPPLY POWER. IF YOU DO NOT OBEY, DAMAGE TO EQUIPMENT AND INJURY TO PERSONNEL CAN OCCUR.

WARNING

DO NOT TOUCH THE CONDUCTORS IN THE P91 AND P92 PANELS. BE CAREFUL WHEN YOU GET ACCESS TO THE CIRCUIT BREAKERS ON THE INNER SIDE OF THE P91 AND P92 PANELS (ROW F). IF IT IS POSSIBLE, REMOVE AIRPLANE ELECTRICAL POWER FIRST. THE P91 AND P92 PANELS HAVE HIGH VOLTAGES AND CURRENTS. ELECTRICAL VOLTAGE AND CURRENT CAN KILL YOU OR CAUSE INJURIES.

(5) Make sure that this circuit breaker is closed:

Power Distribution Panel Number 2, P92

Row	Col	Number	Name
F	5	C03012	XFR BUS 2 SECT 2

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426

SUBTASK 35-22-00-860-003

(6) Do these steps to prepare the door test stops on each of the oxygen mask doors (Figure 503):

NOTE: Oxygen mask doors are installed on these service units: Attendant Service Unit (ASU), Lavatory Service Unit (LSU), and Passenger Service Unit (PSU).

(a) Make sure that all of the oxygen mask doors are closed.

(b) Use a small flat tool to push the test stop button down.

(c) Hold the test stop button and pull it down fully.

(d) Turn the test stop button counterclockwise 90 degrees to the test stop position.

(e) Do these steps again for the remaining oxygen mask doors on these service units:

1) PSUs

2) ASUs

3) LSUs.

(f) Make sure that each test stop button is in the test stop position.

NOTE: If the test stop is not in the test position, the oxygen door will open and the masks will deploy during the test.

LOM 427-434, 437-447, 450-999

SUBTASK 35-22-00-860-029

(7) Do these steps to prepare the test stops on the oxygen box doors of each ASU and LSU (Figure 504):

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 427-434, 437-447, 450-999 (Continued)

(a) Pull the test stop button out to the limit of travel.

LOM 427-434, 437-447, 450-999; AIRPLANES WITH OXYGEN BOX ASSEMBLY P/N 417N3810-XXX, 737-35-1146-XX

(b) Turn the test stop button counterclockwise 90 degrees to the test stop position.

LOM 427-434, 437-447, 450-999; AIRPLANES WITH OXYGEN BOX ASSEMBLY P/N 4576001-XXX

(c) Push the side of the test stop button until the button moves to the test stop position.

LOM 427-434, 437-447, 450-999

(d) Make sure that each test stop button is in the test stop position.

NOTE: If the test stop button is not in the test stop position, the oxygen box door will open. This will cause the oxygen masks to deploy during the functional test.

SUBTASK 35-22-00-860-030

(8) Do these steps to prepare the oxygen mask doors of the PSUs in the overhead bins of the passenger cabin:

(a) Install test stop key assembly, COM-14099, or masking tape, G02311, to the oxygen mask door of each PSU.

1) If you use test stop key assembly, COM-14099, make sure that the tool is installed through the slot in the door.

NOTE: The tool must fully engage the latch of the door latch actuator.

2) If you use masking tape, G02311, install it to let the door open 1.0 ±0.5 in. (2.5 ±1.3 cm), but not fully open.

LOM ALL

SUBTASK 35-22-00-860-004

(9) Do these steps to clear the Master Caution System:

(a) On the P7 light shield, push one of the two MASTER CAUTION lights.

(b) Make sure that the two MASTER CAUTION annunciators do not stay on.

(c) Make sure that the OVERHEAD annunciation on the right master caution display does not come on.

G. Automatic Actuation Functional Test

SUBTASK 35-22-00-860-005

(1) Open this circuit breaker and install safety tag:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-999			
F	9	C00784	OXYGEN PASS RIGHT

LOM ALL

SUBTASK 35-22-00-480-001

(2) Do these steps to install the test equipment on the altitude pressure switch, S813, (Figure 502):

(a) Go to the J23 BOX found to the left of the door in the main electronics compartment.

(b) If it is installed, remove the dust cover from the altitude pressure switch, S813.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(c) Find the altitude pressure switch fitting through the hole in the forward side of the J23 BOX.

(d) If it is necessary for a better visibility, remove the cover from the J23 BOX.

(e) Connect these components to the altitude pressure switch:

NOTE: The altitude pressure switch can be moved from its position a small distance to attach the test equipment.

1) adapter, STD-3900
2) hose, STD-1318
3) connector, STD-1319
4) gauge, STD-1320
5) shutoff valve, STD-1321
6) vacuum pump, COM-1931
7) air data model test set, COM-1914.

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-460, 464-999

SUBTASK 35-22-00-720-001

CAUTION DO NOT APPLY A POSITIVE PRESSURE ON THE ALTITUDE PRESSURE SWITCH. IF YOU APPLY POSITIVE PRESSURE, IT WILL CAUSE DAMAGE TO THE ALTITUDE PRESSURE SWITCH.

(3) Slowly decrease the pressure to the S813 altitude pressure switch to simulate cabin altitude between 17.8 in. (452.8 mm) and 17.3 in. (440.2 mm) mercury absolute (14,000 ±350 ft (4267 ±107 m) cabin altitude).

NOTE: A 8.6 ±0.1 psia (17.5 ±0.2 in/Hg) (-6.1 ±0.1 psig (-12.4 ±0.2 in/Hg)) pressure is equivalent to an altitude of 14,000 ±350 ft (4267 ±107 m).

SUBTASK 35-22-00-720-002

(4) When the doors of the left side oxygen boxes release against the test stops, examine the test gage and make sure that the test gage shows between 17.8 in. (452.8 mm) and 17.3 in. (440.2 mm) mercury absolute 14,000 ±350 ft (4267 ±107 m) cabin altitude.

(a) If the doors of the oxygen boxes do not release at or below 17.3 in. (440.2 mm) mercury absolute 14,350 ft (4374 m) cabin altitude, the S813 switch is defective, do these tasks to replace the S813 altitude pressure switch:

- Altitude Pressure Switch - Removal (S813), TASK 35-22-41-000-801
- Altitude Pressure Switch - Installation (S813), TASK 35-22-41-400-801.

LOM 461-463

SUBTASK 35-22-00-720-042

CAUTION DO NOT APPLY A POSITIVE PRESSURE ON THE ALTITUDE PRESSURE SWITCH. IF YOU APPLY POSITIVE PRESSURE, IT WILL CAUSE DAMAGE TO THE ALTITUDE PRESSURE SWITCH.

(5) Slowly decrease the pressure to the S813 altitude pressure switch to simulate a cabin altitude between 17.4 in. (441.1 mm) and 16.9 in. (428.9 mm) mercury absolute (14,650 ±350 ft (4465 ±107 m) cabin altitude).

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 461-463 (Continued)

SUBTASK 35-22-00-720-043

(6) When the doors of the left side oxygen boxes release against the test stops, examine the test gage and make sure that the test gage shows between 17.4 in. (441.1 mm) and 16.9 in. (428.9 mm) mercury absolute (14,650 ±350 ft (4465 ±107 m) feet cabin altitude).

(a) If the doors of the oxygen boxes do not release at or below 16.9 in. (428.9 mm) mercury absolute (15,000 ft (4572 m) cabin altitude), the S813 switch is defective, do these tasks to replace the S813 altitude pressure switch:

- Altitude Pressure Switch - Removal (S813), TASK 35-22-41-000-801
- Altitude Pressure Switch - Installation (S813), TASK 35-22-41-400-801.

LOM ALL

SUBTASK 35-22-00-720-003

(7) Make sure that the PASS OXY ON light (on the oxygen system module, P5-14 overhead panel) comes on (Figure 501).

SUBTASK 35-22-00-720-004

(8) Make sure that the two MASTER CAUTION lights and OVERHEAD annunciation on the master caution display come on.

SUBTASK 35-22-00-720-005

(9) Push the LIGHTS switch, on the P1-3 panel, to the DIM position.

SUBTASK 35-22-00-720-006

(10) Make sure that the PASS OXY ON light is on and light is dim.

SUBTASK 35-22-00-720-007

(11) Push the LIGHTS switch to the BRT (bright) position.

SUBTASK 35-22-00-720-008

(12) Make sure that the PASS OXY ON light is on and light is bright.

SUBTASK 35-22-00-720-009

(13) Push one of the two MASTER CAUTION lights to reset the system.

SUBTASK 35-22-00-720-010

(14) Make sure that all of the annunciations on the master caution displays go off.

SUBTASK 35-22-00-720-011

(15) Push one of the two master caution displays.

NOTE: Other lights on the master caution annunciator can come on, but maintenance is not necessary.

SUBTASK 35-22-00-720-012

(16) Make sure that the two MASTER CAUTION lights and OVERHEAD annunciation on the master caution display come on.

SUBTASK 35-22-00-720-013

(17) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND

LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-999

F	10	C00783	OXYGEN PASS LEFT

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM ALL

SUBTASK 35-22-00-720-014

(18) Make sure that the PASS OXY ON light does not come on.

NOTE: The two MASTER CAUTION lights will extinguish, if no other master caution annunciators come on.

SUBTASK 35-22-00-720-017

(19) Remove the safety tags and close these circuit breakers:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND

LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-999

F	9	C00784	OXYGEN PASS RIGHT

LOM ALL

NOTE: The OXYGEN PASS RIGHT (C00784) circuit breaker must be closed within 5 seconds after closing the OXYGEN IND (C00156) circuit breaker. The electrical power for releasing the oxygen box doors is turned off five seconds later after closing the OXY IND (C00156) circuit breaker.

SUBTASK 35-22-00-720-018

(20) Make sure that the PASS OXY ON light, on the P5-14 panel, comes on.

SUBTASK 35-22-00-720-019

(21) Make sure that all the oxygen box doors on the right side of the airplane are released against the test stops.

SUBTASK 35-22-00-720-020

(22) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND

LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-999

F	9	C00784	OXYGEN PASS RIGHT

LOM ALL

SUBTASK 35-22-00-720-021

(23) Make sure that the PASS OXY ON light, on the P5-14 panel, does not show.

SUBTASK 35-22-00-720-022

CAUTION

DO NOT RELEASE THE VACUUM (PRESSURE) TOO QUICKLY AND SUDDENLY. IF YOU DO NOT OBEY, DAMAGE TO THE ALTITUDE PRESSURE SWITCH CAN OCCUR.

(24) Slowly release the vacuum (pressure) to the altitude pressure switch, S813.

SUBTASK 35-22-00-080-001

(25) Do these steps to remove the test equipment from the altitude pressure switch, S813:

(a) Remove the test equipment.

(b) If it is necessary, install the two screws that hold the altitude pressure switch, S813, to the J23 BOX.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(c) If it is removed, install the cover to the J23 BOX with the screws.

(d) If it is removed, install the dust cover to the altitude pressure switch, S813.

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426

SUBTASK 35-22-00-710-011

(26) Do these steps to close the oxygen box doors on all of the service units:

NOTE: Oxygen mask doors are installed on these service units: ASU, LSU, and PSU.

(a) Hold the oxygen box door in the closed position.

(b) Turn the test stop button 90 degrees clockwise.

(c) Push the test stop button up until you hear the sound of a click.

NOTE: The sound of the click shows that the actuator is set.

(d) Release the test stop button.

(e) Close and latch the mask box door.

NOTE: The latch will usually make a "click" noise when it fully engages.

1) Use a small flat tool to push the door latch lever up.

NOTE: The door latch lever is forward of the test stop button.

2) Push the door closed.

(f) Do these steps again for the remaining oxygen mask doors on these service units:

1) PSUs

2) ASUs

3) LSUs.

LOM 427-434, 437-447, 450-999

SUBTASK 35-22-00-860-085

(27) Do these steps to close the oxygen box doors of each ASU and LSU:

(a) Hold the oxygen box door in the closed position.

LOM 427-434, 437-447, 450-999; AIRPLANES WITH OXYGEN BOX ASSEMBLY P/N 417N3810-XXX, 737-35-1146-XX

(b) Turn the test stop button 90 degrees clockwise.

(c) Push the test stop button up until you hear the sound of a click.

NOTE: The sound of the click shows that the actuator is set.

(d) Release the test stop button.

LOM 427-434, 437-447, 450-999; AIRPLANES WITH OXYGEN BOX ASSEMBLY P/N 4576001-XXX

(e) Push the test stop button until it is flat on the oxygen box door.

LOM 427-434, 437-447, 450-999

(f) Fully close and latch the mask box door.

NOTE: The latch will usually make a "click" noise when it fully engages.

SUBTASK 35-22-00-860-086

(28) Do these steps to close the door of the oxygen boxes of the underbin PSUs of the passenger cabin.

(a) Hold the mask door of the PSU oxygen box to the almost closed position.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 427-434, 437-447, 450-999 (Continued)

(b) Remove the test stop key assembly, COM-14099, or masking tape, G02311, from the oxygen mask door of each PSU.

(c) Arm the door latch actuator.

1) Push the door latch fully aft.

CAUTION	DO NOT CATCH THE OXYGEN MASK ITEMS BETWEEN THE DOOR AND THE OXYGEN BOX. DO NOT CATCH THE OXYGEN MASK ITEMS BETWEEN THE DOOR AND THE ACTUATOR MOUNTING BRACKET. MAKE SURE THAT NO ITEMS ARE CAUGHT. IF YOU CATCH THE OXYGEN MASK ITEMS, YOU CAN CAUSE DAMAGE TO THE ITEMS.

(d) Close the oxygen mask door until the door latch/actuator engages.

NOTE: The latch will usually make a "click" noise when it fully engages.

1) Make sure that the door is aligned with the PSU structure.

NOTE: A misaligned (misfaired) door shows that part of the mask assembly is between the door, or the latch/actuator, and the oxygen box.

LOM ALL

H. Put the Airplane Back to Its Usual Condition

SUBTASK 35-22-00-865-002

(1) Make sure that these circuit breakers are closed:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT
LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-999			
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

LOM ALL

SUBTASK 35-22-00-410-013

(2) Close this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Passenger Oxygen - Flight Compartment Panels
Figure 501/35-22-00-990-801

ECCN 9E991 BOEING PROPRIETARY - See title page for details

G18886 S0006577740_V2

Passenger Oxygen - Automatic Pressure Switch
Figure 502/35-22-00-990-802 (Sheet 1 of 2)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

G18888 S0006577741_V3

Passenger Oxygen - Automatic Pressure Switch
Figure 502/35-22-00-990-802 (Sheet 2 of 2)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

PASSENGER COMPARTMENT

PASSENGER SERVICE UNIT (PSU)

NOTE:

TEST STOP BUTTON SHOWN FOR THE PASSENGER SERVICE UNITS.
THE LAVATORY AND ATTENDANT SERVICE UNITS ARE ALMOST THE SAME.

G18889 S0006577742_V2

Passenger Oxygen - Mask Box Door Operation
Figure 503/35-22-00-990-803 (Sheet 1 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

PASSENGER COMPARTMENT (EXAMPLE)

PASSENGER SERVICE UNIT (PSU)

A

3075456 S0000833973_V1

Passenger Oxygen - Mask Box Door Operation
Figure 503/35-22-00-990-803 (Sheet 2 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

DEPLOYMENT OF THE TEST STOP BUTTON

B

MASK BOX DOOR IN THE TEST POSITION

B

LATCH ACTUATOR PLUNGER IN THE SET POSITION BEFORE THE MASK BOX DOOR IS CLOSED

B

G18891 S0006577744_V2

Passenger Oxygen - Mask Box Door Operation
Figure 503/35-22-00-990-803 (Sheet 3 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

FWD

DOOR LATCH
(LATCH NOT PRESSED)
(EXAMPLE)

C

FWD

DOOR LATCH
(LATCH PRESSED)
(EXAMPLE)

C

3075458 S0000833975_V1

Passenger Oxygen - Mask Box Door Operation
Figure 503/35-22-00-990-803 (Sheet 4 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Passenger Oxygen - Mask Box Door Operation
Figure 504/35-22-00-990-811 (Sheet 1 of 3)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

DEPLOYMENT OF THE TEST STOP BUTTON

C

MASK BOX DOOR IN THE TEST POSITION

C

LATCH ACTUATOR PLUNGER IN THE SET POSITION BEFORE THE MASK BOX DOOR IS CLOSED

C

3075460 S0000833976_V1

Passenger Oxygen - Mask Box Door Operation
Figure 504/35-22-00-990-811 (Sheet 2 of 3)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

PRESS THE SIDE OF THE TEST BUTTON AS SHOWN

C

TEST LABEL IS EXPOSED WHEN THE TEST BUTTON IS IN THE TEST POSITION

D

PUSH THE END OF THE TEST BUTTON TO RETURN THE BUTTON TO NORMAL OPERATING POSITION

E

TEST BUTTON IN NORMAL OPERATING POSITION

F

2924335 S0000705077_V2

Passenger Oxygen - Mask Box Door Operation
Figure 504/35-22-00-990-811 (Sheet 3 of 3)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 35-22-00-700-802

3. **Passenger Oxygen System - Manual Deploy Operational Test**
(Figure 501, 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)

B. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
COM-14099	Test Stop Key Assy Part #: 70698 Supplier: 16115

C. Consumable Materials

Reference	Description	Specification
G02311	Tape - Pressure Sensitive Adhesive, for Masking During Paint Stripping Operations	AMS-T-23397

D. Location Zones

Zone	Area
118	Electrical and Electronics Compartment - Right
200	Upper Half of Fuselage
212	Flight Compartment - Right

E. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

F. Prepare for the Test

SUBTASK 35-22-00-910-004

(1) Read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance (TASK 35-00-00-910-801).

SUBTASK 35-22-00-010-014

(2) To get access to the P92 panel, open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 35-22-00-860-099

WARNING

WHEN YOU OPEN THE P91 AND P92 PANELS, MAKE SURE THAT THE OUTER DOOR STAYS AS OPEN AS POSSIBLE. IF THE OUTER DOOR TURNS IN, THE ATTACHED DOOR COMPONENTS COULD TOUCH THE INNER DOOR COMPONENTS. THIS CAN CAUSE AN ARC CONDITION WHEN YOU SUPPLY POWER. IF YOU DO NOT OBEY, DAMAGE TO EQUIPMENT AND INJURY TO PERSONNEL CAN OCCUR.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(WARNING PRECEDES)

WARNING	DO NOT TOUCH THE CONDUCTORS IN THE P91 AND P92 PANELS. BE CAREFUL WHEN YOU GET ACCESS TO THE CIRCUIT BREAKERS ON THE INNER SIDE OF THE P91 AND P92 PANELS (ROW F). IF IT IS POSSIBLE, REMOVE AIRPLANE ELECTRICAL POWER FIRST. THE P91 AND P92 PANELS HAVE HIGH VOLTAGES AND CURRENTS. ELECTRICAL VOLTAGE AND CURRENT CAN KILL YOU OR CAUSE INJURIES.

(3) Make sure that this circuit breaker is closed:

Power Distribution Panel Number 2, P92

Row	Col	Number	Name
F	5	C03012	XFR BUS 2 SECT 2

SUBTASK 35-22-00-860-038

(4) Make sure that these circuit breakers are closed:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT
LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-999			
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

Captain's Lighting Module, P41

Row	Col	Number	Name
LOM ALL			
		C1	5.8V AC SEC MCP PANEL LIGHTING

F/O Electrical System Panel, P6-3

Row	Col	Number	Name
B	12	C00132	MASTER CAUTION ANNUNCIATOR BUS 1
B	13	C00131	MASTER CAUTION ANNUNCIATOR BAT
C	14	C01278	MASTER CAUTION ANNUNCIATOR CONT 4
D	11	C00133	INDICATOR MASTER DIM DIM/TST CONT
D	12	C00310	INDICATOR MASTER DIM BAT
D	13	C00311	INDICATOR MASTER DIM BUS 1
D	14	C00312	INDICATOR MASTER DIM BUS 2
E	11	C00313	INDICATOR MASTER DIM SECT 1
E	12	C00314	INDICATOR MASTER DIM SECT 2
E	13	C00315	INDICATOR MASTER DIM SECT 3
E	14	C00316	INDICATOR MASTER DIM SECT 4
F	11	C00317	INDICATOR MASTER DIM SECT 5
F	12	C00318	INDICATOR MASTER DIM SECT 6

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LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426

SUBTASK 35-22-00-860-040

(5) Do these steps to prepare the door test stops on each of the oxygen mask doors (Figure 503).

NOTE: Oxygen mask doors are installed on these service units: Attendant Service Unit (ASU), Lavatory Service Unit (LSU), and Passenger Service Unit (PSU).

(a) Make sure that all of the oxygen mask doors are closed.

(b) Use a small flat tool to push the test stop button down.

(c) Hold the test stop button and pull it down fully.

(d) Turn the test stop button counterclockwise 90 degrees to the test stop position.

(e) Do these steps again for the remaining oxygen mask doors on these service units:

1) PSUs

2) ASUs

3) LSUs.

(f) Do a check to make sure that each test stop button is in the test stop position.

NOTE: If the test stop is not in the test position, the oxygen door will open and the masks will deploy during the test.

LOM 427-434, 437-447, 450-999

SUBTASK 35-22-00-860-044

(6) Do these steps for the ASU's and LSU's of the passenger cabin:

(a) Pull the test stop button out to its travel limit.

LOM 427-434, 437-447, 450-999; AIRPLANES WITH OXYGEN BOX ASSEMBLY P/N 417N3810-XXX, 737-35-1146-XX

(b) Turn the test stop button counterclockwise 90 degrees to the test stop position.

LOM 427-434, 437-447, 450-999; AIRPLANES WITH OXYGEN BOX ASSEMBLY P/N 4576001-XXX

(c) Put the test button on the oxygen box in the test position.

LOM 427-434, 437-447, 450-999

(d) Do a check to make sure that each test stop button is in the test stop position.

NOTE: If the test stop button is not in the test stop position, the oxygen box door will open. This will cause the oxygen masks to deploy during the operational test.

SUBTASK 35-22-00-860-045

(7) Do these steps to prepare the oxygen mask doors of the PSUs in the overhead bins of the passenger cabin.

(a) Install the test stop key assembly, COM-14099, or masking tape, G02311, to the oxygen mask door of each PSU.

1) If you use the test stop key assembly, COM-14099, make sure that the tool is installed through the slot in the door. The tool must fully engage the latch of the door latch actuator.

2) If you use the masking tape, G02311, install it to let the door open 1.0 ±0.5 in. (2.5 ±1.3 cm), but not fully open.

LOM ALL

SUBTASK 35-22-00-860-043

(8) Do these steps to clear the Master Caution System:

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(a) On the P7 light shield, push one of the two MASTER CAUTION lights.

(b) Make sure that the two MASTER CAUTION annunciators do not stay on.

(c) Make sure that the OVERHEAD annunciation on the right master caution display does not come on.

G. Manual Deploy Operational Test

SUBTASK 35-22-00-860-048

(1) Open this circuit breaker and install safety tag:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-999			
F	9	C00784	OXYGEN PASS RIGHT

LOM ALL

SUBTASK 35-22-00-720-063

(2) Push the PASS OXYGEN switch on the P5-14 panel, to the ON position, momentarily.

SUBTASK 35-22-00-720-122

(3) Release the switch to the NORMAL position (Figure 501).

SUBTASK 35-22-00-720-064

(4) Make sure that the PASS OXY ON light, on the P5-14 panel, comes on.

NOTE: The "MASTER CAUTION" and "OVERHEAD" indicators on the Master Caution display could possibly come on. If these indicators on the display do not come on, it does not show an unserviceable condition.

SUBTASK 35-22-00-720-065

(5) Make sure that the doors of the PSUs on the left side of the passenger cabin release against the test stops.

SUBTASK 35-22-00-720-067

(6) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND
LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-999			
F	10	C00783	OXYGEN PASS LEFT

LOM ALL

SUBTASK 35-22-00-720-068

(7) Make sure that the PASS OXY ON light, on the P5-14 panel, goes off.

SUBTASK 35-22-00-720-069

(8) Remove the safety tags and close these circuit breakers:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND
LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-999			
F	9	C00784	OXYGEN PASS RIGHT

LOM ALL

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SUBTASK 35-22-00-720-070

(9) Make sure that the PASS OXY ON light, on the P5-14 panel, stays off.

SUBTASK 35-22-00-720-071

(10) Put the PASS OXYGEN switch on the P5-14 panel, to the ON position, momentarily.

SUBTASK 35-22-00-720-123

(11) Release the switch back to the NORMAL position.

SUBTASK 35-22-00-720-072

(12) Make sure that the PASS OXY ON light, on the P5-14 panel, comes on.

NOTE: The "MASTER CAUTION" and "OVERHEAD" indicators on the Master Caution display could possibly come on. If these indicators on the display do not come on, it does not show an unserviceable condition.

SUBTASK 35-22-00-720-073

(13) Make sure that the doors of the oxygen boxes on the right side of the passenger cabin release and move down against the test stops.

SUBTASK 35-22-00-720-076

(14) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND

LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-999

F	9	C00784	OXYGEN PASS RIGHT

LOM ALL

SUBTASK 35-22-00-720-077

(15) Make sure that the PASS OXY ON light, on the P5-14 panel, goes off.

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426

SUBTASK 35-22-00-720-078

(16) Do these steps to close the oxygen box doors on all of the service units:

NOTE: Oxygen mask doors are installed on these service units: ASU, LSU, and PSU.

(a) Hold the oxygen box door in the closed position.

(b) Turn the test stop button 90 degrees clockwise.

(c) Push the test stop button up until you hear the sound of a click.

NOTE: The sound of the click shows that the actuator is set.

(d) Release the test stop button.

(e) Close and latch the mask box door.

1) Use a small flat tool, push the door latch lever up.

Do these steps again for the remaining oxygen mask doors on these service units:

a) PSUs

b) ASUs

c) LSUs.

NOTE: The door latch lever is forward of the test stop button.

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LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)

2) Push the door closed.

NOTE: The latch will usually make a "click" noise when it fully engages.

LOM 427-434, 437-447, 450-999

SUBTASK 35-22-00-860-051

(17) Do these steps to close the oxygen box doors of each applicable ASU and LSU:

(a) Hold the oxygen box door in the closed position.

LOM 427-434, 437-447, 450-999; AIRPLANES WITH OXYGEN BOX ASSEMBLY P/N 417N3810-XXX, 737-35-1146-XX

(b) Turn the test stop button 90 degrees clockwise.

(c) Push the test stop button up until you hear the sound of a click.

NOTE: The sound of the click shows that the actuator is set.

(d) Release the test stop button.

LOM 427-434, 437-447, 450-999; AIRPLANES WITH OXYGEN BOX ASSEMBLY P/N 4576001-XXX

(e) Put the test button on the oxygen box in the normal position.

LOM 427-434, 437-447, 450-999

(f) Fully close and latch the mask box door.

NOTE: The latch will usually make a "click" noise when it fully engages.

SUBTASK 35-22-00-860-052

(18) Do these steps to close the door of the oxygen boxes of the underbin PSU's of the passenger cabin.

(a) Hold the mask door of the PSU oxygen box to the almost closed position.

(b) Remove the test stop key assembly, COM-14099, (or masking tape, G02311) from the oxygen mask door of each PSU.

(c) Arm the door latch actuator.

1) Push the door latch fully aft.

CAUTION	DO NOT CATCH THE OXYGEN MASK ITEMS BETWEEN THE DOOR AND THE OXYGEN BOX. DO NOT CATCH THE OXYGEN MASK ITEMS BETWEEN THE DOOR AND THE ACTUATOR MOUNTING BRACKET. MAKE SURE THAT NO ITEMS ARE CAUGHT. IF YOU CATCH THE OXYGEN MASK ITEMS, YOU CAN CAUSE DAMAGE TO THE ITEMS.

(d) Close the oxygen mask door until the door latch/actuator engages.

NOTE: The latch will usually make a "click" noise when it fully engages.

1) Make sure that the door is aligned with the PSU structure.

NOTE: A misaligned (misfaired) door shows that part of the mask assembly is between the door, or latch/actuator, and oxygen box.

LOM ALL

ECCN 9E991 BOEING PROPRIETARY - See title page for details

H. Put the Airplane Back to Its Usual Condition

SUBTASK 35-22-00-860-055

(1) Make sure that these circuit breakers are closed:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT

LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-999

F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

LOM ALL

SUBTASK 35-22-00-410-014

(2) Close this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

END OF TASK

TASK 35-22-00-210-801

4. Visual Inspection of the Oxygen Generator

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
25-23-61-000-801	Passenger Service Unit (PSU) - Removal (P/B 201)
25-23-61-000-804	Passenger Service Unit - Removal (P/B 401)
25-23-61-400-801	Passenger Service Unit (PSU) - Installation (P/B 201)
25-23-61-400-804	Passenger Service Unit - Installation (P/B 401)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-11-000-804-001	PSU Oxygen Generator Removal (P/B 401)
35-22-11-000-805-001	ASU Oxygen Generator Removal (P/B 401)
35-22-11-000-806-001	LSU Oxygen Generator Removal (P/B 401)
35-22-11-400-804-001	PSU Oxygen Generator Installation (P/B 401)
35-22-11-400-805-001	ASU Oxygen Generator Installation (P/B 401)
35-22-11-400-806-001	LSU Oxygen Generator Installation (P/B 401)
35-22-11-400-811-001	Oxygen Generator Activation (P/B 201)
35-22-31-000-804-001	ASU and LSU Oxygen Mask Packing (P/B 201)

B. Consumable Materials

Reference	Description	Specification
G02311	Tape - Pressure Sensitive Adhesive, for Masking During Paint Stripping Operations	AMS-T-23397

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

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D. Prepare to Inspect the Heat-Sensitive Band On the Oxygen Generator

SUBTASK 35-22-00-910-002

(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 35-22-00-010-001

(2) Get access to the oxygen generator as follows:

(a) Lower the applicable passenger Passenger Service Unit (PSU) (TASK 25-23-61-000-801 or TASK 25-23-61-000-804).

