

CHAPTER

38

WATER/WASTE



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

CHAPTER 38
WATER/WASTE

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38-EFFECTIVE PAGES			38-10-00 (cont)			38-11-01 (cont)		
1 thru 9	Feb 15/2025		R 205	Feb 15/2025		412	Oct 15/2024	
10	BLANK		R 206	Feb 15/2025		413	Oct 15/2024	
38-CONTENTS			207	Jun 15/2024		414	Oct 15/2024	
1	Feb 15/2024		208	Oct 15/2024		415	Oct 15/2024	
2	Oct 15/2024		209	Oct 15/2024		416	Oct 15/2024	
3	Oct 15/2024		210	Feb 15/2024		417	Oct 15/2024	
4	Oct 15/2024		211	Feb 15/2024		418	BLANK	
5	Oct 15/2024		212	Feb 15/2024		38-11-03		
O 6	Feb 15/2025		213	Feb 15/2024		401	Jun 15/2024	
7	Oct 15/2024		214	Feb 15/2024		402	Jun 15/2024	
8	Oct 15/2024		215	Feb 15/2024		403	Oct 15/2024	
9	Oct 15/2024		216	BLANK		404	Jun 15/2024	
10	Oct 15/2024	38-10-00				405	Jun 15/2024	
11	Oct 15/2024		701	Feb 15/2022		406	Oct 15/2024	
12	Oct 15/2024		702	Feb 15/2022		407	Oct 15/2024	
13	Oct 15/2024		703	Feb 15/2022		408	Oct 15/2024	
14	Oct 15/2024		704	Feb 15/2022		409	Jun 15/2024	
15	Oct 15/2024		705	Oct 15/2017		410	Jun 15/2024	
16	Oct 15/2024		706	Oct 15/2017		411	Oct 15/2024	
17	Oct 15/2024		707	Oct 15/2017		412	Jun 15/2024	
18	Oct 15/2024		708	Jun 15/2023		413	Oct 15/2024	
19	Oct 15/2024		709	Oct 15/2024		414	Jun 15/2024	
20	Oct 15/2024		710	Nov 15/2022		415	Jun 15/2024	
38-00-00			711	Oct 15/2020		416	BLANK	
901	Feb 15/2018		712	Oct 15/2017	38-11-04			
902	Feb 15/2018		38-11-01			401	Jun 15/2024	
903	Feb 15/2018		R 401	Feb 15/2025		402	Jun 15/2024	
904	Feb 15/2018		402	Oct 15/2024		403	Jun 15/2021	
905	Feb 15/2024		403	Oct 15/2024		404	BLANK	
906	Feb 15/2024		404	Oct 15/2024	38-11-05			
907	Oct 15/2019		405	Jun 15/2023		201	Oct 15/2024	
908	Feb 15/2024		406	Jun 15/2023		202	Oct 15/2024	
38-10-00			407	Jun 15/2023		203	Oct 15/2024	
201	Feb 15/2023		408	Oct 15/2024		204	Oct 15/2024	
202	Jun 15/2023		409	Oct 15/2024		205	Oct 15/2024	
R 203	Feb 15/2025		410	Jun 15/2023		206	Oct 15/2024	
R 204	Feb 15/2025		411	Oct 15/2023		207	Oct 15/2024	

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38-11-05 (cont)			38-11-06 Config 1			38-11-09		
208	Oct 15/2024		401	Oct 15/2024		401	Feb 15/2024	
209	Oct 15/2024		402	Oct 15/2024		402	Oct 15/2024	
210	Oct 15/2024		403	Oct 15/2024		403	Feb 15/2024	
211	Oct 15/2024		404	Oct 15/2024		404	Oct 15/2022	
212	Oct 15/2024		405	Oct 15/2020		405	Oct 15/2023	
213	Oct 15/2024		406	Jun 15/2023		406	Oct 15/2024	
214	Jun 15/2024		407	Jun 15/2023		407	Oct 15/2024	
215	Jun 15/2024		408	Jun 15/2023		408	Feb 15/2024	
216	Jun 15/2024		409	Jun 15/2023	38-13-01			
217	Jun 15/2024		410	Jun 15/2023		401	Oct 15/2024	
218	Jun 15/2024	38-11-07				402	Jun 15/2023	
219	Oct 15/2024		401	Oct 15/2024		403	Oct 15/2024	
220	Jun 15/2024		402	Oct 15/2024		404	Oct 15/2024	
221	Jun 15/2024		403	Oct 15/2024		405	Jun 15/2021	
222	Jun 15/2024		404	Jun 15/2023		406	BLANK	
223	Jun 15/2024		405	Oct 15/2024	38-14-01			
224	Jun 15/2024		406	Oct 15/2024	R 401	Feb 15/2025		
225	Jun 15/2024		407	Oct 15/2024		402	Oct 15/2024	
226	Jun 15/2024		408	Oct 15/2024		403	Jun 15/2023	
227	Jun 15/2024		409	Oct 15/2024		404	Oct 15/2021	
228	Jun 15/2024		410	Oct 15/2024		405	Oct 15/2023	
229	Jun 15/2024		411	Oct 15/2024		406	Jun 15/2023	
230	Jun 15/2024		412	BLANK		407	Oct 15/2024	
231	Jun 15/2024	38-11-08			38-14-01			
232	Jun 15/2024		401	Feb 15/2024		501	Jun 15/2023	
233	Jun 15/2024		402	Oct 15/2024		502	Jun 15/2023	
234	Jun 15/2024		403	Feb 15/2024		503	Jun 15/2023	
235	Jun 15/2024		404	Oct 15/2024		504	Jun 15/2023	
236	Jun 15/2024		405	Feb 15/2024		505	Oct 15/2024	
38-11-06 Config 1			406	Feb 15/2024		506	Jun 15/2023	
201	Jun 15/2018		407	Feb 15/2024		507	Jun 15/2023	
202	Oct 15/2024		408	Feb 15/2024		508	BLANK	
203	Oct 15/2020		409	Feb 15/2024	38-14-02			
204	Oct 15/2024		410	Oct 15/2024		401	Oct 15/2024	
205	Jun 15/2018		411	Feb 15/2024		402	Oct 15/2024	
206	Jun 15/2018		412	BLANK		403	Oct 15/2024	

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38-14-02 (cont)			38-31-01			38-31-01 (cont)		
404	Oct 15/2024		401	Oct 15/2024		A 437	Feb 15/2025	
405	Oct 15/2024		R 402	Feb 15/2025		A 438	BLANK	
406	Oct 15/2024		R 403	Feb 15/2025		38-31-02		
38-14-03			R 404	Feb 15/2025		401	Jun 15/2023	
401	Feb 15/2024		R 405	Feb 15/2025		402	Jun 15/2023	
402	Feb 15/2024		R 406	Feb 15/2025		403	Jun 15/2023	
403	Feb 15/2024		R 407	Feb 15/2025		404	Jun 15/2023	
404	Feb 15/2024		R 408	Feb 15/2025		405	Jun 15/2023	
405	Feb 15/2024		R 409	Feb 15/2025		406	BLANK	
406	BLANK		R 410	Feb 15/2025		38-31-06		
38-31-00			R 411	Feb 15/2025		401	Feb 15/2024	
201	Oct 15/2014		R 412	Feb 15/2025		402	Feb 15/2024	
202	Jun 15/2018		R 413	Feb 15/2025		403	Feb 15/2024	
203	Oct 15/2024		R 414	Feb 15/2025		404	Feb 15/2024	
204	Oct 15/2024		R 415	Feb 15/2025		405	Feb 15/2024	
205	Jun 15/2018		R 416	Feb 15/2025		406	Feb 15/2024	
206	Jun 15/2018		R 417	Feb 15/2025		407	Feb 15/2024	
207	Oct 15/2022		R 418	Feb 15/2025		408	Feb 15/2024	
208	Oct 15/2024		R 419	Feb 15/2025		38-32-00		
209	Oct 15/2022		R 420	Feb 15/2025		201	Oct 15/2024	
210	Oct 15/2022		O 421	Feb 15/2025		202	Oct 15/2024	
211	Oct 15/2022		O 422	Feb 15/2025		203	Oct 15/2024	
212	BLANK		O 423	Feb 15/2025		204	Oct 15/2024	
38-31-00			O 424	Feb 15/2025		205	Oct 15/2024	
501	Jun 15/2024		O 425	Feb 15/2025		206	Oct 15/2024	
502	Feb 15/2016		O 426	Feb 15/2025		207	Oct 15/2024	
503	Feb 15/2016		O 427	Feb 15/2025		208	Feb 15/2024	
504	Feb 15/2016		O 428	Feb 15/2025		209	Feb 15/2024	
505	Feb 15/2016		O 429	Feb 15/2025		210	Feb 15/2024	
506	BLANK		O 430	Feb 15/2025		211	Feb 15/2024	
38-31-00			O 431	Feb 15/2025		212	Feb 15/2024	
701	Jun 15/2021		O 432	Feb 15/2025		213	Feb 15/2024	
702	Jun 15/2024		O 433	Feb 15/2025		214	Feb 15/2024	
703	Oct 15/2024		O 434	Feb 15/2025		215	Feb 15/2024	
704	Oct 15/2024		A 435	Feb 15/2025		216	Feb 15/2024	
705	Jun 15/2021		A 436	Feb 15/2025		217	Feb 15/2024	
706	Feb 15/2021					218	Feb 15/2024	

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38-32-00 (cont)			38-32-00 (cont)			38-32-00 (cont)		
219	Feb 15/2024		255	Feb 15/2024		715	Feb 15/2024	
220	Feb 15/2024		256	Feb 15/2024		716	Feb 15/2024	
221	Feb 15/2024		38-32-00			717	Feb 15/2024	
222	Feb 15/2024		401	Feb 15/2024		718	Feb 15/2024	
223	Feb 15/2024		402	Feb 15/2024		719	Feb 15/2024	
224	Feb 15/2024		403	Feb 15/2024		720	Feb 15/2024	
225	Feb 15/2024		404	Feb 15/2024		721	Feb 15/2024	
226	Feb 15/2024		405	Oct 15/2024		722	Oct 15/2018	
227	Feb 15/2024		406	Feb 15/2024		723	Oct 15/2018	
228	Oct 15/2024		407	Feb 15/2024		724	Oct 15/2018	
229	Feb 15/2024		408	BLANK		725	Oct 15/2018	
230	Feb 15/2024		38-32-00			726	Oct 15/2018	
231	Feb 15/2024		501	Feb 15/2024		727	Jun 15/2024	
232	Feb 15/2024		502	Feb 15/2024		728	Feb 15/2024	
233	Feb 15/2024		503	Feb 15/2024		729	Feb 15/2024	
234	Feb 15/2024		504	Feb 15/2024		730	Jun 15/2024	
235	Feb 15/2024		505	Feb 15/2024		731	Jun 15/2024	
236	Feb 15/2024		506	Feb 15/2024		732	Feb 15/2024	
237	Feb 15/2024		507	Feb 15/2024		733	Jun 15/2024	
238	Feb 15/2024		508	Feb 15/2024		734	Feb 15/2024	
239	Oct 15/2024		R 509	Feb 15/2025		735	Feb 15/2024	
240	Oct 15/2024		R 510	Feb 15/2025		736	Feb 15/2024	
241	Oct 15/2024		38-32-00			737	Feb 15/2024	
242	Oct 15/2024		701	Feb 15/2021		738	Feb 15/2024	
243	Oct 15/2024		702	Feb 15/2023		739	Feb 15/2024	
244	Oct 15/2024		703	Feb 15/2023		740	Feb 15/2024	
245	Oct 15/2024		704	Feb 15/2023		741	Feb 15/2024	
246	Oct 15/2024		705	Feb 15/2023		742	Feb 15/2024	
247	Oct 15/2024		706	Jun 15/2018		743	Feb 15/2024	
248	Oct 15/2024		707	Feb 15/2024		744	Feb 15/2024	
249	Feb 15/2024		708	Oct 15/2024		745	Feb 15/2024	
250	Feb 15/2024		709	Oct 15/2024		746	Feb 15/2024	
251	Feb 15/2024		710	Feb 15/2024		747	Feb 15/2024	
252	Feb 15/2024		711	Oct 15/2024		748	Feb 15/2024	
253	Feb 15/2024		712	Oct 15/2015		749	Oct 15/2024	
254	Feb 15/2024		713	Oct 15/2024		750	Jun 15/2024	
			714	Oct 15/2024				

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751	Feb 15/2024		426	Feb 15/2024		401	Oct 15/2024	
752	Feb 15/2024		427	Feb 15/2024		402	Oct 15/2024	
753	Feb 15/2024		428	Oct 15/2024		403	Oct 15/2024	
754	Feb 15/2024		429	Oct 15/2024		404	Oct 15/2024	
755	Feb 15/2024	R	430	Feb 15/2025		405	Oct 15/2024	
756	Feb 15/2024		431	Oct 15/2024		406	Oct 15/2024	
757	Feb 15/2024	R	432	Feb 15/2025		407	Oct 15/2024	
758	Feb 15/2024		433	Oct 15/2024		408	Oct 15/2024	
759	Feb 15/2024		434	Oct 15/2024		409	Oct 15/2024	
760	BLANK		435	Oct 15/2024		410	Oct 15/2024	
38-32-01 Config 1			436	Oct 15/2024		411	Oct 15/2024	
401	Jun 15/2023		437	Oct 15/2024		412	Oct 15/2024	
402	Jun 15/2023	R	438	Feb 15/2025		413	Oct 15/2024	
403	Jun 15/2023		439	Oct 15/2024		414	Oct 15/2024	
404	Jun 15/2023	R	440	Feb 15/2025		415	Oct 15/2024	
405	Jun 15/2023		441	Oct 15/2024		416	Oct 15/2024	
406	Jun 15/2023		442	Oct 15/2024		417	Oct 15/2024	
407	Jun 15/2023		443	Oct 15/2024		418	Oct 15/2024	
408	Jun 15/2023	R	444	Feb 15/2025		419	Oct 15/2024	
409	Jun 15/2023	R	445	Feb 15/2025		420	Oct 15/2024	
410	Jun 15/2023		446	Oct 15/2024		421	Oct 15/2024	
411	Jun 15/2023		447	Oct 15/2024		422	Oct 15/2024	
412	Jun 15/2023		448	Oct 15/2024		423	Oct 15/2024	
413	Jun 15/2023		449	Oct 15/2024		424	Oct 15/2024	
414	Jun 15/2023		450	Oct 15/2024		425	Oct 15/2024	
415	Feb 15/2024	R	451	Feb 15/2025		426	Oct 15/2024	
R 416	Feb 15/2025	R	452	Feb 15/2025		427	Oct 15/2024	
417	Feb 15/2023		453	Oct 15/2024		428	Oct 15/2024	
418	Feb 15/2024		454	Oct 15/2024		429	Oct 15/2024	
419	Feb 15/2024		455	Oct 15/2024		430	Oct 15/2024	
420	Jun 15/2023		456	Oct 15/2024		431	Oct 15/2024	
421	Oct 15/2024	R	457	Feb 15/2025		432	Oct 15/2024	
422	Oct 15/2024		458	Oct 15/2024		433	Oct 15/2024	
R 423	Feb 15/2025		459	Oct 15/2024		434	Oct 15/2024	
R 424	Feb 15/2025		460	BLANK		435	Oct 15/2024	
425	Oct 15/2024					436	Oct 15/2024	

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38-32-01 Config 2 (cont)			38-32-02 (cont)			38-32-04		
437	Oct 15/2024		204	Feb 15/2024		401	Feb 15/2024	
438	Oct 15/2024		205	Feb 15/2024		402	Feb 15/2024	
38-32-01 Config 3			206	Oct 15/2015		403	Feb 15/2024	
401	Feb 15/2024		38-32-03			404	Feb 15/2024	
402	Feb 15/2024		401	Jun 15/2023		405	Feb 15/2024	
403	Jun 15/2018		402	Oct 15/2024		406	Feb 15/2024	
404	Jun 15/2020		403	Jun 15/2023		407	Oct 15/2024	
405	Feb 15/2024		404	Oct 15/2024		408	Oct 15/2024	
406	Feb 15/2024		405	Jun 15/2023		409	Oct 15/2024	
407	Jun 15/2018		406	Jun 15/2023		410	Oct 15/2024	
408	Feb 15/2024		407	Oct 15/2024		411	Oct 15/2024	
409	Jun 15/2024		408	Feb 15/2024		412	Oct 15/2024	
410	Jun 15/2024		409	Feb 15/2024		413	Oct 15/2024	
411	Feb 15/2024		410	Oct 15/2024		414	Oct 15/2024	
412	Feb 15/2024		411	Feb 15/2024		415	Oct 15/2024	
413	Feb 15/2024		412	Feb 15/2024		416	Oct 15/2024	
414	Feb 15/2024		413	Oct 15/2024		417	Oct 15/2024	
415	Feb 15/2024		414	Oct 15/2024		418	Feb 15/2024	
416	Feb 15/2024		415	Oct 15/2024		419	Feb 15/2024	
417	Feb 15/2024		416	Oct 15/2024		420	Feb 15/2024	
R 418	Feb 15/2025		417	Oct 15/2024		421	Feb 15/2024	
R 419	Feb 15/2025		418	Jun 15/2023		422	BLANK	
R 420	Feb 15/2025		419	Jun 15/2023		38-32-05		
R 421	Feb 15/2025		420	Oct 15/2022		401	Feb 15/2024	
R 422	Feb 15/2025		421	Jun 15/2023		402	Feb 15/2024	
O 423	Feb 15/2025		422	Oct 15/2024		403	Oct 15/2015	
O 424	Feb 15/2025		423	Feb 15/2024		R 404	Feb 15/2025	
425	Feb 15/2024		424	Jun 15/2023		405	Jun 15/2024	
426	Feb 15/2024		38-32-03			406	Jun 15/2024	
427	Feb 15/2024		501	Feb 15/2024		407	Jun 15/2024	
428	Feb 15/2024		502	Feb 15/2024		408	Jun 15/2024	
429	Feb 15/2024		503	Feb 15/2024		409	Jun 15/2024	
430	BLANK		504	Feb 15/2024		505	Feb 15/2024	
38-32-02			505	Feb 15/2024		410	Jun 15/2024	
201	Feb 15/2024		506	Feb 15/2024		411	Jun 15/2024	
202	Feb 15/2024		507	Feb 15/2024		412	Jun 15/2024	
203	Feb 15/2024		508	Feb 15/2024		413	Jun 15/2024	

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414	BLANK		401	Oct 15/2014		401	Oct 15/2024	
38-32-06			402	Oct 15/2017		402	Oct 15/2024	
401	Feb 15/2024		403	Oct 15/2017		403	Oct 15/2024	
402	Oct 15/2024		404	Oct 15/2017		404	Oct 15/2024	
403	Feb 15/2024		405	Oct 15/2015		405	Oct 15/2024	
404	Feb 15/2024		406	Oct 15/2015		406	Oct 15/2024	
405	Feb 15/2020		38-32-10			38-33-00		
406	Feb 15/2020		201	Feb 15/2024		501	Oct 15/2024	
38-32-07			202	Feb 15/2024		502	Oct 15/2024	
201	Feb 15/2024		203	Feb 15/2024		503	Oct 15/2022	
202	Feb 15/2024		204	Feb 15/2024		504	Oct 15/2022	
203	Jun 15/2024		205	Feb 15/2024		505	Oct 15/2022	
204	Oct 15/2024		206	Feb 15/2024		506	Oct 15/2022	
205	Oct 15/2024		207	Feb 15/2024		507	Oct 15/2024	
206	Jun 15/2024		208	Feb 15/2024		508	Oct 15/2022	
207	Jun 15/2024		38-32-11			509	Oct 15/2022	
208	Feb 15/2024		201	Oct 15/2024		510	Oct 15/2022	
209	Jun 15/2024		202	Oct 15/2024		511	Oct 15/2024	
210	Feb 15/2024		203	Oct 15/2024		512	Oct 15/2024	
211	Feb 15/2024		204	Oct 15/2024		513	Oct 15/2024	
212	Jun 15/2024		205	Oct 15/2024		514	Oct 15/2024	
213	Feb 15/2024		206	Oct 15/2022		515	Oct 15/2024	
214	Feb 15/2024		207	Oct 15/2022		516	BLANK	
215	Feb 15/2024		208	Oct 15/2024				
216	Feb 15/2022		209	Oct 15/2024		38-33-01		
217	Feb 15/2022		210	Oct 15/2024		401	Feb 15/2024	
218	Jun 15/2024		211	Oct 15/2024		402	Feb 15/2024	
219	Feb 15/2022		212	Oct 15/2024		403	Feb 15/2024	
220	Feb 15/2022		213	Oct 15/2024		404	Feb 15/2024	
38-32-08			214	BLANK		405	Feb 15/2024	
401	Oct 15/2017		38-32-12			406	Feb 15/2024	
402	Oct 15/2024		401	Feb 15/2024		407	Feb 15/2024	
403	Jun 15/2021		402	Jun 15/2024		408	Feb 15/2024	
404	Oct 15/2017		403	Feb 15/2024				
405	Oct 15/2015		404	Jun 15/2024		38-33-01		
406	Oct 15/2015		405	Feb 15/2024		701	Jun 15/2024	
			406	BLANK		702	Feb 15/2024	

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401	Feb 15/2024		403	Oct 15/2024		401	Oct 15/2024	
402	Feb 15/2024		404	Oct 15/2024		402	Oct 15/2024	
403	Feb 15/2024		405	Oct 15/2024		403	Oct 15/2024	
404	Feb 15/2024		406	BLANK		404	Oct 15/2024	
405	Feb 15/2024		38-42-00			405	Oct 15/2022	
406	Feb 15/2024		201	Feb 15/2024		406	Oct 15/2024	
407	Oct 15/2024		202	Oct 15/2024		407	Oct 15/2024	
408	Feb 15/2024		203	Feb 15/2024		408	Oct 15/2024	
409	Feb 15/2024		204	Feb 15/2024		409	Oct 15/2024	
410	BLANK		205	Feb 15/2024		410	BLANK	
38-33-02			206	Oct 15/2024		38-42-06		
701	Feb 15/2024		207	Oct 15/2024		201	Feb 15/2024	
702	BLANK		208	Feb 15/2024		202	Oct 15/2024	
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201	Feb 15/2024		501	Feb 15/2024		204	Oct 15/2024	
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402	Oct 15/2024		406	Oct 15/2024		O 205	Feb 15/2025	
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404	Oct 15/2024		408	BLANK		207	Feb 15/2024	
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401	Oct 15/2024		401	Feb 15/2024		209	Feb 15/2024	
402	Oct 15/2024		402	Oct 15/2024		210	Feb 15/2024	
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404	Oct 15/2024		404	Oct 15/2024		212	BLANK	
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410	BLANK							
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R 410	Feb 15/2025							
R 411	Feb 15/2025							
412	BLANK							

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DDG MAINTENANCE PROCEDURE

1. General

- A. This procedure has the maintenance tasks that are necessary to prepare and restore the airplane as shown in the Master Minimum Equipment List (MMEL).
- B. This procedure has the tasks that follow.
 - (1) DDG 38-01A - Preparation - Potable Water Systems - Components Deactivated or Isolated
 - (2) DDG 38-01A - Restoration - Potable Water Systems - Components Deactivated or Isolated
 - (3) DDG 38-01B - Preparation - Potable Water Systems - Drained
 - (4) DDG 38-01B - Restoration - Potable Water Systems - Drained
 - (5) DDG 38-02A - Preparation - Lavatory Waste Systems - Components Deactivated or Isolated
 - (6) DDG 38-02A - Restoration - Lavatory Waste Systems - Components Deactivated or Isolated
 - (7) DDG 38-02B - Preparation - Lavatory Waste Systems - Not Used
 - (8) DDG 38-02B - Restoration - Lavatory Waste Systems- Not Used
 - (9) DDG 38-02-01 - Preparation - Vacuum Blower - Deactivated
 - (10) DDG 38-02-01 - Restoration - Vacuum Blower - Deactivated

TASK 38-00-00-040-801

2. DDG 38-01A - Preparation - Potable Water Systems - Components Deactivated or Isolated

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). This task prepares the airplane for flight with the potable water systems components deactivated.

B. Location Zones

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

C. Procedure

SUBTASK 38-00-00-040-001

- (1) Deactivate or isolate inoperative components.

NOTE: Due to the wide variety of galley, lavatory, and drinking fountain installations and various component failure possibilities, operators must develop procedures tailored to their specific installations.

SUBTASK 38-00-00-210-001

- (2) Verify that the associated system components do not have any leaks.

———— END OF TASK ————

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TASK 38-00-00-440-801

3. DDG 38-01A - Restoration - Potable Water Systems - Components Deactivated or Isolated

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). This task puts the airplane back to its usual condition after operation with the potable water systems components deactivated.

B. Location Zones

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

C. Procedure

SUBTASK 38-00-00-440-001

- (1) Reactivate applicable water system components.

NOTE: Due to the wide variety of galley, lavatory, and drinking fountain installations and various component failure possibilities, operators must develop procedures tailored to their specific installations.

———— END OF TASK ————

TASK 38-00-00-680-801

4. DDG 38-01B - Preparation - Potable Water Systems - Drained

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). This task prepares the airplane for flight with the potable water systems drained.

B. References

Reference	Title
12-14-01-600-801	Potable Water System - Drain (P/B 301)

C. Location Zones

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

D. Procedure

SUBTASK 38-00-00-680-001

- (1) Drain the potable water system. Do this task: (Potable Water System - Drain, TASK 12-14-01-600-801)

SUBTASK 38-00-00-800-001

- (2) Establish procedures to ensure the potable water system is not serviced.

———— END OF TASK ————

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TASK 38-00-00-610-801

5. DDG 38-01B - Restoration - Potable Water Systems - Drained

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). This task puts the airplane back to its usual condition after operation with the potable water systems drained.

B. References

Reference	Title
12-14-01-600-802	Potable Water Tank - Fill (P/B 301)

C. Location Zones

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

D. Procedure

SUBTASK 38-00-00-610-001

- (1) Refill the potable water system. Potable Water Tank - Fill, TASK 12-14-01-600-802

———— END OF TASK ————

TASK 38-00-00-040-802

6. DDG 38-02A - Preparation - Lavatory Waste Systems - Components Deactivated or Isolated

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). This task prepares the airplane for flight with the lavatory waste systems components deactivated or isolated.

B. Location Zones

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

C. Procedure

SUBTASK 38-00-00-040-002

- (1) Deactivate or isolate inoperative components. Verify associated system components do not have leaks.
NOTE: Due to the wide variety of lavatory installations and various component failure possibilities, operators must develop procedures tailored to their specific installations.
- (2) Verify associated system components do not have leaks.

———— END OF TASK ————

EFFECTIVITY
LOM ALL

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TASK 38-00-00-440-802

7. DDG 38-02A - Restoration - Lavatory Waste Systems - Components Deactivated or Isolated

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). This task puts the airplane back to its usual condition after operation with the lavatory waste systems components deactivated or isolated.

B. Location Zones

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

C. Procedure

SUBTASK 38-00-00-440-002

- (1) Reactivate applicable lavatory system components.

NOTE: Due to the wide variety of lavatory installations and various component failure possibilities, operators must develop procedures tailored to their specific installations.

———— END OF TASK ————

TASK 38-00-00-040-803

8. DDG 38-02B - Preparation - Lavatory Waste Systems - Not Used

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). This task prepares the airplane for flight with the lavatory waste systems not used.

B. Location Zones

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

C. Procedure

SUBTASK 38-00-00-040-003

- (1) Deactivate or isolate inoperative components. Verify associated system components do not have leaks.

NOTE: Due to the wide variety of lavatory installations and various component failure possibilities, operators must develop procedures tailored to their specific installations.

- (2) Verify associated system components do not have leaks.

———— END OF TASK ————

TASK 38-00-00-440-803

9. DDG 38-02B - Restoration - Lavatory Waste Systems - Not Used

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). This task puts the airplane back to its usual condition after operation with the lavatory not used.

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B. Location Zones

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

C. Procedure

SUBTASK 38-00-00-440-003

- (1) Reactivate applicable lavatory system components.

NOTE: Due to the wide variety of lavatory installations and various component failure possibilities, operators must develop procedures tailored to their specific installations.

———— END OF TASK ————

TASK 38-00-00-040-804

10. DDG 38-02-01 - Preparation - Vacuum Blower - Deactivated

(Figure 901)

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). This task prepares the airplane for flight with the vacuum blower deactivated.

B. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left

C. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

D. Vacuum Blower Deactivation

SUBTASK 38-00-00-040-004

- (1) Deactivate the vacuum blower, do these steps:

- (a) To get access to the P91 panel, open this access panel:

Number Name/Location

117A Electronic Equipment Access Door



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.

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(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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	2	C01389	VACUUM WASTE BLOWER

- (c) Close this access panel:

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

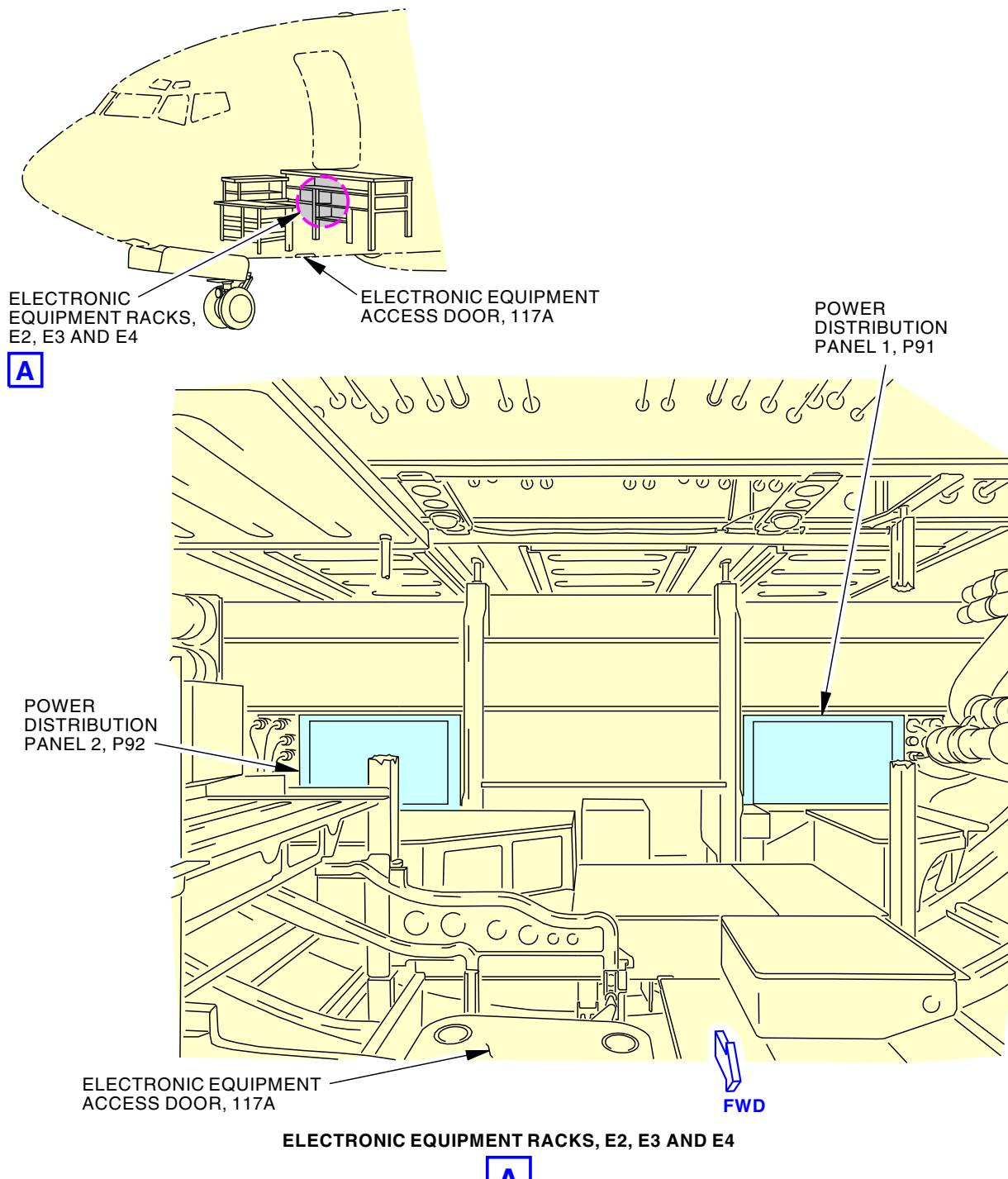
———— END OF TASK ————

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2360795 S0000539765_V2

Electrical Control Panels P91, P92
Figure 901/38-00-00-990-801

EFFECTIVITY
LOM ALL

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D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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TASK 38-00-00-440-804

11. **DDG 38-02-01 - Restoration - Vacuum Blower - Deactivated**

(Figure 901)

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). This task puts the airplane back to its usual condition after operation with the vacuum blower deactivated.

B. Location Zones

<u>Zone</u>	<u>Area</u>
117	Electrical and Electronics Compartment - Left

C. Access Panels

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

D. Vacuum Blower Restoration

SUBTASK 38-00-00-440-004

- (1) Reactivate the vacuum blower, do these steps:

- (a) To get access to the P91 panel, open this access panel:

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



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.



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.

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

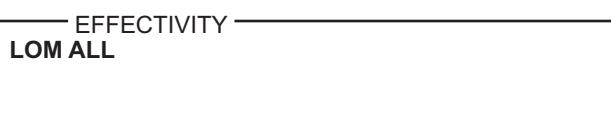
Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	2	C01389	VACUUM WASTE BLOWER

- (c) Close this access panel:

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

— END OF TASK —



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POTABLE WATER SYSTEM - MAINTENANCE PRACTICES

1. General

- A. This procedure has these tasks:
 - (1) Clean the potable water system with a disinfectant.
 - (2) A test for leakage of the potable water system.
- B. It is necessary to flush and then use a disinfectant in the water system when you have these conditions:
 - (1) Contamination in the water system
 - (2) After repairs on the water system

TASK 38-10-00-600-801

2. Potable Water System - Disinfectant

NOTE: This procedure is a scheduled maintenance task.

A. General

The intent of this task is to provide a solution of disinfectant to the potable water system that achieves a concentration of 100 Parts Per Million (PPM). When preparing the disinfectant solution, the stabilized chlorine dioxide (Purogene) and the citric acid are both measured by volume (fluid ounces or liters).

As an alternate to chemical disinfection, the potable water system may be disinfected by any ozone disinfection process that provides an ozone concentration of up to 3.5 PPM. The ozone disinfection must be conducted per the ozone equipment/cart supplier's instructions. Long term exposure to ozone may result in the degradation of elastomeric components (O-rings) in the potable water system.

B. References

Reference	Title
12-14-01-600-801	Potable Water System - Drain (P/B 301)
12-14-01-600-802	Potable Water Tank - Fill (P/B 301)
25-31-10-960-801	Galley Water Filter Replacement (P/B 201)
38-11-04-960-801	Water Filter Replacement (P/B 401)
38-42-00-800-801	Potable Water System - Deactivation (P/B 201)
38-42-00-800-802	Potable Water System - 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.

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Reference	Description
COM-1141	Equipment - Potable Water Servicing Part #: 19-4301-0000 Supplier: 59603 Part #: 19-4303-0000 Supplier: 59603 Part #: 2198-310 Supplier: 6L481 Part #: CPW-100 Supplier: 32526 Part #: CPW-100-1 Supplier: 32526 Part #: CPW-100-2 Supplier: 32526 Part #: PW100 Supplier: 1CSJ2 Part #: SPW-350 Supplier: 32526 Part #: SPW-500PL Supplier: 32526 Part #: WC100E (ID 2026505) Supplier: 0T652 Part #: WSP-900 Supplier: 6L481 Part #: WTM-900 Supplier: 6L481 Opt Part #: 2303 Supplier: 00365 Opt Part #: SPW-250 Supplier: 32526
STD-197	Container - Plastic, Polyethylene or Polypropylene
STD-739	Respirator - Half-Mask, Air Purifying (with filters/cartridges)

D. Consumable Materials

Reference	Description	Specification
B00637	Acid, Citric	A-A-59147
B01033	Cleaner - Disinfectant - Lysol	
B50246	Cleaner - Glyco-San Potable Water System Cleaner	AMS 1550B
G00022	Compound - Chlorine Dioxide For Water Purification - Purogene or Oxine	
G50140	Gloves - Protective, Latex or Nitrile	
G50318	Metallic Wool - Steel	

E. Location Zones

Zone	Area
146	Aft Cargo Compartment Equipment Bay - Right

F. Access Panels

Number	Name/Location
146AR	Water Service Door

G. Prepare to Disinfectant the Potable Water System.

SUBTASK 38-10-00-680-001

 WARNING	DRAIN, OR USE THE POTABLE WATER SYSTEM A MINIMUM OF ONE TIME EACH THREE DAYS. IF YOU DO NOT DRAIN, OR USE THE WATER SYSTEM FREQUENTLY, BACTERIA CAN GROW IN THE WATER. IF YOU DRINK WATER WITH BACTERIA IN IT, ILLNESS CAN OCCUR.
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- (1) Do this task: Potable Water System - Drain, TASK 12-14-01-600-801.

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LOM 437, 438, 463

SUBTASK 38-10-00-020-001



CAUTION

MAKE SURE THE CLAMP BOLT ON THE WATER FILTER IS IN A POSITION TO LET YOU CLOSE THE CABINET DOOR. IF THE CLAMP BOLT IS IN AN INCORRECT POSITION, THE CABINET DOOR WILL NOT CLOSE.

- (2) If installed, remove and discard the filter canisters from the water system in the lavatories (TASK 38-11-04-960-801).
(a) Make sure that the top of the housing is in its position without the filter canister installed.

LOM ALL

SUBTASK 38-10-00-020-003

- (3) Disconnect all the water lines for the galley inserts (steam ovens, water boilers, coffee makers) if installed, from the water system in the galleys.

SUBTASK 38-10-00-020-002

- (4) If installed, remove and discard the filter canisters from the water system in the galleys (TASK 25-31-10-960-801).
(a) Make sure that the top of the housing is in its position without the filter canister installed.

H. Disinfect the Potable Water System.

SUBTASK 38-10-00-610-001

- (1) To fill the potable water system approximately half full with water, do this task: Potable Water Tank - Fill, TASK 12-14-01-600-802.

NOTE: The filter cartridge must not be installed in the water service equipment.

SUBTASK 38-10-00-670-001

- (2) Make the disinfectant solution as follows:

NOTE: This disinfectant mixture will supply a solution that is 100 parts of chlorine dioxide for each one million parts of water. This mixture is calculated on the total water tank(s) capacity plus a quantity for waterlines.

- (a) Purogene or Oxine compound, G00022 (stabilized 2%), and citric acid, B00637 (crystals or powder) (recommended disinfectant).

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WARNING

DO NOT BREATHE CHLORINE DIOXIDE GAS. PUT ON A RESPIRATOR, AND GOGGLES. WHEN THE TWO CHEMICALS MIX, THEY MAKE CHLORINE DIOXIDE GAS. CHLORINE DIOXIDE GAS CAN CAUSE INJURIES TO PERSONNEL IF THEY BREATHE IT.

- 1) Mix the following amounts of Purogene or Oxine compound, G00022, with citric acid, B00637, in a clean plastic container, STD-197 (2 or 3 US gallon).

NOTE: All measurements are volume measurements, and based on 22 gal (83 l) tank + 3 gal (11 l). To determine the actual amounts of each solution component, use a scaling factor. The scaling factor can be calculated by dividing your total tank capacity by 25. The quantity of each solution component you require can be calculated by multiplying the individual amounts of each solution component with the scaling factor.

NOTE: Each gallon of tank capacity requires 0.64 fl-oz (19 ml) of Purogene or Oxine compound, G00022, activated by 0.08 fl-oz (2.37 ml) of citric acid, B00637 (crystals or powder).

NOTE: When you mix the Purogene solution, use sufficient airflow. You can use protective gloves, G50140, and a half-mask respirator, STD-739.

- a) 16 fl-oz (473 ml) chlorine dioxide.
- b) 2 fl-oz (59.15 ml) citric acid crystals or powder, or 3.25 fl-oz (96.11 ml) citric acid liquid (50% solution).
- (b) Use a clean instrument to mix the solution fully.
- (c) Stop for 15 to 30 minutes.
- (d) Add water to make approximately 5 gal (19 l) of solution.

SUBTASK 38-10-00-010-001

- (3) Open this access panel:

<u>Number</u>	<u>Name/Location</u>
146AR	Water Service Door

SUBTASK 38-10-00-670-002

- (4) Add the disinfectant to the water service potable water servicing equipment, COM-1141, for the potable water system.

SUBTASK 38-10-00-670-003

- (5) Add the disinfectant to the potable water system through the water fill connection at the water service panel.

SUBTASK 38-10-00-610-002

- (6) To add water to the potable water system until the water tank is full, do this task: Potable Water Tank - Fill, TASK 12-14-01-600-802.

SUBTASK 38-10-00-860-001

- (7) Do this task: Potable Water System - Activation, TASK 38-42-00-800-802.

SUBTASK 38-10-00-860-002

- (8) Open each of the lavatory faucets (hot and cold), the galley faucet(s), and purge each galley insert water supply line (at the rail or quick-disconnect) in the potable water system.

NOTE: Let the water flow until you smell flow of the disinfectant solution from each faucet. The disinfectant may also be noticeable by its slight yellow color.

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SUBTASK 38-10-00-860-003

- (9) After the disinfectant flows from the faucet, close the faucet.

SUBTASK 38-10-00-160-001

- (10) Clean and disinfect the aerator assembly as follows:

NOTE: These steps are necessary only if the aerator assembly is installed.

NOTE: Optional to remove and install the new aerator assembly. Refer to applicable vendor Component Maintenance Manual (CMM).

- (a) Plug the sink (as necessary).
- (b) Remove the aerator assembly from the faucet assembly.
- (c) Soak the aerator assembly in Lysol cleaner, B01033, or Glyco-San potable water system cleaner, B50246, for 30 minutes.
- (d) Scrub the aerator assembly with steel wool, G50318, or equivalent.
- (e) Flush the aerator assembly with clean water.
- (f) Install the aerator assembly to the faucet assembly.
- (g) Unplug the sink (as necessary).

SUBTASK 38-10-00-170-001

- (11) Flush each toilet at least twice with a 15 second delay between flushes or until water with disinfectant appears.

SUBTASK 38-10-00-860-034

- (12) To fill the remainder of the potable water system with water until it is full, do this task: Potable Water Tank - Fill, TASK 12-14-01-600-802.

SUBTASK 38-10-00-670-004



WARNING

KEEP THE DISINFECTANT IN THE WATER FOR A MINIMUM OF ONE HOUR. LESS TIME WILL NOT KILL ALL OF THE BACTERIA. BACTERIA CAN CAUSE ILLNESS.

- (13) Keep the disinfectant in the potable water between one and two hours.

SUBTASK 38-10-00-680-002



CAUTION

DO NOT KEEP THE DISINFECTANT IN THE SYSTEM LONGER THAN TWO HOURS. CORROSION CAN OCCUR AFTER TWO HOURS AND CAUSE DAMAGE TO THE SYSTEM.

- (14) Drain the potable water system (TASK 12-14-01-600-801).

SUBTASK 38-10-00-680-003

- (15) Open each of the lavatory and galley faucets and purge each galley insert water supply line (at the rail or quick-disconnect) to drain the water in the lavatory and galley supply lines.

I. Flush the Potable Water System with Potable Water.

SUBTASK 38-10-00-860-004

- (1) Do this task: Potable Water Tank - Fill, TASK 12-14-01-600-802.

SUBTASK 38-10-00-860-005

- (2) Do this task: Potable Water System - Activation, TASK 38-42-00-800-802.

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SUBTASK 38-10-00-860-006

- (3) Open each of the lavatory faucets, galley faucets, and purge each galley insert water supply line (at the rail or quick-disconnect) until water without the disinfectant flows through each for 1 minute.

SUBTASK 38-10-00-170-002

- (4) Flush each toilet at least twice with a 15 second delay between flushes or until water without the disinfectant appears.

SUBTASK 38-10-00-680-004

- (5) If there is an unpleasant smell, color or black carbon particles then do the following steps:
 - (a) Do this task: Potable Water System - Drain, TASK 12-14-01-600-801.
 - (b) Do the Flush the Potable Water System with Potable Water procedure again, do this task: Potable Water Tank - Fill, TASK 12-14-01-600-802.

J. Put the Airplane Back to Its Usual Condition

SUBTASK 38-10-00-860-007

- (1) Do this task: Potable Water System - Deactivation, TASK 38-42-00-800-801.

LOM 437, 438, 463

SUBTASK 38-10-00-420-001



CAUTION MAKE SURE THE CLAMP BOLT ON THE WATER FILTER IS IN A POSITION TO LET YOU CLOSE THE CABINET DOOR. IF THE CLAMP BOLT IS IN AN INCORRECT POSITION, THE CABINET DOOR WILL NOT CLOSE.

- (2) If removed, install new filter canisters in the water filters for the lavatories (TASK 38-11-04-960-801).

LOM ALL

SUBTASK 38-10-00-420-002

- (3) If removed, install new filter canisters in the water filters for the galleys (TASK 25-31-10-960-801).

SUBTASK 38-10-00-420-004

- (4) Reconnect all the water lines of the galley inserts (coffee makers, steam ovens and water boilers) if installed, to the water system in the galleys.

SUBTASK 38-10-00-860-032

- (5) If it is necessary, do this task: Potable Water Tank - Fill, TASK 12-14-01-600-802.

SUBTASK 38-10-00-860-035

- (6) Do this task: Potable Water System - Activation, TASK 38-42-00-800-802.

SUBTASK 38-10-00-700-002

- (7) Check filter canisters, steam ovens and water boilers (if installed) and coffee maker connections (if installed) for leaks.

— END OF TASK —

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TASK 38-10-00-790-801

3. Potable Water System - Leak Test

(Figure 201, Figure 202)

A. General

- (1) Use this procedure to make sure the potable water system does not have a leak.

B. References

Reference	Title
12-14-01-600-802	Potable Water Tank - Fill (P/B 301)
25-52-09-000-801	Cargo Compartment Ceiling Liner - Removal (P/B 401)
25-52-09-400-801	Cargo Compartment Ceiling Liner - Installation (P/B 401)
32-09-00-840-802	Return the Airplane Systems Back to Their Normal On Ground Condition (P/B 201)
32-09-00-860-801	Put the Airplane in the Air Mode (P/B 201)
38-31-00-990-801	Figure: Waste Water System - Maintenance Practice (P/B 201)
38-42-00-800-801	Potable Water System - Deactivation (P/B 201)
38-42-00-800-802	Potable Water System - 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-1951	Drain Mast Plug - Waste Water Part #: C38001-29 Supplier: 81205 Opt Part #: C38001-23 Supplier: 81205
STD-77	Air Source, Regulated - Dry Filtered, 0-50 psig
STD-1091	Gauge - Air Pressure, 0-100 PSIG (0-690 KPa)

D. Location Zones

Zone	Area
146	Aft Cargo Compartment Equipment Bay - Right
200	Upper Half of Fuselage

E. Access Panels

Number	Name/Location
822	Aft Cargo Door

F. Potable Water System - Leakage Test

SUBTASK 38-10-00-010-002

- (1) Open this access panel:

Number	Name/Location
822	Aft Cargo Door

SUBTASK 38-10-00-020-004

- (2) Do this task: Cargo Compartment Ceiling Liner - Removal, TASK 25-52-09-000-801.

SUBTASK 38-10-00-020-005

- (3) Remove the plug from the pressure test equipment connection tee fitting in the potable water line.

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SUBTASK 38-10-00-480-001

- (4) Install the pressure gauge (0-100 PSIG) (0-690 kPa), STD-1091, in the pressure test equipment connection tee fitting of the potable water line.

SUBTASK 38-10-00-610-003

- (5) Do this task: Potable Water Tank - Fill, TASK 12-14-01-600-802.

SUBTASK 38-10-00-480-002

- (6) Install a regulated air source, STD-77, in the pressure test equipment connection tee fitting of the potable water line to pressurize the potable water system to 50 psig (345 kPa).

SUBTASK 38-10-00-860-010

- (7) Pressurize the potable water system to 50 psig (345 kPa).

SUBTASK 38-10-00-860-011

- (8) Open the faucets in each lavatory and galley and let the water flow for 2 minutes.

NOTE: Keep the pressure at 50 psig (345 kPa) (in the potable water system).

SUBTASK 38-10-00-860-012

- (9) Close all the water faucets.

SUBTASK 38-10-00-860-013

- (10) Keep the pressure at 50 psig (345 kPa) for at least 5 minutes.

SUBTASK 38-10-00-790-001

- (11) Make sure that there are no air or water leaks in these locations:

- At the water tank.
- At the water fill connection, on the water service panel.
- At the water drain connections, on the airplane skin.
- In the water tubes and hoses that supply water to the lavatories and galleys.

SUBTASK 38-10-00-860-014

- (12) Do this task: Potable Water System - Deactivation, TASK 38-42-00-800-801.

SUBTASK 38-10-00-080-001

- (13) Remove the pressure gage from the potable water line.

SUBTASK 38-10-00-420-003

- (14) Install the cap on the potable water line.

SUBTASK 38-10-00-860-015

- (15) Do this task: Potable Water System - Activation, TASK 38-42-00-800-802.

LOM 404, 407, 411, 412, 415, 416, 420, 422-431, 433, 434, 437-447, 450-999

G. Forward Gray Water System - Leakage Test

SUBTASK 38-10-00-480-003

- (1) Install the waste water drain mast plug, SPL-1951, to seal the forward drain mast.

SUBTASK 38-10-00-860-016

- (2) Put water in the most forward galley or the lavatory sink until the drain line is full of water, refer to Figure 38-31-00-990-801 for location of most forward sink.

NOTE: The drain line is full of water when water stays in the sink for five minutes.

NOTE: When the airplane is nose down, it is important to use the most forward sink to prevent possible backflows or spills from a more forward sink.

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LOM 404, 407, 411, 412, 415, 416, 420, 422-431, 433, 434, 437-447, 450-999 (Continued)

SUBTASK 38-10-00-790-002

- (3) Make sure that the drain lines connected to the forward drain mast have no leaks.

SUBTASK 38-10-00-080-002

- (4) Remove the waste water drain mast plug, SPL-1951, from the forward drain mast to let the water drain.

LOM 402, 406, 432

H. Forward Gray Water System - Leakage Test

SUBTASK 38-10-00-480-005

- (1) Install the waste water drain mast plug, SPL-1951, to seal the forward drain mast.

SUBTASK 38-10-00-480-006

- (2) Put a cap on the line to the fitting for the forward sill drain from the bladder assembly.

SUBTASK 38-10-00-480-008

- (3) Install a plug on the floor drain lines.

SUBTASK 38-10-00-860-018

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

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
E	19	C01462	GREY WATER DRAIN VALVE

SUBTASK 38-10-00-860-019

- (5) Put water in the sink in the forward lavatory until the drain line is full of water.

NOTE: The drain line is full of water when water stays in the sink for five minutes. This will do a test of the drain lines to the drain mast with the motorized drain valve in the closed position.

SUBTASK 38-10-00-790-004

- (6) After a stop of 5 minutes, make sure that the lines connected to the forward drain mast have no leaks.

SUBTASK 38-10-00-860-020



WARNING

OBEY THE PROCEDURE THAT PREPARES TO PUT THE AIRPLANE IN THE AIR MODE. IN THE AIR MODE, MANY OF THE AIRPLANE SYSTEMS CAN OPERATE. THIS CAN CAUSE INJURIES TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (7) To simulate the airplane in air mode, do these steps:

- (a) Do this task: Put the Airplane in the Air Mode, TASK 32-09-00-860-801.

SUBTASK 38-10-00-860-021

- (8) Close this circuit breaker:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
E	19	C01462	GREY WATER DRAIN VALVE

EFFECTIVITY
LOM ALL

38-10-00



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LOM 402, 406, 432 (Continued)

SUBTASK 38-10-00-710-001

- (9) Make sure that water comes from the skin fitting for the forward bladder outlet.

NOTE: This will permit the water to drain from the sink to the forward drain valve above the bladder assembly.

SUBTASK 38-10-00-480-007

- (10) Install a plug in the skin fitting to seal the forward bladder outlet for the sill drain.

SUBTASK 38-10-00-860-022

- (11) Put water in the sink in the forward lavatory until the drain line is full of water.

NOTE: The drain line is full of water when water stays in the sink for five minutes.

SUBTASK 38-10-00-790-005

- (12) After a stop of 5 minutes, make sure that the lines connected to the forward drain mast have no leaks.

SUBTASK 38-10-00-860-023

- (13) Do this task: Return the Airplane Systems Back to Their Normal On Ground Condition,
TASK 32-09-00-840-802.

SUBTASK 38-10-00-080-004

- (14) Remove the waste water drain mast plug, SPL-1951, from the forward drain mast to let the water drain.

SUBTASK 38-10-00-080-005

- (15) Remove the plug from the skin fitting for the forward bladder outlet.

SUBTASK 38-10-00-080-006

- (16) Remove the cap from the line to the fitting for the forward sill drain from the bladder assembly.

LOM ALL

I. Aft Gray Water System - Leakage Test

SUBTASK 38-10-00-480-004

- (1) Install the waste water drain mast plug, SPL-1951, to seal the aft drain mast.

SUBTASK 38-10-00-860-017

- (2) Put water in the most forward galley or lavatory sink in the aft waste water system until the drain line is full of water Refer to Figure 38-31-00-990-801 for location of most forward sink.

NOTE: The drain line is full of water when water stays in the sink for five minutes.

NOTE: When the airplane is nose down, it is important to use the most forward sink to prevent possible backflows or spills from a more forward sink.

NOTE: Water may leak from the drain vent.

SUBTASK 38-10-00-790-003

- (3) Make sure that the drain lines connected to the aft drain mast have no leaks.

SUBTASK 38-10-00-080-003

- (4) Remove the waste water drain mast plug, SPL-1951, from the aft drain mast to let the water drain.

EFFECTIVITY
LOM ALL

38-10-00



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J. Put the Airplane Back to Its Usual Condition

SUBTASK 38-10-00-410-002



WARNING

MAKE SURE THAT YOU OBEY ALL THE INSTRUCTIONS IN THE PROCEDURE TO INSTALL THE CARGO LINING. INCORRECT INSTALLATION OF THE CARGO LINING CAN LEAD TO FIRE EXTINGUISHING AGENT OR SMOKE TO LEAK OUT OF THE CARGO COMPARTMENT DURING A FIRE. THIS CAN CAUSE INJURIES TO PERSONS AND DAMAGE TO EQUIPMENT.

- (1) Do this task: Cargo Compartment Ceiling Liner - Installation, TASK 25-52-09-400-801.

SUBTASK 38-10-00-410-003

- (2) Close this access panel:

<u>Number</u>	<u>Name/Location</u>
822	Aft Cargo Door

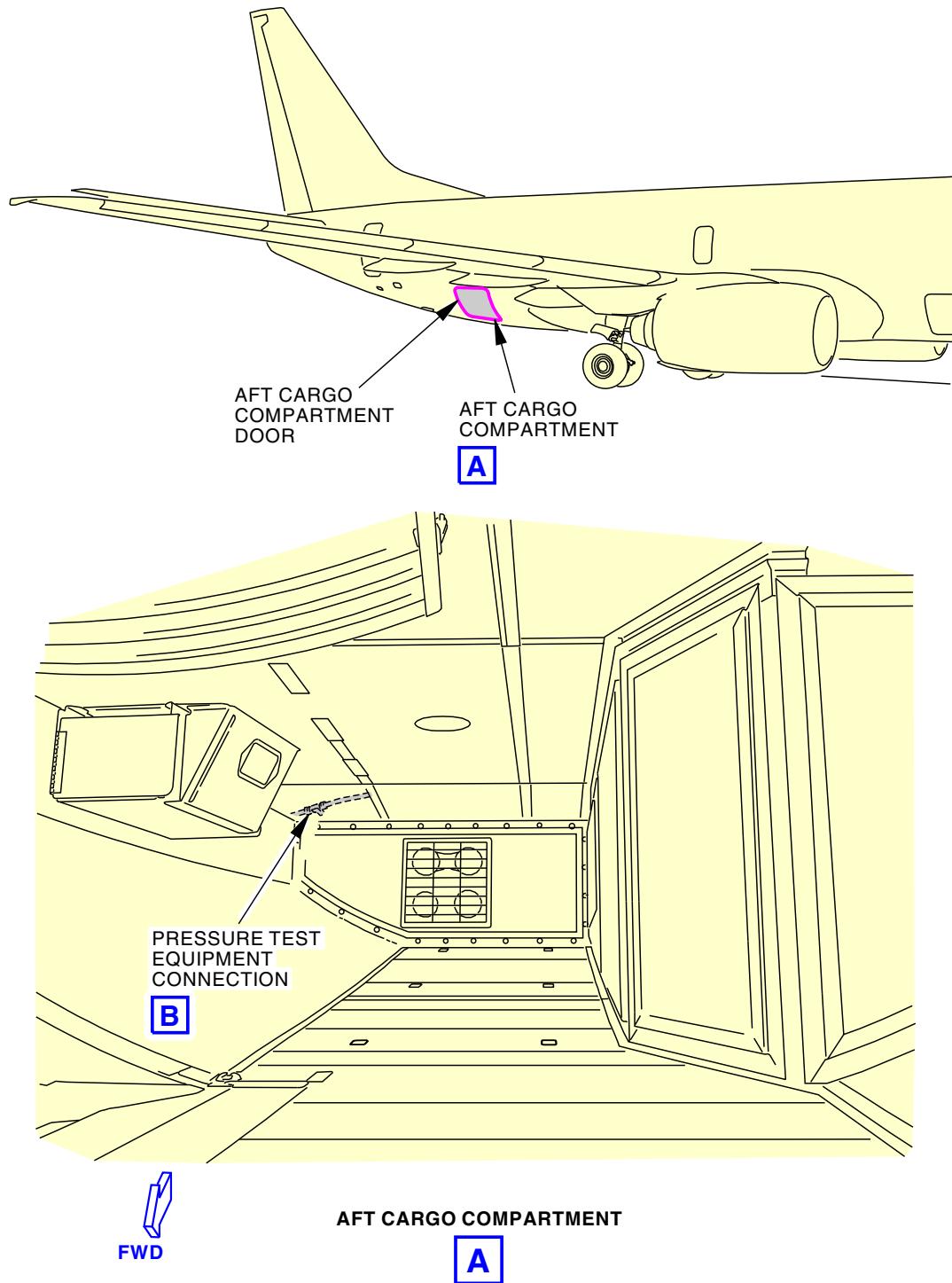
———— END OF TASK ————

EFFECTIVITY
LOM ALL

38-10-00



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G20469 S0006578127_V2

Potable Water System Leak Test
Figure 201/38-10-00-990-801 (Sheet 1 of 2)

EFFECTIVITY
LOM ALL

38-10-00

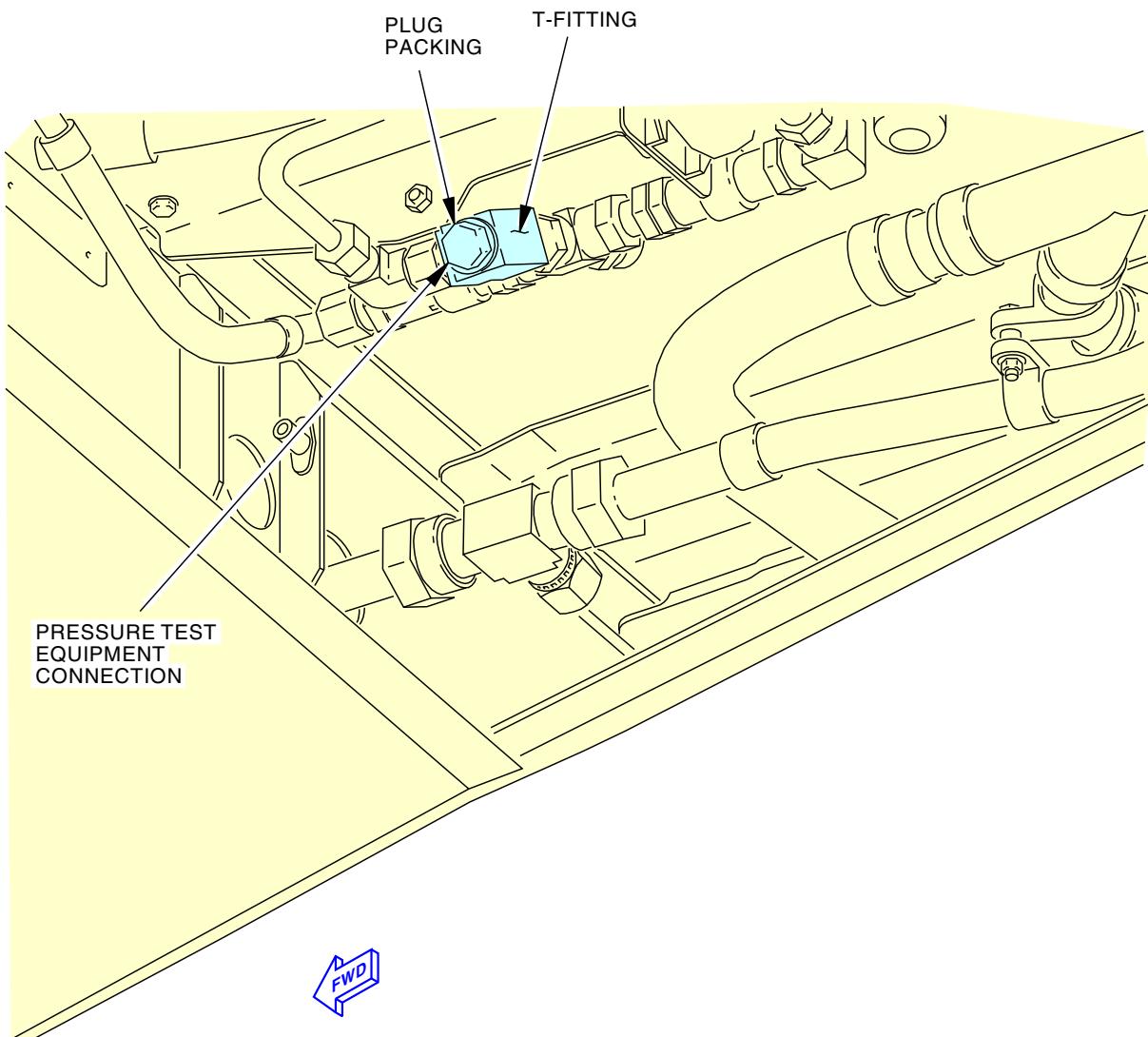
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PRESSURE TEST EQUIPMENT CONNECTION

B

G20475 S0006578129_V2

Potable Water System Leak Test
Figure 201/38-10-00-990-801 (Sheet 2 of 2)

EFFECTIVITY
LOM ALL

38-10-00

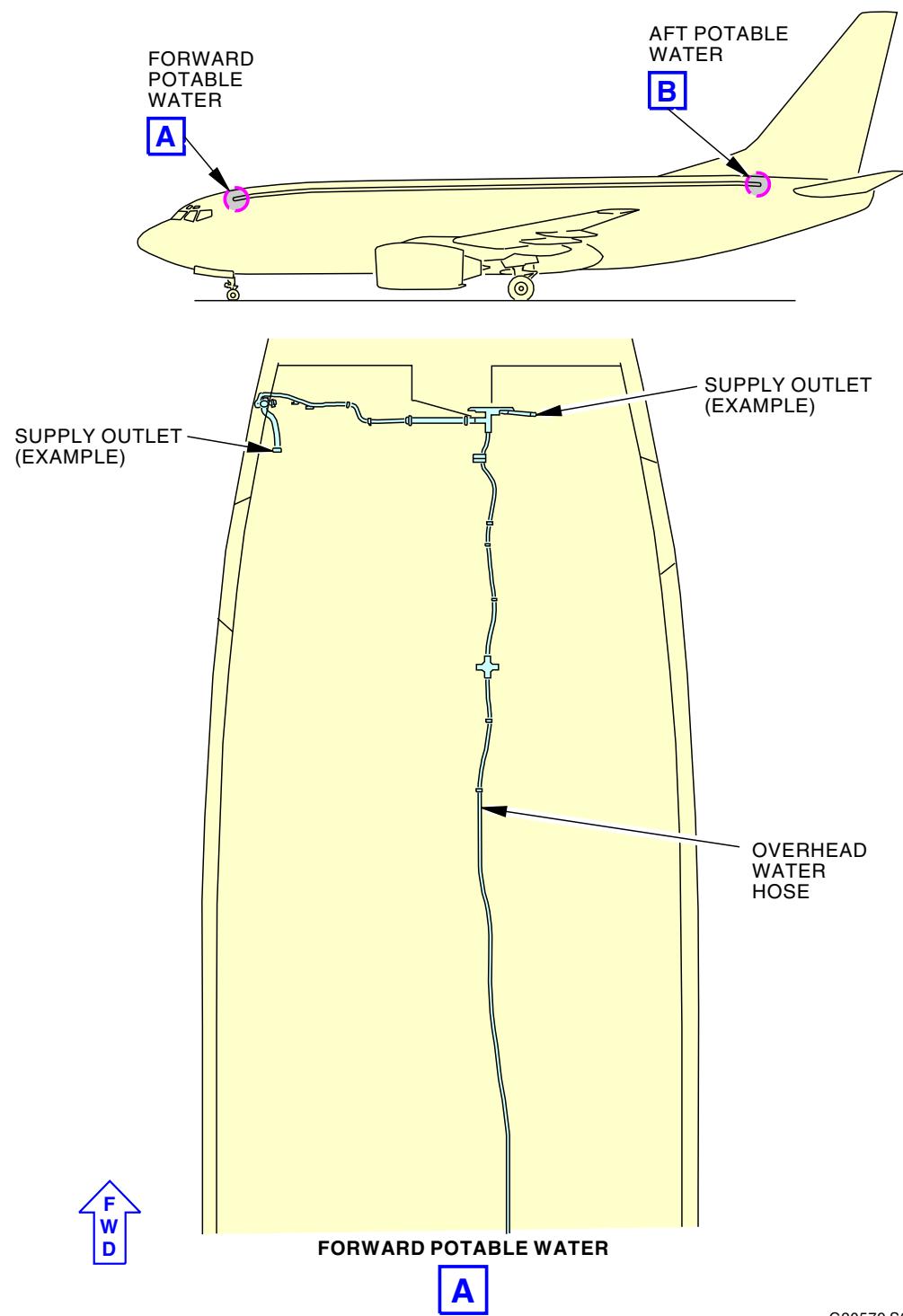
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G20579 S0006578130_V2

Potable Water System - Primary Routing
Figure 202/38-10-00-990-802 (Sheet 1 of 2)

EFFECTIVITY
LOM ALL

38-10-00

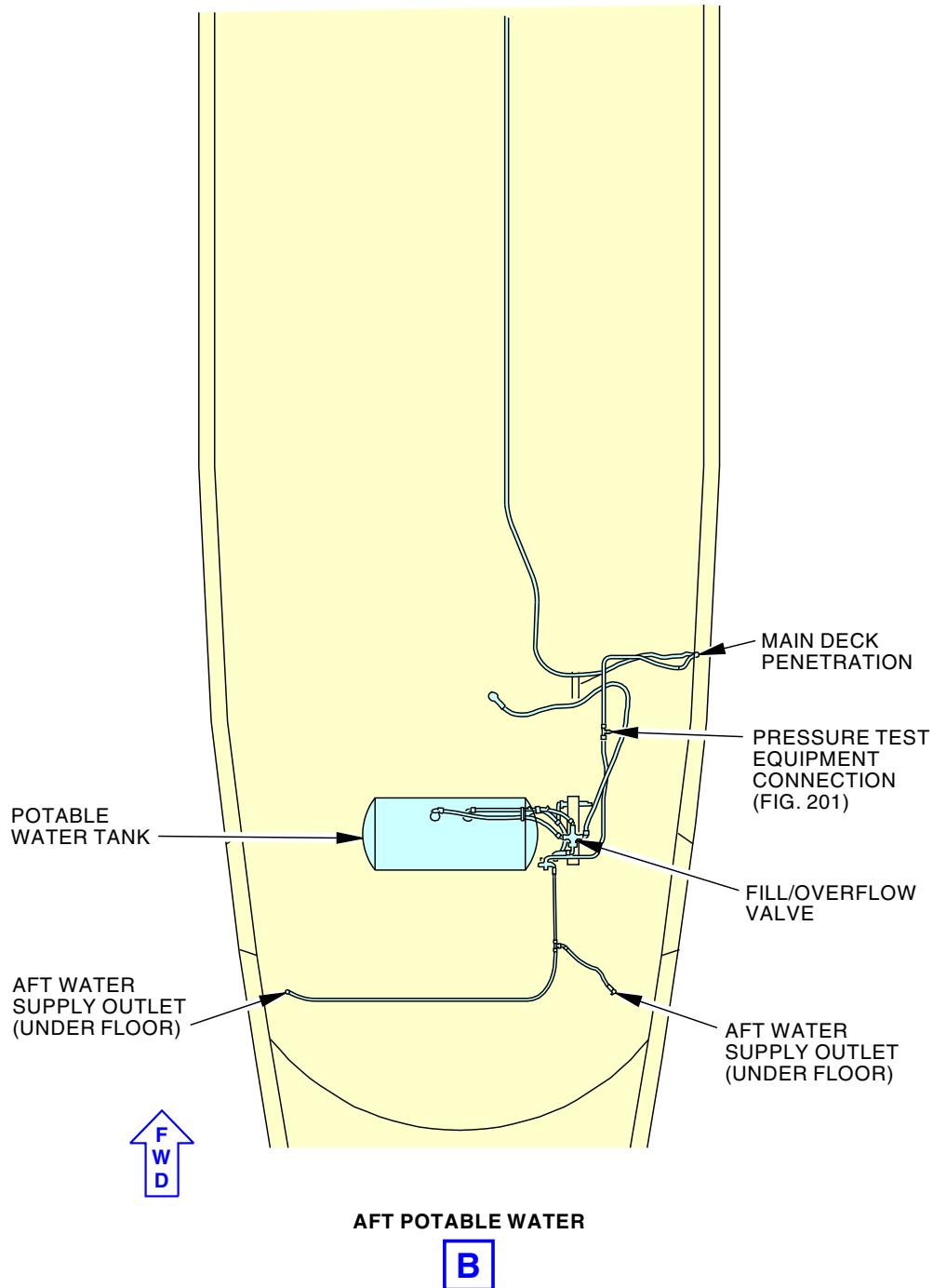
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G20583 S0006578132_V2

Potable Water System - Primary Routing
Figure 202/38-10-00-990-802 (Sheet 2 of 2)

EFFECTIVITY
LOM ALL

D633A101-LOM

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POTABLE WATER SYSTEM - CLEANING MAINTENANCE PRACTICES

1. General

- A. This procedure has these tasks:
- (1) Manually clean the potable water tank.

TASK 38-10-00-100-801

2. Manually Clean the Potable Water Tank

(Figure 701)

A. General

- (1) This procedure is to manual clean the potable water tank.
- (2) This should only be used when the disinfecting procedure is not effective.
- (3) For the normal process for maintenance of the water system is refer to portable water system disinfectant (TASK 38-10-00-600-801).

B. References

Reference	Title
12-14-01-600-801	Potable Water System - Drain (P/B 301)
12-14-01-600-802	Potable Water Tank - Fill (P/B 301)
20-10-44-400-801	Lockwire, Cotter Pins, and Lockrings - Installation (P/B 401)
25-52-19-400-801	Aft Cargo Compartment Aft Bulkhead Liner - Installation (P/B 401)
38-10-00-600-801	Potable Water System - Disinfectant (P/B 201)
38-11-01-000-801	Water Tank Removal (P/B 401)
38-11-01-400-801	Water Tank Installation (P/B 401)
38-42-00-800-801	Potable Water System - Deactivation (P/B 201)
38-42-00-800-802	Potable Water System - Activation (P/B 201)

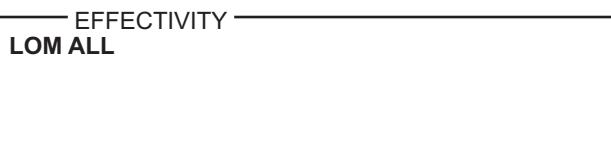
C. Tools/Equipment

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
COM-4911	Rotation Tool - Potable Water Tank End Cap Part #: 2MIT2A264-0812-1 Supplier: 1TGN3 Part #: D78T15348-1 Supplier: 1TGN3
STD-123	Brush - Soft Bristle

D. Consumable Materials

Reference	Description	Specification
A50031	Sealant - Dow Corning 732 Multi-Purpose Sealant	MIL-A-46106
B50026	Soap - Clear Liquid Dishwashing	
D00189	Compound - Molykote 111 (Formerly Dow Corning 111, Valve Sealant and Lubricant)	



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E. Location Zones

Zone	Area
146	Aft Cargo Compartment Equipment Bay - Right

F. Access Panels

Number	Name/Location
822	Aft Cargo Door

G. Prepare to Clean the Water Tank

SUBTASK 38-10-00-840-001

- (1) Do this task: Potable Water System - Drain, TASK 12-14-01-600-801.

SUBTASK 38-10-00-840-002

- (2) To release the pressure from the potable water system, do this task: Potable Water System - Deactivation, TASK 38-42-00-800-801.

SUBTASK 38-10-00-020-006

- (3) Open this access panel:

Number	Name/Location
822	Aft Cargo Door

SUBTASK 38-10-00-020-008

- (4) If it is necessary remove the potable water tank, do this task: Water Tank Removal, TASK 38-11-01-000-801.

SUBTASK 38-10-00-010-005

- (5) Do these steps to gain access to the inside of the water tank:



WARNING DEPRESSURIZE WATER TANK BEFORE OPENING TANK END CAP. IF THE TANK END CAP SNAP RING IS REMOVED PRIOR TO TANK DEPRESSURIZATION, THE TANK END CAP CAN INJURE MAINTENANCE PERSONNEL.

- (a) Remove the insulation on the end of the water tank.
- (b) Remove lockwire (if installed).
- (c) Put the rotation tool, COM-4911, in its position on the end cap(s) and then remove the end cap(s).
- (d) Pull the end caps and O-rings from the tank.
 - 1) Discard the O-rings.

H. Clean the Water Tank

SUBTASK 38-10-00-110-001

- (1) Do these steps to clean the inside of the water tank.
 - (a) Mix 1 gal (4 l) of water and 3 fl-oz (89 ml) of soap, B50026, in a 2 gal (8 l) plastic container.
 - (b) Put the mixture into the water tank.
 - (c) Clean the inside of the tank and covers with long handled, soft bristle brush, STD-123.
 - (d) If the water tank has been removed, manually drain the tank into a 5 gal (19 l) plastic container.
 - (e) If the water tank has not been removed, do this task: Potable Water System - Drain, TASK 12-14-01-600-801

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LOM ALL

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SUBTASK 38-10-00-680-006

- (2) Do these steps to flush the inside of the water tank.
 - (a) Flush the inside of the tank with water.
 - (b) If the water tank has been removed, manually drain the tank into a 5 gal (19 l) plastic container.
 - (c) If the water tank has not been removed, do this task: Potable Water System - Drain, TASK 12-14-01-600-801.
 - (d) Do the step above three times.
 - (e) Wash the tank cover(s) with clean water.

SUBTASK 38-10-00-420-005

- (3) Do these steps to install the cover on the water tank.
 - (a) Clean inside surface of end caps, threads of tank, edge of inner liner, and new O-rings with alcohol and cloth.
 - (b) Apply lubricant Molykote 111 Compound, D00189, to the new O-rings.
 - (c) Install the new O-rings to each end cap.
 - (d) If it is necessary, apply Molykote 111 Compound, D00189, on applicable portion of end caps.
 - (e) If it is necessary, apply Dow Corning 732 multi-purpose sealant, A50031, completely around the edge of inner liner with a disposable syringe.
 - (f) Expose the applied sealant to air 20-30 minutes.
 - (g) Make sure that the O-rings is not dislodged, pinched or damaged during assembly.
 - (h) Put the rotation tool, COM-4911, in its position on the end cap(s) and install the covers in the tank so that the spherical surface is inside the tank.
 - (i) Tighten the end cap(s) to 600 in-lb (68 N·m) – 800 in-lb (90 N·m).
 - (j) To install the lockwire, do this task: Lockwire, Cotter Pins, and Lockrings - Installation, TASK 20-10-44-400-801.

SUBTASK 38-10-00-420-006

- (4) Make sure that the drain valve is closed.

SUBTASK 38-10-00-420-010

- (5) If it is necessary, do this task: Water Tank Installation, TASK 38-11-01-400-801.

SUBTASK 38-10-00-110-002

- (6) Do this task: Potable Water System - Disinfectant, TASK 38-10-00-600-801.

SUBTASK 38-10-00-680-007

- (7) Do this task: Potable Water Tank - Fill, TASK 12-14-01-600-802.

SUBTASK 38-10-00-840-003

- (8) To restore pressure to the potable water system, do this task: Potable Water System - Activation, TASK 38-42-00-800-802.

SUBTASK 38-10-00-790-009

- (9) Examine all the connections for leakage.
 - (a) Make sure that there is no leakage.

SUBTASK 38-10-00-420-007

- (10) Install the insulation cover on the water tank.