(b) For the Attendant Service Unit (ASU) or Lavatory Service Unit (LSU), do these steps:

1) Go to the applicable ASU or LSU.

2) Apply masking tape, G02311, to the applicable door.

3) Put a tool into the latch access hole.

4) Push up on the tool to operate the door latch.

5) Open the oxygen box door.

6) Let the door rest on the masking tape, G02311.

E. Inspect the Heat-Sensitive Band On the Oxygen Generator

SUBTASK 35-22-00-210-001

(1) If the heat-sensitive band on the oxygen generator is not black, the oxygen generator is in a serviceable condition.

SUBTASK 35-22-00-210-002

(2) If the heat-sensitive band on the oxygen generator is black, replace the applicable oxygen generator.

NOTE: If the heat-sensitive band on the oxygen generator is black, the oxygen generator is fired.

(a) Do these tasks to replace the PSU oxygen generator.

PSU Oxygen Generator Removal, TASK 35-22-11-000-804-001

PSU Oxygen Generator Installation, TASK 35-22-11-400-804-001.

(b) Do these tasks to replace the ASU oxygen generator.

ASU Oxygen Generator Removal, TASK 35-22-11-000-805-001

ASU Oxygen Generator Installation, TASK 35-22-11-400-805-001

ASU and LSU Oxygen Mask Packing, TASK 35-22-31-000-804-001.

LOM 411, 412, 415, 420, 423, 424, 426-431, 437-439, 441, 443, 444; LOM 402, 406, 407 PRE SB 737-35-1146

(c) Do these tasks to replace the LSU oxygen generator.

LSU Oxygen Generator Removal, TASK 35-22-11-000-806-001

LSU Oxygen Generator Installation, TASK 35-22-11-400-806-001

ASU and LSU Oxygen Mask Packing, TASK 35-22-31-000-804-001.

LOM ALL

(d) If it is installed, remove the safety pin from the chemical oxygen generator (TASK 35-22-11-400-811-001).

ECCN 9E991 BOEING PROPRIETARY - See title page for details

F. Close the Access to the Chemical Oxygen Generator.

SUBTASK 35-22-00-410-002

(1) Close the access for the oxygen generator as follows:

(a) Close the applicable passenger PSU (TASK 25-23-61-400-801 or TASK 25-23-61-400-804).

(b) For the ASU or LSU, do these steps to close the oxygen box door:

1) Hold the oxygen box door in the closed position.

2) Push the reset lever on the latch actuator plunger to set the actuator again.

3) Close and latch the oxygen box door.

NOTE: The latch will usually make a "click" noise when it fully engages.

4) Remove the masking tape from the oxygen box door (if installed).

5) Do a visual check of the door fit.

a) Make sure that the oxygen equipment is free of the oxygen box door or actuator.

END OF TASK

LOM 404, 416, 422, 425, 432-434, 440, 442, 445-447, 450-999; LOM 402, 406, 407 POST SB 737-35-1146

TASK 35-22-00-210-802

5. Visual Inspection of the Oxygen Cylinder (CDS)

(Figure 505)

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-51-000-801	LSU Oxygen Cylinder (CDS) Removal (P/B 401)
35-22-51-400-801	LSU Oxygen Cylinder (CDS) Installation (P/B 401)
35-22-51-440-801	Oxygen Cylinder (CDS) Activation (P/B 201)

B. Consumable Materials

Reference	Description	Specification
G02311	Tape - Pressure Sensitive Adhesive, for Masking During Paint Stripping Operations	AMS-T-23397

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Prepare for the Inspection

SUBTASK 35-22-00-910-005

(1) Read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance (TASK 35-00-00-910-801).

SUBTASK 35-22-00-010-006

(2) Get access to the oxygen cylinder as follows:

(a) Gain access to the applicable Lavatory Service Unit (LSU).

(b) Apply masking tape, G02311, to the applicable door.

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(c) Put a tool into the latch access hole.

(d) Push up on the tool to operate the door latch.

(e) Open the oxygen box door.

(f) Let the door rest on masking tape, G02311.

E. Oxygen Cylinder (CDS) Visual Inspection

SUBTASK 35-22-00-210-027

(1) Do these checks at the actuator assembly on the oxygen cylinder.

(a) Make sure that the discharge indicator tape has no damage or holes.

NOTE: A damaged discharge indicator tape will show that an over pressure condition caused oxygen to flow from the relief port.

(b) Make sure that the lanyard assembly is fully engaged in the actuator assembly.

NOTE: A disengaged lanyard assembly will show that an oxygen cylinder release caused oxygen to flow from the masks.

SUBTASK 35-22-00-900-001

(2) If the discharge indicator tape is damaged or the lanyard assembly is disengaged, replace the applicable oxygen cylinder (TASK 35-22-51-000-801 and TASK 35-22-51-400-801).

SUBTASK 35-22-00-210-028

(3) Make sure that the safety pin is removed from the oxygen cylinder (TASK 35-22-51-440-801).

F. Put the Airplane Back to Its Usual Condition

SUBTASK 35-22-00-410-003

(1) Close the access for the oxygen cylinder as follows:

(a) Hold the oxygen box door in the closed position.

(b) Push the reset lever on the latch actuator plunger to set the actuator again.

(c) Close and latch the oxygen box door.

NOTE: The latch will usually make a "click" noise when it fully engages.

(d) Remove the masking tape from the oxygen box door (if installed).

(e) Do a visual check of the door fit.

(f) Make sure that the oxygen equipment is free of the oxygen box door or actuator.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

CDS OXYGEN CYLINDER (EXAMPLE)

2336309 S0000531249_V3

Oxygen Cylinder (CDS) Activation/Deactivation
Figure 505/35-22-00-990-805

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OXYGEN GENERATOR - MAINTENANCE PRACTICES

1. General

A. This procedure contains scheduled maintenance task data.

B. This procedure has these tasks:

(1) A deactivation of the oxygen generator

NOTE: Before the oxygen generators can be used, they must be activated.

(2) An activation of the oxygen generator.

C. All replacement oxygen generators are supplied with a safety pin. The safety pin is installed in the firing mechanism of the oxygen generator. The generator cannot fire (start oxygen flow) when the safety pin is correctly installed. The generator is safe to touch when the safety pin is installed.

D. In addition to the safety pin, a secondary safety device is used for the transport of the spare oxygen generator. This secondary safety device must be removed from the firing pins release pin hole, before the release pin can be installed.

E. The safety pin is to be installed (oxygen generator deactivation) in the oxygen generator firing mechanism whenever the generator, oxygen box, or service unit is removed from the airplane. Once the generator, oxygen box, or service unit is installed, the safety pin must be removed (oxygen generator activation) prior to returning the aircraft to service.

F. All service units have at least one oxygen generator. The generator supplies oxygen to each of the connected oxygen masks. Each generator has a color stripe around the generator body to show if the oxygen generator has been previously fired. The flow of oxygen is begun by the downward pull of the oxygen mask by the passenger, providing that the generator has been properly activated.

G. It is necessary to use an approved pair of pin retraction pliers and a safety pin to deactivate an oxygen generator.

TASK 35-22-11-000-811-001

2. Oxygen Generator Deactivation

(Figure 201)

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
35-22-11-000-804-001	PSU Oxygen Generator Removal (P/B 401)
35-22-11-000-805-001	ASU Oxygen Generator Removal (P/B 401)
35-22-11-000-806-001	LSU Oxygen Generator Removal (P/B 401)
35-22-11-400-804-001	PSU Oxygen Generator Installation (P/B 401)
35-22-11-400-805-001	ASU Oxygen Generator Installation (P/B 401)
35-22-11-400-806-001	LSU Oxygen Generator Installation (P/B 401)
35-22-31-000-804-001	ASU and LSU Oxygen Mask Packing (P/B 201)

B. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

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Reference	Description
SPL-752	Safety Pin and Flag - Chemical Oxygen Generator Part #: C35003-20 Supplier: 81205 Part #: E71401-00 Supplier: D1379
SPL-1935	Pliers or Pry Bar - Firing Pin Retraction, Oxygen Generator Part #: C35004-1 Supplier: 81205 Part #: E71516-00 Supplier: D1379
SPL-1937	Equipment - Firing Pin Retraction, Oxygen Generators Part #: C35003-10 Supplier: 81205 Part #: C35003-20 Supplier: 81205

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Prepare for the Deactivation

SUBTASK 35-22-11-010-034-001

(1) If it is necessary to get access to the oxygen generator [1], open the applicable Passenger Service Unit (PSU), Attendant Service Unit (ASU), or Lavatory Service Unit (LSU).

(a) For the PSU, do these steps to lower the PSU:

1) Put a rod into the latch access hole (2 locations).

2) Push the rod up to release the cam latches.

3) Lower the PSU.

(b) For the ASU or LSU, do these steps:

1) Put a rod or flat tool into the latch access hole or door clearance.

2) Push the tool up to release the door latch.

3) Open the oxygen box door.

4) Let the oxygen masks come out.

SUBTASK 35-22-11-210-025-001

(2) Do these checks before you deactivate the oxygen generator [1]:

(a) Make sure that the heat-sensitive band on the oxygen generator [1] is not black.

NOTE: The oxygen generator [1] has fired if the heat-sensitive band is black.

(b) Make sure that the release pin [2] or safety pin [6] is installed in the firing pin [3].

NOTE: If the firing pin [3] is in the fired position (the safety pin [6] cannot be installed), the oxygen generator [1] has fired or it is damaged.

(c) Make sure that the oxygen generator [1] is not damaged.

SUBTASK 35-22-11-020-032-001

(3) If the oxygen generator [1] fired or is damaged, replace the oxygen generator [1].

(a) Replace a PSU oxygen generator [1], these are the tasks:

PSU Oxygen Generator Removal, TASK 35-22-11-000-804-001,

PSU Oxygen Generator Installation, TASK 35-22-11-400-804-001.

(b) Replace an ASU oxygen generator [1], these are the tasks:

ASU Oxygen Generator Removal, TASK 35-22-11-000-805-001,

ASU Oxygen Generator Installation, TASK 35-22-11-400-805-001.

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LOM 411, 412, 415, 420, 423, 424, 426-431, 437-439, 441, 443, 444; LOM 402, 406, 407 PRE SB 737-35-1146

(c) Replace an LSU oxygen generator [1], these are the tasks:

LSU Oxygen Generator Removal, TASK 35-22-11-000-806-001,

LSU Oxygen Generator Installation, TASK 35-22-11-400-806-001.

LOM ALL

SUBTASK 35-22-11-040-018-001

(4) If the oxygen generator [1] did not fire, deactivate the oxygen generator [1].

E. Oxygen Generator Deactivation

SUBTASK 35-22-11-040-020

WARNING	INSTALL A SAFETY PIN WITH A WARNING FLAG ATTACHED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF YOU REMOVE THE RELEASE PIN AND IF THE SAFETY PIN IS NOT INSTALLED.

WARNING	A FIRED OXYGEN GENERATOR GETS VERY HOT 450°F, (232°C) OR HIGHER AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (APPROXIMATELY ONE HOUR).

(1) Do these steps to deactivate the oxygen generator [1]:

WARNING	HOLD THE RELEASE PIN INTO THE FIRING PIN WITH YOUR HAND. IF THE RELEASE PIN COMES OUT OF THE FIRING PIN, THE GENERATOR WILL FIRE. THE GENERATOR CAN BE HOT AND CAN BURN YOU.

(a) Put the pin retraction pliers [4] between the release pin [2] and firing pin spring case [5].

1) Use the firing pin retraction device, SPL-1935, and safety pin and flag, SPL-752, for the Draeger and B/E Aerospace oxygen generators [1].

2) Use the firing pin retraction equipment and safety pin, SPL-1937, for the Puritan Bennett, B/E Aerospace, and AvOx Systems/Scott Aviation oxygen generators [1].

(b) Carefully move the release pin [2] and firing pin [3] away from the firing pin spring case [5] with the pin retraction pliers [4].

1) Do not release the pin retraction pliers.

(c) Install the safety pin [6] into the hole of the firing pin [3] that is nearest to the oxygen generator [1].

1) Make sure that the safety pin [6] is between the firing pin [3] and firing pin spring case [5].

2) Make sure that you install the safety pin [6] in the smaller of the two holes of the firing pin [3].

(d) Only if it is necessary, remove the release pin [2].

(e) Carefully release the pin retraction pliers [4] and remove them from the oxygen generator [1].

SUBTASK 35-22-11-410-031-001

(2) If no more maintenance is necessary, close the applicable PSU, ASU, or LSU.

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(a) For the PSU, push the PSU panel up to engage the cam latches.

NOTE: The latches will make a "click" noise when they fully engage.

(b) For the ASU or LSU, do these steps:

1) Do this task: ASU and LSU Oxygen Mask Packing, TASK 35-22-31-000-804-001.

2) Close the oxygen box door and push on it to engage the door latch.

NOTE: The latch will usually make a "click" noise when it fully engages.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

OXYGEN GENERATOR
(EXAMPLE)

L80704 S0006577750_V3

Oxygen Generator Activation/Deactivation
Figure 201/35-22-11-990-801-001 (Sheet 1 of 3)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

OXYGEN GENERATOR FIRING MECHANISM

A

OXYGEN GENERATOR FIRING MECHANISM

A

FIRING MECHANISM (EXAMPLE)

B

A-A

B-B

L78876 S0006577751_V3

Oxygen Generator Activation/Deactivation
Figure 201/35-22-11-990-801-001 (Sheet 2 of 3)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

1 PURITAN BENNETT, B/E AEROSPACE, SCOTT AND AVOX OXYGEN GENERATORS.

L78877 S0006577752_V6

Oxygen Generator Activation/Deactivation
Figure 201/35-22-11-990-801-001 (Sheet 3 of 3)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 35-22-11-400-811-001

3. Oxygen Generator Activation

(Figure 201)

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
35-22-11-000-804-001	PSU Oxygen Generator Removal (P/B 401)
35-22-11-000-805-001	ASU Oxygen Generator Removal (P/B 401)
35-22-11-000-806-001	LSU Oxygen Generator Removal (P/B 401)
35-22-11-400-804-001	PSU Oxygen Generator Installation (P/B 401)
35-22-11-400-805-001	ASU Oxygen Generator Installation (P/B 401)
35-22-11-400-806-001	LSU Oxygen Generator Installation (P/B 401)
35-22-31-000-804-001	ASU and LSU Oxygen Mask Packing (P/B 201)

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-1935	Pliers or Pry Bar - Firing Pin Retraction, Oxygen Generator Part #: C35004-1 Supplier: 81205 Part #: E71516-00 Supplier: D1379
SPL-1937	Equipment - Firing Pin Retraction, Oxygen Generators Part #: C35003-10 Supplier: 81205 Part #: C35003-20 Supplier: 81205

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Prepare for the Activation

SUBTASK 35-22-11-010-035-001

(1) Open the applicable Passenger Service Unit (PSU), Attendant Service Unit (ASU), or Lavatory Service Unit (LSU) to get access to the oxygen generator [1].

(a) For the PSU, do these steps to lower the PSU:

1) Put a rod into the latch access hole (2 locations).

2) Push the rod up to release the cam latches.

3) Lower the PSU.

(b) For the ASU or LSU, do these steps:

1) Put a rod or flat tool into the latch access hole or door clearance.

2) Push the tool up to release the door latch.

3) Open the oxygen box door.

4) Release the oxygen masks.

SUBTASK 35-22-11-010-036-001

(2) Do these checks before you activate the oxygen generator [1]:

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(a) Make sure that the heat-sensitive band on the oxygen generator [1] is not black.

NOTE: If the heat-sensitive band is black, the oxygen generator [1] has fired.

(b) Make sure that the safety pin [6] is installed in the firing pin [3] of the oxygen generator [1].

NOTE: If the firing pin [3] is in the fired position (the safety pin [6] cannot be installed), the oxygen generator [1] has fired or the firing mechanism is bad.

(c) Make sure that the oxygen generator [1] is not damaged.

SUBTASK 35-22-11-020-033-001

(3) If the oxygen generator [1] fired or is damaged, replace the oxygen generator [1].

(a) Replace a PSU oxygen generator [1], these are the tasks:

PSU Oxygen Generator Removal, TASK 35-22-11-000-804-001,

PSU Oxygen Generator Installation, TASK 35-22-11-400-804-001.

(b) Replace an ASU oxygen generator [1], these are the tasks:

ASU Oxygen Generator Removal, TASK 35-22-11-000-805-001,

ASU Oxygen Generator Installation, TASK 35-22-11-400-805-001.

LOM 411, 412, 415, 420, 423, 424, 426-431, 437-439, 441, 443, 444; LOM 402, 406, 407 PRE SB 737-35-1146

(c) Replace a LSU oxygen generator [1], these are the tasks:

LSU Oxygen Generator Removal, TASK 35-22-11-000-806-001,

LSU Oxygen Generator Installation, TASK 35-22-11-400-806-001.

LOM ALL

E. Oxygen Generator Activation

SUBTASK 35-22-11-410-032-001

WARNING

HOLD THE RELEASE PIN INTO THE FIRING PIN WITH YOUR HAND. IF THE RELEASE PIN COMES OUT OF THE FIRING PIN, THE GENERATOR WILL FIRE. THE GENERATOR CAN BE HOT AND CAN BURN YOU.

(1) Examine the routing of the cable of the release pin [2], these are the tasks for the correct installation of the release cable:

ASU Oxygen Generator Installation, TASK 35-22-11-400-805-001,

PSU Oxygen Generator Installation, TASK 35-22-11-400-804-001.

LOM 411, 412, 415, 420, 423, 424, 426-431, 437-439, 441, 443, 444; LOM 402, 406, 407 PRE SB 737-35-1146

LSU Oxygen Generator Installation, TASK 35-22-11-400-806-001.

LOM ALL

(a) Make sure that the release pin [2] and cable pull straight from the firing pin spring case [5] when the masks pull from the applicable PSU, ASU, or LSU.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 35-22-11-210-029-001

> **WARNING** HOLD THE RELEASE PIN INTO THE FIRING PIN WITH YOUR HAND. IF THE RELEASE PIN COMES OUT OF THE FIRING PIN, THE GENERATOR WILL FIRE. THE GENERATOR CAN BE HOT AND CAN BURN YOU.

(2) Examine the release pin [2].

(a) If the release pin [2] is damaged, bent, or has corrosion, replace it.

SUBTASK 35-22-11-410-033-001

> **WARNING** A FIRED OXYGEN GENERATOR GETS VERY HOT 450°F, (232°C) OR HIGHER AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (APPROXIMATELY ONE HOUR).

(3) Do these steps to activate the oxygen generator [1]:

(a) If it is necessary, install the safety pin [6] in the firing pin [3] of the oxygen generator [1].

(b) If it is necessary, remove the secondary safety device from the firing pin [3] of the oxygen generator [1].

1) Use a secondary safety device and safety pin [6] for the transportation of spare oxygen generators [1].

2) Remove the secondary safety device from the firing mechanism before the release pin [2] is installed.

3) Make sure that you remove the safety pin [6] and secondary safety device before you put the oxygen box in-service.

> **WARNING** MAKE SURE THAT THE RELEASE CABLE HAS FREE TRAVEL. THE RELEASE CABLE PULLS THE RELEASE PIN WHEN THE MASKS COME DOWN DURING AN EMERGENCY. IF THE ROUTING OF THE RELEASE CABLE IS INCORRECT, THE OXYGEN DISTRIBUTION SYSTEM WILL NOT OPERATE. THIS CAN CAUSE INJURIES TO PASSENGERS.

> **WARNING** HOLD THE RELEASE PIN INTO THE FIRING PIN WITH YOUR HAND. IF THE RELEASE PIN COMES OUT OF THE FIRING PIN, THE GENERATOR WILL FIRE. THE GENERATOR CAN BE HOT AND CAN BURN YOU.

(c) Align the release pin [2] and firing pin [3] to the installed positions and install the release pin [2] in the larger of the two holes of the firing pin [3].

1) Make sure that the shaft of the release pin [2] extends fully through the firing pin [3] of the oxygen generator [1].

(d) Put the pin retraction pliers [4] between the release pin [2] and firing pin spring case [5] of the oxygen generator [1], and move the firing pin [3] away from the firing pin spring case [5] of the oxygen generator [1].

I 1) Use the firing pin retraction device, SPL-1935, for the Draeger and B/E Aerospace oxygen generators [1].

2) Use the firing pin retraction equipment and safety pin, SPL-1937, for the Puritan Bennett, B/E Aerospace, and AvOx Systems/Scott Aviation oxygen generators [1].

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(e) Make sure that the shaft of the release pin [2] extends fully through the firing pin [3] of the oxygen generator [1].

(f) Carefully remove the safety pin [6] from the firing pin [3] of the oxygen generator [1].

(g) Let the pin retraction pliers [4] go closed and remove the pliers.

SUBTASK 35-22-11-210-030

WARNING	MAKE SURE THAT THE RELEASE CABLE HAS FREE TRAVEL. THE RELEASE CABLE PULLS THE RELEASE PIN WHEN THE MASKS COME DOWN DURING AN EMERGENCY. IF THE ROUTING OF THE RELEASE CABLE IS INCORRECT, THE OXYGEN DISTRIBUTION SYSTEM WILL NOT OPERATE. THIS CAN CAUSE INJURIES TO PASSENGERS.

(4) Examine the routing of the cable of the release pin [2] again.

(a) Make sure that the release pin [2] and its cable will pull straight away from the firing pin spring case [5] when the oxygen masks are pulled from the applicable PSU, ASU, or LSU.

SUBTASK 35-22-11-410-035-001

(5) Make sure that the shaft of the release pin [2] extends fully through the hole in the firing pin [3].

SUBTASK 35-22-11-410-040-001

(6) If no more maintenance is necessary, close the applicable PSU, ASU, or LSU.

(a) For the PSU, push the PSU panel up to engage the cam latches.

NOTE: The latches will usually make a "click" noise when they fully engage.

(b) For the ASU or LSU, do these steps:

1) Do this task: ASU and LSU Oxygen Mask Packing, TASK 35-22-31-000-804-001.

2) Close the oxygen box door and push on it to engage the door latch.

NOTE: The latch will usually make a "click" noise when it fully engages.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

OXYGEN GENERATOR - REMOVAL/INSTALLATION

1. General

A. This procedure contains these tasks:

(1) A removal of the PSU oxygen generator

(2) An installation of the PSU oxygen generator

(3) A removal of the ASU oxygen generator

(4) An installation of the ASU oxygen generator

LOM 411, 412, 415, 420, 423, 424, 426-431, 437-439, 441, 443, 444; LOM 402, 406, 407 PRE SB 737-35-1146

(5) A removal of the LSU oxygen generator

(6) An installation of the LSU oxygen generator.

LOM ALL

B. Before you do maintenance on an oxygen system component that contains an oxygen generator you must install a safety pin in the oxygen generator firing mechanism. The safety pin will permit the oxygen generator to be handled and stored. If the safety pin is not installed, the oxygen generator can fire.

C. All spare oxygen generators are supplied with a safety pin installed in the firing mechanism.

D. When you do the removal and installation procedures for the ASUs and the LSUs, it is necessary to open the oxygen box door. When the oxygen box door is opened, the oxygen masks will drop (deploy). After you install the oxygen generator, you must then do the packing procedure for the oxygen masks.

TASK 35-22-11-000-804-001

2. PSU Oxygen Generator Removal

(Figure 401)

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
35-22-11-000-811-001	Oxygen Generator Deactivation (P/B 201)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Prepare for the PSU Oxygen Generator(s) Removal

SUBTASK 35-22-11-010-010-001

(1) Lower the Passenger Service Unit (PSU).

(a) Put a rod into the latch access hole (2 locations).

(b) Push up on the rod to unlatch the cam latches.

(c) Lower the PSU.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 35-22-11-040-009-001

> **WARNING**
> MAKE SURE A RELEASE PIN OR A SAFETY PIN (WITH A WARNING FLAG) IS INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF A PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F/232°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (APPROXIMATELY ONE HOUR).

(2) If the oxygen generator has not fired, do this task: Oxygen Generator Deactivation, TASK 35-22-11-000-811-001.

NOTE: If the oxygen generator has fired, it is not necessary to deactivate the oxygen generator.

D. PSU Oxygen Generator Removal

SUBTASK 35-22-11-020-048-001

(1) Do not loosen or remove the cable pulleys on the PSU, if installed.

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426

SUBTASK 35-22-11-020-007-001

(2) Remove the oxygen supply line [6] from the oxygen generator [1].

SUBTASK 35-22-11-020-008-001

(3) Remove the screw [3] and washer [4] from the strap [5].

SUBTASK 35-22-11-010-011-001

(4) Move the strap [5] away from the oxygen generator [1].

LOM 427-434, 437-447, 450-999

SUBTASK 35-22-11-020-037

(5) Remove the oxygen supply lines [6] from the oxygen generator [1].

SUBTASK 35-22-11-020-036

(6) Remove the screws [3] from the straps [5].

SUBTASK 35-22-11-020-038

(7) Move the straps [5] away from the oxygen generator [1].

LOM ALL

SUBTASK 35-22-11-020-009-001

> **CAUTION**
> YOU MUST BE VERY CAREFUL WHEN YOU INSTALL AND REMOVE AN OXYGEN GENERATOR. DO NOT DAMAGE THE OXYGEN GENERATOR OR LET IT FALL. IF THE OXYGEN GENERATOR IS DAMAGED, IT IS POSSIBLE THAT THE OXYGEN GENERATOR WILL NOT FIRE.

> **CAUTION**
> DO NOT TRY TO REMOVE THE FIRING MECHANISM FROM THE OXYGEN GENERATOR. YOU CANNOT ASSEMBLE IT AGAIN THUS IT IS DAMAGED.

(8) Remove the PSU oxygen generator [1].

(a) Make sure that a safety pin [7] is installed in the firing pin on the oxygen generator [1].

(b) Pull the release pin from the firing pin.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

WARNING	MAKE SURE THAT YOU OBEY ALL APPLICABLE REGULATORY REQUIREMENTS FOR THE TRANSPORT OF OXYGEN GENERATORS. IF THE SERVICE LIFE OF THE GENERATORS EXPIRES, YOU MUST FIRE THE GENERATORS AND MAKE SURE THAT THE OXIDIZER CORE IS EMPTY. DO THIS BEFORE YOU PREPARE THE GENERATORS FOR TRANSPORT. IF THE GENERATORS ARE NOT FIRED AND EMPTY, THEY CAN ACCIDENTALLY FIRE DURING TRANSPORT AND CAUSE HEAT AND IGNITION. THIS CAN CAUSE DEATH OR INJURY TO PERSONS AND DAMAGE TO THE AIRCRAFT.

(c) Remove the oxygen generator [1].

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

PASSENGER SERVICE UNIT
(EXAMPLE)

A

F65286 S0006577762_V3

Oxygen Generator - PSU Installation
Figure 401/35-22-11-990-804-001 (Sheet 1 of 11)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

OXYGEN GENERATOR

B

F65287 S0006577763_V3

Oxygen Generator - PSU Installation
Figure 401/35-22-11-990-804-001 (Sheet 2 of 11)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

C

2146698 S0000466491_V2

Oxygen Generator - PSU Installation
Figure 401/35-22-11-990-804-001 (Sheet 3 of 11)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

**PASSENGER COMPARTMENT
(EXAMPLE)**

3069073 S0000830084_V1

**Oxygen Generator - PSU Installation
Figure 401/35-22-11-990-804-001 (Sheet 4 of 11)**

ECCN 9E991 BOEING PROPRIETARY - See title page for details

NON-PSA THERMAL PAD

A

PSA THERMAL PAD

A

3069013 S0000830016_V1

Oxygen Generator - PSU Installation
Figure 401/35-22-11-990-804-001 (Sheet 5 of 11)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

PASSENGER COMPARTMENT (EXAMPLE)

PASSENGER SERVICE UNIT (PSU)

A

1955705 S0000372973_V5

Oxygen Generator - PSU Installation
Figure 401/35-22-11-990-804-001 (Sheet 6 of 11)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

**PASSENGER COMPARTMENT
(EXAMPLE)**

3069074 S0000830085_V1

**Oxygen Generator - PSU Installation
Figure 401/35-22-11-990-804-001 (Sheet 7 of 11)**

ECCN 9E991 BOEING PROPRIETARY - See title page for details

NON-PSA THERMAL PAD

A

PSA THERMAL PAD

A

3069075 S0000830018_V1

Oxygen Generator - PSU Installation
Figure 401/35-22-11-990-804-001 (Sheet 8 of 11)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

PASSENGER COMPARTMENT (EXAMPLE)

PASSENGER SERVICE UNIT (PSU)

A

2467309 S0000576464_V1

Oxygen Generator - PSU Installation
Figure 401/35-22-11-990-804-001 (Sheet 9 of 11)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

OXYGEN GENERATOR (EXAMPLE)

B

1955712 S0000372974_V2

Oxygen Generator - PSU Installation
Figure 401/35-22-11-990-804-001 (Sheet 10 of 11)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

MASK BOX
(0XYGEN GENERATOR NOT SHOWN)

C

1997395 S0000389959_V2

Oxygen Generator - PSU Installation
Figure 401/35-22-11-990-804-001 (Sheet 11 of 11)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 35-22-11-400-804-001

3. PSU Oxygen Generator Installation

(Figure 401)

NOTE: This procedure is a scheduled maintenance task.

A. General

(1) The capacities of the oxygen generators are not all the same. Make sure that the correct part number and capacity (12 minute or 22 minute) is installed.

B. References

Reference	Title
25-23-61-400-804	Passenger Service Unit - Installation (P/B 401)
35-22-11-400-811-001	Oxygen Generator Activation (P/B 201)

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-752	Safety Pin and Flag - Chemical Oxygen Generator Part #: C35003-20 Supplier: 81205 Part #: E71401-00 Supplier: D1379

D. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Oxygen generator	35-22-11-02-195	LOM 411, 412, 415
		35-22-11-05L-025	LOM 423, 424, 426-431, 437-439, 441, 446, 447
		35-22-11-05M-025	LOM 423, 424, 426-431, 437-439, 441, 446, 447
		35-22-11-05P-040	LOM 443, 444
		35-22-11-25-090	LOM 427-434, 437-442, 445-447, 450, 453-460, 465
		35-22-11-26-055	LOM 443, 444, 451, 452, 461-464
		35-22-11-28B-155	LOM 402, 404, 406, 416
		35-22-11-28C-155	LOM 402, 404, 406, 416
		35-22-11-28D-180	LOM 402, 404, 406, 416
		35-22-11-50R-170	LOM 426
		35-22-11-50S-170	LOM 412, 415, 423, 424
		35-22-11-53E-035	LOM 451
		35-22-11-53K-035	LOM 461-464
		35-22-11-53N-070	LOM 443, 444, 451, 452
		35-22-11-54-070	LOM 429-432, 437-439, 441, 446, 447, 455, 456, 458-460, 465

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(Continued)

AMM Item	Description	AIPC Reference	AIPC Effectivity
1 (cont.)		35-22-11-60C-170	LOM 426
		35-22-11-60E-170	LOM 407, 420
		35-22-11-60F-170	LOM 407, 412, 415, 420, 423, 424
		35-22-11-60L-170	LOM 412, 415, 423, 424
		35-22-11-60W-170	LOM 411
		35-22-11-60X-170	LOM 411
		35-22-11-61G-170	LOM 422, 425
		35-22-11-61H-170	LOM 422, 425
		35-22-11-61J-170	LOM 422, 425

E. Location Zones

Zone	Area
200	Upper Half of Fuselage

F. Prepare for the Installation

SUBTASK 35-22-11-210-007-001

(1) Do these checks before you install the oxygen generator [1]:

(a) Make sure that the heat-sensitive band on the oxygen generator [1] is not black.

NOTE: If the heat-sensitive band is black, the oxygen generator has fired.

(b) Make sure that the chemical oxygen generator is secured with clamps that have pads that are not installed with Pressure Sensitive Adhesive (PSA).

NOTE: The incorrect PSA pad material is identified as a pad that is flat and adhered to the inside surface of the clamp. The correct, NON-PSA pad material is identified by having channel features that wrap the edges of the clamp to keep them secured.

WARNING

MAKE SURE A RELEASE PIN OR A SAFETY PIN (WITH A WARNING FLAG) IS INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF A PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F/232°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (APPROXIMATELY ONE HOUR).

(c) Make sure that the safety pin [7] is installed in the firing pin.

NOTE: If the firing pin is in the fired position (the firing pin is against the percussion cap), the oxygen generator has fired or the firing mechanism is bad.

(d) Make sure that the oxygen generator [1] does not have these types of damage:

1) dents
2) pushed-in ends
3) a bent or loose firing mechanism
4) unusual noises when the oxygen generator [1] is shaken gently.

SUBTASK 35-22-11-210-008-001

(2) If the oxygen generator [1] is not serviceable, discard it.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 35-22-11-210-009-001

(3) If the oxygen generator [1] is serviceable, do the subsequent procedure.

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426

G. PSU Oxygen Generator Installation

SUBTASK 35-22-11-020-049-001

(1) Do not loosen or remove the cable pulleys on the Passenger Service Unit (PSU), if installed.

SUBTASK 35-22-11-010-012-001

(2) Go to the applicable PSU in the passenger compartment.

SUBTASK 35-22-11-410-054-001

CAUTION	ALIGN THE OXYGEN GENERATOR CORRECTLY WITH THE RELEASE CABLE TO MAKE THE RELEASE MECHANISM OPERATE CORRECTLY. AN INCORRECTLY ALIGNED OXYGEN GENERATOR WILL NOT OPERATE CORRECTLY.

CAUTION	YOU MUST BE VERY CAREFUL WHEN YOU INSTALL AND REMOVE AN OXYGEN GENERATOR. DO NOT DAMAGE THE OXYGEN GENERATOR OR LET IT FALL. IF THE OXYGEN GENERATOR IS DAMAGED, IT IS POSSIBLE THAT THE OXYGEN GENERATOR WILL NOT FIRE.

CAUTION	DO NOT TRY TO REMOVE THE FIRING MECHANISM FROM THE OXYGEN GENERATOR. YOU CANNOT ASSEMBLE IT AGAIN THUS IT IS DAMAGED.

(3) Position the oxygen generator [1] in the oxygen box with the firing pin release pin hole aligned with the center of the release cable guide, and the safety pin [7] and warning flag pointing in the direction of the release cable.

NOTE: Some PSUs contain a placard, that specifies the location to align the release pin.

(a) If the placard is installed, align the release pin between the arrows on the placard.

(b) If the placard is not installed, center the release pin above the top of the No Smoking/Fasten Seat Belt Lamp Housing Assembly.

SUBTASK 35-22-11-410-008-001

(4) Install the strap [5], screw [3], and washer [4] to the PSU.

(a) Tighten the screw [3] to 9 ±1 in-lb (1.02 ±0.11 N·m).

SUBTASK 35-22-11-420-004-001

(5) Connect the oxygen supply line [6] to the oxygen generator [1].

(a) Make sure that the oxygen supply line is tightly connected to the manifold.

SUBTASK 35-22-11-440-004-001

(6) Do this task: Oxygen Generator Activation, TASK 35-22-11-400-811-001.

SUBTASK 35-22-11-410-041-001

(7) Close the PSU.

(a) Push the PSU panel up to engage the cam latches.

NOTE: The latches will usually make a "click" sound when they fully engage.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 427-434, 437-447, 450-999

H. PSU Oxygen Generator Installation

SUBTASK 35-22-11-400-001

> **WARNING** A FIRED OXYGEN GENERATOR GETS VERY HOT 450°F, (232°C) OR HIGHER AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (APPROXIMATELY ONE HOUR).

(1) Make sure that the safety pin [7] (safety pin and flag, SPL-752) is installed in the generator firing mechanism.

LOM 427-434, 437-447, 450-999; AIRPLANES WITH UNDERBIN PSU

SUBTASK 35-22-11-211-005

(2) Make sure that the lanyard rings [9] of the mask lanyards [10] are fully installed to the oxygen generator release cable [8].

LOM 427-434, 437-447, 450-999

SUBTASK 35-22-11-420-012

(3) Put the oxygen generator [1] in its installed position on the PSU.

(a) Install the oxygen supply lines [6] to the oxygen generator.

(b) Align the release pin hole of the generator firing mechanism horizontal to the cover of the oxygen mask box.

(c) Put the straps [5] in the installed position.

(d) Install the screws [3] and straps [5] to the PSU.

(e) Tighten the screws [3] to 9 ±1 in-lb (1.02 ±0.11 N·m).

SUBTASK 35-22-11-440-015

(4) Do this task: Oxygen Generator Activation, TASK 35-22-11-400-811-001.

SUBTASK 35-22-11-410-045

(5) Close the PSU.

(a) Push the PSU panel up to fully engage the cam latches (TASK 25-23-61-400-804).

——— END OF TASK ———

LOM ALL

TASK 35-22-11-000-805-001

4. ASU Oxygen Generator Removal

(Figure 402)

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
35-22-11-000-811-001	Oxygen Generator Deactivation (P/B 201)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

ECCN 9E991 BOEING PROPRIETARY - See title page for details

C. Prepare for the Removal

SUBTASK 35-22-11-010-013-001

(1) Go to the applicable forward or aft Attendant Service Unit (ASU), found above the exit doors.

SUBTASK 35-22-11-010-014-001

(2) Do these steps to open an ASU oxygen box [22]:

(a) Put a tool into the latch access hole.

(b) Push up on the tool to operate the door latch.

(c) Open the oxygen box door.

(d) Let the oxygen masks to fall.

(e) Do not pull on the oxygen masks.

NOTE: If you pull on the oxygen masks, the oxygen generator will fire.

(f) Put the masks and streamer out of the way during the maintenance.

SUBTASK 35-22-11-020-016-001

WARNING

MAKE SURE A RELEASE PIN OR A SAFETY PIN (WITH A WARNING FLAG) IS INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF A PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F/232°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (APPROXIMATELY ONE HOUR).

(3) If the oxygen generator [27] has not fired, do this task: Oxygen Generator Deactivation, TASK 35-22-11-000-811-001.

NOTE: If the oxygen generator has fired, it is not necessary to deactivate the oxygen generator.

D. ASU Oxygen Generator Removal

SUBTASK 35-22-11-020-010-001

(1) Loosen the screws [24] that attach the oxygen generator [27] to the oxygen box [22].

SUBTASK 35-22-11-020-011-001

(2) Disconnect the oxygen supply line from the oxygen generator manifold [21].

SUBTASK 35-22-11-020-012-001

CAUTION

YOU MUST BE VERY CAREFUL WHEN YOU INSTALL AND REMOVE OXYGEN GENERATORS. DO NOT APPLY FORCE TO AN OXYGEN GENERATOR OR LET IT FALL. YOU CAN CAUSE DAMAGE THAT WILL PREVENT THE OPERATION OF THE OXYGEN GENERATOR.

CAUTION

DO NOT TRY TO REMOVE THE FIRING MECHANISM FROM THE OXYGEN GENERATOR. YOU CANNOT ASSEMBLE IT AGAIN THUS IT IS DAMAGED.

(3) Do these steps to remove the oxygen generator [27]:

(a) Make sure that the safety pin [23] is installed in the firing pin.

(b) Remove the release pin from the firing pin.

(c) Remove the screws [24] that attach the oxygen generator [27] to the oxygen box [22].

1) Keep the fasteners for the installation.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

WARNING

MAKE SURE THAT YOU OBEY ALL APPLICABLE REGULATORY REQUIREMENTS FOR THE TRANSPORT OF OXYGEN GENERATORS. IF THE SERVICE LIFE OF THE GENERATORS EXPIRES, YOU MUST FIRE THE GENERATORS AND MAKE SURE THAT THE OXIDIZER CORE IS EMPTY. DO THIS BEFORE YOU PREPARE THE GENERATORS FOR TRANSPORT. IF THE GENERATORS ARE NOT FIRED AND EMPTY, THEY CAN ACCIDENTALLY FIRE DURING TRANSPORT AND CAUSE HEAT AND IGNITION. THIS CAN CAUSE DEATH OR INJURY TO PERSONS AND DAMAGE TO THE AIRCRAFT.

(d) Remove the oxygen generator [27] from the oxygen box [22].

(e) Remove the heat shield [26] from the oxygen generator [27].

1) Keep the heat shield [26] for the installation.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

ATTENDANT SERVICE UNIT (ASU)
(FORWARD ASU IS SHOWN)
(EXAMPLE)

F75407 S0006577766_V3

Oxygen Generator - ASU Installation
Figure 402/35-22-11-990-805-001 (Sheet 1 of 2)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

**ATTENDANT SERVICE UNIT (ASU)
(FORWARD ASU IS SHOWN)
(EXAMPLE)**

**Oxygen Generator - ASU Installation
Figure 402/35-22-11-990-805-001 (Sheet 2 of 2)**

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 35-22-11-400-805-001

5. ASU Oxygen Generator Installation

(Figure 402)

NOTE: This procedure is a scheduled maintenance task.

A. General

(1) The capacities of the oxygen generators are not all the same. Make sure that the correct part number and capacity (12 minute or 22 minute) is installed.

B. References

Reference	Title
35-22-11-400-811-001	Oxygen Generator Activation (P/B 201)

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
27	Oxygen generator	35-22-11-02-195	LOM 411, 412, 415
		35-22-11-05B-130	LOM 402, 406, 407, 411, 412, 415, 420
		35-22-11-05L-025	LOM 423, 424, 426-431, 437-439, 441, 446, 447
		35-22-11-05M-025	LOM 423, 424, 426-431, 437-439, 441, 446, 447
		35-22-11-05N-025	LOM 423, 424, 426-431, 437-439, 441, 446, 447
		35-22-11-05P-040	LOM 443, 444
		35-22-11-06L-095	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426
		35-22-11-07B-120	LOM 416, 422, 425
		35-22-11-21-210	LOM 443, 444, 451, 452, 461-464
		35-22-11-21-215	LOM 465
		35-22-11-33-175	LOM 427-432, 437-439, 441, 445-447, 450, 455-460, 466-999
		35-22-11-33-380	LOM 438, 439, 441, 445, 450, 458-460, 466-999
		35-22-11-89D-125	LOM 402, 406, 407, 411, 412, 415, 420, 423, 424
		35-22-11-91-135	LOM 404
		35-22-11-91B-130	LOM 426
		35-22-11-93-155	LOM 402, 404, 406, 407, 411, 422, 425
		35-22-11-93A-160	LOM 412, 415, 420, 423, 424
		35-22-11-93B-170	LOM 426

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(Continued)

AMM Item	Description	AIPC Reference	AIPC Effectivity
27 (cont.)		35-22-11-95-190	LOM 427-434, 437-442, 445-447, 450, 453-460, 465-999

D. Location Zones

Zone	Area
200	Upper Half of Fuselage

E. Prepare for the Installation

SUBTASK 35-22-11-210-010-001

(1) Do these checks of the oxygen generator [27]:

(a) Make sure that the heat-sensitive band on the oxygen generator [27] is not black.

NOTE: If the heat-sensitive band is black, the oxygen generator has fired.

> **WARNING**
> MAKE SURE A RELEASE PIN OR A SAFETY PIN (WITH A WARNING FLAG) IS INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF A PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F/232°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (APPROXIMATELY ONE HOUR).

(b) Make sure that the safety pin [23] is installed in the firing pin.

NOTE: If the firing pin is in the fired position (the firing pin is against the percussion cap), the oxygen generator has fired or the firing mechanism is bad.

(c) Make sure that the oxygen generator [27] does not have these types of damage:

- dents
- pushed-in ends
- a bent or loose firing mechanism
- unusual noises when the oxygen generator [27] is shaken gently.

SUBTASK 35-22-11-210-011-001

(2) If the oxygen generator [27] is not serviceable, discard it.

SUBTASK 35-22-11-210-012-001

(3) If the oxygen generator [27] is serviceable, do the subsequent procedure.

F. ASU Oxygen Generator Installation

SUBTASK 35-22-11-010-015-001

(1) Go to the applicable Attendant Service Unit (ASU) in the passenger compartment.

SUBTASK 35-22-11-820-002-001

> **CAUTION**
> YOU MUST BE VERY CAREFUL WHEN YOU INSTALL AND REMOVE OXYGEN GENERATORS. DO NOT APPLY FORCE TO AN OXYGEN GENERATOR OR LET IT FALL. YOU CAN CAUSE DAMAGE THAT WILL PREVENT THE OPERATION OF THE OXYGEN GENERATOR.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(CAUTION PRECEDES)

> **CAUTION**
> DO NOT TRY TO REMOVE THE FIRING MECHANISM FROM THE OXYGEN GENERATOR. YOU CANNOT ASSEMBLE IT AGAIN THUS IT IS DAMAGED.

(2) Put the oxygen generator [27] in its position with the safety pin [23] in the direction of the release cable.

NOTE: Some ASUs contain a placard, that specifies the location to align the release pin. If the placard is installed, align the release pin between the arrows on the placard. If the placard is not installed, center the release pin above the top of the No Smoking/Fasten Seat Belt Lamp Housing Assembly.

(a) Make sure that the safety pin [23], release pin, and firing pin do not touch the oxygen box [22].

SUBTASK 35-22-11-410-009-001

(3) Put the heat shield [26] and oxygen generator [27] in their positions in the oxygen box [22].

(a) Install the screws [24].

SUBTASK 35-22-11-420-005-001

(4) Connect the oxygen supply line to the oxygen generator manifold [21] on the oxygen generator [27].

(a) Make sure that the oxygen supply line is tightly connected to the oxygen generator manifold [21].

SUBTASK 35-22-11-440-005-001

(5) Do this task: Oxygen Generator Activation, TASK 35-22-11-400-811-001.

END OF TASK

LOM 411, 412, 415, 420, 423, 424, 426-431, 437-439, 441, 443, 444; LOM 402, 406, 407 PRE SB 737-35-1146

TASK 35-22-11-000-806-001

6. LSU Oxygen Generator Removal

(Figure 403)

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
35-22-11-000-811-001	Oxygen Generator Deactivation (P/B 201)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Prepare for the Removal

SUBTASK 35-22-11-010-016-001

(1) Go to the applicable Lavatory Service Unit (LSU).

SUBTASK 35-22-11-010-017-001

(2) Do these steps to open an LSU oxygen box [41]:

(a) Put a tool into the latch access hole.

(b) Push up on the tool to operate the door latch.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(c) Open the oxygen box door.

(d) Let the oxygen masks fall.

(e) Do not pull on the oxygen masks.

NOTE: If you pull on the oxygen masks, the oxygen generator will fire.

(f) Put the masks and streamer out of the way during the maintenance.

SUBTASK 35-22-11-020-017-001

WARNING	MAKE SURE A RELEASE PIN OR A SAFETY PIN (WITH A WARNING FLAG) IS INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF A PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F/232°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (APPROXIMATELY ONE HOUR).

(3) If the oxygen generator [42] has not fired, do this task: Oxygen Generator Deactivation, TASK 35-22-11-000-811-001.

NOTE: If the oxygen generator has fired, it is not necessary to deactivate the oxygen generator.

D. LSU Oxygen Generator Removal

SUBTASK 35-22-11-020-050-001

(1) Loosen the screws [45] that attach the oxygen generator [42] to the oxygen box [41].

SUBTASK 35-22-11-030-001

(2) Disconnect the oxygen mask supply lines from the oxygen generator manifold [46].

SUBTASK 35-22-11-020-015-001

CAUTION	YOU MUST BE VERY CAREFUL WHEN YOU INSTALL AND REMOVE OXYGEN GENERATORS. DO NOT APPLY FORCE TO AN OXYGEN GENERATOR OR LET IT FALL. YOU CAN CAUSE DAMAGE THAT WILL PREVENT THE OPERATION OF THE OXYGEN GENERATOR.

CAUTION	DO NOT TRY TO REMOVE THE FIRING MECHANISM FROM THE OXYGEN GENERATOR. YOU CANNOT ASSEMBLE IT AGAIN THUS IT IS DAMAGED.

(3) Do these steps to remove the oxygen generator [42]:

(a) Make sure that the safety pin [43] is installed in the firing pin.

(b) Remove the release pin from the firing pin.

(c) Remove the screws [45] that attach the oxygen generator [42] and heat shield [47] to the oxygen box [41].

1) Keep the fasteners for the installation.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 411, 412, 415, 420, 423, 424, 426-431, 437-439, 441, 443, 444; LOM 402, 406, 407 PRE SB 737-35-1146 (Continued)

WARNING	MAKE SURE THAT YOU OBEY ALL APPLICABLE REGULATORY REQUIREMENTS FOR THE TRANSPORT OF OXYGEN GENERATORS. IF THE SERVICE LIFE OF THE GENERATORS EXPIRES, YOU MUST FIRE THE GENERATORS AND MAKE SURE THAT THE OXIDIZER CORE IS EMPTY. DO THIS BEFORE YOU PREPARE THE GENERATORS FOR TRANSPORT. IF THE GENERATORS ARE NOT FIRED AND EMPTY, THEY CAN ACCIDENTALLY FIRE DURING TRANSPORT AND CAUSE HEAT AND IGNITION. THIS CAN CAUSE DEATH OR INJURY TO PERSONS AND DAMAGE TO THE AIRCRAFT.

(d) Remove the oxygen generator [42] from the oxygen box [41].

(e) Remove the heat shield [47] from the oxygen generator [42].

1) Keep the heat shield [47] for the installation.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LAVATORY SERVICE UNIT (LSU)
(AFT LSU IS SHOWN)
(EXAMPLE)

H33269 S0006577771_V3

Oxygen Generator - LSU Installation
Figure 403/35-22-11-990-806-001 (Sheet 1 of 2)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

**LAVATORY SERVICE UNIT (LSU)
(AFT LSU IS SHOWN)
(EXAMPLE)**

OXYGEN BOX

D86014 S0000166053_V3

**Oxygen Generator - LSU Installation
Figure 403/35-22-11-990-806-001 (Sheet 2 of 2)**

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 35-22-11-400-806-001

7. LSU Oxygen Generator Installation

(Figure 403)

NOTE: This procedure is a scheduled maintenance task.

A. General

(1) The capacities of the oxygen generators are not all the same. Make sure that the correct part number and capacity (12 minute or 22 minute) is installed.

B. References

Reference	Title
35-22-11-400-811-001	Oxygen Generator Activation (P/B 201)

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
42	Oxygen generator	35-22-11-02-195	LOM 411, 412, 415
		35-22-11-05B-130	LOM 402, 406, 407, 411, 412, 415, 420
		35-22-11-05D-025	LOM 402, 406, 407, 411, 412, 415, 420
		35-22-11-05E-025	LOM 402, 406, 407, 411, 412, 415, 420
		35-22-11-05L-025	LOM 423, 424, 426-431, 437-439, 441
		35-22-11-05M-025	LOM 423, 424, 426-431, 437-439, 441
		35-22-11-05N-025	LOM 423, 424, 426-431, 437-439, 441
		35-22-11-05P-040	LOM 443, 444
		35-22-11-05Q-040	LOM 443, 444
		35-22-11-93-240	LOM 402, 406, 407, 411
		35-22-11-95A-105	LOM 443, 444

D. Location Zones

Zone	Area
200	Upper Half of Fuselage

E. Prepare for the Installation

SUBTASK 35-22-11-210-013-001

(1) Do these checks of the oxygen generator [42]:

(a) Make sure that the heat-sensitive band on the oxygen generator [42] is not black.

NOTE: If the heat-sensitive band is black, the oxygen generator has fired.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

WARNING MAKE SURE A RELEASE PIN OR A SAFETY PIN (WITH A WARNING FLAG) IS INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF A PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F/232°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (APPROXIMATELY ONE HOUR).

(b) Make sure that a safety pin [43] is installed in the firing pin.

NOTE: If the firing pin is in the fired position (the firing pin is against the percussion cap), the oxygen generator has fired or the firing mechanism is bad.

(c) Make sure that the oxygen generator [42] does not have these types of damage:

- dents
- pushed-in ends
- a bent or loose firing mechanism
- unusual noises when the oxygen generator [42] is shaken gently.

SUBTASK 35-22-11-210-014-001

(2) If the oxygen generator [42] is not serviceable, discard it.

SUBTASK 35-22-11-210-015-001

(3) If the oxygen generator [42] is serviceable, do the subsequent procedure.

F. LSU Oxygen Generator Installation

SUBTASK 35-22-11-010-018-001

(1) Go to the applicable Lavatory Service Unit (LSU) in the passenger compartment.

SUBTASK 35-22-11-820-003-001

CAUTION YOU MUST BE VERY CAREFUL WHEN YOU INSTALL AND REMOVE OXYGEN GENERATORS. DO NOT APPLY FORCE TO AN OXYGEN GENERATOR OR LET IT FALL. YOU CAN CAUSE DAMAGE THAT WILL PREVENT THE OPERATION OF THE OXYGEN GENERATOR.

CAUTION DO NOT TRY TO REMOVE THE FIRING MECHANISM FROM THE OXYGEN GENERATOR. YOU CANNOT ASSEMBLE IT AGAIN THUS IT IS DAMAGED.

(2) Put the oxygen generator [42] in its position with the safety pin [43] in the direction of the release cable.

NOTE: Some LSUs contain a placard, that specifies the location to align the release pin. If the placard is installed, align the release pin between the arrows on the placard. If the placard is not installed, center the release pin above the top of the No Smoking/Fasten Seat Belt Lamp Housing Assembly.

(a) Make sure that the safety pin [43], release pin, and firing pin do not touch the oxygen box [41].

SUBTASK 35-22-11-410-056-001

(3) Put the heat shield [47] and oxygen generator [42] in their positions in the oxygen box [41].

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(a) Install the screws [45].

SUBTASK 35-22-11-420-006-001

(4) Connect the oxygen mask supply lines to oxygen generator manifold [46] on the oxygen generator [42].

(a) Make sure that the oxygen supply lines are tightly connected to the oxygen generator manifold [46].

SUBTASK 35-22-11-440-006-001

(5) Do this task: Oxygen Generator Activation, TASK 35-22-11-400-811-001.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

OXYGEN MASK DOOR LATCH ACTUATOR - REMOVAL/INSTALLATION

1. General

A. This procedure has these tasks:

(1) PSU Door Latch Actuator Removal

(2) PSU Door Latch Actuator Installation

(3) ASU Door Latch Actuator Removal

(4) ASU Door Latch Actuator Installation

(5) LSU Door Latch Actuator Removal

(6) LSU Door Latch Actuator Installation.

B. The door latch actuator is a component part of the oxygen box. Oxygen boxes are in the passenger cabin in each of these LRUs:

(1) Passenger Service Unit (PSU)

(2) Attendant Service Unit (ASU)

(3) Lavatory Service Unit (LSU).

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426

(4) The removal of the door latch actuator is similar for each oxygen box, even though the construction of the oxygen boxes can be different.

LOM ALL

TASK 35-22-21-000-801-001

2. PSU Door Latch Actuator Removal

(Figure 401)

A. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-11-000-804-001	PSU Oxygen Generator Removal (P/B 401)
35-22-11-000-811-001	Oxygen Generator Deactivation (P/B 201)

B. Tools/Equipment

Reference	Description
STD-4241	Rod, 0.090 in (2.29 mm) to 0.125 in (3.18 mm) Diameter, 6 in (152 mm) length

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Procedure

SUBTASK 35-22-21-910-001-001

(1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 35-22-21-860-001-001

(2) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT

LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-999

F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

LOM ALL

SUBTASK 35-22-21-010-001-001

(3) Go to the applicable PSU in the passenger cabin.

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426

SUBTASK 35-22-21-040-007-001

(4) Do these steps to make sure the oxygen mask door does not accidentally open.

(a) Hold the oxygen mask door in the closed position.

(b) Pull down on the handle for the test stop assembly [1].

(c) Turn the handle 90 degrees.

(d) Release the handle.

LOM ALL

SUBTASK 35-22-21-010-002-001

(5) To get access to the PSU, do these steps to lower the PSU:

(a) Put a 0.090 in to 0.125 in diameter 6 in length rod, STD-4241, or the equivalent tool, in the latch access hole (2 locations).

(b) Push up on the rod to unlatch the cam latches.

(c) Lower the PSU.

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426

SUBTASK 35-22-21-020-001-001

(6) Disconnect the electrical connector for the door latch actuator [2].

LOM ALL

SUBTASK 35-22-21-040-002-001

WARNING

MAKE SURE A RELEASE PIN OR A SAFETY PIN (WITH A WARNING FLAG) IS INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF A PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F (230°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (APPROXIMATELY ONE HOUR).

(7) Do this task: Oxygen Generator Deactivation, TASK 35-22-11-000-811-001.

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426

SUBTASK 35-22-21-020-002-001

(8) Do these steps to remove the door latch actuator [2].

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)

(a) Remove the screw [3] and the washer [4] (2 locations) that attach the door latch actuator [2] to the test stop assembly.

1) Keep the screw [3] and the washer [4] for the installation.

(b) Remove the door latch actuator [2].

LOM 427-434, 437-447, 450-999

SUBTASK 35-22-21-010-011

(9) Remove the top cover from the oxygen mask box of the PSU. Then remove the oxygen masks from the mask box.

(a) Put the oxygen masks to the sides of the mask box.

SUBTASK 35-22-21-020-007

(10) Remove the oxygen generator to get access to the door latch actuator. Do the PSU Oxygen Generator Removal, TASK 35-22-11-000-804-001.

SUBTASK 35-22-21-020-008

(11) Do these steps to remove the door latch actuator [2].

(a) Disconnect the electrical connector of the door latch actuator [2].

(b) Remove the two screws [3]. Then remove the actuator.