EFFECTIVITY
LOM ALL

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I. Put the Airplane Back to Its Usual Condition

SUBTASK 38-10-00-410-005



WARNING

SEAL THE CARGO COMPARTMENT WITH THE LINING. OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN YOU INSTALL THE LINING. IF YOU INSTALL THE LINING INCORRECTLY, THE FIRE EXTINGUISHING AGENT OR SMOKE CAN CAUSE INJURIES.

- (1) Do this task: Aft Cargo Compartment Aft Bulkhead Liner - Installation, TASK 25-52-19-400-801.

SUBTASK 38-10-00-410-007

- (2) Close this access panel:

Number	Name/Location
822	Aft Cargo Door

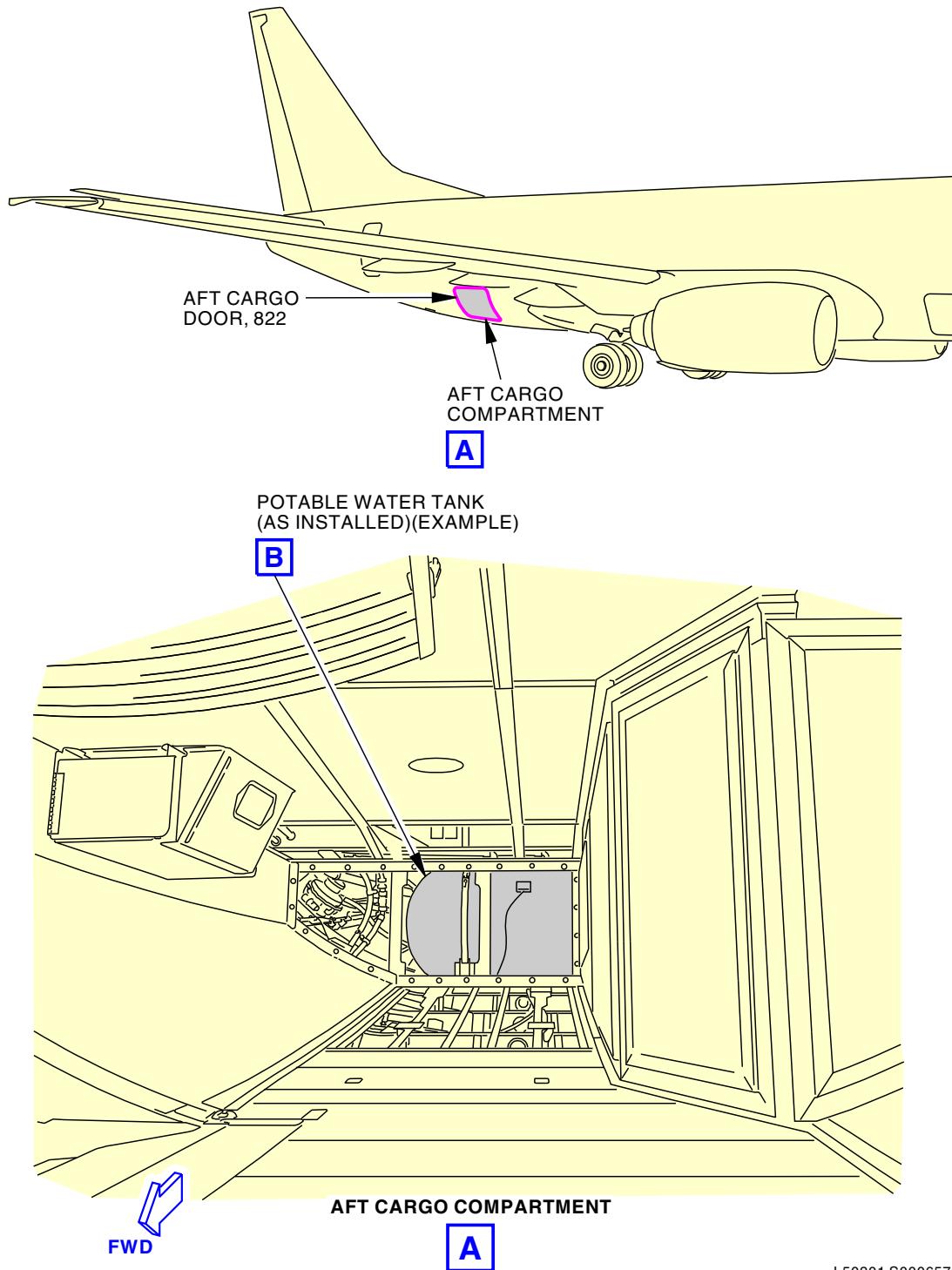
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EFFECTIVITY
LOM ALL

38-10-00



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L50301 S0006578135_V2

Water Tank Cleaning
Figure 701/38-10-00-990-803 (Sheet 1 of 3)

EFFECTIVITY
LOM ALL

38-10-00

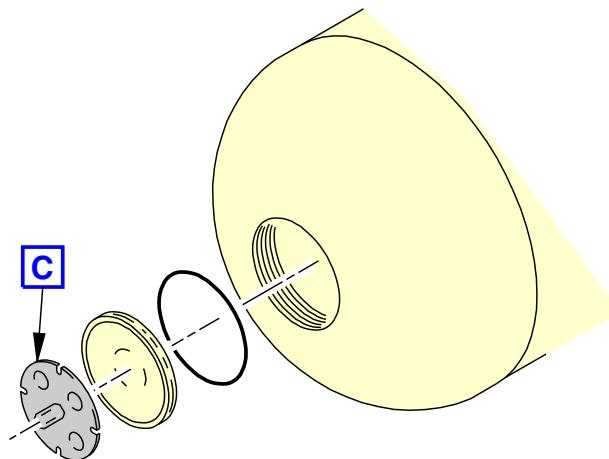
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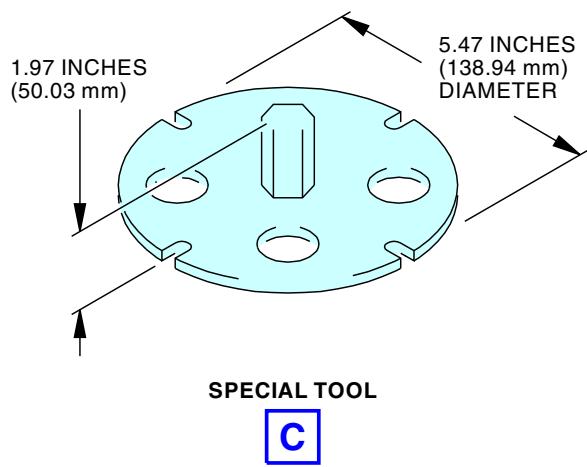
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WATER TANK END CAP



L50318 S0006578137_V2

Water Tank Cleaning
Figure 701/38-10-00-990-803 (Sheet 2 of 3)

EFFECTIVITY
LOM ALL; AIRPLANES NOT WITH POTABLE WATER
TANK YOKOHAMA S417A201-12

D633A101-LOM

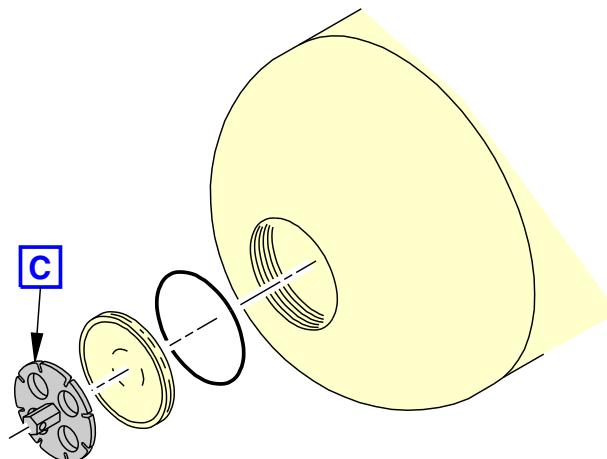
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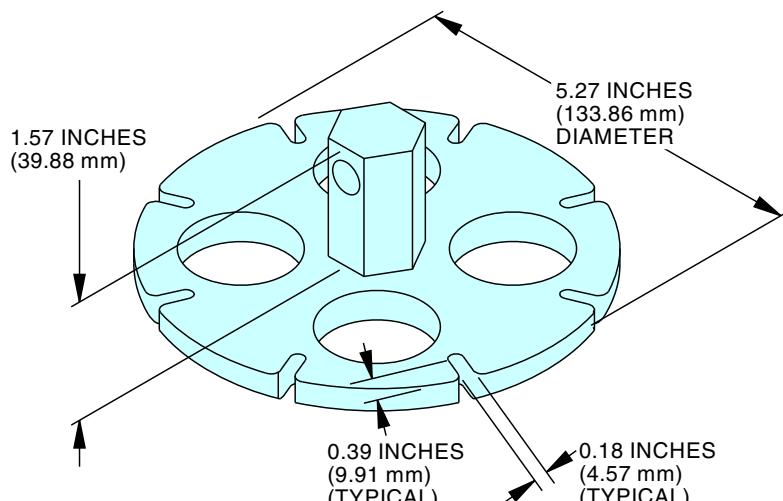
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WATER TANK END CAP



SPECIAL TOOL



2585337 S0000624157_V1

Water Tank Cleaning
Figure 701/38-10-00-990-803 (Sheet 3 of 3)

EFFECTIVITY
LOM ALL; AIRPLANES WITH POTABLE WATER
TANK YOKOHAMA S417A201-12

38-10-00

D633A101-LOM

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TASK 38-10-00-100-802

3. Descale Cleaning of the Potable Water System

A. General

- (1) The intent of this task is to provide a descale cleaning solution to the potable water system. Glyco-San is an aggressive cleaner and disinfectant, for use when mineral scale is present. Boeing does not recommend general or frequent use as a disinfectant.
- (2) Initial soak is recommended when descale cleaning has not been performed in over 360 days.
- (3) Periodic soak is recommended when descale cleaning is performed every 180 to 360 days.
- (4) It may take several flush steps to completely remove the cleaner from the system.

B. References

Reference	Title
12-14-01-600-801	Potable Water System - Drain (P/B 301)
12-14-01-600-802	Potable Water Tank - Fill (P/B 301)
38-11-04-960-801	Water Filter Replacement (P/B 401)

C. Tools/Equipment

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

Reference	Description
COM-1141	Equipment - Potable Water Servicing Part #: 19-4301-0000 Supplier: 59603 Part #: 19-4303-0000 Supplier: 59603 Part #: 2198-310 Supplier: 6L481 Part #: CPW-100 Supplier: 32526 Part #: CPW-100-1 Supplier: 32526 Part #: CPW-100-2 Supplier: 32526 Part #: PW100 Supplier: 1CSJ2 Part #: SPW-350 Supplier: 32526 Part #: SPW-500PL Supplier: 32526 Part #: WC100E (ID 2026505) Supplier: 0T652 Part #: WSP-900 Supplier: 6L481 Part #: WTM-900 Supplier: 6L481 Opt Part #: 2303 Supplier: 00365 Opt Part #: SPW-250 Supplier: 32526

D. Consumable Materials

Reference	Description	Specification
B50246	Cleaner - Glyco-San Potable Water System Cleaner	AMS 1550B

E. Access Panels

Number	Name/Location
146AR	Water Service Door



38-10-00



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F. Prepare to Descaling the Potable Water System

SUBTASK 38-10-00-680-009



WARNING

DRAIN, OR USE THE POTABLE WATER SYSTEM A MINIMUM OF ONE TIME EACH THREE DAYS. IF YOU DO NOT DRAIN, OR USE THE WATER SYSTEM FREQUENTLY, BACTERIA CAN GROW IN THE WATER. IF YOU DRINK WATER WITH BACTERIA IN IT, ILLNESS CAN OCCUR.

- (1) Drain the water tanks. This is the task: Potable Water System - Drain, TASK 12-14-01-600-801.

LOM 437, 438, 463

SUBTASK 38-10-00-020-009

- (2) To remove the filter canisters (if installed) from the water system in the lavatories, do the removal steps in this task: Water Filter Replacement, TASK 38-11-04-960-801.

NOTE: Make sure the top of the housing is in its position without the filter canister installed.

LOM ALL

SUBTASK 38-10-00-020-010

- (3) To remove the filter canisters (if installed) from the water system in the galleys, refer to the galley manufacturers instructions.

NOTE: Make sure the top of the housing is in its position without the filter canister installed.

G. Descaling the Potable Water System

SUBTASK 38-10-00-110-003

- (1) Make the cleaning solution as follows:

LOM 411, 416, 426-428, 439, 441, 445-447, 451, 452, 455, 456, 461-464

- (a) Mix 13 gal (49 l) of Glyco-San potable water system cleaner, B50246 with 40 gal (151 l) of water for all tanks.

LOM 407, 420, 458-460

- (b) Mix 17 gal (64 l) of Glyco-San potable water system cleaner, B50246 with 50 gal (189 l) of water for all tanks.

LOM 402, 404, 406, 412, 415, 422-425, 429-434, 437, 438, 440, 442-444, 450, 453, 454, 457, 465-999

- (c) Mix 20 gal (76 l) of Glyco-San potable water system cleaner, B50246 with 60 gal (227 l) of water for the tank.

LOM ALL

SUBTASK 38-10-00-010-007

- (2) Open this access panel:

<u>Number</u>	<u>Name/Location</u>
146AR	Water Service Door

SUBTASK 38-10-00-110-004

- (3) Add the cleaning solution to the potable water servicing equipment, COM-1141 for the potable water system.

NOTE: The filter cartridge must not be installed in the water service equipment.

SUBTASK 38-10-00-110-005

- (4) Add the cleaning solution to the potable water system:

EFFECTIVITY
LOM ALL

38-10-00



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- (a) To fill the tanks, do this task: Potable Water Tank - Fill, TASK 12-14-01-600-802.

SUBTASK 38-10-00-110-006

- (5) Let the potable water flow for one (1) minute or until the cleaning solution is visible, do this step:

NOTE: The cleaning solution may be noticeable by its slight yellow and foamy appearance.

- (a) Open all the lavatory faucets (hot and cold), galley faucets, water boiler valves, and coffee maker valves (as equipped) in the potable water system.

SUBTASK 38-10-00-110-007

- (6) After one (1) minute of water flow or if the cleaning solution is visible, do this step:

- (a) Close each faucet and valve.

SUBTASK 38-10-00-110-008

- (7) Flush each toilet at least twice with a 15 second delay between flushes or until cleaning solution appears.

NOTE: The cleaning solution may be noticeable by its slight yellow and foamy appearance.

SUBTASK 38-10-00-110-009

- (8) For initial soak, let the cleaning solution soak for a minimum of 6 hours.

NOTE: Initial soak is recommended when descale cleaning has not been performed in over 360 days.

SUBTASK 38-10-00-110-010

- (9) For periodic soak, let the cleaning solution soak for a minimum of 4 hours.

NOTE: Periodic soak is recommended when descale cleaning is performed every 180 to 360 days.

SUBTASK 38-10-00-170-003

- (10) After the soak is complete, do these steps:

- (a) Open each of the galley faucets, water boiler valves, and coffee maker valves (as equipped) to let the water in the galley supply lines, water boilers, and coffee makers drain.
(b) Do this task: Potable Water System - Drain, TASK 12-14-01-600-801.
(c) Close each of the galley faucets, water boiler valves, and coffee maker valves (as equipped).

SUBTASK 38-10-00-170-004

- (11) Do this task: Potable Water Tank - Fill, TASK 12-14-01-600-802.

SUBTASK 38-10-00-170-005

- (12) Let the potable water flow for one (1) minute or until the cleaning solution is no longer visible, do this step:

NOTE: The cleaning solution may be noticeable by its slight yellow and foamy appearance.

- (a) Open each lavatory faucet, galley faucet, water boiler valve, and coffee maker valve.

SUBTASK 38-10-00-170-006

- (13) After one (1) minute of water flow or if the cleaning solution is no longer visible, do this step:

- (a) Close the faucets, galley water boiler valves, and coffee maker valves.

EFFECTIVITY
LOM ALL

38-10-00



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SUBTASK 38-10-00-170-007

- (14) Flush each toilet at least twice with a 15 second delay between flushes or until water without the cleaning solution appears.

NOTE: The cleaning solution may be noticeable by its slight yellow and foamy appearance.

SUBTASK 38-10-00-170-008

- (15) Flush the potable water system again, do this task: Potable Water System - Drain, TASK 12-14-01-600-801.

SUBTASK 38-10-00-170-009

- (16) Do this task: Potable Water Tank - Fill, TASK 12-14-01-600-802.

SUBTASK 38-10-00-170-010

- (17) Let the potable water flow for one (1) minute, do this step:

- (a) Open each lavatory faucet, galley faucet, water boiler valve, and coffee maker valve (as equipped).

SUBTASK 38-10-00-170-011

- (18) After one (1) minute of water flow, do this step :

- (a) Close the faucets, galley water boiler valves, and coffee maker valves.

SUBTASK 38-10-00-170-012

- (19) Flush each toilet at least twice with a 15 second delay between flushes.

H. Potable Water System Check

SUBTASK 38-10-00-700-003

- (1) Check the potable water, do these steps:

- (a) Open one of the galley or lavatory faucets. Half fill a glass container.
(b) Make sure that the water is clear.
 1) If the water is clear, continue the procedure.
 2) If the water is not clear, do the tasks to drain, fill and flush the system with clean water.
(c) With the cap on the container, shake the container.
(d) Examine the water for foam or bubbles.
 1) If no foam or bubbles the system is flushed.
 2) If foam or bubbles are visible, do the tasks to drain, fill and flush the system with clean water.

I. Put the Airplane Back to its Usual Condition

LOM 437, 438, 463

SUBTASK 38-10-00-420-011

- (1) Install the new filter canisters (if equipped) to the water system in the lavatories, do this task: Water Filter Replacement, TASK 38-11-04-960-801.

LOM ALL

SUBTASK 38-10-00-420-012

- (2) Install the new galley filter canisters (if equipped).

SUBTASK 38-10-00-790-010

- (3) Make sure that there are no leaks in any filter canisters (if installed) or galley water units.

EFFECTIVITY
LOM ALL

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SUBTASK 38-10-00-410-009

- (4) Close this access panel:

<u>Number</u>	<u>Name/Location</u>
146AR	Water Service Door

———— END OF TASK ————

— EFFECTIVITY —
LOM ALL

38-10-00

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WATER TANK - REMOVAL/INSTALLATION

1. MAIN WATER TANK - REMOVAL/INSTALLATION

- A. This procedure has these tasks:
 - (1) A removal of the main water tank.
 - (2) An installation of the main water tank.
- B. In this procedure, the main water tank shall be referred to as the water tank.

TASK 38-11-01-000-801

2. Water Tank Removal

(Figure 401)

A. References

Reference	Title
12-14-01-600-801	Potable Water System - Drain (P/B 301)
25-52-19-000-801	Aft Cargo Compartment Aft Bulkhead Liner - Removal (P/B 401)
38-42-00-800-801	Potable Water System - Deactivation (P/B 201)
38-42-07-000-801	Water Pressure Cut-Out Switch Removal (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-2481	Sealant Removal Tool (Meets BSS7384 Requirements) Part #: 1-6390-A Supplier: 63318 Part #: 10810 Supplier: \$0855 Part #: 10811 Supplier: \$0855 Part #: 10812 Supplier: \$0855 Part #: 234350 Supplier: 5HCF1 Part #: 235072 Supplier: 5HCF1 Part #: 235073 Supplier: 5HCF1 Part #: 235074 Supplier: 5HCF1 Part #: 235075 Supplier: 5HCF1 Part #: 235076 Supplier: 5HCF1 Part #: 311/03 Supplier: F6892 Part #: 311/14 Supplier: F6892 Part #: 311/25 Supplier: F6892 Part #: 311/37 Supplier: F6892 Part #: AS1 Supplier: \$1351 Part #: AS2 Supplier: \$1351 Part #: AS3 Supplier: \$1351 Part #: DAD5013 Supplier: 7RKH2 Part #: DFD5019 Supplier: 7RKH2 Part #: JNT411B60 Supplier: 3DN12 Part #: JNT411B90 Supplier: 3DN12 Part #: PT6529-S Supplier: 81205 Part #: SCD5019 Supplier: 7RKH2 Part #: ST982LF-9 Supplier: 81205 Part #: TS1275-4 Supplier: 22975

EFFECTIVITY
LOM ALL

38-11-01



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C. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
142	Aft Cargo Compartment - Right
822	Aft Cargo Door

D. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
822	Aft Cargo Door

E. Prepare for the Removal

SUBTASK 38-11-01-860-001

- (1) Do this task: Potable Water System - Deactivation, TASK 38-42-00-800-801.

SUBTASK 38-11-01-680-001

- (2) Do this task: Potable Water System - Drain, TASK 12-14-01-600-801.

SUBTASK 38-11-01-860-013

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	13	C00104	LAVATORY WATER HEATER A
LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-999			
F	14	C01073	LAVATORY WATER HEATER D
LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-465			
F	15	C01096	LAVATORY WATER HEATER E
LOM 445			
F	16	C01510	LAVATORY WATER HEATER G

LOM ALL

SUBTASK 38-11-01-010-005

- (4) To get access to the P91 panel, open this access panel:

Number Name/Location

117A	Electronic Equipment Access Door
------	----------------------------------

SUBTASK 38-11-01-860-011



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.

EFFECTIVITY
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(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.

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

Power Distribution Panel Number 1, P91

Row Col Number Name

LOM 402, 404, 406

A 18 C00873 POT WATER COMPRESSOR

LOM ALL

C 9 C00138 WATER QTY IND

LOM 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-999

D 11 C00873 POT WATER COMPRESSOR

LOM ALL

SUBTASK 38-11-01-010-001

- (6) Open this access panel:

Number Name/Location

822 Aft Cargo Door

SUBTASK 38-11-01-010-002

- (7) Do this task: Aft Cargo Compartment Aft Bulkhead Liner - Removal, TASK 25-52-19-000-801.

SUBTASK 38-11-01-020-001

- (8) Do these steps to get access to the tank assembly [1].

- Remove the screws [3], screws [4], and screw [5] to disconnect the support assembly [2].
- Remove the screws [4] to disconnect the stanchion assembly [6].
- Pull the pull pin [8] to disconnect the stanchion assembly [7].

F. Water Tank Removal

SUBTASK 38-11-01-020-002

- (1) Disconnect the water quantity transmitter as follows.

- Remove the screws [16] and washers [17] that attach the cover [15] to the water tank assembly [1].
- Use the sealant removal tool, COM-2481, or equivalent, to remove the sealant from the screw [18], washer [19] and connector [20].
- Remove the screw [18] and washer [19] that attach the connector [20] to the terminal.

SUBTASK 38-11-01-020-003

- (2) Disconnect the electrical connector [12] from the pressure switch [11].

SUBTASK 38-11-01-020-004

- (3) Remove the pressure switch, do this task: Water Pressure Cut-Out Switch Removal, TASK 38-42-07-000-801.

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LOM ALL

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SUBTASK 38-11-01-020-005

- (4) Disconnect the pressurization connection [9] from the top of the water tank assembly [1].

SUBTASK 38-11-01-020-007

- (5) Remove the clamshells [13] and packings [14] to disconnect the water hoses from the top of the water tank assembly [1].

SUBTASK 38-11-01-020-016

- (6) If necessary, remove the tank fitting [42] and packing [43].

SUBTASK 38-11-01-020-008

- (7) Remove the clamshell [34], sleeve [35], and packings [36] to disconnect the drain fitting [37] from the tank fitting [33].

SUBTASK 38-11-01-020-015

- (8) Remove the nut [38], washers [39], and screw [40] to disconnect the ground strap [41] from the water tank assembly [1].

SUBTASK 38-11-01-020-017

- (9) If necessary, remove the tank fitting [33], washer [44], and packing [45].

SUBTASK 38-11-01-860-003

- (10) Remove the bolt [21], washer [22], washer [23], and nut [24] to disconnect the tie rod assembly [25].

SUBTASK 38-11-01-860-004

- (11) Disconnect the strap assemblies [10] that hold the water tank assembly [1] in its position.

SUBTASK 38-11-01-020-009

- (12) Remove the bolts [29], washers [30], and nuts [31] to disconnect the forward mounts [32].
(a) Remove the right side forward mount [32].
(b) If necessary, remove the left side forward mount [32].

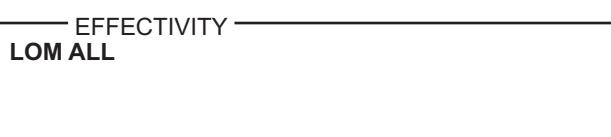
SUBTASK 38-11-01-020-010

- (13) If it is necessary to prevent damage, remove the insulation blankets from the water tank assembly [1].

SUBTASK 38-11-01-020-011

- (14) Remove the water tank assembly [1].

———— END OF TASK ———

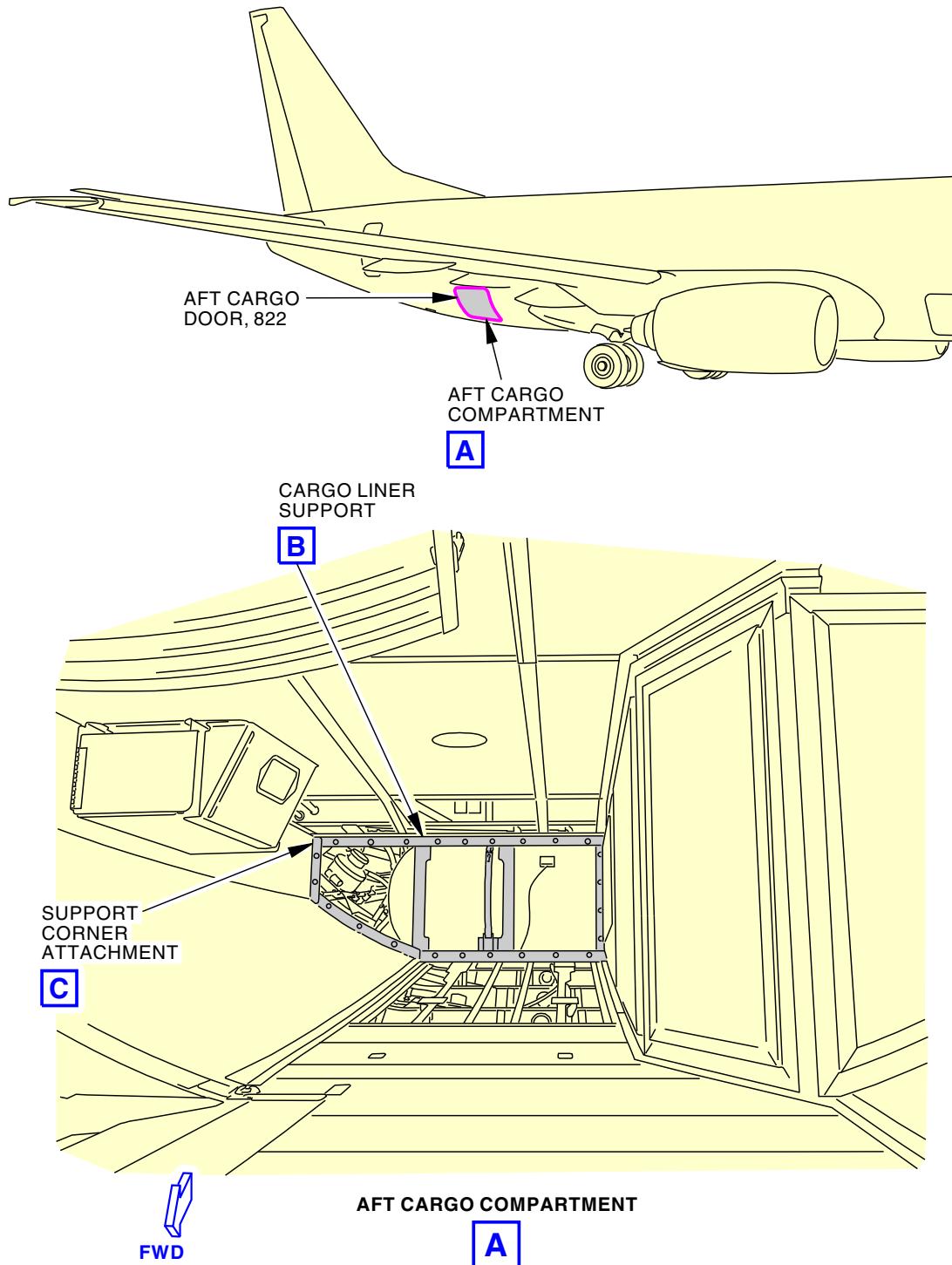


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G20499 S0006578152_V2

Potable Water Tank Installation
Figure 401/38-11-01-990-802 (Sheet 1 of 6)

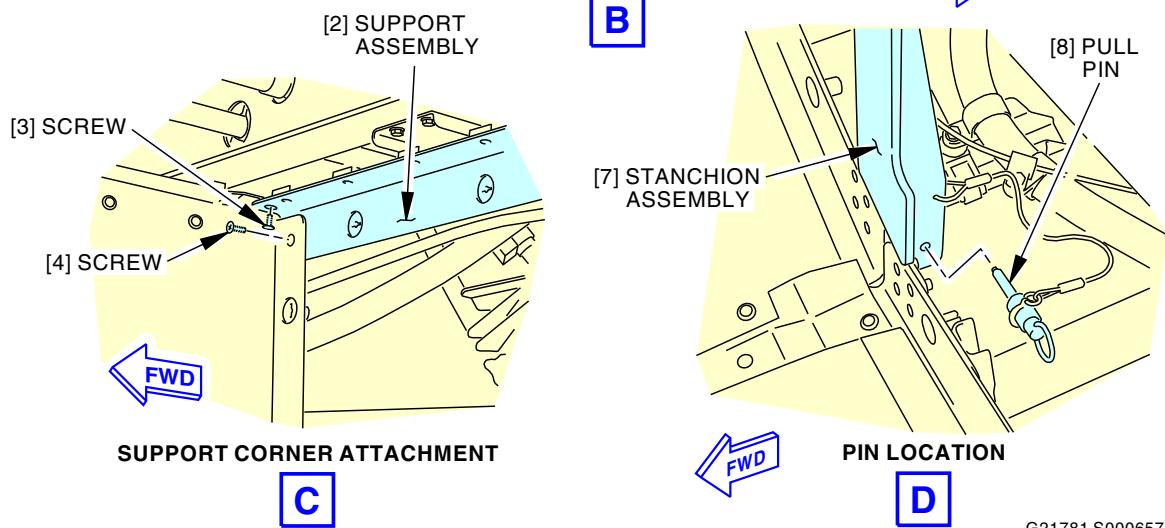
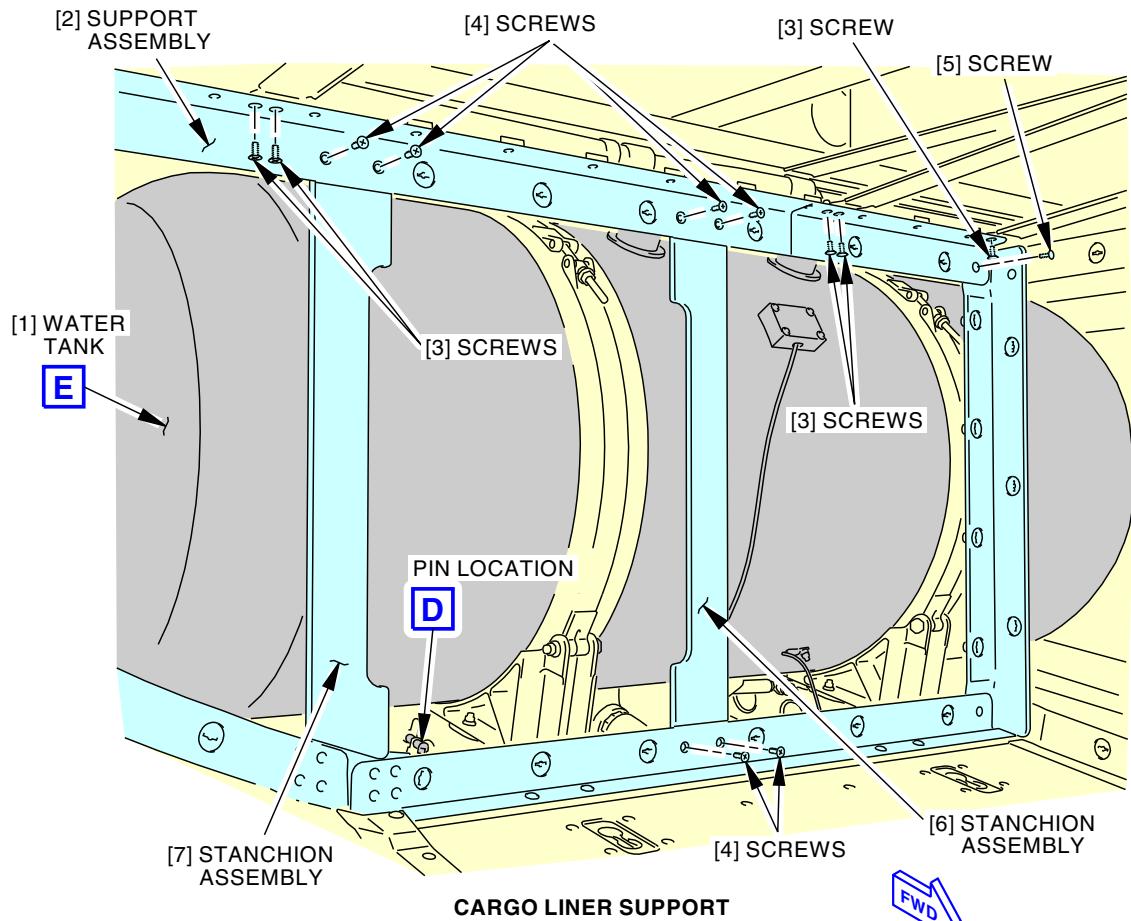
EFFECTIVITY
LOM ALL

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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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G21781 S0006578156_V2

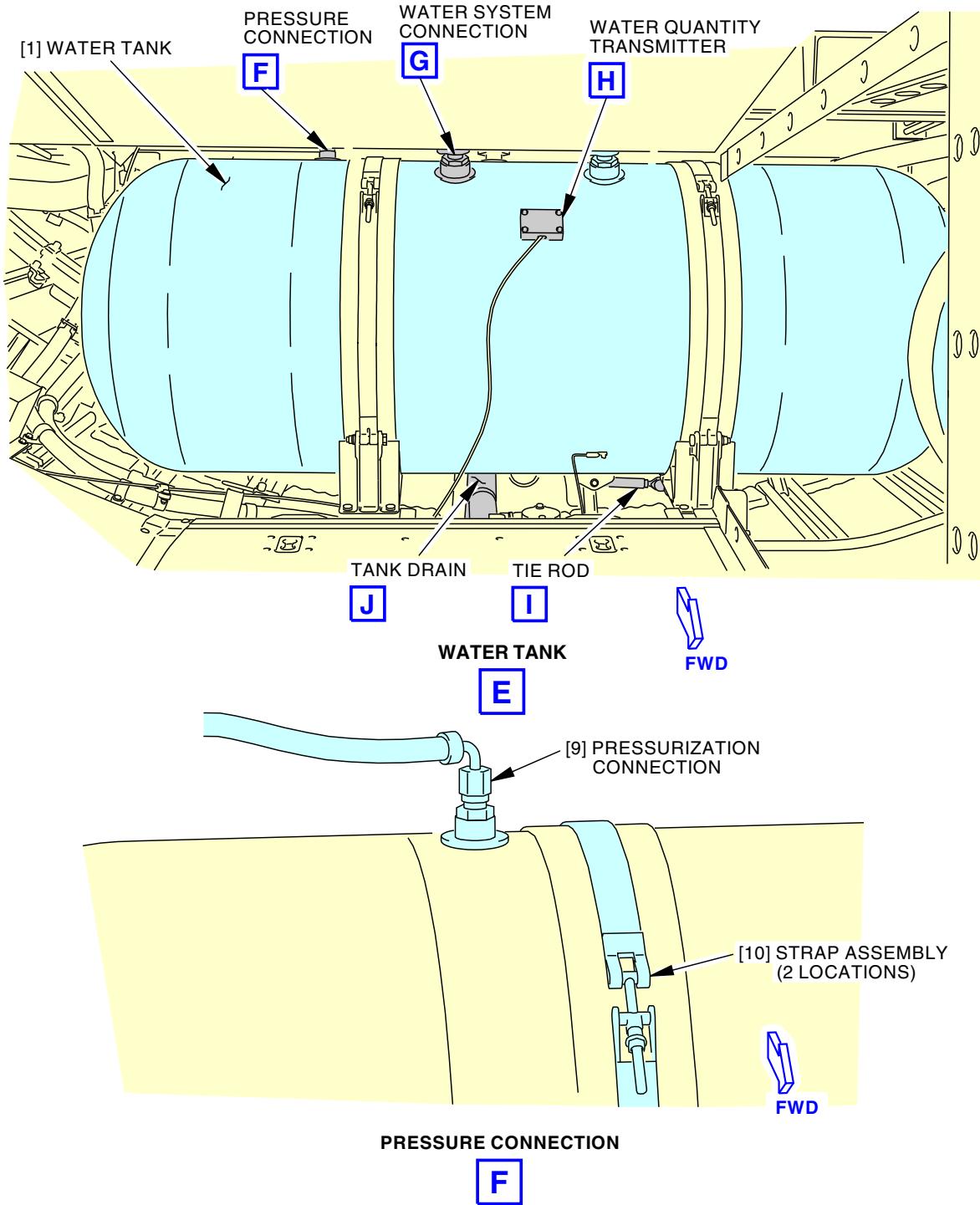
Potable Water Tank Installation
Figure 401/38-11-01-990-802 (Sheet 2 of 6)

EFFECTIVITY
LOM ALL

38-11-01



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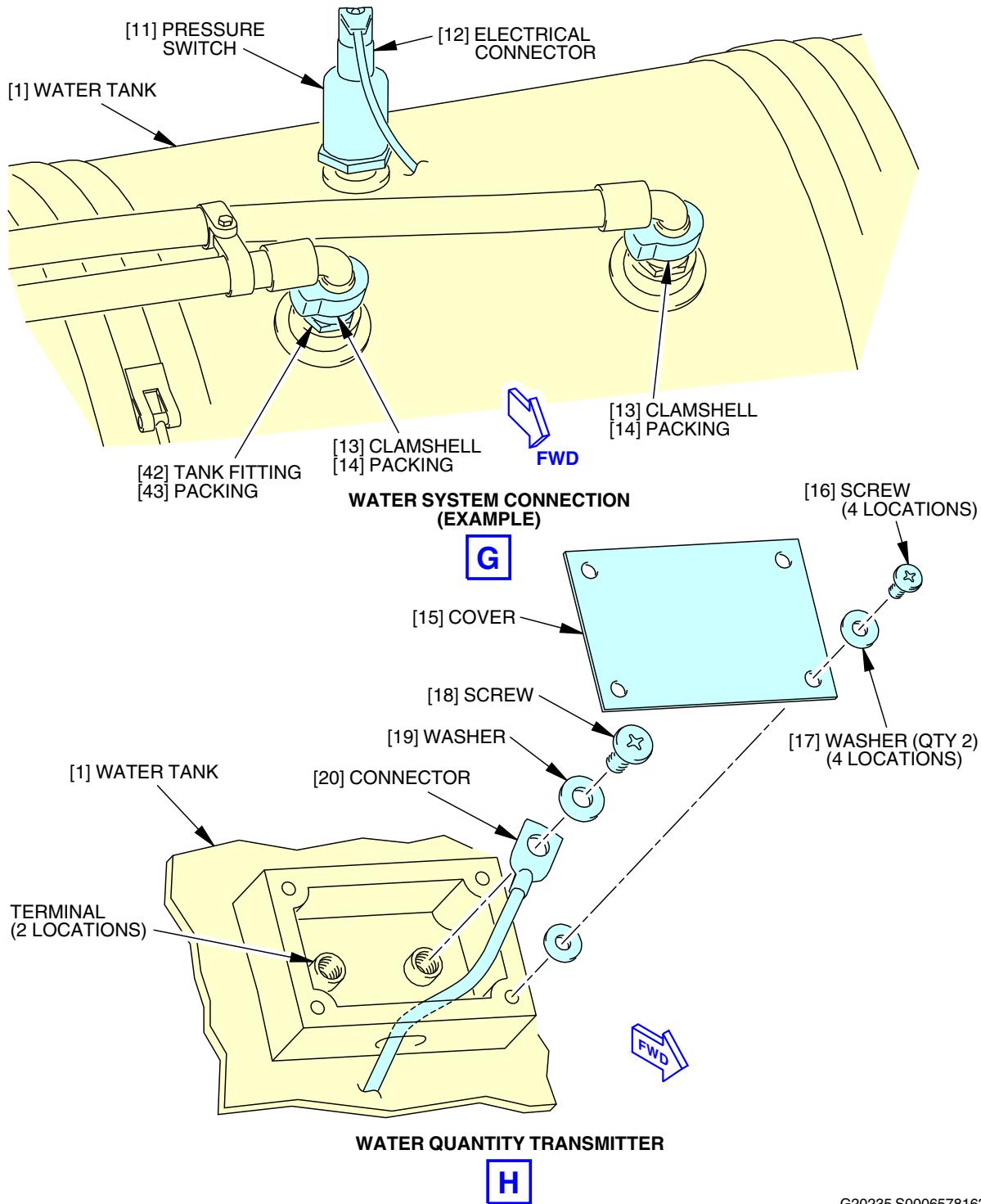
G20506 S0006578160_V2

Potable Water Tank Installation
Figure 401/38-11-01-990-802 (Sheet 3 of 6)

EFFECTIVITY
LOM ALL

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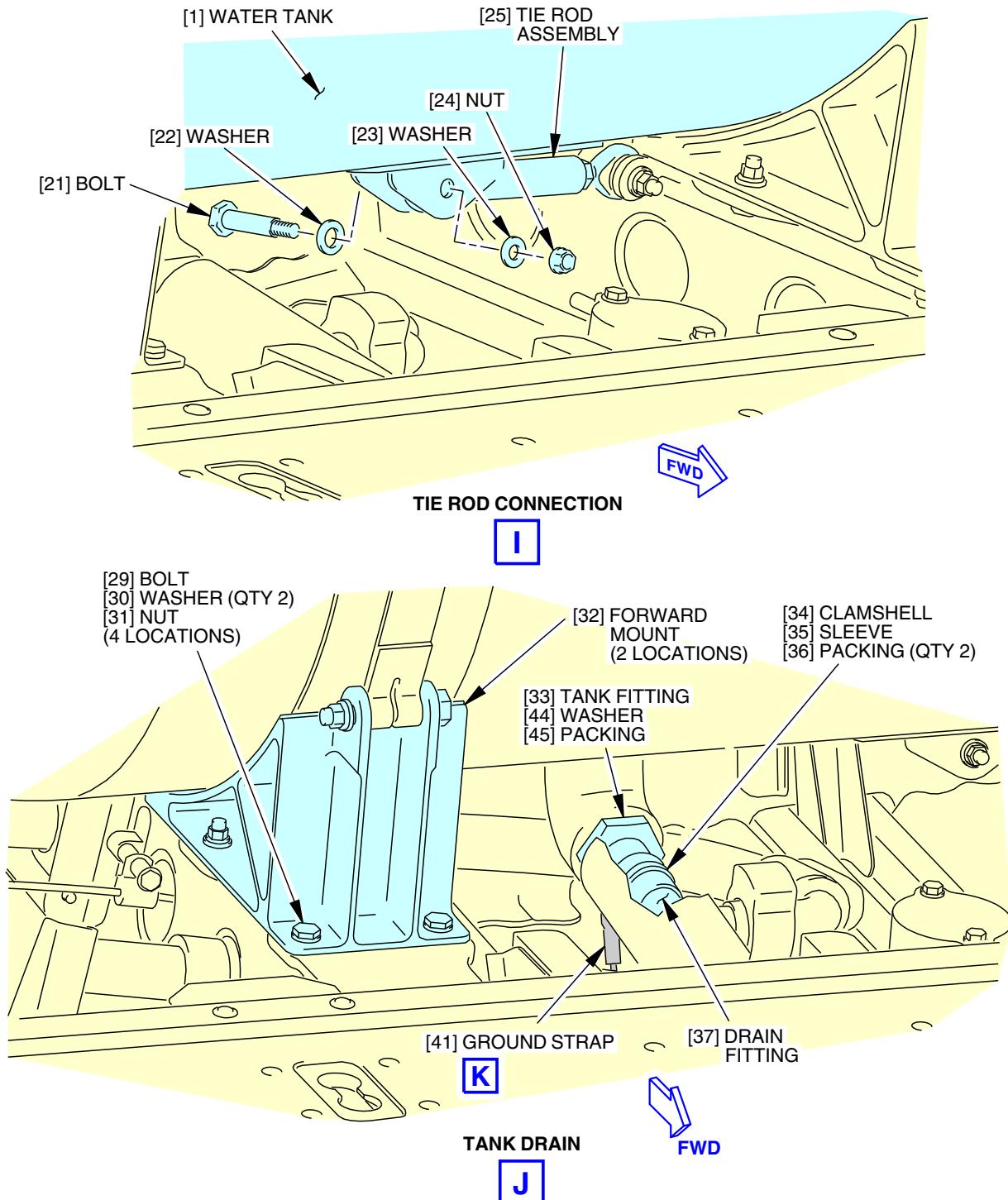


G20235 S0006578163_V6

Potable Water Tank Installation
Figure 401/38-11-01-990-802 (Sheet 4 of 6)

EFFECTIVITY
 LOM ALL

38-11-01

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L77181 S0006578167_V5

Potable Water Tank Installation
Figure 401/38-11-01-990-802 (Sheet 5 of 6)

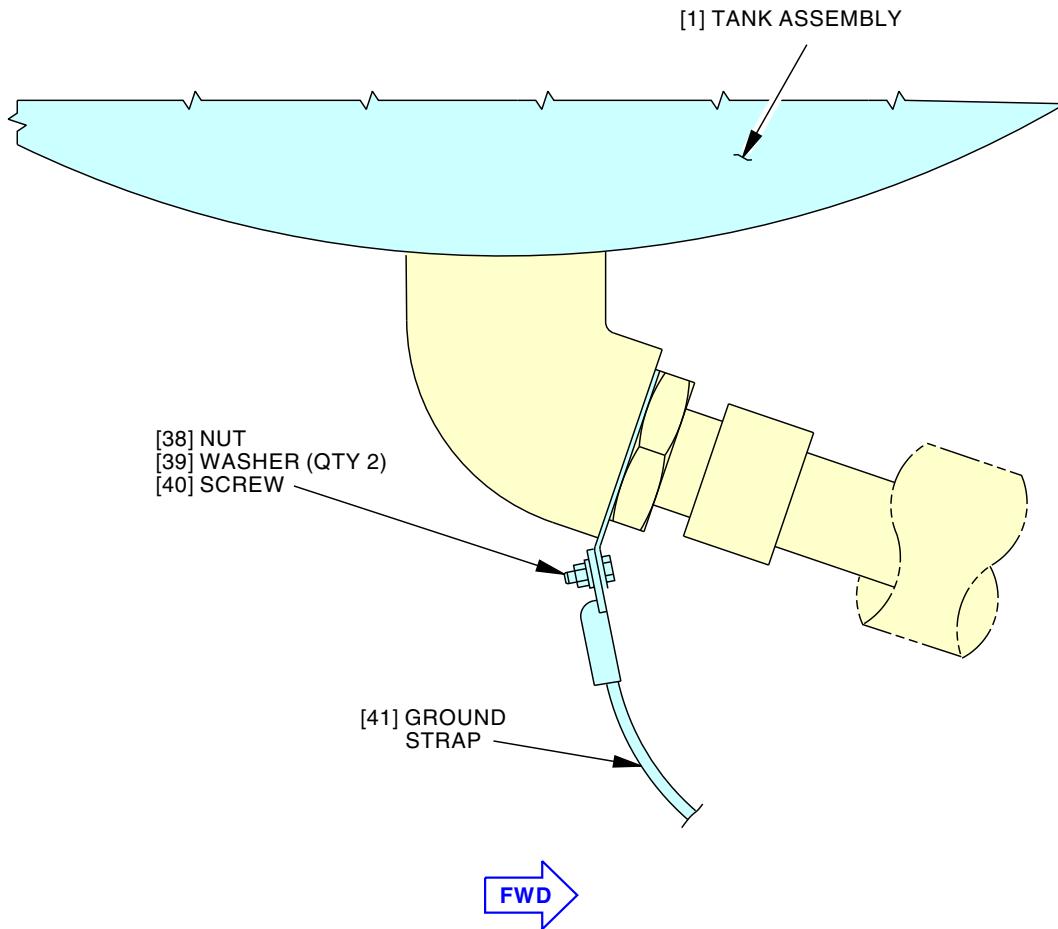
EFFECTIVITY
LOM ALL; AIRPLANES WITH FIBERGLASS WATER
TANK

38-11-01

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GROUND STRAP ASSEMBLY

K

1913630 S0000345691_V2

Potable Water Tank Installation
Figure 401/38-11-01-990-802 (Sheet 6 of 6)

EFFECTIVITY
LOM ALL

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TASK 38-11-01-400-801

3. Water Tank Installation

(Figure 401)

A. General

- (1) In this task, the potable water tank shall be referred to as the water tank.

B. References

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
25-52-19-400-801	Aft Cargo Compartment Aft Bulkhead Liner - Installation (P/B 401)
38-10-00-600-801	Potable Water System - Disinfectant (P/B 201)
38-42-00-800-802	Potable Water System - Activation (P/B 201)
38-42-07-400-801	Water Pressure Cut-Out Switch Installation (P/B 201)
SWPM 20-20-00	ELECTRICAL BONDING PROCESSES

C. Tools/Equipment

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

Reference	Description
COM-614	Bonding Meters - Non-Intrinsically Safe (For use in outside Class I, Divisions I & II non-hazardous locations. For hazardous locations, use COM-1550). Part #: 247000 Supplier: 00426 Part #: 620LK Supplier: 1CRL2 Part #: BLR-0003-XX Supplier: KC432 Part #: BT51 Supplier: 00426 Part #: M1 Supplier: 3AD17 Part #: M1B Supplier: 3AD17 Part #: T477W (C15292) Supplier: 06659 Opt Part #: 247001 Supplier: 00426

D. Consumable Materials

Reference	Description	Specification
A50110	Sealant - Fuel Tank	BMS5-45 Class B-2
A50155	Sealant - Fuel Tank	BMS5-45 Class C
A50231	Sealant - Pressure And Environmental - Chromate Type	BMS5-95 Class B
A50296	Sealant - Pressure And Environmental - Chromate Type	BMS5-95 Class C
A50337	Sealant - Fuel Tank	BMS5-45 Class B
A50359	Sealant - Low Density, Non-Chromate Type	BMS5-142 Type II Class B
B00130	Alcohol - Isopropyl	TT-I-735
B00184	Solvent - Presealing, Cleaning Solvent	BMS11-7
D00189	Compound - Molykote 111 (Formerly Dow Corning 111, Valve Sealant and Lubricant)	
D00463	Grease - Food Processing Equipment	DOD-G-24650

EFFECTIVITY	LOM ALL
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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 CLA)

E. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Tank assembly	38-11-01-12-260	LOM 407, 411, 416, 420, 426-428, 439, 441, 445-447, 451, 452, 455, 456, 458-464
		38-11-01-12-315	LOM 407, 411, 416, 420, 426-428, 439, 441, 445-447, 451, 452, 455, 456, 458-464
		38-11-01-12A-330	LOM 465-999
		38-11-01-14-150	LOM 402, 404, 406, 412, 415, 422-425, 429-434, 437, 438, 440, 442-444, 450, 453, 454, 457
		38-11-01-14-190	LOM 402, 404, 406, 412, 415, 422-425, 429-434, 437, 438, 440, 442-444, 450, 453, 454, 457
14	Packing	38-11-01-12-235	LOM 407, 411, 416, 420, 426-428, 439, 441, 445-447, 451, 452, 455, 456, 458-464
		38-11-01-12A-085	LOM 465-999
		38-11-01-14-125	LOM 402, 404, 406, 412, 415, 422-425, 429-434, 437, 438, 440, 442-444, 450, 453, 454, 457
36	Packing	38-11-01-12-235	LOM 407, 411, 416, 420, 426-428, 439, 441, 445-447, 451, 452, 455, 456, 458-464
		38-11-01-12A-085	LOM 465-999
		38-11-01-14-125	LOM 402, 404, 406, 412, 415, 422-425, 429-434, 437, 438, 440, 442-444, 450, 453, 454, 457
43	Packing	38-11-01-12-270	LOM 407, 411, 416, 420, 426-428, 439, 441, 445-447, 451, 452, 455, 456, 458-464



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(Continued)

AMM Item	Description	AIPC Reference	AIPC Effectivity
43 (cont.)		38-11-01-12A-080 38-11-01-14-165	LOM 465-999 LOM 402, 404, 406, 412, 415, 422-425, 429-434, 437, 438, 440, 442-444, 450, 453, 454, 457
45	Packing	38-11-01-12-270	LOM 402, 404, 406, 412, 415
		38-11-01-12A-080 38-11-01-14-165	LOM 407, 411, 416, 420, 426-428, 439, 441, 445-447, 451, 452, 455, 456, 458-464
		38-11-01-14-166	LOM 465-999 LOM 402, 404, 406, 412, 415, 422-425, 429-434, 437, 438, 440, 442-444, 450, 453, 454, 457
		38-11-01-14-166	LOM 402, 404, 406, 412, 415

F. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
142	Aft Cargo Compartment - Right
822	Aft Cargo Door

G. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
822	Aft Cargo Door

H. Water Tank Installation

SUBTASK 38-11-01-420-001

- (1) Put the potable water tank assembly [1] into the aft cargo compartment.

SUBTASK 38-11-01-420-003

- (2) Put the water tank assembly [1] in its position.

SUBTASK 38-11-01-420-004

- (3) Put the right side forward mount [32] in its position.

- (a) If necessary, put the left side forward mount [32] in its position.

SUBTASK 38-11-01-420-005

- (4) Install the bolts [29], washers [30], and nuts [31] to connect the forward mounts [32].

SUBTASK 38-11-01-420-006

- (5) Install the bolt [21], washer [22], washer [23], and nut [24] to connect the tie rod assembly [25].

SUBTASK 38-11-01-420-007

- (6) Install the strap assemblies [10].



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SUBTASK 38-11-01-420-015

- (7) Install the insulation blankets on the water tank assembly [1].

SUBTASK 38-11-01-420-017

- (8) Do these steps to install the tank fitting [33], if necessary:
- (a) Apply grease, D00463, or Molykote 111 Compound, D00189, to the new packing [45].
 - (b) Install the packing [45], washer [44], and tank fitting [33] on the tank assembly [1].

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-464

- (c) Tighten the tank fitting [33] to 790 ± 40 in-lb (89.3 ± 4.5 N·m).

LOM 465-999

- (d) Tighten the tank fitting [33] to 550 ± 40 in-lb (62.1 ± 4.5 N·m).

LOM ALL

SUBTASK 38-11-01-640-001

- (9) Apply grease, D00463, or Molykote 111 Compound, D00189, to the new packings [36].

SUBTASK 38-11-01-420-016

- (10) Install the nut [38], washers [39], and screw [40] to connect the ground strap [41] to the water tank assembly [1].
- (a) Use cotton wiper, G00034, moist in solvent, B00184, to clean the mating surfaces of the nut [38], washers [39], screw [40], ground strap [41] and tank assembly [1].
 - (b) Apply sealant, A50110, or sealant, A50155, or sealant, A50231, or sealant, A50296, to the mating surfaces of the nut [38], washers [39], screw [40], and ground strap [41].
 - (c) Install the nut [38], washers [39], screw [40], and ground strap [41].
 - (d) Tighten the nut [38] to 8 in-lb (0.9 N·m).
 - 1) Make sure that there is squeeze out around all the interfaces of each component.
 - (e) Measure the electrical resistance between the ground strap [41] and tank assembly [1] (SWPM 20-20-00).
 - 1) Use a non-intrinsically safe bonding meter, COM-614.
 - 2) Make sure that the electrical bonding resistance is 0.001 ohm (1.0 milliohm) or less.

SUBTASK 38-11-01-420-008

- (11) Install the clamshell [34], sleeve [35], and new packings [36] to connect the tank fitting [33] to the drain fitting [37].

SUBTASK 38-11-01-420-018

- (12) Do these steps to install the tank fitting [42], if necessary:
- (a) Apply grease, D00463, or Molykote 111 Compound, D00189, to the new packing [43].
 - (b) Install the packing [43] and tank fitting [42] on the tank assembly [1].

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-464

- (c) Tighten the new packing [43] to 790 ± 40 in-lb (89.3 ± 4.5 N·m).

LOM 465-999

- (d) Tighten the new packing [43] to 550 ± 40 in-lb (62.1 ± 4.5 N·m).

LOM ALL

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SUBTASK 38-11-01-640-002

- (13) Apply grease, D00463, or Molykote 111 Compound, D00189, to the new packings [14].

SUBTASK 38-11-01-420-009

- (14) Install the clamshell [13] and new packings [14] to connect the water hoses to the top of the water tank assembly [1].

SUBTASK 38-11-01-410-001

- (15) Connect the pressurization connection [9] to the top of the water tank assembly [1].
(a) Use a wrench to prevent movement of the tank fitting.

SUBTASK 38-11-01-420-010

- (16) Install the pressure switch, do this task: Water Pressure Cut-Out Switch Installation, TASK 38-42-07-400-801.

SUBTASK 38-11-01-420-011

- (17) Connect the electrical connector [12] to the pressure switch [11].

SUBTASK 38-11-01-420-012

- (18) Connect the water quantity transmitter as follows:

- (a) Install the connector [20] in its position on the water tank as follows:

NOTE: There are two transmitter cable connector terminals on the water tank. The transmitter cable connector may be connected to either terminal. Each terminal is attached to the sensor grid within the tank sidewall.

- 1) Use cotton wiper, G00034, moist in alcohol, B00130, to clean the mating surfaces of the screw [18], washer [19], and connector [20].
 - 2) Install the screw [18] and washer [19] to attach the connector [20] to the terminal.
 - 3) Tighten the screw [18] to 35 ± 2 in-lb (4.0 ± 0.2 N·m).
 - 4) Measure the electrical resistance between the washer [19] and the second terminal in the housing (SWPM 20-20-00).
 - a) Use the non-intrinsically safe bonding meter, COM-614.
 - b) Make sure that the electrical bonding resistance is 0.008 ohm (8.0 milliohm) or less.
 - 5) Apply fillet seal with sealant, A50337, or sealant, A50231, or sealant, A50359, to cover the screw [18], washer [19], and connector [20].
- (b) Install the screws [16] and washers [17] to attach the cover [15] to the water tank assembly [1].

SUBTASK 38-11-01-020-013

- (19) Do these steps to install the cargo liner support.

- (a) Install the stanchion assembly [7] and insert the pull pin [8].
- (b) Install the screws [4] to connect the stanchion assembly [6].
- (c) Install the screws [3], screws [4], and screw [5] to connect the support assembly [2].

EFFECTIVITY
LOM ALL

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SUBTASK 38-11-01-860-010



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.

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

Power Distribution Panel Number 1, P91

Row Col Number Name

LOM 402, 404, 406

A 18 C00873 POT WATER COMPRESSOR

LOM ALL

C 9 C00138 WATER QTY IND

LOM 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-999

D 11 C00873 POT WATER COMPRESSOR

LOM ALL

SUBTASK 38-11-01-410-008

- (21) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-11-01-860-012

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

CAPT Electrical System Panel, P18-3

Row Col Number Name

F 13 C00104 LAVATORY WATER HEATER A

LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-999

F 14 C01073 LAVATORY WATER HEATER D

LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-465

F 15 C01096 LAVATORY WATER HEATER E

LOM 445

F 16 C01510 LAVATORY WATER HEATER G

LOM ALL

SUBTASK 38-11-01-670-001

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

SUBTASK 38-11-01-670-002

- (24) Do this task: Potable Water System - Disinfectant, TASK 38-10-00-600-801.

EFFECTIVITY
LOM ALL

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SUBTASK 38-11-01-790-001

- (25) Do this task: Potable Water System - Activation, TASK 38-42-00-800-802.

SUBTASK 38-11-01-710-001

- (26) Examine the connections of the water hoses and the pressurization connection [9] for leakage.

SUBTASK 38-11-01-710-002

- (27) Examine the fittings on the bottom of the water tanks for leakage.

I. Put the Airplane Back to Its Usual Condition

SUBTASK 38-11-01-410-003



WARNING

SEAL THE CARGO COMPARTMENT WITH THE LINING. OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN YOU INSTALL THE LINING. IF YOU INSTALL THE LINING INCORRECTLY, THE FIRE EXTINGUISHING AGENT OR SMOKE CAN CAUSE INJURIES.

- (1) Do this task: Aft Cargo Compartment Aft Bulkhead Liner - Installation, TASK 25-52-19-400-801.

SUBTASK 38-11-01-410-004

- (2) Close this access panel:

Number Name/Location

822 Aft Cargo Door

———— END OF TASK ————

EFFECTIVITY
LOM ALL

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FILL/OVERFLOW VALVE AND CONTROL CABLE - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
- (1) A removal of the fill/overflow valve.
 - (2) An installation of the fill/overflow valve.
 - (3) A removal of the control cable for the fill/overflow valve.
 - (4) An installation of the control cable for the fill/overflow valve.

TASK 38-11-03-000-801

2. Fill/Overflow Valve Removal

(Figure 401)

A. References

Reference	Title
25-52-19-000-801	Aft Cargo Compartment Aft Bulkhead Liner - Removal (P/B 401)
38-42-00-800-801	Potable Water System - Deactivation (P/B 201)

B. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
142	Aft Cargo Compartment - Right
822	Aft Cargo Door

C. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
822	Aft Cargo Door

D. Prepare for the Removal

SUBTASK 38-11-03-800-001

- (1) Do this task: Potable Water System - Deactivation, TASK 38-42-00-800-801.

SUBTASK 38-11-03-010-017

- (2) To get access to the P91 panel, open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 38-11-03-860-007



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.

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(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) Open this circuit breaker and install safety tag:

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	9	C00138	WATER QTY IND

SUBTASK 38-11-03-010-008

- (4) Open this access panel:

<u>Number</u>	<u>Name/Location</u>
822	Aft Cargo Door

SUBTASK 38-11-03-010-009

- (5) Do this task: Aft Cargo Compartment Aft Bulkhead Liner - Removal, TASK 25-52-19-000-801.

E. Fill/Overflow Valve Removal

SUBTASK 38-11-03-020-001

- (1) Remove the bolts [5] and washers [6] to disconnect the control cable [13] from the fill/overflow valve [23].

SUBTASK 38-11-03-020-002

- (2) Remove the screws [1] and washers [2] that attach the fill/overflow valve [23] to the structure.

SUBTASK 38-11-03-020-003

- (3) Disconnect these water hoses from the fill/overflow valve [23]:

- The water hose to the water service panel.
- The water hose to fill the water tanks.
- The water hose for the water tank overflow.
- The water hose to attach the overflow to the skin fitting.

SUBTASK 38-11-03-020-004

- (4) Remove the screws [3] that attach the fill/overflow valve [23] to the bracket [4].

SUBTASK 38-11-03-020-005

- (5) Remove the fill/overflow valve [23].

———— END OF TASK ————

TASK 38-11-03-400-801

3. Fill/Overflow Valve Installation

(Figure 401)

A. References

<u>Reference</u>	<u>Title</u>
25-52-19-400-801	Aft Cargo Compartment Aft Bulkhead Liner - Installation (P/B 401)

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(Continued)

Reference	Title
38-10-00-600-801	Potable Water System - Disinfectant (P/B 201)
38-42-00-800-802	Potable Water System - Activation (P/B 201)

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
23	Fill/overflow valve	38-11-03-03-185	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420
		38-11-03-03A-185	LOM 422-434, 437-447, 450-999

C. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
142	Aft Cargo Compartment - Right
822	Aft Cargo Door

D. Access Panels

Number	Name/Location
146AR	Water Service Door
822	Aft Cargo Door

E. Fill/Overflow Valve Installation

SUBTASK 38-11-03-420-002

- (1) Install the screws [3] and bracket [4] on the fill/overflow valve [23].

SUBTASK 38-11-03-420-003

- (2) Put the fill/overflow valve [23] in its position.

SUBTASK 38-11-03-420-004

- (3) Connect these water hoses to the fill/overflow valve [23]:

- (a) The water hose to the water service panel.
- (b) The water hose to fill the water tanks.
- (c) The water hose for the water tank overflow.
- (d) The water hose to drain the water at the skin fitting.

SUBTASK 38-11-03-420-005

- (4) Install the screws [1] and washers [2] that connect the fill/overflow valve [23] to the structure.

SUBTASK 38-11-03-420-006

- (5) Do these steps to attach the control cable [13] to the fill/overflow valve [23]:

- (a) Make sure that the fill/overflow valve [23] is in the CLOSE position.

NOTE: Align the arrows to show that the valve is closed.

- (b) Make sure that the control cable [13] is in the CLOSE position.

- (c) Install the bolts [5] and washers [6] to connect the control cable [13].



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F. Fill/Overflow Valve Installation Test

SUBTASK 38-11-03-860-008



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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	9	C00138	WATER QTY IND

SUBTASK 38-11-03-710-002

- (2) Do this task: Potable Water System - Activation, TASK 38-42-00-800-802.

- (a) Make sure that the air compressor for the potable water system is on.

SUBTASK 38-11-03-010-019

- (3) Open this access panel:

<u>Number</u>	<u>Name/Location</u>
146AR	Water Service Door

SUBTASK 38-11-03-710-003

- (4) Turn the handle for the fill/overflow valve to the OPEN position.
 - (a) If the fill/overflow valve is not in the OPEN position, do a check for correct installation.
 - (b) Turn the handle for the fill/overflow valve to the CLOSED position.

G. Put the Airplane Back to Its Usual Condition

SUBTASK 38-11-03-670-001

- (1) Do this task: Potable Water System - Disinfectant, TASK 38-10-00-600-801.

SUBTASK 38-11-03-010-020

- (2) Open this access panel:

<u>Number</u>	<u>Name/Location</u>
822	Aft Cargo Door

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SUBTASK 38-11-03-410-006



WARNING

SEAL THE CARGO COMPARTMENT WITH THE LINING. OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN YOU INSTALL THE LINING. IF YOU INSTALL THE LINING INCORRECTLY, THE SMOKE CAN GET INTO THE PASSENGER COMPARTMENT DURING A FIRE.

- (3) Do this task: Aft Cargo Compartment Aft Bulkhead Liner - Installation, TASK 25-52-19-400-801.

SUBTASK 38-11-03-410-021

- (4) Close this access panel:

<u>Number</u>	<u>Name/Location</u>
822	Aft Cargo Door

———— END OF TASK ————

TASK 38-11-03-000-802

4. Fill/Overflow Valve Control Cable Removal

(Figure 401)

A. References

<u>Reference</u>	<u>Title</u>
25-52-10-000-801	Cargo Floor Panel - Removal (P/B 401)
25-52-19-000-801	Aft Cargo Compartment Aft Bulkhead Liner - Removal (P/B 401)

B. Location Zones

<u>Zone</u>	<u>Area</u>
142	Aft Cargo Compartment - Right
822	Aft Cargo Door

C. Access Panels

<u>Number</u>	<u>Name/Location</u>
146AR	Water Service Door
822	Aft Cargo Door

D. Prepare for the Removal

SUBTASK 38-11-03-020-006

- (1) Open this access panel:

<u>Number</u>	<u>Name/Location</u>
146AR	Water Service Door

SUBTASK 38-11-03-010-010

- (2) Open this access panel:

<u>Number</u>	<u>Name/Location</u>
822	Aft Cargo Door

SUBTASK 38-11-03-010-011

- (3) Do this task: Aft Cargo Compartment Aft Bulkhead Liner - Removal, TASK 25-52-19-000-801.

SUBTASK 38-11-03-010-012

- (4) Do this task: Cargo Floor Panel - Removal, TASK 25-52-10-000-801.

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E. Control Cable Removal

SUBTASK 38-11-03-020-007

- (1) Remove the fill/overflow valve handle [22] and screw [21] for the control cable [13] at the water service panel.

SUBTASK 38-11-03-020-008

- (2) Remove the hardware that follows to disconnect the control cable [13]:
- (a) Remove the clamp [7], screw [8], washer [9], and spacer [10].
 - (b) Remove the clamps [7], screws [16], and washers [9].
 - (c) Remove the clamp [7], screw [14], and washer [9].
 - (d) Remove the clamp [7], screw [17], washer [9], and spacer [18]
 - (e) Remove the clamp [7], screw [14], and washer [9].
 - (f) Remove the clamp [7], screw [14], washers [9], and nut [15]
 - (g) Remove the clamp [7], screw [14], and washer [9].

SUBTASK 38-11-03-020-009

- (3) Remove the screws [19], washers [20], nuts [11], and washers [12] to remove the control cable [13] from water service panel.

SUBTASK 38-11-03-020-010

- (4) Remove the bolts [5] and washers [6] to disconnect the control cable [13] from the fill/overflow valve [23].

SUBTASK 38-11-03-020-011

- (5) Remove the control cable [13].

———— END OF TASK ————

TASK 38-11-03-400-802

5. Fill/Overflow Valve Control Cable Installation

(Figure 401)

A. References

Reference	Title
25-52-10-400-801	Cargo Floor Panel - Installation (P/B 401)
25-52-19-400-801	Aft Cargo Compartment Aft Bulkhead Liner - Installation (P/B 401)
38-42-00-800-802	Potable Water System - Activation (P/B 201)
51-31-00-390-801	Non-Removable Faying (Mated) Surface Seal Application (P/B 201)

B. Consumable Materials

Reference	Description	Specification
A00247	Sealant - Pressure And Environmental - Chromate Type	BMS5-95

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
13	Control cable	38-11-03-03-270	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420

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LOM ALL

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(Continued)

AMM Item	Description	AIPC Reference	AIPC Effectivity
13 (cont.)		38-11-03-03A-270	LOM 422-434, 437-447, 450-999

D. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
142	Aft Cargo Compartment - Right
822	Aft Cargo Door

E. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
146AR	Water Service Door
822	Aft Cargo Door

F. Control Cable Installation

SUBTASK 38-11-03-420-007

- (1) Pull the control cable [13] from the water service panel to put the control cable assembly in its position.

SUBTASK 38-11-03-420-008

- (2) Do these steps to attach the control cable [13] to the fill/overflow valve [23]:
 - (a) Make sure that the fill/overflow valve [23] is in the CLOSED position.
NOTE: Align the arrows to show that the valve is closed.
 - (b) Make sure that the handle [22] is in the CLOSED position.
 - (c) Install the bolts [5] and washers [6] to connect the control cable [13] to the fill/overflow valve [23].

SUBTASK 38-11-03-010-013

- (3) Remove the screw [21] and handle [22] from the handle end of the control cable [13].

SUBTASK 38-11-03-420-009

- (4) Install the hardware that follows to connect the control cable [13] to structure.
 - (a) Install the clamp [7], screw [8], washer [9], and spacer [10].
 - (b) Install the clamps [7], screws [16], and washers [9].
 - (c) Install the clamp [7], screw [14], and washer [9].
 - (d) Install the clamp [7], screw [17], washer [9], and spacer [18]
 - (e) Install the clamp [7], screw [14], and washer [9].
 - (f) Install the clamp [7], screw [14], washers [9], and nut [15].
 - (g) Install the clamp [7], screw [14], and washer [9].

SUBTASK 38-11-03-420-010

- (5) Get access to the water service panel.

SUBTASK 38-11-03-390-001

- (6) To apply sealant, A00247, as a fay surface seal to the inner area of the water service panel around the control cable [13], do this task: Non-Removable Faying (Mated) Surface Seal Application, TASK 51-31-00-390-801.



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SUBTASK 38-11-03-420-011

- (7) Install the screws [19], washers [20], nuts [11], and washers [12] to attach the control cable [13] to the water service panel.

SUBTASK 38-11-03-820-003

- (8) Make sure that the handle [22] is in the CLOSED position.

SUBTASK 38-11-03-420-012

- (9) Install the handle [22] and screw [21].

SUBTASK 38-11-03-410-016

- (10) Do this task: Cargo Floor Panel - Installation, TASK 25-52-10-400-801.

G. Control Cable Installation Test

SUBTASK 38-11-03-710-004

- (1) Make sure that the load you use to operate the control cable [13] is less than 50 in-lb (5.6 N·m).

SUBTASK 38-11-03-010-018

- (2) To get access to the P91 panel, open this access panel:

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

SUBTASK 38-11-03-860-010



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.

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

Power Distribution Panel Number 1, P91

Row Col Number Name

LOM 402, 404, 406

A 18 C00873 POT WATER COMPRESSOR

LOM ALL

C 9 C00138 WATER QTY IND

LOM 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-999

D 11 C00873 POT WATER COMPRESSOR

LOM ALL

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SUBTASK 38-11-03-410-020

- (4) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-11-03-710-005

- (5) Make sure that the potable water system is activated (TASK 38-42-00-800-802).

- (a) Make sure that the air compressor for the potable water system is on.

SUBTASK 38-11-03-610-001

- (6) Turn the handle [22] for the fill/overflow valve [23] to the OPEN position.

- (a) Make sure that the fill/overflow valve [23] is completely open.

H. Put the Airplane Back to Its Usual Condition

SUBTASK 38-11-03-410-009



WARNING

SEAL THE CARGO COMPARTMENT WITH THE LINING. OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN YOU INSTALL THE LINING. IF YOU INSTALL THE LINING INCORRECTLY, THE SMOKE CAN GO INTO THE PASSENGER COMPARTMENT DURING A FIRE. THIS CAN CAUSE INJURY TO PERSONNEL.

- (1) Do this task: Aft Cargo Compartment Aft Bulkhead Liner - Installation, TASK 25-52-19-400-801.

SUBTASK 38-11-03-410-010

- (2) Do this task: Cargo Floor Panel - Installation, TASK 25-52-10-400-801.