LOM ALL

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

PASSENGER COMPARTMENT

PASSENGER SERVICE UNIT (PSU)
(EXAMPLE)

A

F79239 S0006577783_V2

PSU Door Latch Actuator Installation
Figure 401/35-22-21-990-801-001 (Sheet 1 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

DOOR LATCH ACTUATOR

B

F79240 S0006577784_V3

PSU Door Latch Actuator Installation
Figure 401/35-22-21-990-801-001 (Sheet 2 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

PASSENGER COMPARTMENT (EXAMPLE)

PASSENGER SERVICE UNIT (PSU)

A

1955722 S0000373120_V2

PSU Door Latch Actuator Installation
Figure 401/35-22-21-990-801-001 (Sheet 3 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

OXYGEN MASK BOX

B

1955724 S0000373121_V2

PSU Door Latch Actuator Installation
Figure 401/35-22-21-990-801-001 (Sheet 4 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 35-22-21-400-801-001

3. PSU Door Latch Actuator Installation

(Figure 401)

A. References

Reference	Title
25-23-61	PASSENGER SERVICE UNIT (PSU)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-00-700-802	Passenger Oxygen System - Manual Deploy Operational Test (P/B 501)
35-22-11-400-804-001	PSU Oxygen Generator Installation (P/B 401)
35-22-11-400-811-001	Oxygen Generator Activation (P/B 201)
35-22-31-000-804-001	ASU and LSU Oxygen Mask Packing (P/B 201)
35-22-31-440-801	PSU Oxygen Mask Packing (P/B 201)
WDM 35-21-41	Wiring Diagram Manual

B. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
COM-14099	Test Stop Key Assy Part #: 70698 Supplier: 16115

C. Consumable Materials

Reference	Description	Specification
G02311	Tape - Pressure Sensitive Adhesive, for Masking During Paint Stripping Operations	AMS-T-23397

D. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
2	Door latch actuator	35-22-21-01B-030	LOM 402
		35-22-21-28B-015	LOM 402, 404, 406, 416
		35-22-21-63K-015	LOM 407, 420
		35-22-21-63R-015	LOM 411
		35-22-21-63S-015	LOM 412, 415, 422-425
		35-22-21-64D-015	LOM 426
		35-22-21-64T-015	LOM 427-434, 437-442, 445-447, 450
		35-22-21-64T-020	LOM 427-434, 437-442, 445-447, 450
		35-22-21-64U-015	LOM 451
		35-22-21-64U-020	LOM 451
		35-22-21-64Y-015	LOM 461-464
		35-22-21-64Y-020	LOM 461-464

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(Continued)

AMM Item	Description	AIPC Reference	AIPC Effectivity
2 (cont.)		35-22-21-64Z-055	LOM 427, 428, 433, 434, 440, 442, 445, 450, 453, 454, 457
		35-22-21-64Z-060	LOM 427, 428, 433, 434, 440, 442, 445, 450, 453, 454, 457
		35-22-21-65F-055	LOM 429-432, 437-439, 441, 446, 447, 455, 456, 458-460, 465
		35-22-21-65F-060	LOM 429-432, 437-439, 441, 446, 447, 455, 456, 458-460, 465
		35-22-21-65G-055	LOM 443, 444, 451, 452
		35-22-21-65G-060	LOM 443, 444, 451, 452

E. Location Zones

Zone	Area
200	Upper Half of Fuselage

F. Procedure

SUBTASK 35-22-21-910-002-001

(1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-22-21-860-002-001

WARNING

MAKE SURE A RELEASE PIN OR A SAFETY PIN (WITH A WARNING FLAG) IS INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF A PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F (230°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (APPROXIMATELY ONE HOUR).

(2) Make sure the safety pin is installed in the oxygen generator.

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426

SUBTASK 35-22-21-420-001-001

(3) Do these steps to connect the door latch actuator [2] to the PSU.

(a) Put the door latch actuator [2] in position on the test stop assembly.

(b) Install the washer [4] and the screw [3] (two locations).

LOM 427-434, 437-447, 450-999

SUBTASK 35-22-21-420-009

(4) Do these steps to install the door latch actuator [2] to the PSU.

(a) Put the door latch actuator [2] in its installed position on the PSU.

(b) Install the two screws [3] to the door latch actuator and the PSU.

LOM ALL

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 35-22-21-420-002-001

(5) Attach the electrical connector for the door latch actuator [2].

(a) Attach the connector to the wires of the door latch actuator, if necessary (WDM 35-21-41).

LOM 427-434, 437-447, 450-999

SUBTASK 35-22-21-420-008

(6) Do these steps to close and latch the oxygen box door.

(a) Hold the oxygen mask door of the PSU to the almost closed position.

(b) If you used the test stop key assembly, COM-14099, disengage the tool from the door latch actuator.

(c) If you used the masking tape, G02311, remove the tape.

(d) Arm the door latch actuator. Turn the lever arm of the door latch to fully engage the magnet of the latch actuator

(e) Close the oxygen mask door until the door latch/actuator fully engages.

SUBTASK 35-22-21-410-011

(7) Do the PSU Oxygen Generator Installation, TASK 35-22-11-400-804-001.

SUBTASK 35-22-21-440-002

(8) Do the TASK 35-22-31-440-801 or TASK 35-22-31-000-804-001 to stow the oxygen masks.

LOM ALL

SUBTASK 35-22-21-860-003-001

WARNING MAKE SURE TO REMOVE THE SAFETY PIN FROM THE FIRING PIN ON THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL NOT FIRE IN AN EMERGENCY IF THE SAFETY PIN IS INSTALLED.

(9) Do this task: Oxygen Generator Activation, TASK 35-22-11-400-811-001.

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426

SUBTASK 35-22-21-440-001-001

(10) Do these steps to put the door test stop in the stowed position.

(a) Hold the oxygen mask door in the closed position.

(b) Pull down on the handle for the door test stop.

(c) Turn the handle 90 degrees.

(d) Release the handle into the slot.

(e) Make sure the handle is flush with the bottom of the PSU.

LOM ALL

SUBTASK 35-22-21-410-001-001

(11) To close the PSU, push the PSU panel up to engage the cam latches (PASSENGER SERVICE UNIT (PSU), SUBJECT 25-23-61).

NOTE: The latches will generally make a "click" sound when they fully engage.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 35-22-21-860-004-001

(12) Remove the safety tags and close these circuit breakers:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT

LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-999

F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

LOM ALL

SUBTASK 35-22-21-410-002-001

(13) Do this task: Passenger Oxygen System - Manual Deploy Operational Test, TASK 35-22-00-700-802.

END OF TASK

TASK 35-22-21-000-802-001

4. ASU Door Latch Actuator Removal

(Figure 402)

A. References

Reference	Title
25-23-13-000-801	Attendant/Lavatory Service Unit - Removal (P/B 401)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-11-000-811-001	Oxygen Generator Deactivation (P/B 201)

B. Procedure

SUBTASK 35-22-21-910-003-001

(1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-22-21-860-005-001

(2) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT

LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-999

F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

LOM ALL

SUBTASK 35-22-21-010-003-001

(3) Go to the applicable attendant service unit (ASU) located above the front and rear passenger exit doors.

SUBTASK 35-22-21-010-004-001

(4) Do this task: Attendant/Lavatory Service Unit - Removal, TASK 25-23-13-000-801.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 35-22-21-040-003-001

WARNING	MAKE SURE A RELEASE PIN OR A SAFETY PIN (WITH A WARNING FLAG) IS INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF A PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F (230°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (APPROXIMATELY ONE HOUR).

(5) Do this task: Oxygen Generator Deactivation, TASK 35-22-11-000-811-001.

SUBTASK 35-22-21-020-003-001

(6) Do these steps to remove the door latch actuator [22] from the removed oxygen box.

(a) Remove the screw [23] and the washer [24] (2 locations) that attach the door latch actuator [22] to the test stop assembly.

1) Keep the screws [23] and the washers [24] for the installation.

(b) Disconnect the door latch actuator electrical harness.

(c) Remove the door latch actuator [22].

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

**ATTENDANT SERVICE UNIT (ASU)
(EXAMPLE)**

F79242 S0006577787_V2

**ASU Door Latch Actuator Installation
Figure 402/35-22-21-990-802-001 (Sheet 1 of 3)**

ECCN 9E991 BOEING PROPRIETARY - See title page for details

ATTENDANT SERVICE UNIT (ASU)
(EXAMPLE)

OXYGEN BOX

A

D88973 S0000166054_V2

ASU Door Latch Actuator Installation
Figure 402/35-22-21-990-802-001 (Sheet 2 of 3)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

ATTENDANT SERVICE UNIT (ASU)
(EXAMPLE)

OXYGEN BOX

A

D88973 S0000166054_V2

ASU Door Latch Actuator Installation
Figure 402/35-22-21-990-802-001 (Sheet 3 of 3)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 35-22-21-400-802-001

5. ASU Door Latch Actuator Installation

(Figure 402)

A. References

Reference	Title
25-23-13-400-801	Attendant/Lavatory Service Unit - Installation (P/B 401)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-00-700-802	Passenger Oxygen System - Manual Deploy Operational Test (P/B 501)
35-22-11-400-811-001	Oxygen Generator Activation (P/B 201)

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
22	Door latch actuator	35-22-21-07D-085	LOM 416, 422, 425
		35-22-21-21-050	LOM 443, 444, 451, 452, 461-465
		35-22-21-25-120	LOM 427-434, 437-442, 445-447, 450, 453-460, 465
		35-22-21-26-060	LOM 443, 444, 451, 452, 461-464
		35-22-21-33-095	LOM 427-432, 437-439, 441, 445-447, 450, 455-460, 466-999
		35-22-21-89D-090	LOM 402, 406, 407, 411, 412, 415, 420, 423, 424
		35-22-21-91-090	LOM 404
		35-22-21-91B-095	LOM 426
		35-22-21-93-090	LOM 402, 404, 406, 407, 411, 422, 425
		35-22-21-93-240	LOM 402, 404, 406, 407, 411
		35-22-21-93A-090	LOM 412, 415, 420, 423, 424
		35-22-21-93B-095	LOM 426
		35-22-21-95-095	LOM 427-434, 437-442, 445-447, 450, 453-460, 465-999
		35-22-21-95A-090	LOM 443, 444, 451, 452, 461-464

C. Procedure

SUBTASK 35-22-21-910-004-001

(1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 35-22-21-860-006-001

> **WARNING**
> MAKE SURE A RELEASE PIN OR A SAFETY PIN (WITH A WARNING FLAG) IS INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF A PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F (230°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (APPROXIMATELY ONE HOUR).

(2) Make sure the safety pin is installed in the oxygen generator.

SUBTASK 35-22-21-420-003-001

(3) Do these steps to install the door latch actuator [22]:

(a) Put the door latch actuator [22] in position on the test stop assembly.

(b) Install the washers [24] and the screws [23] (2 locations).

(c) Connect the door latch actuator electrical harness.

SUBTASK 35-22-21-410-003-001

(4) Do this task: Attendant/Lavatory Service Unit - Installation, TASK 25-23-13-400-801.

SUBTASK 35-22-21-860-007-001

> **WARNING**
> MAKE SURE TO REMOVE THE SAFETY PIN FROM THE FIRING PIN ON THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL NOT FIRE IN AN EMERGENCY IF THE SAFETY PIN IS INSTALLED.

(5) Do this task: Oxygen Generator Activation, TASK 35-22-11-400-811-001.

SUBTASK 35-22-21-860-008-001

(6) Remove the safety tags and close these circuit breakers:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT

LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-999

F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

LOM ALL

SUBTASK 35-22-21-410-004-001

(7) Do this task: Passenger Oxygen System - Manual Deploy Operational Test, TASK 35-22-00-700-802.

END OF TASK

TASK 35-22-21-000-803-001

6. LSU Door Latch Actuator Removal

(Figure 403)

A. References

Reference	Title
25-23-13-000-801	Attendant/Lavatory Service Unit - Removal (P/B 401)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(Continued)

Reference	Title
35-22-11-000-811-001	Oxygen Generator Deactivation (P/B 201)
35-22-51-040-801	Oxygen Cylinder (CDS) Deactivation (P/B 201)

B. Procedure

SUBTASK 35-22-21-910-005-001

(1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-22-21-860-009-001

(2) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT

LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-999

F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

LOM ALL

SUBTASK 35-22-21-010-005-001

(3) Go to the applicable lavatory service unit (LSU) located in the ceiling of each lavatory.

SUBTASK 35-22-21-010-006-001

(4) Do this task: Attendant/Lavatory Service Unit - Removal, TASK 25-23-13-000-801.

LOM 411, 412, 415, 420, 423, 424, 426-431, 437-439, 441, 443, 444; LOM 402, 406, 407 PRE SB 737-35-1146

SUBTASK 35-22-21-040-004-001

WARNING

MAKE SURE A RELEASE PIN OR A SAFETY PIN (WITH A WARNING FLAG) IS INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF A PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F (230°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (APPROXIMATELY ONE HOUR).

(5) Do this task: Oxygen Generator Deactivation, TASK 35-22-11-000-811-001.

LOM 404, 416, 422, 425, 432-434, 440, 442, 445-447, 450-999; LOM 402, 406, 407 POST SB 737-35-1146

SUBTASK 35-22-21-040-008-001

(6) Do this task: Oxygen Cylinder (CDS) Deactivation, TASK 35-22-51-040-801.

LOM ALL

SUBTASK 35-22-21-020-004-001

(7) Do these steps to remove the door latch actuator [44] from the removed oxygen box [41].

(a) Remove the screw [42] and the washer [43] (2 locations) that attach the door latch actuator [44] to the test stop assembly.

1) Keep the screws [42] and the washers [43] for the installation.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(b) Disconnect the door latch actuator electrical harness.

(c) Remove the door latch actuator [44].

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

**LAVATORY SERVICE UNIT (LSU)
(AFT LSU IS SHOWN)
(EXAMPLE)**

H33268 S0006577792_V2

**LSU Door Latch Actuator Installation
Figure 403/35-22-21-990-803-001 (Sheet 1 of 2)**

ECCN 9E991 BOEING PROPRIETARY - See title page for details

**LAVATORY SERVICE UNIT (LSU)
(AFT LSU IS SHOWN)
(EXAMPLE)**

OXYGEN BOX

A

D88978 S0000166055_V2

**LSU Door Latch Actuator Installation
Figure 403/35-22-21-990-803-001 (Sheet 2 of 2)**

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 35-22-21-400-803-001

7. LSU Door Latch Actuator Installation

(Figure 403)

A. References

Reference	Title
25-23-13-400-801	Attendant/Lavatory Service Unit - Installation (P/B 401)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-00-700-802	Passenger Oxygen System - Manual Deploy Operational Test (P/B 501)
35-22-11-400-811-001	Oxygen Generator Activation (P/B 201)
35-22-51-440-801	Oxygen Cylinder (CDS) Activation (P/B 201)

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
44	Door latch actuator	35-22-21-02A-140	LOM 402, 406, 407, 416, 420
		35-22-21-02B-145	LOM 402, 406, 407, 411, 412, 415, 420
		35-22-21-02D-140	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420
		35-22-21-02E-140	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420
		35-22-21-02G-140	LOM 445
		35-22-21-02L-095	LOM 422-434, 437-442, 445-447
		35-22-21-02M-095	LOM 422-434, 437-442, 445-447
		35-22-21-02N-095	LOM 422-434, 437-442, 445-447
		35-22-21-02P-080	LOM 443, 444
		35-22-21-02Q-080	LOM 443, 444
		35-22-21-03D-040	LOM 402, 406, 407, 411, 412, 415, 416, 420, 423, 424, 426-431, 437-439, 441, 446, 447, 450, 453-460
		35-22-21-03E-065	LOM 402, 406, 407, 411, 412, 415, 420, 423, 424, 426-431, 437-439, 441, 446, 447, 450, 453-460
		35-22-21-03T-080	LOM 443, 444
		35-22-21-03V-080	LOM 443, 444, 451, 452, 461-464
		35-22-21-03W-080	LOM 443, 444, 451, 452, 461-464

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(Continued)

AMM Item	Description	AIPC Reference	AIPC Effectivity
44 (cont.)		35-22-21-03X-080	LOM 443, 444, 451, 452, 461-464

C. Procedure

SUBTASK 35-22-21-910-006-001

(1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

LOM 411, 412, 415, 420, 423, 424, 426-431, 437-439, 441, 443, 444; LOM 402, 406, 407 PRE SB 737-35-1146

SUBTASK 35-22-21-860-010-001

WARNING

MAKE SURE A RELEASE PIN OR A SAFETY PIN (WITH A WARNING FLAG) IS INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF A PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F (230°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (APPROXIMATELY ONE HOUR).

(2) Make sure the safety pin is installed in the oxygen generator.

LOM 404, 416, 422, 425, 432-434, 440, 442, 445-447, 450-999; LOM 402, 406, 407 POST SB 737-35-1146

SUBTASK 35-22-21-480-001-001

(3) Make sure the safety pin is installed in the oxygen cylinder.

LOM ALL

SUBTASK 35-22-21-420-004-001

(4) Do these steps to install the door latch actuator [44]:

(a) Put the door latch actuator [44] in position on the test stop assembly.

(b) Install the washers [43] and the screws [42] (2 locations).

(c) Connect the door latch actuator electrical harness.

SUBTASK 35-22-21-410-005-001

(5) Do this task: Attendant/Lavatory Service Unit - Installation, TASK 25-23-13-400-801.

LOM 411, 412, 415, 420, 423, 424, 426-431, 437-439, 441, 443, 444; LOM 402, 406, 407 PRE SB 737-35-1146

SUBTASK 35-22-21-860-011-001

WARNING

MAKE SURE TO REMOVE THE SAFETY PIN FROM THE FIRING PIN ON THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL NOT FIRE IN AN EMERGENCY IF THE SAFETY PIN IS INSTALLED.

(6) Do this task: Oxygen Generator Activation, TASK 35-22-11-400-811-001.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 404, 416, 422, 425, 432-434, 440, 442, 445-447, 450-999; LOM 402, 406, 407 POST SB 737-35-1146

SUBTASK 35-22-21-440-003-001

> **WARNING** REMOVE THE SAFETY PIN FROM THE OXYGEN CYLINDER. THE SAFETY PIN PREVENTS THE RELEASE OF OXYGEN. IF THE SAFETY PIN IS IN THE OXYGEN CYLINDER DURING AN EMERGENCY, THE OXYGEN SYSTEM WILL NOT OPERATE. THIS CAN CAUSE INJURIES TO PASSENGERS.

(7) Do this task: Oxygen Cylinder (CDS) Activation, TASK 35-22-51-440-801.

LOM ALL

SUBTASK 35-22-21-860-012-001

(8) Remove the safety tags and close these circuit breakers:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT
LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-999			
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

LOM ALL

SUBTASK 35-22-21-410-006-001

(9) Do this task: Passenger Oxygen System - Manual Deploy Operational Test, TASK 35-22-00-700-802.

——— END OF TASK ———

ECCN 9E991 BOEING PROPRIETARY - See title page for details

PASSENGER OXYGEN MASK - MAINTENANCE PRACTICES

1. General

A. This procedure contains scheduled maintenance task data.

B. This procedure contains these tasks:

(1) PSU Oxygen Mask Packing

(2) ASU and LSU Oxygen Mask Packing.

C. The procedure for packing of the passenger oxygen mask can be used for all of the masks. This includes the oxygen masks in the Passenger Service Unit (PSU)s, Attendant Service Unit (ASU)s and Lavatory Service Unit (LSU)s.

D. The oxygen mask packing is usually done on a bench or a clean flat surface. Oxygen mask packing can also be done on the airplane. This procedure contains information on packing oxygen masks on the airplane.

E. Persons that do the mask packing must do it in a clean environment.

F. Before you do maintenance on an oxygen system component that contains an oxygen generator you must install a safety pin in the generator firing mechanism. The safety pin will let the generator be handled and stored. If the safety pin is not installed, the oxygen generator can fire.

LOM 404, 416, 422, 425, 432-434, 440, 442, 445-447, 450-999; LOM 402, 406, 407 POST SB 737-35-1146

G. Before you do maintenance on an oxygen system component that contains an oxygen cylinder (CDS) you must install a safety pin in the actuator assembly. The safety pin will let the oxygen cylinder be handled and stored. If the safety pin is not installed, the oxygen cylinder can release oxygen.

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426

TASK 35-22-31-000-803-001

2. PSU Oxygen Mask Packing

(Figure 201, Figure 202)

A. References

Reference	Title
25-23-61-000-801	Passenger Service Unit (PSU) - Removal (P/B 201)
25-23-61-400-801	Passenger Service Unit (PSU) - Installation (P/B 201)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-11-000-811-001	Oxygen Generator Deactivation (P/B 201)
35-22-11-400-811-001	Oxygen Generator Activation (P/B 201)
35-22-31-000-801-001	PSU Oxygen Mask Removal (P/B 401)
35-22-31-400-801-001	PSU Oxygen Mask Installation (P/B 401)

B. Tools/Equipment

Reference	Description
STD-4241	Rod, 0.090 in (2.29 mm) to 0.125 in (3.18 mm) Diameter, 6 in (152 mm) length

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)

D. Prepare for the Packing

SUBTASK 35-22-31-910-006-001

(1) Read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-22-31-010-010-001

(2) Do one of the following steps to get access to the oxygen masks [3]:

(a) Remove the applicable Passenger Service Unit (PSU), do this task: Passenger Service Unit (PSU) - Removal, TASK 25-23-61-000-801.

(b) Do these steps to lower the PSU:

1) Put a rod into the latch access hole.

2) Push the rod up to release the cam latch.

3) Lower the PSU.

SUBTASK 35-22-31-010-011-001

WARNING

MAKE SURE THAT YOU INSTALL A RELEASE PIN OR A SAFETY PIN WITH THE WARNING FLAG INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR CAN ACTIVATE AND FIRE IF YOU REMOVE THE RELEASE PIN WHEN THE SAFETY PIN IS NOT INSTALLED. THIS DEVICE CAN BURN YOU WHEN ACTIVATED. WAIT ONE HOUR TO COOL IF ACTIVATED. IF YOU DO NOT FOLLOW, IT CAN CAUSE INJURY.

(3) Do this task: Oxygen Generator Deactivation, TASK 35-22-11-000-811-001.

SUBTASK 35-22-31-010-012-001

(4) Do these steps to remove the oxygen masks [3] from the mask boxes [5] of the PSU, only if you will stow the oxygen masks [3] using the PREFERRED instruction:

(a) Remove the mask box cover [1] from the applicable mask box [5].

(b) Carefully pull each oxygen mask [3] up through the top of the mask box [5].

1) Let the oxygen masks [3] hang from the side of the PSU and isolate each oxygen mask assembly.

(c) If the oxygen mask box door [6] of the mask box [5] is open, close the door, do these steps:

1) Push each test stop button up until you feel the test button engage the latch actuator of the oxygen mask box door [6].

a) Continue to push the test stop button to fully arm the actuator.

2) Put the test stop of the oxygen mask box door [6] to its usual position.

3) Close the oxygen mask box door [6].

SUBTASK 35-22-31-420-013

(5) Do these steps to remove the oxygen masks [3] from the mask boxes [5] of the PSU only if you will stow the masks using the ALTERNATE instruction:

(a) Make sure that the mask box covers [1] are fully installed.

(b) Close the PSU.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

1) Do not remove the safety pin and flag from the oxygen generator at this time.

(c) Retract the PSU to the closed position.

(d) Make sure that the rail latches of the PSU are fully engaged.

(e) Open the oxygen mask box door [6] of the PSU.

1) Put the 0.090 in to 0.125 in diameter 6 in length rod, STD-4241, into one of the two holes adjacent to the door test stop and push the tool up to release the oxygen mask box door [6].

(f) Let the oxygen masks [3] fall from the mask box [5] and isolate each oxygen mask assembly.

SUBTASK 35-22-31-210-006-001

(6) Do a check of the applicable oxygen masks [3]:

(a) Make sure that the oxygen masks [3] are not torn or damaged.

(b) Make sure that the oxygen masks [3] are clean and free of:

1) Dirt

2) Grease

3) Oil

4) Unwanted material.

SUBTASK 35-22-31-210-007-001

(7) Do a check of the applicable oxygen supply hoses [4]:

(a) Make sure that the oxygen supply hoses [4] are not damaged.

(b) Make sure that the oxygen supply hoses [4] are soft and flexible.

(c) Make sure that the color of the oxygen supply hoses [4] is clear and not deteriorated.

(d) Make sure that each oxygen mask [3] is held tight to the oxygen supply hose [4].

SUBTASK 35-22-31-900-003-001

(8) If an oxygen mask [3] or oxygen supply hose [4] is not serviceable, do these tasks:

- Remove the oxygen mask [3] (TASK 35-22-31-000-801-001)
- Install the oxygen mask [3] (TASK 35-22-31-400-801-001).

E. PSU Oxygen Mask Packing

SUBTASK 35-22-31-010-013-001

(1) Go to the applicable PSU in the passenger cabin.

SUBTASK 35-22-31-420-005-001

(2) Do these steps to fold an oxygen mask [3] (Figure 202):

(a) Prepare to fold the oxygen mask [3] (STEP 1, Figure 202):

1) Isolate all of the lanyards [2] and oxygen supply hoses [4].

2) Unfold and flatten the reservoir bag [8].

3) Put the head strap on the reservoir bag [8].

(b) Fold the oxygen mask [3] (STEP 2, Figure 202):

1) Fold the reservoir bag [8] in thirds, lengthwise, over the head strap.

(c) Position the reservoir bag [8] in the face piece:

ECCN 9E991 BOEING PROPRIETARY - See title page for details

1) Wrap the folded reservoir bag [8] up the side of the face piece (STEP 3, Figure 202).
2) Put the bag-to-hose connection in the center and bottom of the face piece (STEP 4, Figure 202).
3) Push the bag-to-hose connection to the one side of the face piece (STEP 4, Figure 202).

(d) Coil the oxygen supply hose [4] (STEP 5, Figure 202):
1) Start to wind the oxygen supply hose [4] in the inner side of the face piece cup.
2) Make sure that the oxygen supply hose [4] coils are on top of the reservoir bag [8].
3) Lightly push the oxygen supply hose [4] coils down fully against the inner wall of the face piece.
4) Keep the oxygen supply hose [4] coils below the top surface of the face piece.
5) Continue to wind the oxygen supply hose [4] in a coil to the flow indicator.
6) Keep the mask lanyard [2] out of the inner side of the face piece.

SUBTASK 35-22-31-410-001-001

(3) PREFERRED INSTRUCTION:

Do these steps to install the oxygen masks [3] in the TYPE 2B PSU (Figure 201):

NOTE: To prevent pressure on the masks' lanyard flange from the oxygen box cover, you can turn the oxygen mask to a small distance.

(a) Make sure that the split ring of each mask lanyard [2] is fully installed to the generator release cable [9].

(b) Make sure that the release cable [9] is fully installed to the release cable fitting [7] (View C, Figure 201).

(c) Put the oxygen masks [3] in the mask box [5]:
1) OXYGEN MASKS WITH STREAMERS:
a) Wind the streamer and its cord in a roll and put the streamer and cord roll on the oxygen mask box door [6].
2) UNDERBIN PSU's:
a) Align the mask assemblies horizontal to the oxygen mask box door [6] with the valves of the mask cup pointed to the oxygen generator.
b) Put the mask assembly in the mask box [5].
<1> Put the reservoir bag [8] on the oxygen mask box door [6] and valves of the mask cup pointed to the oxygen generator.
3) Put the loose part of the mask lanyards [2] on the top of the oxygen masks [3].

(d) Adjust the oxygen masks [3] to get a smooth bend radius in the mask tubing.

(e) Make sure that no part of the oxygen mask [3] or reservoir bag [8] goes on the manifold or cable.

(f) Install the mask box cover [1] to the mask box [5].

(g) Do the steps again to put another oxygen masks [3] in the mask box [5] of the PSU.

SUBTASK 35-22-31-410-009

(4) ALTERNATE INSTRUCTION:

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)

Do these steps to install the oxygen masks [3] in the TYPE 2B PSU (Figure 201):

NOTE: Two persons are necessary to do the alternative mask packing and installation steps. One person must hold the oxygen masks in the installed position when the second person closes the PSU door.

(a) Arm the door latch actuators, if it is necessary.

1) Align the test stop of the PSU to its usual position and push the test stop until you feel and hear the click of the actuator.

(b) Make sure that the split ring of each mask lanyard [2] is fully installed to the generator release cable [9].

(c) UNDERBIN PSU's:

1) Make sure that the release cable [9] is fully installed to the release cable fitting [7] (View C, Figure 201).

2) Put the oxygen mask [3] in the opposite mask box [5].

a) Put the open side of the oxygen mask [3] pointed down and reservoir bag [8] pointed to the oxygen generator.

b) Hold the oxygen masks [3] in their installed position in the mask box [5].

(d) OXYGEN MASKS WITH STREAMERS:

1) Wind the streamer and its cord in a roll and put the streamer and cord roll between the oxygen mask [3] and oxygen mask box door [6].

(e) Do these steps to close the oxygen mask box door [6]:

1) Hold the oxygen masks [3] in their installed positions in the mask box [5] and lift the oxygen mask box door [6] of the PSU panel to the almost closed position.

2) Move the oxygen mask box door [6] down to 1 in. (2.5 cm) - 2 in. (5.1 cm), then put the oxygen mask box door [6] to the almost closed position again.

a) Repeat this step two times minimum.

3) Make sure that the oxygen masks [3] and hose bundles move down, then up, with the oxygen mask box door [6].

NOTE: This is to make sure that the oxygen masks will release from the PSU mask box when the door opens.

CAUTION	DO NOT CATCH THE OXYGEN MASK ITEMS BETWEEN THE DOOR AND THE OXYGEN BOX. DO NOT CATCH THE OXYGEN MASK ITEMS BETWEEN THE DOOR AND THE ACTUATOR MOUNTING BRACKET. MAKE SURE THAT NO ITEMS ARE CAUGHT. IF YOU CATCH THE OXYGEN MASK ITEMS, YOU CAN CAUSE DAMAGE TO THE ITEMS.

4) Close the oxygen mask box door [6] of the PSU panel until the door latches are fully engaged and release the door.

a) Make sure that the oxygen mask box door [6] is aligned (faired) with the mask box [5].

NOTE: If the door is not aligned (faired), this shows that part(s) of the mask assembly is between the door and the mask box or door latch/actuator.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)

SUBTASK 35-22-31-440-001-001

(5) Do this task: Oxygen Generator Activation, TASK 35-22-11-400-811-001.

SUBTASK 35-22-31-210-008-001

(6) Do these steps to check the installation of the oxygen masks [3]:

(a) Make sure that all of the mask lanyard [2] rings are attached to the release cable [9].

(b) Do a check of the release cable [9] routing.

1) Make sure that the release pin will pull away from the oxygen generator firing mechanism when the oxygen masks [3] are deployed.

(c) Make sure that the oxygen supply hoses [4] are not bent too much or crimped.

(d) Make sure that the mask lanyards [2] are not wound around a hose, end clip, or other object.

(e) Make sure that no part of the oxygen mask [3] or reservoir bag [8] goes above the oxygen supply manifold or release cable [9].

(f) Make sure that all the temporary rubber bands are removed from the oxygen mask assemblies.

(g) Make sure that the oxygen mask box door [6] is aligned with the adjacent PSU surfaces.

1) Make sure that the oxygen equipment is not between the oxygen mask box door [6] and adjacent PSU structure.

NOTE: If the door is not aligned (faired), this shows that part(s) of the mask assembly is between the door and the oxygen box or door latch/actuator.

SUBTASK 35-22-31-410-002-001

(7) Do one of the following step:

(a) If the PSU was removed, install the PSU, do this task: Passenger Service Unit (PSU) - Installation, TASK 25-23-61-400-801.

(b) If the PSU was lowered, close the PSU.

1) Push the PSU panel up to engage the cam latches.

NOTE: The latches will make a click noise when they fully engaged.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

PASSENGER COMPARTMENT

PASSENGER SERVICE UNIT (PSU)

A

F79027 S0006577803_V3

PSU Oxygen Mask Packing Procedure
Figure 201/35-22-31-990-803-001 (Sheet 1 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

PSU Oxygen Mask Packing Procedure
Figure 201/35-22-31-990-803-001 (Sheet 2 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

MASK PACKING
(PREFERRED INSTALLATION)

C

1924709 S0000361849_V2

PSU Oxygen Mask Packing Procedure
Figure 201/35-22-31-990-803-001 (Sheet 3 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

MASK PACKING
(ALTERNATE INSTALLATION)

D

1925432 S0000361850_V2

PSU Oxygen Mask Packing Procedure
Figure 201/35-22-31-990-803-001 (Sheet 4 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

STEP 1

STEP 2

PREPARATION OF MASK ASSEMBLY

G21365 S0006577819_V2

Oxygen Mask Packing Procedure
Figure 202/35-22-31-990-812 (Sheet 1 of 3)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

G21368 S0006577820_V2

Oxygen Mask Packing Procedure
Figure 202/35-22-31-990-812 (Sheet 2 of 3)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

1 INSTALLATIONS WITH OXYGEN MASK STREAMERS

G21373 S0006577821_V2

Oxygen Mask Packing Procedure
Figure 202/35-22-31-990-812 (Sheet 3 of 3)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 427-434, 437-447, 450-999

TASK 35-22-31-440-801

3. PSU Oxygen Mask Packing

(Figure 203, Figure 204)

A. References

Reference	Title
25-23-61-000-804	Passenger Service Unit - Removal (P/B 401)
25-23-61-400-804	Passenger Service Unit - Installation (P/B 401)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-11-000-811-001	Oxygen Generator Deactivation (P/B 201)
35-22-11-400-811-001	Oxygen Generator Activation (P/B 201)
35-22-31-000-801-001	PSU Oxygen Mask Removal (P/B 401)
35-22-31-400-801-001	PSU Oxygen Mask Installation (P/B 401)

B. 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. Prepare for the Packing

SUBTASK 35-22-31-910-014

(1) Read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance.

(a) Do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-22-31-010-030

(2) Get access to the oxygen generator and oxygen mask box.

(a) Do one of the following steps:

1) Remove the applicable Passenger Service Unit (PSU), do this task: Passenger Service Unit - Removal, TASK 25-23-61-000-804.

2) Do these steps to lower the PSU:

a) Put a rod into the latch access hole.

b) Push the rod up to release the cam latch.

c) Lower the PSU.

SUBTASK 35-22-31-040-006

(3) Do this task: Oxygen Generator Deactivation, TASK 35-22-11-000-811-001.

SUBTASK 35-22-31-010-029

(4) For the PREFERRED method, do these steps to position the oxygen masks out of the oxygen mask box:

NOTE: Do not disconnect the oxygen masks.

(a) Remove the mask box cover from the oxygen mask box.

1) Keep the mask box cover for the installation.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(b) Pull each oxygen mask, with its oxygen supply line and lanyard, up through the top of the oxygen mask box.

(c) Isolate each of the oxygen masks then put the oxygen masks to the side of the PSU oxygen box.

1) Put the outboard tandem oxygen hoses above the top of the oxygen box.

SUBTASK 35-22-31-420-016

(5) For the PREFERRED method, do these steps to close and latch the oxygen box door, if it is necessary.

(a) Hold the oxygen mask door of the PSU to the almost closed position.

(b) Arm the door latch actuator and turn the lever of the door latch.

1) Fully engage the magnet of the latch actuator.

(c) Close the oxygen mask door until the door latch/actuator fully engages.

SUBTASK 35-22-31-410-035-001

(6) Do these steps to remove the masks from the mask box(es) of the PSU only if you will stow the masks using the ALTERNATE method:

(a) Make sure that the top covers of the PSU oxygen boxes are fully installed and close the PSU.

1) Do not remove the safety pin and flag from the oxygen generator at this time.

(b) Retract the PSU to the closed position.

(c) Make sure that the rail latches of the PSU are fully engaged.

(d) Open the oxygen mask door of the PSU.

1) Put the 0.090 in to 0.125 in diameter 6 in length rod, STD-4241, into one of the two holes adjacent to the door test stop.

2) Push the tool up to release the door.

(e) Let the oxygen masks fall from the oxygen box.

(f) Isolate each oxygen mask assembly.

SUBTASK 35-22-31-210-032

(7) Do a check of the applicable oxygen mask(s):

(a) Make sure that the oxygen masks are not damaged.

(b) Make sure that the oxygen masks are clean and free from:

1) dirt

2) grease

3) oil

4) unwanted material.

SUBTASK 35-22-31-210-033

(8) Do a check of the oxygen supply hose of each mask assembly:

(a) Make sure that the oxygen supply hose is not damaged.

(b) Make sure that the oxygen supply hose is soft and flexible.

(c) Make sure that the color of the oxygen supply hose is clear.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(d) Make sure that the oxygen supply hose is fully connected to the reservoir bag of the mask assembly.

SUBTASK 35-22-31-900-009

(9) If an oxygen mask or oxygen supply hose is not serviceable, do these tasks:

- PSU Oxygen Mask Removal, TASK 35-22-31-000-801-001
- PSU Oxygen Mask Installation, TASK 35-22-31-400-801-001.

E. PSU Oxygen Mask Packing

SUBTASK 35-22-31-420-017

(1) Do these steps to fold an oxygen mask tandem (Figure 203):

NOTE: A mask tandem is two masks prepared as a one unit for stowage in the oxygen box.

(a) STEP 1 - Prepare to fold the oxygen mask:

1) Isolate all of the lanyards and oxygen supply hoses.
2) Put the reservoir bag of each oxygen mask flat.
3) Put the head strap on the reservoir bag.
4) Put the mask lanyard to the opposite side of the reservoir bag.

(b) STEP 2:

1) Fold the outer 1/3 length of the reservoir bag to the center of the reservoir bag.
2) Fold the opposite 1/3 length of the reservoir bag to the center.

(c) STEP 3 - Assemble the mask tandems:

1) Divide the two mask tandems and identify the inboard set.
2) Align the reservoir bags of one mask above the reservoir bag of the second mask.
3) Put the face cup of one mask into the face cup of the second mask.
   a) Lightly pull the lanyard ring of the inner mask from between the two mask face cups of the tandem.
   b) Fully extend the lanyard of the inner mask from between the face cups of the two masks.

(d) STEP 4:

1) Fully extend the two folded reservoir bags of the tandem to one side of the two masks.
2) Fold the two reservoir bags at the center.
3) Put the ends of the two reservoir bags opposite the face cups in the inner part of the top face cup.
4) Fold the two reservoir bags at the center again and put the ends of the two folded reservoir bags in the inner part of the top face cup.
5) Make sure that the sequence of the lanyard rings on the generator release cable is the same as the sequence of the masks.

(e) STEP 5

1) Wind the two oxygen supply hoses in a coil in the inner side of the top face cup.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

2) Let the last 10 ±1 in. (25.4 ±1.3 cm) of the supply hoses stay out of the face cup.

NOTE: The coiling direction depends on the position of the mask tandem in the oxygen box.

3) Put the tandem on the door in the bottom of the oxygen box near the speaker.

(f) Do the steps again for the remaining two mask assemblies.

F. Stow the Mask Tandems in the Oxygen Mask Box

SUBTASK 35-22-31-210-034

(1) Do these steps to install the oxygen masks in the TYPE 2B PSU, PREFERRED method (Figure 204):

NOTE: To prevent pressure on the masks' lanyard flange from the oxygen box cover, you can turn the oxygen masks a small distance.

(a) Make sure that the lanyard ring of each mask lanyard is fully installed to the generator release cable.

(b) Isolate the mask tandem with their lanyard rings installed to the highest part of the generator release cable.

1) Align the mask tandem number one with the face cups vertical and valves end of the face cups pointed to the door (View B, Figure 204).

a) Turn the mask tandem to put the reservoir bags of the masks to the center of the mask box.

b) Put the mask tandem one in the mask box with the valves of the face cups against the mask box door.

c) Put the mask tandem one against the side of the mask box with the release cable window.

2) Align the face cups of the mask tandem number two horizontal to the mask box (View C, Figure 204).

a) Turn this mask tandem to put the folded reservoir bags to the top of the tandem.

b) Put this mask tandem in the mask box with the open side of the face cups pointed to the box center.

c) Make sure that the two grommets are fully installed to the mask box.

d) Make sure that the oxygen supply hoses are fully installed in the grommets.

3) Install the mask box cover to the top of the oxygen mask box.

a) Attach the hooks that are near the generator first.

b) Make sure that the lanyard is attached to the rail.

4) Make sure that the four oxygen supply hoses are fully connected to the oxygen manifold of the oxygen generator.

a) Make sure that the oxygen supply hoses are fully installed to the supply hose clips of the PSU assembly.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 427-434, 437-447, 450-999 (Continued)

SUBTASK 35-22-31-210-035

(2) Do these steps to install the oxygen masks in the TYPE 2B PSU, ALTERNATE method (Figure 204):

NOTE: Two persons are necessary to do the alternative mask packing and installation steps. One person must hold the oxygen masks in the installed position while the second person closes the PSU door.

(a) Separate the masks into the inboard mask tandem and outboard mask tandem, hoses and lanyards, so that each person is working with one set of masks.

(b) If it is necessary, push the plunger in the forward direction to reset the actuator.

NOTE: If the door is manually triggered this is not required.

(c) Check for the proper mask stacking order by separating the lanyards.

(d) Put one of the inboard masks inside of the other inboard mask.

(e) Refold the reservoir bag in half and then in quarters.

(f) Coil the mask tubing inside the mask cup from middle to outside and out.

NOTE: In this location (left hand assembly) clockwise is correct. The direction will be reversed for the opposite (right hand) assembly, but the orientation will be consistent.

(g) Put the inboard mask tandem vertically into the mask box with the reservoir bag oriented toward the middle of the box and lanyard attachment point oriented toward the inboard end of the box.

(h) Put the outboard tandem similar to inboard tandem with the exception that the coils should be wrapped counter clockwise.

1) Make sure that the flow indicators are positioned parallel to the reservoir bag.

(i) Put the outboard tandem masks into the mask box horizontally with the reservoir bag oriented on the bottom and lanyards next to the door.

(j) If streamer is attached, accordion-wrap entire streamer and hold against bottom of mask.

(k) Position the wrapped streamer between door and bottom mask.

(l) Partially close the door so that the masks (and streamer if applicable) rest on it.

1) Gather the mask lanyards and lay them down across the hinge and inboard side of the door and close.

G. Put the Airplane Back to Its Usual Condition

SUBTASK 35-22-31-440-004

(1) Do this task: Oxygen Generator Activation, TASK 35-22-11-400-811-001.

SUBTASK 35-22-31-410-011

(2) Close the access to the oxygen generator and oxygen mask box.

(a) If the PSU was removed, install the PSU, do this task: Passenger Service Unit - Installation, TASK 25-23-61-400-804.

(b) If the PSU was lowered, do this step:

1) Push the PSU panel up to engage the cam latches.

NOTE: The latches will make a click noise when they fully engaged.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

STEP 1

STEP 2

PREPARATION OF MASK ASSEMBLY

1957370 S0000373814_V2

Oxygen Mask Packing Procedure
Figure 203/35-22-31-990-813 (Sheet 1 of 5)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

STEP 3
MASK TANDEM 1

1 A TANDEM IS TWO MASKS PREPARED AS A ONE UNIT FOR STOWAGE IN THE OXYGEN BOX

1957376 S0000373815_V2

Oxygen Mask Packing Procedure
Figure 203/35-22-31-990-813 (Sheet 2 of 5)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

STEP 4

STEP 4

1957390 S0000373816_V2

Oxygen Mask Packing Procedure
Figure 203/35-22-31-990-813 (Sheet 3 of 5)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

STEP 5

2 COIL DIRECTION IS DEPENDENT ON THE POSITION OF THE MASK TANDEM IN THE OXYGEN BOX.

1977593 S0000373834_V4

Oxygen Mask Packing Procedure
Figure 203/35-22-31-990-813 (Sheet 4 of 5)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

1 INSTALLATIONS WITH OXYGEN MASK STREAMERS

G21373 S0006577821_V2

Oxygen Mask Packing Procedure
Figure 203/35-22-31-990-813 (Sheet 5 of 5)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

PASSENGER COMPARTMENT (EXAMPLE)

PASSENGER SERVICE UNIT (PSU)

A

1977913 S0000382145_V3

PASSENGER SERVICE UNIT (PSU) OXYGEN MASK PACKING
Figure 204/35-22-31-990-814 (Sheet 1 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

OXYGEN MASK TANDEMS (TANDEM ONE)
(MASK BOX COVER AND OXYGEN GENERATOR NOT SHOWN)
(PREFERRED INSTALLATION)

B

1977972 S0000382146_V3

PASSENGER SERVICE UNIT (PSU) OXYGEN MASK PACKING
Figure 204/35-22-31-990-814 (Sheet 2 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

OXYGEN MASK TANDEMS (TANDEM ONE AND TWO) (PREFERRED INSTALLATION)

C

1979083 S0000382147_V3

PASSENGER SERVICE UNIT (PSU) OXYGEN MASK PACKING
Figure 204/35-22-31-990-814 (Sheet 3 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

OXYGEN MASK TANDEMS
(ALTERNATE INSTALLATION)

D

3024060 S0000795891_V1

PASSENGER SERVICE UNIT (PSU) OXYGEN MASK PACKING
Figure 204/35-22-31-990-814 (Sheet 4 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 35-22-31-000-804-001

4. ASU and LSU Oxygen Mask Packing

(Figure 205, Figure 206, Figure 207)

A. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-11-000-811-001	Oxygen Generator Deactivation (P/B 201)
35-22-11-400-811-001	Oxygen Generator Activation (P/B 201)
35-22-31-000-802-001	ASU and LSU Oxygen Mask Removal (P/B 401)
35-22-31-000-807-001	ASU Oxygen Mask Removal (P/B 401)
35-22-31-000-808-001	LSU Oxygen Mask Removal (P/B 401)
35-22-51-040-801	Oxygen Cylinder (CDS) Deactivation (P/B 201)
35-22-51-440-801	Oxygen Cylinder (CDS) Activation (P/B 201)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Prepare for the ASU and LSU Oxygen Mask Packing

SUBTASK 35-22-31-910-007-001

(1) To read and obey the safety precautions and general instructions for the oxygen system before the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-22-31-010-014-001

(2) If it is necessary, do these steps to open an Attendant Service Unit (ASU) oxygen box (Figure 206):

(a) Go to the applicable forward or aft ASU, above the exit doors.

(b) Put a tool into the latch access hole.

(c) Push up on the tool to operate the door latch.

(d) Open the oxygen box door.

(e) Let the oxygen masks fall.

(f) Do not pull on the oxygen masks.

NOTE: If you pull on the oxygen masks, the oxygen generator will fire.

SUBTASK 35-22-31-010-016-001

(3) If it is necessary, do these steps to open a Lavatory Service Unit (LSU) oxygen box (Figure 207):

(a) Go to the applicable LSU, found in the ceiling of each lavatory.

(b) Put a tool into the latch access hole.

(c) Push up on the tool to operate the door latch.

(d) Open the oxygen box door.

(e) Let the oxygen masks fall.

(f) Do not pull on the oxygen mask lanyard.

NOTE: If you pull on the oxygen mask lanyard, the oxygen generator will fire.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 35-22-31-040-003-001

WARNING	MAKE SURE A RELEASE PIN OR A SAFETY PIN (WITH A WARNING FLAG) IS INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF A PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F/232°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (APPROXIMATELY ONE HOUR).

(4) To deactivate the oxygen generator, do this task: TASK 35-22-11-000-811-001.

LOM 404, 416, 422, 425, 432-434, 440, 442, 445-447, 450-999; LOM 402, 406, 407 POST SB 737-35-1146

SUBTASK 35-22-31-040-016-001

(5) To deactivate the oxygen cylinder, do this task: Oxygen Cylinder (CDS) Deactivation, TASK 35-22-51-040-801.

LOM ALL

SUBTASK 35-22-31-210-009-001

(6) Do a check of the applicable oxygen masks:

(a) Make sure that the oxygen masks are not torn or damaged.

(b) Make sure that the oxygen masks are clean and free from contamination such as:

1) Dirt

2) Grease

3) Oil

4) Unwanted material.

SUBTASK 35-22-31-210-010-001

(7) Do a check of the applicable oxygen supply hoses:

(a) Make sure that the oxygen supply hoses are not torn or damaged.

(b) Make sure that the oxygen supply hoses are soft and flexible.

(c) Make sure that the color of the oxygen supply hoses have not deteriorated.

(d) Make sure that each mask is held securely to the oxygen supply hose.

SUBTASK 35-22-31-900-004-001

(8) If an oxygen mask or oxygen supply hose is not serviceable, do this task: ASU and LSU Oxygen Mask Removal, TASK 35-22-31-000-802-001 or ASU Oxygen Mask Removal, TASK 35-22-31-000-807-001 or LSU Oxygen Mask Removal, TASK 35-22-31-000-808-001.

D. ASU and LSU Oxygen Mask Packing

SUBTASK 35-22-31-010-017-001

(1) Go to the applicable ASU or LSU in the passenger cabin.

SUBTASK 35-22-31-420-006-001

(2) Do these steps to fold an oxygen mask (Figure 205):

NOTE: Fold one mask at a time and then put the folded mask in the oxygen mask box. Continue with the remaining oxygen masks.

(a) STEP 1 - Prepare to fold the oxygen mask:

1) Isolate all of the lanyards and oxygen supply hoses.

2) Unfold and flatten the reservoir bag.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

3) Put the headstrap on the reservoir bag.

(b) STEP 2 - Fold the oxygen mask:

1) Fold the bag in thirds, lengthwise, over the headstrap.

(c) STEP 3 AND STEP 4 - Position the reservoir bag in the face piece:

1) Wrap the folded reservoir bag up the side of the facepiece (STEP 3).
2) Put the bag-to-hose connection in the center and bottom of the facepiece (STEP 4).
3) Push the bag-to-hose connection to the left side of the facepiece (STEP 4).

(d) STEP 5 - Coil the oxygen supply hose:

1) Start to coil the supply hose counterclockwise in the facepiece cup.
2) Make sure that the supply hose is coiled on top of the reservoir bag.
3) Press the supply hose firmly down and against the inside wall of the facepiece.
4) Keep the supply hose coil below the top surface of the facepiece.
5) Continue to coil the supply hose to the flow indicator.
6) Leave the lanyard out of the facepiece.
7) If the mask has a lanyard attached to the supply hose, put the lanyard over the facepiece (STEP 6).
8) If the mask has a lanyard attached to the facepiece, leave the lanyard out of the mask (STEP 7 AND STEP 8).
9) If the mask has a streamer attached, do not fold the streamer and streamer cord until after you position the mask in the ASU or LSU (STEP 7 AND STEP 8).

SUBTASK 35-22-31-410-003-001

(3) Do these steps to install the ASU oxygen masks in the oxygen box (Figure 206):

NOTE: One or two people can do the packing procedure.

(a) To make the packing procedure easier, two pieces of masking tape between the ceiling panel and the oxygen box door can be applied to hold the door partially open.

1) Make sure that there is enough space to put the oxygen masks on the top of the oxygen box door.

(b) Turn the folded oxygen mask until the open end of the facepiece is up.

(c) Put the coiled oxygen mask in the oxygen box against the oxygen generator (open end of the facepiece against the oxygen generator).

WARNING

DO NOT YOU PUSH THE OXYGEN MASKS TOO FAR INTO THE OXYGEN BOX. THE OXYGEN MASKS CAN CATCH BETWEEN THE OXYGEN GENERATOR AND THE OXYGEN BOX STRUCTURE. IF THEY CATCH AGAINST THE OXYGEN GENERATOR, THEY WILL NOT COME DOWN DURING AN EMERGENCY. THIS WILL CAUSE INJURIES TO PASSENGERS.

(d) Make sure that the oxygen mask is free to drop straight down and out of the oxygen box.

(e) Hold the oxygen mask in this position and do the previous steps again for the other oxygen mask.

(f) Make sure that the oxygen masks and cable routing will not keep the oxygen box door in the open position.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

1) If it is necessary, move the oxygen masks so the door is not kept in the open position.

SUBTASK 35-22-31-410-033-001

(4) Do these steps to install the Aft LSU oxygen masks in the oxygen box (Figure 207):

NOTE: One or two people can do the packing procedure.

(a) To make the packing procedure easier, two pieces of masking tape between the ceiling panel and the oxygen box door can be applied to hold the door partially open.

1) Make sure that there is enough space to put the oxygen masks on the top of the oxygen box door.

(b) Turn the folded oxygen mask until the open end of the facepiece is up.

(c) For a LSU with chemical oxygen generator, do these steps:

1) Put the coiled oxygen mask in the oxygen box against the oxygen generator (open end of the facepiece against the oxygen generator).

(d) For a LSU with Constant Dispensing System (CDS) oxygen, do these steps:

1) Put the coiled oxygen mask in the oxygen box (open end of the facepiece against the top surface of the oxygen box).

WARNING	DO NOT YOU PUSH THE OXYGEN MASKS TOO FAR INTO THE OXYGEN BOX. THE OXYGEN MASKS CAN CATCH BETWEEN THE OXYGEN GENERATOR AND THE OXYGEN BOX STRUCTURE. IF THEY CATCH AGAINST THE OXYGEN GENERATOR, THEY WILL NOT COME DOWN DURING AN EMERGENCY. THIS WILL CAUSE INJURIES TO PASSENGERS.

(e) Make sure that the oxygen mask is free to drop straight down and out of the oxygen box.

(f) Hold the oxygen mask in this position and do the previous steps again for the other oxygen mask.

(g) Make sure that the oxygen masks and cable routing will not keep the oxygen box door in the open position.

1) If it is necessary, move the oxygen masks so the door is not kept in the open position.

SUBTASK 35-22-31-410-034-001

(5) Do these steps to install the Forward LSU oxygen masks in the oxygen box (Figure 207):

NOTE: One or two people can do the packing procedure.

(a) To make the packing procedure easier, two pieces of masking tape between the ceiling panel and the oxygen box door can be applied to hold the door partially open.

1) Make sure that there is enough space to put the oxygen masks on the top of the oxygen box door.

(b) Turn the folded oxygen mask until the open end of the facepiece is up.

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-442, 445-447, 450, 453-460, 465-999

(c) Put the coiled oxygen mask in the oxygen box (open end of the facepiece against the top surface of the oxygen box).

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 443, 444, 451, 452, 461-464

(d) Put the coiled oxygen mask in the oxygen box (closed end of the masks towards cross support).

LOM ALL

(e) Position the oxygen mask with the reservoir bag away from the oxygen generator.

WARNING	DO NOT YOU PUSH THE OXYGEN MASKS TOO FAR INTO THE OXYGEN BOX. THE OXYGEN MASKS CAN CATCH BETWEEN THE OXYGEN GENERATOR AND THE OXYGEN BOX STRUCTURE. IF THEY CATCH AGAINST THE OXYGEN GENERATOR, THEY WILL NOT COME DOWN DURING AN EMERGENCY. THIS WILL CAUSE INJURIES TO PASSENGERS.

(f) Make sure that the oxygen mask is free to drop straight down and out of the oxygen box.

(g) Hold the oxygen mask in this position and do the previous steps again for the other oxygen mask.

(h) Make sure that the oxygen masks and cable routing will not keep the oxygen box door in the open position.

1) If it is necessary, move the oxygen masks so the door is not kept in the open position.

SUBTASK 35-22-31-420-007-001

(6) Do these steps to pack the streamer and streamer cord:

(a) Hold the oxygen masks in position.

(b) Fold the streamer lengthwise in segments approximately 2 in. (51 mm) long.

(c) Loosely coil the streamer cord lengthwise around the streamer.

(d) Continue to coil the streamer cord all the way to the oxygen mask.

(e) Put the coiled streamer on the bottom of the closed end of the facepiece.

(f) Hold the streamer and oxygen mask in position while coiling the other streamer.

(g) Make sure that the coiled streamer is positioned to fall first when the oxygen box door is opened during an emergency.

NOTE: The weight of the streamer will help the oxygen mask and supply line fall out of the box during an emergency.

LOM 404, 416, 422, 425, 432-434, 440, 442, 445-447, 450-999; LOM 402, 406, 407 POST SB 737-35-1146

SUBTASK 35-22-31-440-009-001

(7) To activate the oxygen cylinder, do this task: Oxygen Cylinder (CDS) Activation, TASK 35-22-51-440-801.

LOM ALL

SUBTASK 35-22-31-210-011-001

(8) Do this task: Oxygen Generator Activation, TASK 35-22-11-400-811-001.

SUBTASK 35-22-31-210-013-001

(9) Do these steps to check the installation of the oxygen masks:

(a) Make sure that all of the mask lanyard rings are attached to the release cable.

(b) Do a check of the release cable routing to make sure that the release pin will pull away from the oxygen generator firing mechanism when the oxygen masks are deployed.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(c) Make sure that the supply hoses are not bent too much or crimped.

(d) Make sure that the mask lanyards are not wrapped around a hose, elastic band, end clip, streamer, or other object.

(e) Make sure that no part of the oxygen mask or the reservoir bag goes over the oxygen supply manifold or the release cable.

(f) Make sure that the steamer and oxygen mask are free to fall when the door is opened during an emergency.

(g) Do this check (optional):

1) Close the oxygen box door to within ½ in. (13 mm) of being closed and then slightly open the door.

2) Make sure that the oxygen masks partially fall down with the door to make sure that the oxygen masks are free to fall.

SUBTASK 35-22-31-410-004-001

(10) Do these steps to close the oxygen box door:

(a) Hold the oxygen box door.

(b) Remove the masking tape from the oxygen box door (if it was installed).

(c) Push the reset lever on the latch actuator plunger to set the actuator again.

(d) Close and latch the oxygen box door.

(e) Do a visual check of the door alignment to make sure that the oxygen equipment is not caught in the oxygen box door or in the actuator.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

STEP 1

STEP 2

PREPARATION OF MASK ASSEMBLY

G21365 S0006577819_V2

Oxygen Mask Packing Procedure
Figure 205/35-22-31-990-806-001 (Sheet 1 of 3)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

G21368 S0006577820_V2

Oxygen Mask Packing Procedure
Figure 205/35-22-31-990-806-001 (Sheet 2 of 3)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

1 INSTALLATIONS WITH OXYGEN MASK STREAMERS

G21373 S0006577821_V2

Oxygen Mask Packing Procedure
Figure 205/35-22-31-990-806-001 (Sheet 3 of 3)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

1505045 S0000274657_V3

ASU Oxygen Mask Packing Procedure
Figure 206/35-22-31-990-804-001 (Sheet 1 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

OXYGEN MASK
(OXYGEN BOX INSTALLED)

C

NOTE:

IF THE OXYGEN MASKS ARE PUSHED TOO FAR INTO THE OXYGEN BOX, THE OXYGEN MASKS CAN GET CAUGHT BETWEEN THE OXYGEN GENERATOR AND THE OXYGEN BOX STRUCTURE. IF THE OXYGEN MASKS ARE CAUGHT AGAINST THE OXYGEN GENERATOR, THE MASKS WILL NOT DROP IN AN EMERGENCY.