SUBTASK 38-11-03-410-011

- (3) Close this access panel:

Number Name/Location

822 Aft Cargo Door

SUBTASK 38-11-03-410-012

- (4) Close this access panel:

Number Name/Location

146AR Water Service Door

———— END OF TASK ————

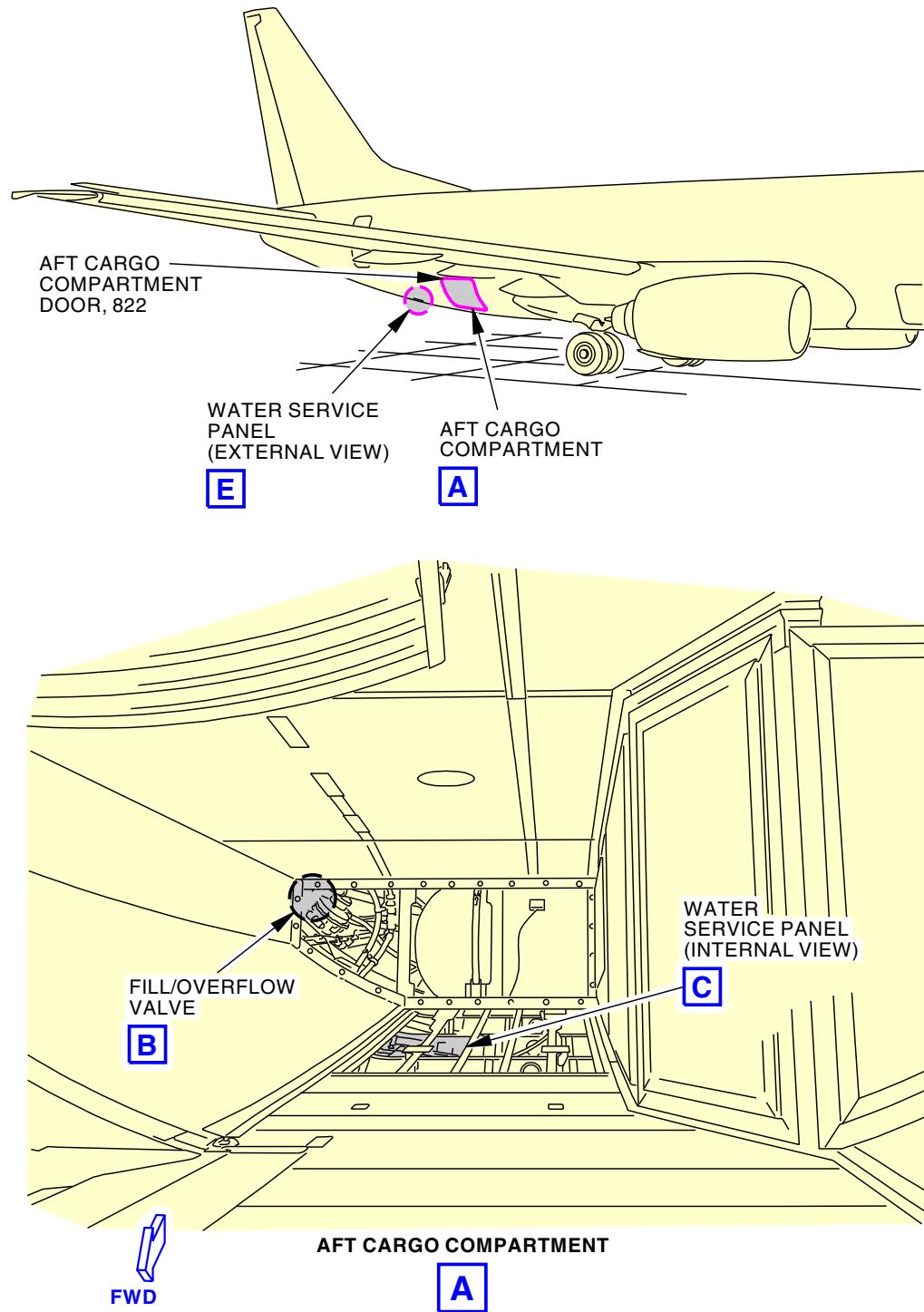
EFFECTIVITY
LOM ALL

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485659 S0000145209_V2

Fill/Overflow Valve and Control Cable Installation
Figure 401/38-11-03-990-802 (Sheet 1 of 6)

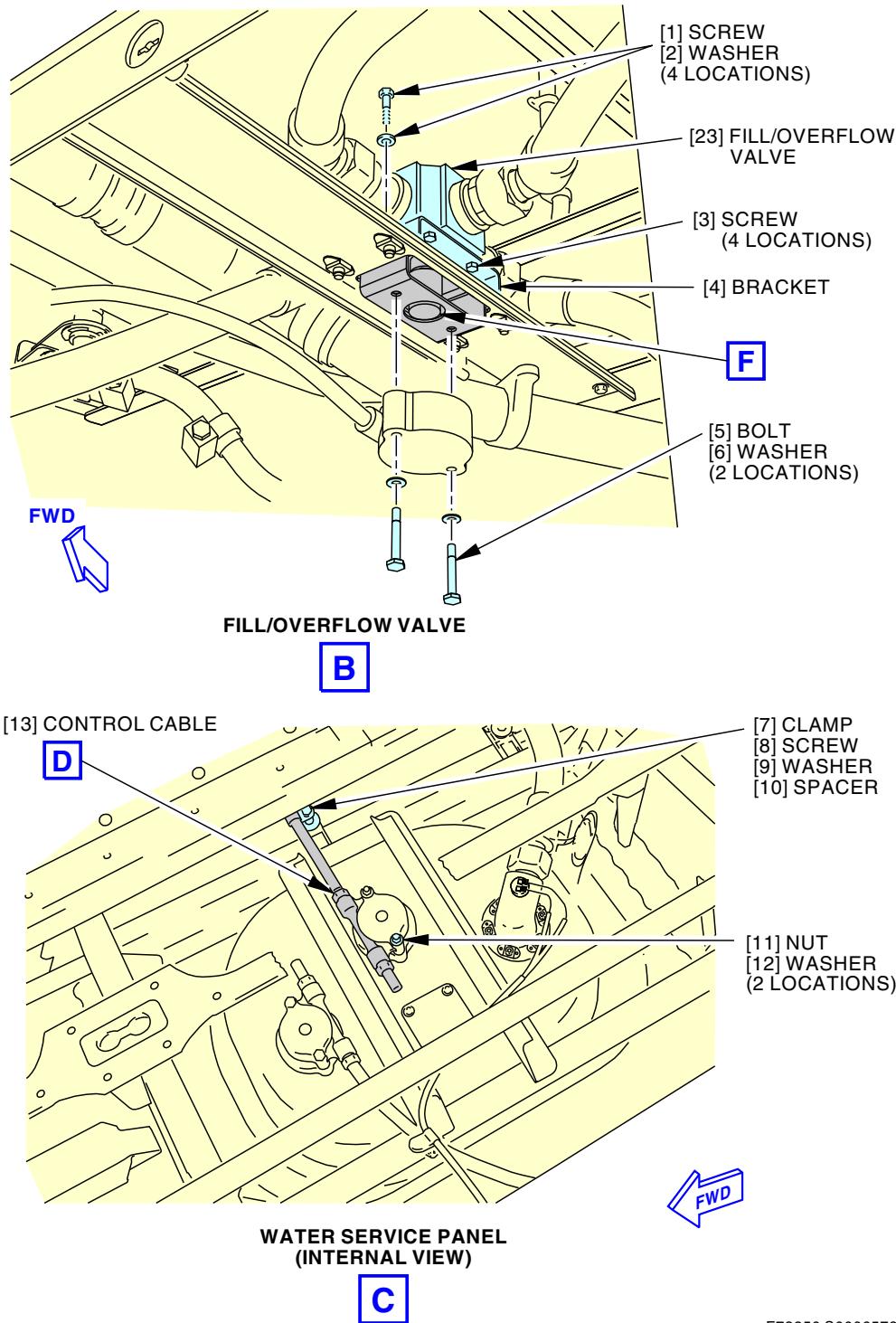
EFFECTIVITY
LOM ALL

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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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**Fill/Overflow Valve and Control Cable Installation
Figure 401/38-11-03-990-802 (Sheet 2 of 6)**

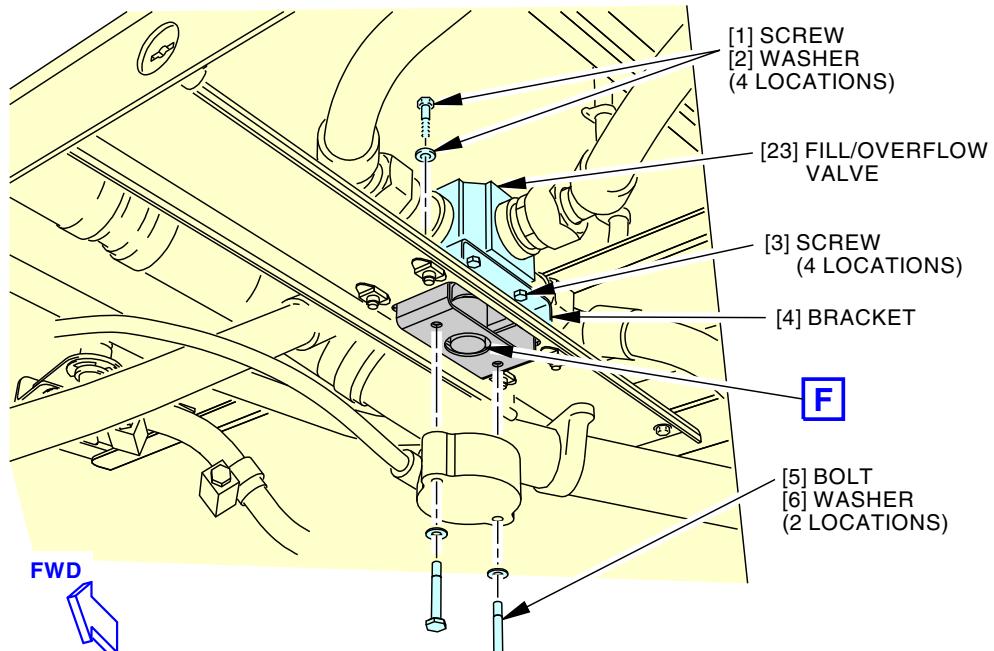
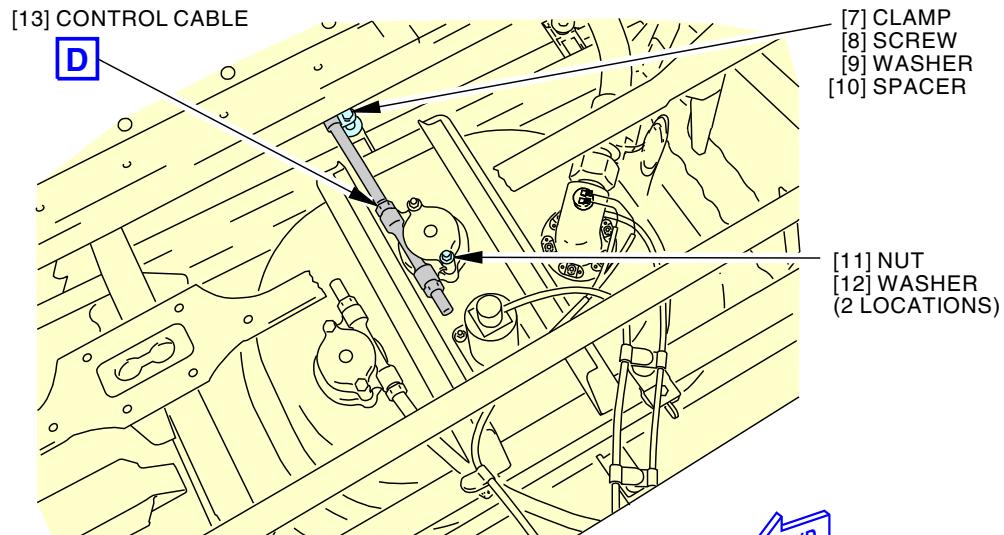
EFFECTIVITY
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
422-431, 433, 434, 437-447, 450-465

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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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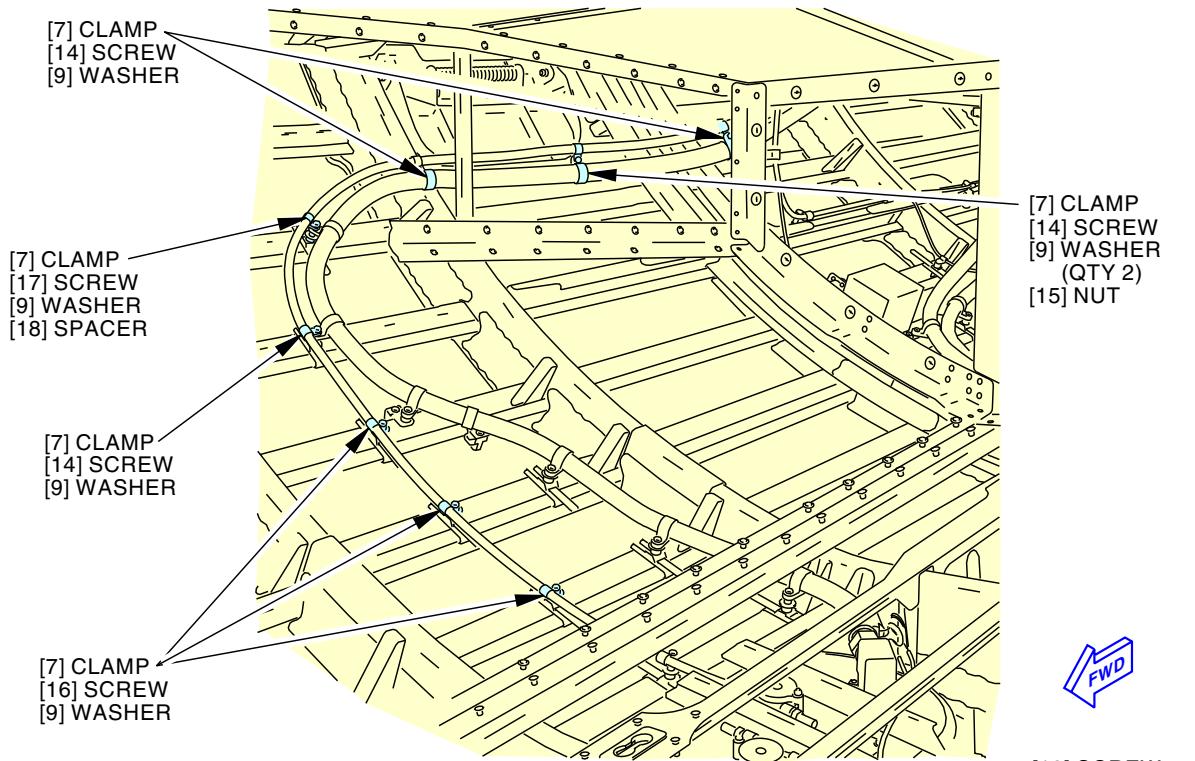
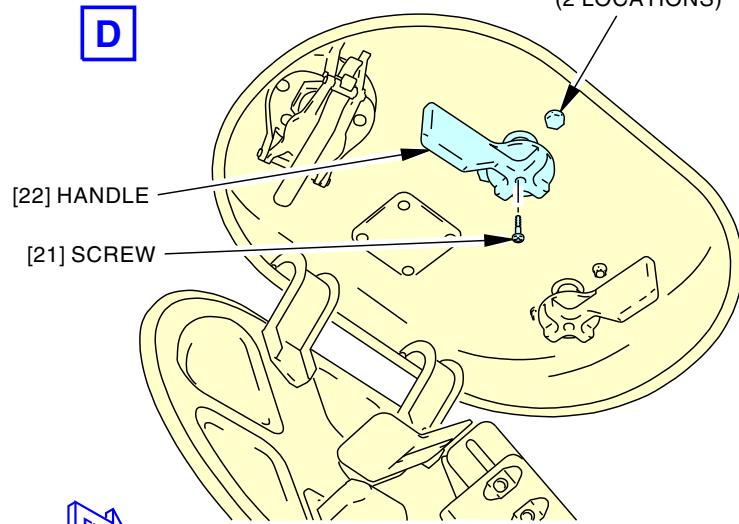
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FILL/OVERFLOW VALVE
B

**WATER SERVICE PANEL
(INTERNAL VIEW)**
C

3014789 S0000788234_V1

**Fill/Overflow Valve and Control Cable Installation
Figure 401/38-11-03-990-802 (Sheet 3 of 6)**

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 LOM 432, 466-999

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CONTROL CABLE INSTALLATION
D

**WATER SERVICE PANEL
(EXTERNAL VIEW)**
E

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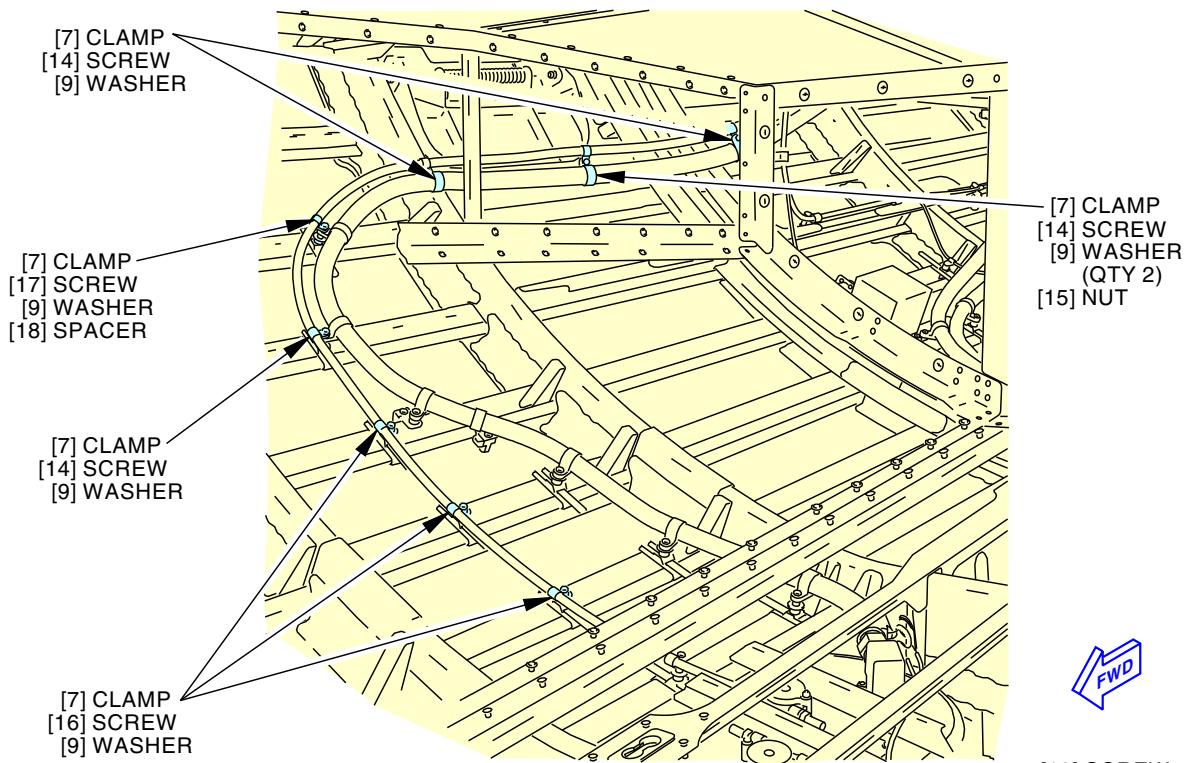
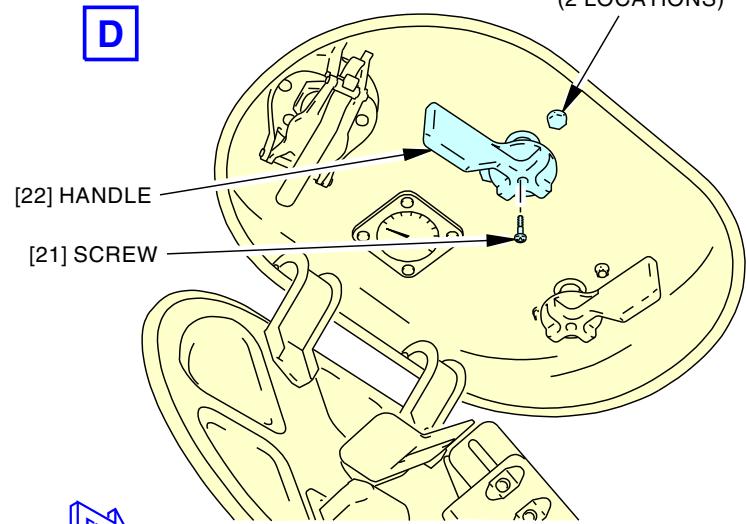
**Fill/Overflow Valve and Control Cable Installation
Figure 401/38-11-03-990-802 (Sheet 4 of 6)**

EFFECTIVITY
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
422-431, 433, 434, 437-447, 450-465

38-11-03

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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

CONTROL CABLE INSTALLATION
D

**WATER SERVICE PANEL
(EXTERNAL VIEW)**
E

3014218 S0000787842_V1

**Fill/Overflow Valve and Control Cable Installation
Figure 401/38-11-03-990-802 (Sheet 5 of 6)**

 EFFECTIVITY
 LOM 432, 466-999

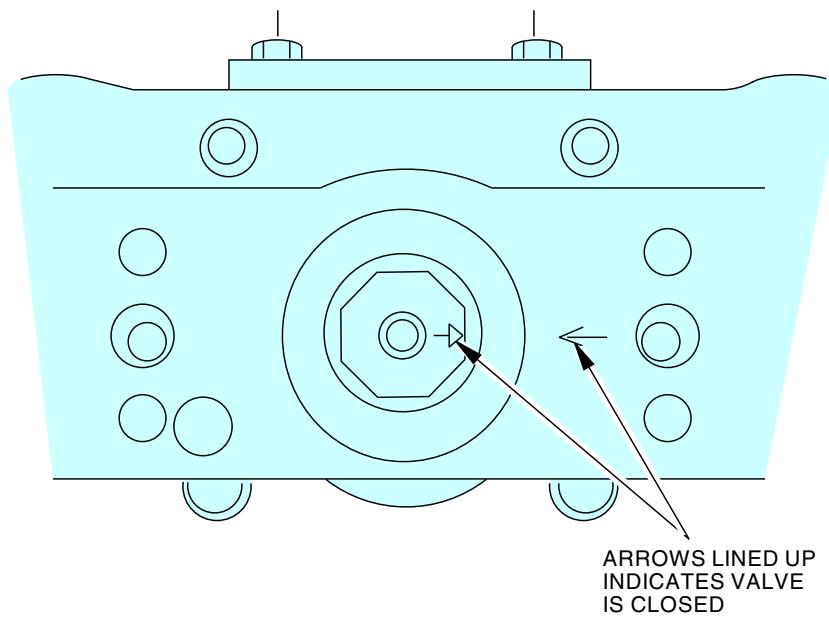
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D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details



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ARROWS LINED UP
INDICATES VALVE
IS CLOSED

FILL/OVERFLOW VALVE

F

480798 S0000138406_V2

Fill/Overflow Valve and Control Cable Installation
Figure 401/38-11-03-990-802 (Sheet 6 of 6)

EFFECTIVITY
LOM ALL

38-11-03

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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AIRCRAFT MAINTENANCE MANUAL
WATER FILTER - REMOVAL/INSTALLATION

1. General

- A. This procedure has one task:
 - (1) A replacement of the lavatory water filter.
- B. The water filter is in the lavatory below the sink.

TASK 38-11-04-960-801

2. Water Filter Replacement

(Figure 401)

A. References

Reference	Title
12-14-01-600-801	Potable Water System - Drain (P/B 301)
12-14-01-600-802	Potable Water Tank - Fill (P/B 301)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Prepare to Replace the Water Filter

SUBTASK 38-11-04-010-001

- (1) Get access to the lavatory.

SUBTASK 38-11-04-040-001

- (2) Turn the handle for the water shutoff valve to the OFF position.

NOTE: The water shutoff valve is below the sink in the lavatory.

SUBTASK 38-11-04-040-002

- (3) Open the faucet to release the pressure and to drain some of the water.

SUBTASK 38-11-04-680-001

- (4) Make sure the drain valve for the lavatory is in the OPEN TO DRAIN position.

NOTE: The drain valve is found below the sink in the lavatory.

SUBTASK 38-11-04-680-002

- (5) If it is necessary, do this task: Potable Water System - Drain, TASK 12-14-01-600-801.

SUBTASK 38-11-04-010-002

- (6) Open the cabinet door immediately below the sink.

D. Water Filter Replacement



MAKE SURE THAT THE HOUSING OF THE FILTER IS IN A POSITION TO LET YOU CLOSE THE CABINET DOOR. IF YOU DO NOT OBEY, THE CABINET DOOR WILL NOT CLOSE AND DAMAGE TO THE EQUIPMENT CAN OCCUR.

SUBTASK 38-11-04-680-003

- (1) Put a cloth below the water filter assembly to absorb the water that stays in the lines.

SUBTASK 38-11-04-010-003

- (2) Loosen the clamp [3] which keeps the top on the housing [5].

EFFECTIVITY
LOM 437, 438, 463

38-11-04



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SUBTASK 38-11-04-010-004

- (3) Lift the top of the housing [6] and then move it away from the housing [5].

SUBTASK 38-11-04-020-001

- (4) Remove the water filter element [2] from the housing [5].

SUBTASK 38-11-04-420-001

- (5) Put a new water filter element [2] into the housing [5].

SUBTASK 38-11-04-410-001

- (6) Make sure the gasket [4] between the top of the housing [6] and the housing [5] is not broken and is in its position.

- (a) Replace the gasket [4] between the top of the housing [6] and the housing [5] if it is broken.

SUBTASK 38-11-04-410-002

- (7) Put the top of the housing [6] in its position on the housing [5].

SUBTASK 38-11-04-420-002



CAUTION

MAKE SURE THE CLAMP BOLT ON THE WATER FILTER IS IN A POSITION TO LET YOU CLOSE THE CABINET DOOR. IF THE CLAMP BOLT IS IN AN INCORRECT POSITION, THE CABINET DOOR WILL NOT CLOSE.

- (8) Install the clamp [3].

SUBTASK 38-11-04-610-001

- (9) If it is necessary, do this task: Potable Water Tank - Fill, TASK 12-14-01-600-802.

SUBTASK 38-11-04-860-001



CAUTION

MAKE SURE THAT YOU CLOSE THE DRAIN VALVE TO PREVENT A FROZEN DRAIN LINE DURING OPERATION OF THE WATER SYSTEM. IF THE DRAIN LINE FREEZES DURING THE WATER SYSTEM OPERATION, THIS CAN CAUSE DAMAGE TO THE EQUIPMENT.

- (10) Move the drain valve in each lavatory to the CLOSED position.

SUBTASK 38-11-04-440-001

- (11) Turn the handle for the water shutoff valve to the ON position.

SUBTASK 38-11-04-790-002

- (12) Open the sink faucet until water comes out and there is no air in the line.

SUBTASK 38-11-04-790-003

- (13) Make sure there are no leaks.

SUBTASK 38-11-04-020-002

- (14) Remove the cloth from below the housing [5].

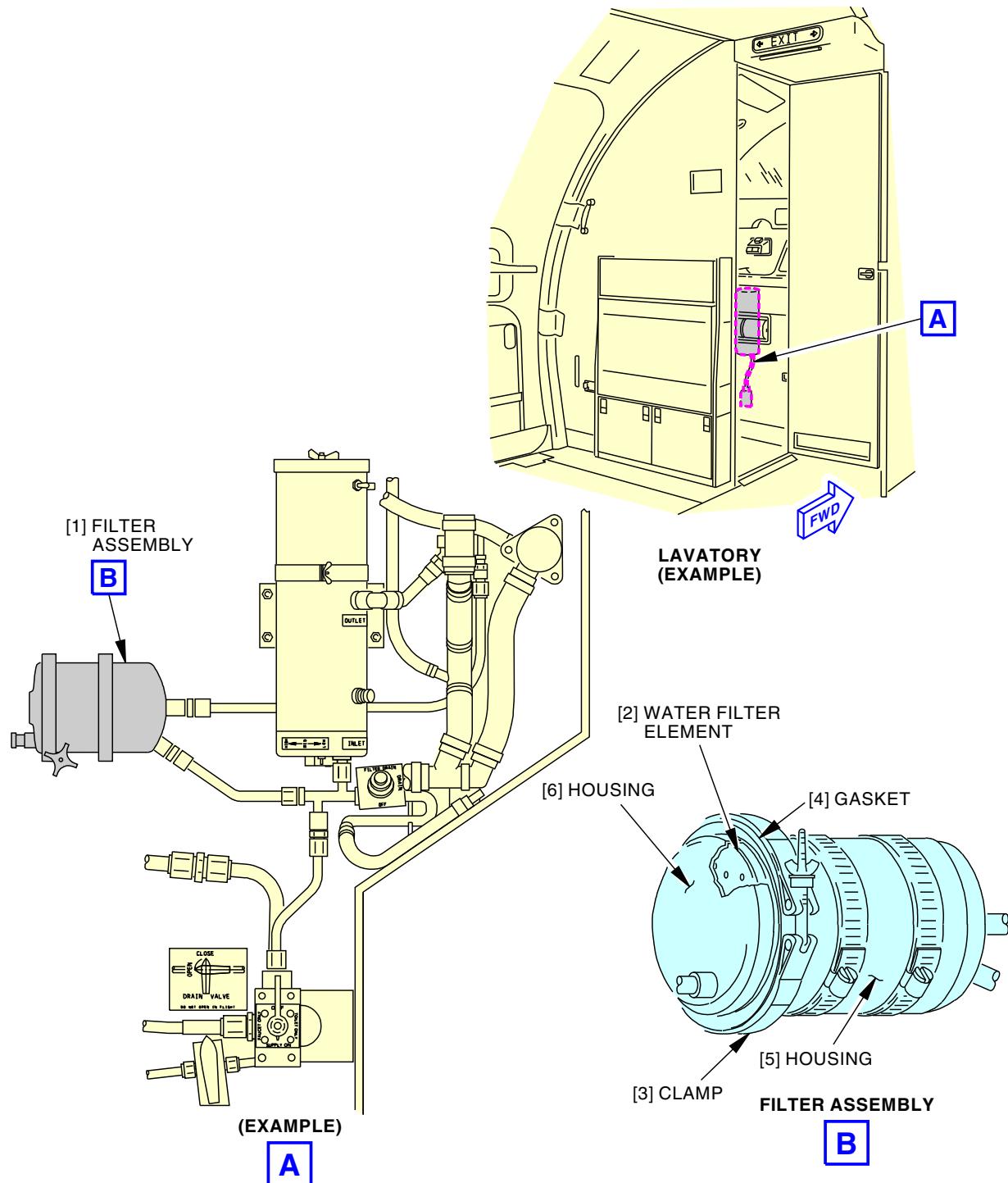
SUBTASK 38-11-04-410-003

- (15) Close the cabinet door below the sink.

———— END OF TASK ————

EFFECTIVITY
LOM 437, 438, 463

38-11-04



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**Water Filter Installation
Figure 401/38-11-04-990-801**

 EFFECTIVITY
LOM 437, 438, 463

38-11-04



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AIRCRAFT MAINTENANCE MANUAL

LAVATORY FAUCET - MAINTENANCE PRACTICES

1. General

A. This procedure has these tasks:

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-464

- (1) A removal of the faucet assembly.
- (2) An installation of the faucet assembly.
- (3) A removal of the drain valve assembly.
- (4) An installation of the drain valve assembly.
- (5) A replacement of the cartridge valve assembly.
- (6) An adjustment of the water faucet.
- (7) A drain valve adjustment.

LOM 465-999

- (8) A removal of the faucet assembly.
- (9) An installation of the faucet assembly.
- (10) A replacement of the cartridge valve assembly.
- (11) An adjustment of the water faucet.

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-464

TASK 38-11-05-000-805

2. Faucet Assembly Removal

(Figure 201)

A. Location Zones

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

200	Upper Half of Fuselage
-----	------------------------

B. Prepare for the Removal

SUBTASK 38-11-05-010-009

- (1) Get access to the lavatory module.

SUBTASK 38-11-05-010-010

- (2) Open the access door for the water system.

SUBTASK 38-11-05-860-008

- (3) Put the water heater switch [64] to the OFF position.

SUBTASK 38-11-05-860-009

- (4) Turn the water shutoff valve [65] to the OFF position.

NOTE: The water shutoff valve is below the sink in the lavatory.

SUBTASK 38-11-05-860-010

- (5) On the forward lavatories, open the drain valve [66].

NOTE: Only the forward lavatories have the drain valve.

SUBTASK 38-11-05-480-001

- (6) Put a container below the faucet to catch the water.

EFFECTIVITY
LOM ALL

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LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-464 (Continued)

C. Faucet Assembly Removal

SUBTASK 38-11-05-020-031

- (1) Disconnect the water lines [63] from the faucet assembly [56].

SUBTASK 38-11-05-020-032

- (2) Cap the water lines [63] to keep contamination out.

SUBTASK 38-11-05-020-033

- (3) Disconnect the spring [57] from the actuator rod [58].

SUBTASK 38-11-05-020-034

- (4) Loosen the screw [60] that attaches the drain valve link [54] and spacer [45] to the drain rod [51].

SUBTASK 38-11-05-020-035

- (5) Remove the nut [52], lockwasher [53], and mounting bracket [55].

SUBTASK 38-11-05-020-036

- (6) Remove the faucet assembly [56].

———— END OF TASK ————

TASK 38-11-05-400-805

3. Faucet Assembly Installation

(Figure 201)

A. Location Zones

Zone	Area
200	Upper Half of Fuselage

B. Faucet Assembly Installation

SUBTASK 38-11-05-420-019

- (1) Put the faucet assembly [56] in its position.

SUBTASK 38-11-05-420-020

- (2) Install the mounting bracket [55], lockwasher [53], and nut [52].

SUBTASK 38-11-05-420-021

- (3) Install the drain rod [51] into the spacer [45] and drain valve link [54].

SUBTASK 38-11-05-420-022

- (4) Attach the spring [57] to the actuator rod [58].

SUBTASK 38-11-05-820-001

- (5) Adjust the position of the actuator rod [58] to cause the drain rod [51] to be up when the drain valve assembly [59] is closed.

SUBTASK 38-11-05-420-023

- (6) Tighten the screw [60].

SUBTASK 38-11-05-710-006

- (7) Make sure that the drain valve [66] opens when you push the drain rod [51] down and closes when you release the drain rod [51].

- (a) If it is necessary, adjust the drain valve link [54] on the drain rod [51].

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LOM ALL

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LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-464 (Continued)

SUBTASK 38-11-05-420-024

- (8) Remove the caps from the water lines [63].

SUBTASK 38-11-05-420-025

- (9) Connect the water lines [63] to the faucet assembly [56].

C. Faucet Assembly Installation Test

SUBTASK 38-11-05-860-011

- (1) On the forward lavatories, close the drain valve [66].

NOTE: Only the forward lavatories have the drain valve.

SUBTASK 38-11-05-860-012

- (2) Turn the water shutoff valve [65] to the ON position.

NOTE: The water shutoff valve is below the sink in the lavatory.

SUBTASK 38-11-05-790-003

- (3) Make sure the faucet assembly [56] and water lines [63] do not have a leak.

D. Put the Airplane Back to Its Usual Condition

SUBTASK 38-11-05-860-013

- (1) Put the water heater switch [64] to the ON position.

SUBTASK 38-11-05-410-012

- (2) Install the waste container.

SUBTASK 38-11-05-410-013

- (3) Close the access door for the water system.

SUBTASK 38-11-05-410-014

- (4) Close the access to the lavatory module.

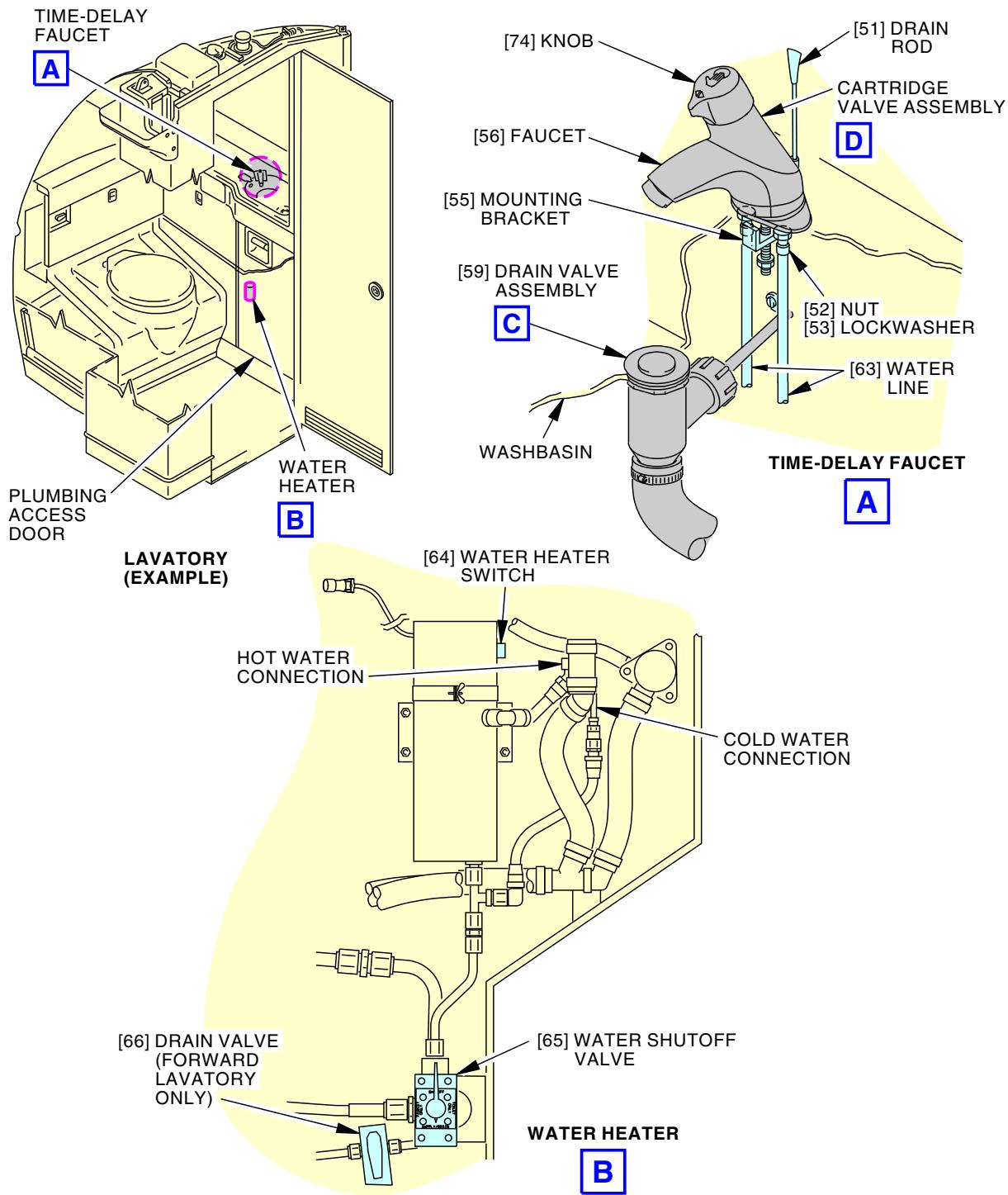
———— END OF TASK ————

EFFECTIVITY
LOM ALL

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D75525 S0000164310_V6

Lavatory Faucet and Drain Installation
Figure 201/38-11-05-990-803 (Sheet 1 of 3)

EFFECTIVITY
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
422-434, 437-447, 450-464

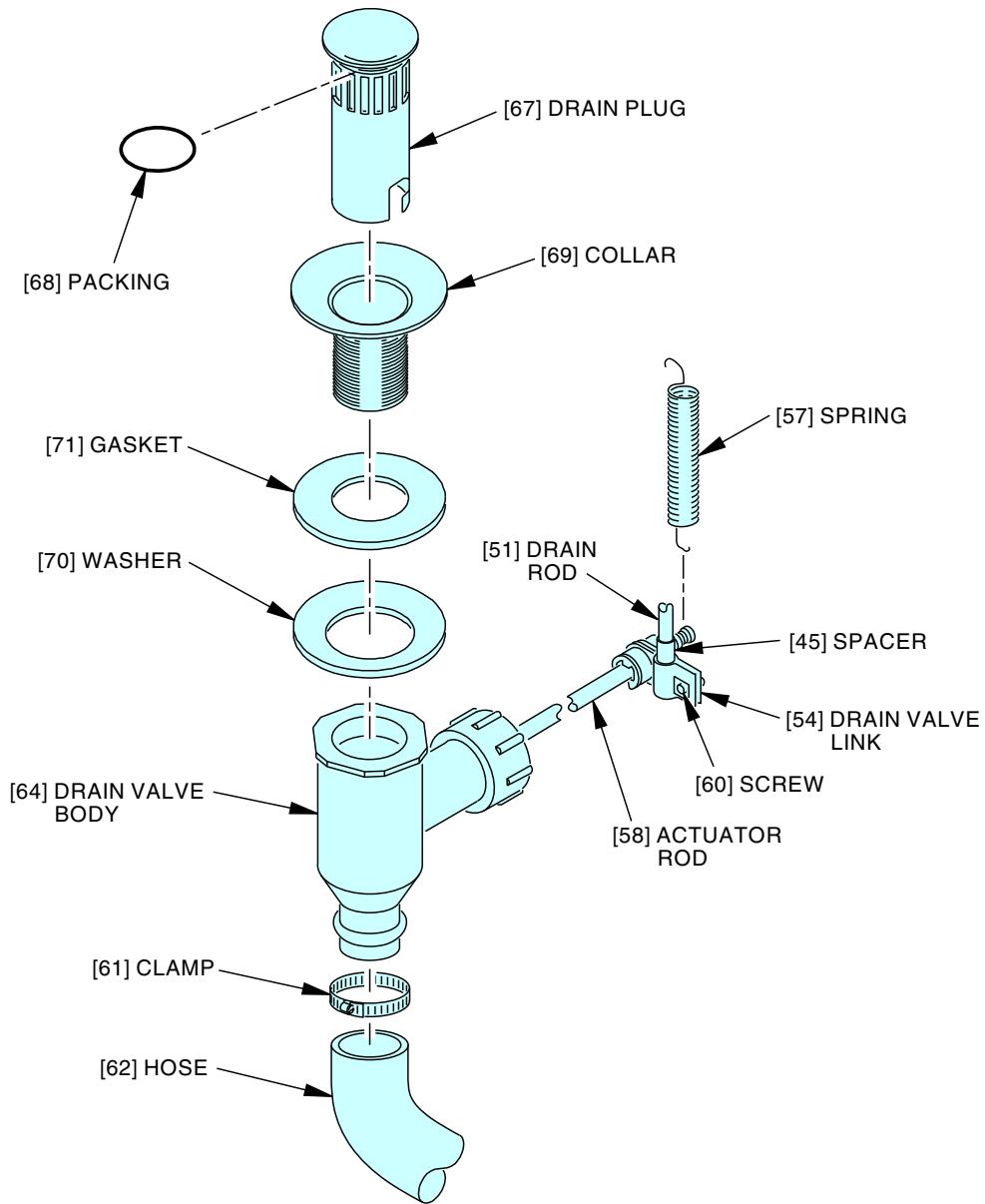
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ECCN 9E991 BOEING PROPRIETARY - See title page for details



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AIRCRAFT MAINTENANCE MANUAL



DRAIN VALVE ASSEMBLY

C

1327574 S0000234270_V3

Lavatory Faucet and Drain Installation
Figure 201/38-11-05-990-803 (Sheet 2 of 3)

EFFECTIVITY
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
422-434, 437-447, 450-464

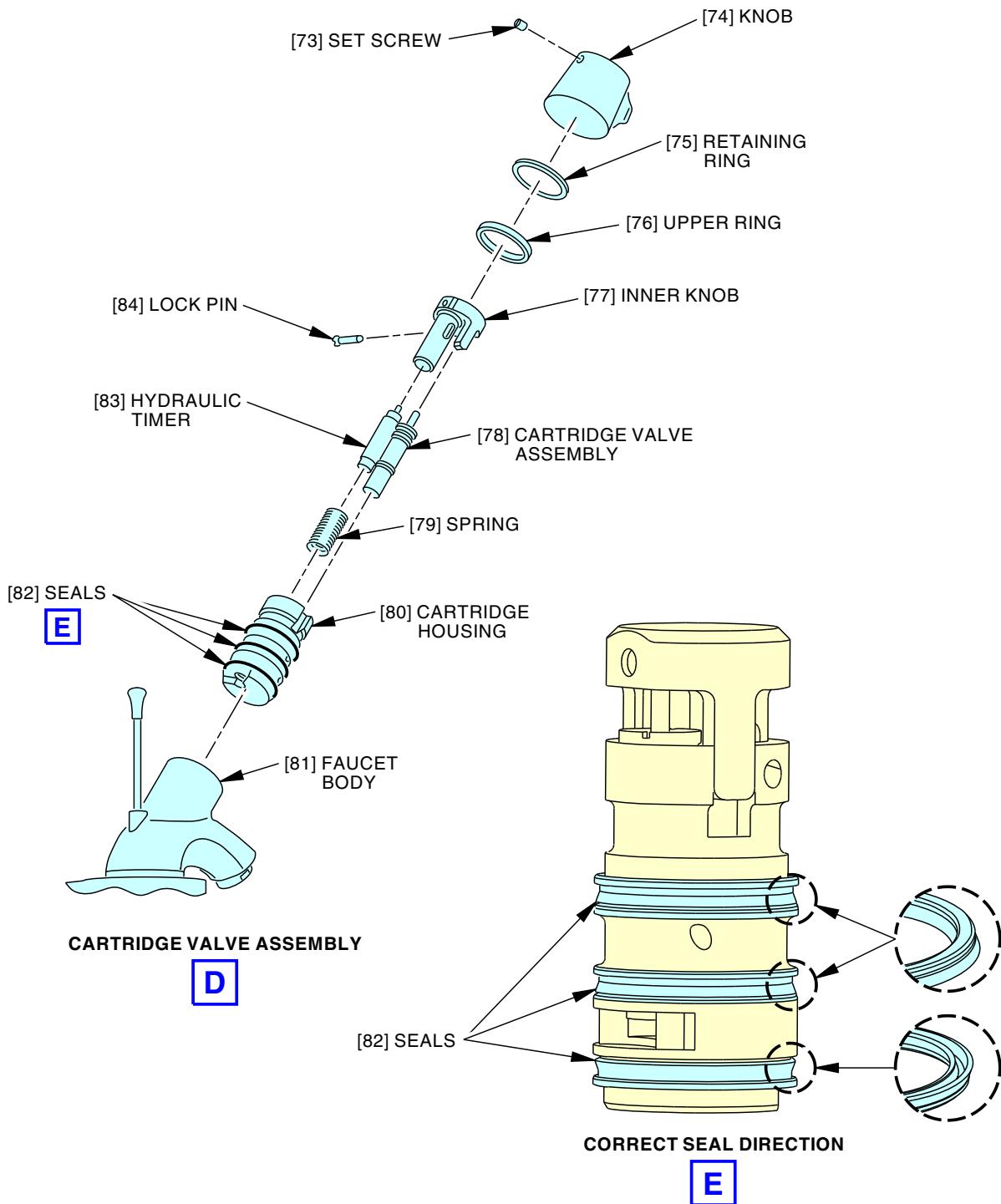
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1327921 S0000234269_V3

Lavatory Faucet and Drain Installation
Figure 201/38-11-05-990-803 (Sheet 3 of 3)

EFFECTIVITY
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
422-434, 437-447, 450-464

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LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-464 (Continued)

TASK 38-11-05-000-806

4. Drain Valve Assembly Removal

(Figure 201)

A. Location Zones

Zone	Area
200	Upper Half of Fuselage

B. Prepare for the Removal

SUBTASK 38-11-05-010-011

- (1) Get access to the lavatory module.

SUBTASK 38-11-05-860-014

- (2) Turn the water shutoff valve [65] to the OFF position.

NOTE: The water shutoff valve is below the sink in the lavatory.

SUBTASK 38-11-05-010-012

- (3) Open the access door for the water system.

C. Drain Valve Assembly Removal

SUBTASK 38-11-05-030-001

- (1) Disconnect the hose [62] and clamp [61] from the drain valve body [64].

SUBTASK 38-11-05-030-002

- (2) Loosen the screw [60] that attaches the drain valve link [54] and spacer [45] to the drain rod [51].

SUBTASK 38-11-05-030-003

- (3) Disconnect the drain valve link [54] and spacer [45] from the drain rod [51].

SUBTASK 38-11-05-030-004

- (4) Loosen and then remove the actuator rod [58] from the drain valve body [64].

SUBTASK 38-11-05-020-037

- (5) Remove the drain plug [67] from the collar [69].

SUBTASK 38-11-05-030-005

- (6) Disconnect the drain valve body [64] from the collar [69].

SUBTASK 38-11-05-020-038

- (7) Remove the collar [69], washer [70], and gasket [71] from the lavatory sink.

SUBTASK 38-11-05-869-001

- (8) Make sure you keep the loose parts of the drain valve [66].

———— END OF TASK ————

TASK 38-11-05-400-806

5. Drain Valve Assembly Installation

(Figure 201)

A. Location Zones

Zone	Area
200	Upper Half of Fuselage

— EFFECTIVITY —
LOM ALL

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LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-464 (Continued)

B. Drain Valve Assembly Installation

SUBTASK 38-11-05-420-027

- (1) Put the drain valve assembly [59] in its position.

NOTE: It is necessary to remove some of the parts of the drain valve assembly for the installation.

SUBTASK 38-11-05-430-006

- (2) Put the collar [69], washer [70], and gasket [71] in their position.

SUBTASK 38-11-05-430-007

- (3) Connect the drain valve body [64] to the collar [69].

SUBTASK 38-11-05-430-008

- (4) Put the packing [68], drain plug [67] and then install the drain plug [67] in the drain valve body [64].

SUBTASK 38-11-05-430-009

- (5) Install the actuator rod [58] into the drain plug [67] in the drain valve body [64].

- (a) Loosely install the actuator rod [58].

SUBTASK 38-11-05-430-010

- (6) Install the drain valve link [54] and spacer [45] to connect the actuator rod [58] to the drain rod [51].

SUBTASK 38-11-05-430-011

- (7) Tighten the screw [60] to hold the drain valve link [54] in its position and then tighten the nut.

SUBTASK 38-11-05-430-012

- (8) Connect the hose [62] and clamp [61] to the drain valve body [64].

C. Drain Valve Assembly Installation Test

SUBTASK 38-11-05-860-017

- (1) Turn the water shutoff valve [65] to the ON position.

SUBTASK 38-11-05-790-004

- (2) Push the knob to fill the lavatory sink approximately half full.

- (a) Make sure there is no leakage under the lavatory sink.

- (b) If the drain valve does not keep the water in the sink, do this task: Drain Valve Adjustment, TASK 38-11-05-820-806.

SUBTASK 38-11-05-790-005

- (3) Push down the drain rod [51] for the drain valve assembly [59] on the water faucet.

- (a) Make sure that the drain valve opens and that the operation of the lavatory sink drain is satisfactory.

- (b) If the length of time for the water to drain is not satisfactory, do this task: Drain Valve Adjustment, TASK 38-11-05-820-806.

D. Put the Airplane Back to Its Usual Condition

SUBTASK 38-11-05-410-017

- (1) Close the access door for the water system.

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LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-464 (Continued)

SUBTASK 38-11-05-400-001

- (2) Close the access to the lavatory module.

———— END OF TASK ————

TASK 38-11-05-960-803

6. Cartridge Valve Assembly - Replacement

(Figure 201)

A. General

- (1) This task is for the water cartridge for the water faucet.

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-7617	Tool - Insertion, Valve Cartridge Housing Part #: 72653-1 Supplier: 80477

C. Consumable Materials

Reference	Description	Specification
A50136	Compound - Thread Locking (Vibratite Formula #3)	
D50232	Compound - Release, Molykote 7 (Formerly Dow Corning 7)	

D. Location Zones

Zone	Area
200	Upper Half of Fuselage

E. Prepare to Replace the Cartridge Valve Assembly

SUBTASK 38-11-05-010-013

- (1) Get access to the lavatory module.
(a) Open the cabinet door behind the mirror.

SUBTASK 38-11-05-860-015

- (2) Turn the water shutoff valve [65] to the OFF position.
NOTE: The water shutoff valve is below the sink in the lavatory.

SUBTASK 38-11-05-010-017

- (3) On the forward lavatories, open the drain valve [66].
NOTE: Only the forward lavatories have the drain valve.

SUBTASK 38-11-05-616-001

- (4) Push the knob [74] to drain the water from the lines.

F. Cartridge Valve Assembly Removal

SUBTASK 38-11-05-030-006

- (1) Loosen the set screw [73] and remove the knob [74].

— EFFECTIVITY —
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LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-464 (Continued)

SUBTASK 38-11-05-030-007

- (2) Remove the retaining ring [75] and upper ring [76] from the groove in the faucet body [81].

SUBTASK 38-11-05-030-008

- (3) Remove the cartridge housing [80].

SUBTASK 38-11-05-030-009

- (4) Remove the lock pin [84] from the inner knob [77].

SUBTASK 38-11-05-030-010

- (5) Remove the inner knob [77] and pull out the cartridge valve assembly [78] out of the cartridge housing [80].

NOTE: The hydraulic timer is spring loaded and may also come out of the cartridge housing.

G. Cartridge Valve Assembly Installation

SUBTASK 38-11-05-420-026

- (1) Install the cartridge valve assembly [78] into the cartridge housing [80].

SUBTASK 38-11-05-430-001

- (2) If the hydraulic timer [83] has been removed, do these steps:

- (a) Remove old Vibratite, A50136.
- (b) Apply Vibratite, A50136, to the hydraulic timer [83].
- (c) Let Vibratite, A50136, dry for 10 minutes before installation.
- (d) If not installed, install the compression spring [79] between the cartridge housing [80] and hydraulic timer [83].
- (e) Install the hydraulic timer [83] into the cartridge housing [80].

SUBTASK 38-11-05-430-002

- (3) Install the inner knob [77] and lock pin [84].

SUBTASK 38-11-05-430-003

- (4) Lubricate the seals [82] with Molykote 7 release compound, D50232, and install cartridge assembly into the faucet body [81] using the insertion tool, SPL-7617.

NOTE: Make sure that each of the seals faces the correct direction.

SUBTASK 38-11-05-430-004

- (5) Install the upper ring [76], then install the retaining ring [75] in the groove in the faucet body [81].

SUBTASK 38-11-05-430-005

- (6) Install the knob [74] and set screw [73].

H. Cartridge Valve Assembly Installation Test

SUBTASK 38-11-05-410-019

- (1) On the forward lavatories, close the drain valve [66].

NOTE: Only the forward lavatories have the drain valve.

SUBTASK 38-11-05-860-016

- (2) Turn the water shutoff valve [65] to the ON position.

NOTE: The water shutoff valve is below the sink in the lavatory.

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38-11-05



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AIRCRAFT MAINTENANCE MANUAL

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-464 (Continued)

SUBTASK 38-11-05-710-007

- (3) Test the length of time the water flows.
 - (a) To test cold water flow, rotate the faucet knob to the cold side, depress and hold the knob down allowing water to flow for approximately ten seconds.
 - (b) After ten seconds allow the knob to return to the off position (no water flow).
 - (c) With the knob in the same position depress it to its full on position and allow it to return to the off position.
 - (d) If the length of time the water flows is not satisfactory, do this task: Water Faucet Adjustment, TASK 38-11-05-820-805.
 - (e) To test the hot water flow, rotate the faucet knob to the hot side and repeat the steps.

I. Put the Airplane Back to Its Usual Condition

SUBTASK 38-11-05-410-015

- (1) Close the cabinet door behind the mirror.

SUBTASK 38-11-05-410-016

- (2) Close the access to the lavatory module.

————— END OF TASK ————

TASK 38-11-05-820-805

7. Water Faucet Adjustment

(Figure 201)

A. Consumable Materials

Reference	Description	Specification
A50136	Compound - Thread Locking (Vibratite Formula #3)	

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Water Faucet Adjustment

SUBTASK 38-11-05-820-002

- (1) Get access to the lavatory module.

SUBTASK 38-11-05-820-003

- (2) Test and adjust the length of time the water flows:
 - (a) To test cold water flow, rotate the faucet knob to the cold side, depress and hold the knob down allowing water to flow for approximately ten seconds.
 - (b) To test hot water flow, rotate the faucet knob to the hot side, depress and hold the knob down allowing water to flow for approximately ten seconds.
 - (c) After ten seconds allow the knob to return to the off position (no water flow).
 - (d) With the knob in the same position depress it to its full on position and allow it to return to the off position.
 - (e) The flow time should be 5-9 seconds.

NOTE: Check the timing for both the hot and cold water before doing the adjustment steps.

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LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-464 (Continued)

- (f) If the length of time the water flows is not satisfactory, do the adjustment in 30 minutes or less, after Vibratite, A50136, is applied to the hydraulic timer [83].
 - 1) Loosen the set screw [73] and remove the knob [74].
 - 2) Remove the lock pin [84] and inner inner knob [77].
 - 3) If it is necessary, re-install the hydraulic timer [83], do these steps:
 - a) Remove the hydraulic timer [83].
 - b) Remove old Vibratite, A50136.
 - c) Apply new Vibratite, A50136, to the hydraulic timer [83].
 - d) Let Vibratite, A50136, dry for 10 minutes before installation.
 - e) If not installed, install the compression spring [79] between the cartridge housing [80] and hydraulic timer [83].
 - f) Install the hydraulic timer [83] into the cartridge housing [80].
 - 4) Turn the hydraulic timer [83] to adjust timing using an Allen-head wrench.
 - a) Turn the timer clock wise for slower timing.
 - b) Turn the timer counter clock wise for faster timing.

SUBTASK 38-11-05-820-004

- (3) Install the inner knob [77] and the lock pin [84].

SUBTASK 38-11-05-820-005

- (4) Install the knob [74] and tighten the set screw [73].

SUBTASK 38-11-05-820-006

- (5) Close the access to the lavatory module.

———— END OF TASK ————

TASK 38-11-05-820-806

8. Drain Valve Adjustment

(Figure 201)

A. Location Zones

Zone	Area
200	Upper Half of Fuselage

B. Drain Valve Adjustment

SUBTASK 38-11-05-010-014

- (1) Get access to the lavatory module.

SUBTASK 38-11-05-010-015

- (2) Open the access door for the water system.

SUBTASK 38-11-05-820-007

- (3) Loosen the screw [60] that attaches the drain valve link [54] and spacer [45] to drain rod [51].

SUBTASK 38-11-05-820-008

- (4) Push the end of the drain rod [51] up to make sure the drain plug [67] is fully engaged against the collar [69].

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SUBTASK 38-11-05-820-009

- (5) Tighten the screw [60] that attaches the drain valve link [54] and spacer [45] to the drain rod [51].

SUBTASK 38-11-05-820-010

- (6) Push the knob for the water supply to fill the lavatory sink approximately half full.
 - (a) Make sure the water stays in the lavatory sink.

SUBTASK 38-11-05-820-011

- (7) Push the drain rod [51] for the drain valve on the water faucet.
 - (a) Make sure the drain valve opens and that the operation of the lavatory sink drain is satisfactory.

SUBTASK 38-11-05-820-012

- (8) Close the access door for the water system.

SUBTASK 38-11-05-820-013

- (9) Close the access to the lavatory module.

————— END OF TASK ————

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TASK 38-11-05-000-808

9. Faucet Assembly Removal

(Figure 202)

A. Consumable Materials

Reference	Description	Specification
B00130	Alcohol - Isopropyl	TT-I-735
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	AMS3819 Class 1 Grade A or B Form 1 (Supersede BMS15-5 CL A)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Prepare for the Removal

SUBTASK 38-11-05-010-029

- (1) Get access to the lavatory module.

SUBTASK 38-11-05-010-030

- (2) Open the shroud and access door on the lower vanity.

SUBTASK 38-11-05-040-001

- (3) Put the water heat switch in the off position.

SUBTASK 38-11-05-860-033

- (4) Turn the water shutoff valve to the OFF position.

NOTE: The water shutoff valve is below the sink in the lavatory.

————— EFFECTIVITY ————
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SUBTASK 38-11-05-680-003

- (5) For the forward lavatories, open the drain valve.

NOTE: Only the forward lavatories have the drain valve.

D. Faucet Assembly Removal

SUBTASK 38-11-05-020-055

- (1) Remove the set screws [102] from the faucet assembly [101].

SUBTASK 38-11-05-020-056

- (2) Remove the faucet assembly [101] from the mounting plate [103].

- (a) Pull the faucet assembly [101] from the mounting plate [103] until the faucet disconnects from the water inlet fittings [104].

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SUBTASK 38-11-05-110-001

- (3) Clean the lavatory wall to remove the sealant residue.

- (a) Remove all sealant residue with cotton wiper, G00034, and alcohol, B00130.

NOTE: Faucet is sealed to lavatory wall with adhesive.

LOM 465-999

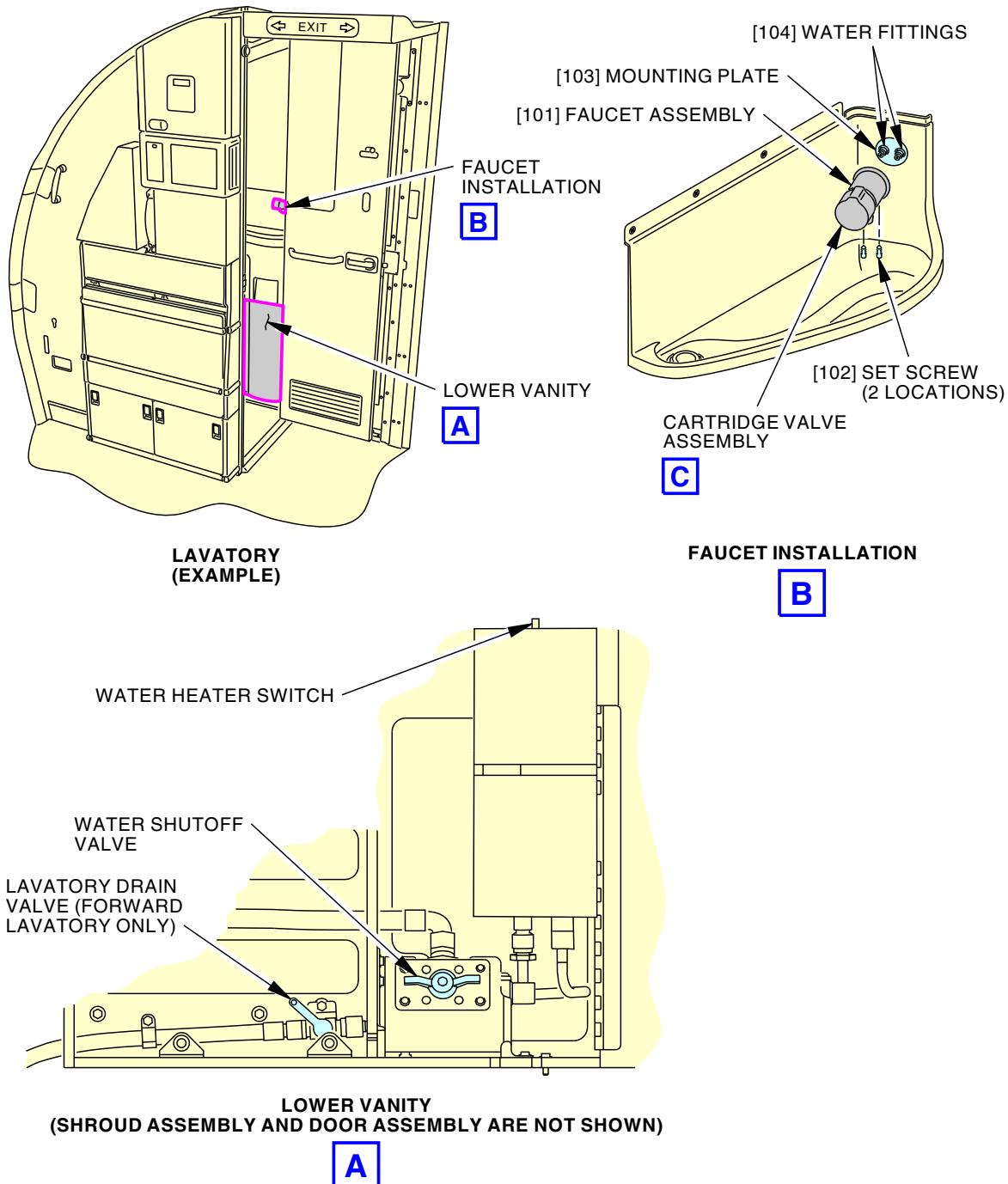
———— END OF TASK ————

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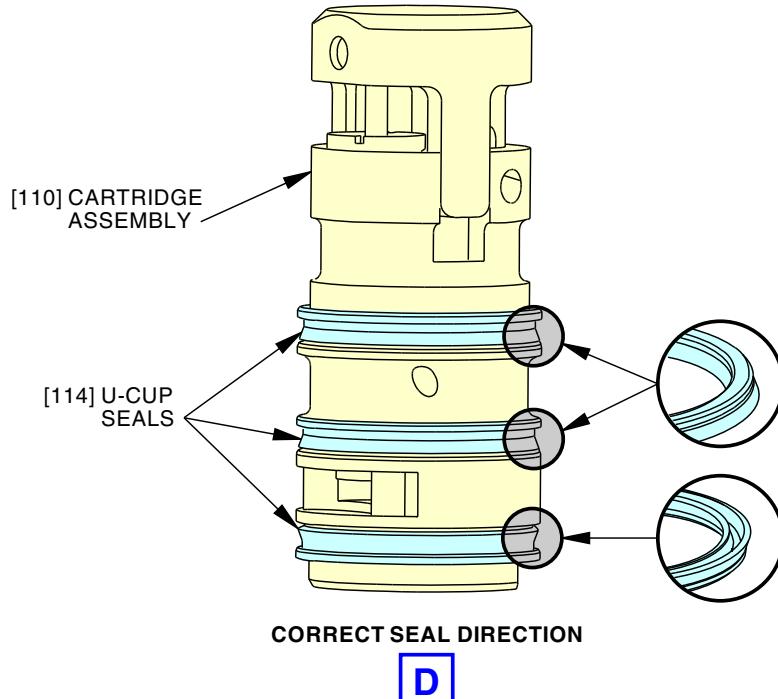
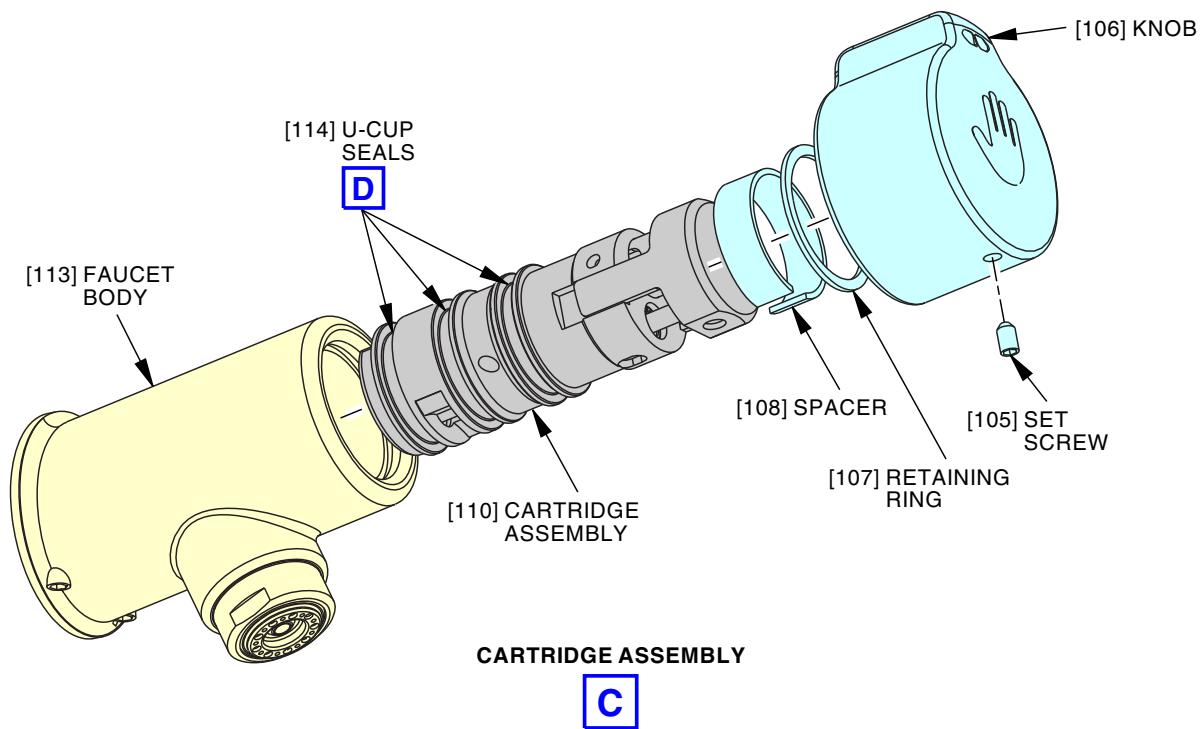


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Lavatory Faucet Installation
Figure 202/38-11-05-990-808 (Sheet 1 of 4)

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2424725 S0000555393_V2

Lavatory Faucet Installation
Figure 202/38-11-05-990-808 (Sheet 2 of 4)

EFFECTIVITY
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 AR9472-3W1D492

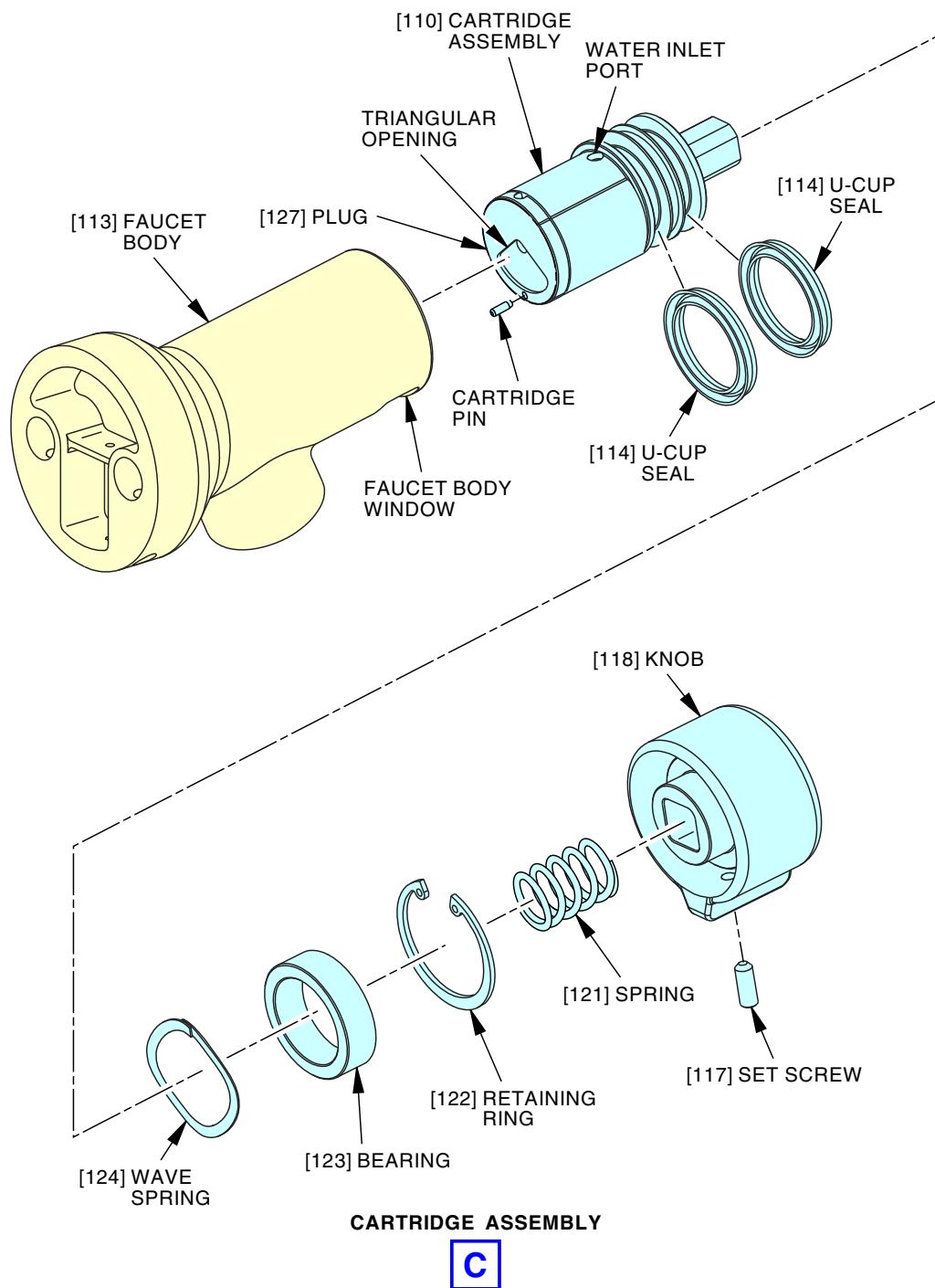
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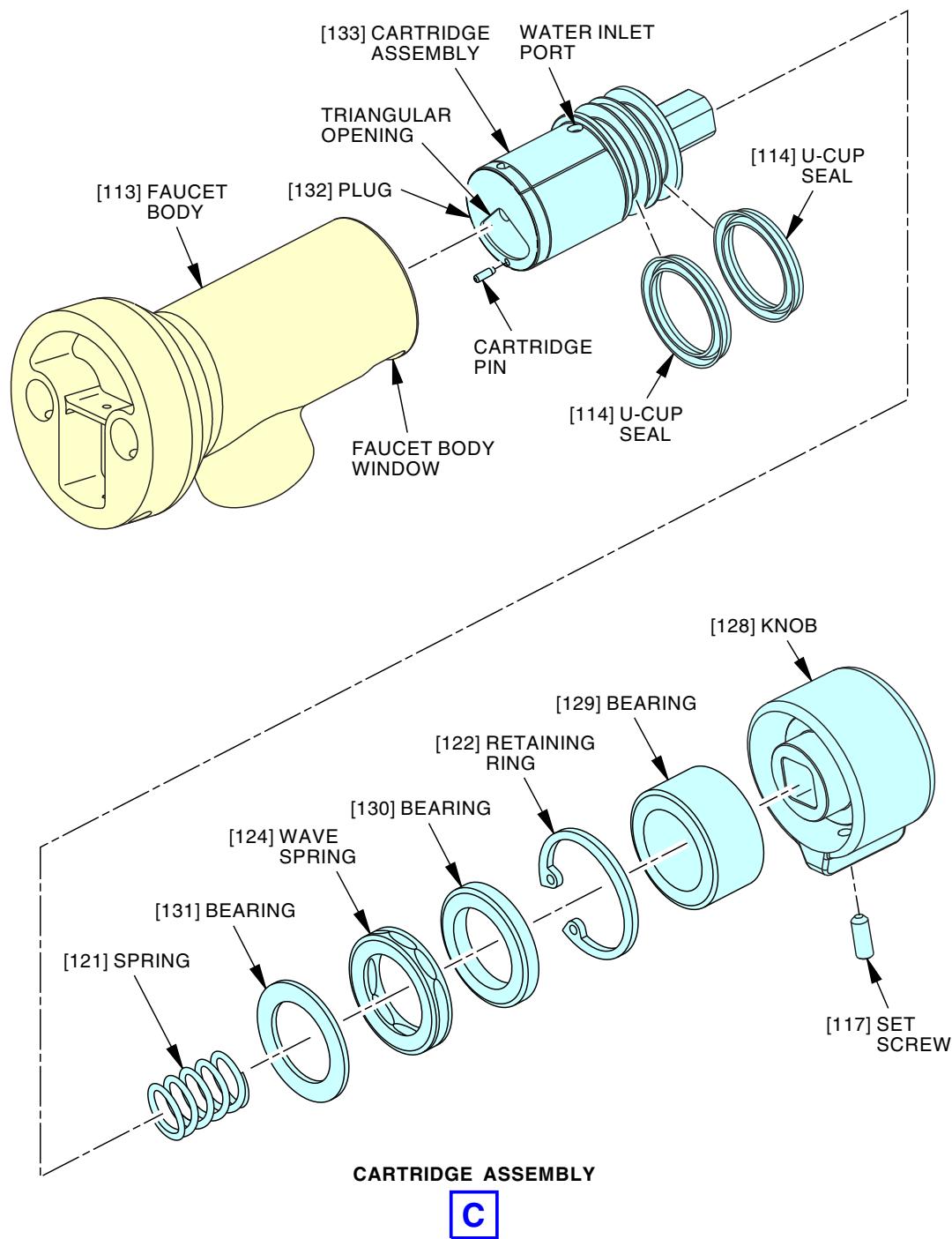
Lavatory Faucet Installation
Figure 202/38-11-05-990-808 (Sheet 3 of 4)

EFFECTIVITY
LOM 465-999; AIRPLANES WITH FAUCET P/N
SC4L500301-1 OR AR9472-3W1D492

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2895449 S0000690495_V1

Lavatory Faucet Installation
Figure 202/38-11-05-990-808 (Sheet 4 of 4)

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LOM 465-999 (Continued)

TASK 38-11-05-400-808

10. Faucet Assembly Installation

(Figure 202)

A. References

Reference	Title
51-31-00-390-804	Fillet Seal Application (P/B 201)

B. Consumable Materials

Reference	Description	Specification
A00635	Adhesive - RTV 108 Translucent Silicone Rubber RTV Paste, One-part	BAC5010 Type 60 Class A Grade 2 / MIL-A-46106 Type 1
A50414	Adhesive - Silicone Rubber - RTV 108 (Clear)	BAC5010 Type 60 Class A Grade 2 / MIL-A-46106 Type 1

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Faucet Assembly Installation

SUBTASK 38-11-05-420-041

- (1) Install the faucet assembly [101] on the mounting plate [103].
 - (a) Examine the O-rings on the water inlet fittings [104].
 - 1) Replace the O-rings if they are damaged.
 - (b) Push the faucet assembly [101] onto the water inlet fittings [104].
NOTE: Lubrication is not required.
 - (c) Install the set screws [102] in the faucet assembly [101] body.

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- (d) Torque the set screws [102] to 26 in-lb (2.9 N·m) - 33.5 in-lb (3.8 N·m).

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- (e) Apply a fillet seal to the joint between the faucet assembly [101] and the lavatory wall (TASK 51-31-00-390-804).
 - 1) Apply a RTV 108 adhesive, A50414, or RTV 108 adhesive, A00635.
 - 2) Let the sealant dry before return the lavatory to service.

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E. Faucet Assembly Installation Test

SUBTASK 38-11-05-860-034

- (1) For the forward lavatories, close the drain valve.
NOTE: Only the forward lavatories have the drain valve.

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SUBTASK 38-11-05-860-035

- (2) Turn the water shutoff valve to the ON position.

NOTE: The water shutoff valve is below the sink in the lavatory.

SUBTASK 38-11-05-790-007

- (3) Make sure that the faucet assembly and water lines do not have a leak.

F. Put the Airplane Back to Its Usual Condition

SUBTASK 38-11-05-440-001

- (1) Put the water heater switch in the ON position.

SUBTASK 38-11-05-410-029

- (2) Close the access door and shroud on the lower vanity.

SUBTASK 38-11-05-410-030

- (3) Close the access to the lavatory module.

———— END OF TASK ————

TASK 38-11-05-960-804

11. Cartridge Assembly - Replacement

(Figure 202), Figure 203)

A. 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-16537	Adapter-Installation Part #: T5776 Supplier: 80477

B. Consumable Materials

Reference	Description	Specification
A00648	Compound - Retaining - Loctite 242	ASTM D5363 Grp 3 Cl 2 Gd 1 (SUPERSEDES MIL-S-46163)
D00189	Compound - Molykote 111 (Formerly Dow Corning 111, Valve Sealant and Lubricant)	
D50011	Grease - Perfluoropolyether - Christo-lube MCG111	
D50232	Compound - Release, Molykote 7 (Formerly Dow Corning 7)	

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
110	Cartridge assembly	38-11-05-60B-125	LOM 465-999
114	U-cup seal	38-11-05-60B-130	LOM 465-999
		38-11-05-60C-155	LOM 465-999
133	Cartridge assembly	38-11-05-60C-150	LOM 465-999



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LOM 465-999 (Continued)

D. Location Zones

Zone Area

200 Upper Half of Fuselage

E. Prepare for the Cartridge Assembly Removal

SUBTASK 38-11-05-010-031

- (1) Get access to the lavatory module.