OXYGEN MASK

C

1505006 S0000274655_V2

ASU Oxygen Mask Packing Procedure
Figure 206/35-22-31-990-804-001 (Sheet 2 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

ASU Oxygen Mask Packing Procedure
Figure 206/35-22-31-990-804-001 (Sheet 3 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

H30998 S0006577812_V5

ASU Oxygen Mask Packing Procedure
Figure 206/35-22-31-990-804-001 (Sheet 4 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

G21362 S0006577814_V3

LSU Oxygen Mask Packing Procedure
Figure 207/35-22-31-990-805-001 (Sheet 1 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LSU Oxygen Mask Packing Procedure
Figure 207/35-22-31-990-805-001 (Sheet 2 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LSU Oxygen Mask Packing Procedure
Figure 207/35-22-31-990-805-001 (Sheet 3 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

3017162 S0000789753_V1

LSU Oxygen Mask Packing Procedure
Figure 207/35-22-31-990-805-001 (Sheet 4 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 35-22-31-210-801-001

5. Visual Inspection of the Oxygen Mask

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
25-23-61-000-801	Passenger Service Unit (PSU) - Removal (P/B 201)
25-23-61-000-804	Passenger Service Unit - Removal (P/B 401)
25-23-61-400-801	Passenger Service Unit (PSU) - Installation (P/B 201)
25-23-61-400-804	Passenger Service Unit - Installation (P/B 401)
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-11-000-811-001	Oxygen Generator Deactivation (P/B 201)
35-22-31-000-801-001	PSU Oxygen Mask Removal (P/B 401)
35-22-31-000-802-001	ASU and LSU Oxygen Mask Removal (P/B 401)
35-22-31-000-807-001	ASU Oxygen Mask Removal (P/B 401)
35-22-31-000-808-001	LSU Oxygen Mask Removal (P/B 401)
35-22-31-400-801-001	PSU Oxygen Mask Installation (P/B 401)
35-22-31-400-802-001	ASU and LSU Oxygen Mask Installation (P/B 401)
35-22-31-400-804-001	ASU Oxygen Mask Installation (P/B 401)
35-22-31-400-805-001	LSU Oxygen Mask Installation (P/B 401)
35-22-51-040-801	Oxygen Cylinder (CDS) Deactivation (P/B 201)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Prepare for the Oxygen Mask Inspection

SUBTASK 35-22-31-910-008-001

(1) Read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance (TASK 35-00-00-910-801).

SUBTASK 35-22-31-010-018-001

(2) Get access to the oxygen masks as follows:

(a) Lower the applicable Passenger Service Unit (PSU) for the passenger oxygen masks (TASK 25-23-61-000-801 or TASK 25-23-61-000-804).

(b) For the attendant or lavatory oxygen masks, do these steps:

1) Go to the applicable Attendant Service Unit (ASU) or Lavatory Service Unit (LSU).

2) Put a tool into the latch access hole.

3) Push on the tool to operate the door latch.

4) Open the oxygen box door.

5) Let the oxygen masks fall.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 35-22-31-040-017-001

WARNING	MAKE SURE A RELEASE PIN OR A SAFETY PIN (WITH A WARNING FLAG) IS INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF A PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F/232°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (APPROXIMATELY ONE HOUR).

(3) To deactivate the oxygen generator, do this task: TASK 35-22-11-000-811-001.

LOM 404, 416, 422, 425, 432-434, 440, 442, 445-447, 450-999; LOM 402, 406, 407 POST SB 737-35-1146

SUBTASK 35-22-31-040-018-001

(4) To deactivate the oxygen cylinder, do this task: TASK 35-22-51-040-801.

LOM ALL

D. Oxygen Mask Inspection

SUBTASK 35-22-31-210-014-001

(1) Do a visual check of the general condition of the oxygen masks.

(a) Make sure that the oxygen masks are not damaged as follows:

1) Torn parts
2) Broken parts
3) Frayed parts
4) Missing parts
5) Holes in parts.

(b) Make sure that the oxygen mask does not have these conditions:

1) Stiffness
2) Permanent deformation or kinks.

(c) Make sure that the oxygen masks are clean and free from contamination such as:

1) Grease or oil
2) Dirt
3) Unwanted material.

(d) Make sure that all of the flapper valves are aligned and not damaged.

(e) Make sure that the bag and tube do not have changed color.

(f) Make sure that the head strap will stretch when it is pulled, and goes back when it is released.

(g) Make sure that the face piece does not have odor.

(h) Look through the bag and tube and make sure that there is no liquid drops or solid dirt on the internal surface of the bag and tube.

(i) If one of the conditions exist, repair or replace the mask assembly.

SUBTASK 35-22-31-210-015-001

(2) Do a visual check of the applicable oxygen supply hoses.

(a) Make sure that the oxygen supply hoses are not damaged.

(b) Make sure that the oxygen supply hoses are soft and flexible.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(c) Make sure that the color of the oxygen supply hoses has not changed.

NOTE: If there is no sign that the hose has been cut, discolored or crushed to the point of decreased oxygen flow, the hose is satisfactory for use. A small kink of the PSU oxygen tubing is not a cause to reject the tube. The tubing has an internal structure that will let the flow of oxygen when it has a kink.

NOTE: The oxygen supply hoses with the minor discoloration at the oxygen mask box grommet location can be serviceable for continued operation. Localized oxygen supply hose discoloration at areas of clamp grommet contact is permissible provided that the locations of the discoloration do not show signs of embrittlement or reduced flexibility. Discoloration of the oxygen supply hose on the PSU is the result of contact with the grommet in the oxygen mask box on the PSU and is not a reason to replace the oxygen supply hose.

(d) Make sure that the mask is held correctly to the oxygen supply hose.

(e) Make sure that the in line flow indicator points to the bag.

(f) If one of these conditions is present, repair or replace the mask assembly.

SUBTASK 35-22-31-210-028-001

(3) Visually examine the oxygen mask hoses and oxygen mask bags for liquid contamination on the inner and outer surfaces.

(a) If liquid contamination exists, replace the applicable oxygen mask assembly.

1) For the passenger oxygen masks, replace the PSU oxygen masks, do these tasks:

- PSU Oxygen Mask Removal, TASK 35-22-31-000-801-001
- PSU Oxygen Mask Installation, TASK 35-22-31-400-801-001.

2) For the attendant or lavatory oxygen masks, replace the ASU or LSU oxygen masks, do these tasks:

- ASU and LSU Oxygen Mask Removal, TASK 35-22-31-000-802-001 or ASU Oxygen Mask Removal, TASK 35-22-31-000-807-001 or LSU Oxygen Mask Removal, TASK 35-22-31-000-808-001
- ASU and LSU Oxygen Mask Installation, TASK 35-22-31-400-802-001 or ASU Oxygen Mask Installation, TASK 35-22-31-400-804-001 or LSU Oxygen Mask Installation, TASK 35-22-31-400-805-001.

SUBTASK 35-22-31-210-016-001

(4) Make sure that the lanyards are attached to the release cable.

SUBTASK 35-22-31-900-005-001

(5) If the oxygen mask or oxygen supply hose is not serviceable, replace them when necessary.

(a) For the passenger oxygen masks, replace the PSU oxygen masks, do these tasks:

- PSU Oxygen Mask Removal, TASK 35-22-31-000-801-001
- PSU Oxygen Mask Installation, TASK 35-22-31-400-801-001.

(b) For the attendant or lavatory oxygen masks, replace the ASU or LSU oxygen masks, do these tasks:

- ASU and LSU Oxygen Mask Removal, TASK 35-22-31-000-802-001 or ASU Oxygen Mask Removal, TASK 35-22-31-000-807-001 or LSU Oxygen Mask Removal, TASK 35-22-31-000-808-001
- ASU and LSU Oxygen Mask Installation, TASK 35-22-31-400-802-001 or ASU Oxygen

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Mask Installation, TASK 35-22-31-400-804-001 or LSU Oxygen Mask Installation, TASK 35-22-31-400-805-001.

SUBTASK 35-22-31-530-001-001

(6) To pack the oxygen mask for the ASU and LSU oxygen box, do this task: TASK 35-22-31-000-804-001.

SUBTASK 35-22-31-530-004-001

(7) To pack the oxygen mask for the PSU oxygen box, do this task: TASK 35-22-31-000-803-001 or TASK 35-22-31-440-801.

SUBTASK 35-22-31-410-005-001

(8) Close the applicable service unit access.

(a) Close the PSU for the passenger oxygen masks (TASK 25-23-61-400-801 or TASK 25-23-61-400-804).

(b) For the attendant or lavatory oxygen masks, do these steps to close the ASU or LSU oxygen box door:

1) Hold the oxygen box door.

2) Remove the masking tape from the oxygen box door (if installed).

3) Push the reset lever on the latch actuator plunger to set the actuator again.

4) Close and latch the oxygen box door.

5) Do a visual check of the door alignment to make sure the oxygen equipment is not caught in the oxygen box door or in the actuator.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

PASSENGER OXYGEN MASK - REMOVAL/INSTALLATION

1. **General**

A. This procedure contains these tasks:

(1) PSU Oxygen Mask Removal

(2) PSU Oxygen Mask Installation

LOM 411, 412, 415, 420, 423, 424, 426-431, 437-439, 441, 443, 444; LOM 402, 406, 407 PRE SB 737-35-1146

(3) ASU/LSU Oxygen Mask Removal

(4) ASU/LSU Oxygen Mask Installation.

LOM 404, 416, 422, 425, 432-434, 440, 442, 445-447, 450-999; LOM 402, 406, 407 POST SB 737-35-1146

(5) ASU Oxygen Mask Removal

(6) ASU Oxygen Mask Installation.

(7) LSU Oxygen Mask Removal

(8) LSU Oxygen Mask Installation.

LOM ALL

B. The passenger oxygen masks are found in the passenger cabin above each passenger seat. Oxygen masks are also found above the attendant seats and in each of the lavatories. The passenger oxygen masks are found in the oxygen boxes in each of these LRUs:

(1) Passenger Service Unit (PSU)

(2) Attendant Service Unit (ASU)

(3) Lavatory Service Unit (LSU).

LOM 411, 412, 415, 420, 423, 424, 426-431, 437-439, 441, 443, 444; LOM 402, 406, 407 PRE SB 737-35-1146

C. The removal and installation of the passenger oxygen masks is similar for the ASU and LSU locations.

LOM ALL

D. Before you do maintenance on an oxygen system component that contains an oxygen generator you must install a safety pin in the generator firing mechanism. The safety pin will let the generator to be handled. If the safety pin is not installed, the oxygen generator can fire.

LOM 404, 416, 422, 425, 432-434, 440, 442, 445-447, 450-999; LOM 402, 406, 407 POST SB 737-35-1146

E. Before you do maintenance on an oxygen system component that contains an oxygen cylinder (CDS) you must install a safety pin in the actuator assembly. The safety pin will let the oxygen cylinder be handled and stored. If the safety pin is not installed, the oxygen cylinder can release oxygen.

LOM ALL

TASK 35-22-31-000-801-001

2. **PSU Oxygen Mask Removal**

(Figure 401)

A. References

Reference	Title
25-23-61	PASSENGER SERVICE UNIT (PSU)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(Continued)

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-11-000-811-001	Oxygen Generator Deactivation (P/B 201)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Remove the PSU Oxygen Masks

SUBTASK 35-22-31-910-001-001

(1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-22-31-860-001-001

(2) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT
LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-999			
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

LOM ALL

SUBTASK 35-22-31-010-002-001

(3) To lower the PSU, do this task: PASSENGER SERVICE UNIT (PSU), SUBJECT 25-23-61.

SUBTASK 35-22-31-010-003-001

WARNING

INSTALL A RELEASE PIN OR A SAFETY PIN WITH THE WARNING FLAG INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF YOU REMOVE THE RELEASE PIN AND THE SAFETY PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F (230°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (WAIT APPROXIMATELY ONE HOUR).

(4) Do this task: Oxygen Generator Deactivation, TASK 35-22-11-000-811-001.

SUBTASK 35-22-31-010-004-001

(5) UNDERBIN PSU's

Do these steps to remove the oxygen masks [6] from the mask box [9]:

(a) Remove the oxygen mask box cover [1] from the mask box [9].

1) Keep the mask box cover [1] for the installation.

(b) Pull the oxygen masks [6] with the oxygen supply lines [7] and lanyards [5] up through the top of the mask box [9].

(c) Let the oxygen masks [6] hang from the top of the PSU.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426

(d) Remove the cotter pin [4] from the mask box [9].

LOM 427-434, 437-447, 450-999

(e) Make sure that the safety pin and flag [13] pin is fully installed to the generator firing mechanism [15]. Then remove the release cable pin [14] from the oxygen generator.

LOM ALL

(f) Remove the lanyard rings [3] from the end of the release cable [2].

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426

(g) Disconnect the oxygen supply line [7] from the oxygen manifold [8] (View A-A).

LOM 427-434, 437-447, 450-999

(h) Disconnect the oxygen supply lines [7] from the oxygen manifold [8] of the oxygen generator. Then disconnect the oxygen supply line [7] from the supply line clip [11] of the PSU.

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426

(i) Do the steps again for the oxygen masks [6] in the opposite mask box [9] of the PSU (if it is necessary).

LOM ALL

(j) Remove the oxygen masks [6] from the airplane.

SUBTASK 35-22-31-970-001-001

(6) Make a report in the airplane logbook that states that one or more PSU oxygen masks have been removed and must be installed before the airplane is released for flight.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

PASSENGER COMPARTMENT

PASSENGER SERVICE UNIT (PSU)
(EXAMPLE)

A

F93864 S0006577833_V3

PSU Oxygen Mask Installation
Figure 401/35-22-31-990-801-001 (Sheet 1 of 5)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

F93892 S0006577834_V3

PSU Oxygen Mask Installation
Figure 401/35-22-31-990-801-001 (Sheet 2 of 5)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

PASSENGER COMPARTMENT (EXAMPLE)

PASSENGER SERVICE UNIT (PSU)

A

1976691 S0000381012_V2

PSU Oxygen Mask Installation
Figure 401/35-22-31-990-801-001 (Sheet 3 of 5)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

MASK BOX
(0XYGEN GENERATOR NOT SHOWN)

B

1977093 S0000381013_V2

PSU Oxygen Mask Installation
Figure 401/35-22-31-990-801-001 (Sheet 4 of 5)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

OXYGEN GENERATOR (EXAMPLE)

C

1976715 S0000381010_V2

PSU Oxygen Mask Installation
Figure 401/35-22-31-990-801-001 (Sheet 5 of 5)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 35-22-31-400-801-001

3. PSU Oxygen Mask Installation

(Figure 401)

A. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-11-400-811-001	Oxygen Generator Activation (P/B 201)
35-22-31-000-803-001	PSU Oxygen Mask Packing (P/B 201)
35-22-31-000-804-001	ASU and LSU Oxygen Mask Packing (P/B 201)
35-22-31-440-801	PSU Oxygen Mask Packing (P/B 201)

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
6	Mask	35-22-11-50S-180	LOM 412, 415, 423, 424
		35-22-11-60E-180	LOM 407, 420
		35-22-11-60F-180	LOM 407, 412, 415, 420, 423, 424
		35-22-11-60G-180	LOM 407, 420

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Procedure

SUBTASK 35-22-31-910-002-001

(1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: (Oxygen System General Maintenance Practices, TASK 35-00-00-910-801).

SUBTASK 35-22-31-210-001-001

(2) Do a check of the replacement oxygen masks [6]:

(a) Make sure the oxygen masks [6] are not torn or damaged.

(b) Make sure the oxygen masks [6] are clean and free from contamination such as:

1) Dirt

2) Grease

3) Oil

4) Unwanted material.

(c) Make sure the elastic straps are held securely to the oxygen masks [6].

SUBTASK 35-22-31-210-002-001

(3) Do a check of the oxygen supply lines [7] on the replacement oxygen masks [6]:

(a) Make sure the oxygen supply lines are not torn or damaged.

(b) Make sure the oxygen supply lines are soft and flexible.

(c) Make sure the color of the oxygen supply lines have not deteriorated.

(d) Make sure the oxygen masks [6] are held securely to the oxygen supply lines.

SUBTASK 35-22-31-900-001-001

(4) If an oxygen mask or oxygen supply line is not serviceable, replace the oxygen mask [6].

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426

SUBTASK 35-22-31-420-001-001

(5) UNDERBIN PSU's

Do these steps to install the oxygen mask [6] in the PSU (Figure 401):

(a) Put the oxygen masks [6] in their positions.

(b) Attach the oxygen supply lines [7] to the oxygen manifold [8] of the PSU mask box [9] (View A-A).

(c) Attach the lanyard rings [3] to the release cable [2].

(d) Put the release cable [2] in its installed position in the mask box [9].

(e) Use the cotter pin [4] to attach the release cable [2] to the mask box (View B).

LOM ALL

SUBTASK 35-22-31-420-002-001

(6) Do this task: (PSU Oxygen Mask Packing, TASK 35-22-31-440-801 or ASU and LSU Oxygen Mask Packing, TASK 35-22-31-000-804-001 or PSU Oxygen Mask Packing, TASK 35-22-31-000-803-001).

LOM 427-434, 437-447, 450-999

SUBTASK 35-22-31-420-014

(7) UNDERBIN PSU's

Do these steps to install the oxygen masks [6] in the PSU (Figure 401):

(a) Put the oxygen masks [6] adjacent to the mask box [9] box.

(b) Put the release cable [2] through the lanyard ring [3] of the two outboard oxygen masks [6].

(c) Then put the release cable [2] through the lanyard ring [3] of the two inboard oxygen masks [6].

(d) Put the release cable through the triangular cable window [10] of the mask box [9].

(e) Install the oxygen supply lines [7] to the oxygen manifold [8] of the oxygen generator.

(f) Put the oxygen supply lines [7] in the installed positions on the opposite sides of the oxygen generator. Then install the oxygen supply lines [7] in the supply line clips [11] of the PSU assembly.

(g) Install the oxygen supply lines [7] in the two grommets [12] of the mask box [9].

(h) Install the release cable pin [14] in the generator firing mechanism [15] of the oxygen generator.

LOM ALL

SUBTASK 35-22-31-420-015

(8) Do the applicable oxygen mask packing Task:

(TASK 35-22-31-440-801 or TASK 35-22-31-000-804-001 or TASK 35-22-31-000-803-001).

LOM 427-434, 437-447, 450-999

SUBTASK 35-22-31-440-003

(9) Do the (Oxygen Generator Activation, TASK 35-22-11-400-811-001.)

LOM ALL

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 35-22-31-860-002-001

(10) Make sure that these circuit breakers are closed:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT

LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-999

F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

LOM ALL

SUBTASK 35-22-31-970-002-001

(11) Remove the report from the airplane logbook that states that the PSU oxygen masks have been removed.

END OF TASK

LOM 411, 412, 415, 420, 423, 424, 426-431, 437-439, 441, 443, 444; LOM 402, 406, 407 PRE SB 737-35-1146

TASK 35-22-31-000-802-001

4. ASU and LSU Oxygen Mask Removal

(Figure 402)

A. General

(1) The ASU and LSU oxygen masks are found above the attendant seats and in each of the lavatories.

(2) The installation and removal of the oxygen masks from the ASU and LSU is similar. Figure 402 shows the forward ASU as an example.

B. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-11-000-811-001	Oxygen Generator Deactivation (P/B 201)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Remove the ASU and LSU Oxygen Masks

SUBTASK 35-22-31-910-003-001

(1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-22-31-860-003-001

(2) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 411, 412, 415, 420, 423, 424, 426-431, 437-439, 441, 443, 444; LOM 402, 406, 407 PRE SB 737-35-1146 (Continued)

(Continued)

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
LOM 411, 412, 415, 423, 424, 426-431, 437-439, 441, 443, 444; LOM 402, 406, 407 PRE SB 737-35-1146			
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

LOM 411, 412, 415, 420, 423, 424, 426-431, 437-439, 441, 443, 444; LOM 402, 406, 407 PRE SB 737-35-1146

SUBTASK 35-22-31-010-005-001

(3) Go to the applicable ASU or LSU in the passenger compartment.

NOTE: Figure 402 shows the forward ASU oxygen mask removal. The removal and installation of the oxygen masks for the ASUs and LSUs are similar.

SUBTASK 35-22-31-010-006-001

(4) Do these steps to open the ASU or LSU oxygen box door [22]:

(a) Go to the applicable ASU or LSU.

(b) Put the flat tool [23] in the door edge gap.

(c) Push the flat tool [23] up against the oxygen box door latch [24].

(d) Open the oxygen box door [22].

(e) Let the oxygen mask assemblies [28] or oxygen mask assemblies [30] to fall.

(f) Do not pull on the oxygen mask assemblies [28] or oxygen mask assemblies [30].

NOTE: If you pull on the oxygen masks, the oxygen generator [25] will fire.

SUBTASK 35-22-31-010-007-001

WARNING

INSTALL A RELEASE PIN OR A SAFETY PIN WITH THE WARNING FLAG INSTALLED IN THE FIRING MECHANISM OF THE OXYGEN GENERATOR. THE OXYGEN GENERATOR WILL FIRE IF YOU REMOVE THE RELEASE PIN AND THE SAFETY PIN IS NOT INSTALLED. A FIRED OXYGEN GENERATOR GETS VERY HOT (450°F (230°C) OR HIGHER) AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (WAIT APPROXIMATELY ONE HOUR).

(5) To deactivate the oxygen generator, do this task: Oxygen Generator Deactivation, TASK 35-22-11-000-811-001.

SUBTASK 35-22-31-010-008-001

(6) Do these steps to remove the oxygen mask assemblies [28] or oxygen mask assemblies [30] from the mask box [21]:

(a) Make sure the safety pin [29] is installed in the oxygen generator [25].

(b) Carefully remove the release pin [26] from the oxygen generator [25] (View C).

(c) Remove the lanyard rings [27] from the release pin [26].

(d) Remove the oxygen supply lines [32] from the adjustment clamp [31] (View D).

(e) Disconnect the oxygen supply lines [32] from the oxygen generator manifold.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(f) Remove the oxygen mask assemblies [28] or oxygen mask assemblies [30] from the airplane.

SUBTASK 35-22-31-970-003-001

(7) Make a report in the airplane logbook that states that one or more ASU or LSU oxygen masks have been removed and must be installed before the airplane is released for flight.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

1 FORWARD ASU SHOWN AS AN EXAMPLE. ALL OF THE ATTENDANT AND LAVATORY SERVICE UNITS ARE EQUIVALENT.

F95593 S0006577837_V2

ASU/LSU Oxygen Mask Installation
Figure 402/35-22-31-990-802-001 (Sheet 1 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

FORWARD ATTENDANT SERVICE UNIT
(EXAMPLE)

B 1

1 FORWARD ASU SHOWN AS AN EXAMPLE. ALL OF THE ATTENDANT AND LAVATORY SERVICE UNITS ARE EQUIVALENT.

D86430 S0000166050_V2

ASU/LSU Oxygen Mask Installation
Figure 402/35-22-31-990-802-001 (Sheet 2 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

ASU/LSU Oxygen Mask Installation
Figure 402/35-22-31-990-802-001 (Sheet 3 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUPPLY LINE MANIFOLD CONNECTION

D

F96978 S0006577840_V2

ASU/LSU Oxygen Mask Installation
Figure 402/35-22-31-990-802-001 (Sheet 4 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 35-22-31-400-802-001

5. ASU and LSU Oxygen Mask Installation

NOTE: See Figure 402.

A. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-31-000-804-001	ASU and LSU Oxygen Mask Packing (P/B 201)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Procedure

SUBTASK 35-22-31-910-004-001

(1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-22-31-210-003-001

(2) Do a check of the replacement oxygen mask assemblies [28] or oxygen mask assemblies [30]:

(a) Make sure the oxygen mask assemblies [28] or oxygen mask assemblies [30] are not torn or damaged.

(b) Make sure the oxygen mask assemblies [28] or oxygen mask assemblies [30] are clean and free from contamination such as:

1) dirt

2) grease

3) oil

4) unwanted material.

(c) Make sure the elastic straps are held securely to the oxygen mask assemblies [28] or oxygen mask assemblies [30].

SUBTASK 35-22-31-210-004-001

(3) Do a check of the oxygen supply lines [32] on the replacement oxygen mask assemblies [28] or oxygen mask assemblies [30].

(a) Make sure the oxygen supply lines are not torn or damaged.

(b) Make sure the oxygen supply lines are soft and flexible.

(c) Make sure the color of the oxygen supply lines have not deteriorated.

(d) Make sure each oxygen mask is held securely to the oxygen supply line.

SUBTASK 35-22-31-900-002-001

(4) If an oxygen mask or oxygen supply line is not serviceable, replace the oxygen masks [28] or oxygen masks [30].

SUBTASK 35-22-31-420-003-001

(5) Do these steps to install the oxygen mask assemblies [28] or oxygen mask assemblies [30] to the ASU or LSU oxygen box [21]:

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 411, 412, 415, 420, 423, 424, 426-431, 437-439, 441, 443, 444; LOM 402, 406, 407 PRE SB 737-35-1146 (Continued)

(a) Put the oxygen mask assemblies [28] or oxygen mask assemblies [30] in their positions.

(b) Attach the oxygen supply line [32] to the oxygen manifold on the oxygen generator [25] (View C).

(c) Make sure the unused ports on the oxygen generator manifold are plugged.

(d) Do these steps to attach the oxygen supply line [32] through the adjustment clamp [31]:

1) Tighten the adjustment clamp [31] to make sure the oxygen supply line [32] does not slip.

2) Make sure the adjustment clamp [31] does not crimp the oxygen supply line [32].

(e) Attach the lanyard rings [27] to the release cable [26].

(f) Carefully attach the release cable [26] to the firing mechanism on the oxygen generator [25].

SUBTASK 35-22-31-420-004-001

(6) Do this task: ASU and LSU Oxygen Mask Packing, TASK 35-22-31-000-804-001.

SUBTASK 35-22-31-860-004-001

(7) Remove the safety tags and close these circuit breakers:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT

LOM 411, 412, 415, 423, 424, 426-431, 437-439, 441, 443, 444; LOM 402, 406, 407 PRE SB 737-35-1146

F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

LOM 411, 412, 415, 420, 423, 424, 426-431, 437-439, 441, 443, 444; LOM 402, 406, 407 PRE SB 737-35-1146

SUBTASK 35-22-31-970-004-001

(8) Remove the report from the airplane logbook that states that the ASU/LSU oxygen mask(s) have been removed.

END OF TASK

LOM 404, 416, 422, 425, 432-434, 440, 442, 445-447, 450-999; LOM 402, 406, 407 POST SB 737-35-1146

TASK 35-22-31-000-807-001

6. ASU Oxygen Mask Removal

(Figure 403)

A. General

(1) The ASU oxygen masks are found above the attendant seats .

B. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-11-000-811-001	Oxygen Generator Deactivation (P/B 201)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Remove the ASU Oxygen Masks

SUBTASK 35-22-31-910-019-001

(1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-22-31-860-007-001

(2) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

SUBTASK 35-22-31-010-035-001

(3) Go to the applicable ASU in the passenger compartment.

SUBTASK 35-22-31-010-036-001

(4) Do these steps to open the ASU oxygen box door [22]:

(a) Put the flat tool [23] in the door edge gap.

(b) Push the flat tool [23] up against the oxygen box door latch [24].

(c) Open the oxygen box door [22].

(d) Let the oxygen mask assemblies [28] or oxygen mask assemblies [30] to fall.

(e) Do not pull on the oxygen mask assemblies [28] or oxygen mask assemblies [30].

NOTE: If you pull on the oxygen masks, the oxygen generator [25] will fire.

SUBTASK 35-22-31-040-013-001

WARNING

MAKE SURE THAT THE SAFETY PIN WITH A WARNING FLAG IS INSTALLED ON THE GENERATOR. THE GENERATOR IS A PYROTECHNIC-ACTIVATED DEVICE. IF THE GENERATOR FIRES, IT WILL BECOME VERY HOT (450 DEGREE F OR MORE). IF YOU TOUCH A HOT GENERATOR, YOU WILL GET AN INJURY.

(5) To deactivate the oxygen generator, do this task: Oxygen Generator Deactivation, TASK 35-22-11-000-811-001.

SUBTASK 35-22-31-020-004-001

(6) Do these steps to remove the oxygen mask assemblies [28] or oxygen mask assemblies [30] from the mask box [21]:

(a) Make sure the safety pin [29] is installed in the oxygen generator [25].

(b) Carefully remove the release pin [26] from the oxygen generator [25] (View C).

(c) Remove the lanyard rings [27] from the release pin [26].

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(d) Remove the oxygen supply lines [32] from the adjustment clamp [31] (View D).

(e) Disconnect the oxygen supply lines [32] from the oxygen generator manifold.

(f) Remove the oxygen mask assemblies [28] or oxygen mask assemblies [30] from the airplane.

SUBTASK 35-22-31-970-007-001

(7) Make a report in the airplane logbook that states that one or more ASU LSU oxygen masks have been removed and must be installed before the airplane is released for flight.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

FORWARD ATTENDANT SERVICE UNIT
(EXAMPLE)

B 1

1 FORWARD ASU SHOWN AS AN EXAMPLE.
ALL OF THE ATTENDANT AND LAVATORY
SERVICE UNITS ARE EQUIVALENT.

2337893 S0000532226_V2

ASU Oxygen Mask Installation
Figure 403/35-22-31-990-821-001 (Sheet 1 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

FORWARD ATTENDANT SERVICE UNIT
(EXAMPLE)

B 1

1 FORWARD ASU SHOWN AS AN EXAMPLE. ALL OF THE ATTENDANT AND LAVATORY SERVICE UNITS ARE EQUIVALENT.

2337901 S0000532227_V2

ASU Oxygen Mask Installation
Figure 403/35-22-31-990-821-001 (Sheet 2 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

ASU Oxygen Mask Installation
Figure 403/35-22-31-990-821-001 (Sheet 3 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUPPLY LINE MANIFOLD CONNECTION

D

F96978 S0006577840_V2

ASU Oxygen Mask Installation
Figure 403/35-22-31-990-821-001 (Sheet 4 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 35-22-31-400-804-001

7. ASU Oxygen Mask Installation

(Figure 403)

A. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-31-000-804-001	ASU and LSU Oxygen Mask Packing (P/B 201)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Procedure

SUBTASK 35-22-31-910-020-001

(1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-22-31-210-047-001

(2) Do a check of the replacement oxygen mask assemblies [28] or oxygen mask assemblies [30]:

(a) Make sure the oxygen mask assemblies [28] or oxygen mask assemblies [30] are not torn or damaged.

(b) Make sure the oxygen mask assemblies [28] or oxygen mask assemblies [30] are clean and free from contamination such as:

1) dirt

2) grease

3) oil

4) unwanted material.

(c) Make sure the elastic straps are held securely to the oxygen mask assemblies [28] or oxygen mask assemblies [30].

SUBTASK 35-22-31-210-048-001

(3) Do a check of the oxygen supply lines [32] on the replacement oxygen mask assemblies [28] or oxygen mask assemblies [30].

(a) Make sure the oxygen supply lines [32] are not torn or damaged.

(b) Make sure the oxygen supply lines [32] are soft and flexible.

(c) Make sure the color of the oxygen supply lines [32] have not deteriorated.

(d) Make sure each oxygen mask is held securely to the oxygen supply line [32].

SUBTASK 35-22-31-900-014-001

(4) If a mask assembly [28], mask assembly [30] or oxygen supply line [32] is not serviceable, replace the mask assembly [28] or mask assembly [30].

SUBTASK 35-22-31-420-026-001

(5) Do these steps to install the oxygen mask assemblies [28] or oxygen mask assemblies [30] to the oxygen box [21]:

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(a) Put the oxygen mask assemblies [28] or oxygen mask assemblies [30] in their positions.

(b) Attach the oxygen supply line [32] to the oxygen manifold on the oxygen generator [25] (View D).

(c) Make sure the unused ports on the oxygen generator manifold are plugged.

(d) Do these steps to attach the oxygen supply line [32] through the adjustment clamp [31]:

1) Tighten the adjustment clamp [31] to make sure the oxygen supply line [32] does not slip.

2) Make sure the adjustment clamp [31] does not crimp the oxygen supply line [32].

(e) Attach the lanyard ring [27] to the release cable [26].

(f) Carefully attach the release cable [26] to the firing mechanism on the oxygen generator [25].

SUBTASK 35-22-31-410-026-001

(6) Do this task: ASU and LSU Oxygen Mask Packing, TASK 35-22-31-000-804-001.

SUBTASK 35-22-31-860-008-001

(7) Remove the safety tags and close these circuit breakers:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

SUBTASK 35-22-31-970-008-001

(8) Remove the report from the airplane logbook that states that the Attendant Service Unit (ASU) oxygen mask(s) have been removed.

END OF TASK

TASK 35-22-31-000-808-001

8. LSU Oxygen Mask Removal

(Figure 404)

A. General

(1) The LSU oxygen masks are found in each of the lavatories.

B. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-51-040-801	Oxygen Cylinder (CDS) Deactivation (P/B 201)

C. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

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LOM 404, 416, 422, 425, 432-434, 440, 442, 445-447, 450-999; LOM 402, 406, 407 POST SB 737-35-1146 (Continued)

Reference	Description
SPL-13800	Bit - Screwdriver, Special Part #: D72D72684-111 Supplier: 1TGN3

D. Location Zones

Zone	Area
200	Upper Half of Fuselage

E. Remove the LSU Oxygen Masks

SUBTASK 35-22-31-910-021-001

(1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-22-31-860-009-001

(2) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

SUBTASK 35-22-31-010-037-001

(3) Go to the applicable LSU in the passenger compartment.

SUBTASK 35-22-31-010-038-001

(4) Do these steps to open the LSU oxygen box door:

LOM 404, 416, 422, 425, 465-999; LOM 402, 406, 407 POST SB 737-35-1146

(a) Put the flat tool in the door edge gap.

(b) Push the flat tool up against the oxygen box door latch.

LOM 432-434, 440, 442, 445-447, 450-464

(c) Put special screwdriver bit, SPL-13800 into fasteners

1) Loosen the fasteners.

LOM 404, 416, 422, 425, 432-434, 440, 442, 445-447, 450-999; LOM 402, 406, 407 POST SB 737-35-1146

(d) Open the oxygen box door.

(e) Let the oxygen masks [50] fall.

(f) Do not pull on the oxygen oxygen masks [50].

NOTE: If you pull on the oxygen masks, the oxygen cylinder will release the oxygen.

SUBTASK 35-22-31-040-014-001

(5) To deactivate the oxygen cylinder, do this task: Oxygen Cylinder (CDS) Deactivation, TASK 35-22-51-040-801.

SUBTASK 35-22-31-020-005-001

(6) Do these steps to remove the oxygen masks [50] from the oxygen box [56]:

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(a) Make sure the safety pin [57] is installed in the actuator assembly [60].

(b) Disconnect mask lanyard [51] rings from the release lanyard [55].

(c) Disconnect the oxygen supply hoses [54] from the oxygen manifold [58].

(d) Remove the oxygen masks [50] from the airplane.

SUBTASK 35-22-31-970-009-001

(7) Make a report in the airplane logbook that states that one or more LSU oxygen masks have been removed and must be installed before the airplane is released for flight.

——— END OF TASK ———

ECCN 9E991 BOEING PROPRIETARY - See title page for details

2337922 S0000532201_V2

LSU Oxygen Mask Installation
Figure 404/35-22-31-990-822-001 (Sheet 1 of 3)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LSU Oxygen Mask Installation
Figure 404/35-22-31-990-822-001 (Sheet 2 of 3)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

D

2337926 S0000532202_V2

LSU Oxygen Mask Installation
Figure 404/35-22-31-990-822-001 (Sheet 3 of 3)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 35-22-31-400-805-001

9. LSU Oxygen Mask Installation

(Figure 404)

A. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-31-000-804-001	ASU and LSU Oxygen Mask Packing (P/B 201)

B. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
SPL-13800	Bit - Screwdriver, Special Part #: D72D72684-111 Supplier: 1TGN3

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Procedure

SUBTASK 35-22-31-910-022-001

(1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-22-31-210-049-001

(2) Do a check of the replacement oxygen oxygen masks [50]:
   - (a) Make sure the oxygen masks [50] are not torn or damaged.
   - (b) Make sure the oxygen masks [50] are clean and free from contamination such as:
     - 1) dirt
     - 2) grease
     - 3) oil
     - 4) unwanted material.
   - (c) Make sure the elastic straps are held securely to the oxygen masks [50].

SUBTASK 35-22-31-210-050-001

(3) Do a check of the oxygen supply hoses [54] on the replacement oxygen masks [50].
   - (a) Make sure the oxygen supply lines are not torn or damaged.
   - (b) Make sure the oxygen supply lines are soft and flexible.
   - (c) Make sure the color of the oxygen supply hoses [54] have not deteriorated.
   - (d) Make sure each oxygen mask is held securely to the oxygen supply hose.

SUBTASK 35-22-31-900-015-001

(4) If an oxygen mask or oxygen supply hose is not serviceable, replace the oxygen masks [50].

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 404, 416, 422, 425, 432-434, 440, 442, 445-447, 450-999; LOM 402, 406, 407 POST SB 737-35-1146 (Continued)

SUBTASK 35-22-31-420-027-001

(5) Do these steps to install the oxygen masks [50] to the oxygen box [56]:

(a) Put the oxygen oxygen masks [50] in their positions.

(b) Attach the oxygen supply hoses [54] to the oxygen manifold [58] on the oxygen cylinder [59].

(c) Attach the mask lanyards [51] to the release lanyard [55] (Figure 404).

1) Put the mask lanyard loops on the release lanyard.

2) Connect the release lanyard to the split ring.

SUBTASK 35-22-31-410-027-001

(6) Do this task: ASU and LSU Oxygen Mask Packing, TASK 35-22-31-000-804-001.

LOM 432-434, 440, 442, 445-447, 450-464

SUBTASK 35-22-31-410-028-001

(7) Close the Lavatory Service Unit (LSU) oxygen box door.

(a) Put special screwdriver bit, SPL-13800 into the fasteners.

(b) Tighten the fasteners.

LOM 404, 416, 422, 425, 432-434, 440, 442, 445-447, 450-999; LOM 402, 406, 407 POST SB 737-35-1146

SUBTASK 35-22-31-860-010-001

(8) Remove the safety tags and close these circuit breakers:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

SUBTASK 35-22-31-970-010-001

(9) Remove the report from the airplane logbook that states that the LSU oxygen mask(s) have been removed.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

PASSENGER OXYGEN MASK - CLEANING

1. General

A. This procedure has the task that follows:

(1) Oxygen mask assembly cleaning.

B. Clean the oxygen mask assembly and disinfect it with an alcohol, B50073 solution after each use.

C. This procedure gives instructions to clean the passenger oxygen masks. This includes the oxygen masks in the Passenger Service Unit (PSU), Attendant Service Unit (ASU), and Lavatory Service Unit (LSU).

D. Boeing recommends replacement of the oxygen mask assemblies within a 6 ft (1.8 m) radius of a suspected viral/bacterial infected passenger. Removed oxygen mask assemblies (mask, bag, and tubing) should be put in a biohazard disposal bag. For the most current guidance, refer to the latest communication from Boeing Customer Support (BCS).

TASK 35-22-31-100-801-001

2. Oxygen Mask Assembly Cleaning

A. General

(1) Before you do maintenance on an oxygen system component that contains an oxygen generator you must install a safety pin in the generator firing mechanism. The safety pin will let the generator be handled and stored. If the safety pin is not installed, the oxygen generator can fire.

LOM 404, 416, 422, 425, 432-434, 440, 442, 445-447, 450-999; LOM 402, 406, 407 POST SB 737-35-1146

(2) Before you do maintenance on an oxygen system component that contains an oxygen cylinder (CDS) you must install a safety pin in the actuator assembly. The safety pin will let the oxygen cylinder be handled and stored. If the safety pin is not installed, the oxygen cylinder can release oxygen.

LOM ALL

B. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-11-000-811-001	Oxygen Generator Deactivation (P/B 201)
35-22-31-000-803-001	PSU Oxygen Mask Packing (P/B 201)
35-22-31-000-804-001	ASU and LSU Oxygen Mask Packing (P/B 201)
35-22-31-440-801	PSU Oxygen Mask Packing (P/B 201)
35-22-51-040-801	Oxygen Cylinder (CDS) Deactivation (P/B 201)

C. Tools/Equipment

Reference	Description
STD-6435	Respirator - Particulate (Meets NIOSH 42 CFR 84 Class N95, EN149 Class FFP2, or Better)
STD-6437	Goggles - Safety, Non Vented

D. Consumable Materials

Reference	Description	Specification
B00130	Alcohol - Isopropyl	TT-I-735
B00541	Cleaner - General Purpose Household Detergent	

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(Continued)

Reference	Description	Specification
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	AMS3819 Class 1 Grade A or B Form 1 (Supersede BMS15-5 CL A)
G02418	Water - De-ionized	
G50140	Gloves - Protective, Latex or Nitrile	

E. Location Zones

Zone	Area
200	Upper Half of Fuselage

F. Procedure

SUBTASK 35-22-31-910-005-001

(1) Obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

SUBTASK 35-22-31-940-001-001

(2) Before you get access to the oxygen masks, put on the following personal protective equipment:

(a) Put on safety goggles, STD-6437

(b) Put on particulate respirator, STD-6435

(c) Put on protective gloves, G50140.

NOTE: Nitrile gloves are preferred when in contact with alcohol.

SUBTASK 35-22-31-010-009-001

(3) Get access to the applicable oxygen masks in the passenger cabin.

SUBTASK 35-22-31-040-001-001

WARNING

MAKE SURE THAT YOU INSTALL THE RELEASE PIN OR SAFETY PIN FOR THE OXYGEN GENERATOR WITH THE WARNING FLAG IN THE FIRING MECHANISM. THE OXYGEN GENERATOR CAN FIRE WHEN YOU REMOVE THE RELEASE PIN OR SAFETY PIN. A FIRED OXYGEN GENERATOR CAN BECOME VERY HOT 450 DEGREES FAHRENHEIT (232 CELSIUS) OR HIGHER AND CAN BURN YOU IF YOU TOUCH IT. YOU MUST NOT TOUCH THE OXYGEN GENERATOR UNTIL IT BECOMES COOL (WAIT APPROXIMATELY ONE HOUR). IF YOU DO NOT OBEY, DAMAGE TO EQUIPMENT CAN OCCUR.

(4) To deactivate the oxygen generator, do this task: Oxygen Generator Deactivation, TASK 35-22-11-000-811-001.

LOM 404, 416, 422, 425, 432-434, 440, 442, 445-447, 450-999; LOM 402, 406, 407 POST SB 737-35-1146

SUBTASK 35-22-31-040-011-001

(5) To deactivate the oxygen cylinder, do this task: Oxygen Cylinder (CDS) Deactivation, TASK 35-22-51-040-801.

LOM ALL

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 35-22-31-210-005-001

(6) Make sure that the oxygen masks are not torn or damaged.

SUBTASK 35-22-31-100-005-001

(7) If the oxygen mask assembly is dirty or greasy, do these steps to clean it:

(a) Mix a mild cleaning solution of general purpose household detergent cleaner, B00541 with warm water.

NOTE: Obey the instructions on the label.

(b) Clean the interior and exterior surfaces of the facepiece and the exterior surfaces of the tubing and bag with a clean cotton wiper, G00034 soaked in cleaning solution.

NOTE: Do not disturb the mask diaphragm or do not permit cleaning solution to enter the mask tubing and reservoir bag.

(c) Rinse the mask assembly with warm water, and permit the mask assembly to air dry completely.

SUBTASK 35-22-31-100-006-001

(8) Do these steps to disinfect the mask assembly:

WARNING

DO NOT GET ISOPROPYL ALCOHOL (IPA) IN YOUR MOUTH, EYES, OR ON YOUR SKIN. DO NOT BREATHE THE FUMES FROM IPA. PUT ON GOGGLES, AND GLOVES WHEN YOU USE IPA. KEEP IPA AWAY FROM SPARKS, FLAME, AND HEAT. IPA IS POISONOUS AND FLAMMABLE. IT CAN CAUSE INJURIES TO PERSONNEL AND DAMAGE TO EQUIPMENT.

(a) Mix a disinfectant solution of 70 percent alcohol, B00130 and 30 percent de-ionized water, G02418.

(b) Wipe the mask assembly with a clean cotton wiper, G00034 soaked in disinfectant solution.

NOTE: Refer to the EPA List N or local health authority guidance for required contact/dwell time for isopropyl alcohol to be used as a disinfectant.

1) Make sure the interior and exterior surfaces of the facepiece are thoroughly wiped.

(c) Let the mask assembly dry fully.

(d) Examine each mask assembly in a well lighted area.

1) Make sure that the mask assembly is visibly clean and free of contamination.

2) Make sure that the flappers and diaphragms are seated correctly.

(e) Discard the safety goggles, STD-6437, particulate respirator, STD-6435, and the protective gloves, G50140.

NOTE: Refer to the airline, local health, and safety and regulatory procedures for disposal of material.

WARNING

CLEAN YOUR HANDS WITH SOAP AND FLUSH WITH HOT WATER. DIRTY HANDS WITH CONTAMINATION CAN CAUSE DISEASE AND ILLNESSES TO PERSONS.

(f) Clean your hands with soap and running hot water.

SUBTASK 35-22-31-840-001-001

(9) Do the applicable task(s):

- ASU and LSU Oxygen Mask Packing, TASK 35-22-31-000-804-001

ECCN 9E991 BOEING PROPRIETARY - See title page for details

- PSU Oxygen Mask Packing, TASK 35-22-31-000-803-001 or PSU Oxygen Mask Packing, TASK 35-22-31-440-801.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

ALTITUDE PRESSURE SWITCH - REMOVAL/INSTALLATION

1. General

A. This procedure has these tasks:

(1) Altitude Pressure Switch Removal

(2) Altitude Pressure Switch Installation

TASK 35-22-41-000-801

2. Altitude Pressure Switch - Removal (S813)

(Figure 401)

A. Location Zones

Zone	Area
118	Electrical and Electronics Compartment - Right

B. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

C. Altitude Pressure Switch Removal

SUBTASK 35-22-41-865-001

(1) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT

LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-999

F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

LOM ALL

SUBTASK 35-22-41-010-001

(2) Open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 35-22-41-020-001

(3) Do these steps to remove the altitude pressure switch, S813 [1]:

(a) Remove the cover from the J23 junction box.

(b) Disconnect the D2886 electrical connector [2] from the altitude pressure switch, S813 [1].

(c) Remove the screws [3] that attach the altitude pressure switch, S813 [1] to the J23 junction box.

1) Keep the screws [3].

(d) Remove the altitude pressure switch, S813 [1].

(e) If you will not install the altitude pressure switch, S813 [1] immediately, install the cover on the J23 junction box.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

1) Attach a streamer to the junction box cover to show that the S813 switch is not installed.

——— END OF TASK ———

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Altitude Pressure Switch - Removal/ Installation
Figure 401/35-22-41-990-801

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 35-22-41-400-801

3. Altitude Pressure Switch - Installation (S813)

(Figure 401)

A. References

Reference	Title
20-50-11-910-801	Standard Torque Values (P/B 201)

B. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
COM-1914	Test Set - Air Data Model FLMTS (Flight Line Maintenance) Part #: ADSE 650 Supplier: 3BSK6 Part #: ADTS2000 Supplier: 52892 Part #: ADTS3350ER Supplier: 52892 Part #: ADTS405MKII Supplier: U0427 Part #: ADTS530 Supplier: U0427 Part #: ADTS552F Supplier: U0427 Part #: ADTS553F Supplier: U0427 Part #: ADTS554F Supplier: U0427 Part #: D60340MK Supplier: K1474 Part #: DPS1000 Supplier: 21844 Part #: MODEL 6300 Supplier: 0RDZ5 Part #: MPS34C Supplier: 48RQ2 Part #: MPS43B Supplier: A0197 Part #: MPS45 Supplier: 48RQ2 Part #: MPS49 Supplier: 48RQ2 Part #: TES9463 Supplier: 88277 Opt Part #: 01-0987-00 Supplier: 41364 Opt Part #: 18910480000 Supplier: 89944 Opt Part #: 18910920000 Supplier: 89944 Opt Part #: ADTS405F Supplier: U0427 Opt Part #: ADTS505 Supplier: U0427 Opt Part #: D60302 Supplier: K1474 Opt Part #: D60340 Supplier: K1474 Opt Part #: D60383 Supplier: K1474 Opt Part #: DPS350 Supplier: 21844 Opt Part #: DPS450 Supplier: 21844 Opt Part #: DPS500 Supplier: 21844 Opt Part #: MPS31C Supplier: 48RQ2 Opt Part #: MPS43 Supplier: A0197
COM-1931	Pump - Vacuum, Portable, Standard Duty Part #: 2546B-01 Supplier: 0NCC5 Part #: 2546C-01 Supplier: 0NCC5 Part #: 2546C-02 Supplier: 0NCC5 Opt Part #: 2510F Supplier: 21844 Opt Part #: 2545B-01 Supplier: 0NCC5 Opt Part #: 2545C-02 Supplier: 0NCC5
STD-1318	Hose - Vacuum, 1/4 Inch Inside Diameter (ID) Plastic Tube (Tygon-B44-30PT, Uniflex 650 or Similar)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(Continued)

Reference	Description
STD-1319	Connector - 1/4 Inch ID Tee, Plastic, Vacuum Hose (to Attach Vacuum Gauge to Vacuum Hose)
STD-1320	Gauge - Vacuum
STD-1321	Valve - Shutoff
STD-3900	Adapter - Straight, Tube to Hose (meets AS5180D04 specification)

C. Location Zones

Zone	Area
118	Electrical and Electronics Compartment - Right
212	Flight Compartment - Right

D. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

E. Altitude Pressure Switch Installation

SUBTASK 35-22-41-420-002

(1) Do these steps to install the altitude pressure switch, S813 [1]:

(a) Remove the dust cover from the threaded end of the altitude pressure switch, S813 [1], if it is installed.

(b) Put the altitude pressure switch, S813 [1] in its position on the J23 junction box.

(c) Install the screws [3] that attach the altitude pressure switch, S813 [1] to the J23 junction box.

1) Tighten the screws [3] (TASK 20-50-11-910-801).

(d) Install the D2886 electrical connector [2] on the altitude pressure switch, S813 [1].

F. S813 Altitude Pressure Switch Operational Test

SUBTASK 35-22-41-480-002

(1) Do these steps to install the test equipment on the altitude pressure switch, S813 [1]:

(a) Get access to the J23 junction box.

(b) Make sure that the dust cover is removed from the altitude pressure switch, S813 [1].

(c) Find the Altitude Pressure Switch fitting through the hole in the forward side of the J23 junction box.

(d) Connect these components to the altitude pressure switch:

NOTE: The altitude pressure switch can be moved from its position a small distance to attach the test equipment.

NOTE: If the air data model test set, COM-1914, is used, do not use the other tools.

1) adapter, STD-3900

2) hose, STD-1318

3) connector, STD-1319

4) gauge, STD-1320

5) shutoff valve, STD-1321

6) vacuum pump, COM-1931

7) air data model test set, COM-1914.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 35-22-41-865-006

(2) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	8	C00785	OXYGEN MAN CONT

LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-999

F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

LOM ALL

(a) Make sure that circuit breakers are open.

NOTE: If these circuit breakers are closed, all the oxygen box doors will open when you do the operational test. This will cause all the oxygen masks to fall from the oxygen boxes.

SUBTASK 35-22-41-865-007

(3) Make sure that this circuit breaker is closed:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-460, 464-999

SUBTASK 35-22-41-864-002

(4) Slowly decrease the pressure to the altitude pressure switch until the PASS OXY ON light, on the P5-14 panel, comes on.

SUBTASK 35-22-41-212-003

(5) Make sure that the PASS OXY ON light comes on between 17.8 in. (452 mm) and 17.3 in. (439.4 mm) of mercury absolute (14,000 ±350 ft (4267 ±107 m) cabin altitude).

(a) Make sure that the two MASTER CAUTION lights and the OVERHEAD annunciation on the master caution display come on.

(b) Push one of the two MASTER CAUTION lights to reset the system.

(c) Make sure that all of the annunciations on the master caution displays go out.

LOM 461-463

SUBTASK 35-22-41-864-003

(6) Slowly decrease the vacuum pressure to the altitude pressure switch until the PASS OXY ON light, on the P5-14 panel, comes on.

SUBTASK 35-22-41-212-004

(7) Make sure that the PASS OXY ON light, on the P5-14 panel, comes ON between 17.3 in. (440 mm) and 16.9 in. (430 mm) of mercury absolute (14,650 ±350 ft (4465 ±107 m) cabin altitude).

(a) Make sure that the two MASTER CAUTION lights and the OVERHEAD annunciation on the master caution display come on.

(b) Push one of the two MASTER CAUTION lights to reset the system.

(c) Make sure that all of the annunciations on the master caution displays go out.

LOM ALL

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 35-22-41-863-002

> **CAUTION** DO NOT RELEASE THE VACUUM (PRESSURE) TOO QUICKLY AND SUDDENLY. IF YOU DO NOT OBEY, DAMAGE TO THE ALTITUDE PRESSURE SWITCH CAN OCCUR.

(8) Slowly release the vacuum (pressure) to the altitude pressure switch, S813.

SUBTASK 35-22-41-080-002

(9) Do these steps to remove the altitude simulation test equipment from the pressure switch:

(a) Remove the test equipment.

(b) If necessary, install the screws [3] that attach the altitude pressure switch, S813 [1] to the J23 junction box.

(c) Install the cover to the J23 junction box.

SUBTASK 35-22-41-865-009

(10) Open this circuit breaker for 1-2 seconds, then close the circuit breaker.

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND

NOTE: This is to reset the passenger oxygen control relay(s).

SUBTASK 35-22-41-865-008

(11) Remove the safety tags and close these circuit breakers:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	8	C00785	OXYGEN MAN CONT
LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-999			
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

LOM ALL

G. Put the Airplane Back to Its Usual Condition

SUBTASK 35-22-41-410-002

(1) Close this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

OXYGEN CYLINDER (CDS) - MAINTENANCE PRACTICES

1. General

A. This procedure contains scheduled maintenance task data.

B. This procedure has these tasks:

(1) Passenger oxygen cylinder (CDS) deactivation.

(2) Passenger oxygen cylinder (CDS) activation.

C. All replacement oxygen cylinders are supplied with a safety pin. The safety pin is installed in the actuator assembly of the oxygen cylinder. The cylinder cannot release (start oxygen flow) when the safety pin is correctly installed.

D. The safety pin is to be installed (oxygen cylinder deactivation) whenever the cylinder or lavatory service unit is removed from the airplane. Once the cylinder or lavatory service unit is installed, the safety pin must be removed (oxygen cylinder activation) prior to returning the aircraft to service.

E. Each lavatory service unit has an oxygen cylinder. The oxygen cylinder is connected to the oxygen masks. The actuator assembly on the cylinder has a discharge indicator tape and a release lanyard. If the discharge indicator tape is damaged or the release lanyard is removed, oxygen has been released from the cylinder. The flow of oxygen is begun by the downward pull of the oxygen mask by the passenger. The cylinder must be correctly activated to release oxygen.

TASK 35-22-51-040-801

2. Oxygen Cylinder (CDS) Deactivation

(Figure 201)

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-31-000-804-001	ASU and LSU Oxygen Mask Packing (P/B 201)
35-22-51-000-801	LSU Oxygen Cylinder (CDS) Removal (P/B 401)
35-22-51-400-801	LSU Oxygen Cylinder (CDS) Installation (P/B 401)

B. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
COM-14584	Safety Pin and Flag - Constant Dispensing System Part #: C35003-10 Supplier: 81205 Part #: E71401-00 Supplier: D1379 Opt Part #: 4498016-000 Supplier: D1379

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Prepare to Deactivate the Oxygen Cylinder

SUBTASK 35-22-51-910-001

(1) Read and obey the (Oxygen System General Maintenance Practices, TASK 35-00-00-910-801) before you do the maintenance.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 35-22-51-010-001

(2) Open the service unit if to get access to the oxygen cylinder:

(a) Put a rod or flat tool into the latch access hole or door clearance.

(b) Push the tool up to release the door latch.

(c) Open the oxygen box door.

(d) Let the oxygen masks come out.

SUBTASK 35-22-51-210-001

(3) Do these checks at the actuator assembly on the oxygen cylinder, before you deactivate the oxygen cylinder.

(a) Make sure that the discharge indicator tape has no damage or holes.

NOTE: A damaged discharge indicator tape will show that an over pressure condition caused oxygen to flow from the relief port.

(b) Make sure that the release lanyard is fully engaged in the actuator assembly.

NOTE: A disengaged release lanyard will show that an oxygen cylinder release caused oxygen to flow from the masks.

SUBTASK 35-22-51-900-001

(4) If the discharge indicator tape is damaged or the release lanyard is disengaged, replace the applicable oxygen cylinder.

(a) Do these steps to replace the LSU oxygen cylinder.

These are the tasks:

(LSU Oxygen Cylinder (CDS) Removal, TASK 35-22-51-000-801)

(LSU Oxygen Cylinder (CDS) Installation, TASK 35-22-51-400-801).

E. Deactivate the Oxygen Cylinder

SUBTASK 35-22-51-480-001

(1) Install the safety pin and flag, COM-14584 into the actuator assembly of the oxygen cylinder.

NOTE: The safety pin prevents the accidental removal of the lanyard. If the lanyard is removed, the oxygen cylinder will release oxygen. If the oxygen is released, it will be necessary to replace the oxygen cylinder.

SUBTASK 35-22-51-410-001

(2) If no more maintenance is necessary, close the service unit.

(a) To pack the oxygen masks, do this task: ASU and LSU Oxygen Mask Packing, TASK 35-22-31-000-804-001.

(b) Close the oxygen box door and push on it to engage the door latch.

NOTE: The latch will usually make a "click" noise when it fully engages.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

CDS OXYGEN CYLINDER (EXAMPLE)

2336309 S0000531249_V3

Oxygen Cylinder (CDS) Activation/Deactivation
Figure 201/35-22-51-990-801

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 35-22-51-440-801

3. Oxygen Cylinder (CDS) Activation

(Figure 201)

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-22-31-000-804-001	ASU and LSU Oxygen Mask Packing (P/B 201)
35-22-31-400-805-001	LSU Oxygen Mask Installation (P/B 401)
35-22-51-000-801	LSU Oxygen Cylinder (CDS) Removal (P/B 401)
35-22-51-400-801	LSU Oxygen Cylinder (CDS) Installation (P/B 401)

B. 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 #: C35003-10 Supplier: 81205 Part #: E71401-00 Supplier: D1379 Opt Part #: 4498016-000 Supplier: D1379

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Prepare to Activate the Oxygen Cylinder

SUBTASK 35-22-51-910-002

(1) Read and obey the (Oxygen System General Maintenance Practices, TASK 35-00-00-910-801) before you do the maintenance.

SUBTASK 35-22-51-410-002

(2) Open the service unit if to get access to the oxygen cylinder:

(a) Put a rod or flat tool into the latch access hole or door clearance.

(b) Push the tool up to release the door latch.

(c) Open the oxygen box door.

(d) Let the oxygen masks come out.

SUBTASK 35-22-51-080-001

(3) Do these checks at the actuator assembly on the oxygen cylinder, before you activate the oxygen cylinder.

(a) Make sure that the discharge indicator tape has no damage or holes.

NOTE: A damaged discharge indicator tape will show that an over pressure condition caused oxygen to flow from the relief port.

(b) Make sure that the release lanyard assembly is fully engaged in the actuator assembly.