SUBTASK 38-11-05-010-032

- (2) Open the shroud and access door on the lower vanity.

SUBTASK 38-11-05-040-002

- (3) Put the water heater switch in the OFF position.

SUBTASK 38-11-05-860-036



CAUTION

DEPRESSURIZE WATER SYSTEM BEFORE DISCONNECTING ANY WATER LINES OR WATER SYSTEM COMPONENTS TO PREVENT WATER SPILLAGE.

- (4) Turn the water shutoff valve to the OFF position.

NOTE: The water shutoff valve is below the sink in the lavatory.

SUBTASK 38-11-05-680-004

- (5) For the forward lavatories, open the drain valve.

NOTE: Only the forward lavatories have the drain valve.

LOM 465-999; AIRPLANES WITH FAUCET P/N AR9472-3W1D492

F. Cartridge Assembly Removal



WARNING

WEAR SAFETY GOGGLES WHEN YOU REMOVE OR INSTALL COMPONENTS IN THE FAUCET. THE COMPONENTS ARE INSTALLED WITH COMPRESSION OR TENSION AND CAN RELEASE SUDDENLY. IF YOU DO NOT OBEY, INJURY TO PERSONNEL CAN OCCUR.

SUBTASK 38-11-05-020-057

- (1) Loosen the self-locking set screw [105] and remove the knob [106].

SUBTASK 38-11-05-020-058

- (2) Remove the retaining ring [107] and spacer [108] from the groove in the faucet body [113].

SUBTASK 38-11-05-020-059

- (3) Remove the cartridge assembly [110].

(a) Remove and discard the U-cup seals [114] from the groove in the cartridge assembly [110].

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LOM 465-999; AIRPLANES WITH FAUCET P/N SC4L500301-1 OR AR9472-3W1D492

G. Cartridge Assembly Removal



WARNING

WEAR SAFETY GOGGLES WHEN YOU REMOVE OR INSTALL COMPONENTS IN THE FAUCET. THE COMPONENTS ARE INSTALLED WITH COMPRESSION OR TENSION AND CAN RELEASE SUDDENLY. IF YOU DO NOT OBEY, INJURY TO PERSONNEL CAN OCCUR.

SUBTASK 38-11-05-020-074

- (1) Loosen the set screw [117] and remove the knob [118].

SUBTASK 38-11-05-020-075

- (2) Remove the spring [121] and retaining ring [122].

SUBTASK 38-11-05-020-076

- (3) Remove the cartridge assembly [110] with the bearing [123] and wave spring [124].
 - (a) Make sure that the plug [127] stays open on the cartridge assembly [110].
 - (b) Remove and discard the U-cup seals [114] from the groove in the cartridge assembly [110].

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H. Cartridge Assembly Removal



WARNING

WEAR SAFETY GOGGLES WHEN YOU REMOVE OR INSTALL COMPONENTS IN THE FAUCET. THE COMPONENTS ARE INSTALLED WITH COMPRESSION OR TENSION AND CAN RELEASE SUDDENLY. IF YOU DO NOT OBEY, INJURY TO PERSONNEL CAN OCCUR.

SUBTASK 38-11-05-020-077

- (1) Loosen the set screw [117] and remove the knob [128].

SUBTASK 38-11-05-020-078

- (2) Remove the spring [121] and retaining ring [122].

SUBTASK 38-11-05-020-079

- (3) Remove the cartridge assembly [133] with the bearing [130], wave spring [124], and bearing [131].
 - (a) Make sure that the plug [132] stays open on the cartridge assembly [133].
 - (b) Remove and discard the U-cup seals [114] from the groove in the cartridge assembly [133].

LOM 465-999; AIRPLANES WITH FAUCET P/N AR9472-3W1D492

I. Cartridge Assembly Installation



WARNING

WEAR SAFETY GOGGLES WHEN YOU REMOVE OR INSTALL COMPONENTS IN THE FAUCET. THE COMPONENTS ARE INSTALLED WITH COMPRESSION OR TENSION AND CAN RELEASE SUDDENLY. IF YOU DO NOT OBEY, INJURY TO PERSONNEL CAN OCCUR.

SUBTASK 38-11-05-410-033

- (1) Install new U-cup seals [114] onto the cartridge assembly [110].
 - (a) Lubricate the U-cup seals [114] with Molykote 7 release compound, D50232.
 - (b) Make sure that each of the U-cup seals [114] point in the correct direction.

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SUBTASK 38-11-05-420-045

- (2) Install the cartridge assembly [110] in the faucet body [113] (Figure 203).

NOTE: The installation adapter, COM-16537, is optional to use when you install the cartridge housing.

SUBTASK 38-11-05-420-046

- (3) Install the spacer [108].

- (a) Install the retaining ring [107] in the groove of the faucet body [113].

SUBTASK 38-11-05-420-047

- (4) Install the knob [106] with the self-locking set screw [105] on the faucet body [113].

(a) If the self-locking set screw [105] is damaged or wear, replace the set screw [105].

(b) Do not tighten the set screw [105] until you adjust the faucet timing.

SUBTASK 38-11-05-820-021

- (5) Do this task: Water Faucet Adjustment, TASK 38-11-05-820-808.

NOTE: The faucet will not work correctly if the faucet timing is not correct.

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J. Cartridge Assembly Installation



WARNING

WEAR SAFETY GOGGLES WHEN YOU REMOVE OR INSTALL COMPONENTS IN THE FAUCET. THE COMPONENTS ARE INSTALLED WITH COMPRESSION OR TENSION AND CAN RELEASE SUDDENLY. IF YOU DO NOT OBEY, INJURY TO PERSONNEL CAN OCCUR.

SUBTASK 38-11-05-100-003

- (1) Clean the faucet body [113] bore with a clean, lint free cloth to remove the contamination.

SUBTASK 38-11-05-420-083

- (2) Make sure that the cartridge pin is in its position before installation of the cartridge assembly [110].

(a) If the pin is loose, use the Molykote 111 Compound, D00189, to hold the pin in its position during installation.

SUBTASK 38-11-05-390-001

- (3) Apply thin layer of the Molykote 111 Compound, D00189, to the two new U-cup seals [114].

SUBTASK 38-11-05-390-002

- (4) Install the two new U-cup seals [114] onto the cartridge assembly [110].

SUBTASK 38-11-05-420-084

- (5) Point the cartridge assembly [110] with the water inlet port up and the triangular opening on plug face down.

NOTE: The faucet temperature will not work correctly if the cartridge assembly is not in the correct position.

SUBTASK 38-11-05-420-085

- (6) Insert the cartridge assembly [110] into the faucet body [113] as follows:

(a) Carefully push the cartridge assembly [110] to let the U-cup seals [114] to move into the faucet body [113].

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LOM 465-999; AIRPLANES WITH FAUCET P/N SC4L500301-1 OR AR9472-3W1D492 (Continued)

- 1) Use a probe or other thin object to move the u-cup seals past the faucet body window.
- 2) Use a wipe movement, and only sufficient pressure to push the u-cup seals in to the u-cups.
- (b) Carefully move the cartridge assembly [110] to the bottom of the faucet body [113] bore.
- (c) Make sure that the cartridge assembly [110] stays in the correct position.

SUBTASK 38-11-05-420-086

- (7) Put the wave spring [124] and bearing [123] into the faucet body [113].

SUBTASK 38-11-05-420-082

- (8) Use the retaining ring tool to install the retaining ring [122] into the faucet body [113].
 - (a) Move the retaining ring [122] to the bearing [123].
 - (b) Make sure that the retaining ring [122] engages in the faucet body groove.

SUBTASK 38-11-05-420-081

- (9) Install the spring [121] in the faucet body [113].

SUBTASK 38-11-05-420-080

- (10) Install the knob [118] on the faucet body [113].

SUBTASK 38-11-05-420-078

- (11) Install the set screw [117].
 - (a) Do not tighten the set screw [117] until you adjust the faucet timing.

SUBTASK 38-11-05-820-020

- (12) Do this task: Water Faucet Adjustment, TASK 38-11-05-820-808.

NOTE: The faucet will not work correctly if the faucet timing is not correct.

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K. Cartridge Assembly Installation



WARNING

WEAR SAFETY GOGGLES WHEN YOU REMOVE OR INSTALL COMPONENTS IN THE FAUCET. THE COMPONENTS ARE INSTALLED WITH COMPRESSION OR TENSION AND CAN RELEASE SUDDENLY. IF YOU DO NOT OBEY, INJURY TO PERSONNEL CAN OCCUR.

SUBTASK 38-11-05-100-004

- (1) Clean the faucet body [113] bore with a clean, lint free cloth.

SUBTASK 38-11-05-420-096

- (2) Make sure that the cartridge pin is in its position before installation of the cartridge assembly [133].
 - (a) If the pin is loose, use the Christo-lube MCG111 grease, D50011, to hold the pin in its position during installation.

SUBTASK 38-11-05-390-003

- (3) Apply thin layer of the Christo-lube MCG111 grease, D50011, to the two new U-cup seals [114].

SUBTASK 38-11-05-390-004

- (4) Install the two U-cup seals [114] onto the cartridge assembly [133].

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SUBTASK 38-11-05-420-097

- (5) Point the new cartridge assembly [133] with the water inlet port up and the triangular opening on plug face down.

NOTE: The faucet temperature will not work correctly if the cartridge assembly is not in the correct position.

SUBTASK 38-11-05-420-098

- (6) Insert the cartridge assembly [133] into the faucet body [113] as follows:

- (a) Carefully push the cartridge assembly [133] to let the U-cup seals [114] to move into the faucet body [113].

NOTE: Use a probe or other thin object to move the u-cup seals past the faucet body window. Use a wiping movement, and only sufficient pressure to push the u-cup seals in to the u-cups.

- (b) Carefully move the cartridge assembly [133] to the bottom of the faucet body [113] bore.

- (c) Make sure that the cartridge assembly [133] stays in the correct position.

SUBTASK 38-11-05-420-099

- (7) Put the bearing [131], wave spring [124], and bearing [130] into the faucet body [113].

SUBTASK 38-11-05-420-100

- (8) Use the retaining ring tool to install the retaining ring [122] into the faucet body [113].

- (a) Move the retaining ring [122] to the bearing [129].

- (b) Make sure that the retaining ring [122] engages in the faucet body groove.

SUBTASK 38-11-05-420-101

- (9) Install the spring [121] in the cartridge assembly [133].

SUBTASK 38-11-05-420-102

- (10) Install the knob [128] on the faucet body [113].

SUBTASK 38-11-05-420-103

- (11) Apply the Loctite 242 compound, A00648, to the set screw [117].

SUBTASK 38-11-05-420-104

- (12) Install the set screw [117].

- (a) Do not tighten the set screw [117] until you adjust the faucet timing.

SUBTASK 38-11-05-820-024

- (13) Do this task: Water Faucet Adjustment, TASK 38-11-05-820-808.

NOTE: The faucet will not work correctly if the faucet timing is not correct.

LOM 465-999

L. Faucet Assembly Installation Test

SUBTASK 38-11-05-860-037

- (1) For the forward lavatories, close the drain valve.

NOTE: Only the forward lavatories have the drain valve.

SUBTASK 38-11-05-860-038

- (2) Turn the water shutoff valve to the ON position.

NOTE: The water shutoff valve is below the sink in the lavatory.

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LOM 465-999 (Continued)

SUBTASK 38-11-05-790-008

- (3) Make sure that the faucet assembly does not have a leak.

M. Put the Airplane Back to Its Usual Condition

SUBTASK 38-11-05-440-002

- (1) Put the water heater switch in the ON position.

SUBTASK 38-11-05-410-031

- (2) Close the shroud and access door on the lower vanity.

SUBTASK 38-11-05-410-032

- (3) Close the access to the lavatory module.

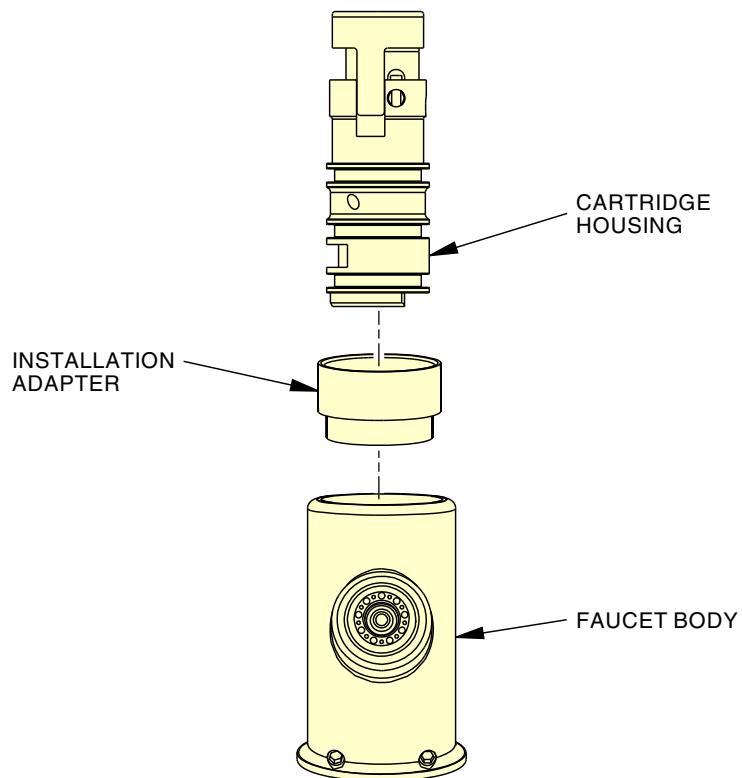
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EFFECTIVITY
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Positioning of Installation Adapter
Figure 203/38-11-05-990-810

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TASK 38-11-05-820-808

12. Water Faucet Adjustment

(Figure 204)

A. General

- (1) This task gives the instructions to adjust the lavatory faucet.

B. References

Reference	Title
12-14-01-600-802	Potable Water Tank - Fill (P/B 301)
25-40-00-440-802	Water Heater Power - Activation (P/B 201)

C. Tools/Equipment

Reference	Description
STD-836	Stopwatch
STD-1330	Wrench - Hexdrive, Allen Wrench

D. Consumable Materials

Reference	Description	Specification
A00648	Compound - Retaining - Loctite 242	ASTM D5363 Grp 3 Cl 2 Gd 1 (SUPERSEDES MIL-S-46163)
A50212	Compound - Threadlocking, Low-strength - Loctite 222MS	MIL-S-46163A, ASTM D5363

E. Location Zones

Zone	Area
200	Upper Half of Fuselage

F. Prepare for the Adjustment

SUBTASK 38-11-05-860-045

- (1) Before the hot water timing test, make sure that the water is hot (heated by the water heater), refer to Water Heater Power - Activation, TASK 25-40-00-440-802.

SUBTASK 38-11-05-860-046

- (2) To turn on the water supply to the faucet, do this task: (Potable Water Tank - Fill, TASK 12-14-01-600-802).

LOM 465-999; AIRPLANES WITH FAUCET P/N AR9472-3W1D492

G. Water Faucet Adjustment



WARNING

WEAR SAFETY GOGGLES WHEN YOU REMOVE OR INSTALL
COMPONENTS IN THE FAUCET. THE COMPONENTS ARE INSTALLED WITH
COMPRESSION OR TENSION AND CAN RELEASE SUDDENLY. IF YOU DO
NOT OBEY, INJURY TO PERSONNEL CAN OCCUR.

SUBTASK 38-11-05-010-034

- (1) Get access to the lavatory module.

SUBTASK 38-11-05-710-008

- (2) To measure the length of time that the water flows, do these steps:

- (a) To measure cold water flow, do these steps:

EFFECTIVITY
LOM ALL

38-11-05



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

LOM 465-999; AIRPLANES WITH FAUCET P/N AR9472-3W1D492 (Continued)

- 1) Turn the faucet knob [106] to the cold side.
- 2) Push and hold the knob [106] down to let water flow for approximately ten seconds.
- (b) To measure hot water flow, do these steps:
 - 1) Turn the faucet knob [106] to the hot side.
 - 2) Push and hold the knob [106] down to let water flow for approximately ten seconds.
- (c) After ten seconds, let the knob [106] go back to the off position (no water flow).
- (d) With the knob [106] in the same position, push it to its full on position and then let it go back to the off position.
 - 1) Use a stopwatch, STD-836, to measure the time that it takes for the knob [106] to go back to the off position.
 - 2) Repeat this step two more times.
 - 3) Record the times and calculate the average flow time.
- (e) The average flow time should be 4-8 seconds.
 - 1) Measure the flow time for the hot water and cold water before the adjustment steps.

SUBTASK 38-11-05-820-022



DEPRESSURIZE WATER SYSTEM BEFORE DISCONNECTING ANY WATER LINES OR WATER SYSTEM COMPONENTS TO PREVENT WATER SPILLAGE.

- (3) If the length of time that the water flows is not satisfactory, do these steps:
 - (a) Remove the self-locking set screw [105] and faucet knob [106].
 - (b) Remove the retaining ring [107], spacer [108], and lock pin [116].
 - (c) Remove the inner knob [109] from the cartridge assembly [110].
 - (d) Use a hexdrive allen wrench, STD-1330, to turn the hydraulic timer [115] to adjust the timing.
 - 1) Turn the timer clockwise for slower timing.
 - 2) Turn the timer counterclockwise for faster timing.

SUBTASK 38-11-05-420-087

- (4) Install the inner knob [109] on the cartridge assembly [110].

SUBTASK 38-11-05-420-088

- (5) Install the lock pin [116], spacer [108], and retaining ring [107].

SUBTASK 38-11-05-420-091

- (6) Install the knob [106] with the self-locking set screw [105].
 - (a) If the self-locking set screw [105] is damaged or wear, replace the set screw [105].
 - (b) Tighten the self-locking set screw [105].

SUBTASK 38-11-05-420-092

- (7) Push the faucet knob to start water flow.
 - (a) Repeat the test steps to measure the average flow time.
 - (b) If the average flow time is not in the required range, do the adjustment steps again.

EFFECTIVITY
LOM ALL

38-11-05



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

LOM 465-999; AIRPLANES WITH FAUCET P/N AR9472-3W1D492 (Continued)

SUBTASK 38-11-05-410-034

- (8) Close the access to the lavatory module.

LOM 465-999; AIRPLANES WITH FAUCET P/N SC4L500301-1 OR AR9472-3W1D492

H. Water Faucet Adjustment



WARNING

WEAR SAFETY GOGGLES WHEN YOU REMOVE OR INSTALL COMPONENTS IN THE FAUCET. THE COMPONENTS ARE INSTALLED WITH COMPRESSION OR TENSION AND CAN RELEASE SUDDENLY. IF YOU DO NOT OBEY, INJURY TO PERSONNEL CAN OCCUR.

SUBTASK 38-11-05-010-035

- (1) Get access to the lavatory module.

SUBTASK 38-11-05-710-009

- (2) To measure the length of time that the water flows, do these steps:
- Turn the faucet to the middle position (halfway between hot and cold).
 - Push the knob [118] in fully and then release it.
 - Start the stopwatch, STD-836.
 - When the faucet turns off, stop the stopwatch, STD-836, and record the time.
 - Repeat these steps two more times (a total of three cycles).
 - Turn the faucet to the full hot position and repeat the three cycles.
 - Turn the faucet to the full cold position and repeat the three cycles.
 - Calculate the average of the faucet times for each position.
- NOTE: The average time for each position must be between 4 to 8 seconds.
- If the average time is not between 4 to 8 seconds, continue with the steps that follow.

SUBTASK 38-11-05-820-023



CAUTION

DEPRESSURIZE WATER SYSTEM BEFORE DISCONNECTING ANY WATER LINES OR WATER SYSTEM COMPONENTS TO PREVENT WATER SPILLAGE.

- (3) If the length of time that the water flows is not satisfactory, do these steps:
- Loosen the set screw [117] to remove the knob [118].
 - Loosen the plunger set screw [119].
 - Turn the plunger [120] to adjust the flow duration as follows:
 - Turn the plunger [120] 1/2 turn clockwise to decrease flow duration.
 - Turn the plunger [120] 1/2 turn counterclockwise to increase flow duration.

SUBTASK 38-11-05-420-093

- (4) Install the faucet knob [118].
- Do not tighten the set screw [117] until the faucet timing is correct.

SUBTASK 38-11-05-420-094

- (5) Repeat the test to time the faucet flow duration.

EFFECTIVITY
LOM ALL

38-11-05



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AIRCRAFT MAINTENANCE MANUAL

LOM 465-999; AIRPLANES WITH FAUCET P/N SC4L500301-1 OR AR9472-3W1D492 (Continued)

- (a) If the faucet timing is not between 4 to 8 seconds then do the timing adjustment steps again.
- (b) If the faucet timing is between 4 to 8 seconds, then continue with the steps that follow.

SUBTASK 38-11-05-420-095

- (6) When the flow time is correct, do these steps:

- (a) Remove the knob [118].
- (b) Tighten the plunger set screw [119] to 1.5 ± 0.5 in-lb (0.17 ± 0.06 N·m).
- (c) Install the faucet knob [118].
- (d) Tighten the set screw [117] to 8 ± 1 in-lb (0.9 ± 0.1 N·m).

SUBTASK 38-11-05-410-035

- (7) Close the access to the lavatory module.

LOM 465-999; AIRPLANES WITH FAUCET P/N SC4L500301-4 OR -5

I. Water Faucet Adjustment



WARNING

WEAR SAFETY GOGGLES WHEN YOU REMOVE OR INSTALL COMPONENTS IN THE FAUCET. THE COMPONENTS ARE INSTALLED WITH COMPRESSION OR TENSION AND CAN RELEASE SUDDENLY. IF YOU DO NOT OBEY, INJURY TO PERSONNEL CAN OCCUR.

SUBTASK 38-11-05-010-036

- (1) Get access to the lavatory module.

SUBTASK 38-11-05-710-010

- (2) To measure the length of time that the water flows, do these steps:
 - (a) Turn the faucet to the middle position (halfway between hot and cold).
 - (b) Push the knob [128] in fully and then release it.
 - 1) Start the stopwatch, STD-836.
 - (c) When the faucet turns off, stop the stopwatch, STD-836, and record the time.
 - (d) Repeat these steps two more times (a total of three cycles).
 - (e) Turn the faucet to the full hot position and repeat the three cycles.
 - (f) Turn the faucet to the full cold position and repeat the three cycles.
 - (g) Calculate the average of the faucet times for each position.

NOTE: The average time for each position must be between 4 to 8 seconds.

 - 1) If the average time is not between 4 to 8 seconds, continue with the steps that follow.

SUBTASK 38-11-05-820-025



CAUTION

DEPRESSURIZE WATER SYSTEM BEFORE DISCONNECTING ANY WATER LINES OR WATER SYSTEM COMPONENTS TO PREVENT WATER SPILLAGE.

- (3) If the length of time that the water flows is not satisfactory, do these steps:
 - (a) Loosen the set screw [117] to remove the knob [128].

EFFECTIVITY
LOM ALL

38-11-05



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

LOM 465-999; AIRPLANES WITH FAUCET P/N SC4L500301-4 OR -5 (Continued)

- (b) Loosen the plunger set screw [135].
- (c) Turn the plunger [134] to adjust the flow duration as follows:
 - 1) Turn the plunger [134] 1/2 turn clockwise to decrease flow duration.
 - 2) Turn the plunger [134] 1/2 turn counterclockwise to increase flow duration.

SUBTASK 38-11-05-420-105

- (4) Install the faucet knob [128].
 - (a) Do not tighten the set screw [117] until the faucet timing is correct.

SUBTASK 38-11-05-420-106

- (5) Repeat the test to time the faucet flow duration.
 - (a) If the faucet timing is not between 4 to 8 seconds then do the timing adjustment steps again.
 - (b) If the faucet timing is between 4 to 8 seconds, then continue with the steps that follow.

SUBTASK 38-11-05-420-107

- (6) When the flow time is correct, do these steps:
 - (a) Remove the knob [128].
 - (b) Remove the plunger set screw [135].
 - (c) Apply one drop (less than 0.04 in. (1 mm)) of Loctite 222MS compound, A50212, to the inside threads of the plunger [134] at the bottom corner of the plunger [134].
 - (d) Tighten the plunger set screw [135] to 4.25 ± 0.25 in-lb (0.48 ± 0.03 N·m).
 - (e) Install the faucet knob [128].
 - (f) If required, apply Loctite 242 compound, A00648, to the set screw [117].
 - (g) Tighten the set screw [117] to 8 ± 1 in-lb (0.9 ± 0.1 N·m).

SUBTASK 38-11-05-410-036

- (7) Close the access to the lavatory module.

LOM 465-999

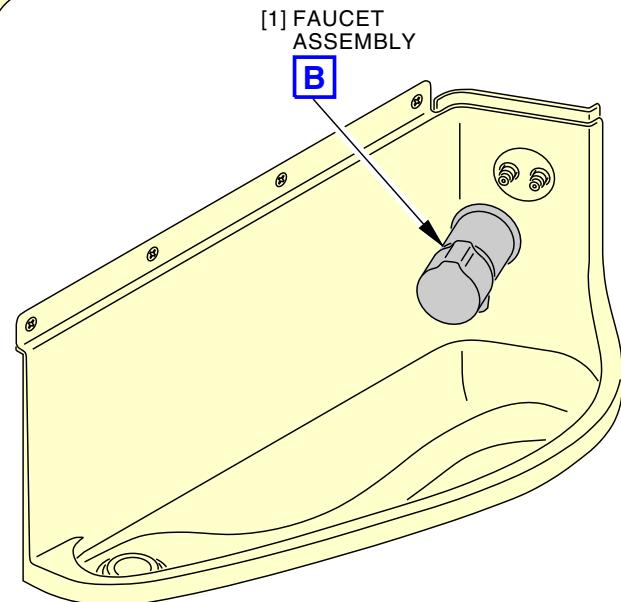
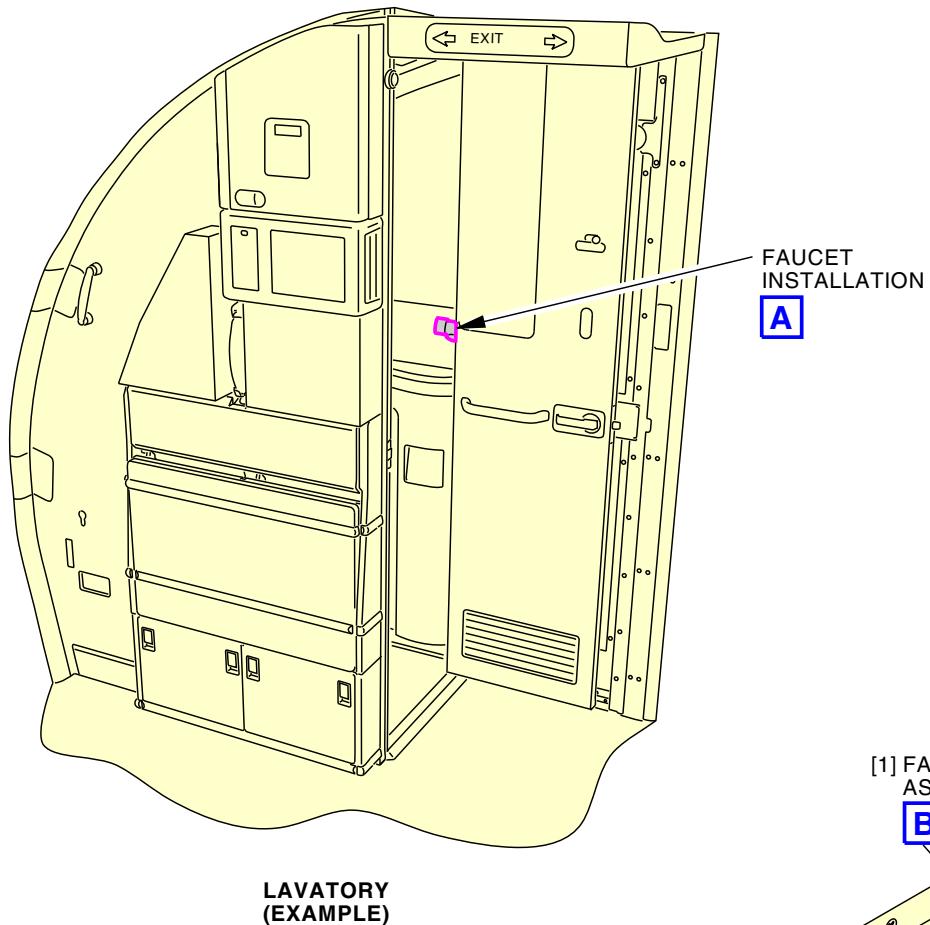
———— END OF TASK ————

EFFECTIVITY
LOM ALL

38-11-05



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



FAUCET INSTALLATION

A

2878672 S0000680693_V1

Lavatory Faucet Adjustment
Figure 204/38-11-05-990-814 (Sheet 1 of 4)

EFFECTIVITY
LOM 465-999

38-11-05

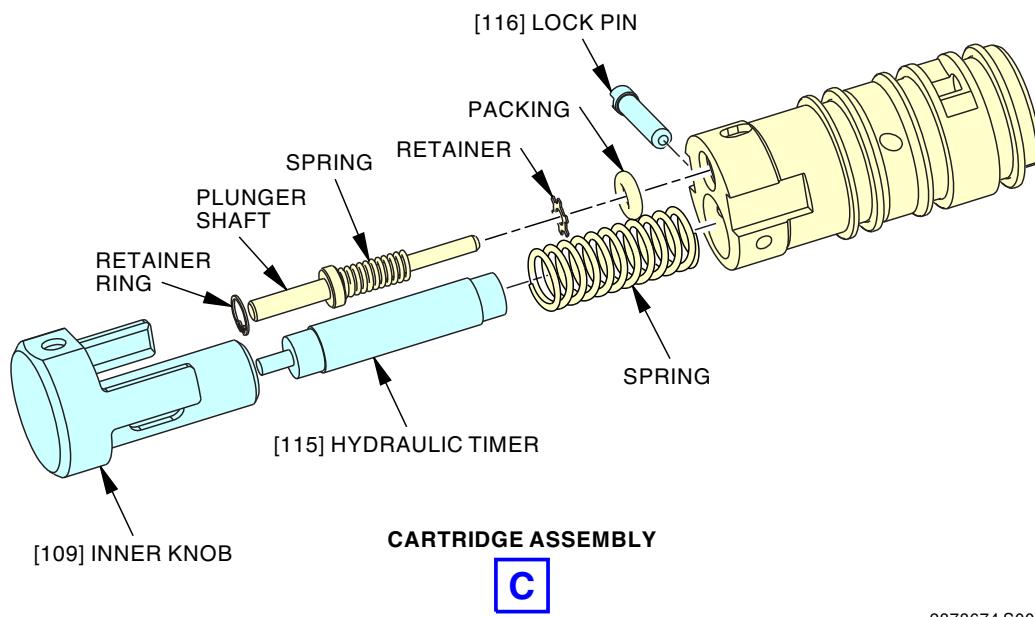
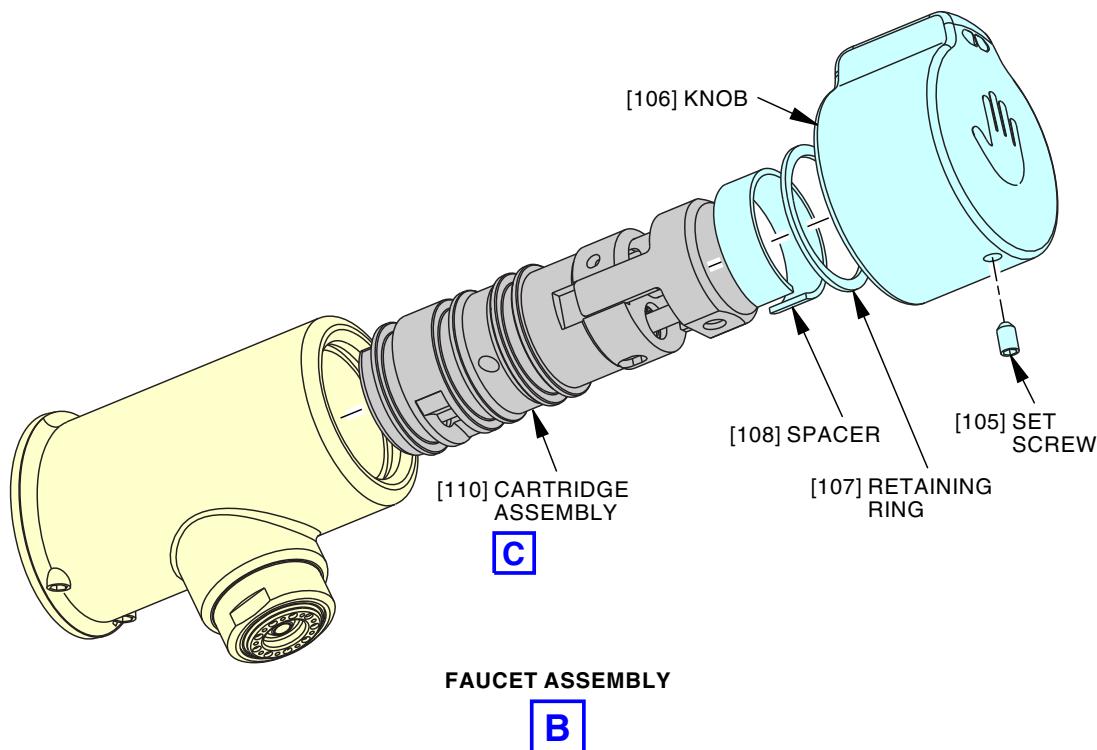
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AIRCRAFT MAINTENANCE MANUAL



2878674 S0000680694_V1

Lavatory Faucet Adjustment
Figure 204/38-11-05-990-814 (Sheet 2 of 4)

EFFECTIVITY
LOM 465-999; AIRPLANES WITH FAUCET P/N
AR9472-3W1D492

38-11-05

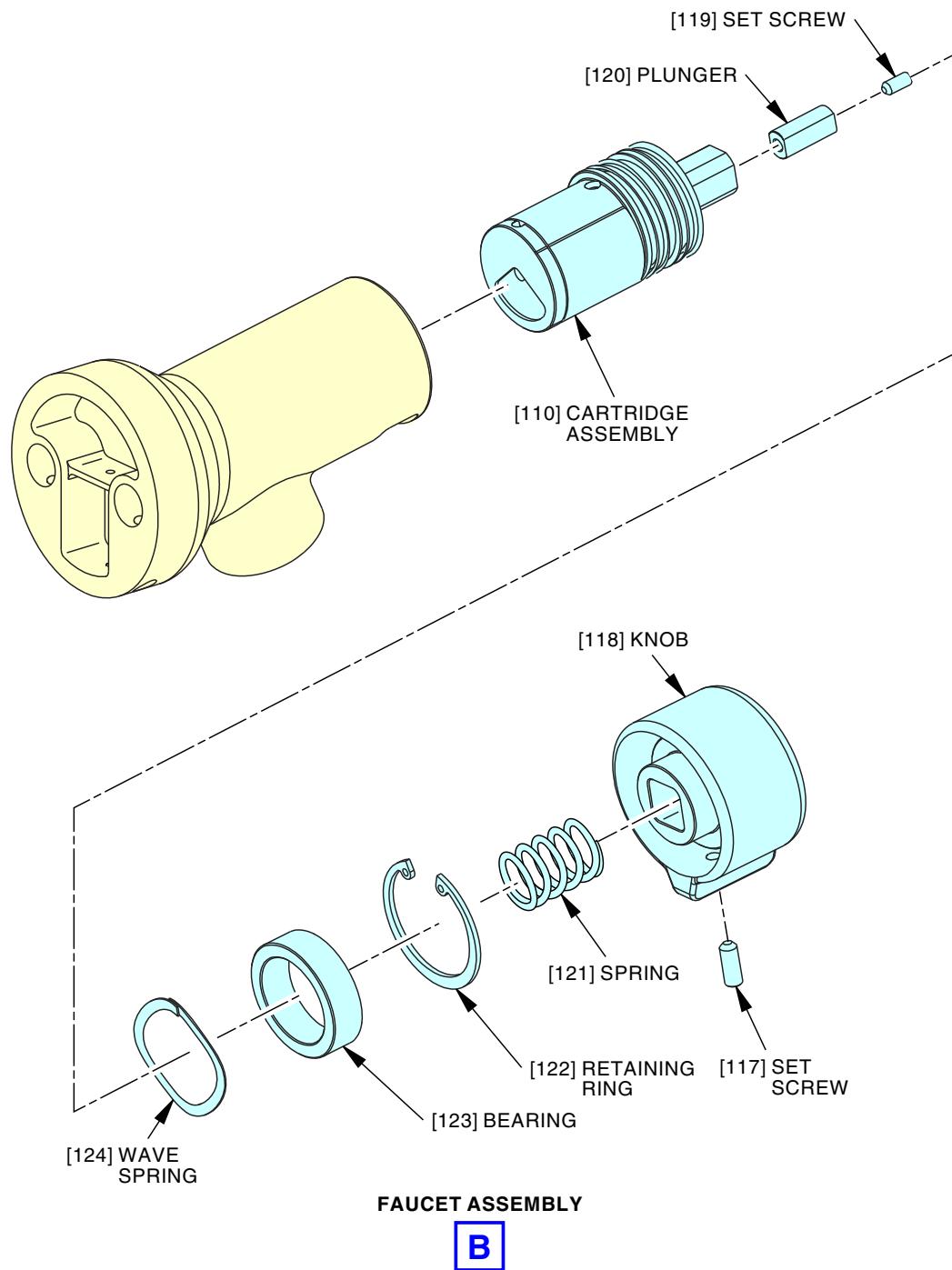
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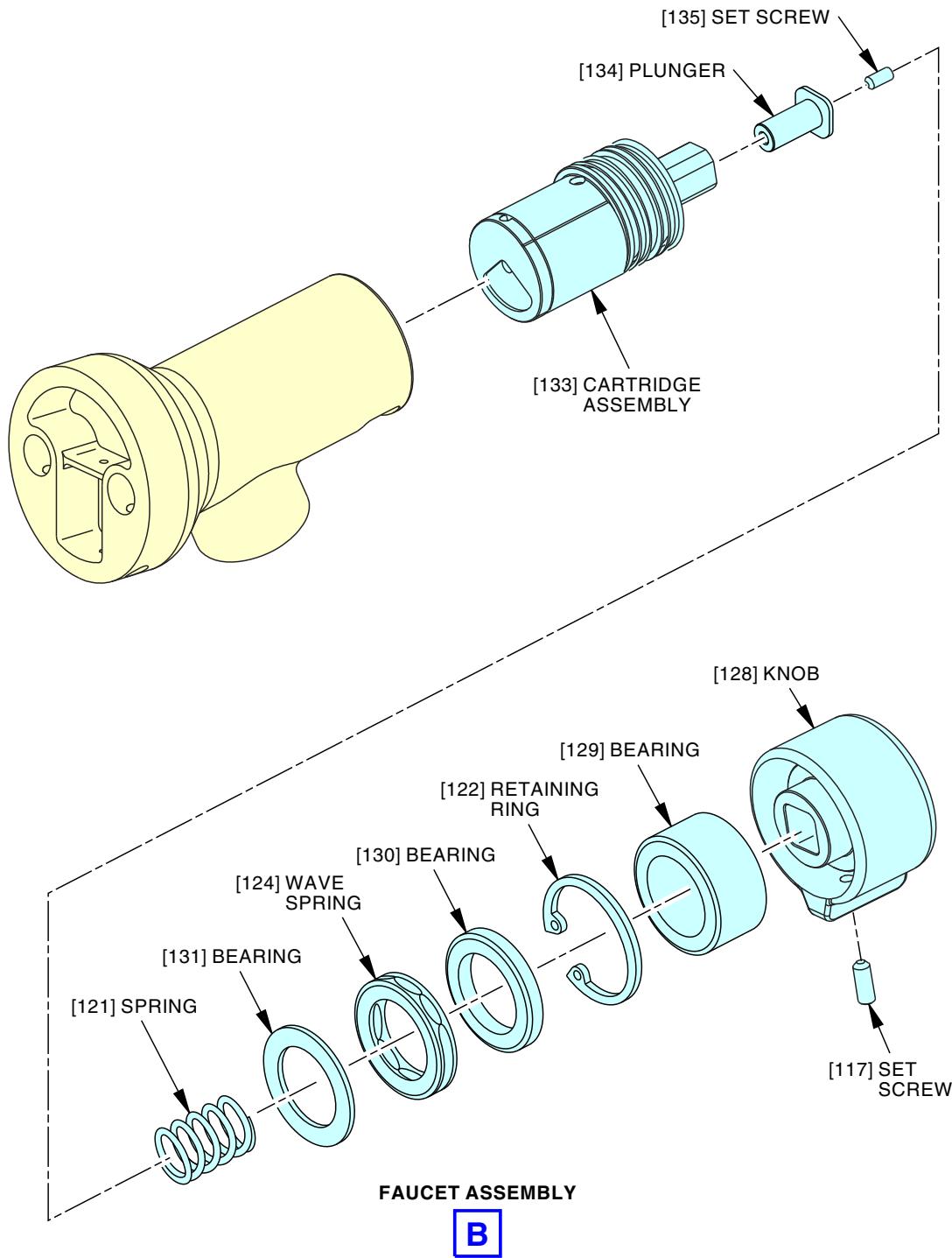
Lavatory Faucet Adjustment
Figure 204/38-11-05-990-814 (Sheet 3 of 4)

EFFECTIVITY
LOM 465-999; AIRPLANES WITH FAUCET P/N
SC4L500301-1 OR AR9472-3W1D492

38-11-05



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AIRCRAFT MAINTENANCE MANUAL



2895624 S0000690498_V1

Lavatory Faucet Adjustment
Figure 204/38-11-05-990-814 (Sheet 4 of 4)

EFFECTIVITY
LOM 465-999; AIRPLANES WITH FAUCET P/N
SC4L500301-4 OR -5

38-11-05

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AIRCRAFT MAINTENANCE MANUAL

FORWARD LAVATORY DRAIN VALVE - MAINTENANCE PRACTICES

1. General

- A. This procedure contains scheduled maintenance task data.
- B. The Forward Lavatory Drain Valve is referred to as the Drain Valve in this procedure.
- C. This procedure has this task:
 - (1) An operational check of the drain valve in the forward lavatory.

TASK 38-11-06-000-802-001

2. Forward Lavatory Drain Valve Operational Check

(Figure 201 or Figure 202)

A. References

Reference	Title
38-42-00-800-802	Potable Water System - Activation (P/B 201)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Prepare for the Operational Check

SUBTASK 38-11-06-860-025

- (1) Do this task: Potable Water System - Activation, TASK 38-42-00-800-802.

SUBTASK 38-11-06-010-004-001

- (2) Get access to the lavatory.

SUBTASK 38-11-06-010-005-001

- (3) Open the cabinet below the sink to get access to the water supply shutoff valve and drain valve.

D. Drain Valve Operational Check

SUBTASK 38-11-06-860-009-001

- (1) Make sure the water supply shutoff valve is in the SUPPLY ON position.

SUBTASK 38-11-06-790-002-001

- (2) Make sure the handle for the drain valve is in the closed position.

SUBTASK 38-11-06-860-010-001

- (3) Open the water faucet, make sure water flows from the faucet..

NOTE: This step checks for water pressure. Water pressure is required for the drain valve leak check.

SUBTASK 38-11-06-860-023

- (4) Close the water faucet.

SUBTASK 38-11-06-790-003-001

- (5) Make sure that there is no water leakage from the drain port after approximately 5 minutes.

E. Put the Airplane Back in Its Usual Condition

SUBTASK 38-11-06-010-006-001

- (1) Close the cabinet below the sink.

———— END OF TASK ———

— EFFECTIVITY —
LOM ALL

38-11-06

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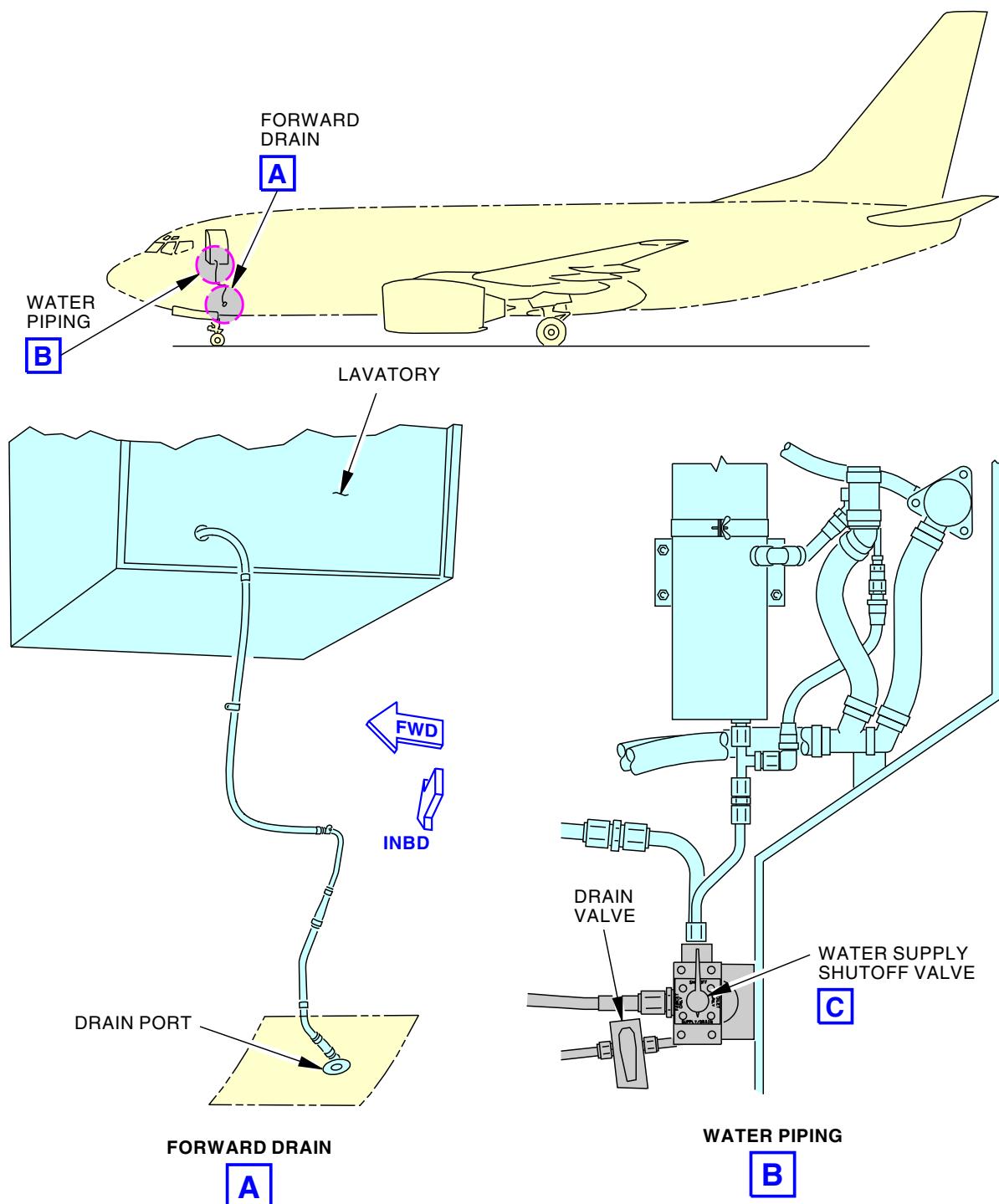
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AIRCRAFT MAINTENANCE MANUAL



G22221 S0006578210_V3

Forward Lavatory Water Drain - Operational Check
Figure 201/38-11-06-990-802-001 (Sheet 1 of 3)

EFFECTIVITY
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
422-434, 439-447, 450-462, 464

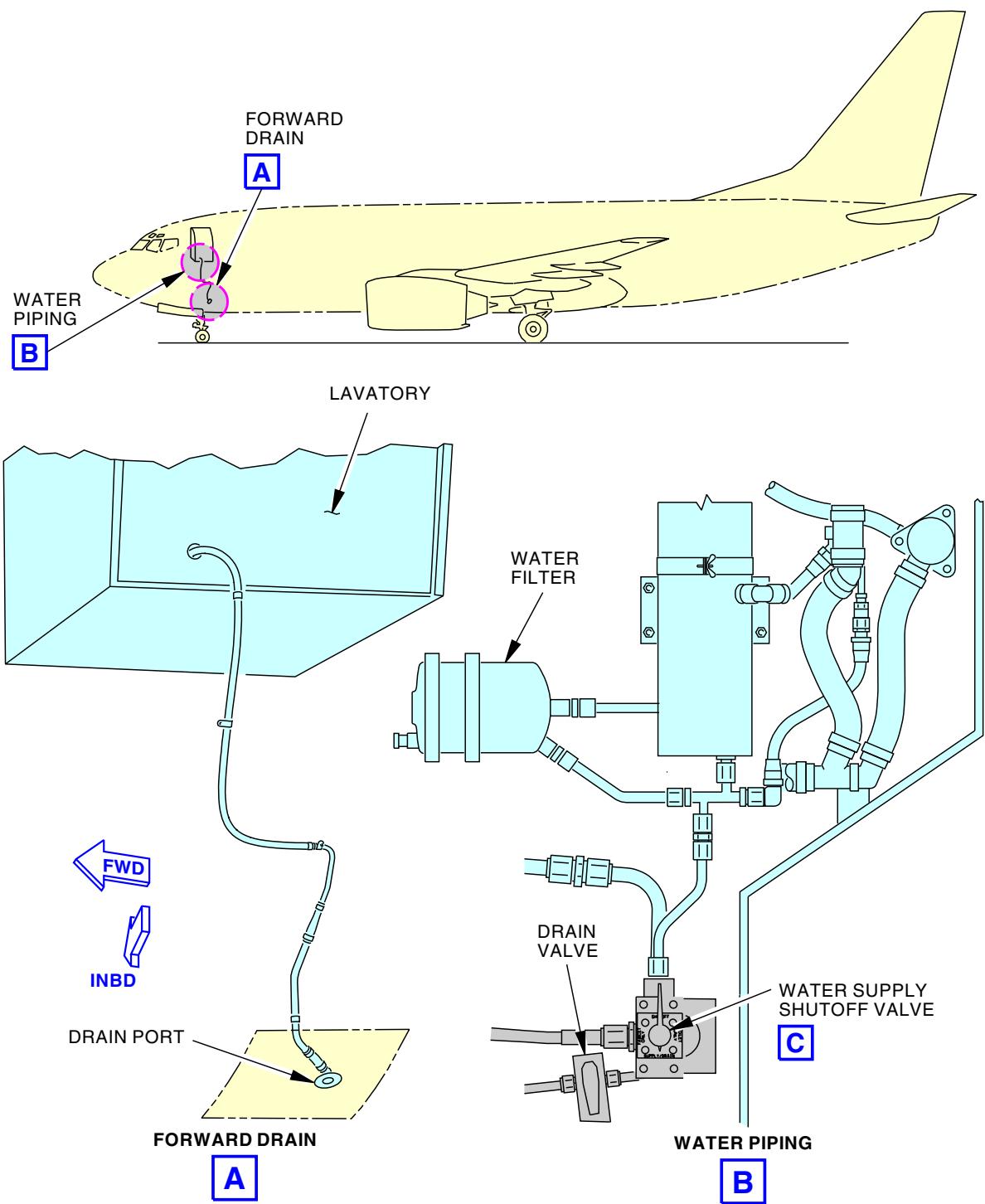
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Forward Lavatory Water Drain - Operational Check
Figure 201/38-11-06-990-802-001 (Sheet 2 of 3)

EFFECTIVITY
LOM 437, 438, 463

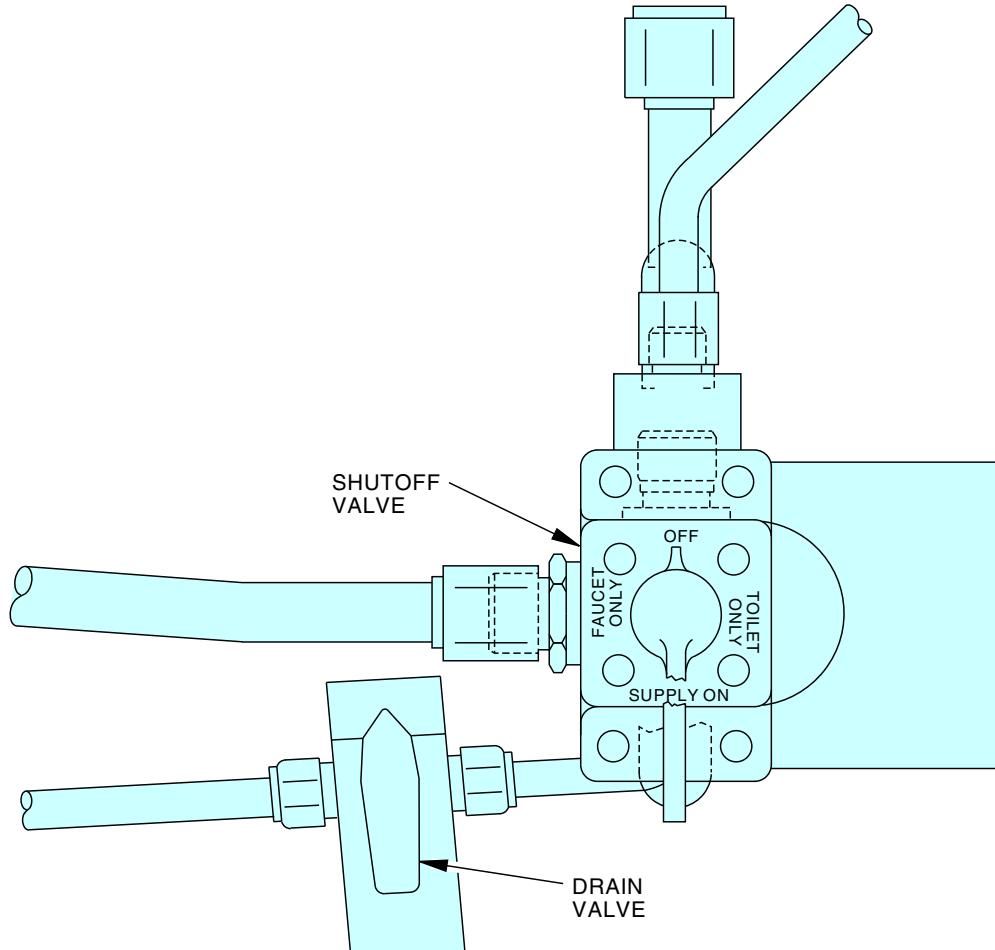
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AIRCRAFT MAINTENANCE MANUAL



WATER SUPPLY SHUTOFF VALE

C

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Forward Lavatory Water Drain - Operational Check
Figure 201/38-11-06-990-802-001 (Sheet 3 of 3)

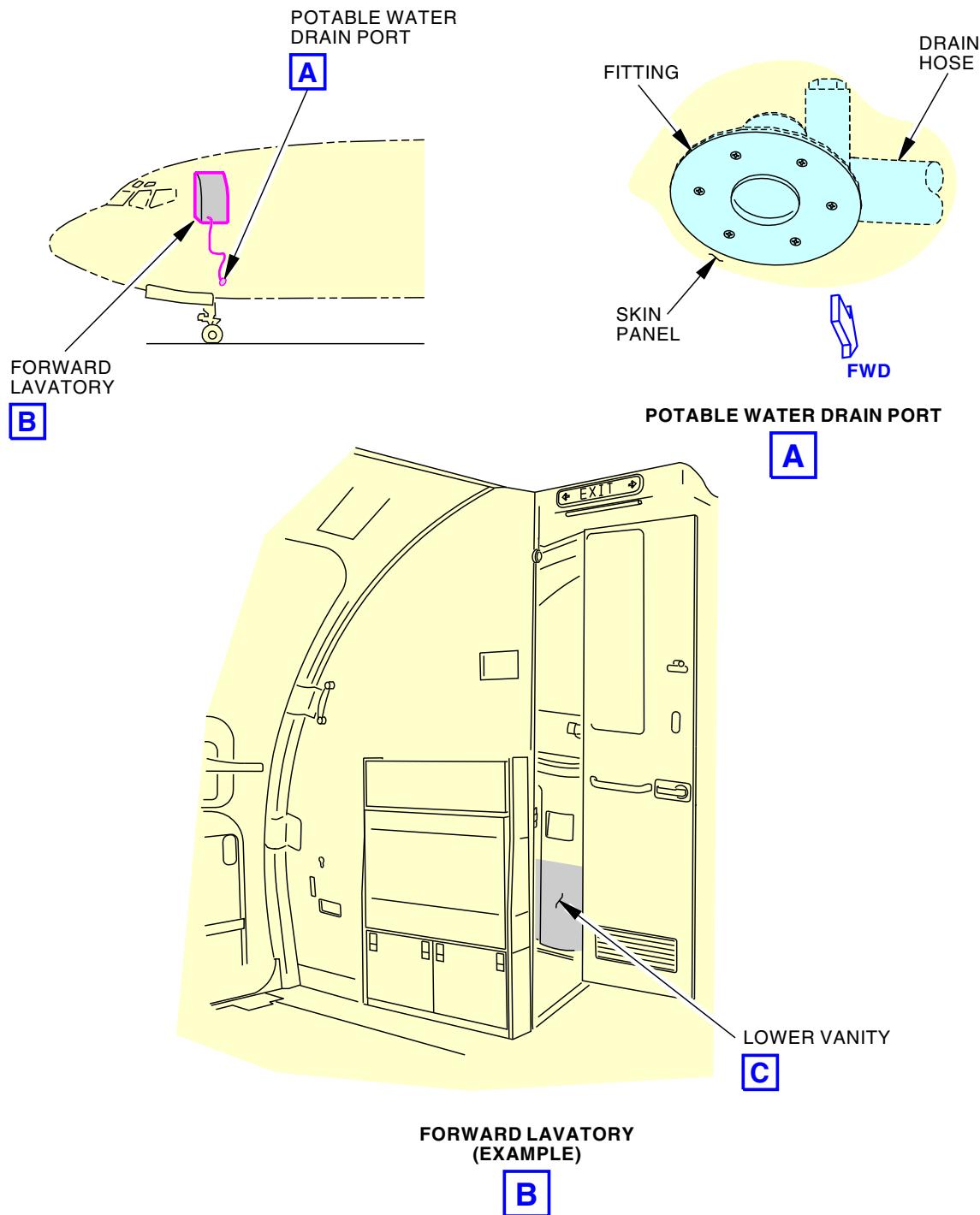
EFFECTIVITY
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
422-434, 437-447, 450-464

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AIRCRAFT MAINTENANCE MANUAL



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Forward Lavatory Water Drain - Operational Check
Figure 202/38-11-06-990-806-001 (Sheet 1 of 2)

EFFECTIVITY
LOM 465-999

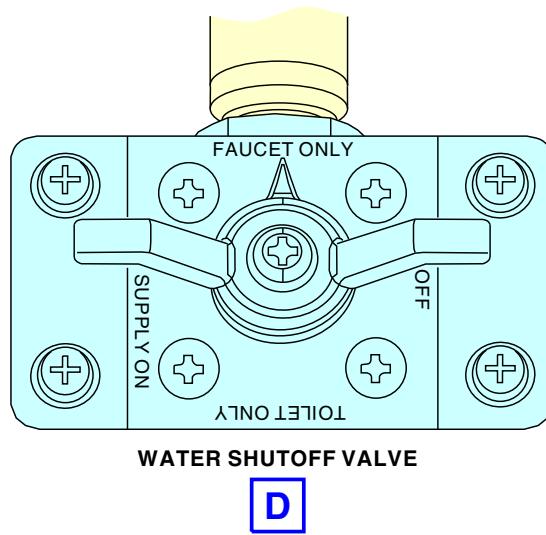
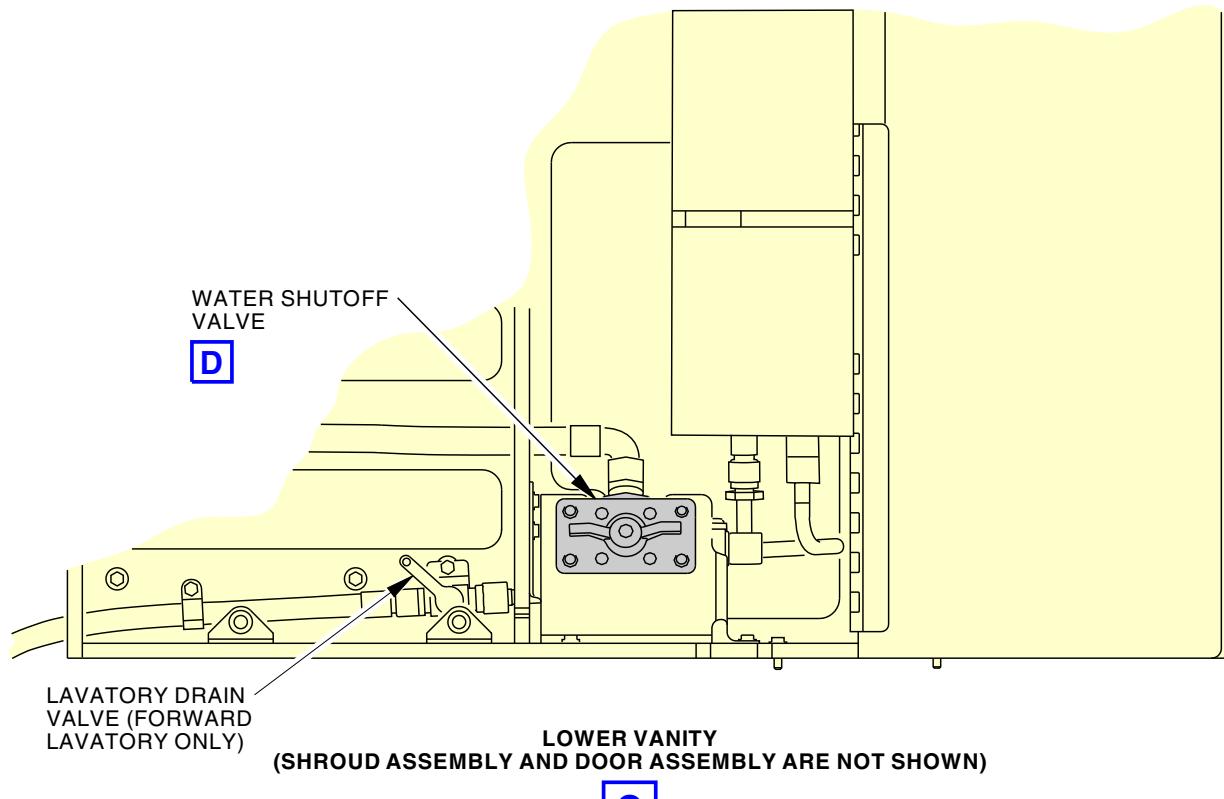
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AIRCRAFT MAINTENANCE MANUAL



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Forward Lavatory Water Drain - Operational Check
Figure 202/38-11-06-990-806-001 (Sheet 2 of 2)

EFFECTIVITY
LOM 465-999

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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AIRCRAFT MAINTENANCE MANUAL

FORWARD LAVATORY DRAIN VALVE - REMOVAL/INSTALLATION

1. General

- A. The Forward Lavatory Drain Valve is referred to as the Drain Valve in this procedure.
- B. This procedure has two tasks:
 - (1) A removal of the drain valve in the forward lavatory.
 - (2) An installation of the drain valve.

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-464

TASK 38-11-06-000-801-001

2. Drain Valve Removal

(Figure 401)

A. References

<u>Reference</u>	<u>Title</u>
38-42-00-800-801	Potable Water System - Deactivation (P/B 201)

B. Location Zones

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

C. Prepare for the Removal

SUBTASK 38-11-06-860-001-001

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

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	13	C00104	LAVATORY WATER HEATER A

SUBTASK 38-11-06-860-002-001

- (2) Do this task: Potable Water System - Deactivation, TASK 38-42-00-800-801.

SUBTASK 38-11-06-010-001-001

- (3) Get access to the lavatory.

SUBTASK 38-11-06-040-001-001

- (4) Open the faucet to release the pressure and to drain some of the water.

SUBTASK 38-11-06-010-002-001

- (5) Open the cabinet below the sink to get access to the shutoff valve.

D. Drain Valve Removal

SUBTASK 38-11-06-020-001-001

- (1) Loosen the B-nuts for the tube connections at the drain valve [1].
 - (a) Use a rag to catch the water in the tubes.

SUBTASK 38-11-06-020-002-001

- (2) Remove the screws [3] for the bracket [4].

SUBTASK 38-11-06-020-003-001

- (3) Remove the handle of the drain valve [1] and then loosen the nut to disconnect the bracket [4].





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LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-464 (Continued)

SUBTASK 38-11-06-020-004-001

- (4) Remove the drain valve [1].

———— END OF TASK ————

TASK 38-11-06-400-801-001

3. Drain Valve Installation

(Figure 401)

A. References

Reference	Title
38-42-00-800-802	Potable Water System - Activation (P/B 201)

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Valve	38-11-06-72Y-005	LOM 458-460

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Drain Valve Installation

SUBTASK 38-11-06-420-001-001

- (1) Put the drain valve [1] in its position on the bracket [4].

SUBTASK 38-11-06-420-002-001

- (2) Put the bracket [4] in its position.

SUBTASK 38-11-06-420-003-001

- (3) Install the screws [3].

SUBTASK 38-11-06-420-004-001

- (4) Attach the water tubes to the drain valve [1] with the B-nuts [2].

SUBTASK 38-11-06-420-005-001

- (5) Tighten the B-nuts [2].

E. Drain Valve Installation Test

SUBTASK 38-11-06-860-003-001

- (1) Do this task: Potable Water System - Activation, TASK 38-42-00-800-802.

SUBTASK 38-11-06-860-004-001

- (2) Turn the handle for the drain valve to the OPEN position.

SUBTASK 38-11-06-790-001-001

- (3) Make sure there are no leaks.

F. Put the Airplane Back in Its Usual Condition

SUBTASK 38-11-06-860-005-001

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	13	C00104	LAVATORY WATER HEATER A

———— EFFECTIVITY ————
LOM ALL



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AIRCRAFT MAINTENANCE MANUAL**

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-464 (Continued)

SUBTASK 38-11-06-010-003-001

- (2) Close the cabinet below the sink.

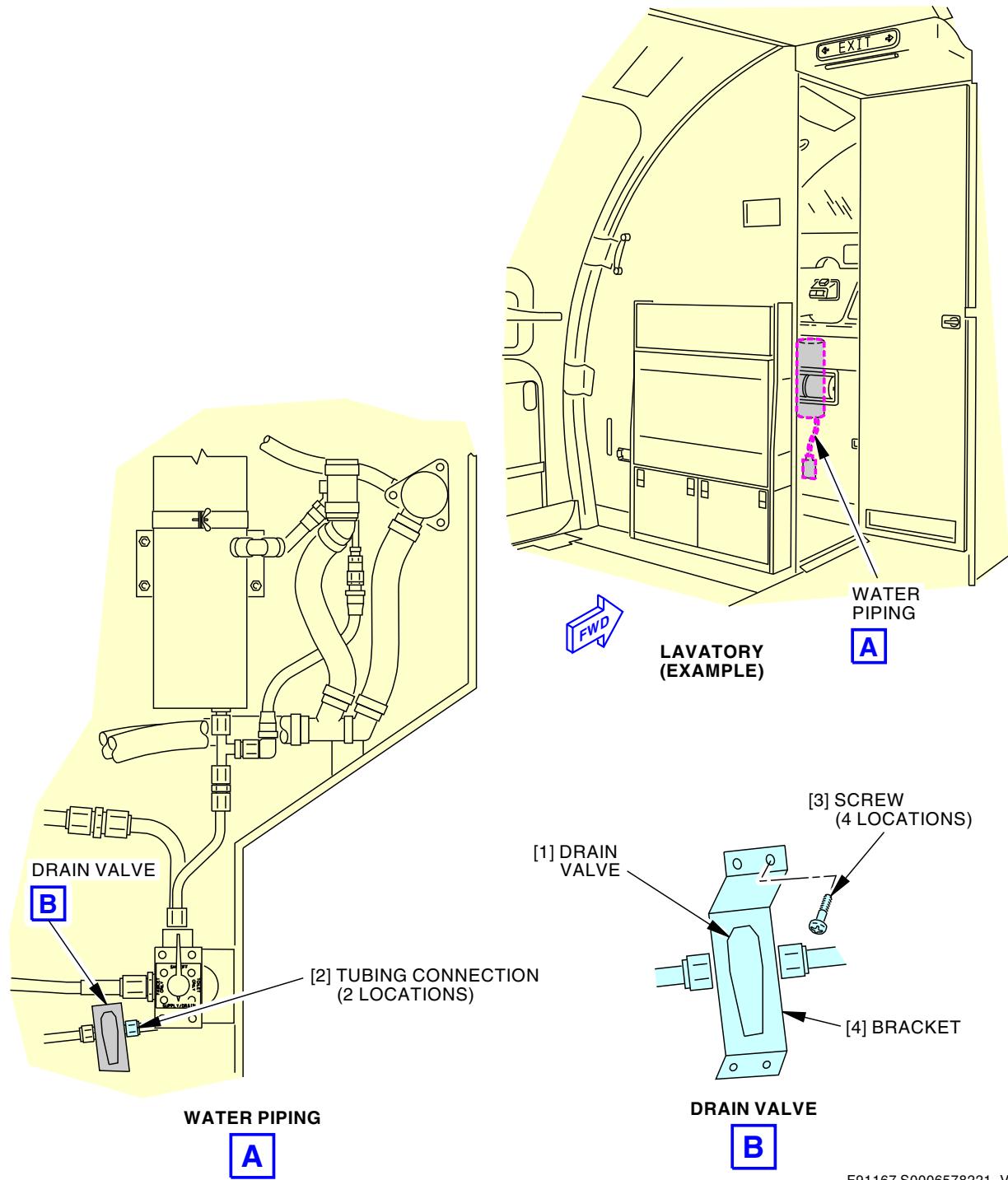
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— EFFECTIVITY —
LOM ALL

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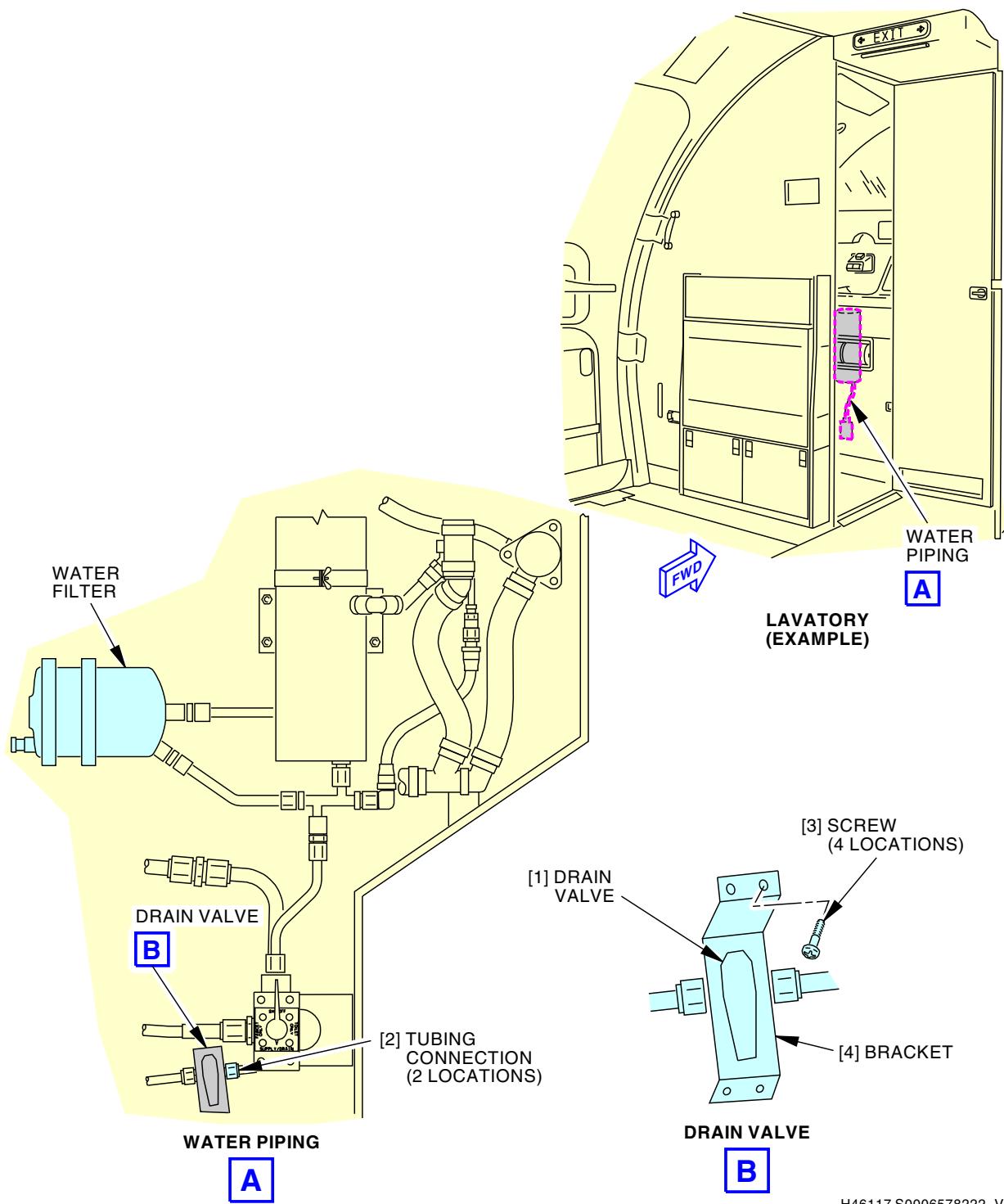
Lavatory Water Drain Installation
Figure 401/38-11-06-990-801-001 (Sheet 1 of 2)

EFFECTIVITY
 LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
 422-434, 439-447, 450-462, 464

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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H46117 S0006578222_V2

Lavatory Water Drain Installation
Figure 401/38-11-06-990-801-001 (Sheet 2 of 2)

EFFECTIVITY
 LOM 437, 438, 463

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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AIRCRAFT MAINTENANCE MANUAL

LOM 465-999

TASK 38-11-06-000-805-001

4. Drain Valve Removal

(Figure 402)

A. References

Reference	Title
38-42-00-800-801	Potable Water System - Deactivation (P/B 201)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Prepare for the Removal

SUBTASK 38-11-06-860-027-001

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	13	C00104	LAVATORY WATER HEATER A

SUBTASK 38-11-06-860-031-001

- (2) Do this task: Potable Water System - Deactivation, TASK 38-42-00-800-801.

SUBTASK 38-11-06-010-014-001

- (3) Get access to the lavatory.

SUBTASK 38-11-06-010-015-001

- (4) Remove the shroud on the lower vanity to access the drain valve [11].

SUBTASK 38-11-06-010-016-001

- (5) Open the door on the lower vanity to access the shutoff valve.

SUBTASK 38-11-06-040-005-001

- (6) Turn the shutoff valve to the OFF position.

SUBTASK 38-11-06-680-001-001

- (7) Move the drain valve handle to the OPEN position.

SUBTASK 38-11-06-680-002-001

- (8) Open the faucet on the forward galley.

(a) Wait 1 minute to drain the remaining potable water or monitor the forward potable water drain port until water stops draining from it.

SUBTASK 38-11-06-410-003-001

- (9) Close the faucet on the forward galley.

D. Drain Valve Removal

SUBTASK 38-11-06-020-009-001

- (1) Loosen the B-nuts [14] for the hose fittings at the drain valve [11].

(a) Use a rag to catch the water in the hoses.

SUBTASK 38-11-06-020-010-001

- (2) Remove the screw [13] from the drain valve [11].

EFFECTIVITY
LOM ALL



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LOM 465-999 (Continued)

SUBTASK 38-11-06-020-012-001

- (3) If the washer [12] is installed on the drain valve [11], remove the washer [12].

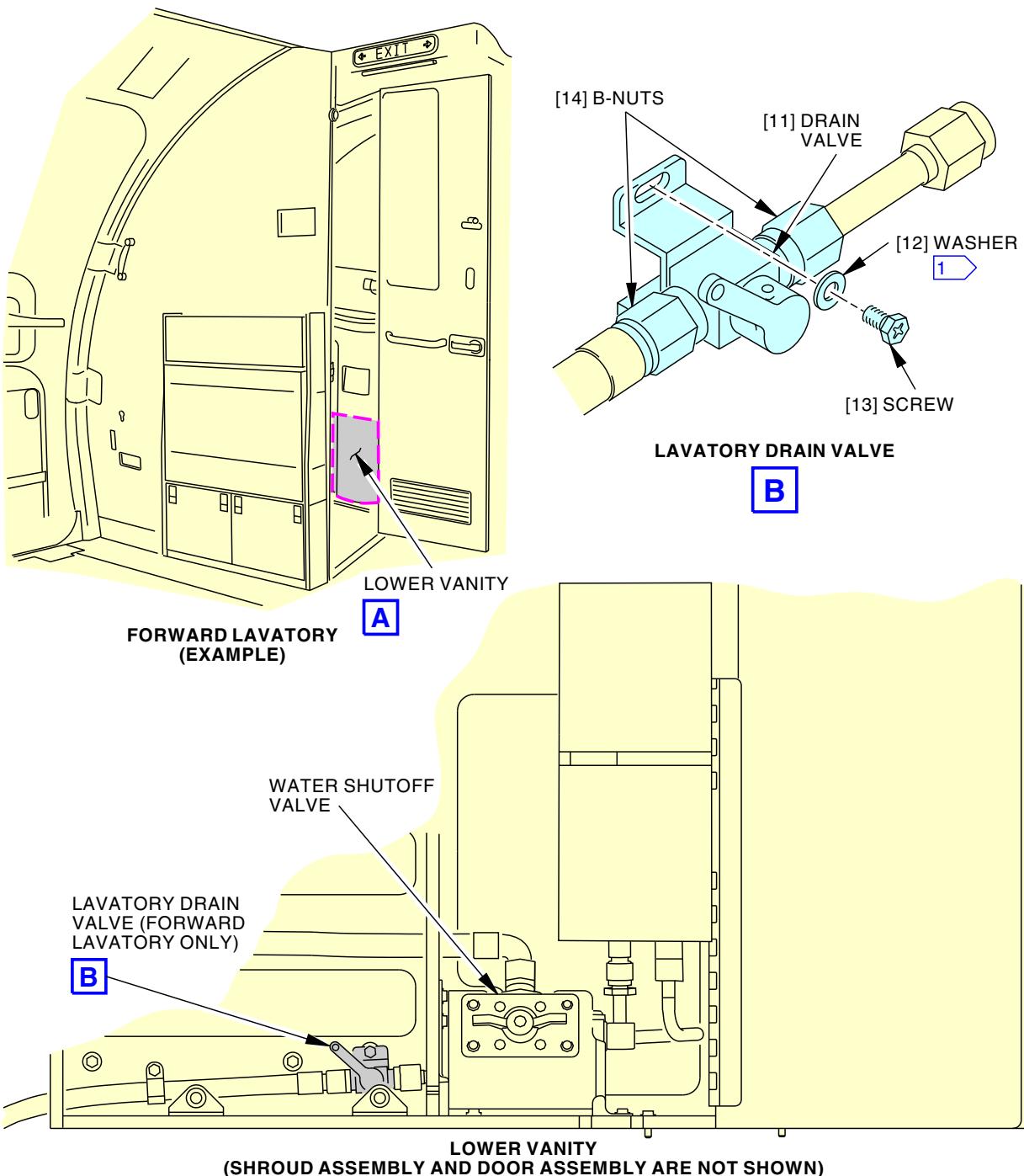
NOTE: The washer is installed not on all airplanes.

SUBTASK 38-11-06-020-011-001

- (4) Remove the drain valve [11].

———— END OF TASK ————

EFFECTIVITY
LOM ALL



1 THE WASHER SHOULD BE INSTALLED
 NOT ON ALL AIRPLANES

A

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Drain Valve Installation
Figure 402/38-11-06-990-805-001

EFFECTIVITY
LOM 465-999

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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LOM 465-999 (Continued)

TASK 38-11-06-400-803-001

5. Drain Valve Installation

(Figure 402)

A. References

Reference	Title
38-42-00-800-802	Potable Water System - Activation (P/B 201)

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
11	Drain valve	38-11-06-15C-070	LOM 465-999

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Drain Valve Installation

SUBTASK 38-11-06-420-011-001

- (1) Put the drain valve [11] in position.

SUBTASK 38-11-06-420-014-001

- (2) If the washer [12] was removed from the drain valve [11], install the washer [12].

NOTE: The washer is installed not on all airplanes.

SUBTASK 38-11-06-420-012-001

- (3) Install the screw [13] to the drain valve [11].

SUBTASK 38-11-06-420-013-001

- (4) Connect and tighten the hose fitting B-nuts [14] at the drain valve [11].

E. Drain Valve Installation Test

SUBTASK 38-11-06-860-032-001

- (1) Do this task: Potable Water System - Activation, TASK 38-42-00-800-802.

SUBTASK 38-11-06-860-028-001

- (2) Move the drain valve handle to the CLOSED position.

SUBTASK 38-11-06-440-001-001

- (3) Turn the shutoff valve to the ON position.

SUBTASK 38-11-06-790-007-001

- (4) Check the drain valve [11] for leaks.

F. Put the Airplane Back to Its Usual Condition

SUBTASK 38-11-06-860-029-001

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	13	C00104	LAVATORY WATER HEATER A

SUBTASK 38-11-06-410-001-001

- (2) Install the shroud on the lower vanity.

EFFECTIVITY
LOM ALL



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LOM 465-999 (Continued)

SUBTASK 38-11-06-410-002-001

- (3) Close the door on the lower vanity.

———— END OF TASK ————

— EFFECTIVITY —
LOM ALL

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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LAVATORY WATER SUPPLY SHUTOFF VALVE - REMOVAL/INSTALLATION

1. General

- A. The Lavatory Water Supply Shutoff Valve is referred to as the Shutoff Valve in this procedure.
- B. This procedure has two tasks:
 - (1) A removal of the shutoff valve for the water supply in the lavatory.
 - (2) An installation of the shutoff valve.

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-464

TASK 38-11-07-000-801

2. Shutoff Valve Removal

(Figure 401)

A. References

Reference	Title
38-42-00-800-801	Potable Water System - Deactivation (P/B 201)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Prepare for the Removal

SUBTASK 38-11-07-860-001

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	13	C00104	LAVATORY WATER HEATER A
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-464			
F	14	C01073	LAVATORY WATER HEATER D
F	15	C01096	LAVATORY WATER HEATER E
LOM 445			
F	16	C01510	LAVATORY WATER HEATER G

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-464

NOTE: You must open the applicable circuit breaker for the lavatory you work in.

SUBTASK 38-11-07-860-002

- (2) Do this task: Potable Water System - Deactivation, TASK 38-42-00-800-801.

SUBTASK 38-11-07-010-001

- (3) Get access to the lavatory.

SUBTASK 38-11-07-040-001

- (4) Open the faucet to release the pressure and to drain some of the water.

SUBTASK 38-11-07-010-002

- (5) Open the cabinet below the sink to get access to the shutoff valve.

D. Shutoff Valve Removal

SUBTASK 38-11-07-020-001

- (1) Loosen the B-nuts for the water connectors [2] at the shutoff valve [1].

EFFECTIVITY
LOM ALL

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LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-464 (Continued)

- (a) Use a rag to catch the water in the water pipes.

SUBTASK 38-11-07-020-003

- (2) Remove the screws [5].

SUBTASK 38-11-07-020-010

- (3) If it is installed, remove the washers [3].

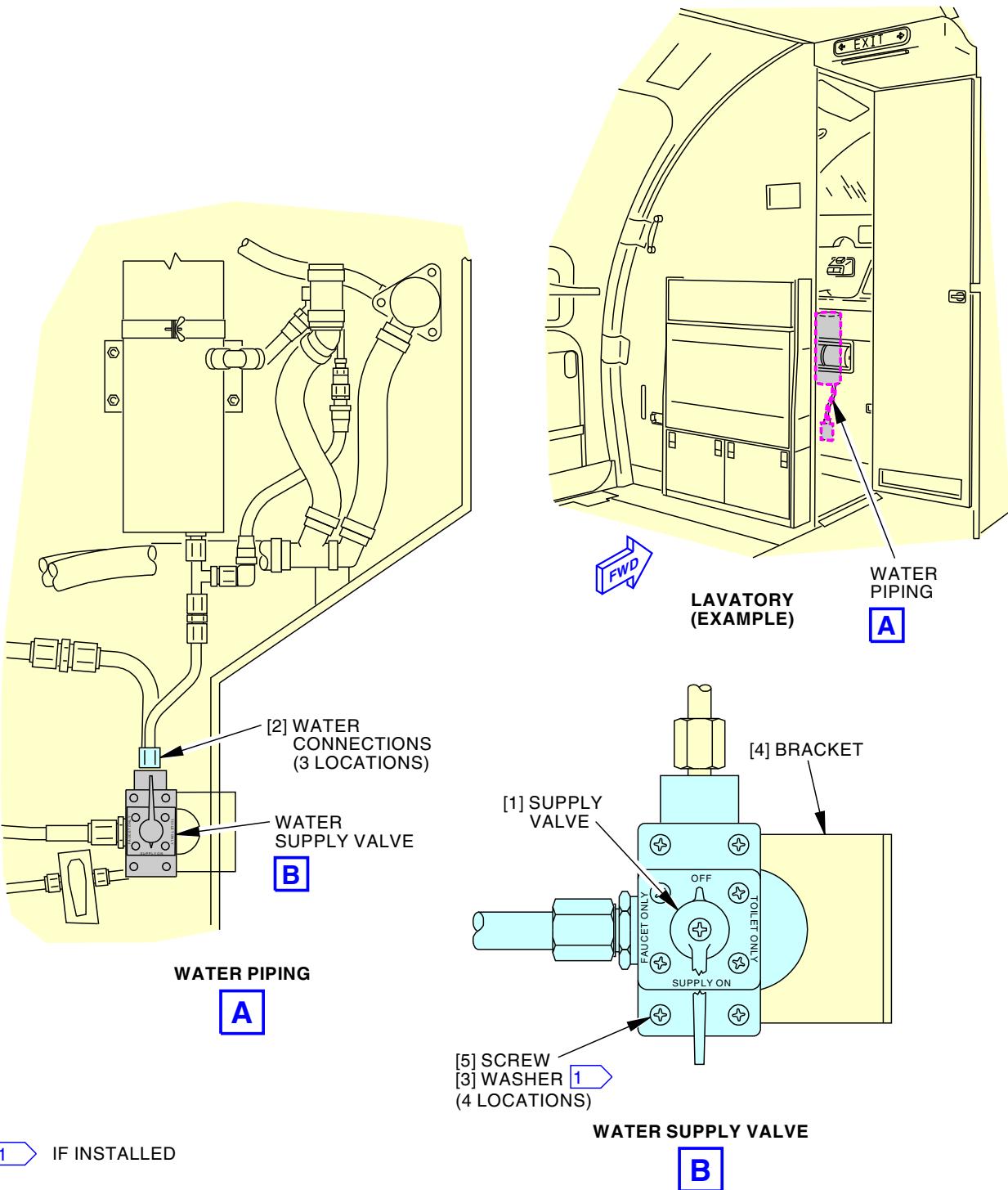
SUBTASK 38-11-07-020-005

- (4) Remove the shutoff valve [1] from the bracket [4].

———— END OF TASK ————

EFFECTIVITY
LOM ALL

38-11-07



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Lavatory Water Supply Shutoff Valve Installation
Figure 401/38-11-07-990-803 (Sheet 1 of 2)

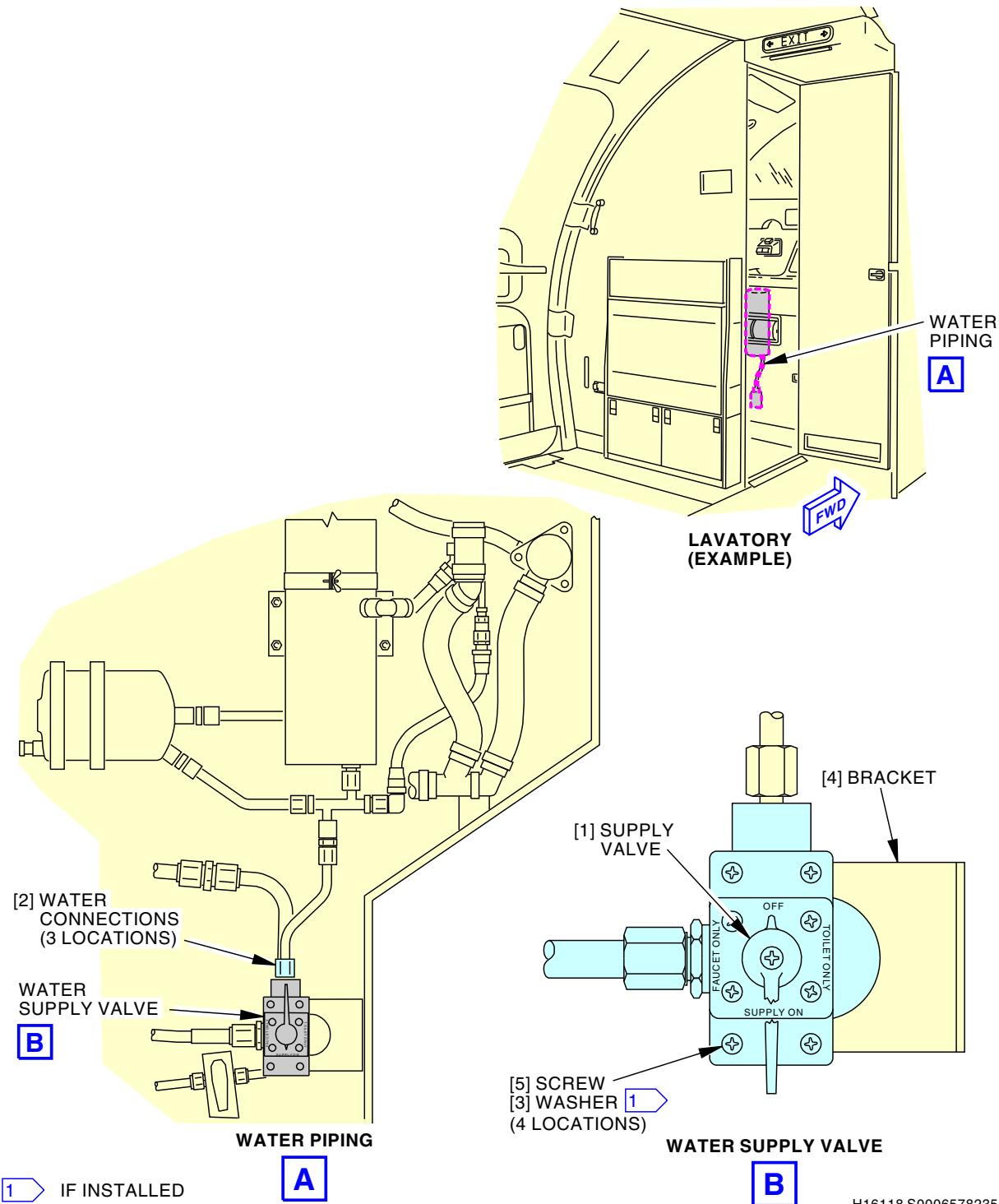
EFFECTIVITY
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
422-434, 439-447, 450-462, 464

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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H16118 S0006578235_V3

Lavatory Water Supply Shutoff Valve Installation
Figure 401/38-11-07-990-803 (Sheet 2 of 2)

 EFFECTIVITY
 LOM 437, 438, 463

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AIRCRAFT MAINTENANCE MANUAL

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-464 (Continued)

TASK 38-11-07-400-801

3. Shutoff Valve Installation

(Figure 401)

A. References

Reference	Title
38-42-00-800-802	Potable Water System - Activation (P/B 201)

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Valve	38-11-00-19-365	LOM 416
		38-11-51-03D-220	LOM 446, 447, 455, 456
		38-11-51-03F-205	LOM 437, 438
		38-11-51-08U-225	LOM 432, 451, 452, 458-460
		38-11-51-08V-205	LOM 451, 452, 458-460
		38-11-51-09D-225	LOM 461-463
		38-11-51-10M-270	LOM 457
		38-11-51-10N-205	LOM 457
		38-11-51-10Q-225	LOM 457
		38-11-51-11K-225	LOM 429, 430
		38-11-51-12F-205	LOM 422, 425
		38-11-51-12G-225	LOM 422, 425
		38-11-51-12U-205	LOM 464
		38-11-51-12W-270	LOM 464
		38-11-51-14R-250	LOM 445
		38-11-51-14T-200	LOM 432
		38-11-51-14U-260	LOM 445-447, 455, 456
		38-11-51-15S-200	LOM 429, 430
		38-11-51-15Z-170	LOM 437, 438
		38-11-51-16B-270	LOM 461-463
		38-11-51-16C-200	LOM 461-463
		38-11-51-16S-150	LOM 437, 438
		38-11-51-17T-225	LOM 431
		38-11-51-18G-205	LOM 446, 447, 455, 456
		38-11-51-19K-250	LOM 433, 434, 440, 442, 453, 454
		38-11-51-19L-245	LOM 429, 430
		38-11-51-19P-220	LOM 433, 434, 440, 442, 453, 454
		38-11-51-19T-225	LOM 445
		38-11-51-22D-205	LOM 431

EFFECTIVITY
LOM ALL

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-464 (Continued)

(Continued)

AMM Item	Description	AIPC Reference	AIPC Effectivity
1 (cont.)		38-11-51-22E-270	LOM 431
		38-11-51-23A-315	LOM 450
		38-11-51-23B-205	LOM 450
		38-11-51-23D-270	LOM 450
		38-11-51-25G-205	LOM 443, 444
		38-11-51-28C-270	LOM 439, 441, 464
		38-11-51-30N-235	LOM 412, 415, 423, 424
		38-11-51-30W-270	LOM 443, 444
		38-11-51-31G-160	LOM 416, 426
		38-11-51-35U-210	LOM 412, 415, 423, 424
		38-11-51-35Z-270	LOM 427, 428
		38-11-51-36G-210	LOM 427, 428
		38-11-51-36H-225	LOM 427, 428
		38-11-51-37G-240	LOM 443, 444
		38-11-51-39N-205	LOM 439, 441
		38-11-51-40D-305	LOM 404, 416
		38-11-51-40E-245	LOM 402, 406, 407, 411, 420
		38-11-51-40R-210	LOM 404
		38-11-51-43F-205	LOM 445
		38-11-51-44H-225	LOM 433, 434, 440, 442, 453, 454
		38-11-51-45R-270	LOM 458-460
		38-11-51-62E-225	LOM 416
		38-11-51-65S-270	LOM 422, 425
		38-11-51-69-305	LOM 402, 406, 407, 411, 412, 415, 420, 423, 424, 426
		38-11-51-69E-270	LOM 404
		38-11-51-69G-275	LOM 426
		38-11-51-74-250	LOM 402, 406, 407, 411, 420
		38-11-51-79G-240	LOM 439, 441
		38-11-51-90-270	LOM 432, 451, 452

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Shutoff Valve Installation

SUBTASK 38-11-07-420-001

- (1) Put the shutoff valve [1] in its position in the bracket [4].



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LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-464 (Continued)

SUBTASK 38-11-07-420-002

- (2) Attach the water connectors [2] to the shutoff valve [1] with the B-nuts.

SUBTASK 38-11-07-420-003

- (3) If it is removed, install the washers [3].

SUBTASK 38-11-07-420-004

- (4) Install the screws [5].

SUBTASK 38-11-07-420-005

- (5) Tighten the B-nuts [2].

E. Shutoff Valve Installation Test

SUBTASK 38-11-07-860-003

- (1) Do this task: Potable Water System - Activation, TASK 38-42-00-800-802.

SUBTASK 38-11-07-860-004

- (2) Turn the handle for the shutoff valve to the OPEN position.

SUBTASK 38-11-07-790-001

- (3) Make sure that there are no leaks.

F. Put the Airplane Back to Its Usual Condition

SUBTASK 38-11-07-860-005

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	13	C00104	LAVATORY WATER HEATER A
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-464			
F	14	C01073	LAVATORY WATER HEATER D
F	15	C01096	LAVATORY WATER HEATER E
LOM 445			
F	16	C01510	LAVATORY WATER HEATER G

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-464

SUBTASK 38-11-07-010-003

- (2) Close the cabinet below the sink.

END OF TASK

LOM 465-999

TASK 38-11-07-000-802

4. Shutoff Valve Removal

Figure 402

A. References

Reference	Title
38-42-00-800-801	Potable Water System - Deactivation (P/B 201)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage



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LOM 465-999 (Continued)

C. Prepare for the Removal

SUBTASK 38-11-07-860-006

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

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	13	C00104	LAVATORY WATER HEATER A
F	14	C01073	LAVATORY WATER HEATER D
LOM 465			
F	15	C01096	LAVATORY WATER HEATER E

LOM 465-999

NOTE: You must open the applicable circuit breaker for the lavatory you work in.

SUBTASK 38-11-07-040-002

- (2) Do this task: Potable Water System - Deactivation, TASK 38-42-00-800-801.

SUBTASK 38-11-07-010-004

- (3) Get access to the lavatory.

SUBTASK 38-11-07-680-001

- (4) Open the faucet to release the pressure and to drain some of the water.

SUBTASK 38-11-07-010-005

- (5) Remove the shroud on the lower vanity to access the drain valve.

SUBTASK 38-11-07-010-006

- (6) Open the door on the lower vanity to access the shutoff valve.

SUBTASK 38-11-07-680-002

- (7) Move the drain valve handle to the OPEN position.

D. Shutoff Valve Removal

SUBTASK 38-11-07-020-007

- (1) Loosen the hose fitting B-nuts [14] and remove the water connections from the shutoff valve [11].
(a) Use a rag to catch the water in the water pipes.

SUBTASK 38-11-07-020-008

- (2) Remove the screws [12], washers [13].

SUBTASK 38-11-07-020-009

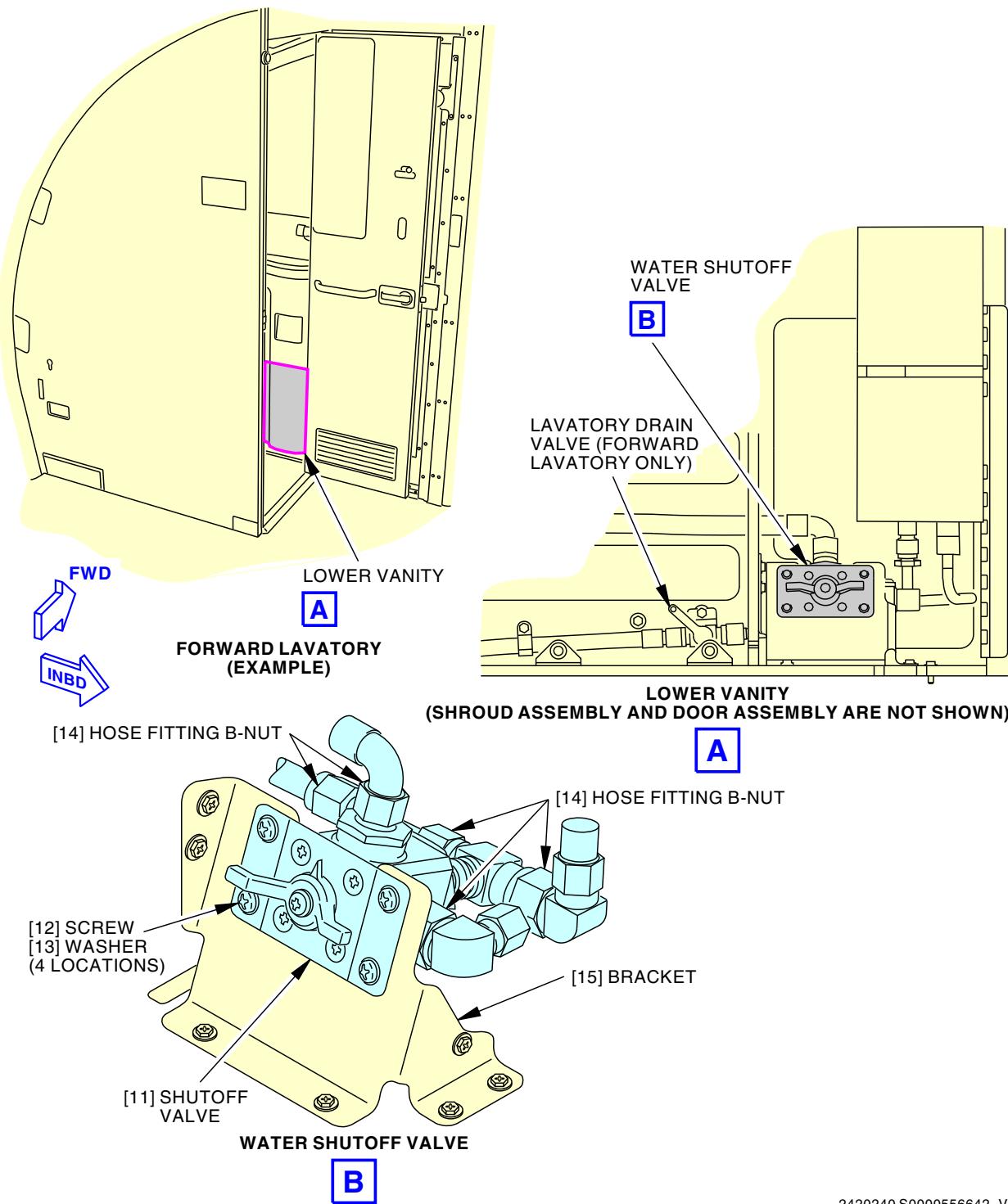
- (3) Remove the shutoff valve [11] from the bracket [15].

———— END OF TASK ————



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Shutoff Valve Installation
Figure 402/38-11-07-990-802

 EFFECTIVITY
 LOM 465-999

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LOM 465-999 (Continued)

TASK 38-11-07-400-802

5. Shutoff Valve Installation

Figure 402

A. References

Reference	Title
38-42-00-800-802	Potable Water System - Activation (P/B 201)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Shutoff Valve Installation

SUBTASK 38-11-07-420-007

- (1) Put the shutoff valve [11] in its position against the bracket [15].

SUBTASK 38-11-07-420-008

- (2) Install the screws [12] and washers [13].

SUBTASK 38-11-07-420-009

- (3) Connect the hose fitting B-nuts [14].

D. Shutoff Valve Installation Test

SUBTASK 38-11-07-440-001

- (1) Do this task: Potable Water System - Activation, TASK 38-42-00-800-802.

SUBTASK 38-11-07-860-007

- (2) Move the drain valve handle to the CLOSED position.

SUBTASK 38-11-07-860-008

- (3) Turn the shutoff valve to the ON position.

SUBTASK 38-11-07-790-002

- (4) Check the shutoff valve connections for leaks.

E. Put the Airplane Back in Its Usual Condition

SUBTASK 38-11-07-860-009

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	13	C00104	LAVATORY WATER HEATER A
F	14	C01073	LAVATORY WATER HEATER D

LOM 465

F	15	C01096	LAVATORY WATER HEATER E
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LOM 465-999

SUBTASK 38-11-07-410-001

- (2) Install the shroud on the lower vanity.

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LOM 465-999 (Continued)

SUBTASK 38-11-07-410-002

- (3) Close the door on the lower vanity sink.

———— END OF TASK ————

EFFECTIVITY
LOM ALL

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AIRCRAFT MAINTENANCE MANUAL

WATER TANK DRAIN VALVE AND CONTROL CABLE - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
- (1) A removal of the drain valve for the water tank.
 - (2) An installation of the drain valve for the water tank.
 - (3) A removal of the control cable for the drain valve at the water tank.
 - (4) An installation of the control cable for the drain valve at the water tank.

TASK 38-11-08-000-801

2. Water Tank Drain Valve Removal

(Figure 401)

A. References

Reference	Title
25-52-19-000-801	Aft Cargo Compartment Aft Bulkhead Liner - Removal (P/B 401)
38-42-00-800-801	Potable Water System - Deactivation (P/B 201)

B. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
142	Aft Cargo Compartment - Right
822	Aft Cargo Door

C. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
822	Aft Cargo Door

D. Prepare for the Water Tank Drain Valve Removal

SUBTASK 38-11-08-860-007

- (1) Do this task: Potable Water System - Deactivation, TASK 38-42-00-800-801.

SUBTASK 38-11-08-010-019

- (2) To get access to the P91 panel, open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 38-11-08-860-008



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.

EFFECTIVITY
LOM ALL

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(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) Open these circuit breakers and install safety tags:

Power Distribution Panel Number 1, P91

Row Col Number Name

LOM 402, 404, 406

A 18 C00873 POT WATER COMPRESSOR

LOM 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-999

D 11 C00873 POT WATER COMPRESSOR

LOM ALL

SUBTASK 38-11-08-860-009

- (4) To get access to the aft cargo compartment, do this step:

Open this access panel:

Number Name/Location

822 Aft Cargo Door

SUBTASK 38-11-08-010-007

- (5) Do this task: Aft Cargo Compartment Aft Bulkhead Liner - Removal, TASK 25-52-19-000-801.

E. Drain Valve Removal

SUBTASK 38-11-08-020-016

- (1) Remove the clamshell [19] and packing [21] to disconnect the inlet from the drain valve [1].

SUBTASK 38-11-08-020-017

- (2) Loosen the B-nut to disconnect the outlet from the drain valve [1].

SUBTASK 38-11-08-020-001

- (3) Remove the screws [2] and washers [3] and then pull the control cable assembly [12] and thermal isolator [20] to disconnect from the drain valve bracket.

SUBTASK 38-11-08-020-002

- (4) Remove the bolts [4], nuts [6], and washers [5].

SUBTASK 38-11-08-020-005

- (5) Remove the drain valve [1] and thermal isolators [23].

———— END OF TASK ————

TASK 38-11-08-400-801

3. Water Tank Drain Valve Installation

(Figure 401)

A. References

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)

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AIRCRAFT MAINTENANCE MANUAL

(Continued)

Reference	Title
25-52-19-400-801	Aft Cargo Compartment Aft Bulkhead Liner - Installation (P/B 401)
38-10-00-600-801	Potable Water System - Disinfectant (P/B 201)
38-42-00-800-802	Potable Water System - Activation (P/B 201)

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Drain valve	38-11-08-03-090	LOM ALL
21	Packing	38-11-08-03-085	LOM ALL

C. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
142	Aft Cargo Compartment - Right
822	Aft Cargo Door

D. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
822	Aft Cargo Door

E. Drain Valve Installation

SUBTASK 38-11-08-420-002

- (1) Put the drain valve [1] and thermal isolators [23] in their position.

SUBTASK 38-11-08-420-011

- (2) Install the bolts [4], nuts [6], and washers [5] for the drain valve [1].

SUBTASK 38-11-08-020-007

- (3) Install the clamshell [19] and packing [21] to connect the drain valve [1].

SUBTASK 38-11-08-020-018

- (4) Connect the outlet connection to the drain valve [1].

SUBTASK 38-11-08-420-013

- (5) Align the arrows on the drain valve [1] and bracket to make sure that the drain valve is in the closed position.

SUBTASK 38-11-08-420-012

- (6) With the handle in the closed position at the service panel, align the drive shaft of the control cable assembly [12] into the drain valve [1].

SUBTASK 38-11-08-420-004

- (7) Install the screws [2] and washers [3] to connect the control cable assembly [12] and thermal isolator [20] to the drain valve bracket.



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F. Drain Valve Installation Test

SUBTASK 38-11-08-860-010



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.

- (1) Close these circuit breakers:

Power Distribution Panel Number 1, P91

Row Col Number Name

LOM 402, 404, 406

A 18 C00873 POT WATER COMPRESSOR

LOM 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-999

D 11 C00873 POT WATER COMPRESSOR

LOM ALL

SUBTASK 38-11-08-410-021

- (2) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-11-08-860-011

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

SUBTASK 38-11-08-860-012

- (4) Do this task: Potable Water System - Activation, TASK 38-42-00-800-802.

SUBTASK 38-11-08-790-001

- (5) Make sure that there are no leaks at the drain valve.

SUBTASK 38-11-08-670-001

- (6) Do this task: Potable Water System - Disinfectant, TASK 38-10-00-600-801.

G. Put the Airplane Back to Its Usual Condition

SUBTASK 38-11-08-410-006

- (1) Do this task: Aft Cargo Compartment Aft Bulkhead Liner - Installation, TASK 25-52-19-400-801.

SUBTASK 38-11-08-410-007

- (2) Close this access panel:

Number Name/Location

822 Aft Cargo Door

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———— END OF TASK ————

TASK 38-11-08-020-801

4. Water Tank Drain Valve Control Cable Removal

(Figure 401)

A. References

Reference	Title
25-52-10-000-801	Cargo Floor Panel - Removal (P/B 401)
25-52-19-000-801	Aft Cargo Compartment Aft Bulkhead Liner - Removal (P/B 401)

B. Location Zones

Zone	Area
142	Aft Cargo Compartment - Right
822	Aft Cargo Door

C. Access Panels

Number	Name/Location
146AR	Water Service Door
822	Aft Cargo Door

D. Prepare for the Water Tank Drain Valve Control Cable Removal

SUBTASK 38-11-08-010-008

- (1) Open this access panel:

Number	Name/Location
822	Aft Cargo Door

SUBTASK 38-11-08-010-009

- (2) Do this task: Aft Cargo Compartment Aft Bulkhead Liner - Removal, TASK 25-52-19-000-801.

SUBTASK 38-11-08-010-010

- (3) To remove the floor panels for access to the control cable, do this task: Cargo Floor Panel - Removal, TASK 25-52-10-000-801.

SUBTASK 38-11-08-010-011

- (4) Open this access panel:

Number	Name/Location
146AR	Water Service Door

E. Water Tank Drain Valve Control Cable Removal

SUBTASK 38-11-08-020-009

- (1) Remove the screws [2] and washers [3] that attach the control cable assembly [12] to the drain valve [1].

SUBTASK 38-11-08-020-010

- (2) Pull the control cable assembly [12] and thermal isolator [20] from the support bracket at the drain valve.

SUBTASK 38-11-08-020-011

- (3) Remove the screw [7], nut [10] and washers [8] to remove the clamp [9] from the control cable assembly [12].

SUBTASK 38-11-08-020-019

- (4) Remove the screw [18] to disconnect handle [17] for the control cable assembly [12].

———— EFFECTIVITY ————
LOM ALL

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SUBTASK 38-11-08-020-012

- (5) Remove the nuts [15] and washers [16] at the service panel.

SUBTASK 38-11-08-020-013

- (6) Pull the control cable assembly [12], bolts [13] and washers [14] from the thermal isolator [22] at the service panel.

SUBTASK 38-11-08-020-014

- (7) Remove the control cable assembly [12] and thermal isolator [22].

———— END OF TASK ————

TASK 38-11-08-420-801

5. Water Tank Drain Valve Control Cable Installation

(Figure 401)

A. References

Reference	Title
12-14-01-600-802	Potable Water Tank - Fill (P/B 301)
25-52-10-400-801	Cargo Floor Panel - Installation (P/B 401)
25-52-19-400-801	Aft Cargo Compartment Aft Bulkhead Liner - Installation (P/B 401)
38-42-00-800-802	Potable Water System - Activation (P/B 201)

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
12	Cable assembly	38-11-08-03-120	LOM ALL

C. Location Zones

Zone	Area
144	Area Below Aft Cargo Compartment - Right
146	Aft Cargo Compartment Equipment Bay - Right
822	Aft Cargo Door

D. Access Panels

Number	Name/Location
146AR	Water Service Door
822	Aft Cargo Door

E. Water Tank Drain Valve Control Cable Installation

SUBTASK 38-11-08-420-005

- (1) Put the bolts [13] and washers [14] into the control cable assembly [12] at the service panel.

SUBTASK 38-11-08-420-006

- (2) Put the control cable assembly [12] and thermal isolator [22] in their position.

SUBTASK 38-11-08-420-007

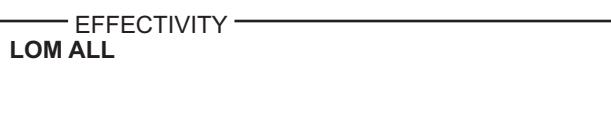
- (3) Install the nuts [15] and washers [16] for the control cable assembly [12] at the service panel.

SUBTASK 38-11-08-420-008

- (4) Install the handle [17] and screw [18] for the control cable assembly [12].

SUBTASK 38-11-08-860-013

- (5) Get access to the aft cargo compartment.



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SUBTASK 38-11-08-020-015

- (6) Install the screw [7], washer [8], clamp [9], washer [8] and nut [10] on the control cable assembly [12].

SUBTASK 38-11-08-420-014

- (7) Make sure you align the arrows on the drain valve [1] and the bracket to make sure the drain valve is in the closed position.

SUBTASK 38-11-08-420-009

- (8) Put the valve end of the control cable assembly [12] under the endwall support bracket.

SUBTASK 38-11-08-420-010

- (9) With the handle in the closed position at the service panel, install loosely the screws [2], washers [3], and thermal isolator [20] for the control cable assembly [12].

F. Water Tank Drain Valve Control Cable Installation Test

SUBTASK 38-11-08-010-012

- (1) Do this task: Potable Water Tank - Fill, TASK 12-14-01-600-802.

SUBTASK 38-11-08-860-014

- (2) Make sure you have pressure in the potable water system.

- (a) If you do not have pressure in the potable water system, do this task: Potable Water System - Activation, TASK 38-42-00-800-802.

SUBTASK 38-11-08-010-013

- (3) Open this access panel:

Number Name/Location

146AR Water Service Door

SUBTASK 38-11-08-710-002

- (4) Open the drain valve for the water tank to make sure that the water flows from the drain port.

SUBTASK 38-11-08-860-015

- (5) Make sure the drain valve for the water tank is fully open.

SUBTASK 38-11-08-710-003

- (6) Close the drain valve for the aft system to make sure that the water flow stops.

SUBTASK 38-11-08-860-016

- (7) Make sure the drain valve for the water tank is fully closed.

G. Put the Airplane Back in its Usual Condition

SUBTASK 38-11-08-410-008



WARNING SEAL THE CARGO COMPARTMENT WITH THE LINING. OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN YOU INSTALL THE LINING. IF YOU INSTALL THE LINING INCORRECTLY, THE SMOKE CAN GET INTO THE PASSENGER COMPARTMENT DURING A FIRE.

- (1) Do this task: Cargo Floor Panel - Installation, TASK 25-52-10-400-801.

SUBTASK 38-11-08-410-009

- (2) Do this task: Aft Cargo Compartment Aft Bulkhead Liner - Installation, TASK 25-52-19-400-801.

EFFECTIVITY
LOM ALL

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SUBTASK 38-11-08-410-010

- (3) Close this access panel:

<u>Number</u>	<u>Name/Location</u>
822	Aft Cargo Door

SUBTASK 38-11-08-410-011

- (4) Close this access panel:

<u>Number</u>	<u>Name/Location</u>
146AR	Water Service Door

———— END OF TASK ————

EFFECTIVITY
LOM ALL

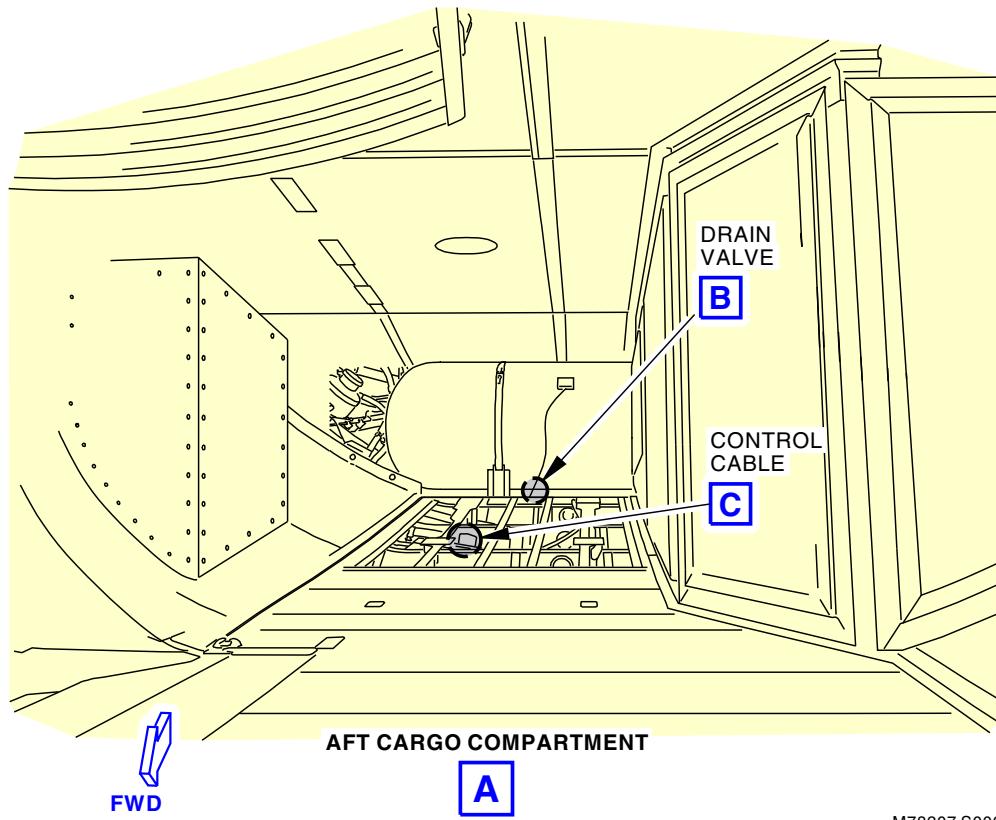
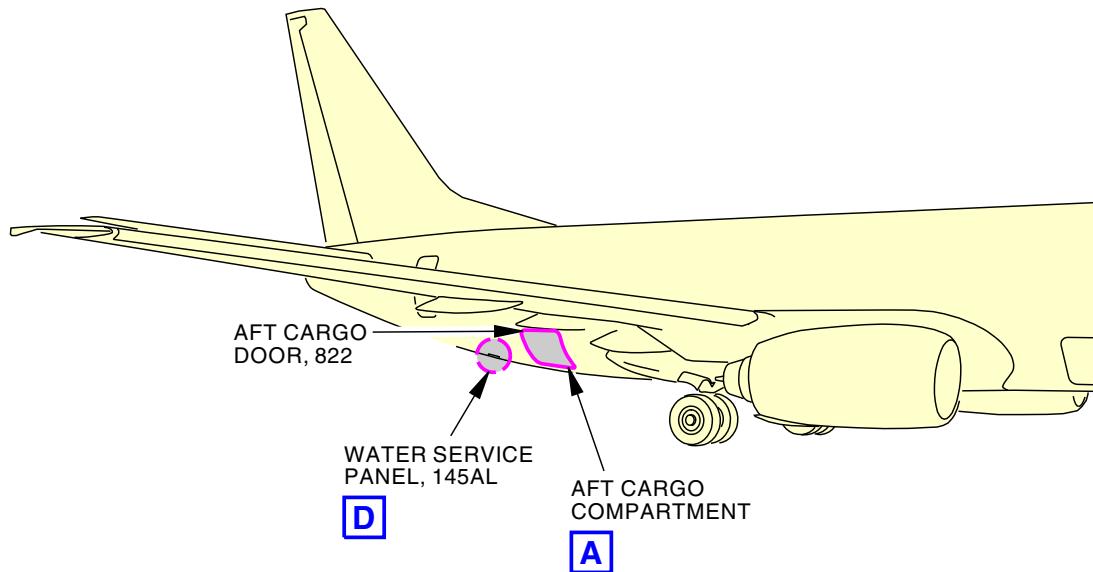
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AIRCRAFT MAINTENANCE MANUAL



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Water Tank Drain Valve and Control Cable Installation
Figure 401/38-11-08-990-802 (Sheet 1 of 3)

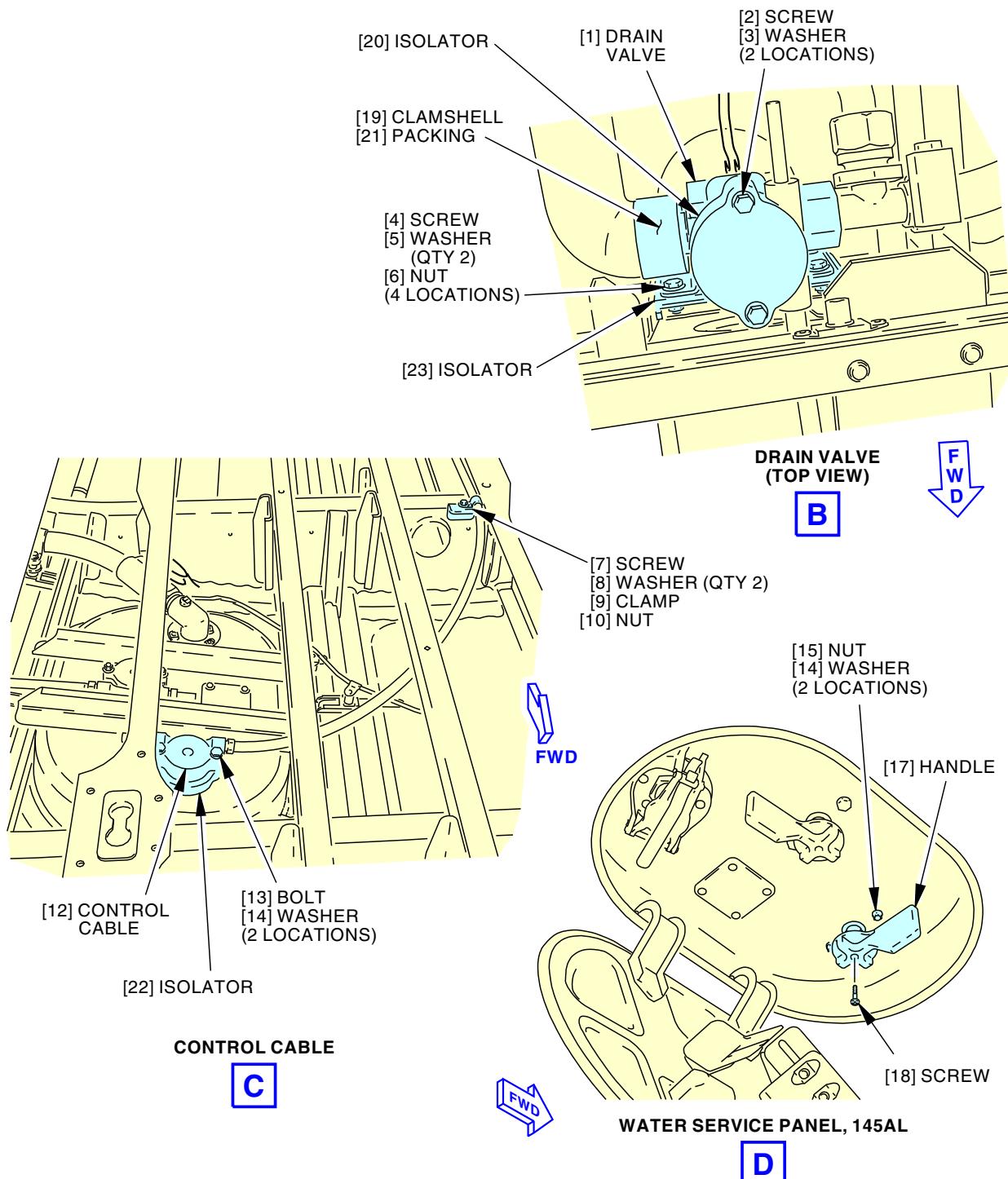
EFFECTIVITY
LOM ALL

38-11-08

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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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**737-600/700/800/900
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H17486 S0006578250_V2

Water Tank Drain Valve and Control Cable Installation
Figure 401/38-11-08-990-802 (Sheet 2 of 3)

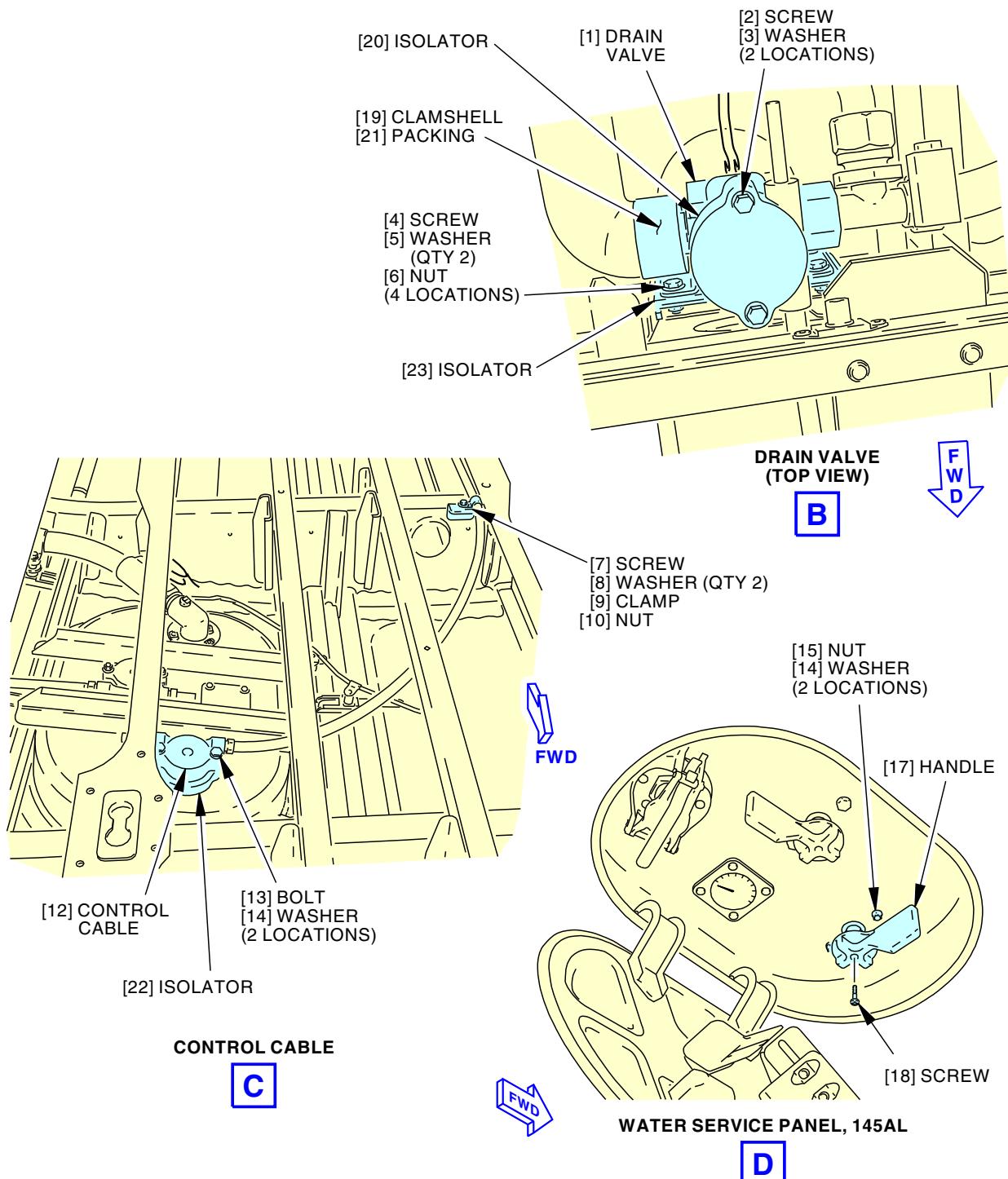
EFFECTIVITY
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
422-431, 433, 434, 437-447, 450-465

38-11-08

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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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3014602 S0000788142_V1

Water Tank Drain Valve and Control Cable Installation
Figure 401/38-11-08-990-802 (Sheet 3 of 3)

EFFECTIVITY
LOM 432, 466-999

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POTABLE WATER FILL FITTING - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
- (1) A removal of the potable water fill fitting.
 - (2) An installation of the potable water fill fitting.

TASK 38-11-09-000-801

2. Potable Water Fill Fitting - Removal

(Figure 401)

A. References

Reference	Title
25-52-10-000-801	Cargo Floor Panel - Removal (P/B 401)
25-52-19-000-801	Aft Cargo Compartment Aft Bulkhead Liner - Removal (P/B 401)

B. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
142	Aft Cargo Compartment - Right
822	Aft Cargo Door

C. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
146AR	Water Service Door
822	Aft Cargo Door

D. Prepare for the Removal

SUBTASK 38-11-09-860-004

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
D	18	C01463	WASTE/WTR LINE HEATERS
E	18	C01473	HOSE HEATERS

SUBTASK 38-11-09-010-006

- (2) To get access to the P91 panel, open this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-11-09-860-001



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.

EFFECTIVITY
LOM ALL

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(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) Open these circuit breakers and install safety tags:

Power Distribution Panel Number 1, P91

Row Col Number Name

LOM 402, 404, 406

A 18 C00873 POT WATER COMPRESSOR

LOM 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-999

D 11 C00873 POT WATER COMPRESSOR

LOM ALL

SUBTASK 38-11-09-010-001

- (4) Open this access panel:

Number Name/Location

146AR Water Service Door

SUBTASK 38-11-09-040-001

- (5) Pull the handle for the potable water fill valve to the OPEN position.

NOTE: This handle is on the water service panel.

SUBTASK 38-11-09-010-002

- (6) Open this access panel:

Number Name/Location

822 Aft Cargo Door

SUBTASK 38-11-09-010-004

- (7) Do this task: Aft Cargo Compartment Aft Bulkhead Liner - Removal, TASK 25-52-19-000-801.

SUBTASK 38-11-09-010-003

- (8) To remove the floor panel above the water service panel, do this task: Cargo Floor Panel - Removal, TASK 25-52-10-000-801.

E. Potable Water Fill Fitting Removal

SUBTASK 38-11-09-020-006

- (1) Remove the lockwire from fill heater fitting [1] and fill cap assembly [4].

SUBTASK 38-11-09-020-001

- (2) Disconnect the heated hose from the fill heater fitting [1].

SUBTASK 38-11-09-020-002

- (3) Remove the bolts [5] that attach the fill cap assembly [4] to the structure.

SUBTASK 38-11-09-020-003

- (4) Remove the thermal isolator [6] under the fill heater fitting [1].

EFFECTIVITY
LOM ALL

38-11-09



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SUBTASK 38-11-09-020-004

- (5) Remove the thermal spacer [2] under the fill cap assembly [4].

———— END OF TASK ————

— EFFECTIVITY —
LOM ALL

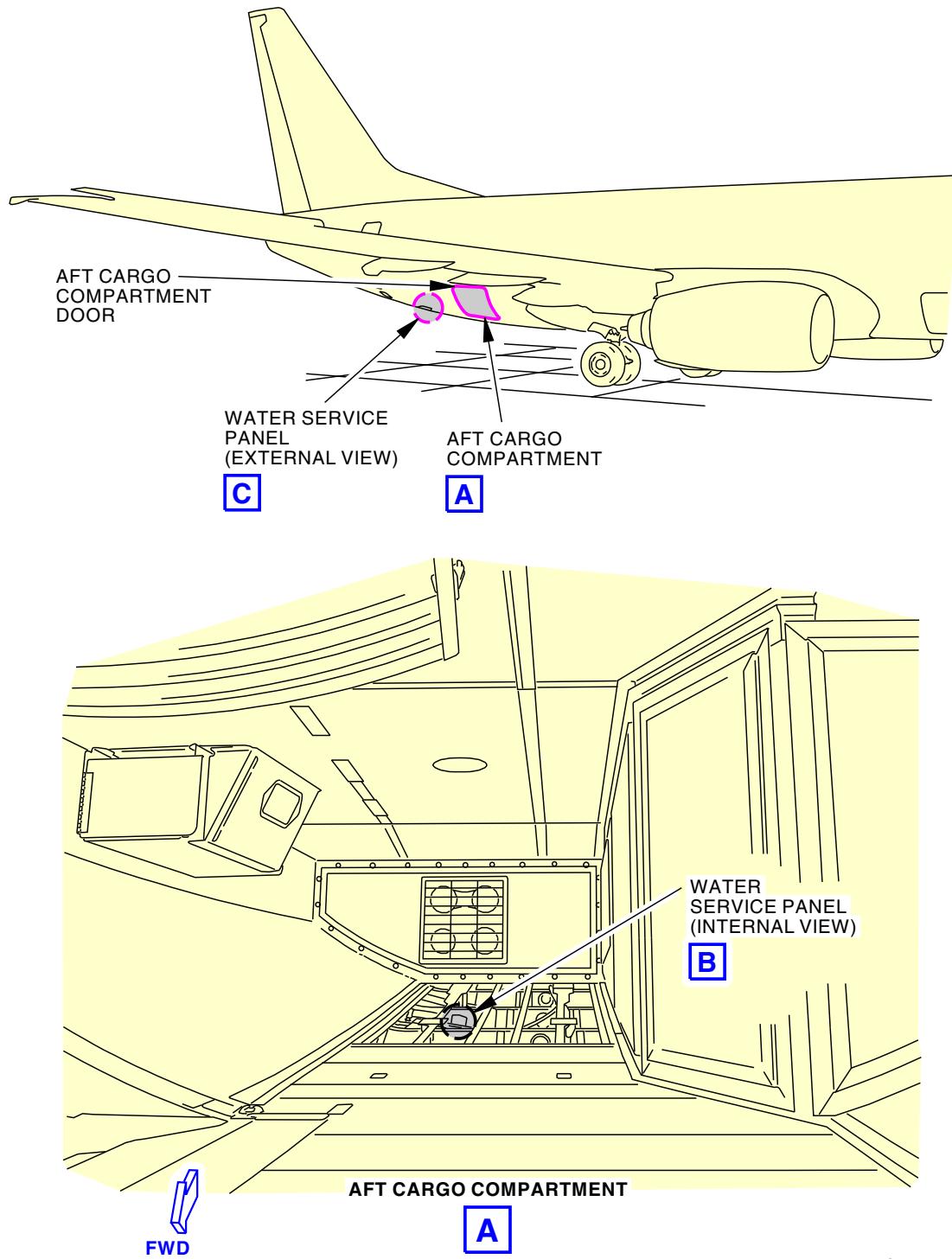
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Potable Water Fill Fitting Installation
Figure 401/38-11-09-990-802 (Sheet 1 of 2)

EFFECTIVITY
LOM ALL

38-11-09

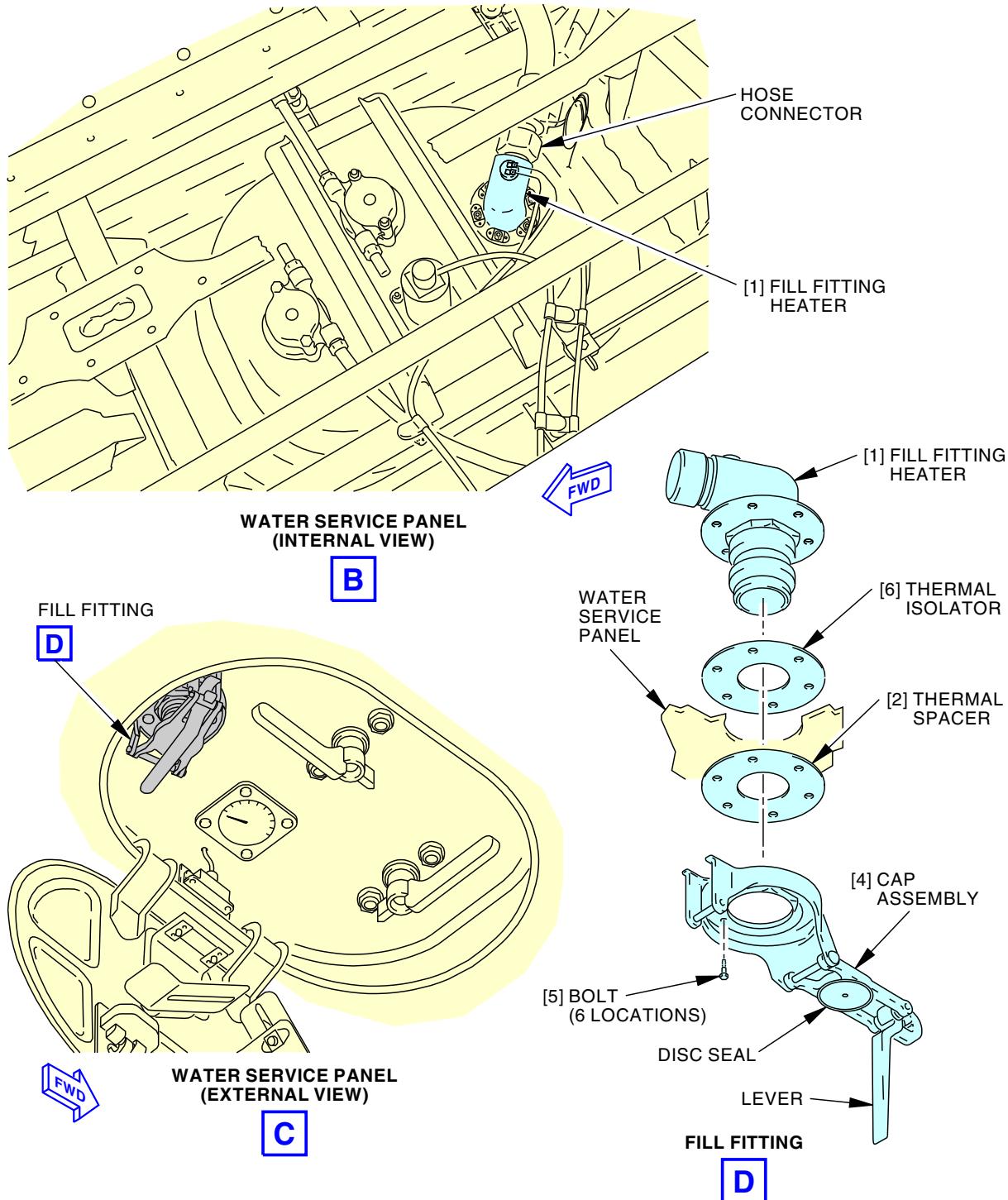
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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AIRCRAFT MAINTENANCE MANUAL



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Potable Water Fill Fitting Installation
Figure 401/38-11-09-990-802 (Sheet 2 of 2)

EFFECTIVITY
LOM ALL

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ECCN 9E991 BOEING PROPRIETARY - See title page for details



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AIRCRAFT MAINTENANCE MANUAL

TASK 38-11-09-400-801

3. Potable Water Fill Fitting - Installation

(Figure 401)

A. References

Reference	Title
12-14-01-600-802	Potable Water Tank - Fill (P/B 301)
20-10-44-400-801	Lockwire, Cotter Pins, and Lockrings - Installation (P/B 401)
25-52-10-400-801	Cargo Floor Panel - Installation (P/B 401)
25-52-19-400-801	Aft Cargo Compartment Aft Bulkhead Liner - Installation (P/B 401)
38-10-00-600-801	Potable Water System - Disinfectant (P/B 201)

B. Consumable Materials

Reference	Description	Specification
A00247	Sealant - Pressure And Environmental - Chromate Type	BMS5-95

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Fitting	38-11-03-03-250	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420
		38-11-03-03A-250	LOM 422-434, 437-447, 450-999

D. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
142	Aft Cargo Compartment - Right

E. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
146AR	Water Service Door
822	Aft Cargo Door

F. Potable Water Fill Fitting Installation

SUBTASK 38-11-09-420-003

- (1) Apply sealant, A00247, to the thermal isolator [6], thermal spacer [2], fill heater fittings [1], and fill cap assembly [4] on the surface that is adjacent to the structure.

SUBTASK 38-11-09-420-004

- (2) Put the fill heater fitting [1] and thermal spacer [2] in their positions.

SUBTASK 38-11-09-420-005

- (3) Put the fill cap assembly [4] and thermal isolator [6] in their positions.

SUBTASK 38-11-09-420-006

- (4) Install the bolts [5] wet with sealant, A00247, to connect the fill cap assembly [4] to the structure.

SUBTASK 38-11-09-420-007

- (5) Connect the heated hose to the fill heater fitting [1].

EFFECTIVITY
LOM ALL

38-11-09



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- (a) Tighten the heated hose to the fill heater fitting [1] to 620 ± 80 in-lb (70 ± 9 N·m).

SUBTASK 38-11-09-420-008

- (6) Use the double twist method to install the lockwire through the nipple and fill cap assembly [4] (TASK 20-10-44-400-801).

SUBTASK 38-11-09-670-001

- (7) Do this task: Potable Water System - Disinfectant, TASK 38-10-00-600-801.

G. Potable Water Fill Fitting Installation Test

SUBTASK 38-11-09-860-002



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.

- (1) Close these circuit breakers:

Power Distribution Panel Number 1, P91

Row Col Number Name

LOM 402, 404, 406

A 18 C00873 POT WATER COMPRESSOR

LOM 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-999

D 11 C00873 POT WATER COMPRESSOR

LOM ALL

SUBTASK 38-11-09-410-009

- (2) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-11-09-860-005

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

CAPT Electrical System Panel, P18-3

Row Col Number Name

D 18 C01463 WASTE/WTR LINE HEATERS

E 18 C01473 HOSE HEATERS

SUBTASK 38-11-09-710-001

- (4) Do this task: Potable Water Tank - Fill, TASK 12-14-01-600-802.

- (a) Make sure that there is no leakage at the water fill fitting.

EFFECTIVITY
LOM ALL

38-11-09



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H. Put the Airplane Back to Its Usual Condition

SUBTASK 38-11-09-410-001



WARNING

SEAL THE CARGO COMPARTMENT WITH THE LINING. OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN YOU INSTALL THE LINING. IF YOU INSTALL THE LINING INCORRECTLY, THE SMOKE CAN GET INTO THE PASSENGER COMPARTMENT DURING A FIRE.

- (1) Do this task: Cargo Floor Panel - Installation, TASK 25-52-10-400-801.

SUBTASK 38-11-09-410-005

- (2) Do this task: Aft Cargo Compartment Aft Bulkhead Liner - Installation, TASK 25-52-19-400-801.

SUBTASK 38-11-09-410-002

- (3) Close this access panel:

<u>Number</u>	<u>Name/Location</u>
822	Aft Cargo Door

SUBTASK 38-11-09-410-003

- (4) Close this access panel:

<u>Number</u>	<u>Name/Location</u>
146AR	Water Service Door

———— END OF TASK ————

EFFECTIVITY
LOM ALL

38-11-09



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AIRCRAFT MAINTENANCE MANUAL
WATER HEATER - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
 - (1) A removal of the water heater
 - (2) An installation of the water heater.
- B. The water heater is below the sink in the lavatory compartment.

TASK 38-13-01-000-801

2. Water Heater Removal

(Figure 401)

A. References

Reference	Title
12-14-01-600-801	Potable Water System - Drain (P/B 301)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Prepare for the Removal

SUBTASK 38-13-01-865-001

- (1) Open the applicable circuit breaker for the lavatory you work in.

SUBTASK 38-13-01-860-001

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	13	C00104	LAVATORY WATER HEATER A
LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-999	F	14	C01073 LAVATORY WATER HEATER D
LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-465	F	15	C01096 LAVATORY WATER HEATER E
LOM 445	F	16	C01510 LAVATORY WATER HEATER G

LOM ALL

NOTE: You must open the applicable circuit breaker for the lavatory you work in.

SUBTASK 38-13-01-860-002

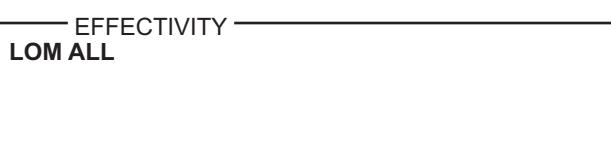
- (3) Get access to the lavatory.

SUBTASK 38-13-01-010-001

- (4) Open the door of the cabinet below the sink.

SUBTASK 38-13-01-040-001

- (5) Turn the handle for the water shutoff valve to the OFF position.



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AIRCRAFT MAINTENANCE MANUAL

LOM ALL; AIRPLANES WITH FORWARD LAVATORY

SUBTASK 38-13-01-680-001

- (6) Make sure the drain valve for the forward lavatory is in the OPEN TO DRAIN position.

LOM ALL

SUBTASK 38-13-01-040-002

- (7) Open the faucet to release the pressure and to drain some of the water.

SUBTASK 38-13-01-680-002

- (8) If it is necessary, do this task: Potable Water System - Drain, TASK 12-14-01-600-801.

D. Water Heater Removal

SUBTASK 38-13-01-020-001

- (1) Disconnect the electrical connector.

SUBTASK 38-13-01-020-002

- (2) Disconnect the water outlet hose from the side of the water heater [1].
 - (a) Put a cloth under the water heater to absorb the extra water.

SUBTASK 38-13-01-020-003

- (3) Disconnect the water inlet from the bottom of the water heater [1].
 - (a) Put a cloth under the water heater to absorb the extra water.

SUBTASK 38-13-01-020-004

- (4) Disconnect the clamp [2].

SUBTASK 38-13-01-020-005

- (5) Remove the water heater [1].

———— END OF TASK ————

TASK 38-13-01-400-801

3. Water Heater Installation

(Figure 401)

A. References

Reference	Title
12-14-01-600-802	Potable Water Tank - Fill (P/B 301)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Water Heater Installation

SUBTASK 38-13-01-420-001

- (1) Put the water heater [1] in its position.

SUBTASK 38-13-01-420-002

- (2) Connect the clamp [2] for the water heater [1].

NOTE: Do not tighten the clamp [2] until a step that follows.

SUBTASK 38-13-01-420-003

- (3) Connect the water inlet to the bottom of the water heater [1].

SUBTASK 38-13-01-420-004

- (4) Connect the water outlet hose to the side of the water heater [1].

EFFECTIVITY
LOM ALL

38-13-01



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AIRCRAFT MAINTENANCE MANUAL

SUBTASK 38-13-01-420-005

- (5) Connect the electrical connector to the water heater [1].

SUBTASK 38-13-01-420-006

- (6) Tighten the clamp [2].

D. Put the Airplane Back in the Usual Condition.

SUBTASK 38-13-01-680-003

- (1) If it is necessary, do this task: Potable Water Tank - Fill, TASK 12-14-01-600-802.

LOM ALL; AIRPLANES WITH FORWARD LAVATORY

SUBTASK 38-13-01-860-003

- (2) Move the drain valve in the forward lavatory to the CLOSED position.

LOM ALL

SUBTASK 38-13-01-440-001

- (3) Turn the handle for the water shutoff valve to the ON position.

SUBTASK 38-13-01-860-004

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

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	13	C00104	LAVATORY WATER HEATER A
LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-999			
F	14	C01073	LAVATORY WATER HEATER D
LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-465			
F	15	C01096	LAVATORY WATER HEATER E
LOM 445			
F	16	C01510	LAVATORY WATER HEATER G

LOM ALL

SUBTASK 38-13-01-790-001

- (5) Make sure the water hose connections at the water heater do not have a leak.

SUBTASK 38-13-01-710-001

- (6) After 5 minutes, open the hot water faucet to make sure that the water is hot.

- (a) If the water is not at the correct temperature, move the temperature select switch to a higher or lower temperature position.

SUBTASK 38-13-01-020-006

- (7) Remove the cloth from below the water heater [1].

SUBTASK 38-13-01-410-001

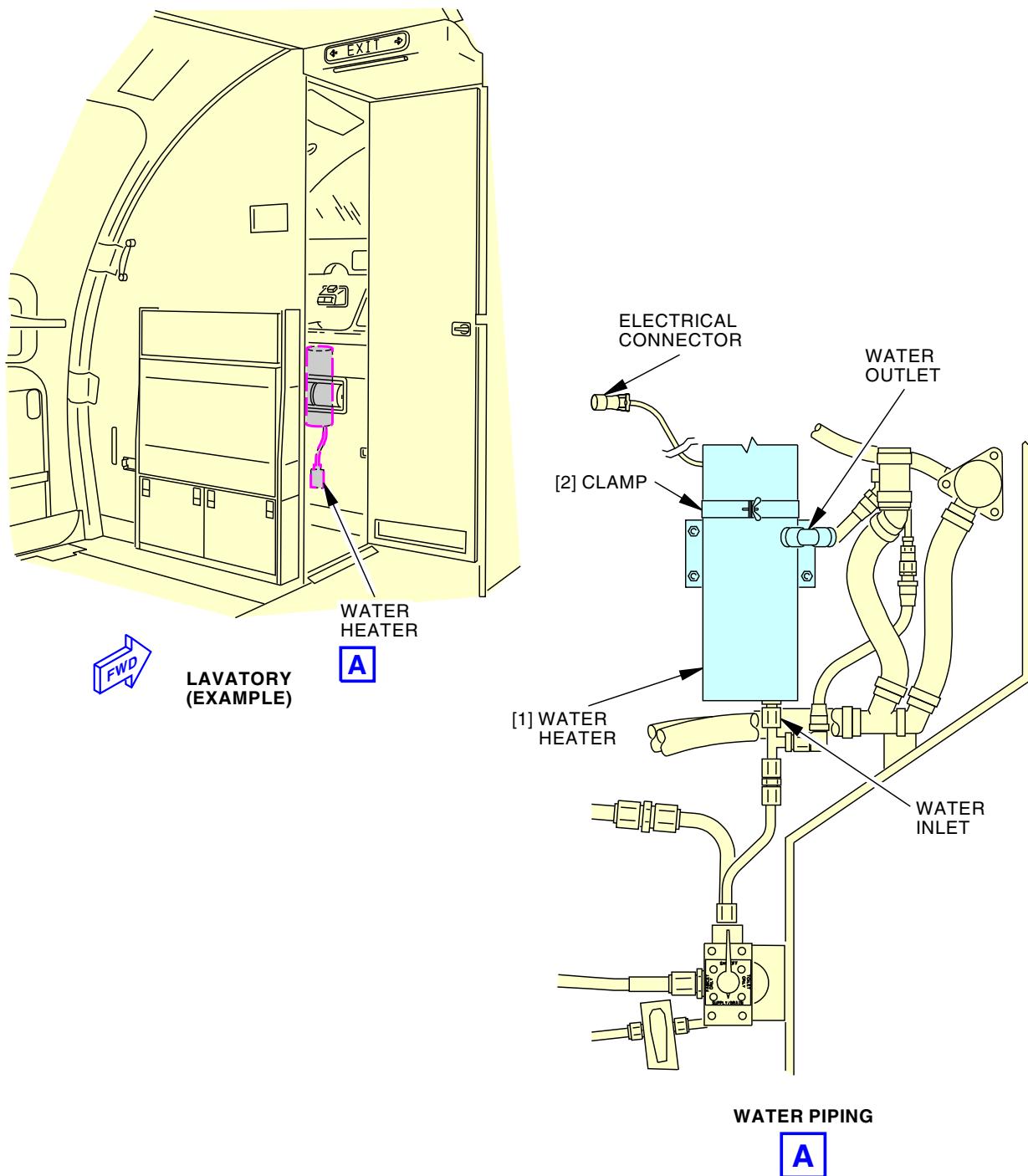
- (8) Close the door to the cabinet below the sink.

———— END OF TASK ————



38-13-01

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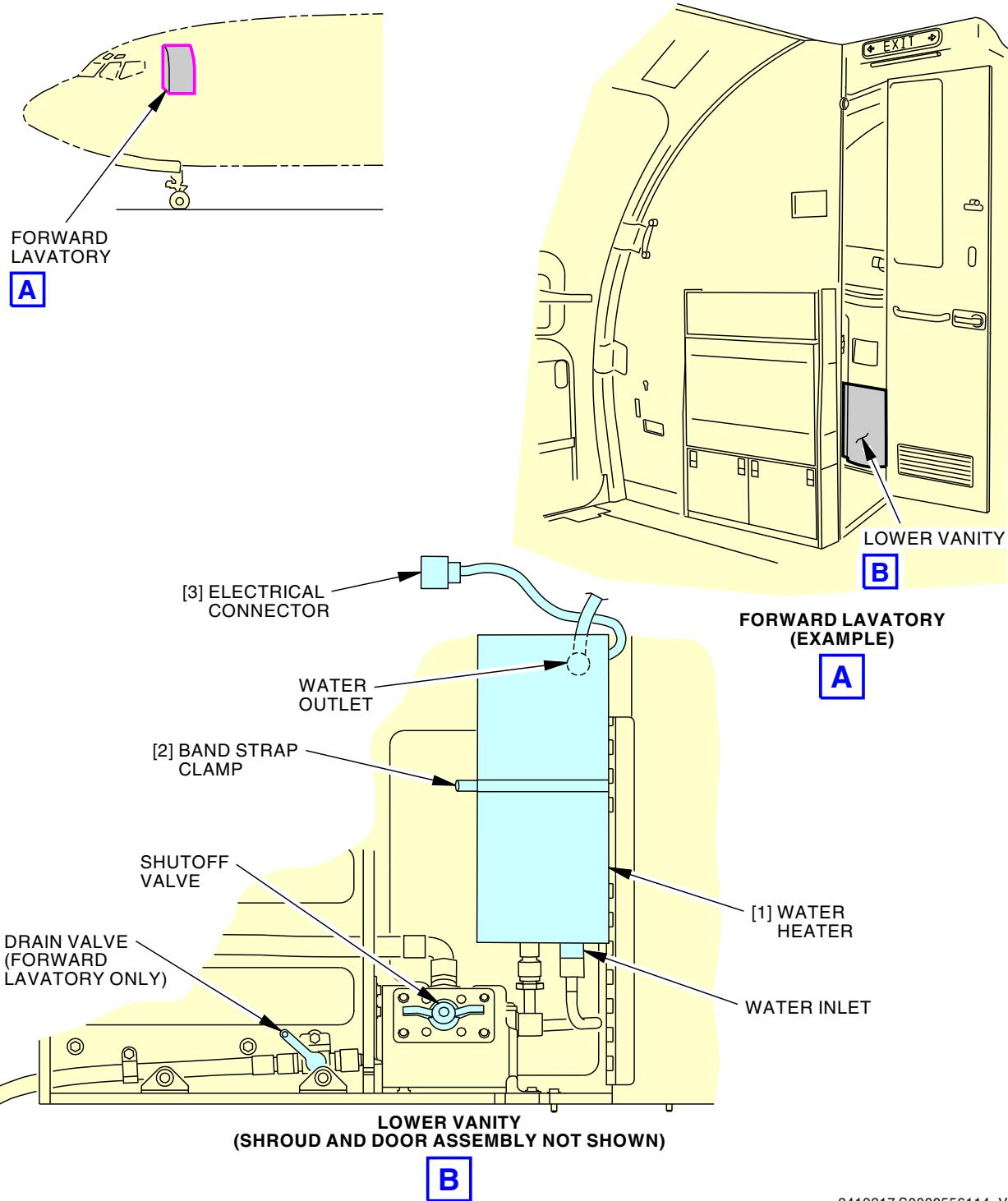
Water Heater Installation
Figure 401/38-13-01-990-801 (Sheet 1 of 2)

EFFECTIVITY
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
422-434, 437-447, 450-464

38-13-01

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details



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Water Heater Installation
Figure 401/38-13-01-990-801 (Sheet 2 of 2)

EFFECTIVITY
LOM 465-999

38-13-01



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

WATER QUANTITY TRANSMITTER - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
- (1) A removal of the water quantity transmitter
 - (2) An installation of the water quantity transmitter.