NOTE: A disengaged release lanyard will show that an oxygen cylinder release caused oxygen to flow from the masks.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 35-22-51-210-002

(4) If the discharge indicator tape is damaged or the release lanyard is disengaged, replace the applicable oxygen cylinder.

(a) Do these steps to replace the LSU oxygen cylinder.

These are the tasks:

(LSU Oxygen Cylinder (CDS) Removal, TASK 35-22-51-000-801)

(LSU Oxygen Cylinder (CDS) Installation, TASK 35-22-51-400-801).

E. Activate the Oxygen Cylinder

SUBTASK 35-22-51-410-003

(1) To pack the oxygen masks, do this task:LSU Oxygen Mask Installation, TASK 35-22-31-400-805-001.

SUBTASK 35-22-51-080-002

WARNING	REMOVE THE SAFETY PIN FROM THE OXYGEN CYLINDER. THE SAFETY PIN PREVENTS THE RELEASE OF OXYGEN. IF THE SAFETY PIN IS IN THE OXYGEN CYLINDER DURING AN EMERGENCY, THE OXYGEN SYSTEM WILL NOT OPERATE. THIS CAN CAUSE INJURIES TO PASSENGERS.

(2) Remove the safety pin and flag, COM-14584 from the actuator assembly of the oxygen cylinder.

NOTE: The safety pin prevents the accidental removal of the release lanyard. If the release lanyard is removed, the oxygen cylinder will release oxygen. If the oxygen is released, it will be necessary to replace the oxygen cylinder.

SUBTASK 35-22-51-210-003

WARNING	MAKE SURE THAT THE RELEASE LANYARD AND MASK LANYARDS CAN MOVE FREELY. THE LANYARDS PULL THE RELEASE PIN WHEN THE MASKS COME DOWN DURING AN EMERGENCY. IF THE ROUTING OF THE RELEASE LANYARD AND MASK LANYARDS IS INCORRECT, THE OXYGEN DISTRIBUTION SYSTEM WILL NOT OPERATE. THIS CAN CAUSE INJURIES TO PASSENGERS.

(3) Make sure that the release lanyard and mask lanyards can move freely.

SUBTASK 35-22-51-410-004

(4) If no more maintenance is necessary, close the service unit.

(a) To pack the oxygen masks, do this task: ASU and LSU Oxygen Mask Packing, TASK 35-22-31-000-804-001.

(b) Close the oxygen box door and push on it to engage the door latch.

NOTE: The latch will usually make a "click" noise when it fully engages.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

OXYGEN CYLINDER (CDS) - REMOVAL/INSTALLATION

1. General

A. This procedure contains scheduled maintenance task data.

B. This procedure contains these tasks:

(1) Lavatory Service Unit (LSU) Oxygen Cylinder (CDS) Removal

(2) Lavatory Service Unit (LSU) Oxygen Cylinder (CDS) Installation.

C. Before you do maintenance on an oxygen system component that contains an oxygen cylinder you must install a safety pin in the oxygen cylinder actuator assembly. The safety pin will permit the oxygen cylinder to be handled and stored. If the safety pin is not installed, oxygen release can occur.

D. All spare oxygen cylinders are supplied with a safety pin installed in the actuator assembly.

E. When you do the removal and installation procedures for the LSU, it is necessary to open the oxygen box door. When the oxygen box door is opened, the oxygen masks will drop (deploy). After you install the oxygen cylinder, you must then do the packing procedure for the oxygen masks.

TASK 35-22-51-000-801

2. LSU Oxygen Cylinder (CDS) Removal

(Figure 401)

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
35-22-31-000-808-001	LSU Oxygen Mask Removal (P/B 401)
35-22-51-040-801	Oxygen Cylinder (CDS) Deactivation (P/B 201)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Prepare the LSU Oxygen Cylinder (CDS) for Removal

SUBTASK 35-22-51-010-002

(1) Do these steps to open the LSU oxygen box [51]:

(a) Put a tool into the latch access hole.

(b) Push up on the tool to operate the door latch.

(c) Open the oxygen box door.

(d) Let the oxygen masks fall.

(e) Do not pull on the oxygen masks.

NOTE: If you pull on the oxygen masks, the oxygen cylinder will release oxygen.

(f) Put the masks and streamer out of the way during the maintenance.

SUBTASK 35-22-51-210-004

(2) Do these checks at the actuator assembly [55] on the oxygen cylinder [52], before you deactivate the oxygen cylinder.

(a) Make sure that the discharge indicator tape has no damage or holes.

NOTE: A damaged discharge indicator tape will show that an over pressure condition caused oxygen to flow from the relief port.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(b) Make sure that the release lanyard is fully engaged in the actuator assembly.

NOTE: A disengaged release lanyard will show that the oxygen cylinder released oxygen to flow from the masks.

SUBTASK 35-22-51-040-001

(3) If the cylinder has not released oxygen, do this task: Oxygen Cylinder (CDS) Deactivation, TASK 35-22-51-040-801.

NOTE: The oxygen cylinder deactivation is necessary to prevent the accidental release of oxygen. The release of oxygen will make it necessary to replace the cylinder.

LOM 404, 416, 422, 425, 432-434, 440, 442, 445-447, 450-999; LOM 402, 406, 407 POST SB 737-35-1146; AIRPLANES WITHOUT 4576001-101 OR 4576001-103 LAVATORY OXYGEN BOX ASSEMBLY

D. Remove the LSU Oxygen Cylinder (CDS)

SUBTASK 35-22-51-020-001

(1) Loosen the screws [54] that attach the oxygen cylinder [52] to the oxygen box [51].

SUBTASK 35-22-51-020-002

(2) Disconnect the oxygen mask hoses [59] from the oxygen manifold [60].

SUBTASK 35-22-51-020-003

(3) Do these steps to remove the oxygen cylinder [52]:

(a) Make sure the safety pin [56] is installed in the actuator assembly [55].

(b) Remove the washers [53] and screws [54] that attach the oxygen cylinder [52] to the oxygen box [51].

1) Keep the fasteners for the installation.

(c) Remove the oxygen cylinder [52] from the oxygen box [51].

LOM 404, 416, 422, 425, 432-434, 440, 442, 445-447, 450-999; LOM 402, 406, 407 POST SB 737-35-1146; AIRPLANES WITH 4576001-101 OR 4576001-103 LAVATORY OXYGEN BOX ASSEMBLY

E. Remove the LSU Oxygen Cylinder (CDS)

SUBTASK 35-22-51-020-004

(1) Do this task, LSU Oxygen Mask Removal, TASK 35-22-31-000-808-001.

SUBTASK 35-22-51-020-005

(2) Disconnect the deployment straps [63] from the oxygen box [51].

(a) Push the strap end through the slot on the door.

(b) Put the loose end of the strap out of the way during maintenance.

SUBTASK 35-22-51-020-006

(3) Do these steps to remove the oxygen cylinder [52]:

(a) Make sure that the safety pin [56] is installed in the actuator assembly [55].

(b) Cut and remove the cable ties [62] that attach the oxygen cylinder [52] to the oxygen box [51].

(c) Remove the oxygen cylinder [52] from the oxygen box [51].

LOM 404, 416, 422, 425, 432-434, 440, 442, 445-447, 450-999; LOM 402, 406, 407 POST SB 737-35-1146

——— END OF TASK ———

ECCN 9E991 BOEING PROPRIETARY - See title page for details

AFT LAVATORY
(EXAMPLE)

2336346 S0000531342_V2

CDS Oxygen Cylinder Installation
Figure 401/35-22-51-990-802 (Sheet 1 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

CDS Oxygen Cylinder Installation
Figure 401/35-22-51-990-802 (Sheet 2 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

CDS Oxygen Cylinder Installation
Figure 401/35-22-51-990-802 (Sheet 3 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

ACTUATOR ASSEMBLY

B

2336351 S0000531344_V3

CDS Oxygen Cylinder Installation
Figure 401/35-22-51-990-802 (Sheet 4 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 35-22-51-400-801

3. LSU Oxygen Cylinder (CDS) Installation

Figure 401

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
35-22-31-400-805-001	LSU Oxygen Mask Installation (P/B 401)
35-22-51-440-801	Oxygen Cylinder (CDS) Activation (P/B 201)

B. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
COM-14752	Installation Tool - Cable Tie (Used with 0.18-inch, 0.25-inch, 0.31-inch wide bands) Part #: GS4MT-E Supplier: 06383 Opt Part #: GS4MT Supplier: 06383

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Prepare for the LSU Oxygen Cylinder Installation

SUBTASK 35-22-51-210-005

(1) Do these checks at the actuator assembly [55] on the oxygen cylinder [52].

(a) Make sure that the discharge indicator tape has no damage or holes.

NOTE: A damaged discharge indicator tape will show that an over pressure condition caused oxygen to flow from the relief port.

(b) Make sure that the lanyard assembly is fully engaged in the actuator assembly [55].

NOTE: A disengaged lanyard assembly will show that an oxygen cylinder activation caused oxygen to flow from the masks.

(c) Make sure that the safety pin [56] is installed in the actuator assembly [55].

SUBTASK 35-22-51-800-001

(2) If the oxygen cylinder [52] is not serviceable, discard it.

SUBTASK 35-22-51-800-002

(3) If the oxygen cylinder [52] is serviceable, do the subsequent procedure.

LOM 404, 416, 422, 425, 432-434, 440, 442, 445-447, 450-999; LOM 402, 406, 407 POST SB 737-35-1146; AIRPLANES WITHOUT 4576001-101 OR 4576001-103 LAVATORY OXYGEN BOX ASSEMBLY

E. Install the LSU Oxygen Cylinder

SUBTASK 35-22-51-410-005

(1) Put the oxygen cylinder [52] in its position in the oxygen box [51], with the part number visible.

NOTE: The part number placard and oxygen manifold will be set in the direction of the oxygen box door.

SUBTASK 35-22-51-410-006

(2) Install the oxygen cylinder [52] with the washers [53] and screws [54].

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 404, 416, 422, 425, 432-434, 440, 442, 445-447, 450-999; LOM 402, 406, 407 POST SB 737-35-1146; AIRPLANES WITHOUT 4576001-101 OR 4576001-103 LAVATORY OXYGEN BOX ASSEMBLY (Continued)

SUBTASK 35-22-51-420-001

(3) Connect the oxygen supply line to the oxygen manifold [60] on the oxygen cylinder [52].

NOTE: Make sure the oxygen supply lines are tightly connected to the manifold.

SUBTASK 35-22-51-440-001

(4) Do this task: Oxygen Cylinder (CDS) Activation, TASK 35-22-51-440-801.

LOM 404, 416, 422, 425, 432-434, 440, 442, 445-447, 450-999; LOM 402, 406, 407 POST SB 737-35-1146; AIRPLANES WITH 4576001-101 OR 4576001-103 LAVATORY OXYGEN BOX ASSEMBLY

F. Install the LSU Oxygen Cylinder

SUBTASK 35-22-51-410-007

(1) Put the oxygen cylinder [52] in its position in the oxygen box [51], with the part number visible.

NOTE: The part number placard and oxygen manifold will be set in the direction of the oxygen box door.

SUBTASK 35-22-51-410-008

(2) Install the oxygen cylinder [52] to the oxygen box [51].

(a) Loosely attach the oxygen cylinder [52] and cable ties [62] to the oxygen box [51].

(b) Adjust the cable tie installation tool, COM-14752 to tension setting 8.

(c) Tighten the cable ties [62] with the cable tie installation tool, COM-14752.

SUBTASK 35-22-51-420-002

(3) Install the deployment straps [63].

(a) Push the loose end of the strap through the slot on the door.

(b) Pull the strap back through the slot until it stops on the strap seam.

SUBTASK 35-22-51-420-003

(4) Do this task: LSU Oxygen Mask Installation, TASK 35-22-31-400-805-001.

SUBTASK 35-22-51-440-002

(5) Do this task: Oxygen Cylinder (CDS) Activation, TASK 35-22-51-440-801.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

PORTABLE OXYGEN EQUIPMENT - INSPECTION/CHECK

1. General

A. This procedure contains scheduled maintenance task data.

B. This procedure has these tasks:

(1) Portable Oxygen Cylinder Pressure and Condition Check

(2) Oxygen Cylinder Leak Check.

C. The portable oxygen cylinders are installed at different locations in the passenger compartment. Do not try to adjust a unit in the field. Remove any portable oxygen cylinders that do not operate correctly. Make sure approved persons repair any damaged oxygen cylinders.

TASK 35-31-00-710-801

2. Portable Oxygen Cylinder Pressure and Condition Check

(Figure 601, Figure 602)

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-31-00-100-801	Clean the Portable Oxygen System Components (P/B 701)
35-31-01-960-801	Replace Portable Oxygen Cylinder (P/B 401)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Prepare for the Check

SUBTASK 35-31-00-910-003

(1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

D. Portable Oxygen Cylinder Pressure Check

SUBTASK 35-31-00-210-005

(1) Go to each portable oxygen cylinder location.

SUBTASK 35-31-00-210-002

(2) Check the portable oxygen cylinder pressure gage, as follows:

(a) For oxygen cylinders US DOT-3AA-1800, make sure that the portable oxygen cylinder pressure gage is not more than 1800 psi (12,411 kPa) at 70°F (21°C).

NOTE: The Figure 602 shows the equivalent portable oxygen cylinder pressures for the temperatures other than 70°F (21°C).

(b) For oxygen cylinders US DOT-3HT-1850, US DOT-E8162-1850, US DOT-SP-8162–1850, US DOT-SP-10915–1850, and US DOT-SP-10945-1850 make sure that the portable oxygen cylinder pressure gage is not more than 1850 psi (12,755 kPa) at 70°F (21°C).

NOTE: The Figure 602 shows the equivalent portable oxygen cylinder pressures for the temperatures other than 70°F (21°C).

(c) If the pressure value is more than maximum allowable pressure, replace the portable oxygen cylinder (TASK 35-31-01-960-801).

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 35-31-00-960-001

(3) Replace the portable oxygen cylinder if the gage pressure is below the minimum set by the airline or regulatory authority.

E. Portable Oxygen Cylinder Condition Check

SUBTASK 35-31-00-210-004

(1) Make sure that the oxygen cylinders are in a satisfactory condition.

LOM 404, 411, 416, 420, 422, 425, 427, 428, 432-434, 437, 438, 440, 442-447, 450-457, 461-463, 465

> **CAUTION** DO NOT PUT THE OXYGEN MASK HOSE NEAR THE ADJACENT STRUCTURE TO PREVENT RUBS OR KINKS. RUBS OR KINKS CAN CAUSE DAMAGE.

(a) Make sure that the oxygen mask hose is attached to the outlet if required by national authority.

LOM ALL

(b) Make sure that the portable oxygen cylinders and the attached oxygen masks are clean.

1) To clean the portable oxygen cylinder or oxygen mask, do this task: Clean the Portable Oxygen System Components, TASK 35-31-00-100-801.

(c) Make sure that the oxygen cylinders are not damaged.

1) If the portable oxygen cylinder or oxygen mask is damaged, replace the cylinder or the mask.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

PORTABLE OXYGEN CYLINDER (EXAMPLE)

G20188 S0006577857_V2

Portable Oxygen Inspection
Figure 601/35-31-00-990-801

ECCN 9E991 BOEING PROPRIETARY - See title page for details

NOTE:

MAXIMUM ALLOWABLE PRESSURE FOR FULLY SERVICED PORTABLE OXYGEN CYLINDER.

1 US DOT-3HT-1850 (STEEL), US DOT-E8162-1850 (COMPOSITE), US DOT-SP-8162-1850, US DOT-SP-10915-1850 (COMPOSITE) AND US DOT-SP-10945-1850 (COMPOSITE)

2 US DOT-3AA-1800 (STEEL)

G88766 S0006577858_V7

Portable Oxygen Cylinder-Pressure/Temperature Correction Chart
Figure 602/35-31-00-990-802

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 35-31-00-710-802

3. Portable Oxygen Cylinder Leak Check

(Figure 601)

A. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)

B. Consumable Materials

Reference	Description	Specification
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	AMS3819 Class 1 Grade A or B Form 1 (Supersede BMS15-5 CL A)
G50306	Compound - Leak Detection, Oxygen System	MIL-PRF-25567 (BAC5402)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Preparation

SUBTASK 35-31-00-910-004

(1) To read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

E. Portable Oxygen Cylinder Leak Check

SUBTASK 35-31-00-790-001

(1) Turn the knob on the ON-OFF valve counterclockwise to open it.

SUBTASK 35-31-00-790-002

(2) Do a check of the portable oxygen cylinder for leaks:

(a) Apply the leak detection compound, G50306 to all the fittings and connections.

(b) Look for bubbles to find leaks.

(c) Remove the leak detection compound, G50306 from the cylinder components with a cotton wiper, G00034 immediately after you do the check.

1) If you find a leak do these steps:

NOTE: Do not permit the leaks to continue.

a) Remove the portable oxygen cylinder from the airplane.

b) Install a fully serviced portable oxygen cylinder.

2) If there are no leaks, the portable oxygen cylinder is satisfactory.

SUBTASK 35-31-00-790-003

(3) Turn the knob on the ON-OFF valve clockwise to close it.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

PORTABLE OXYGEN SYSTEMS - CLEANING

1. General

A. This procedure contains this task:

(1) Clean the Portable Oxygen System Components.

B. When you do maintenance on the oxygen system, it is important that the work area is clean and free from contamination. If the work area is not clean, these conditions can occur:

(1) When contamination and an ignition source are near the oxygen, a fire or an explosion can occur.

(2) Contamination can inhibit the usual operation of the oxygen equipment.

(3) Contamination can supply dangerous fumes to the users of the oxygen equipment.

C. Clean and use a disinfectant on the oxygen mask face pieces after each use.

D. All oxygen system components must be clean and dry when they are installed.

TASK 35-31-00-100-801

2. Clean the Portable Oxygen System Components

A. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
SOPM 20-30-80	Solvents For General Cleaning of Metal (Series 80)

B. Consumable Materials

Reference	Description	Specification
B00541	Cleaner - General Purpose Household Detergent	
B01031	Cleaner - Disinfectant - West Wecodyne	
B01032	Cleaner - Disinfectant, Topical Gel - Airwick Antimicrobial	
B01033	Cleaner - Disinfectant - Lysol	
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	AMS3819 Class 1 Grade A or B Form 1 (Supersede BMS15-5 CL A)
G02186	Seal - Closed Cell Silicone Foam Rubber, Hydraulic Fluid Resistant	BMS1-68 Form III
G50140	Gloves - Protective, Latex or Nitrile	

C. Location Zones

Zone	Area
200	Upper Half of Fuselage
211	Flight Compartment - Left
212	Flight Compartment - Right

D. Clean the Portable Oxygen Cylinders

SUBTASK 35-31-00-910-001

(1) To read and obey the safety precautions and general instructions before you do the maintenance, do this task: Oxygen System General Maintenance Practices, TASK 35-00-00-910-801.

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SUBTASK 35-31-00-140-001

(2) To remove surface contamination from the portable oxygen cylinder, do this step:

(a) Rub the component(s) with a clean, dry, cotton wiper, G00034.

SUBTASK 35-31-00-140-002

(3) If you cannot remove the surface contamination with a dry cloth only, do this step:

WARNING ONLY USE CLEANING SOLVENTS ON THE OUTSIDE OF THE OXYGEN SYSTEM COMPONENTS. DO NOT USE CLEANING SOLVENTS ON THE INSIDE OF THE OXYGEN SYSTEM COMPONENTS.

(a) Clean the contamination with a clean cotton wiper, G00034 and an approved cleaning solvent, (SOPM 20-30-80).

SUBTASK 35-31-00-160-001

(4) Do these steps to clean the portable oxygen cylinder subassembly component(s):

(a) Remove the portable oxygen cylinder from the airplane.

(b) Use the instructions in the manufacturers overhaul manual to clean the component(s).

(c) Fully service the portable oxygen cylinder.

(d) Install the oxygen cylinder(s) in the correct location.

LOM 404, 411, 416, 420, 422, 425, 427, 428, 432-434, 437, 438, 440, 442-447, 450-457, 461-463, 465

(e) Connect the oxygen mask hose to the oxygen cylinder outlet.

LOM ALL

E. Clean the Portable Oxygen Cylinder Masks

SUBTASK 35-31-00-100-001

(1) PORTABLE OXYGEN CYLINDERS WITH SCOTT / AVOX PN 28301 DISPOSABLE OXYGEN MASKS:

(a) Replace the mask if it is used or dirty.

NOTE: The PN 28301 mask is used one time, then discarded and replaced. Do not try to clean or repair this mask.

(b) Rub the mask container with a dry cotton wiper, G00034 to remove the surface contamination, if it is necessary.

SUBTASK 35-31-00-910-002

(2) Read and obey the safety precautions and general instructions before you do the maintenance (TASK 35-00-00-910-801).

SUBTASK 35-31-00-160-002

(3) Use one of these detergent disinfectants (or equivalent) to clean the oxygen mask(s):

(a) general purpose household detergent cleaner, B00541

(b) West Wecodyne cleaner, B01031

(c) Airwick Antimicrobial cleaner, B01032

(d) Lysol cleaner, B01033

SUBTASK 35-31-00-160-003

(4) Put on Latex or Nitrile protective gloves, G50140 before handling the mask assembly. Discard the gloves when the cleaning procedure is complete.

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(5) Mix a solution of detergent disinfectant with warm water.

NOTE: Obey the instructions on the label.

SUBTASK 35-31-00-160-004

(6) Apply the solution to the face piece with a cotton wiper, G00034 or a seal, G02186.

SUBTASK 35-31-00-160-005

(7) Rinse the face piece in clear, warm water.

SUBTASK 35-31-00-160-006

(8) Completely dry the face piece with a dry cotton wiper, G00034.

SUBTASK 35-31-00-420-001

(9) Position the oxygen mask on the portable oxygen cylinder.

LOM 404, 411, 416, 420, 422, 425, 427, 428, 432-434, 437, 438, 440, 442-447, 450-457, 461-463, 465

(a) Connect the oxygen mask hose to the outlet of the oxygen cylinder.

END OF TASK

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PORTABLE OXYGEN EQUIPMENT - REMOVAL/INSTALLATION

1. General

A. This procedure has this task:

(1) Replace Portable Oxygen Cylinder.

B. The portable oxygen cylinders are installed at different locations in the passenger compartment. Do not try to adjust a unit in the field. Remove any portable oxygen cylinders that do not operate correctly. Make sure approved persons repair any damaged oxygen cylinders.

TASK 35-31-01-960-801

2. Replace Portable Oxygen Cylinder

(Figure 401)

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)
35-31-00-710-801	Portable Oxygen Cylinder Pressure and Condition Check (P/B 601)

B. Consumable Materials

Reference	Description	Specification
A50454	Tape - Masking, General Purpose, Scotch 234	

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Portable Oxygen Cylinder Removal

SUBTASK 35-31-01-910-001

(1) Read and obey the safety precautions and general instructions for the oxygen system before the maintenance (TASK 35-00-00-910-801).

SUBTASK 35-31-01-010-001

(2) If applicable, open the stowage compartment door to get access to the portable oxygen cylinder [1].

SUBTASK 35-31-01-000-001

(3) If applicable, loosen the straps that holds the portable oxygen cylinder [1] in place.

(a) Remove the portable oxygen cylinder [1].

SUBTASK 35-31-01-410-001

(4) If applicable, close the stowage compartment door.

E. Portable Oxygen Cylinder Installation

SUBTASK 35-31-01-010-002

(1) If applicable, open the stowage compartment door.

SUBTASK 35-31-01-210-003

(2) Make sure that the portable oxygen cylinder [1] is serviceable (TASK 35-31-00-710-801).

SUBTASK 35-31-01-400-001

(3) Put the portable oxygen cylinder [1] in the designated stowage area and secure it in place with the applicable straps.

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LOM 402, 404, 406, 407, 411, 416, 420, 422, 425-434, 437, 438, 440, 442-447, 450-463, 465-999

SUBTASK 35-31-01-000-010

(4) Remove plastic (bag) from regulator/valve assy.

SUBTASK 35-31-01-400-012

(5) Connect the mask hose to the outlet port on the regulator if required by national authority.

(a) If the oxygen mask is inside a resealable bag, open the bag, connect the oxygen mask hose to the HI outlet port of the pressure regulator, and seal the bag opening with Scotch General Purpose Masking Tape 234, A50454.

(b) If the oxygen mask is packed in a sealed plastic bag, make a hole sufficient for the oxygen mask hose to come out, connect the hose to the HI outlet port of the pressure regulator, and seal the hole with Scotch General Purpose Masking Tape 234, A50454.

LOM ALL

SUBTASK 35-31-01-410-002

CAUTION

DO NOT PUT THE OXYGEN MASK HOSE NEAR THE ADJACENT STRUCTURE TO PREVENT RUBS OR KINKS. RUBS OR KINKS CAN CAUSE DAMAGE.

(6) Make sure that the hose and the oxygen mask is stowed correctly.

LOM 402, 404, 406, 407, 411, 416, 420, 422, 425-434, 437, 438, 440, 442-447, 450-463, 465-999

(a) Fold carrying strap alongside of cylinder.

(b) Place disposable mask, packaged in plastic bag, flat against the cylinder.

(c) Attach folded straps and ends of the mask bag to the cylinder with Velcro straps on the cylinder.

1) If necessary, apply no more than one thickness (layer) of masking tape across each end of the package for an easy removal.

2) Make sure that the portable oxygen cylinder [1] is installed in the bracket so that the gauge is visible and the mask hose is not chaffing on any structure.

LOM ALL

SUBTASK 35-31-01-410-003

(7) Close the stowage compartment door, if applicable.

END OF TASK

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PORTABLE OXYGEN CYLINDER
(EXAMPLE)

G74822 S0006577865_V3

Portable Oxygen Equipment Installation
Figure 401/35-31-01-990-801

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PORTABLE PROTECTIVE BREATHING EQUIPMENT BOX - REMOVAL/INSTALLATION

1. General

A. This procedure has this task:

(1) Portable Protective Breathing Equipment Box Removal.

(2) Portable Protective Breathing Equipment Box Installation.

B. The portable Protective Breathing Equipment (PBE) is installed in various locations in the flight and passenger compartments.

C. In the flight compartment, the PBE consist of a smoke hood and protective box. It is bracket mounted in one or two of the following locations, depending on the option selected:

- The second observer's seat posts
- The forward face of Lav A
- And/or the flight deck closet

D. In the passenger compartment, the portable PBE consists of a smoke-hood and its protective box. Refer to the airplane's Layout of Passenger Arrangements (LOPA), to find the quantity and specific location of the PBE boxes.

TASK 35-31-02-000-801

2. Portable Protective Breathing Equipment Box Removal

A. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)

B. Location Zones

Zone	Area
211	Flight Compartment - Left

C. Remove the Portable Protective Breathing Equipment Box

SUBTASK 35-31-02-910-001

(1) Read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance (Oxygen System General Maintenance Practices, TASK 35-00-00-910-801).

SUBTASK 35-31-02-010-005

(2) Go into the flight compartment to get access to the portable PBE box [1]. It is located in one or two of the following locations, depending on the option selected:

- The second observer's seat posts
- The forward face of Lav A
- And/or the flight deck closet

LOM 402, 404, 406, 407, 411, 412, 415, 420, 422-434, 437-447, 450-999

NOTE: Additional portable protective breathing equipment is stored under the attendant seats.

LOM ALL

SUBTASK 35-31-02-010-008

(3) Go into the passenger compartment to get access to the portable protective breathing equipment (PBE). Refer to the airplane's Layout of Passenger Accommodations (LOPA's), to find the quantity and specific location of the PBE boxes

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 35-31-02-000-001

(4) Remove the PBE box from its storage mounting bracket or compartment.

SUBTASK 35-31-02-010-006

(5) If necessary, remove the fasteners that attach the protective box bracket to the second observer's seat.

(6) If necessary, remove the fasteners that attach the protective box to the left aft bulkhead of the flight compartment or the flight compartment closet.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

H48205 S0006577869_V2

Portable Protective Breathing Equipment Box Installation
Figure 401/35-31-02-990-801 (Sheet 1 of 3)

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Portable Protective Breathing Equipment Box Installation
Figure 401/35-31-02-990-801 (Sheet 2 of 3)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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Portable Protective Breathing Equipment Box Installation
Figure 401/35-31-02-990-801 (Sheet 3 of 3)

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TASK 35-31-02-400-801

3. Portable Protective Breathing Equipment Installation

A. References

Reference	Title
35-00-00-910-801	Oxygen System General Maintenance Practices (P/B 201)

B. Location Zones

Zone	Area
211	Flight Compartment - Left

C. Install the Portable Protective Breathing Equipment (PBE)

SUBTASK 35-31-02-910-002

(1) Read and obey the safety precautions and general instructions for the oxygen system before you do the maintenance (Oxygen System General Maintenance Practices, TASK 35-00-00-910-801).

SUBTASK 35-31-02-010-007

(2) As necessary, Install the fasteners that attach the PBE box mounting bracket to the second observer's seat post.

(a) Install the PBE box in its mounting bracket.

(3) As necessary, install the fasteners that attach the PBE box mounting bracket to the left aft bulkhead of the flight compartment or the flight compartment closet.

(a) Install the PBE box in its mounting bracket.

SUBTASK 35-31-02-400-001

(4) To install the passenger compartment PBE's, refer to the airplane's Layout of Passenger Accommodations (LOPA's) to find the quantity and specific location of the PBE boxes. Install the PBE box in its mounting bracket, or storage compartment, as applicable.

SUBTASK 35-31-02-410-002

(5) Apply a tamper seal as necessary.

——— END OF TASK ———

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