TASK 38-14-01-000-801

2. Water Quantity Transmitter Removal

(Figure 401)

A. References

Reference	Title
25-52-19-000-801	Aft Cargo Compartment Aft Bulkhead Liner - Removal (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-2481	Sealant Removal Tool (Meets BSS7384 Requirements) Part #: 1-6390-A Supplier: 63318 Part #: 10810 Supplier: \$0855 Part #: 10811 Supplier: \$0855 Part #: 10812 Supplier: \$0855 Part #: 234350 Supplier: 5HCF1 Part #: 235072 Supplier: 5HCF1 Part #: 235073 Supplier: 5HCF1 Part #: 235074 Supplier: 5HCF1 Part #: 235075 Supplier: 5HCF1 Part #: 235076 Supplier: 5HCF1 Part #: 311/03 Supplier: F6892 Part #: 311/14 Supplier: F6892 Part #: 311/25 Supplier: F6892 Part #: 311/37 Supplier: F6892 Part #: AS1 Supplier: \$1351 Part #: AS2 Supplier: \$1351 Part #: AS3 Supplier: \$1351 Part #: DAD5013 Supplier: 7RKH2 Part #: DFD5019 Supplier: 7RKH2 Part #: JNT411B60 Supplier: 3DN12 Part #: JNT411B90 Supplier: 3DN12 Part #: PT6529-S Supplier: 81205 Part #: SCD5019 Supplier: 7RKH2 Part #: ST982LF-9 Supplier: 81205 Part #: TS1275-4 Supplier: 22975

C. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
142	Aft Cargo Compartment - Right



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AIRCRAFT MAINTENANCE MANUAL

D. Access Panels

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

E. Prepare for the Removal

SUBTASK 38-14-01-010-007

- (1) To get access to the P91 panel, open this access panel:

Number Name/Location

117A	Electronic Equipment Access Door
------	----------------------------------

SUBTASK 38-14-01-860-006



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.

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

Power Distribution Panel Number 1, P91

Row Col Number Name

LOM 402, 404, 406

A 18 C00873 POT WATER COMPRESSOR

LOM ALL

C 9 C00138 WATER QTY IND

LOM 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-999

D 11 C00873 POT WATER COMPRESSOR

LOM ALL

SUBTASK 38-14-01-010-002

- (3) Open this access panel:

Number Name/Location

822	Aft Cargo Door
-----	----------------

SUBTASK 38-14-01-860-008

- (4) Do this task: Aft Cargo Compartment Aft Bulkhead Liner - Removal, TASK 25-52-19-000-801.

F. Water Quantity Transmitter Removal

SUBTASK 38-14-01-020-002

- (1) Disconnect the electrical connector [17].

SUBTASK 38-14-01-020-003

- (2) Remove the screws [18] and washers [19] that attach the cover [20] to the water tank.

EFFECTIVITY
LOM ALL

38-14-01



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AIRCRAFT MAINTENANCE MANUAL

SUBTASK 38-14-01-020-004

- (3) Remove the screw [21] and washer [22] that attach the connector [23] to the terminal.
 - (a) Use a sealant removal tool, COM-2481, or equivalent, to carefully remove sealant that was applied to the connector [23].

SUBTASK 38-14-01-020-005

- (4) Remove the screw [2], washers [3], clamp [4], clamp [5], and nut [6] to disconnect the coaxial wire from the structure.

SUBTASK 38-14-01-020-006

- (5) Remove the screw [7], washer [8], clamp [9], and spacer [10] to disconnect the coaxial wire from the structure.

SUBTASK 38-14-01-020-007

- (6) Remove the screws [15] and nuts [16] to disconnect the transmitter connector from the bracket [13].

SUBTASK 38-14-01-020-008

- (7) Remove the screws [11] and washers [12].

SUBTASK 38-14-01-020-009

- (8) Remove the water quantity transmitter [1].

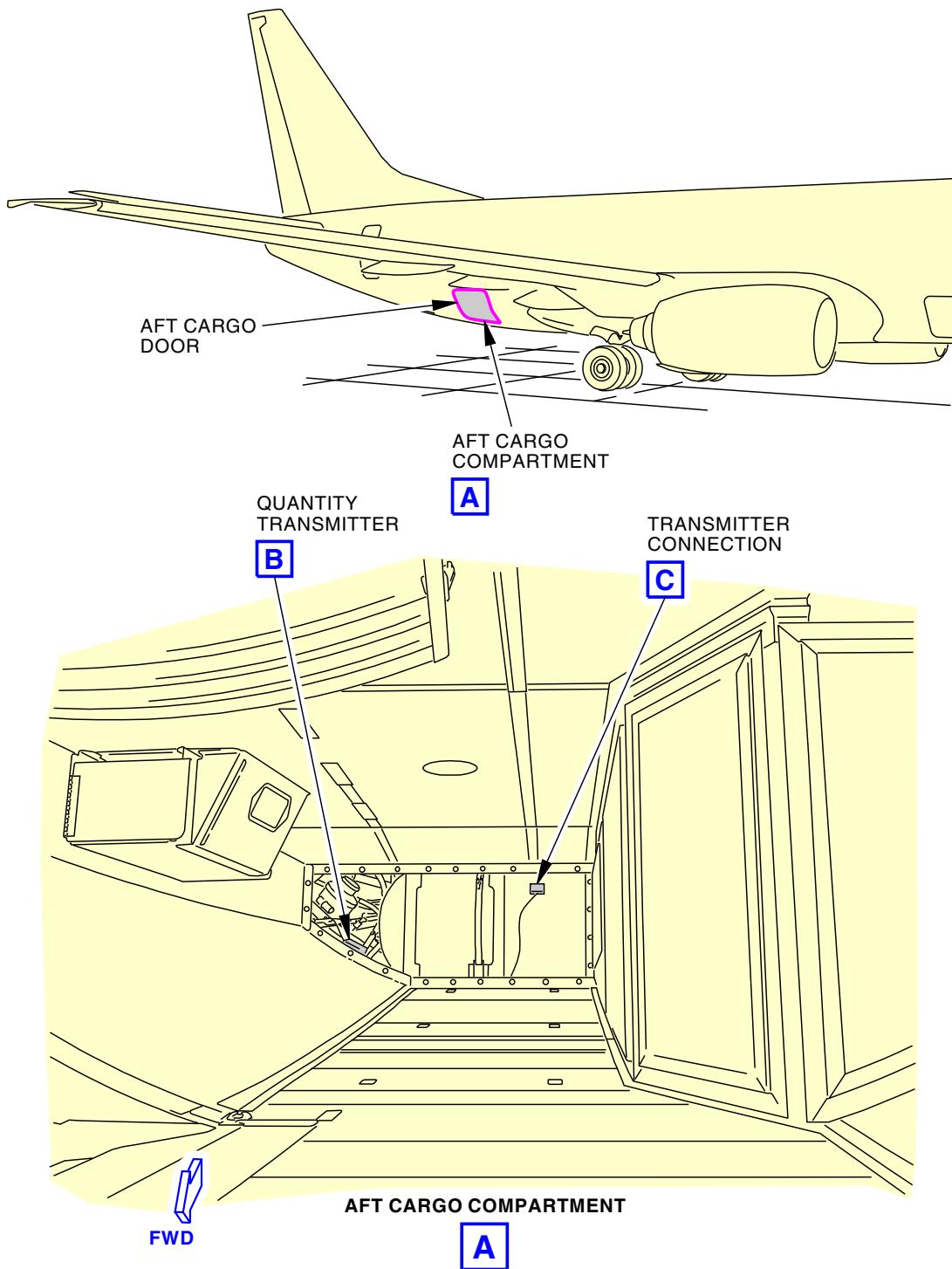
———— END OF TASK ————

EFFECTIVITY
LOM ALL

38-14-01



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



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Water Quantity Transmitter Installation
Figure 401/38-14-01-990-803 (Sheet 1 of 2)

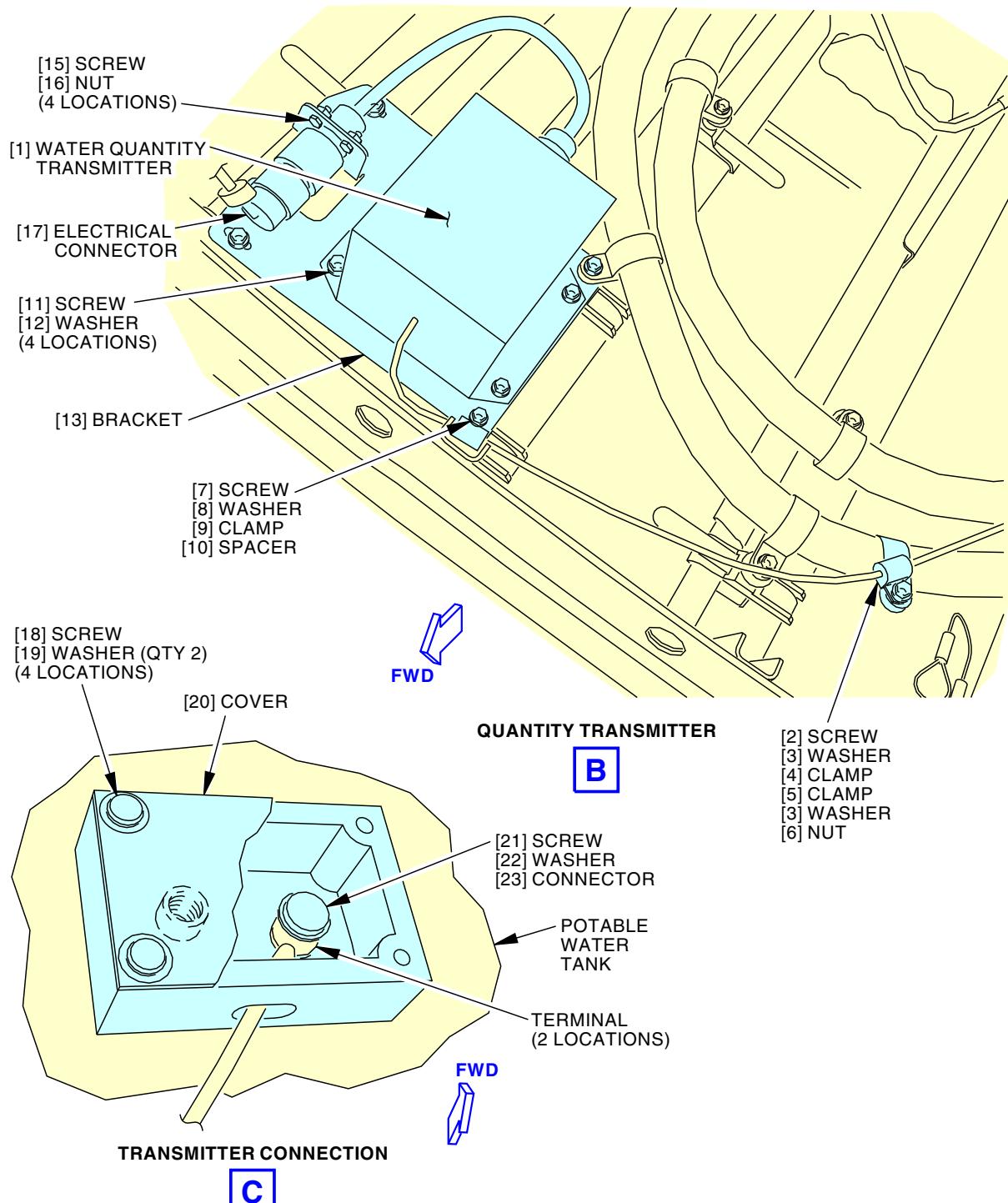
EFFECTIVITY
LOM ALL

38-14-01

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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Water Quantity Transmitter Installation
Figure 401/38-14-01-990-803 (Sheet 2 of 2)

EFFECTIVITY
 LOM ALL

38-14-01



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

TASK 38-14-01-400-801

3. Water Quantity Transmitter Installation

(Figure 401)

A. General

- (1) This procedure provides instructions to install the water quantity transmitter.

B. References

Reference	Title
38-14-01-800-801	Water Quantity Transmitter Adjustment (P/B 501)
SWPM 20-20-00	ELECTRICAL BONDING PROCESSES

C. Tools/Equipment

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

Reference	Description
COM-614	Bonding Meters - Non-Intrinsically Safe (For use in outside Class I, Divisions I & II non-hazardous locations. For hazardous locations, use COM-1550). Part #: 247000 Supplier: 00426 Part #: 620LK Supplier: 1CRL2 Part #: BLR-0003-XX Supplier: KC432 Part #: BT51 Supplier: 00426 Part #: M1 Supplier: 3AD17 Part #: M1B Supplier: 3AD17 Part #: T477W (C15292) Supplier: 06659 Opt Part #: 247001 Supplier: 00426

D. Consumable Materials

Reference	Description	Specification
A50231	Sealant - Pressure And Environmental - Chromate Type	BMS5-95 Class B
A50337	Sealant - Fuel Tank	BMS5-45 Class B
A50359	Sealant - Low Density, Non-Chromate Type	BMS5-142 Type II Class B
B00130	Alcohol - Isopropyl	TT-I-735
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	AMS3819 Class 1 Grade A or B Form 1 (Supersede BMS15-5 CLA)

E. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Transmitter	38-14-01-01-035	LOM 407, 411, 416, 420, 426-428, 439, 441, 445-447, 451, 452, 455, 456, 458-464



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(Continued)

AMM Item	Description	AIPC Reference	AIPC Effectivity
1 (cont.)		38-14-01-04-075	LOM 402, 404, 406, 412, 415, 422-425, 429-434, 437, 438, 440, 442-444, 450, 453, 454, 457, 465-999

F. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
142	Aft Cargo Compartment - Right

G. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

H. Water Quantity Transmitter Installation

SUBTASK 38-14-01-420-003

- (1) Put the transmitter [1] its position on the bracket [13].

SUBTASK 38-14-01-420-004

- (2) Install the screws [11] and washers [12] to connect the water quantity transmitter [1] to the bracket [13].

SUBTASK 38-14-01-420-005

- (3) Install the screws [15] and nuts [16] to connect the transmitter connector to the bracket [13].

SUBTASK 38-14-01-420-006

- (4) Install the screw [7], washer [8], clamp [9], and spacer [10] to connect the coaxial wire to the structure.

SUBTASK 38-14-01-420-007

- (5) Install the screw [2], washers [3], clamp [4], clamp [5], and nut [6] to connect the coaxial wire to the structure.

SUBTASK 38-14-01-420-008

- (6) Install the connector [23] in its position on the water tank as follows:

NOTE: There are two transmitter cable connector terminals on the water tank. The transmitter cable connector may be connected to either terminal. Each terminal is attached to the sensor grid within the tank sidewall.

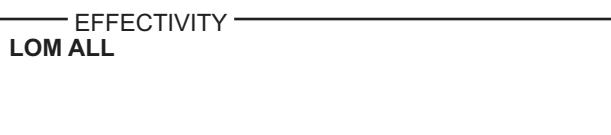
- (a) Use cotton wiper, G00034, moist in alcohol, B00130, to clean the mating surfaces of the screw [21], washer [22], and connector [23].

- (b) Install the screw [21] and washer [22] to attach the connector [23] to the terminal.

- (c) Tighten the screw [21] to 35 ± 2 in-lb (4.0 ± 0.2 N·m).

- (d) Measure the electrical resistance between washer [22] and the second connector terminal in the housing (SWPM 20-20-00).
 - 1) Use a non-intrinsically safe bonding meter, COM-614.
 - 2) Make sure that the electrical bonding resistance is 0.008 ohm (8.0 milliohm) or less.

- (e) Apply fillet seal with sealant, A50337, or sealant, A50231, or sealant, A50359, to the screw [21], washer [22], and connector [23].



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SUBTASK 38-14-01-420-009

- (7) Install the screws [18] and washers [19] to attach the cover [20] to the water tank.

SUBTASK 38-14-01-420-010

- (8) Connect the electrical connector [17].

I. Water Quantity Transmitter Installation Test

SUBTASK 38-14-01-860-007



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.

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

Power Distribution Panel Number 1, P91

Row Col Number Name

LOM 402, 404, 406

A 18 C00873 POT WATER COMPRESSOR

LOM ALL

C 9 C00138 WATER QTY IND

LOM 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-999

D 11 C00873 POT WATER COMPRESSOR

LOM ALL

SUBTASK 38-14-01-410-010

- (2) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-14-01-820-005

- (3) Do this task: Water Quantity Transmitter Adjustment, TASK 38-14-01-800-801.

— END OF TASK —

EFFECTIVITY
LOM ALL

38-14-01



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

WATER QUANTITY TRANSMITTER - ADJUSTMENT/TEST

1. General

- A. This procedure has this task:
- (1) An adjustment of the water quantity transmitter.

TASK 38-14-01-800-801

2. Water Quantity Transmitter Adjustment

(Figure 501)

A. References

Reference	Title
12-14-01-600-801	Potable Water System - Drain (P/B 301)
12-14-01-600-802	Potable Water Tank - Fill (P/B 301)
25-52-19-000-801	Aft Cargo Compartment Aft Bulkhead Liner - Removal (P/B 401)
25-52-19-400-801	Aft Cargo Compartment Aft Bulkhead Liner - 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-1793	Multimeter - Digital/Analog (or equivalent meter meets task requirements) Part #: 117 Supplier: 89536 Part #: 260-8XPI Supplier: 55026 Part #: 287 Supplier: 89536 Part #: 289 Supplier: 89536 Part #: 87V Supplier: 89536 Part #: FLUKE 27 II Supplier: 89536 Part #: FLUKE-77-4 Supplier: 89536 Opt Part #: 187 Supplier: 89536 Opt Part #: 189 Supplier: 89536 Opt Part #: 21 Supplier: 89536 Opt Part #: 27 Supplier: 89536 Opt Part #: 77 SERIES III Supplier: 89536 Opt Part #: 87 Supplier: 89536 Opt Part #: FLUKE 27 Supplier: 89536 Opt Part #: MODEL 27 Supplier: 89536
SPL-1949	Cable - Test, Potable Water Quantity Transmitter Part #: A38010-11 Supplier: 81205 Part #: A38010-45 Supplier: 81205

C. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
142	Aft Cargo Compartment - Right

D. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

EFFECTIVITY
LOM ALL

38-14-01



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AIRCRAFT MAINTENANCE MANUAL

(Continued)

Number Name/Location

822 Aft Cargo Door

E. Prepare for the Adjustment

SUBTASK 38-14-01-410-001

- (1) Open this access panel:

Number Name/Location

822 Aft Cargo Door

SUBTASK 38-14-01-010-001

- (2) To remove the end wall in the aft cargo compartment, do this task: Aft Cargo Compartment Aft Bulkhead Liner - Removal, TASK 25-52-19-000-801.

SUBTASK 38-14-01-610-001

- (3) Do this task: Potable Water Tank - Fill, TASK 12-14-01-600-802.

NOTE: Keep the water hose connected after the water tank is filled.

SUBTASK 38-14-01-680-001

- (4) Do this task: Potable Water System - Drain, TASK 12-14-01-600-801.

NOTE: The inner area of the water tank must be wet to make an accurate calibration of the water quantity transmitter.

SUBTASK 38-14-01-010-008

- (5) To get access to the P91 panel, open this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-14-01-860-001



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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	9	C00138	WATER QTY IND

SUBTASK 38-14-01-020-010

- (7) Disconnect the D192 airplane electrical connector from the adapter cable.

EFFECTIVITY
LOM ALL

38-14-01



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

SUBTASK 38-14-01-480-001

- (8) Install the potable water quantity transmitter test cable, SPL-1949, between the D192 airplane electrical connector and adapter cable.

SUBTASK 38-14-01-480-002

- (9) Connect the digital/analog multimeter, COM-1793, to the test points on the test cable.

SUBTASK 38-14-01-860-002



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.



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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	9	C00138	WATER QTY IND

F. Water Quantity Transmitter Adjustment

SUBTASK 38-14-01-820-001

- (1) Measure the voltage between the test points.

SUBTASK 38-14-01-820-002

- (2) If the voltage is not 0 ± 0.2 vdc, do these steps:

- On the potable water transmitter, find the adjustment screw labeled "Empty".
- Turn the adjustment screw until the voltage is 0 ± 0.2 vdc on the multimeter.

SUBTASK 38-14-01-610-002

- (3) Do this task: Potable Water Tank - Fill, TASK 12-14-01-600-802.

SUBTASK 38-14-01-820-003

- (4) Measure the voltage between the test points on the cable.

SUBTASK 38-14-01-820-004

- (5) If the voltage is not -10 ± 0.2 vdc, do these steps:

- Find the adjustment screw with the FULL mark.
- Turn this FULL adjustment screw until the voltage is -10 ± 0.2 vdc on the multimeter.

EFFECTIVITY
LOM ALL

38-14-01



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

G. Put the Airplane Back to Its Usual Condition

SUBTASK 38-14-01-860-004



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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	9	C00138	WATER QTY IND

SUBTASK 38-14-01-080-001

- (2) Disconnect the digital/analog multimeter, COM-1793, from the cable.

SUBTASK 38-14-01-080-002

- (3) Remove the potable water quantity transmitter test cable, SPL-1949.

SUBTASK 38-14-01-420-002

- (4) Connect the D192 airplane electrical connector to the adapter cable.

SUBTASK 38-14-01-860-010



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) Remove the safety tag and close this circuit breaker:

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	9	C00138	WATER QTY IND

EFFECTIVITY
LOM ALL

38-14-01

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ECCN 9E991 BOEING PROPRIETARY - See title page for details



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SUBTASK 38-14-01-410-011

- (6) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-14-01-860-009

- (7) Make sure that the indicator on the attendant control panel shows FULL.

SUBTASK 38-14-01-410-003



WARNING

SEAL THE CARGO COMPARTMENT WITH THE LINING. OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN YOU INSTALL THE LINING. IF YOU INSTALL THE LINING INCORRECTLY, THE SMOKE CAN GET INTO THE PASSENGER COMPARTMENT DURING A FIRE.

- (8) Do this task: Aft Cargo Compartment Aft Bulkhead Liner - Installation, TASK 25-52-19-400-801.

SUBTASK 38-14-01-410-004

- (9) Close this access panel:

Number Name/Location

822 Aft Cargo Door

———— END OF TASK ————

EFFECTIVITY
LOM ALL

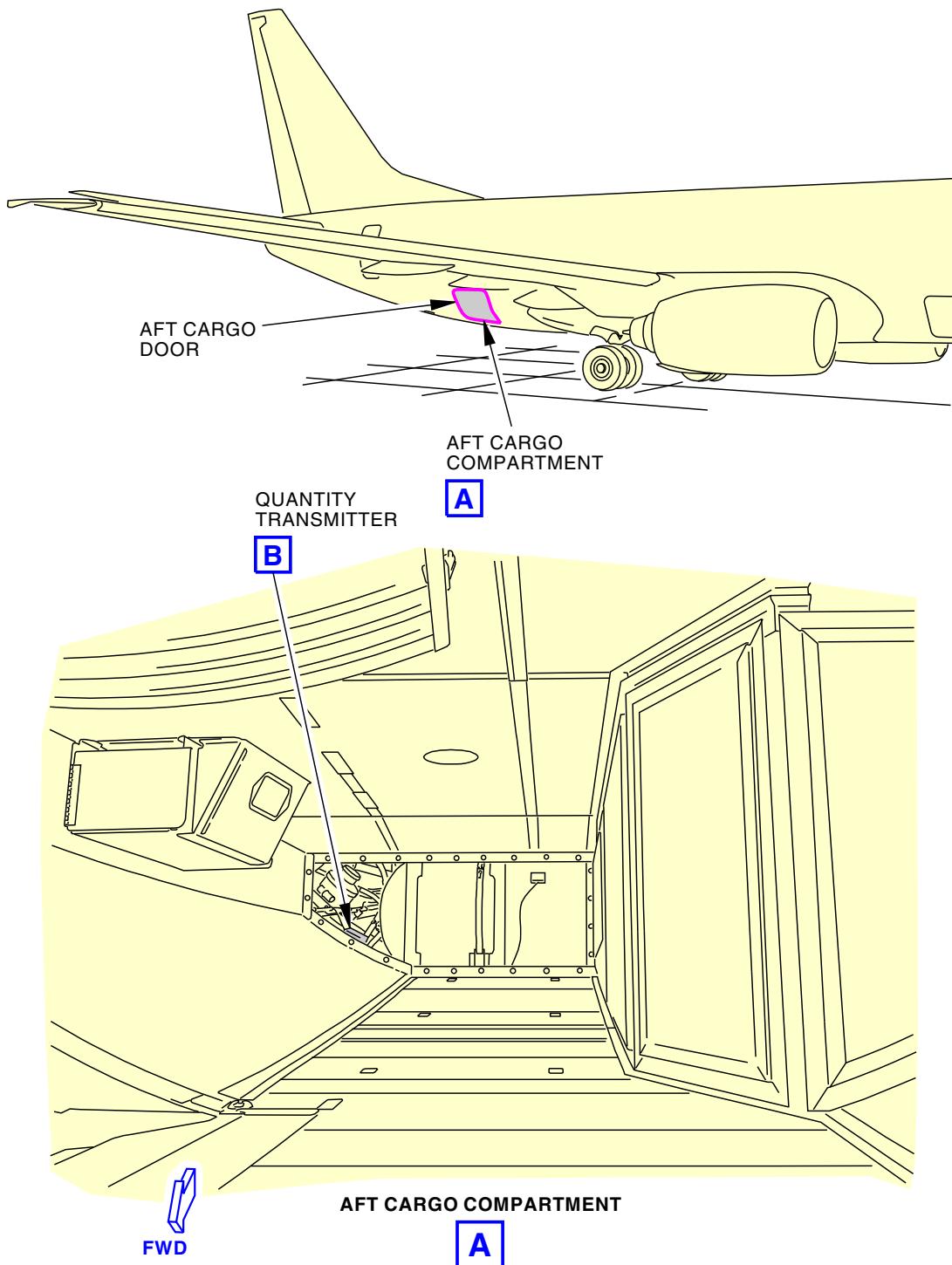
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AIRCRAFT MAINTENANCE MANUAL



G20065 S0006578301_V2

Water Quantity Transmitter Adjustment
Figure 501/38-14-01-990-801 (Sheet 1 of 2)

EFFECTIVITY
LOM ALL

38-14-01

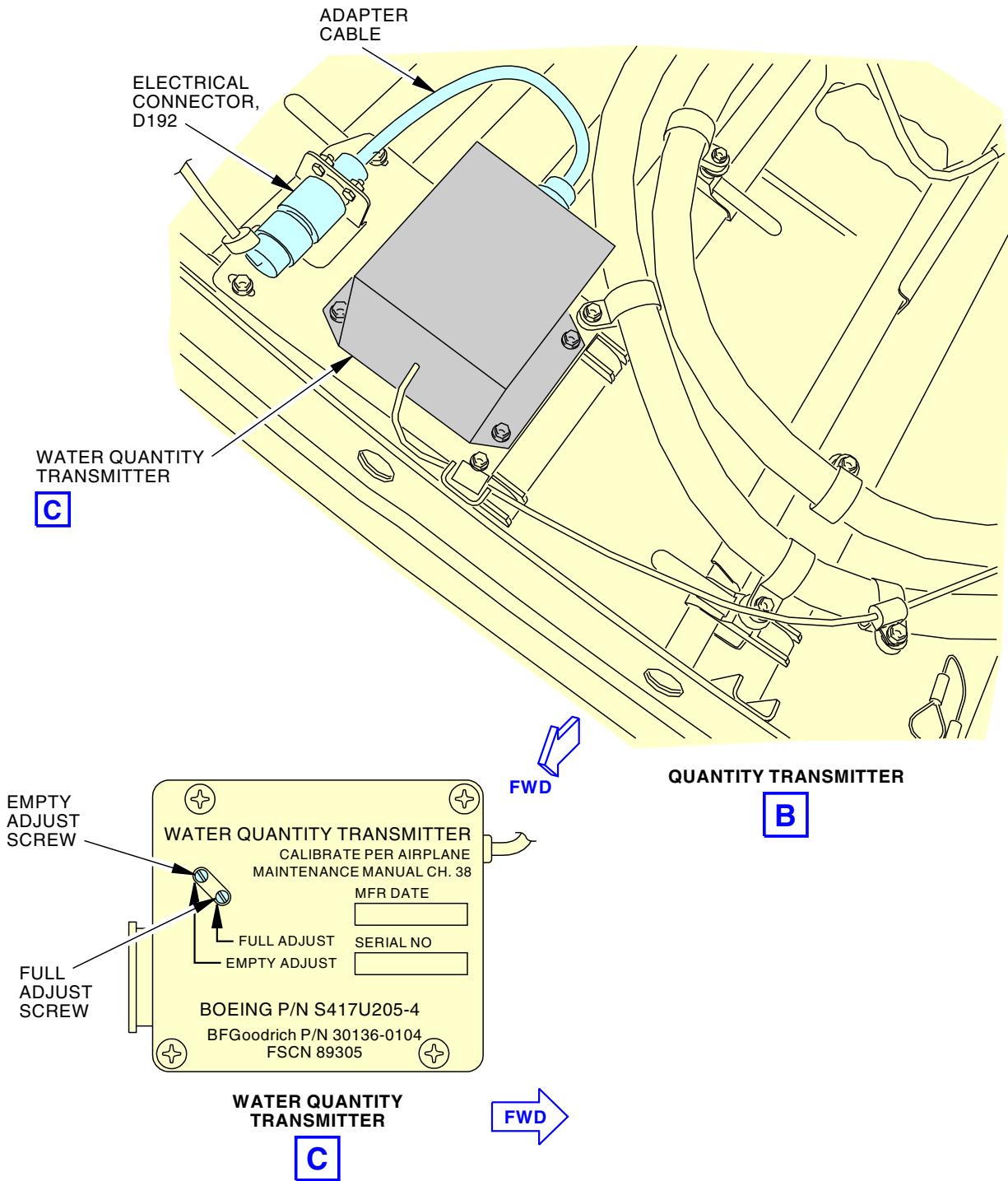
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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AIRCRAFT MAINTENANCE MANUAL



G20071 S0006578304_V4

Water Quantity Transmitter Adjustment
Figure 501/38-14-01-990-801 (Sheet 2 of 2)

EFFECTIVITY
LOM ALL

38-14-01

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AIRCRAFT MAINTENANCE MANUAL

ATTENDANT'S PANEL WATER QUANTITY INDICATOR - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
- (1) A removal of the water quantity indicator on the attendant's panel.
 - (2) An installation of the water quantity indicator on the attendant's panel.

TASK 38-14-02-000-801

2. Attendant's Panel Water Quantity Indicator Removal

(Figure 401)

A. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage

B. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

C. Prepare for the Removal

SUBTASK 38-14-02-010-001

- (1) To get access to the P91 panel, open this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-14-02-860-001



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.

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

Power Distribution Panel Number 1, P91

Row	Col	Number	Name
C	9	C00138	WATER QTY IND

SUBTASK 38-14-02-860-002

- (3) Get access to the aft attendant's panel.

EFFECTIVITY
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
422-426

38-14-02

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D. Water Quantity Indicator Removal

SUBTASK 38-14-02-020-001

- (1) Remove the screws [2] that attach the aft attendant's panel shroud [1].

SUBTASK 38-14-02-020-002

- (2) Remove the shroud [1].

NOTE: The shroud is held in its position by spring clips. You must pull on the shroud to release the spring clips.

SUBTASK 38-14-02-020-003

- (3) Remove the screws [3] and washers [4].

SUBTASK 38-14-02-020-004

- (4) Remove the water quantity indicator [5].

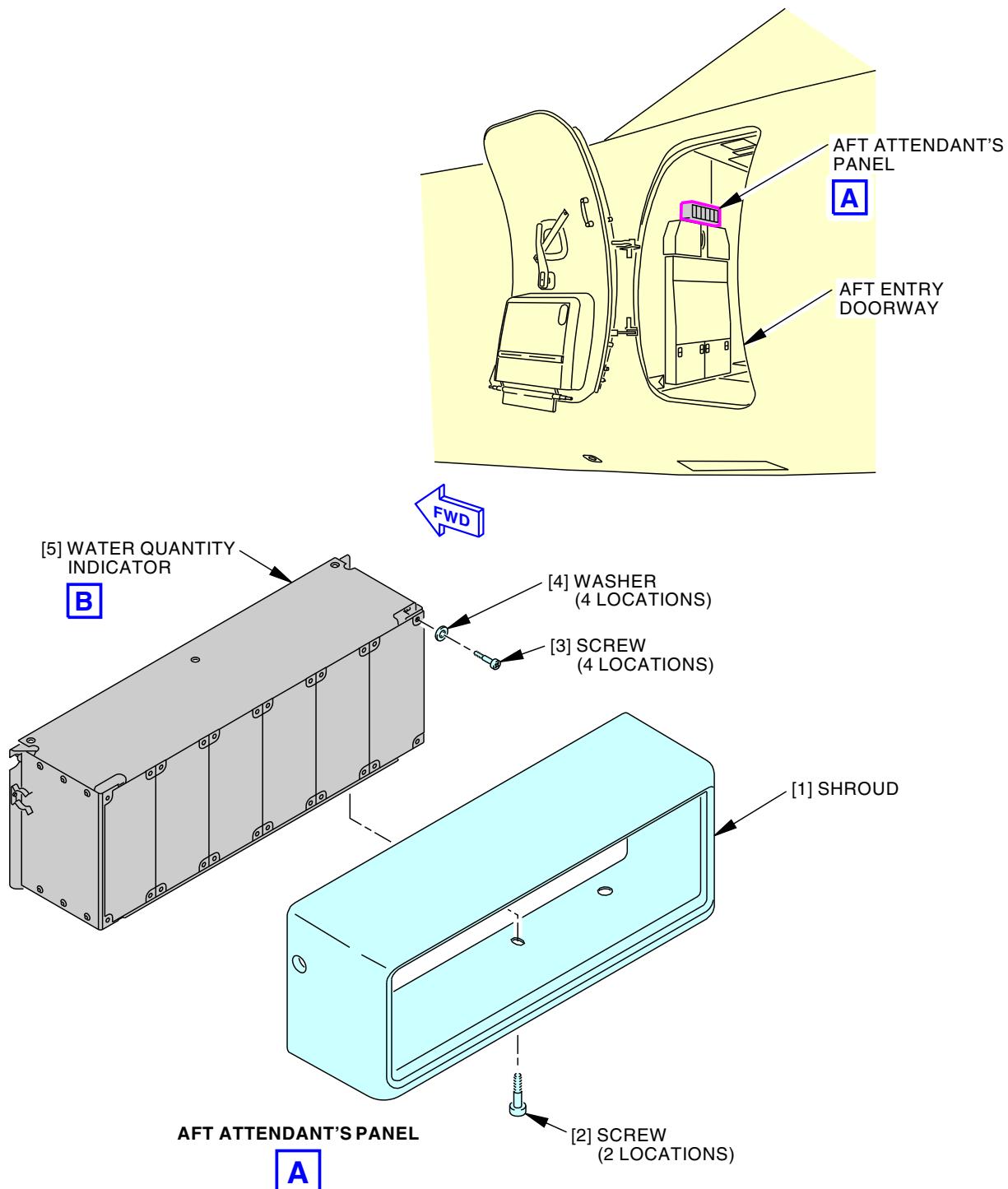
———— END OF TASK ————

EFFECTIVITY
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
422-426

38-14-02



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AIRCRAFT MAINTENANCE MANUAL



G37026 S0006578312_V2

Attendant's Panel Water Quantity Indicator Installation
Figure 401/38-14-02-990-803 (Sheet 1 of 2)

EFFECTIVITY
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
422-426

38-14-02

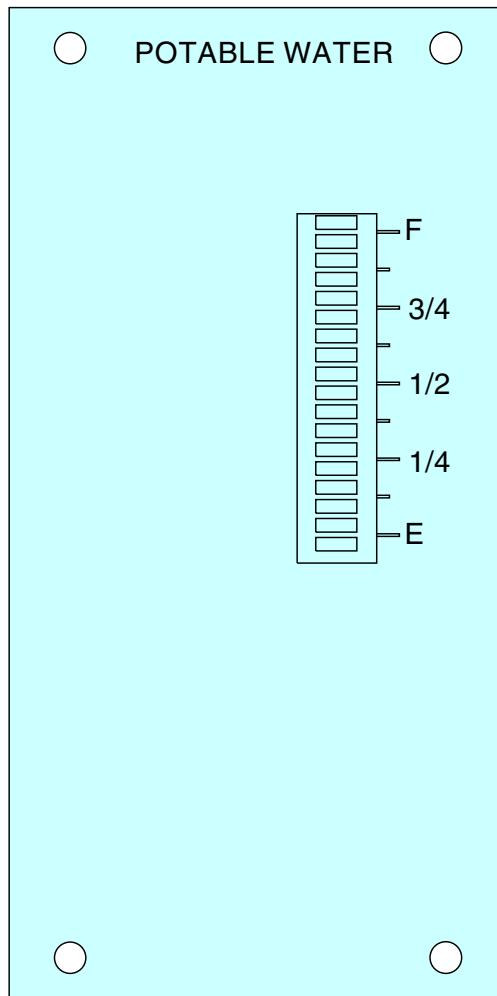
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AIRCRAFT MAINTENANCE MANUAL



WATER QUANTITY INDICATOR

B

F91498 S0006578316_V2

Attendant's Panel Water Quantity Indicator Installation
Figure 401/38-14-02-990-803 (Sheet 2 of 2)

EFFECTIVITY
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
422-426

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TASK 38-14-02-400-801

3. Attendant's Panel Water Quantity Indicator Installation

(Figure 401)

A. References

Reference	Title
12-14-01-600-801	Potable Water System - Drain (P/B 301)
12-14-01-600-802	Potable Water Tank - Fill (P/B 301)

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
5	Water quantity indicator	31-15-21-03-055	LOM 404, 416
		31-15-21-03A-140	LOM 402, 406, 407, 411, 412, 415, 420, 422-426
		38-14-02-01-005	LOM 402, 406, 407, 411, 412, 415, 420, 422-426

C. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage

D. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

E. Water Quantity Indicator Installation

SUBTASK 38-14-02-420-001

- (1) Put the water quantity indicator [5] into its position.

SUBTASK 38-14-02-420-002

- (2) Install the screws [3] and washers [4].

SUBTASK 38-14-02-420-003

- (3) Align the spring clips to put the shroud [1] in its position.

SUBTASK 38-14-02-420-004

- (4) Install the screws [2].

F. Water Quantity Indicator Installation Test

SUBTASK 38-14-02-860-003



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.

EFFECTIVITY
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
422-426

38-14-02

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AIRCRAFT MAINTENANCE MANUAL

(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.

- (1) Close this circuit breaker:

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	9	C00138	WATER QTY IND

SUBTASK 38-14-02-610-001

- (2) Do this task: Potable Water Tank - Fill, TASK 12-14-01-600-802.
(a) Make sure that the potable water tank is full.

SUBTASK 38-14-02-710-001

- (3) Make sure that the water quantity indicator [5] shows F.

SUBTASK 38-14-02-610-002

- (4) Do this task: Potable Water System - Drain, TASK 12-14-01-600-801.
(a) Make sure that the potable water tank is empty.

SUBTASK 38-14-02-710-002

- (5) Make sure that the water quantity indicator [5] shows E.

G. Put the Airplane Back to Its Usual Condition

SUBTASK 38-14-02-410-001

- (1) Close this access panel:

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

SUBTASK 38-14-02-610-003

- (2) Do this task: Potable Water Tank - Fill, TASK 12-14-01-600-802.

———— END OF TASK ————

EFFECTIVITY
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
422-426

38-14-02

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AIRCRAFT MAINTENANCE MANUAL

SERVICE PANEL WATER QUANTITY GAUGE - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
- (1) A removal of the water quantity gauge on the service panel.
 - (2) An installation of the water quantity gauge on the service panel.

TASK 38-14-03-000-801

2. Service Panel Water Quantity Gauge Removal

(Figure 401)

A. References

Reference	Title
25-52-10-000-801	Cargo Floor Panel - Removal (P/B 401)

B. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
144	Area Below Aft Cargo Compartment - Right

C. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
146AR	Water Service Door

D. Prepare for the Removal

SUBTASK 38-14-03-010-002

- (1) To get access to the P91 panel, open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 38-14-03-860-001



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.

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

Power Distribution Panel Number 1, P91

Row	Col	Number	Name
C	9	C00138	WATER QTY IND

EFFECTIVITY
LOM 432, 466-999

38-14-03



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AIRCRAFT MAINTENANCE MANUAL

SUBTASK 38-14-03-010-001

- (3) Open this access panel:

Number Name/Location

146AR Water Service Door

SUBTASK 38-14-03-860-002

- (4) Get access to the aft cargo compartment.

SUBTASK 38-14-03-020-001

- (5) To remove the cargo floor panel to access to the top of the service panel, do this task: Cargo Floor Panel - Removal, TASK 25-52-10-000-801.

E. Water Quantity Gauge Removal

SUBTASK 38-14-03-020-002

- (1) Disconnect the electrical connections [3] from the water quantity gauge [4].

SUBTASK 38-14-03-020-003

- (2) Remove the nuts [1] and washers [2].

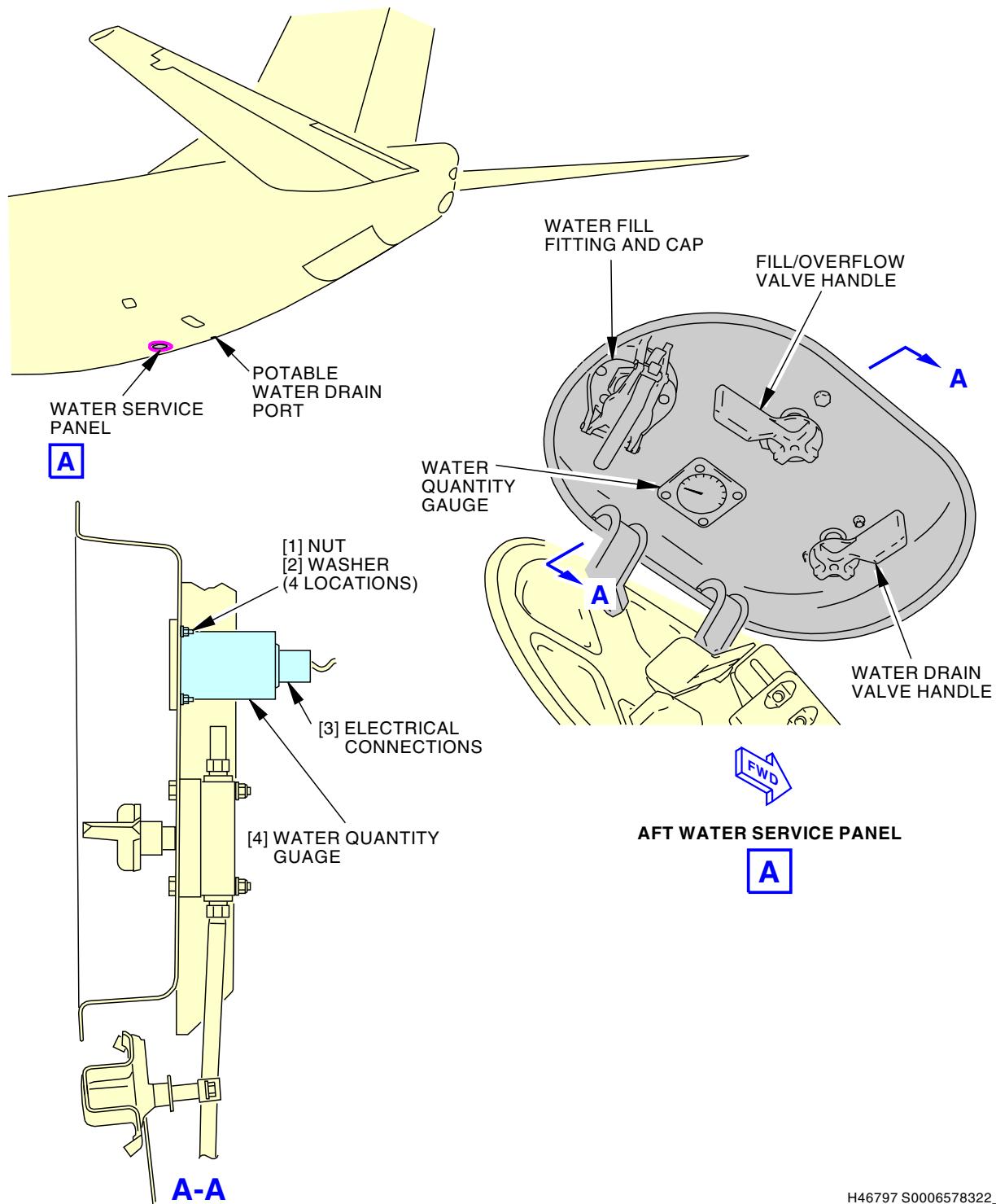
SUBTASK 38-14-03-020-004

- (3) Remove the water quantity gauge [4].

———— END OF TASK ————

— EFFECTIVITY —
LOM 432, 466-999

38-14-03



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Water Quantity Gauge Installation

Figure 401/38-14-03-990-802

EFFECTIVITY
LOM 432, 466-999

38-14-03

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ECCN 9E991 BOEING PROPRIETARY - See title page for details



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AIRCRAFT MAINTENANCE MANUAL

TASK 38-14-03-400-801

3. Service Panel Water Quantity Gauge Installation

(Figure 401)

A. References

Reference	Title
12-14-01-600-802	Potable Water Tank - Fill (P/B 301)
25-52-10-400-801	Cargo Floor Panel - Installation (P/B 401)
51-31-00-390-801	Non-Removable Faying (Mated) Surface Seal Application (P/B 201)

B. Consumable Materials

Reference	Description	Specification
A00247	Sealant - Pressure And Environmental - Chromate Type	BMS5-95

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
4	Gauge	38-11-01-02-105	LOM 432, 466-999
		38-14-00-01-060	LOM 432

D. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
144	Area Below Aft Cargo Compartment - Right

E. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
146AR	Water Service Door

F. Water Quantity Gauge Installation

SUBTASK 38-14-03-860-003

- (1) Apply the sealant, A00247, for a fay surface seal between the service panel and the water quantity gauge [4] (TASK 51-31-00-390-801).

SUBTASK 38-14-03-420-001

- (2) Put the water quantity gauge [4] into its position.

SUBTASK 38-14-03-420-002

- (3) Install the nuts [1] and washers [2].

SUBTASK 38-14-03-420-003

- (4) Connect the electrical connections [3].

EFFECTIVITY
LOM 432, 466-999

38-14-03



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G. Aft Water Quantity Gauge Installation Test

SUBTASK 38-14-03-860-004



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.

- (1) Close this circuit breaker:

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	9	C00138	WATER QTY IND

SUBTASK 38-14-03-610-001

- (2) Do this task: Potable Water Tank - Fill, TASK 12-14-01-600-802.

- (a) Make sure that the potable water tanks are full.

SUBTASK 38-14-03-710-001

- (3) Make sure that the water quantity gauge shows F.

H. Put the Airplane Back in Its Usual Condition

SUBTASK 38-14-03-410-001

- (1) To install the floor panel, do this task: Cargo Floor Panel - Installation, TASK 25-52-10-400-801.

SUBTASK 38-14-03-410-003

- (2) Close this access panel:

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

SUBTASK 38-14-03-410-002

- (3) Close this access panel:

<u>Number</u>	<u>Name/Location</u>
146AR	Water Service Door

———— END OF TASK ————

EFFECTIVITY
LOM 432, 466-999

38-14-03



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AIRCRAFT MAINTENANCE MANUAL

GRAY WATER/DRAIN SYSTEM - MAINTENANCE PRACTICES

1. General

- A. This procedure has these tasks:
 - (1) The primary routing for the location of these systems.
 - (a) The gray water drain system
 - (b) The potable water drain system
 - (c) The drain system for the area at the doors.
- B. This procedure gives the primary configuration items that are in the passenger compartment. This procedure is only a basic configuration of the gray water drains and potable water drains. For the accurate configuration of your airplane, it is necessary for you to refer to the approved configuration data.
- C. This procedure has these illustrations:
 - (1) (Figure 201) shows the primary routing of the tubes for the gray water system.
 - (2) (Figure 202) shows the primary routing of the tubes for the drain system.
 - (3) (Figure 203) shows the primary routing of the tubes for the door drain system.

TASK 38-31-00-910-801

2. Gray Water/Drain System - Maintenance Practice

(Figure 201,Figure 202,Figure 203)

A. Location Zones

Zone	Area
100	Lower Half of Fuselage

B. Gray Water/Drain System - Maintenance Practice

SUBTASK 38-31-00-860-002

- (1) To access the gray water system components use (Figure 201).

SUBTASK 38-31-00-860-003

- (2) To access the water drain system components use (Figure 202).

SUBTASK 38-31-00-860-004

- (3) To access the door drain system components use (Figure 203).

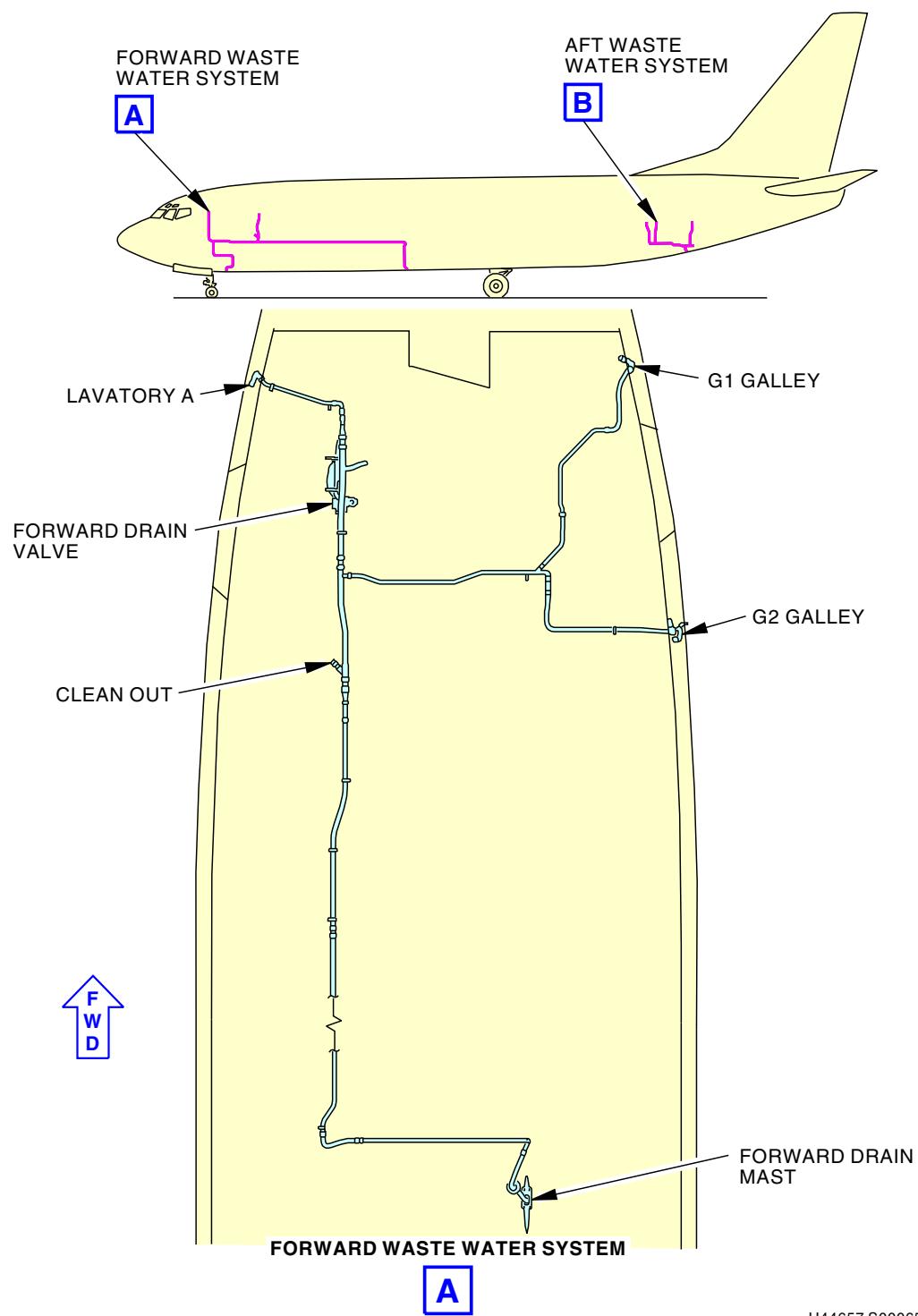
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EFFECTIVITY
LOM ALL

38-31-00



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AIRCRAFT MAINTENANCE MANUAL



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Waste Water System - Maintenance Practice
Figure 201/38-31-00-990-801 (Sheet 1 of 5)

EFFECTIVITY
LOM 402, 406, 432

38-31-00

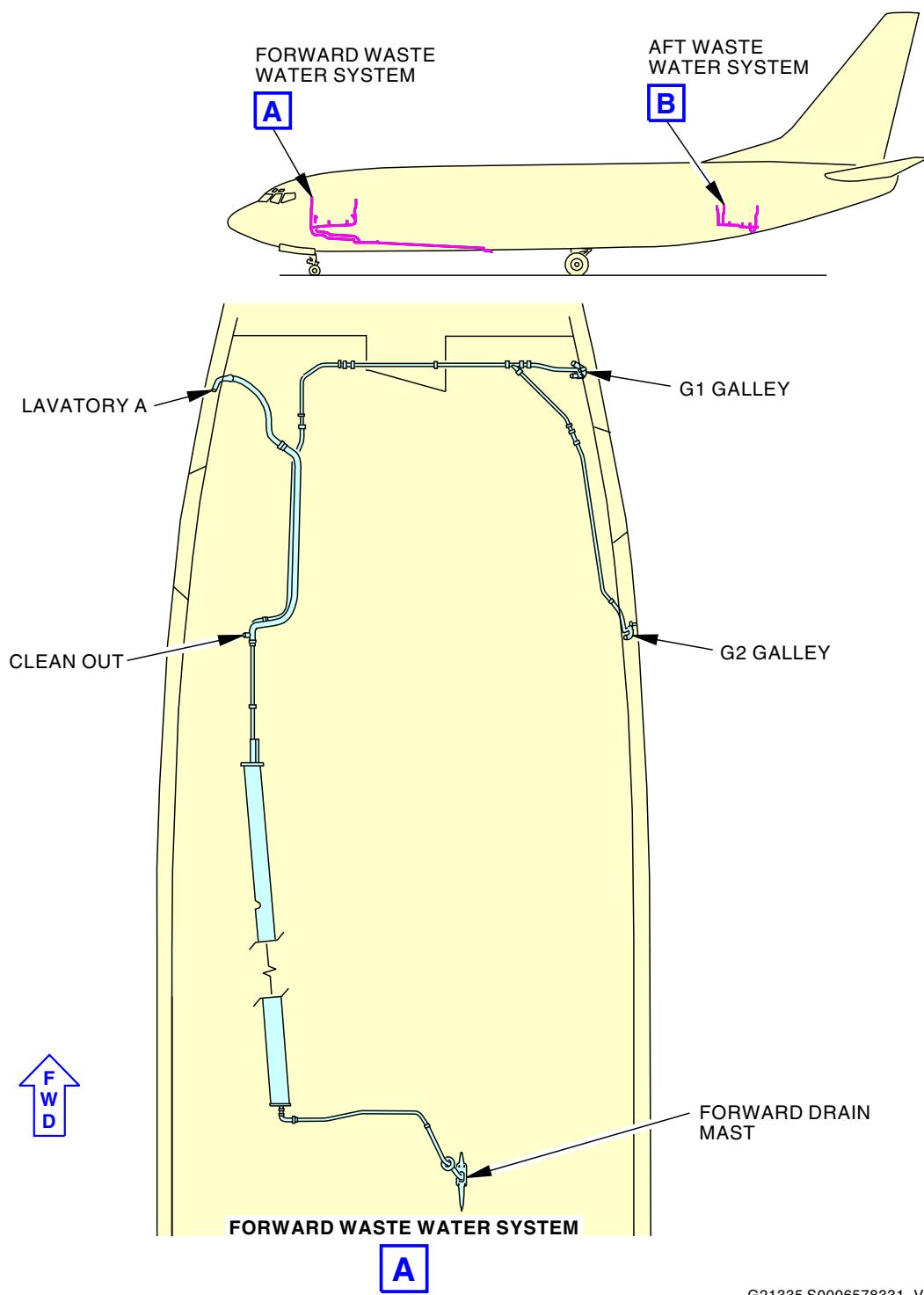
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G21335 S0006578331_V2

Waste Water System - Maintenance Practice
Figure 201/38-31-00-990-801 (Sheet 2 of 5)

EFFECTIVITY
LOM 407, 411, 412, 415, 416, 420, 422-425, 427-431,
433, 434, 437-447, 450-999; LOM 426 POST SB
737-25-1657

38-31-00

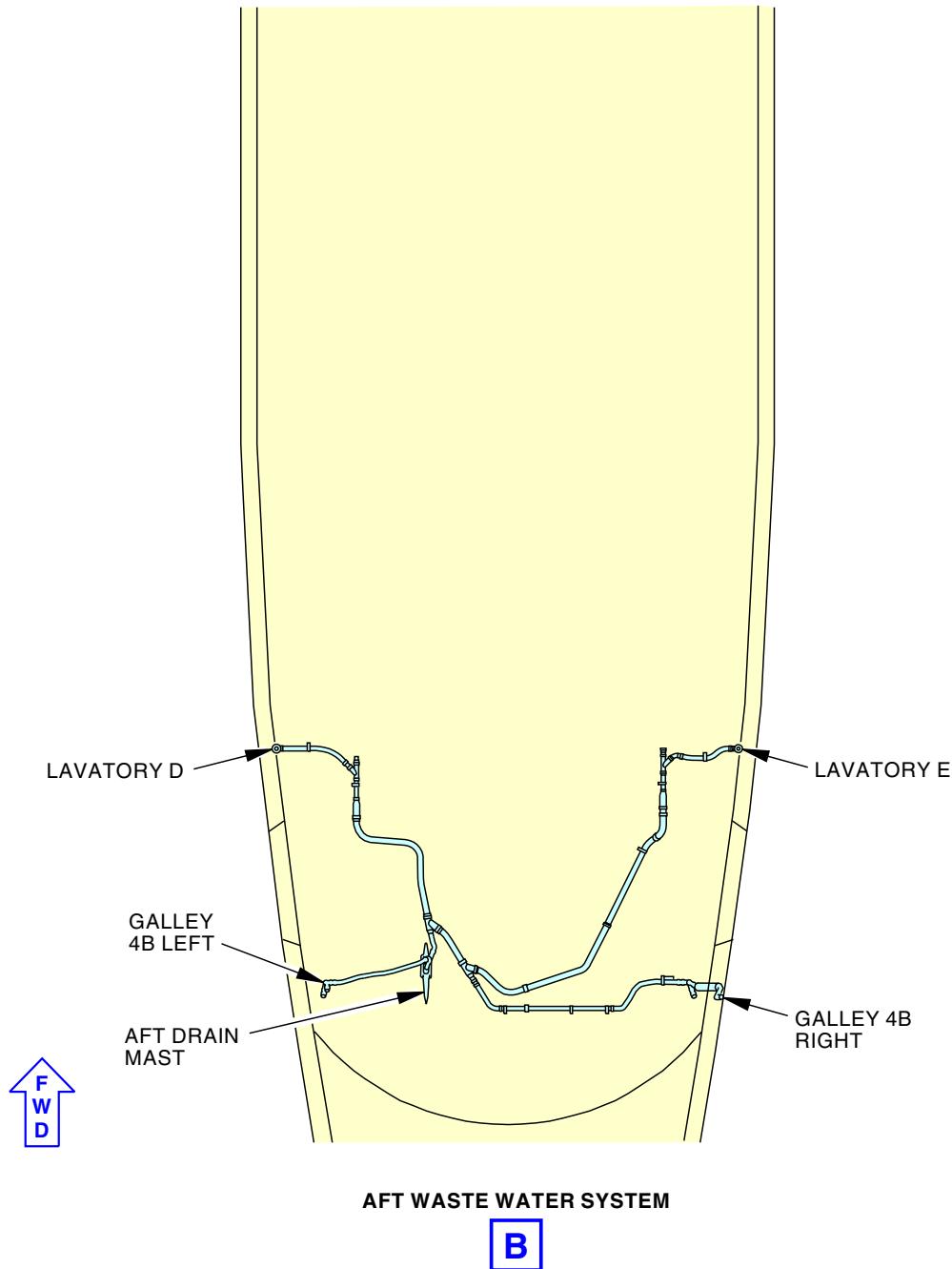
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G21243 S0006578339_V2

Waste Water System - Maintenance Practice
Figure 201/38-31-00-990-801 (Sheet 3 of 5)

EFFECTIVITY
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
422-434, 437-444, 446, 447, 450-465

38-31-00

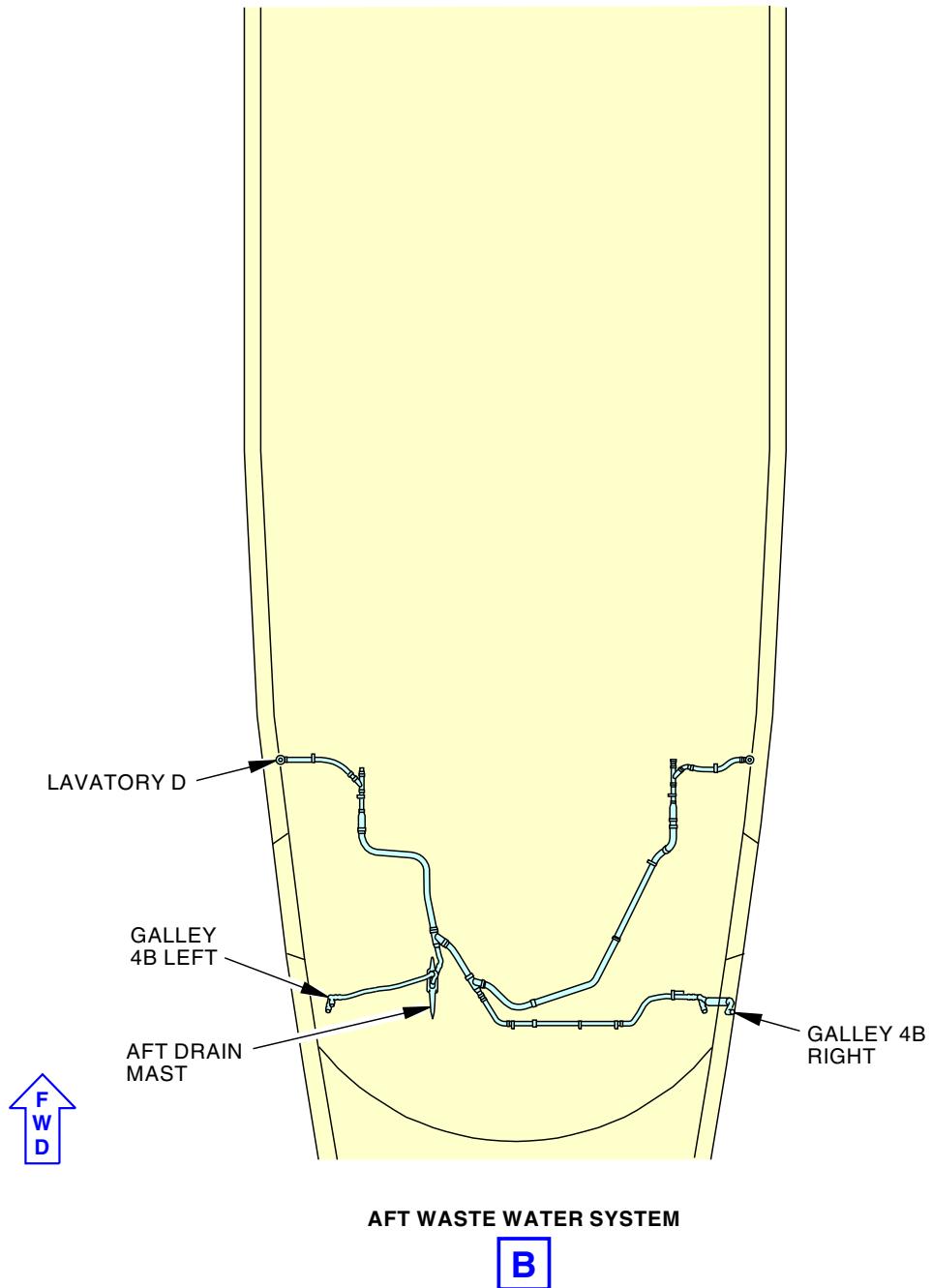
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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AIRCRAFT MAINTENANCE MANUAL



K03319 S0006578340_V2

Waste Water System - Maintenance Practice
Figure 201/38-31-00-990-801 (Sheet 4 of 5)

EFFECTIVITY
LOM 466-999

38-31-00

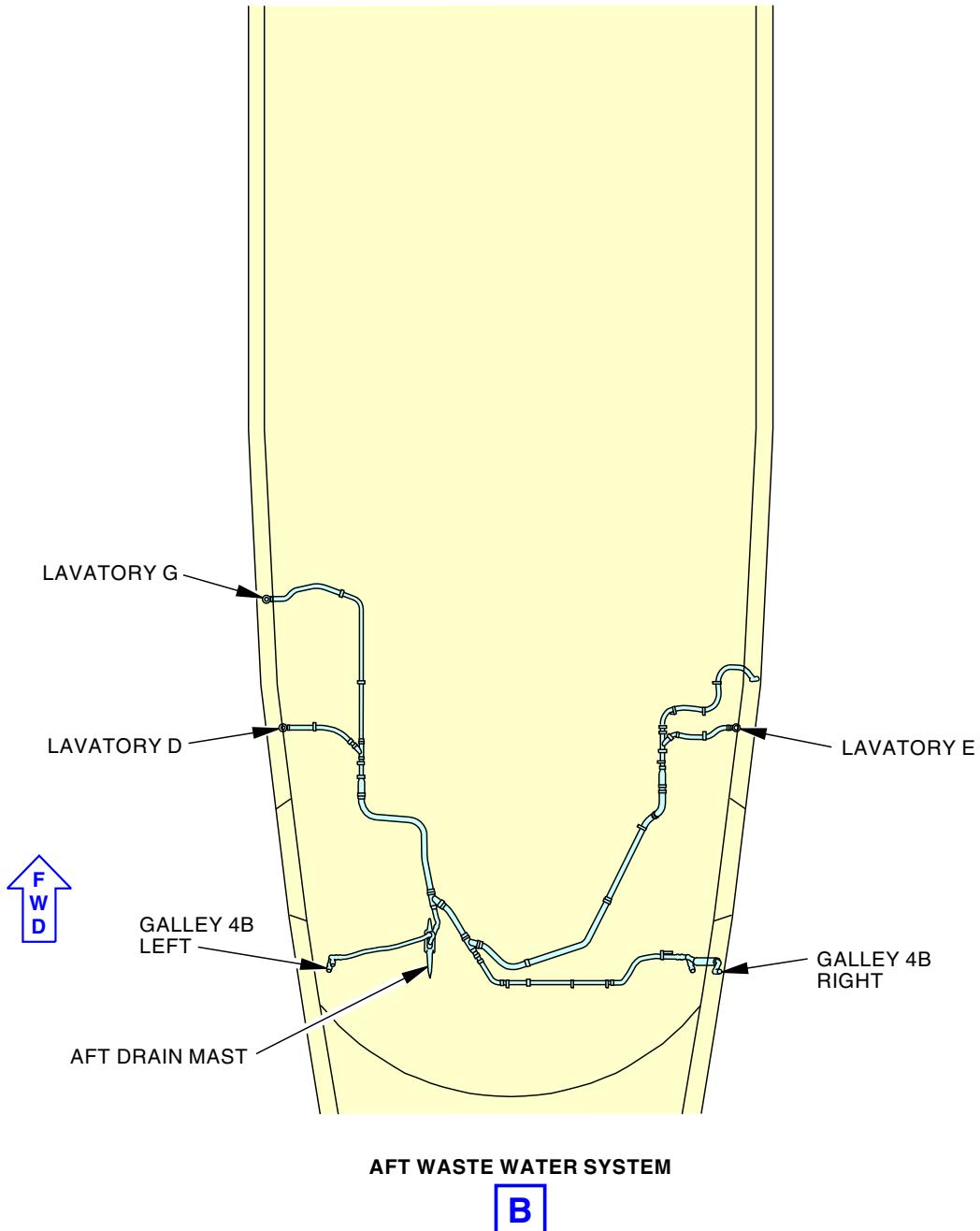
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AIRCRAFT MAINTENANCE MANUAL



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Waste Water System - Maintenance Practice
Figure 201/38-31-00-990-801 (Sheet 5 of 5)

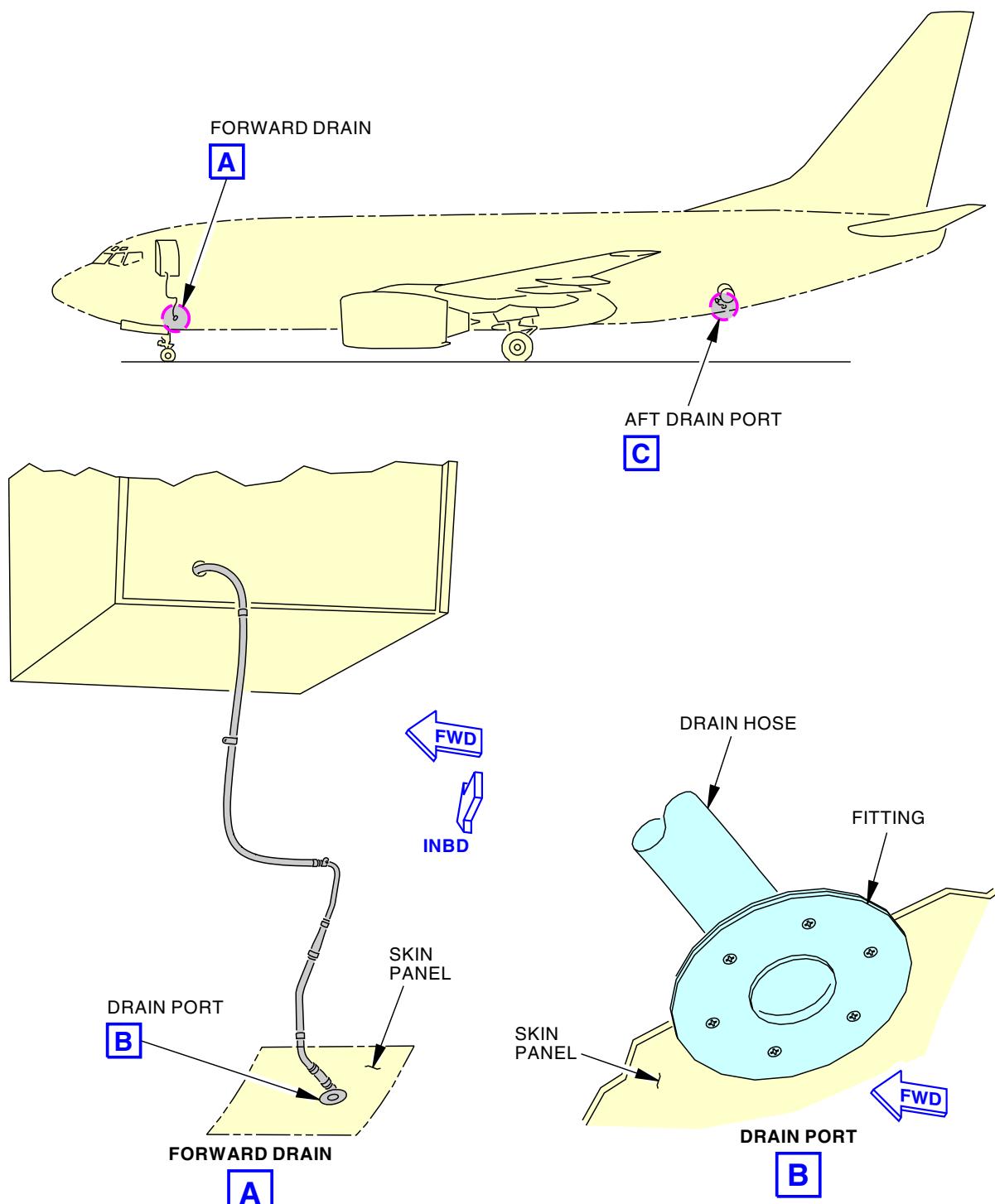
EFFECTIVITY
LOM 445

38-31-00

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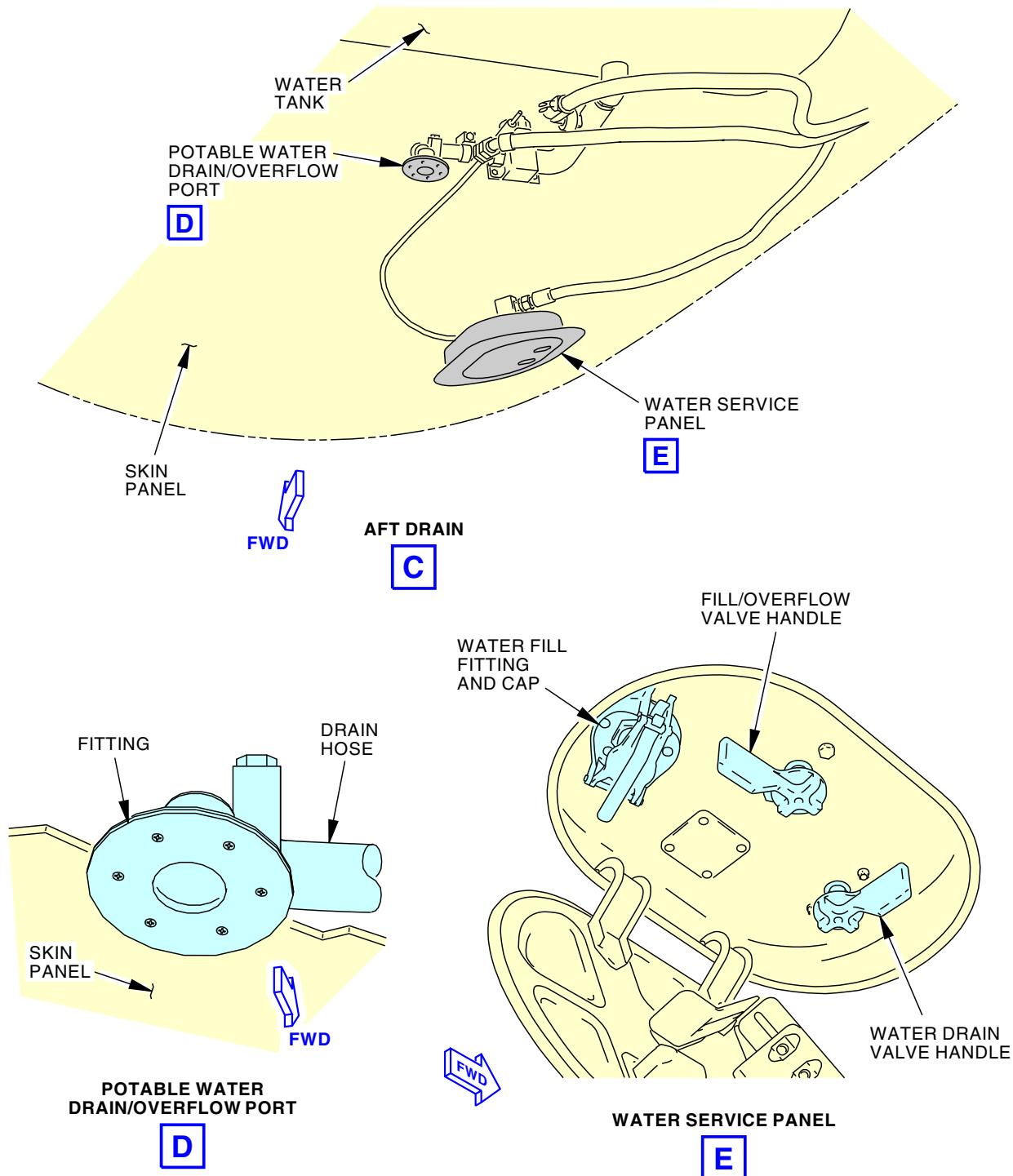


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Water Drain System
Figure 202/38-31-00-990-802 (Sheet 1 of 3)

EFFECTIVITY
LOM ALL

38-31-00



G20921 S0006578351_V2

Water Drain System
Figure 202/38-31-00-990-802 (Sheet 2 of 3)

EFFECTIVITY
 LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
 422-431, 433, 434, 437-447, 450-465

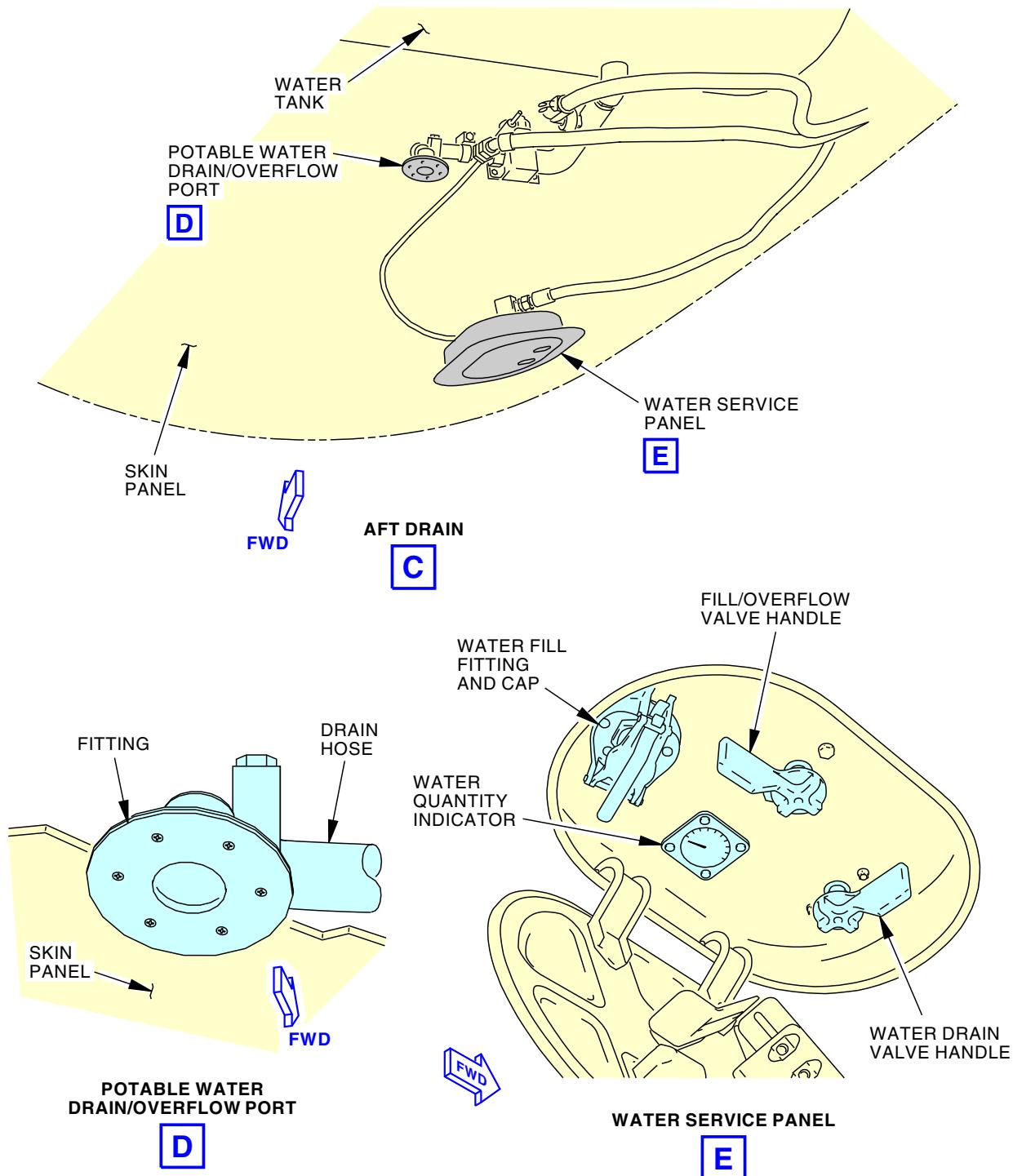
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ECCN 9E991 BOEING PROPRIETARY - See title page for details



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AIRCRAFT MAINTENANCE MANUAL



3014029 S0000787646_V1

Water Drain System
Figure 202/38-31-00-990-802 (Sheet 3 of 3)

EFFECTIVITY
LOM 432, 466-999

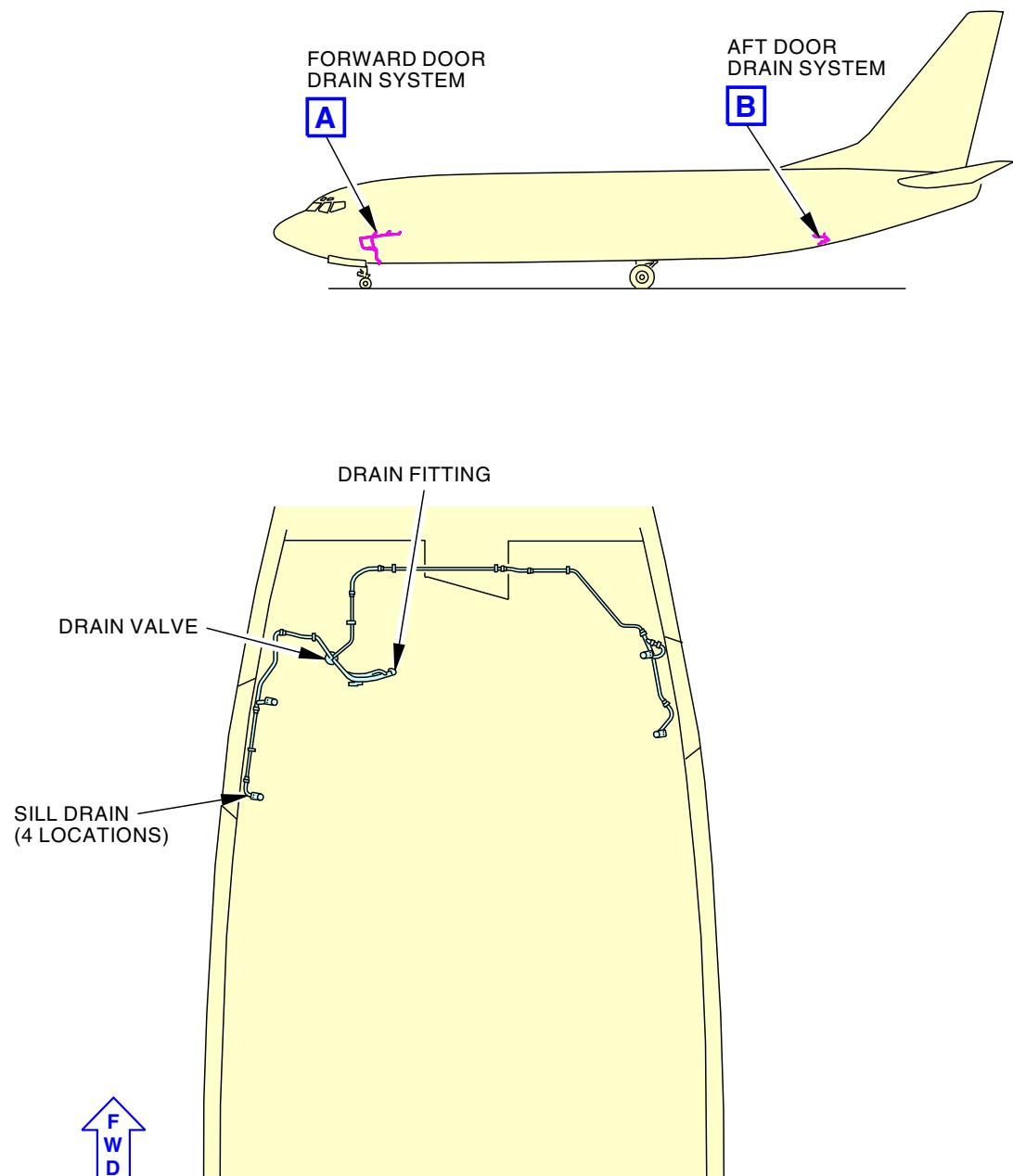
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FORWARD DOOR DRAIN SYSTEM

A

N47370 S0006578355_V2

Door Drain System - Maintenance Practice
Figure 203/38-31-00-990-803 (Sheet 1 of 2)

EFFECTIVITY
LOM ALL

38-31-00

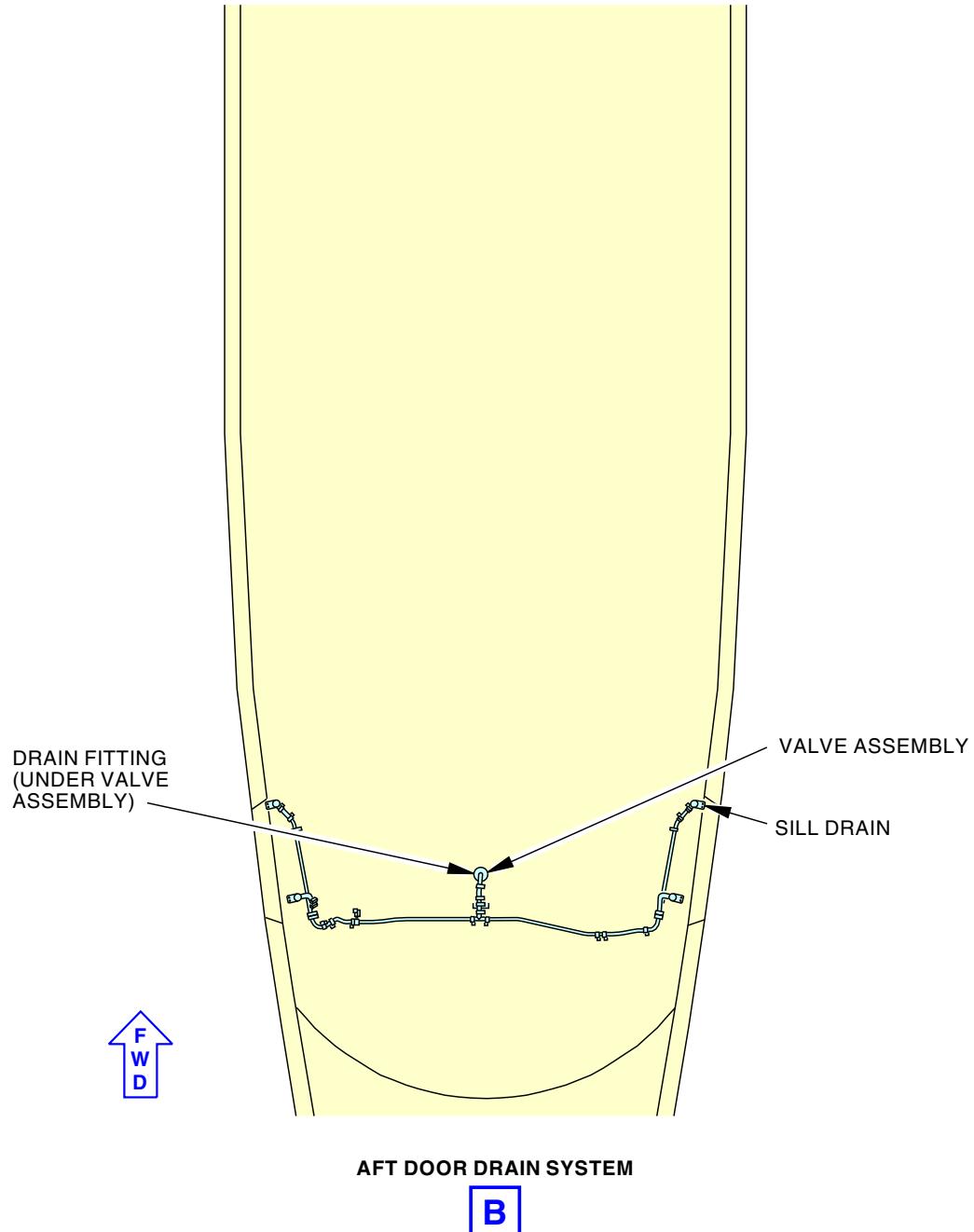
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N40852 S0006578358_V2

Door Drain System - Maintenance Practice
Figure 203/38-31-00-990-803 (Sheet 2 of 2)

EFFECTIVITY
LOM ALL

38-31-00

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FORWARD GRAY WATER DRAIN VALVE - ADJUSTMENT/TEST

1. General

- A. This procedure contains scheduled maintenance task data.
- B. This procedure has this task:
 - (1) A test of the forward gray water drain valve.

TASK 38-31-00-790-801

2. Forward Gray Water Drain Valve Test

(Figure 501)

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
32-09-00-860-801	Put the Airplane in the Air Mode (P/B 201)
32-09-00-860-802	Return the Airplane to the Ground Mode (P/B 201)
38-31-02-000-801	Forward Gray Water Drain Valve Removal (P/B 401)
38-31-02-400-801	Forward Gray Water Drain Valve 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
SPL-1951	Drain Mast Plug - Waste Water
	Part #: C38001-29 Supplier: 81205
	Opt Part #: C38001-23 Supplier: 81205

C. Location Zones

Zone	Area
191	Lower Wing-To-Body Fairing - Forward of Wing Box

D. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

E. Forward Gray Water Drain Valve Test

SUBTASK 38-31-00-010-001

- (1) To get access to the forward gray water drain valve, do this step:

Open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 38-31-00-940-001

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

SUBTASK 38-31-00-710-001

- (3) Make sure that the forward gray water drain valve is open.

EFFECTIVITY
LOM 402, 406, 432

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SUBTASK 38-31-00-940-002

- (4) Make sure that the potable water tank is quarter full (minimum).

SUBTASK 38-31-00-480-001

- (5) Put the waste water drain mast plug, SPL-1951 in the drain mast.

SUBTASK 38-31-00-700-001

- (6) Fill the forward drain system with water from the airplane water supply until water flows from the forward drain port.

- (a) If water does not flow from the forward drain port replace the forward gray water drain valve.

These are the tasks:

Forward Gray Water Drain Valve Removal, TASK 38-31-02-000-801,

Forward Gray Water Drain Valve Installation, TASK 38-31-02-400-801.

SUBTASK 38-31-00-700-002

- (7) If water flows from the forward drain port, then continue.

SUBTASK 38-31-00-080-001

- (8) Remove the waste water drain mast plug, SPL-1951 in the drain mast.

SUBTASK 38-31-00-700-003

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

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
E	19	C01462	GREY WATER DRAIN VALVE

SUBTASK 38-31-00-700-004

- (10) Make sure the forward gray water drain valve is closed.

SUBTASK 38-31-00-700-005

- (11) Fill the forward drain system with water from the airplane water supply until the water flows from the forward drain mast.

- (a) If water does not flow from the drain mast replace the forward gray water drain valve.

These are the tasks:

Forward Gray Water Drain Valve Removal, TASK 38-31-02-000-801,

Forward Gray Water Drain Valve Installation, TASK 38-31-02-400-801.

SUBTASK 38-31-00-700-006

- (12) If water flows from the forward drain mast, then continue.

SUBTASK 38-31-00-940-003

- (13) Put the airplane in the AIR MODE, do this task: Put the Airplane in the Air Mode, TASK 32-09-00-860-801

SUBTASK 38-31-00-040-001

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

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
E	19	C01462	GREY WATER DRAIN VALVE

SUBTASK 38-31-00-860-006

- (15) Make sure that the forward gray water drain valve is closed.

EFFECTIVITY
LOM 402, 406, 432

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SUBTASK 38-31-00-860-007

- (16) Fill the forward drain system from the airplane water supply until water flows from the forward drain mast.

- (a) If water does not flow from the forward drain mast, replace the forward gray water drain valve.

These are the tasks:

Forward Gray Water Drain Valve Removal, TASK 38-31-02-000-801,

Forward Gray Water Drain Valve Installation, TASK 38-31-02-400-801.

SUBTASK 38-31-00-110-003

- (17) If water flows from the forward drain mast, the test is satisfactory.

SUBTASK 38-31-00-940-004

- (18) Put the airplane in GROUND MODE, do this task: Return the Airplane to the Ground Mode, TASK 32-09-00-860-802

SUBTASK 38-31-00-410-002

- (19) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

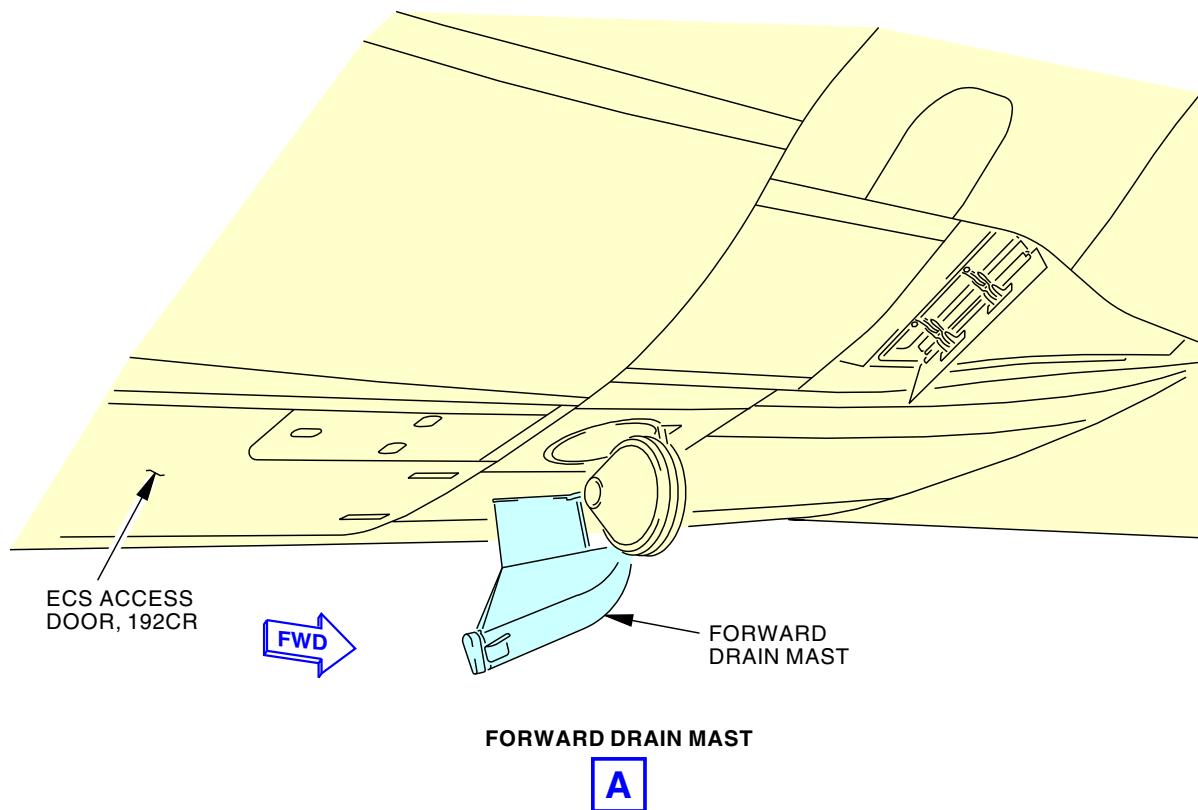
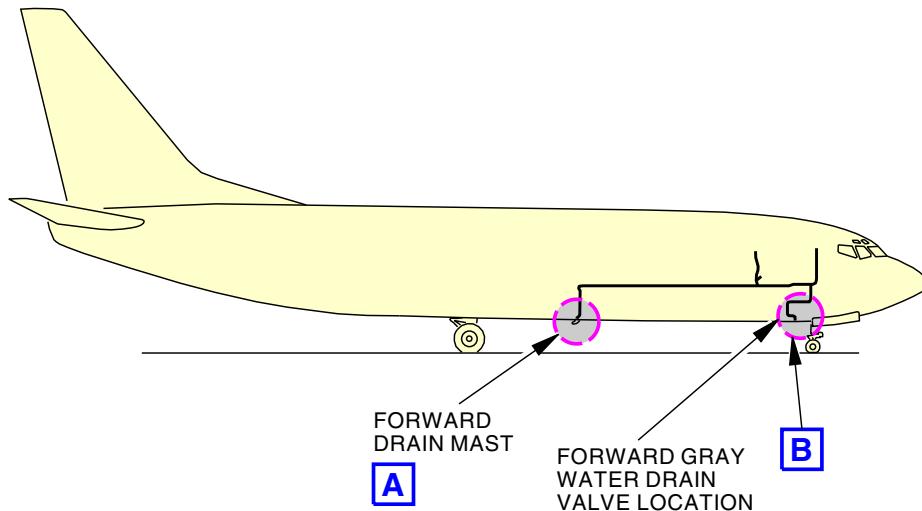
———— END OF TASK ————

EFFECTIVITY
LOM 402, 406, 432

38-31-00



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G96862 S0006578362_V2

Forward Gray Water Drain Valve Test
Figure 501/38-31-00-990-804 (Sheet 1 of 2)

EFFECTIVITY
LOM 402, 406, 432

38-31-00

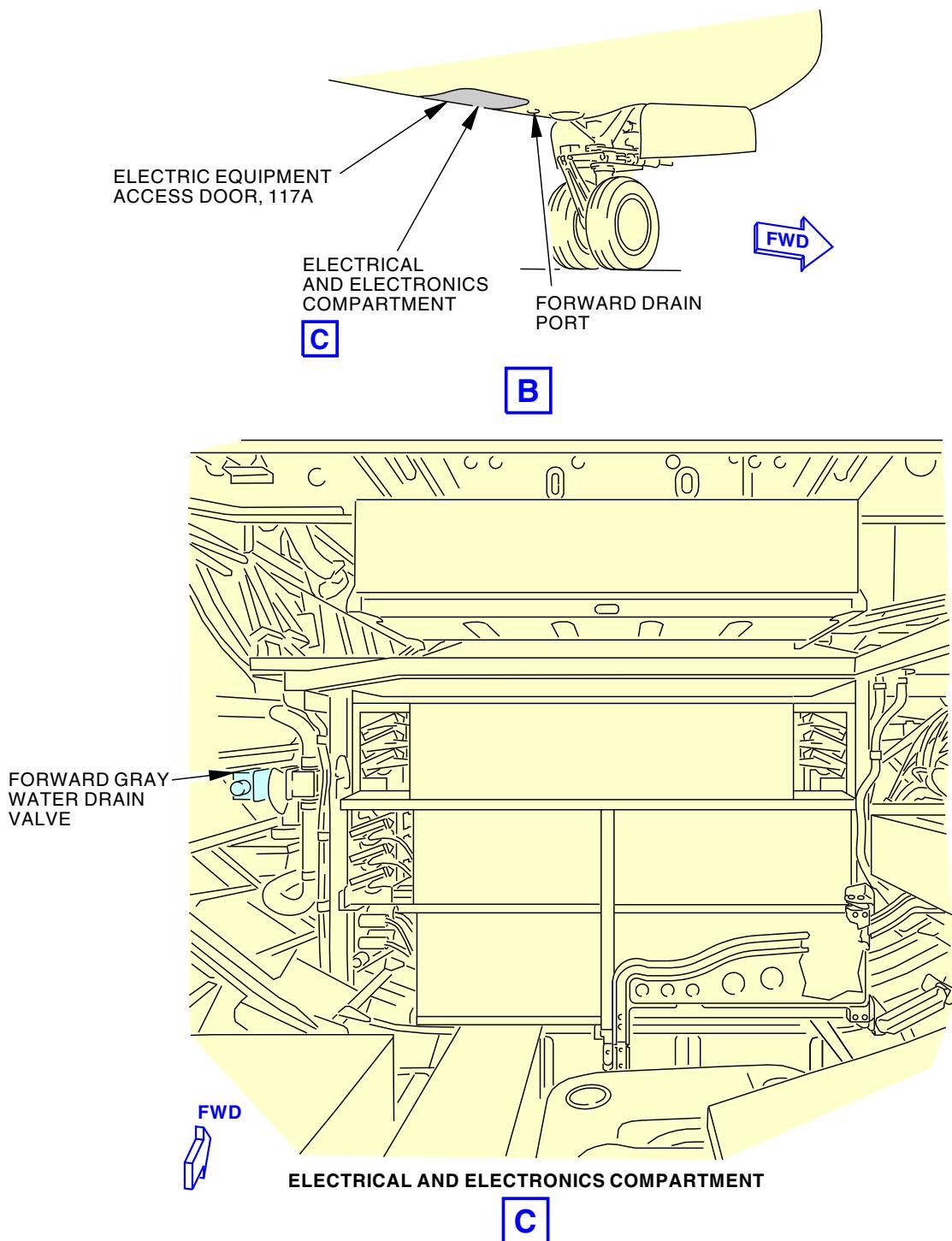
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G96891 S0006578363_V2

Forward Gray Water Drain Valve Test
Figure 501/38-31-00-990-804 (Sheet 2 of 2)

EFFECTIVITY
LOM 402, 406, 432

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GRAY WATER/DRAIN SYSTEM - CLEANING/PAINTING

1. General

- A. This procedure describes the steps to remove blockages from clogged drain lines.
- B. The lavatory and galley drain lines can become clogged when material other than water is allowed into the drain lines. Only use the drain lines for water.

TASK 38-31-00-100-801

2. Gray Water System - Cleaning

A. General

- (1) Use one or more of the procedures that follow to remove obstructions from a clogged drain line.
NOTE: If the clogged drain line has a strainer, begin with procedure 1
 - (a) Procedure 1 removes the drain line strainer (if equipped) and checks the strainer for obstructions.
 - (b) Procedure 2 pressurizes the drain line with air or water to remove the obstruction.
 - (c) Procedure 3 uses tools (snake) to remove the obstruction.
 - (d) Procedure 4 uses chemical compounds to remove the obstruction.
 - (e) Procedure 5 removes the effected drain lines to clear a major obstruction.
 - (f) Procedure 1 is intended for clearing drain lines equipped with strainers:
 - 1) Galley sink drains commonly have strainers mounted in the drain line just below the sink.
 - (g) Procedures 2, 3, and 4 are intended for small or local blockages.
 - (h) Procedure 5 is intended for large blockages.

B. References

Reference	Title
25-52-06-000-801	Cargo Compartment Sidewall Lining - Removal (P/B 401)
25-52-06-400-801	Cargo Compartment Sidewall Lining - Installation (P/B 401)
25-52-09-000-801	Cargo Compartment Ceiling Liner - Removal (P/B 401)
25-52-09-400-801	Cargo Compartment Ceiling Liner - Installation (P/B 401)
25-52-10-000-801	Cargo Floor Panel - Removal (P/B 401)
25-52-10-400-801	Cargo Floor Panel - Installation (P/B 401)
25-52-17-000-801	Forward Cargo Compartment Aft Bulkhead Liner - Removal (P/B 401)
25-52-17-400-801	Forward Cargo Compartment Aft Bulkhead Liner - Installation (P/B 401)
25-52-19-000-801	Aft Cargo Compartment Aft Bulkhead Liner - Removal (P/B 401)
25-52-19-400-801	Aft Cargo Compartment Aft Bulkhead Liner - Installation (P/B 401)
30-71-02-000-801	Gray Water Drain Line Heater Removal (P/B 401)
30-71-02-400-801	Gray Water Drain Line Heater Installation (P/B 401)

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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-1951	Drain Mast Plug - Waste Water Part #: C38001-29 Supplier: 81205 Opt Part #: C38001-23 Supplier: 81205
SPL-10808	Plug Eqpt - Skin Fitting, Door Sill Drain Part #: C38002-1 Supplier: 81205
STD-1174	Drain Snake

D. Consumable Materials

Reference	Description	Specification
B00126	Cleaner - Non-Etch Alkaline, Turco Altrex 24 (Supersedes Altrex Cleaner)	BAC5749
B00636	Acid, Acetic (Vinegar) (5%-10% Acetic Acid)	Commercially available product

E. Location Zones

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

F. Procedure 1

SUBTASK 38-31-00-020-001

- (1) If installed, remove the strainer from the drain line.

NOTE: The strainer for the galley sink drain line is found below the galley sink. The strainer for the door sill drain is found at the drain inlet.

SUBTASK 38-31-00-210-001

- (2) Make sure the strainer is not clogged.

SUBTASK 38-31-00-210-002

- (3) Make sure the drain tube upstream of the strainer is not clogged (as applicable).

SUBTASK 38-31-00-100-001

- (4) If you did not find the blockage in the area near the strainer, use procedure 2 through 5.

NOTE: In sink drain lines, you must use the procedures 2, 3, 4, or 5 at the drain line located below the strainer, not at the sink.

G. Procedure 2

SUBTASK 38-31-00-020-002

- (1) Install plugs for all the other drain lines connected to the drain tube to be pressurized.

SUBTASK 38-31-00-170-001

- (2) If the drain tube has a strainer:

Remove the strainer and pressurize the drain tube downstream of the strainer with air or water (do not use more than 35 psi (241 kPa)).

NOTE: The strainer for the galley sink drain line is found below the galley sink. The strainer for the door sill drain is found at the drain inlet.

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LOM ALL	



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SUBTASK 38-31-00-170-002

- (3) If the drain tube does not have a strainer:

Pressurize the drain tube at the sink with air or water (do not use more than 35 psi pressure)(241 kPa).

SUBTASK 38-31-00-420-001

- (4) After you remove the blockage, remove the plugs from the other drain lines.

H. Procedure 3

SUBTASK 38-31-00-140-001

- (1) Use a drain snake, STD-1174 to mechanically clean the drain tube until the clogged drain line is clear.

NOTE: If the drain tube has a strainer, put the snake in the drain tube downstream of the strainer.

I. Procedure 4

SUBTASK 38-31-00-110-001

- (1) If the gray water system lines drain slowly do these steps:

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
E	3	C00234	HEATERS DRAIN MAST GND
E	4	C00700	HEATERS DRAIN MAST AIR

- (b) Install a plug, SPL-10808 on the applicable door sill drain fitting.

LOM 404, 407, 411, 412, 415, 416, 420, 422-431, 433, 434, 437-447, 450-999



WARNING DO NOT TOUCH THE DRAIN MASTS UNTIL THEY BECOME COOL.
DRAIN MASTS BECOME VERY HOT. INJURIES TO PERSONNEL CAN OCCUR.

- (c) Install a waste water drain mast plug, SPL-1951 in the applicable drain mast outlet.

LOM 402, 406, 432



WARNING DO NOT TOUCH THE DRAIN MASTS UNTIL THEY BECOME COOL.
DRAIN MASTS BECOME VERY HOT. INJURIES TO PERSONNEL CAN OCCUR.

- (d) Make sure the check valve is in the closed position.
(e) Install a waste water drain mast plug, SPL-1951 in the applicable drain mast outlet and the skin ports.

LOM ALL



WARNING OBEY THE VENDOR SAFETY PROCEDURES FOR THE ALKALINE CLEANER. IF YOU TOUCH THE ALKALINE CLEANER, YOU CAN IRRITATE OR BURN THE SKIN OR EYES.

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LOM ALL

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(WARNING PRECEDES)



CAUTION

DO NOT GET THE SOLUTION ON THE AIRPLANE OR IN THE STRAINERS FOR THE DRAIN LINES. IT CAN CAUSE CORROSION.

- (f) Use an applicable chemical cleaner Turco Altrex 24 Cleaner, B00126 or Acetic acid, B00636 to remove the blockage from the blocked drain line.

NOTE: Do not use the two solutions at the same time.

NOTE: Altrex is a stronger solution than the acetic acid and usually is most effective on organic clogs. The acetic acid is most effective on scale or lime blockages.

- 1) If you use the Turco Altrex 24 Cleaner, B00126, mix 8 fl-oz (237 cc) of the Turco Altrex 24 Cleaner, B00126 for each 1 gal (4 l) of hot water.
- 2) If you use the Acetic acid, B00636, use it full strength and do these steps:
 - a) Put 1-2 gallons of Acetic acid, B00636 in a container.
 - b) Heat the Acetic acid, B00636 to approximately 160°F (71°C).

- (g) Fill the applicable waste water or door sill drain hose with the cleaner solution or acetic acid. Add the cleaner through the most forward galley or lavatory sink. This is to prevent possible backflows into, and spills from, a more forward sink, when the airplane is nose down.

NOTE: If the drain hose has a strainer, put the cleaner solution in the drain hose downstream of the strainer.

NOTE: The two cleaners must not be used together (at the same time).

NOTE: Altrex is a stronger solution than Acetic Acid and usually is most effective on organic clogs. The acetic acid works best on scale or lime clogs.

- (h) Keep the drain hose full of the cleaner solution for approximately one hour.

NOTE: Let the cleaner solution soak for the applicable length of time. Use your experience to adjust the length of time.

LOM 402, 406, 432

- (i) Open the check valve.

LOM 404, 407, 411, 412, 415, 416, 420, 422-431, 433, 434, 437-447, 450-999

- (j) Drain the cleaner solution through the waste water drain mast plug, SPL-1951, or remove the waste water drain mast plug, SPL-1951.

LOM 402, 406, 432

- (k) Drain the cleaner solution through the drain mast and the skin port waste water drain mast plugs, SPL-1951, or remove the two drain mast and skin port waste water drain mast plugs, SPL-1951.

LOM 404, 407, 411, 412, 415, 416, 420, 422-431, 433, 434, 437-447, 450-999

- (l) Remove the waste water drain mast plug, SPL-1951 from the drain mast outlet.

LOM 402, 406, 432

- (m) Remove the waste water drain mast plug, SPL-1951 from the drain mast outlet and the skin ports.

LOM ALL

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LOM ALL

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AIRCRAFT MAINTENANCE MANUAL

- (n) Remove the plug, SPL-10808 and drain the cleaner solution from the applicable door sill drain fitting.
- (o) Remove the safety tags and close these circuit breakers:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
E	3	C00234	HEATERS DRAIN MAST GND
E	4	C00700	HEATERS DRAIN MAST AIR

J. Procedure 5

SUBTASK 38-31-00-160-001

- (1) Do the steps that follow to remove the section of the drain tube that you think is clogged.

NOTE: You will usually find the blockage at one of these locations: the elbow fitting below the sink, the drain tubes in the area of the drain mast, or the "Y" fittings where the drain tubes connect.

- (a) Do the applicable steps to get access to the drain lines:
 - 1) Do this task: Cargo Compartment Sidewall Lining - Removal, TASK 25-52-06-000-801.
 - 2) Do this task: Cargo Floor Panel - Removal, TASK 25-52-10-000-801.
 - 3) Do this task: Cargo Compartment Ceiling Liner - Removal, TASK 25-52-09-000-801.
 - 4) Do this task: Aft Cargo Compartment Aft Bulkhead Liner - Removal, TASK 25-52-19-000-801.
 - 5) Do this task: Forward Cargo Compartment Aft Bulkhead Liner - Removal, TASK 25-52-17-000-801.
- (b) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
E	3	C00234	HEATERS DRAIN MAST GND
E	4	C00700	HEATERS DRAIN MAST AIR

- (c) If the drain tube has heater, do this task: Gray Water Drain Line Heater Removal, TASK 30-71-02-000-801.
- (d) Remove the clamps and fasteners for the drain tube.
- (e) Remove the drain tube.
- (f) Blow the blockage out of the drain tube with air.
- (g) If it is necessary, use a drain snake, STD-1174 to remove the blockage from the drain tube.
- (h) Clean the drain tube with the alkaline cleaner.
- (i) Install the drain tube.
- (j) If the drain tube has a heater, do this task: Gray Water Drain Line Heater Installation, TASK 30-71-02-400-801.

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K. Put the Airplane Back to Its Usual Condition.

SUBTASK 38-31-00-410-001



WARNING

SEAL THE CARGO COMPARTMENT WITH THE LINING. OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN YOU INSTALL THE LINING. IF YOU INSTALL THE LINING INCORRECTLY, THE SMOKE CAN GO INTO THE PASSENGER COMPARTMENT DURING A FIRE. THIS CAN CAUSE INJURY TO PERSONNEL.

- (1) Do the applicable steps to complete this task:
 - (a) Do this task: Cargo Compartment Sidewall Lining - Installation, TASK 25-52-06-400-801.
 - (b) Do this task: Cargo Floor Panel - Installation, TASK 25-52-10-400-801.
 - (c) Do this task: Cargo Compartment Ceiling Liner - Installation, TASK 25-52-09-400-801.
 - (d) Do this task: Aft Cargo Compartment Aft Bulkhead Liner - Installation, TASK 25-52-19-400-801.
 - (e) Do this task: Forward Cargo Compartment Aft Bulkhead Liner - Installation, TASK 25-52-17-400-801.
 - (f) If removed, install the strainer.

SUBTASK 38-31-00-860-001

- (2) Close these circuit breakers:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
E	3	C00234	HEATERS DRAIN MAST GND
E	4	C00700	HEATERS DRAIN MAST AIR

———— END OF TASK ————

EFFECTIVITY
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DRAIN MAST - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
- (1) A removal of the forward drain mast.
 - (2) An installation of the forward drain mast.
 - (3) A removal of the aft drain mast.
 - (4) An installation of the aft drain mast.
 - (5) Drain Mast electrical wiring can be identified as follows:
 - (a) Electrical power wires are identified with a one inch Black heat shrinkable sleeve.
 - (b) Ground wires are terminated with 0.25 inch terminal lugs, and:
 - 1) The heater ground wire is identified with a one inch White heat shrinkable sleeve.
 - 2) The static ground wires are identified by having no heat shrinkable sleeve.

TASK 38-31-01-000-801

2. Forward Drain Mast Removal

(Figure 401)

A. References

Reference	Title
06-41-00-800-801	Finding an Access Door or Panel on the Lower Half of the Fuselage (P/B 201)
33-42-02-960-802	Retractable Landing Light - Light Assembly Replacement (P/B 201)

B. Location Zones

Zone	Area
191	Lower Wing-To-Body Fairing - Forward of Wing Box

C. Access Panels

Number	Name/Location
192CR	ECS Access Door
192DR	ECS High Pressure Access Door

D. Prepare for the Removal

SUBTASK 38-31-01-860-001

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

CAPT Electrical System Panel, P18-3

Row Col Number Name

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461
B 14 C00274 EXTERIOR LIGHTING LANDING RIGHT RETR

LOM ALL

E	3	C00234	HEATERS DRAIN MAST GND
E	4	C00700	HEATERS DRAIN MAST AIR



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SUBTASK 38-31-01-010-005



CAUTION

DO NOT OPEN THE ECS ACCESS DOOR 192CR, UNTIL YOU OPEN THE ECS HIGH PRESSURE ACCESS DOOR 192DR. IF YOU DO NOT OBEY, DAMAGE TO THE ECS HIGH PRESSURE ACCESS DOOR 192DR, ITS LATCHES AND HINGES CAN OCCUR.

- (2) To open the right ECS access doors do these steps (TASK 06-41-00-800-801):

- (a) Open this access door:

Number Name/Location

192DR ECS High Pressure Access Door

- (b) Open this access door:

Number Name/Location

192CR ECS Access Door

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461

SUBTASK 38-31-01-010-003

- (3) Do the removal steps of the retractable landing light for the right light to gain access to the drain mast (TASK 33-42-02-960-802).

LOM ALL

E. Forward Drain Mast Removal

SUBTASK 38-31-01-020-001

- (1) Loosen the hose clamp [2] to disconnect the hose assembly [1] from the drain tube [11].

SUBTASK 38-31-01-020-002

- (2) Remove the cable ties to release the drain mast heater wires [3].

SUBTASK 38-31-01-020-003

- (3) Disconnect the electrical connector [8] for the drain mast heaters.

LOM ALL; AIRPLANES WITH COMPOSITE DRAIN MAST WITH BONDING JUMPER

SUBTASK 38-31-01-020-024

- (4) Disconnect the bonding jumper [22], thermostat [25], ground wire [4], washer [26], lock washer [27], and nut [28] from the drain tube clamp [24].

LOM ALL; AIRPLANES WITH ALUMINUM DRAIN MAST OR COMPOSITE DRAIN MAST WITHOUT BONDING JUMPER

SUBTASK 38-31-01-020-004

- (5) Remove the nut [9], washers [10], and ground wire [4] from the structure.

LOM ALL; AIRPLANES WITH ALUMINUM DRAIN MAST P/N 417A2093-7

SUBTASK 38-31-01-020-028

- (6) Remove the nut [68], washer [69], ground wire [4], and bonding jumper [22] from the ground stud.

SUBTASK 38-31-01-020-019

- (7) Remove the nut [20], washer [19], bonding jumper [22], and bonding jumper [21] from the structure.

EFFECTIVITY
LOM ALL

38-31-01



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LOM ALL; AIRPLANES WITH COMPOSITE DRAIN MAST WITH BONDING JUMPER

SUBTASK 38-31-01-020-026

- (8) If the composite mast will be replaced with an aluminum mast, do the following steps:
 - (a) Remove the nut [14], washers [13], screw [12], and bonding jumper [22] attached to the structure.
 - (b) Retain the nut [14], washers [13], screw [12], and bonding jumper [22].

NOTE: The bonding jumper and attaching parts should be retained for any future composite mast installation.

LOM ALL; AIRPLANES WITH ALUMINUM DRAIN MAST OR COMPOSITE DRAIN MAST WITHOUT BONDING JUMPER

SUBTASK 38-31-01-020-005

- (9) Remove the bolts [6] that attach the forward drain mast [7] to the airplane structure.

SUBTASK 38-31-01-020-006

- (10) Remove the forward drain mast [7].

LOM ALL; AIRPLANES WITH ALUMINUM DRAIN MAST P/N 417A2093-7

SUBTASK 38-31-01-020-032

- (11) To remove the forward drain mast [7], do these steps:

LOM ALL

- (a) Remove the bolts [17] and washers [18] that attach the forward drain mast [7] to the airplane structure.

LOM ALL; AIRPLANES WITH ALUMINUM DRAIN MAST P/N 417A2093-7

- (b) Remove the forward drain mast [7].

LOM ALL; AIRPLANES WITH COMPOSITE DRAIN MAST P/N 5E2675-12

SUBTASK 38-31-01-020-017

- (12) Remove the phenolic shim [23].

LOM ALL

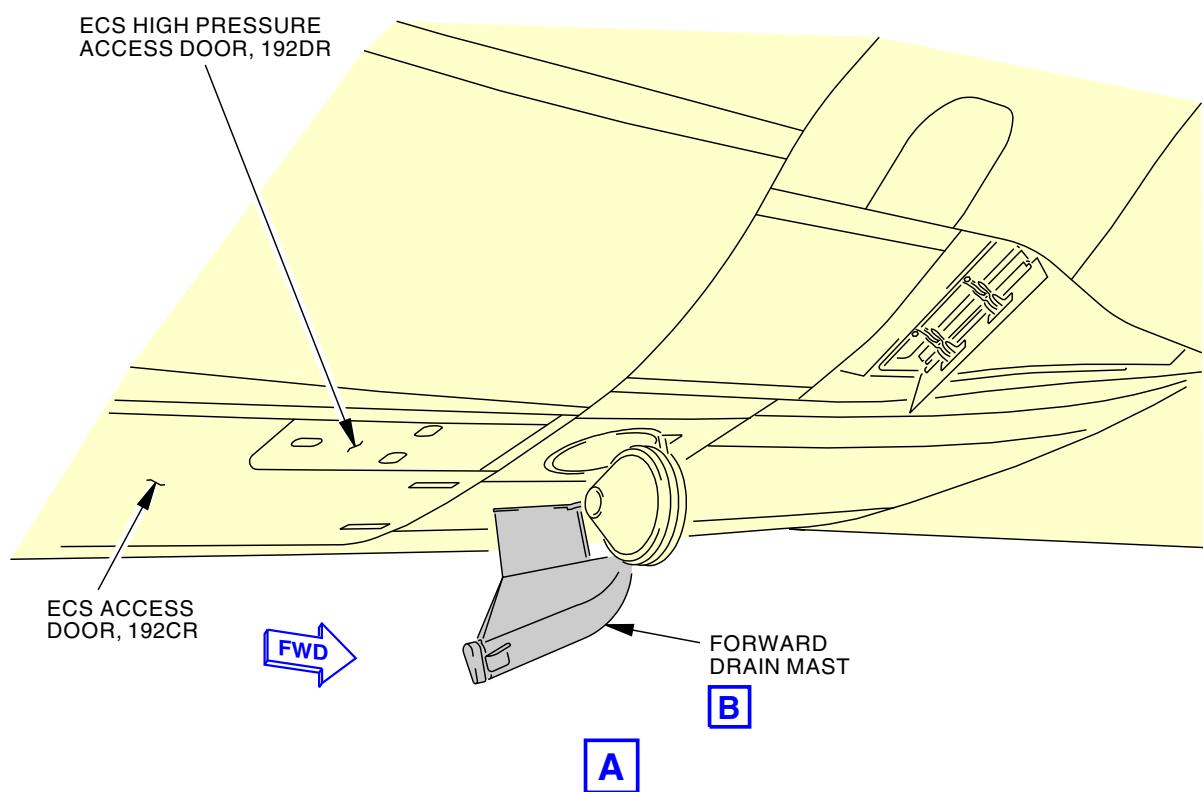
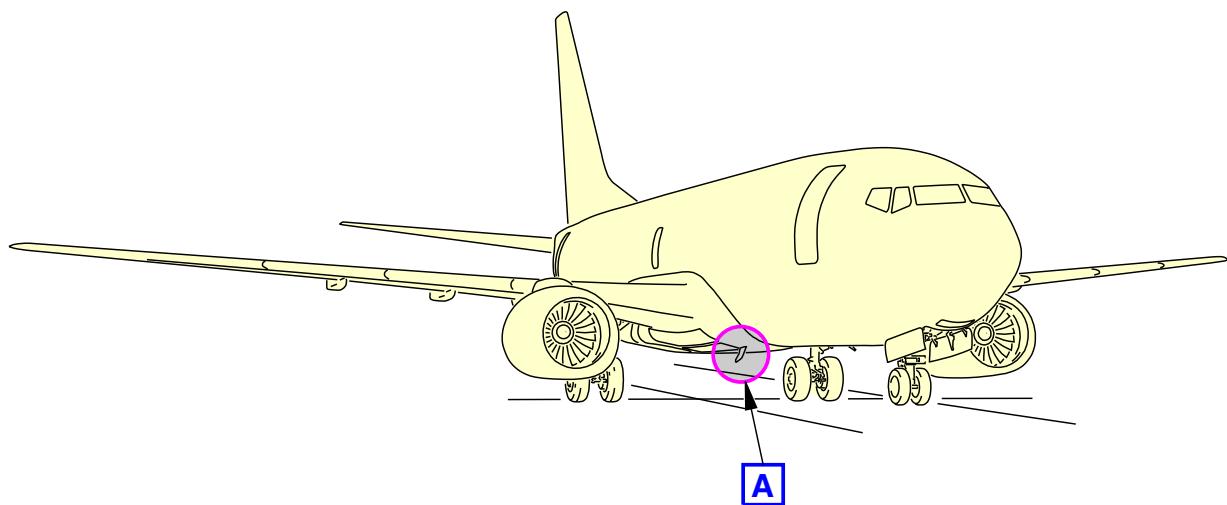
———— END OF TASK ————

EFFECTIVITY
LOM ALL

38-31-01



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AIRCRAFT MAINTENANCE MANUAL



F79011 S0006578372_V3

| **Forward Drain Mast Installation**
Figure 401/38-31-01-990-803 (Sheet 1 of 9)

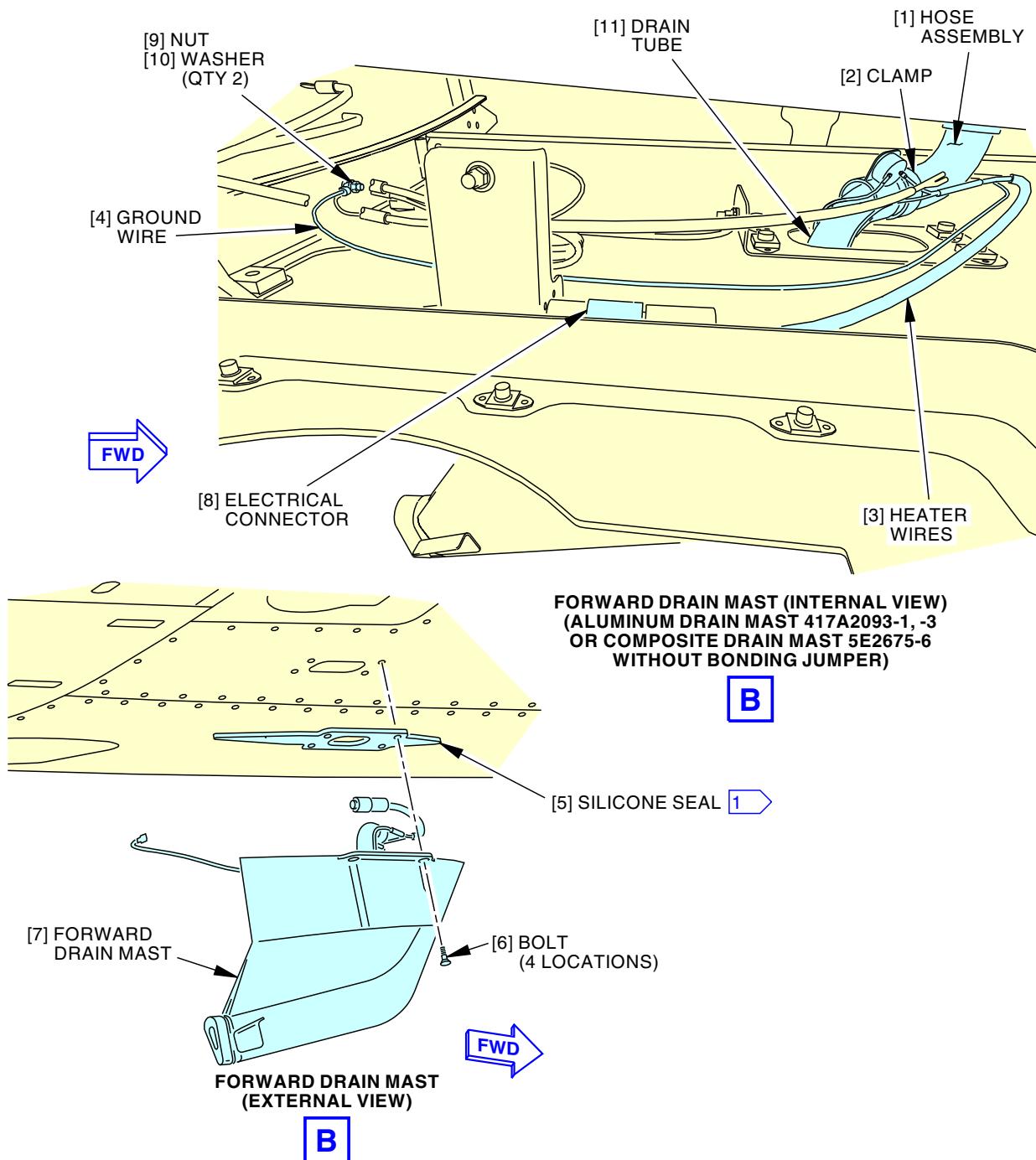
EFFECTIVITY	LOM ALL
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D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

38-31-01

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1 THE SEAL IS BONDED TO THE MAST

F81477 S0006578373_V5

Forward Drain Mast Installation
Figure 401/38-31-01-990-803 (Sheet 2 of 9)

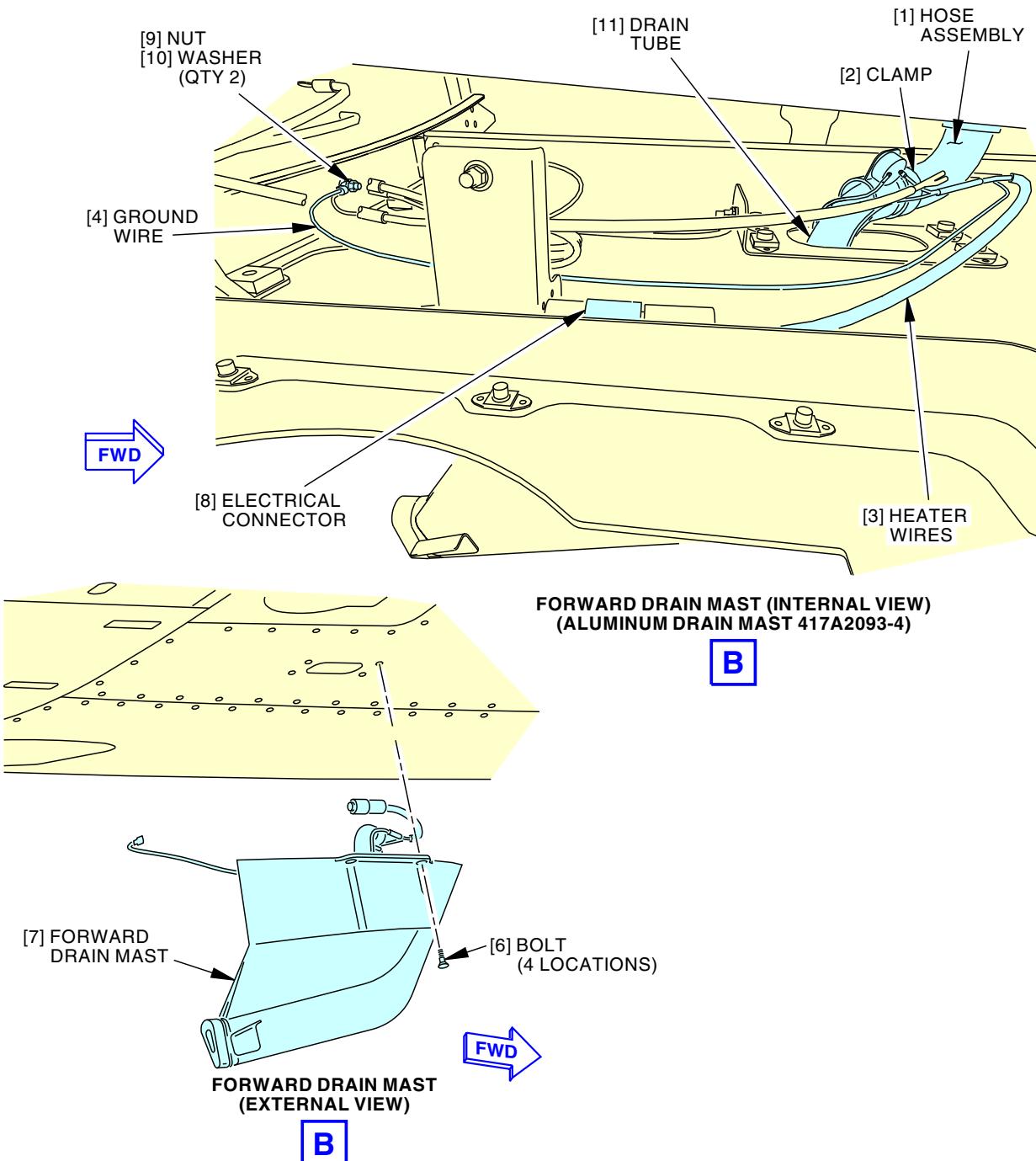
EFFECTIVITY
LOM ALL; AIRPLANES WITH ALUMINUM DRAIN
MAST P/N 417A2093-1, 417A2093-3 OR COMPOSITE
DRAIN MAST P/N 5E2675-6

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

38-31-01

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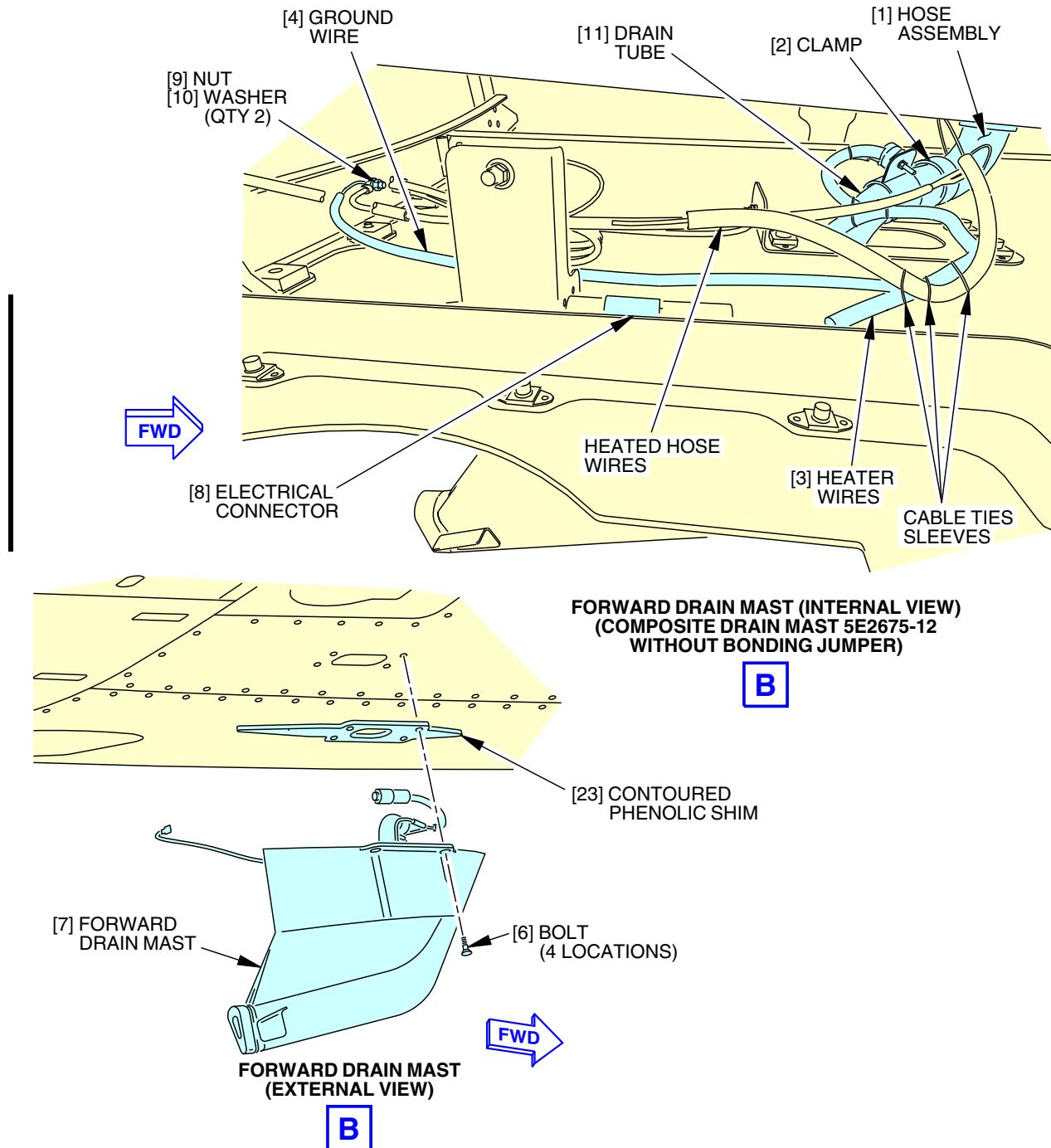


D85686 S0000167262_V4

Forward Drain Mast Installation
Figure 401/38-31-01-990-803 (Sheet 3 of 9)

EFFECTIVITY
LOM ALL; AIRPLANES WITH ALUMINUM DRAIN
MAST P/N 417A2093-4

38-31-01

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D85682 S0000167266_V5

Forward Drain Mast Installation
Figure 401/38-31-01-990-803 (Sheet 4 of 9)

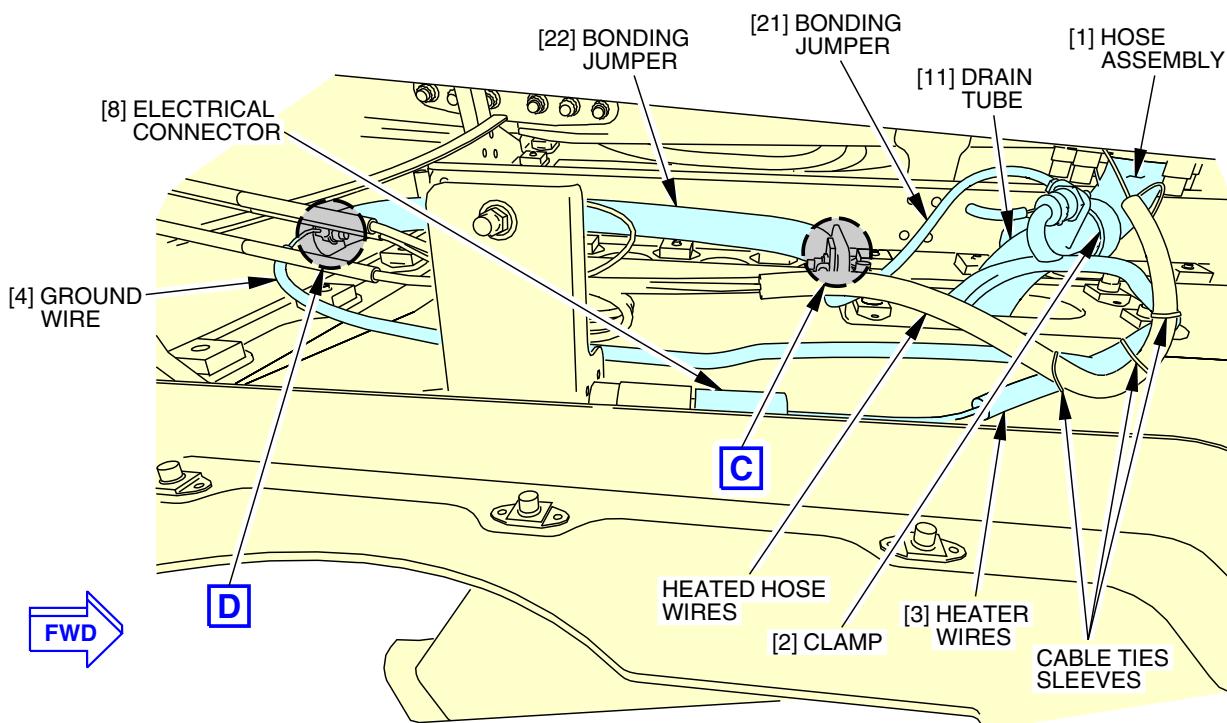
EFFECTIVITY
LOM ALL; AIRPLANES WITH COMPOSITE DRAIN
MAST P/N 5E2675-12

ECCN 9E991 BOEING PROPRIETARY - See title page for details

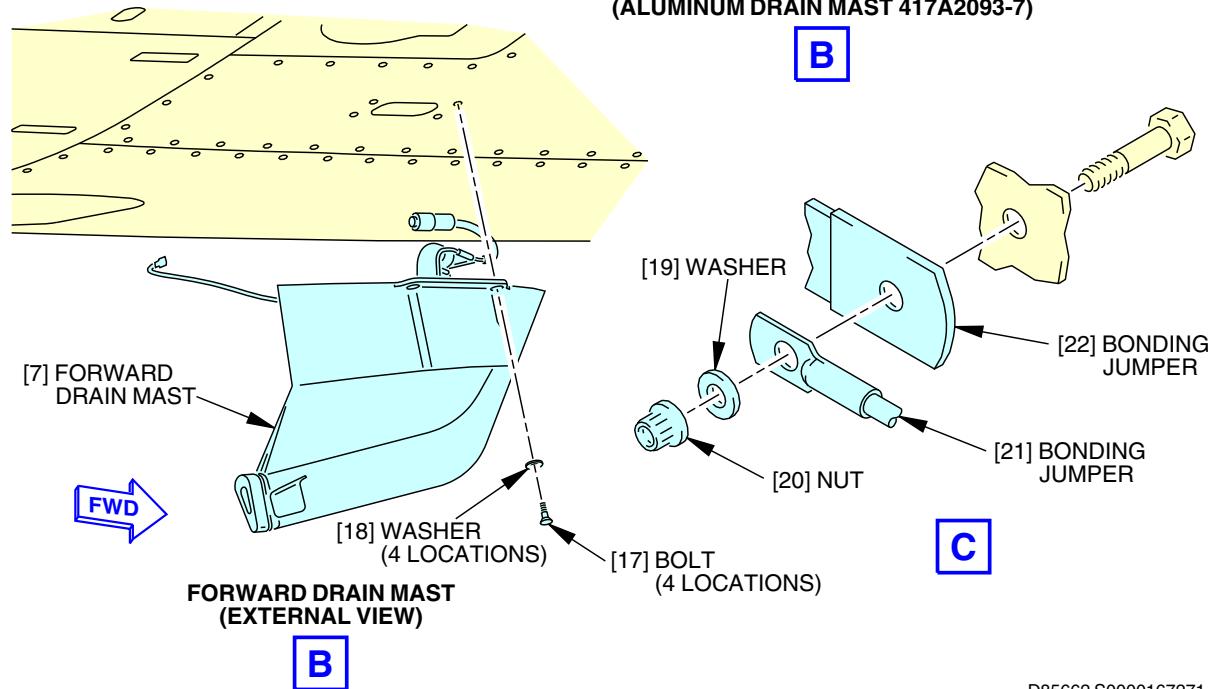
D633A101-LOM

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**FORWARD DRAIN MAST (INTERNAL VIEW)
(ALUMINUM DRAIN MAST 417A2093-7)**



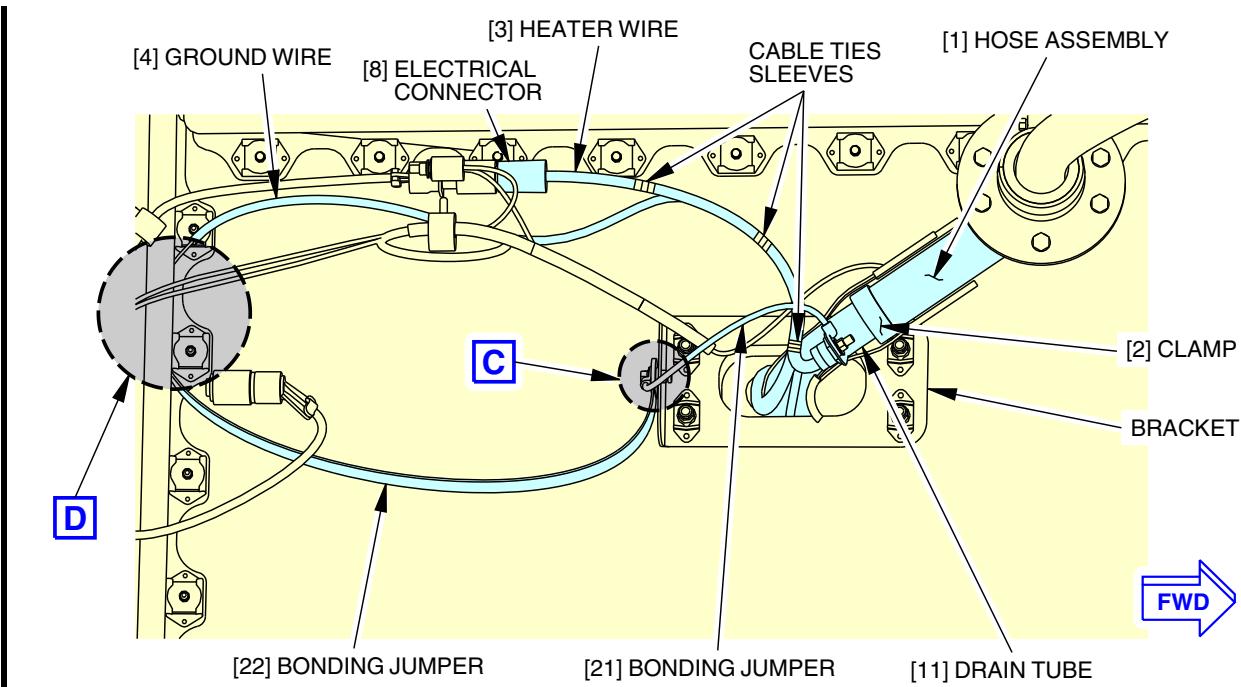
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Forward Drain Mast Installation
Figure 401/38-31-01-990-803 (Sheet 5 of 9)

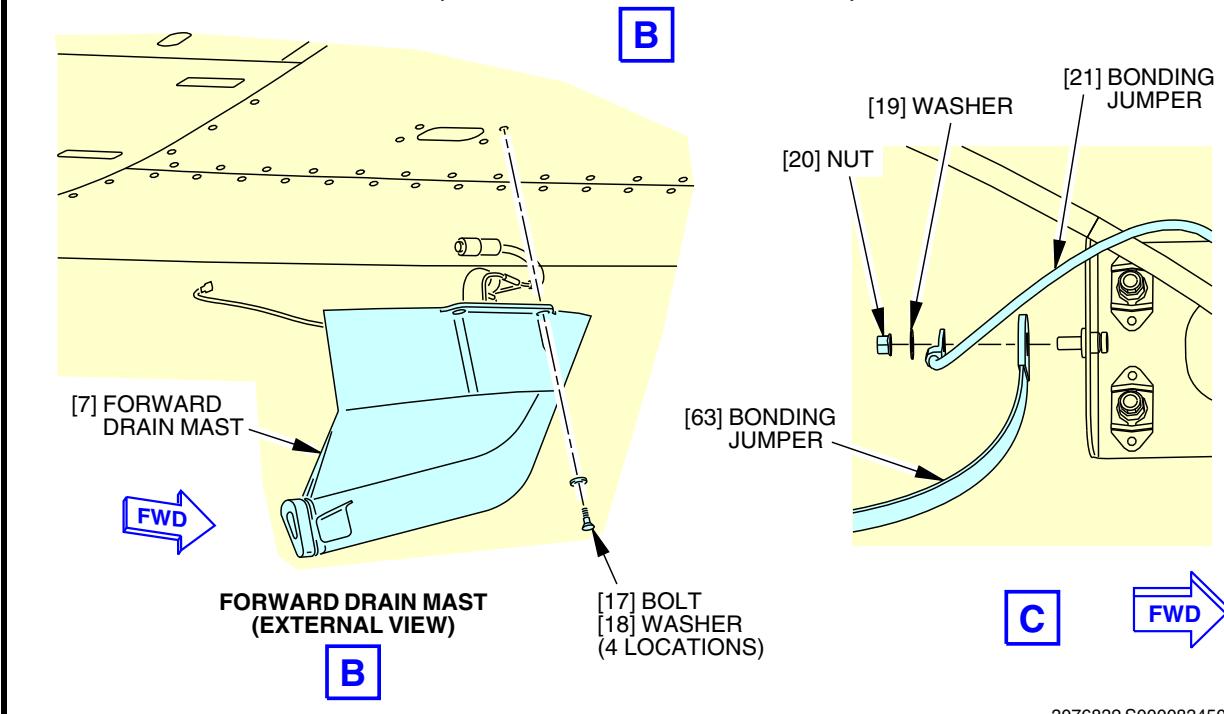
EFFECTIVITY
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
422-434, 437-447, 450-461

38-31-01

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FORWARD DRAIN MAST (INTERNAL VIEW)
(ALUMINUM DRAIN MAST 417A2093-7)



3076832 S0000834501_V1

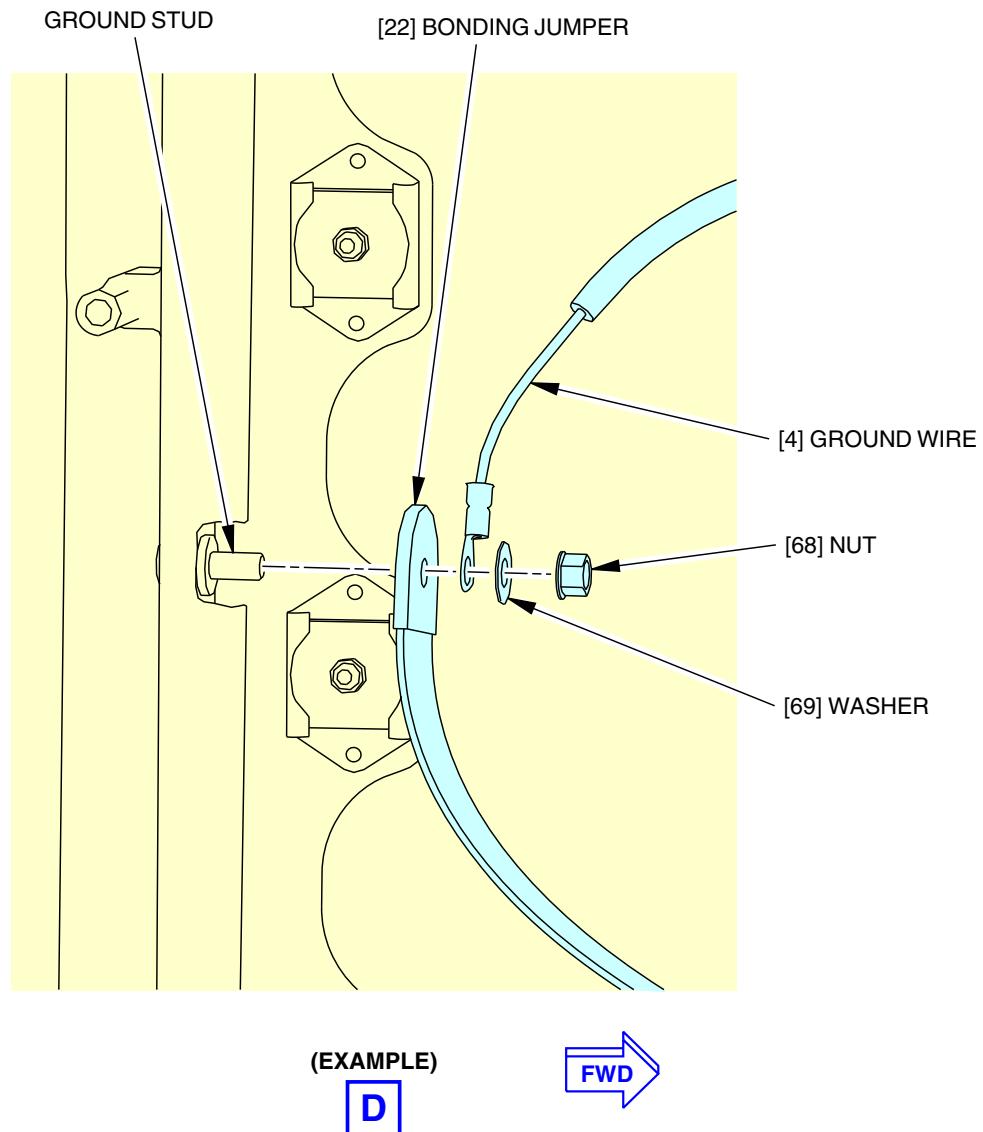
Forward Drain Mast Installation
Figure 401/38-31-01-990-803 (Sheet 6 of 9)

EFFECTIVITY
LOM 462-999

38-31-01



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



3076837 S0000834499_V1

Forward Drain Mast Installation
Figure 401/38-31-01-990-803 (Sheet 7 of 9)

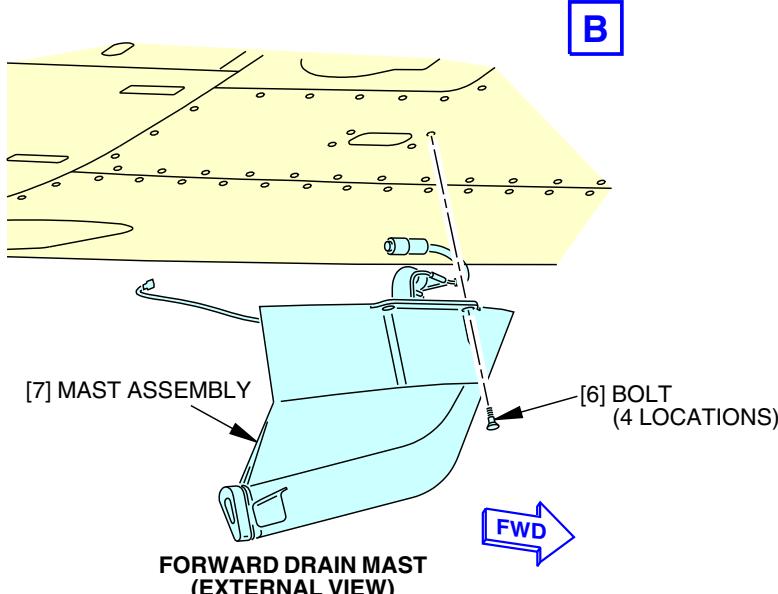
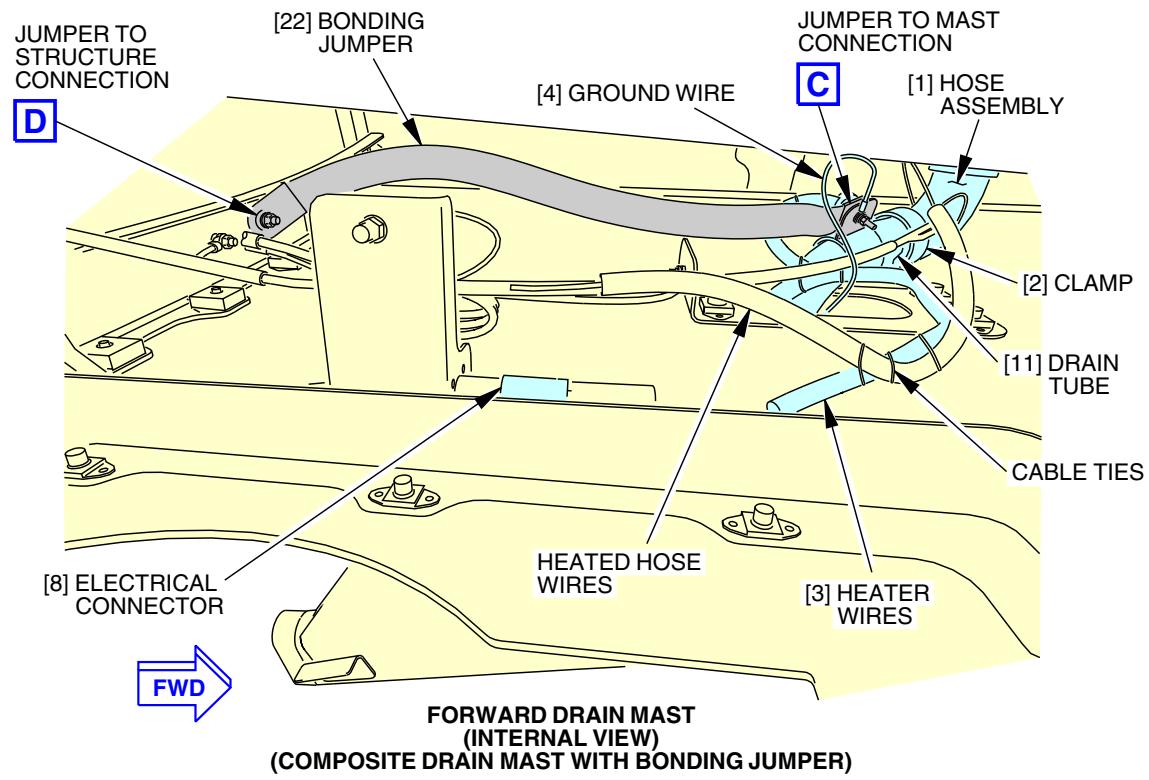
EFFECTIVITY
LOM ALL; AIRPLANES WITH ALUMINUM DRAIN
MAST P/N 417A2093-7

38-31-01

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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1438387 S0000259705_V6

Forward Drain Mast Installation
Figure 401/38-31-01-990-803 (Sheet 8 of 9)

EFFECTIVITY
**LOM ALL; AIRPLANES WITH COMPOSITE DRAIN
MAST WITH BONDING JUMPER**

ECCN 9E991 BOEING PROPRIETARY - See title page for details

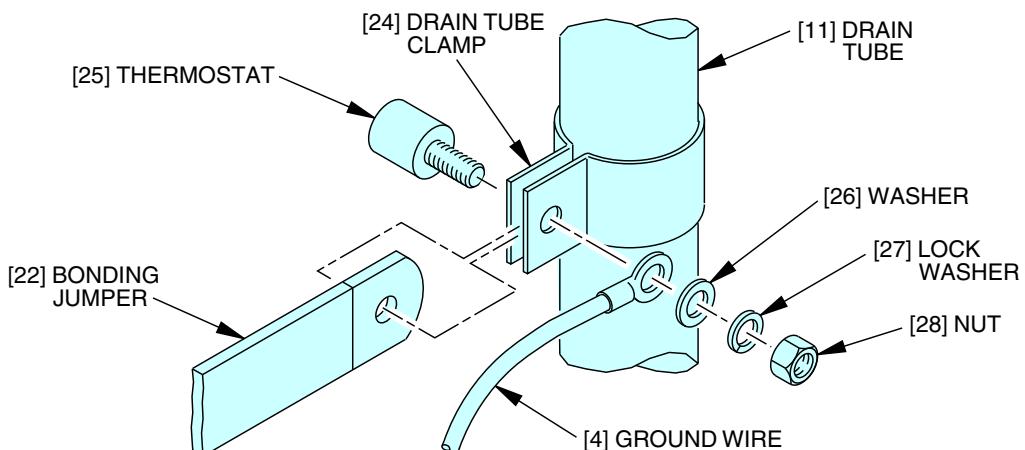
D633A101-LOM

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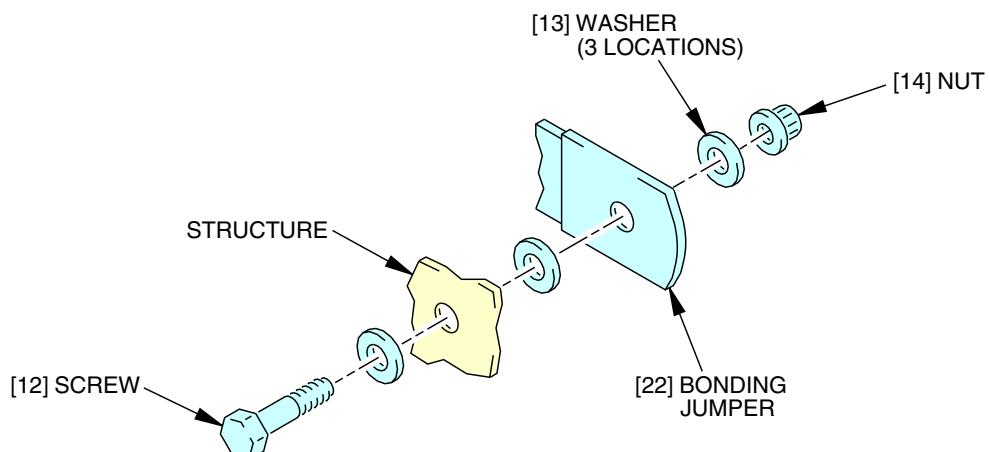


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AIRCRAFT MAINTENANCE MANUAL



JUMPER TO MAST CONNECTION
(COMPOSITE DRAIN MAST WITH BONDING JUMPER)

C



JUMPER TO STRUCTURE CONNECTION

D

1921839 S0000359124_V5

Forward Drain Mast Installation
Figure 401/38-31-01-990-803 (Sheet 9 of 9)

EFFECTIVITY
LOM ALL; AIRPLANES WITH COMPOSITE DRAIN
MAST WITH BONDING JUMPER

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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TASK 38-31-01-400-801

3. Forward Drain Mast Installation

(Figure 401)

A. General

- (1) The machined aluminum mast assembly 417A2093-7 (Improved Mast) may replace the composite 5E2675-6 or 5E2675-12 mast assemblies. The seal bonded to 5E2675-6, and the shim used with the 5E2675-12 is not used on the 417A2093-7 mast assembly. The mast assembly 417A2093-7 may replace the 417A2093-1 or 417A2093-4 masts by removing 417T2111-8 extension and replacing it with the 417T2111-11 extension. The seal attached to 417T2111-8 extension is not used on the 417T2111-11 extension. This procedure replaces the mast assembly as a unit and, does not cover swapping mast extensions.
- (2) Composite masts require a 135A bonding jumper properly grounded to structure. See the Prepare for Installation steps if you are installing a composite mast.

B. References

Reference	Title
06-41-00-800-801	Finding an Access Door or Panel on the Lower Half of the Fuselage (P/B 201)
30-71-00-720-801	Drain Mast Heater Ground and Air Mode Test (P/B 501)
32-09-00-860-801	Put the Airplane in the Air Mode (P/B 201)
32-09-00-860-802	Return the Airplane to the Ground Mode (P/B 201)
33-42-02-960-802	Retractable Landing Light - Light Assembly Replacement (P/B 201)
51-31-00-390-801	Non-Removable Faying (Mated) Surface Seal Application (P/B 201)
51-31-00-390-806	Aerodynamic Smoother Application (P/B 201)
SOPM SWPM 20-20-00	Standard Overhaul Practices Manual
SWPM 20, Standard Wiring Practices	Standard Wiring Practices
SWPM 20-20-00	ELECTRICAL BONDING PROCESSES

C. Tools/Equipment

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

Reference	Description
COM-1550	Bonding Meter - Approved, Intrinsically Safe (Approved for use in Class I, Divisions I & II hazardous (classified) locations. Outside these hazardous locations, COM-614 can be used in lieu of COM-1550). Part #: 620LK Supplier: 1CRL2 Part #: M1 Supplier: 3AD17 Part #: M1B Supplier: 3AD17 Part #: T477W (C15292) Supplier: 06659





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(Continued)

Reference	Description
COM-1793	Multimeter - Digital/Analog (or equivalent meter meets task requirements) Part #: 117 Supplier: 89536 Part #: 260-8XPI Supplier: 55026 Part #: 287 Supplier: 89536 Part #: 289 Supplier: 89536 Part #: 87V Supplier: 89536 Part #: FLUKE 27 II Supplier: 89536 Part #: FLUKE-77-4 Supplier: 89536 Opt Part #: 187 Supplier: 89536 Opt Part #: 189 Supplier: 89536 Opt Part #: 21 Supplier: 89536 Opt Part #: 27 Supplier: 89536 Opt Part #: 77 SERIES III Supplier: 89536 Opt Part #: 87 Supplier: 89536 Opt Part #: FLUKE 27 Supplier: 89536 Opt Part #: MODEL 27 Supplier: 89536

D. Consumable Materials

Reference	Description	Specification
A00247	Sealant - Pressure And Environmental - Chromate Type	BMS5-95
A00436	Sealant - Fuel Tank	BMS5-45 (Supersedes BMS5-26)
A02315	Sealant - Low Density, Synthetic Rubber. 2 Part	BMS5-142 Type II
A50142	Sealant - Fuel Tank	BMS5-45 Class B-1/2
A50231	Sealant - Pressure And Environmental - Chromate Type	BMS5-95 Class B
A50337	Sealant - Fuel Tank	BMS5-45 Class B
A50359	Sealant - Low Density, Non-Chromate Type	BMS5-142 Type II Class B
B00130	Alcohol - Isopropyl	TT-I-735
B01010	Solvent - Final Cleaning Before Non-Structural Bonding To Solvent Resistant Organic Coatings (AMM 20-30-90) - Series 90	
C00175	Primer - Urethane Compatible, Corrosion Resistant	BMS10-79 Type III
C50075	Coating - Protective Enamel (BAC 707 Gray Color)	BMS10-60 Type II
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	AMS3819 Class 1 Grade A or B Form 1 (Supersede BMS15-5 CL A)

E. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
7	Forward drain mast	38-31-01-02-175	LOM 402
		38-31-01-02-200	LOM 402



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(Continued)

AMM Item	Description	AIPC Reference	AIPC Effectivity
7 (cont.)		38-31-01-08-030	LOM 404, 406
		38-31-01-08A-035	LOM 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-999

F. Location Zones

Zone	Area
191	Lower Wing-To-Body Fairing - Forward of Wing Box

G. Access Panels

Number	Name/Location
192CR	ECS Access Door
192DR	ECS High Pressure Access Door

H. Prepare for the Installation

LOM ALL; AIRPLANES WITH COMPOSITE DRAIN MAST WITH BONDING JUMPER

SUBTASK 38-31-01-200-002

- (1) Check the drain mast installation for the correct ground path configuration.

NOTE: Aluminum drain masts are conditionally interchangeable with composite drain masts. Composite masts require a 135A bonding jumper properly grounded to structure. A 135A bonding jumper can be installed per SB 30-1056.

NOTE: Line numbers 1-1666 may have a composite mast installed without the necessary bonding jumper or with an improper ground to structure. Composite masts require a 135A bonding jumper properly grounded to structure. A 135A bonding jumper can be installed per SB 30-1056.

- (a) For composite mast installations, check for 135A bonding jumper [22] mounted to structure.

- (b) Install the bonding jumper [22] to structure if necessary.

NOTE: The initial installation of the bonding jumper must be done with SB 30-1056. Subsequent removal and installation of the bonding jumper can be completed with these instructions.

- 1) For initial installation of the bonding jumper [22], install with SB 30-1056.

- 2) For subsequent installation of the bonding jumper [22], do these steps:

a) Clean the faying surfaces of the structure and bonding jumper [22] terminal for electrical bonding with the Series 90 solvent, B01010 (SWPM 20, Standard Wiring Practices).

b) Install the screw [12], washers [13], nut [14], and bonding jumper [22] to the structure.

c) Torque the nut [14] to 28 in-lb (3.2 N·m) - 35 in-lb (4.0 N·m).

d) Measure the electrical bonding resistance between the bonding jumper [22] terminal and structure (SWPM 20-20-00).

<1> Use an intrinsically safe approved bonding meter, COM-1550, or equivalent.

<2> Make sure that the resistance is 0.001 ohm (1 milliohms) or less.

EFFECTIVITY
LOM ALL

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LOM ALL; AIRPLANES WITH COMPOSITE DRAIN MAST WITH BONDING JUMPER (Continued)

- e) Apply the sealant, A50142, to cover the screw [12], washers [13], nut [14], and bonding jumper [22] terminal.

LOM ALL

I. Forward Drain Mast Installation

SUBTASK 38-31-01-390-001



WARNING
DO NOT GET SOLVENTS IN YOUR MOUTH, EYES, OR SKIN. DO NOT BREATHE FUMES FROM SOLVENTS. REFER TO PRODUCT MATERIAL SAFETY DATA SHEETS (MSDS) AND LOCAL REQUIREMENTS FOR PROPER HANDLING. SOLVENTS ARE HAZARDOUS MATERIALS AND MAY BE FLAMMABLE OR HARMFUL TO THE ENVIRONMENT.

- (1) Clean the seal surface at the drain mast and on the airplane skin with Series 90 solvent, B01010.

LOM ALL; AIRPLANES WITH COMPOSITE DRAIN MAST WITH BONDING JUMPER

SUBTASK 38-31-01-100-001

- (2) Clean the faying surfaces of the mast drain tube [11], drain tube clamp [24], and bonding jumper [22] terminals for electrical bonding with the Series 90 solvent, B01010 (SWPM 20, Standard Wiring Practices).

LOM 455-999

SUBTASK 38-31-01-390-008



WARNING
DO NOT GET SOLVENTS IN YOUR MOUTH, YOUR EYES, OR ON YOUR SKIN. DO NOT BREATHE THE FUMES FROM SOLVENTS. SOLVENTS ARE DANGEROUS MATERIALS. SOLVENTS CAN BE FLAMMABLE. OBEY THE MATERIAL SAFETY DATA SHEETS (MSDS) FOR SOLVENTS. OBEY LOCAL REGULATIONS FOR THE CORRECT PROCEDURES TO USE OR DISCARD SOLVENTS. SOLVENTS CAN CAUSE INJURIES TO PERSONNEL AND DAMAGE TO EQUIPMENT.

- (3) Do these steps to prepare the electrical bonding fay surface areas of the forward drain mast [7]:
 - (a) Clean the mating surface of the forward drain mast [7] and the area around the fastener holes (SOPM SWPM 20-20-00, paragraph 2).
 - (b) Clean the washers [18] and bolts [17] with cotton wiper, G00034, moist in alcohol, B00130 (SOPM SWPM 20-20-00, paragraph 2).

LOM ALL; AIRPLANES WITH ALUMINUM DRAIN MAST P/N 417A2093-4

SUBTASK 38-31-01-390-002

- (4) Apply a fay surface seal with sealant, A00247, to the mating surfaces (TASK 51-31-00-390-801).

LOM ALL

SUBTASK 38-31-01-420-011

- (5) Install the drain mast as follows:

LOM ALL; AIRPLANES WITH ALUMINUM DRAIN MAST P/N 417A2093-4

- (a) Put the forward drain mast [7] in position.

EFFECTIVITY
LOM ALL

38-31-01



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LOM ALL; AIRPLANES WITH ALUMINUM DRAIN MAST P/N 417A2093-4 (Continued)

- 1) Loosely install the bolts [6] for the forward drain mast [7].
- 2) Tighten the bolts [6] in an alternating pattern to 25 in-lb (2.8 N·m).
- 3) Tighten the bolts [6] in an alternating pattern to 45 in-lb (5.1 N·m) - 55 in-lb (6.2 N·m).

LOM ALL; AIRPLANES WITH ALUMINUM DRAIN MAST P/N 417A2093-1, 417A2093-3 OR COMPOSITE DRAIN MAST P/N 5E2675-6

- (b) Put the forward drain mast [7] in position.
 - 1) Make sure that the bonded silicone seal [5] is bonded to the mast assembly at the interface between the mast and wing to body fairing.
NOTE: If the silicone seal is damaged or missing, you must replace the seal.
 - 2) Loosely install the bolts [6] for the forward drain mast [7].
 - 3) Tighten the bolts [6] in an alternating pattern to 25 in-lb (2.8 N·m).
 - 4) Tighten the bolts [6] in an alternating pattern to 45 in-lb (5.1 N·m) - 55 in-lb (6.2 N·m).

LOM ALL; AIRPLANES WITH COMPOSITE DRAIN MAST P/N 5E2675-12

- (c) Put the forward drain mast [7] and phenolic shim [23] in position.
 - 1) Loosely install the bolts [6] with sealant, A00247, applied on the threads for the forward drain mast [7].
 - 2) Tighten the bolts [6] as follows:
 - a) Tighten the bolts [6] for the forward drain mast [7] until the bolts are seated in the locknuts.
 - b) Note the installation torque required for each bolt as they are threaded into the lock nuts.
 - c) Apply an additional 50 in-lb (5.6 N·m) to the noted installation torque in a crosswise manner.

LOM ALL; AIRPLANES WITH ALUMINUM DRAIN MAST P/N 417A2093-7

- (d) Put the forward drain mast [7] in position.

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-454

- 1) Loosely install the washers [18] and bolts [17] with sealant, A00247, applied on the threads for the forward drain mast [7].
- 2) Tighten the bolts [17] in an alternating pattern to 25 in-lb (2.8 N·m).
- 3) Tighten the bolts [17] in an alternating pattern to 45 in-lb (5.1 N·m) - 55 in-lb (6.2 N·m).

LOM 455-999

- 4) Install the washers [18] and bolts [17] to attach the forward drain mast [7].
- 5) Tighten the bolts [17] to 45 in-lb (5.1 N·m) - 55 in-lb (6.2 N·m).
- 6) Measure the electrical bonding resistance between the forward drain mast [7] and bolt [17] head (SWPM 20-20-00, paragraph 2).
 - a) Use an intrinsically safe approved bonding meter, COM-1550.

EFFECTIVITY
LOM ALL

38-31-01



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LOM 455-999 (Continued)

- b) Make sure that the electrical bonding resistance is 0.001 ohm (1.0 milliohm) or less.
- 7) Apply fillet seal with sealant, A50337, or sealant, A50231, or sealant, A50359, on the washers [18] and bolts [17].
- 8) Apply finish with primer, C00175, and coating, C50075, on the forward drain mast [7].

LOM ALL; AIRPLANES WITH COMPOSITE DRAIN MAST

SUBTASK 38-31-01-760-001

- (6) Check the electrical resistance of the drain mast installation:
 - (a) Measure the electrical bonding resistance between the unpainted area around the mounting bolts on the mast and structure (SWPM 20-20-00).
 - 1) Use a digital/analog multimeter, COM-1793.
 - 2) Make sure that the resistance is 300,000.00 ohms or less.

LOM ALL; AIRPLANES WITH ALUMINUM DRAIN MAST

SUBTASK 38-31-01-760-003

- (7) Check the electrical resistance of the drain mast installation:
 - (a) Measure the electrical bonding resistance between the drain hole on the mast and structure (SWPM 20-20-00).
 - 1) Use an intrinsically safe approved bonding meter, COM-1550.
 - 2) Make sure that the resistance is 0.01 ohms (10 milliohms) or less.

LOM 455-999

- (b) Measure the electrical bonding resistance between the forward drain mast [7] and airplane structure (SWPM 20-20-00).
 - 1) Use an intrinsically safe approved bonding meter, COM-1550.
 - 2) Make sure that the resistance is 0.0005 ohm (0.5 milliohms) or less.

LOM ALL

SUBTASK 38-31-01-390-003

- (8) Apply the aerodynamic seal with sealant, A02315, to the surfaces of the forward drain mast [7] (TASK 51-31-00-390-806).

NOTE: It is not necessary to apply the sealant immediately if the cure time will cause a flight delay. But to prevent moisture damage to the airplane, sealant should be applied as soon as it is convenient for the operator.

LOM ALL; AIRPLANES WITH COMPOSITE DRAIN MAST WITHOUT BONDING JUMPER

SUBTASK 38-31-01-420-004

- (9) Install the ground wire [4], nut [9], and washers [10] to the structure.
 - (a) Make sure the surfaces that touch are clean.
 - (b) Apply a fillet seal with sealant, A00436, to the surfaces that touch and to the area of the fasteners.

EFFECTIVITY
LOM ALL

38-31-01



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AIRCRAFT MAINTENANCE MANUAL

LOM ALL; AIRPLANES WITH ALUMINUM DRAIN MAST P/N 417A2093-7

SUBTASK 38-31-01-020-020

- (10) Install the bonding jumper [22], bonding jumper [21], nut [20], and washer [19] to the structure.
- Make sure that the surfaces that touch are clean.
 - Apply a fillet seal with sealant, A00436, to the surfaces that touch and to the area of the fasteners.

SUBTASK 38-31-01-420-020

- (11) Install the bonding jumper [22], ground wire [4], nut [68], and washer [69] to the ground stud.
- Clean the terminals of the bonding jumper [22], ground wire [4], ground stud, nut [68], and washer [69] with cotton wiper, G00034, moist in alcohol, B00130.
 - Install the bonding jumper [22], ground wire [4], nut [68], and washer [69] to the ground stud.
 - Tighten the washer [69] to 28 in-lb (3.2 N·m) - 35 in-lb (4.0 N·m).

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-454

- (d) Apply fillet seal on the bonding jumper [22], ground wire [4], ground stud, nut [68], and washer [69] with sealant, A50337.

LOM 455-999

- Measure the electrical bonding resistance between the ground wire [4] and airplane structure (SWPM 20-20-00).
 - Use an intrinsically safe approved bonding meter, COM-1550.
 - Make sure that the electrical bonding resistance is 0.001 ohm (1.0 milliohm) or less.
- Apply fillet seal on the bonding jumper [22], ground wire [4], ground stud, nut [68], and washer [69] with sealant, A50337, or sealant, A50231, or sealant, A50359.

LOM ALL; AIRPLANES WITH COMPOSITE DRAIN MAST WITH BONDING JUMPER

SUBTASK 38-31-01-410-003

- (12) Install the ground connection at the drain tube clamp [24].
- Put the drain tube clamp [24] in its position on the drain tube [11]. It must not interfere with hose assembly [1] or hose clamp [2].
 - Connect the bonding jumper [22], thermostat [25], ground wire [4], washer [26], lock washer [27], and nut [28] to the drain tube clamp [24].
 - Tighten the nut [28] to 28 in-lb (3.2 N·m) - 35 in-lb (4.0 N·m).
 - Measure the electrical bonding resistance between the bonding jumper [22] terminal and drain tube [11] tube (SWPM 20-20-00).
 - Use an intrinsically safe approved bonding meter, COM-1550, or equivalent.
 - Make sure that the resistance is 0.0015 ohms (1.5 milliohms) or less.
 - Apply the sealant, A50142, to cover the bonding jumper [22] terminal, thermostat [25] stud, ground wire [4] terminal, washer [26], lock washer [27], and nut [28].
 - Apply the sealant, A50142, to the faying surfaces of the drain tube [11] and drain tube clamp [24].

LOM ALL

SUBTASK 38-31-01-420-005

- (13) Install the hose clamp [2] and the hose assembly [1] to the drain tube [11].

EFFECTIVITY
LOM ALL

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SUBTASK 38-31-01-420-016

- (14) Tighten the hose clamp [2] to 35 in-lb (4.0 N·m) - 50 in-lb (5.6 N·m).

SUBTASK 38-31-01-020-007

- (15) Connect the electrical connector [8] for the drain mast heaters.

SUBTASK 38-31-01-020-008

- (16) Install the wire ties approximately every 3 in. (76.2 mm) for the heater wires [3].

J. Forward Drain Mast Installation Test

SUBTASK 38-31-01-040-001

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

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
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LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461			
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B	14	C00274	EXTERIOR LIGHTING LANDING RIGHT RETR
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LOM ALL			
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E	3	C00234	HEATERS DRAIN MAST GND
---	---	--------	------------------------

E	4	C00700	HEATERS DRAIN MAST AIR
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LOM 402, 406, 432

SUBTASK 38-31-01-860-007

- (2) Do this task: Put the Airplane in the Air Mode, TASK 32-09-00-860-801.

LOM ALL

SUBTASK 38-31-01-860-003

- (3) Open the water faucet for a forward lavatory.

SUBTASK 38-31-01-710-001

- (4) Make sure that the water flows from the forward drain mast without leakage.

SUBTASK 38-31-01-710-002

- (5) Make sure that the drain mast heater is in operation (TASK 30-71-00-720-801).

K. Put the Airplane Back to Its Usual Condition

SUBTASK 38-31-01-410-004

- (1) To close the right ECS access doors, do these steps (TASK 06-41-00-800-801):

- (a) Close this access door:

<u>Number</u>	<u>Name/Location</u>
---------------	----------------------

192CR	ECS Access Door
-------	-----------------

- (b) Close this access door:

<u>Number</u>	<u>Name/Location</u>
---------------	----------------------

192DR	ECS High Pressure Access Door
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NOTE: The ECS high pressure access door, 192DR, will not latch in its position if the ECS access door, 192CR, is not closed.

LOM 402, 406, 432

SUBTASK 38-31-01-860-008

- (2) Do this task: Return the Airplane to the Ground Mode, TASK 32-09-00-860-802.

EFFECTIVITY
LOM ALL

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LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461

SUBTASK 38-31-01-010-004

- (3) Install and test the retractable landing light for the right light (TASK 33-42-02-960-802).

LOM ALL

————— END OF TASK ————

TASK 38-31-01-000-802

4. Aft Drain Mast Removal

(Figure 402)

A. References

Reference	Title
21-31-03-000-801	Aft Outflow Valve Assembly Removal (P/B 401)
30-00-00-040-808	MMEL 30-19 (DDPG) Preparation - Drain Mast Heaters Inoperative (P/B 901)
38-11-01-000-801	Water Tank Removal (P/B 401)
51-21-41 P/B 701	CHEMICAL CONVERSION COATING - CLEANING/PAINTING
51-21-72 P/B 701	PRIMER - CLEANING/PAINTING
51-21-73 P/B 701	TOPCOAT - CLEANING/PAINTING
51-31-00-390-801	Non-Removable Faying (Mated) Surface Seal Application (P/B 201)
53-21-00-000-801	Passenger Cabin Floor Panel - Removal (P/B 401)
SRM 51-10-01	Structural Repair Manual

B. Consumable Materials

Reference	Description	Specification
A00247	Sealant - Pressure And Environmental - Chromate Type	BMS5-95
B01010	Solvent - Final Cleaning Before Non-Structural Bonding To Solvent Resistant Organic Coatings (AMM 20-30-90) - Series 90	

C. Location Zones

Zone	Area
240	Subzone - Passenger Compartment - Body Station 663.75 to Body Station 1016.00

D. Prepare for the Removal

SUBTASK 38-31-01-860-004

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
E	3	C00234	HEATERS DRAIN MAST GND
E	4	C00700	HEATERS DRAIN MAST AIR

SUBTASK 38-31-01-010-002

- (2) To get access to the aft drain mast, do one of these steps:

- (a) Do this task: Passenger Cabin Floor Panel - Removal, TASK 53-21-00-000-801.
- (b) Do this task: Aft Outflow Valve Assembly Removal, TASK 21-31-03-000-801.
- (c) Do this task: Water Tank Removal, TASK 38-11-01-000-801.

— EFFECTIVITY —
LOM ALL



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E. Aft Drain Mast Removal

SUBTASK 38-31-01-020-009

- (1) Loosen the hose clamp [32] to disconnect hose assembly [33] from the aft drain mast assembly [34].

SUBTASK 38-31-01-020-010

- (2) Remove the wire ties to release the heater wires [31].

SUBTASK 38-31-01-020-011

- (3) Disconnect the electrical splice connections to the heater wires [31].

LOM ALL; AIRPLANES WITH ALUMINUM DRAIN MAST OR COMPOSITE DRAIN MAST WITHOUT BONDING JUMPER

SUBTASK 38-31-01-020-012

- (4) Remove the case ground wire [46], washers [44], bolt [43], and nut [45] from the structure.

LOM ALL; AIRPLANES WITH COMPOSITE DRAIN MAST WITH PRODUCTION BONDING JUMPER

SUBTASK 38-31-01-020-022

- (5) Remove the nut [54], lock washer [53], washer [52], bonding jumper [51], and thermostat [47] from the drain tube clamp [48].
- (6) Remove the nut [45], washers [44], bolt [43], bonding jumper [51], and case ground wire [46] from the structure.

LOM ALL; AIRPLANES WITH COMPOSITE DRAIN MAST WITH MODIFICATION BONDING JUMPER

SUBTASK 38-31-01-020-023

- (7) Remove the nut [54], lock washer [53], washer [52], bonding jumper [51], case ground wire [46], and thermostat [47] from the drain tube clamp [48].

SUBTASK 38-31-01-020-027

- (8) If the composite mast will be replaced with an aluminum mast, do the following steps:
 - (9) Remove the nut [57], washers [56], screw [55], and bonding jumper [51] from the structure.
 - (10) Retain the nut [57], washers [56], screw [55], and bonding jumper [51].

NOTE: The bonding jumper [51] and attaching parts should be retained for any future composite mast installation.

LOM ALL; AIRPLANES WITH COMPOSITE DRAIN MAST WITH PRODUCTION BONDING JUMPER

SUBTASK 38-31-01-020-025

- (11) If the composite mast will be replaced with an aluminum mast, do the following steps:
 - (a) Remove the nut [45], washers [44], bolt [43], bonding jumper [51] attached to the structure.
 - (b) Retain the nut [45], washers [44], bolt [43], and bonding jumper [51].

NOTE: The bonding jumper [51] and attaching parts should be retained for any future composite mast installation.

LOM ALL

SUBTASK 38-31-01-020-013

- (12) Remove the packing [38], bolts [36], and washers [37] that attach the aft drain mast assembly [34] to the structure.

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LOM ALL

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LOM ALL; AIRPLANES WITH COMPOSITE DRAIN MAST

SUBTASK 38-31-01-030-002

- (13) Remove the ground wire [39] and washer [37] on the bolt [36].
- (14) Remove the ground wire [50] and washer [37] on the bolt [36].

LOM ALL

SUBTASK 38-31-01-020-014

- (15) Remove the aft drain mast assembly [34].

F. Aft Drain Mast Hole Cover Installation

SUBTASK 38-31-01-350-001

- (1) If the drain mast will not be replaced, do these steps to cover the aft drain mast hole:

NOTE: Refer to CDL 38-17-01.

- (a) Do this task: MMEL 30-19 (DDPG) Preparation - Drain Mast Heaters Inoperative, TASK 30-00-00-040-808

NOTE: This task will deactivate the water supply to lavatories and galleys.

- (b) Cap and stow the electrical connectors to the aft drain mast.

- (c) Make an aluminium plate with a minimum thickness of 0.04 in. (1.0 mm) to cover the drain mast hole.

NOTE: The plate should be approximately 6.5 in. (165 mm) by 2.9 in. (74 mm). Use the drain mast hole pattern.

- 1) Make sure there are no sharp edges, burrs or corners on the cover plate (SRM 51-10-01).

- (d) Clean the aluminium plate and the airplane skin with Series 90 solvent, B01010.

- (e) Apply a chemical conversion coating to the airplane skin and to the aluminium plate (CHEMICAL CONVERSION COATING - CLEANING/PAINTING, PAGEBLOCK 51-21-41/701).

- (f) If required, apply one layer of primer to the airplane skin and to the aluminium plate (PRIMER - CLEANING/PAINTING, PAGEBLOCK 51-21-72/701).

- (g) Apply a fay surface seal with sealant, A00247 between the airplane skin and the cover plate. (Non-Removable Faying (Mated) Surface Seal Application, TASK 51-31-00-390-801).

- (h) Install the aluminium plate.

NOTE: BACB30NM4K4 bolts, NAS1149 washers, and BACN11Z nuts are recommended for attachment of the cover plate to the fairing.

- (i) If required, apply a decorative external topcoat to the airplane skin and to the cover plate (TOPCOAT - CLEANING/PAINTING, PAGEBLOCK 51-21-73/701).

———— END OF TASK ————

TASK 38-31-01-400-802

5. Aft Drain Mast - Installation

(Figure 402)

A. References

Reference	Title
21-31-03-400-801	Aft Outflow Valve Assembly Installation (P/B 401)

EFFECTIVITY
LOM ALL

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(Continued)

Reference	Title
30-00-00-440-808	MMEL 30-19 (DDPG) Restoration - Drain Mast Heater Inoperative (P/B 901)
30-71-00-720-801	Drain Mast Heater Ground and Air Mode Test (P/B 501)
38-11-01-400-801	Water Tank Installation (P/B 401)
51-31-00-390-801	Non-Removable Faying (Mated) Surface Seal Application (P/B 201)
51-31-00-390-806	Aerodynamic Smoother Application (P/B 201)
53-21-00-400-801	Passenger Cabin Floor Panel - Installation (P/B 401)
SWPM 20, Standard Wiring Practices	Standard Wiring Practices

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-1550	Bonding Meter - Approved, Intrinsically Safe (Approved for use in Class I, Divisions I & II hazardous (classified) locations. Outside these hazardous locations, COM-614 can be used in lieu of COM-1550). Part #: 620LK Supplier: 1CRL2 Part #: M1 Supplier: 3AD17 Part #: M1B Supplier: 3AD17 Part #: T477W (C15292) Supplier: 06659

C. Consumable Materials

Reference	Description	Specification
A00247	Sealant - Pressure And Environmental - Chromate Type	BMS5-95
A00767	Sealant - Fuel Tank	BMS5-45
A01076	Adhesive - Synthetic Rubber	BAC5010 Type 93 (BMS5-95 Class B)
A02315	Sealant - Low Density, Synthetic Rubber. 2 Part	BMS5-142 Type II
A50009	Sealant - Low Density, Non-Chromate Type. (Formerly Chromate - Synthetic Rubber)	BMS5-142 Type II Class B-1 or B-2
B01010	Solvent - Final Cleaning Before Non-Structural Bonding To Solvent Resistant Organic Coatings (AMM 20-30-90) - Series 90	

D. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
34	Aft drain mast assembly	38-31-01-04-100	LOM ALL
38	Packing	38-31-01-04-025	LOM ALL

E. Location Zones

Zone	Area
240	Subzone - Passenger Compartment - Body Station 663.75 to Body Station 1016.00



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F. Prepare for the Installation

SUBTASK 38-31-01-840-001

- (1) If a drain mast is not present and a drain mast cover plate is installed, do these steps:

- (a) Remove the bolts that secure the cover plate.
- (b) Remove the cover plate.
- (c) Do this task: MMEL 30-19 (DDPG) Restoration - Drain Mast Heater Inoperative, TASK 30-00-00-440-808.

NOTE: This task will re-activate the water supply to lavatories and galleys.

SUBTASK 38-31-01-200-001

- (2) Check the drain mast installation for the correct ground path configuration.

NOTE: Aluminum drain masts are conditionally interchangeable with composite drain masts. Composite masts require a 135A bonding jumper [51] properly grounded to structure. A 135A bonding jumper [51] may be installed per SB 30-1056.

NOTE: Line numbers 1-1934 may have a composite mast installed without the necessary bonding jumper [51] or with an improper ground to structure. Composite masts require a 135A bonding jumper [51] properly grounded to structure. A 135A bonding jumper [51] may be installed per SB 30-1056.

- (a) For composite mast installations, check for 135A bonding jumper [51] mounted to structure at stringer 25 L.

LOM ALL; AIRPLANES WITH COMPOSITE DRAIN MAST WITH MODIFICATION BONDING JUMPER

- (b) If it is necessary, install the bonding jumper [51] to structure.

NOTE: The initial installation of the bonding jumper [51] must be done with SB 30-1056. Subsequent removal and installation of the bonding jumper [51] can be completed with these instructions.

- 1) For initial installation of the bonding jumper [51], install with SB 30-1056.
- 2) For subsequent installation of the bonding jumper [51], do these steps:
 - a) Clean the faying surfaces of the structure and bonding jumper [51] terminal for electrical bonding (SWPM 20, Standard Wiring Practices) with Series 90 solvent, B01010.
 - b) Install the screw [55], washers [56], nut [57], and bonding jumper [51] to the structure.
 - c) Torque the nut [57] to 28 in-lb (3.2 N·m) - 35 in-lb (4 N·m).
 - d) Check that the resistance between the bonding jumper [51] terminal and the structure does not exceed 1. milliohms.
<1> Use the intrinsically safe approved bonding meter, COM-1550, or equivalent.
 - e) Apply adhesive, A01076, or sealant, A50009, to cover the screw [55], washers [56], nut [57], and bonding jumper [51] terminal.

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LOM ALL; AIRPLANES WITH COMPOSITE DRAIN MAST WITH PRODUCTION BONDING JUMPER

- (c) If it is necessary, install the bonding jumper [51] to structure with the drain mast installation steps.

NOTE: The bonding jumper [51] to structure installation steps are included as part of the drain mast installation steps.

LOM ALL

G. Aft Drain Mast Installation

SUBTASK 38-31-01-390-004



WARNING

DO NOT GET SOLVENTS IN YOUR MOUTH, OR YOUR EYES, OR ON YOUR SKIN. DO NOT BREATHE THE FUMES FROM SOLVENTS. SOLVENTS ARE HAZARDOUS MATERIALS. SOLVENTS CAN BE FLAMMABLE OR DANGEROUS TO THE ENVIRONMENT. REFER TO MATERIAL-SAFETY-DATA SHEETS (MSDS) AND LOCAL REQUIREMENTS FOR CORRECT HANDLING PROCEDURES.

- (1) Clean the seal surface of the drain mast and airplane skin with Series 90 solvent, B01010.

LOM ALL; AIRPLANES WITH COMPOSITE DRAIN MAST WITH BONDING JUMPER

SUBTASK 38-31-01-110-001

- (2) Clean the faying surfaces of the mast drain tube [49], drain tube clamp [48], and bonding jumper [51] terminals for electrical bonding (SWPM 20, Standard Wiring Practices) with Series 90 solvent, B01010.

LOM ALL

SUBTASK 38-31-01-390-005

- (3) Apply fay surface seal with sealant, A00247, between the airplane skin and the aft drain mast assembly [34] (TASK 51-31-00-390-801).

SUBTASK 38-31-01-420-006

- (4) Put the aft drain mast assembly [34] in its position.

LOM ALL; AIRPLANES WITH COMPOSITE DRAIN MAST

SUBTASK 38-31-01-430-001

- (5) Put the ground wire [39] and washer [37] on the bolt [36].
(6) Put the ground wire [50] and washer [37] on the bolt [36].

LOM ALL

SUBTASK 38-31-01-420-007

- (7) Loosely install the new packings [38], bolts [36], and washers [37] for the aft drain mast assembly [34].

SUBTASK 38-31-01-420-013

- (8) Torque the bolts [36], in an alternating pattern, to 25 in-lb (3 N·m).
(9) Torque the bolts [36], in an alternating pattern, to 45 in-lb (5.1 N·m) - 55 in-lb (6.2 N·m).

SUBTASK 38-31-01-390-007

- (10) Apply aerodynamic seal with sealant, A02315, to the surfaces of the aft drain mast assembly [34] (TASK 51-31-00-390-806).

NOTE: It is not necessary to apply the sealant immediately if the cure time will cause a flight delay. But to prevent moisture damage to the airplane, sealant should be applied as soon as it is convenient for the operator.

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LOM ALL; AIRPLANES WITH ALUMINUM DRAIN MAST OR COMPOSITE DRAIN MAST WITHOUT BONDING JUMPER

SUBTASK 38-31-01-420-009

- (11) Install the case ground wire [46], washers [44], bolt [43], and nut [45] to the structure.
 - (a) Make sure that the surfaces that touch are clean.
 - (b) Apply fillet seal with sealant, A02315, to the surfaces that touch and to the area of the fasteners.

LOM ALL; AIRPLANES WITH COMPOSITE DRAIN MAST WITH PRODUCTION BONDING JUMPER

SUBTASK 38-31-01-430-002

- (12) Install the ground connections.
 - (a) Put the drain tube clamp [48] in its position on the drain tube [49].
 - (b) Position the thermostat [47] as near to the top of the tube as possible without interfering with the hose assembly [33] or hose clamp [32].
 - (c) Connect one end of the bonding jumper [51], thermostat [47], washer [52], lock washer [53], and nut [54] to the drain tube clamp [48].
 - (d) Torque the nut [54] to 25 in-lb (2.8 N·m) - 30 in-lb (3 N·m).
 - (e) Connect the other end of the bonding jumper [51] to the structure.
 - 1) Clean the faying surfaces of the structure and the bonding jumper [51] terminal for electrical bonding (SWPM 20, Standard Wiring Practices) with Series 90 solvent, B01010.
 - 2) Install the bonding jumper [51], case ground wire [46], washers [44], bolt [43], and nut [45] to the structure.
 - 3) Torque the nut [45] to 28 in-lb (3.2 N·m) - 35 in-lb (4 N·m).
 - (f) Check that the resistance between the bonding jumper [51] terminal and the drain tube [49] tube does not exceed 1.5 milliohms.
 - 1) Use the intrinsically safe approved bonding meter, COM-1550, or equivalent.
 - (g) Check that the resistance between the bonding jumper [51] terminal and the structure does not exceed 1. milliohms.
 - 1) Use the intrinsically safe approved bonding meter, COM-1550, or equivalent.
 - (h) Apply sealant, A00767 (optional sealant, A02315), to cover the bonding jumper [51] terminal, thermostat [47] stud terminal, washers [52], lock washer [53], and nut [54].
 - (i) Apply adhesive, A01076, or sealant, A50009, to cover the bonding jumper [51] terminal, case ground wire [46], washers [44], bolt [43], and nut [45].
 - (j) Apply sealant, A02315, to the faying surfaces of the drain tube [49] and drain tube clamp [48].

LOM ALL; AIRPLANES WITH COMPOSITE DRAIN MAST WITH MODIFICATION BONDING JUMPER

SUBTASK 38-31-01-420-015

- (13) Install the ground connection at the drain tube clamp.
 - (a) Put the drain tube clamp [48] in its position on the drain tube [49].
 - (b) Position the thermostat [47] as near to the top of the tube as possible without interfering with the hose assembly [33] or hose clamp [32].
 - (c) Connect the bonding jumper [51], thermostat [47], case ground wire [46], washer [52], lock washer [53], and nut [54] to the drain tube clamp [48].

EFFECTIVITY
LOM ALL

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LOM ALL; AIRPLANES WITH COMPOSITE DRAIN MAST WITH MODIFICATION BONDING JUMPER
(Continued)

- (d) Torque the nut [54] to 28 in-lb (3.2 N·m) - 35 in-lb (4 N·m).
- (e) Check that the resistance between the bonding jumper [51] terminal and the drain tube [49] tube does not exceed 1.5 milliohms.
 - 1) Use the intrinsically safe approved bonding meter, COM-1550, or equivalent.
- (f) Apply sealant, A00767 (optional sealant, A02315), to cover the bonding jumper [51] terminal, thermostat [47] stud, case ground wire [46] terminal, washer [52], lock washer [53], and nut [54].
- (g) Apply sealant, A02315, to the faying surfaces of the drain tube [49] and drain tube clamp [48].

LOM ALL

SUBTASK 38-31-01-420-010

- (14) Install the hose clamp [32] and the hose assembly [33] to the drain tube [49].

SUBTASK 38-31-01-420-017

- (15) Torque the hose clamp [32] to 35 in-lb (4.0 N·m) - 50 in-lb (5.6 N·m).

SUBTASK 38-31-01-020-015

- (16) Connect the electrical splice connections to the heater wires [31].

SUBTASK 38-31-01-020-016

- (17) If it is necessary, install the wire ties to the heater wires [31].

H. Aft Drain Mast Installation Test

SUBTASK 38-31-01-040-002

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

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
E	3	C00234	HEATERS DRAIN MAST GND
E	4	C00700	HEATERS DRAIN MAST AIR

SUBTASK 38-31-01-860-006

- (2) Open the water faucet for an aft lavatory.

SUBTASK 38-31-01-710-003

- (3) Make sure that the water flows from the aft drain mast without leakage.

SUBTASK 38-31-01-710-004

- (4) Make sure that the drain mast heater is in operation (TASK 30-71-00-720-801).

I. Put the Airplane Back to Its Usual Condition

SUBTASK 38-31-01-410-002

- (1) Close the access for the aft drain mast, do one of these steps:



SEAL THE PASSENGER COMPARTMENT WITH THE FLOOR PANELS.
OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN
YOU INSTALL THE FLOOR PANELS. IF YOU INSTALL THE FLOOR
PANELS INCORRECTLY, THE SMOKE CAN GO INTO THE PASSENGER
COMPARTMENT DURING A FIRE AND CAUSE INJURY.

- (a) Do this task: Passenger Cabin Floor Panel - Installation, TASK 53-21-00-400-801.

EFFECTIVITY
LOM ALL

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- (b) Do this task: Aft Outflow Valve Assembly Installation, TASK 21-31-03-400-801.
- (c) Do this task: Water Tank Installation, TASK 38-11-01-400-801.

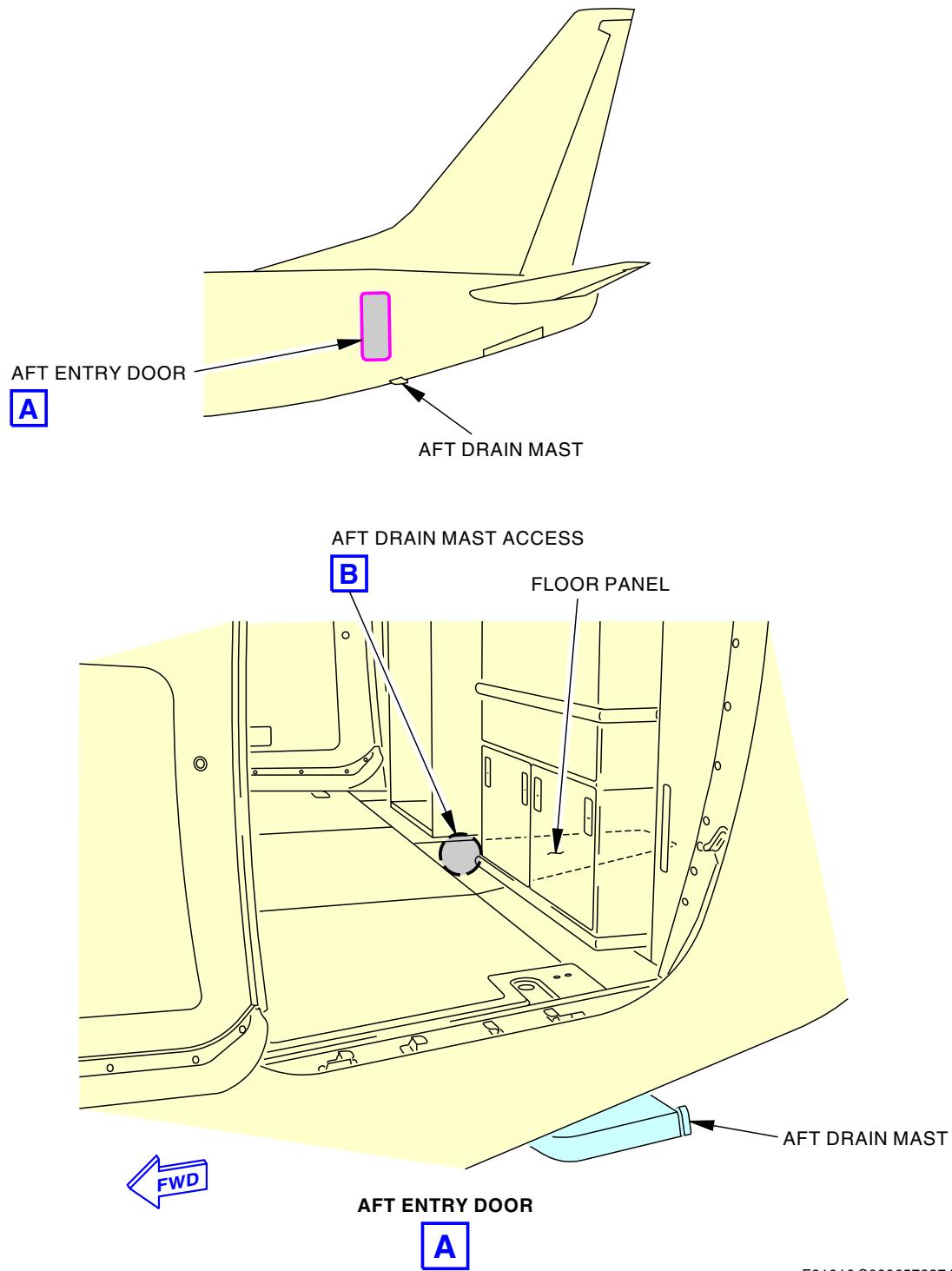
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EFFECTIVITY
LOM ALL

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Aft Drain Mast Installation
Figure 402/38-31-01-990-801 (Sheet 1 of 8)

EFFECTIVITY
LOM ALL

38-31-01

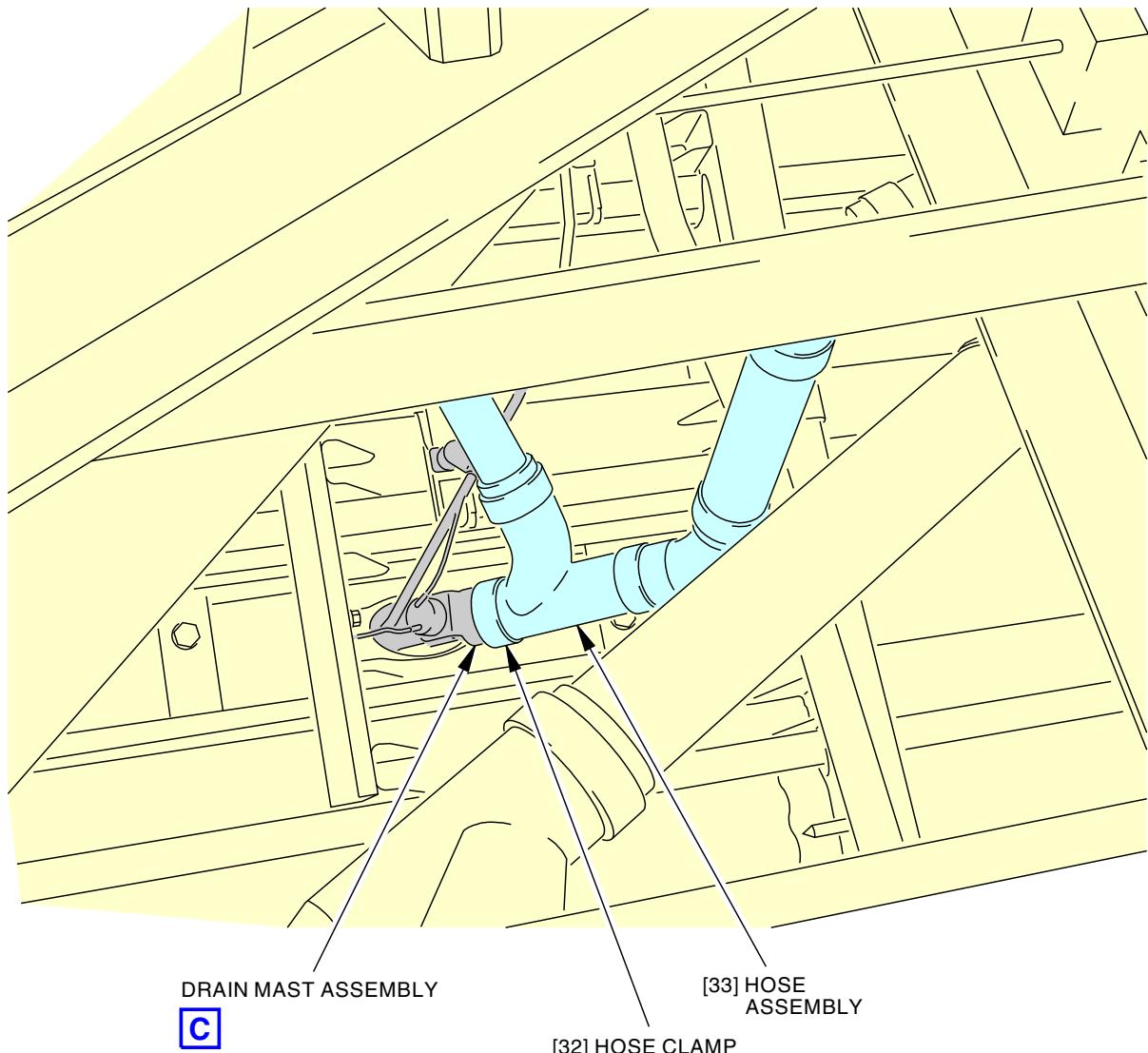
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F81989 S0006578376_V4

Aft Drain Mast Installation
Figure 402/38-31-01-990-801 (Sheet 2 of 8)

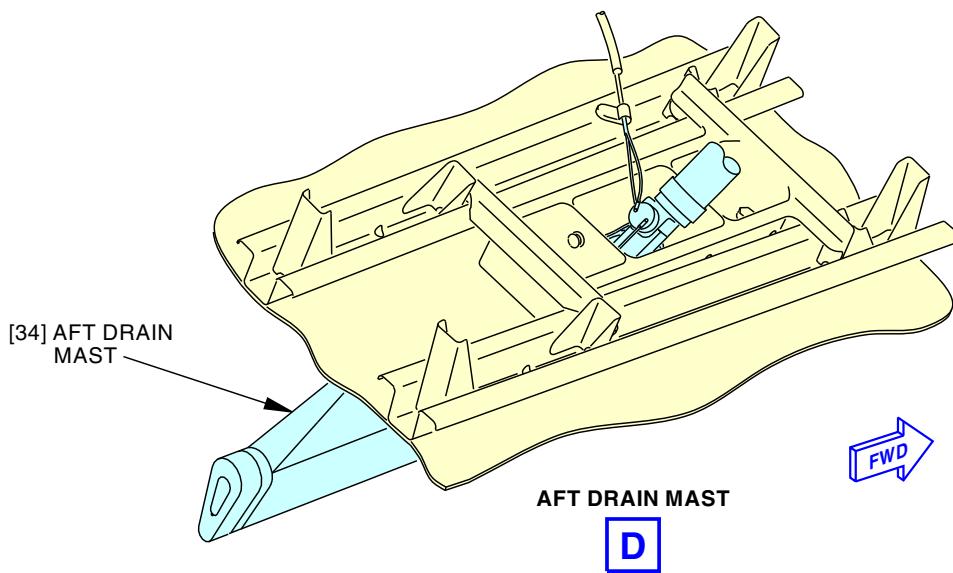
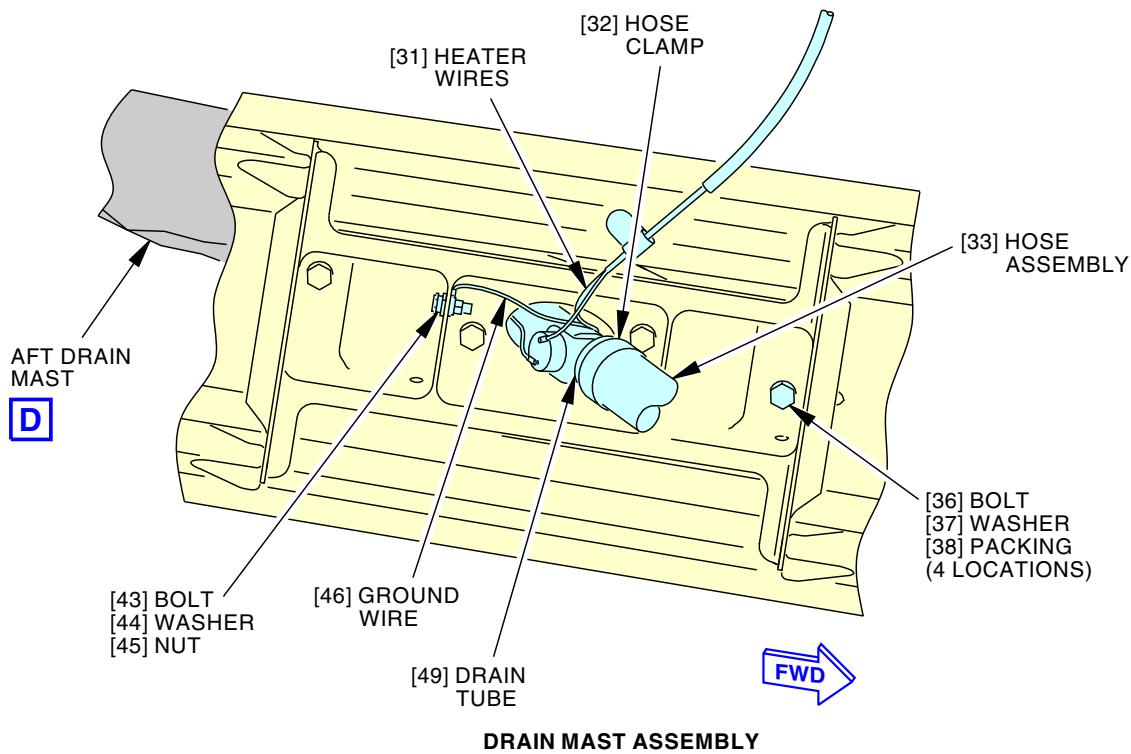
EFFECTIVITY
LOM ALL

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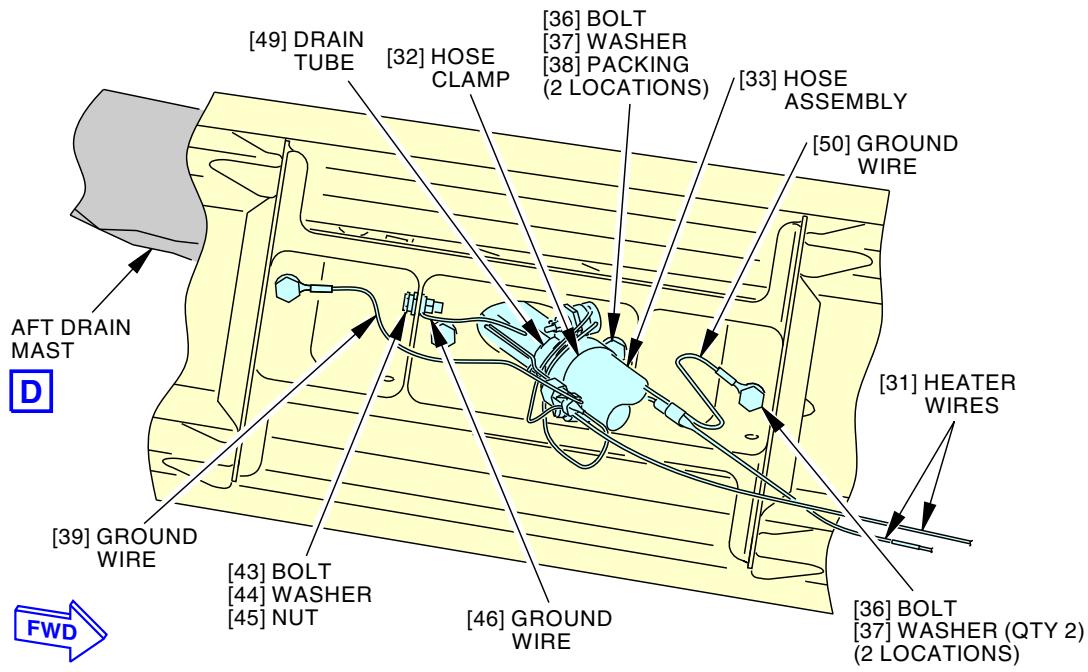
**737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL**


1915992 S0000343161_V4

Aft Drain Mast Installation
Figure 402/38-31-01-990-801 (Sheet 3 of 8)

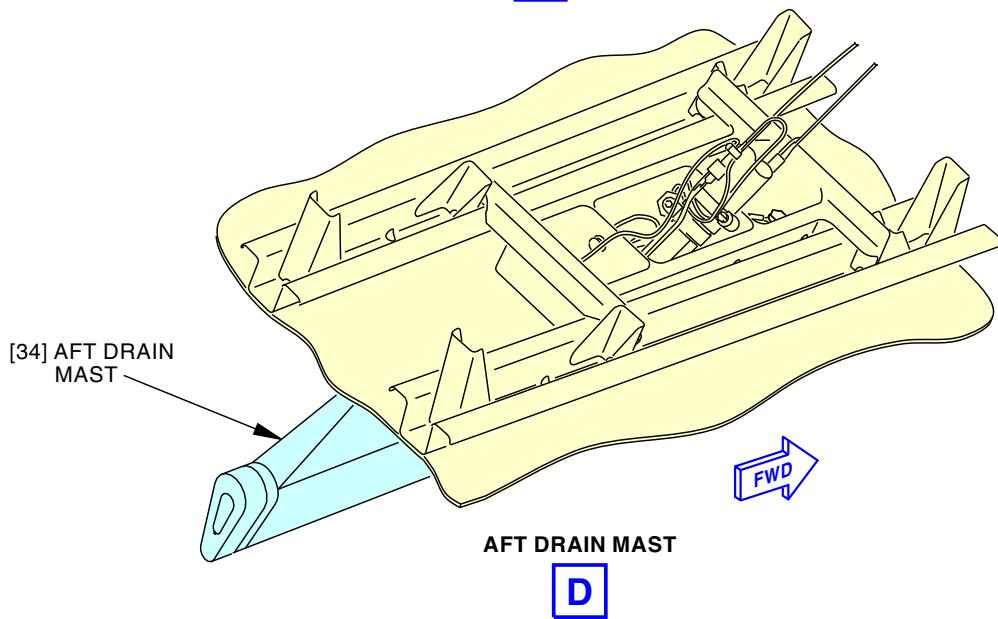
EFFECTIVITY
LOM ALL; AIRPLANES WITH ALUMINUM DRAIN
MAST

38-31-01

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


**DRAIN MAST ASSEMBLY
(COMPOSITE DRAIN MAST WITHOUT BONDING JUMPER)**

C



AFT DRAIN MAST

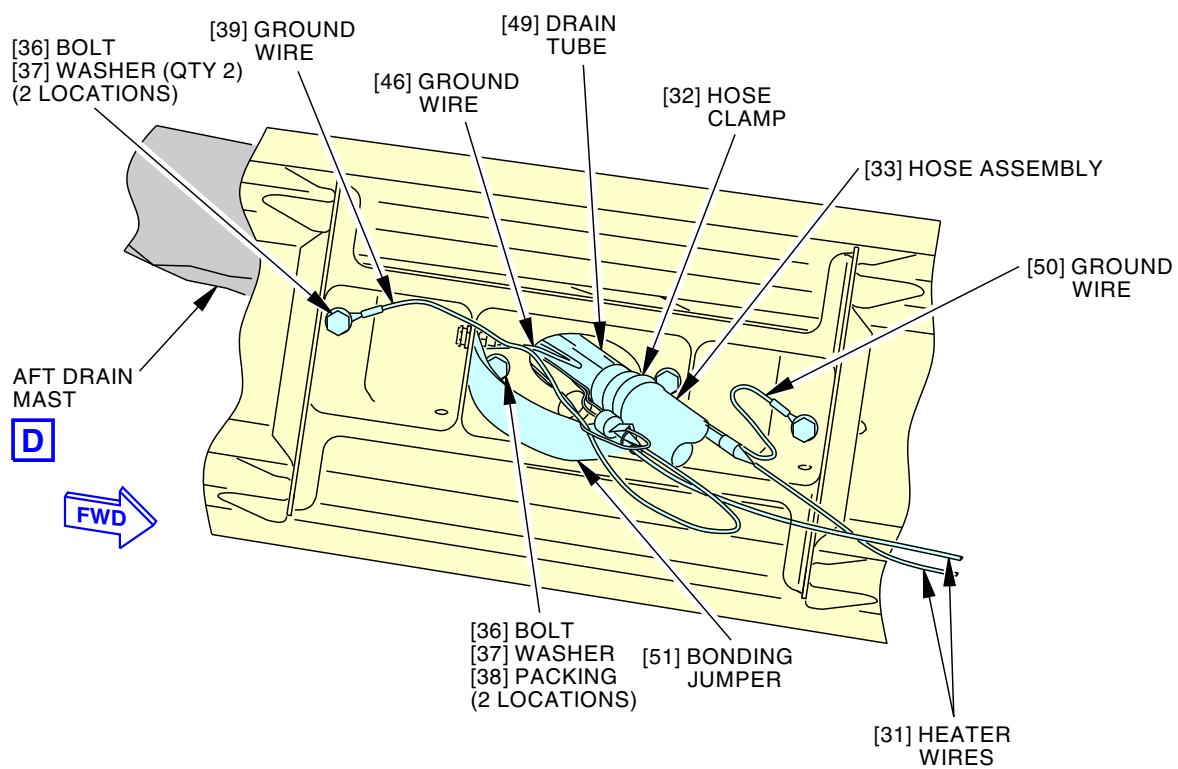
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1916442 S0000343164_V4

**Aft Drain Mast Installation
Figure 402/38-31-01-990-801 (Sheet 4 of 8)**

EFFECTIVITY
LOM ALL; AIRPLANES WITH COMPOSITE DRAIN
MAST WITHOUT BONDING JUMPER

38-31-01



**AFT DRAIN MAST ASSEMBLY
(COMPOSITE DRAIN MAST WITH
PRODUCTION BONDING JUMPER)**

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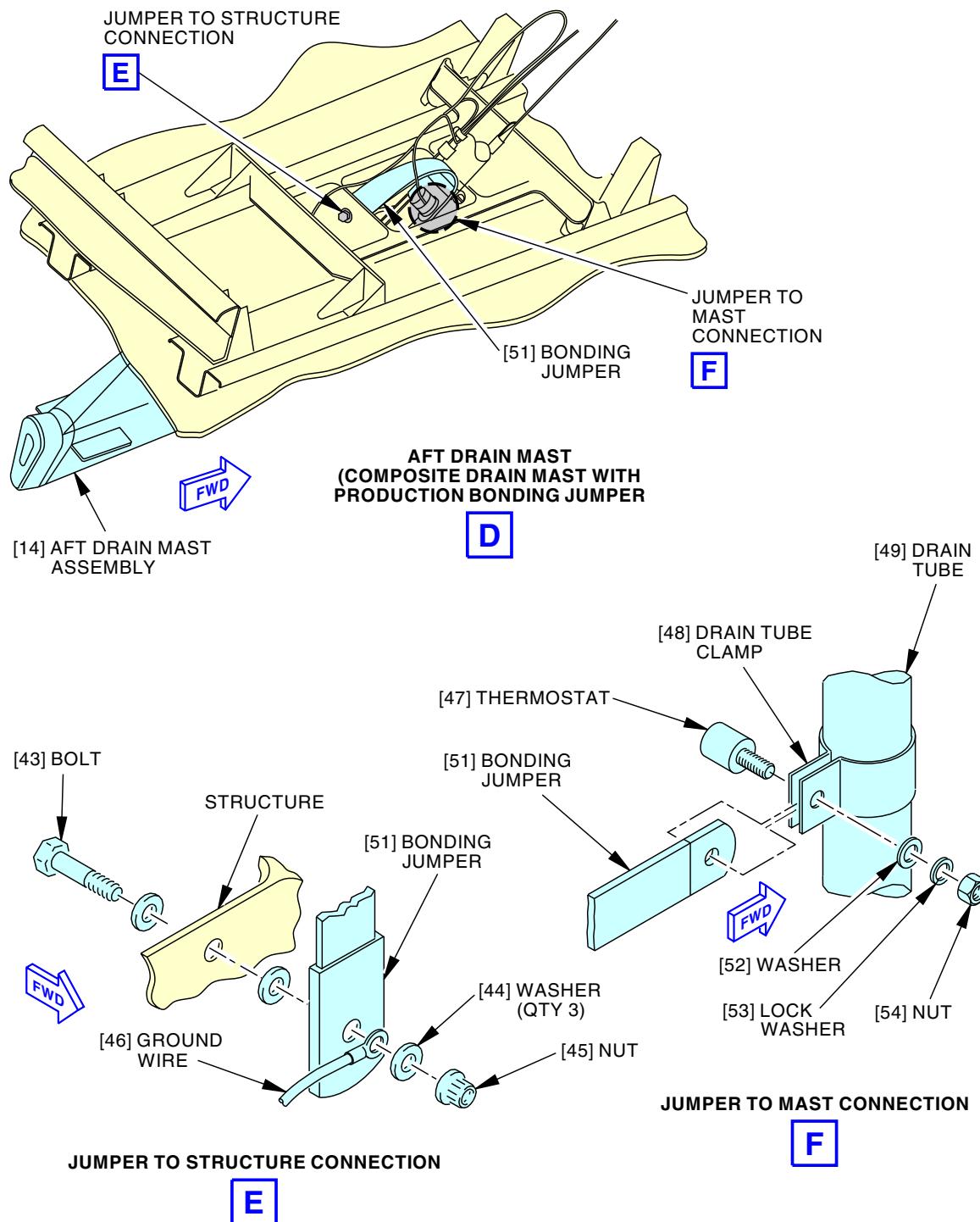
Aft Drain Mast Installation
Figure 402/38-31-01-990-801 (Sheet 5 of 8)

EFFECTIVITY
**LOM ALL; AIRPLANES WITH COMPOSITE DRAIN
MAST WITH PRODUCTION BONDING JUMPER**

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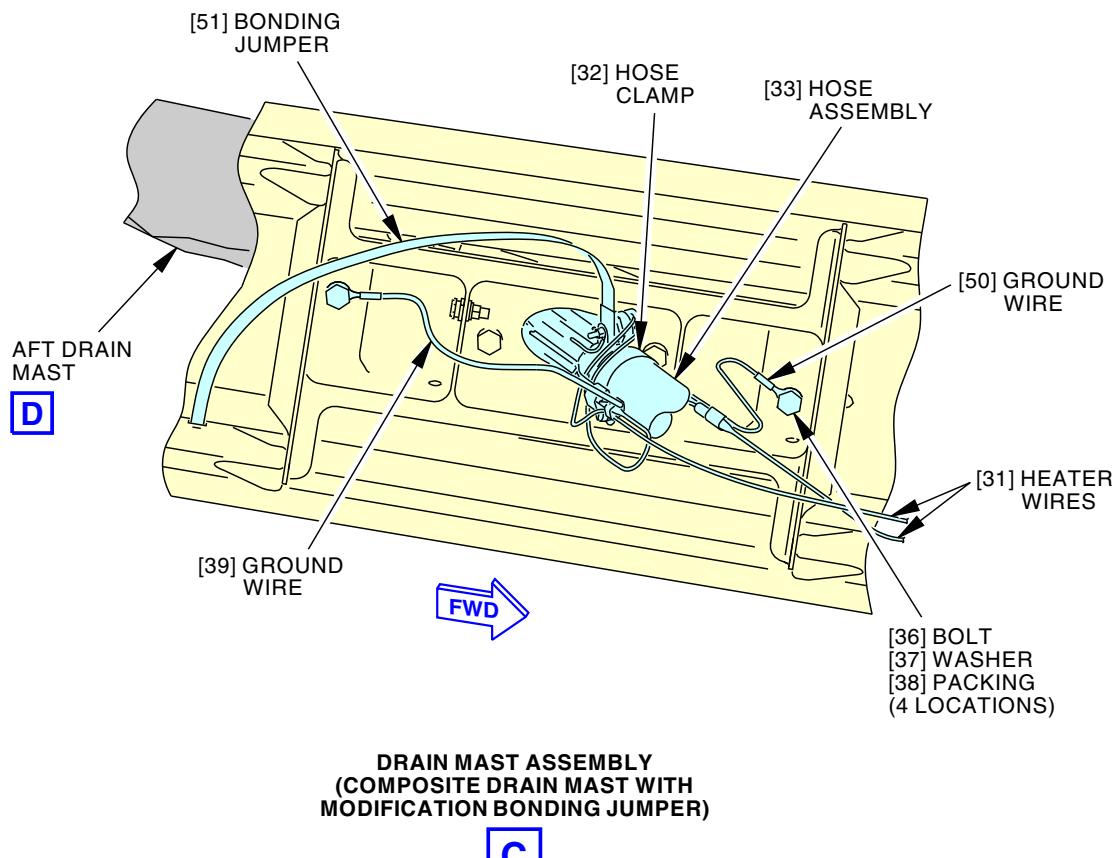


U52805 S0000195799_V4

Aft Drain Mast Installation
Figure 402/38-31-01-990-801 (Sheet 6 of 8)

EFFECTIVITY
**LOM ALL; AIRPLANES WITH COMPOSITE DRAIN
MAST WITH PRODUCTION BONDING JUMPER**

38-31-01



1916848 S0000344023_V3

Aft Drain Mast Installation
Figure 402/38-31-01-990-801 (Sheet 7 of 8)

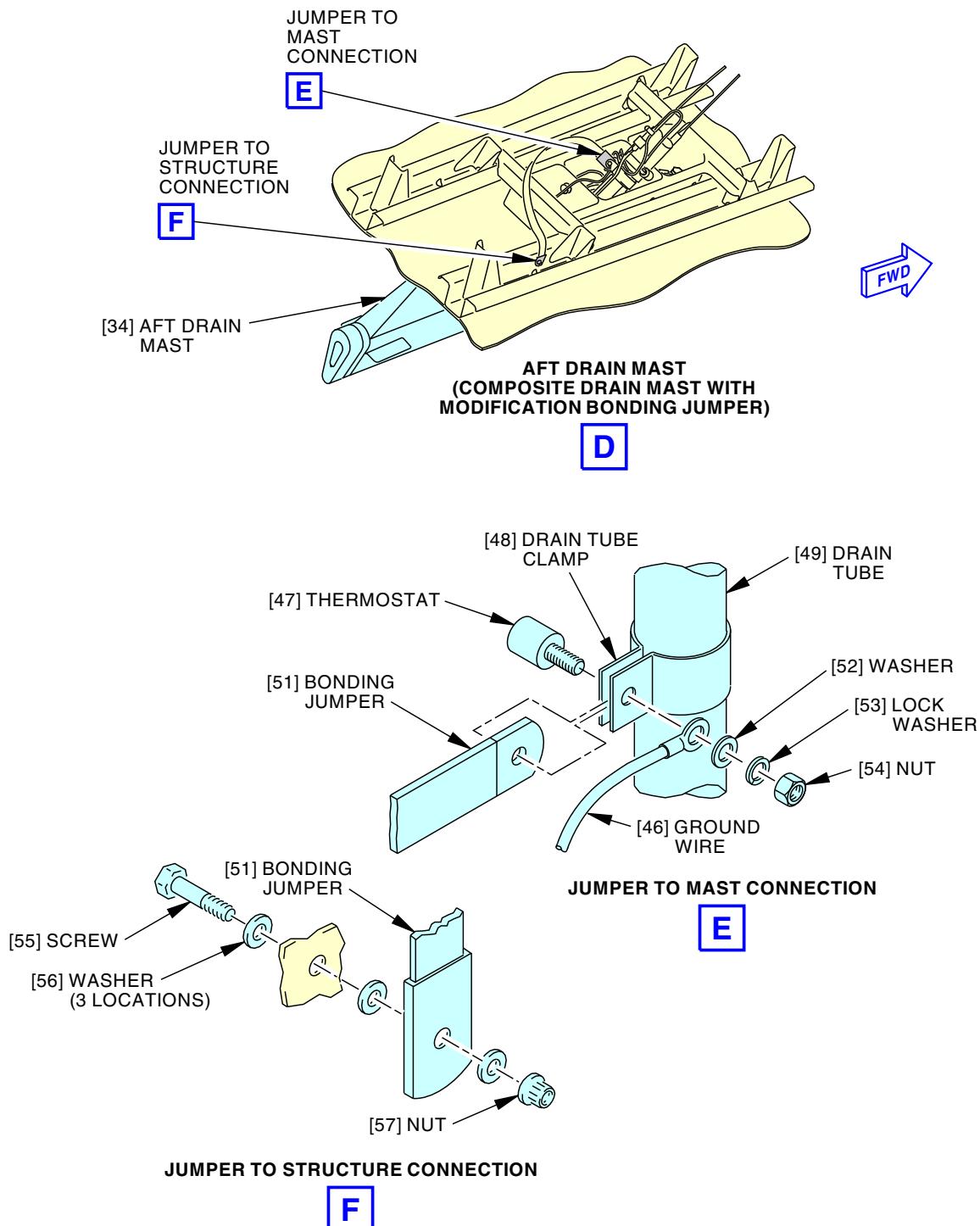
EFFECTIVITY
**LOM ALL; AIRPLANES WITH COMPOSITE DRAIN
MAST WITH MODIFICATION BONDING JUMPER**

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

38-31-01

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1916899 S0000344420_V4

Aft Drain Mast Installation
Figure 402/38-31-01-990-801 (Sheet 8 of 8)

EFFECTIVITY
**LOM ALL; AIRPLANES WITH COMPOSITE DRAIN
 MAST WITH MODIFICATION BONDING JUMPER**

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FORWARD GRAY WATER DRAIN VALVE - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
- (1) A removal of the forward gray water drain valve.
 - (2) An installation of the forward gray water drain valve.

TASK 38-31-02-000-801

2. Forward Gray Water Drain Valve Removal

(Figure 401)

A. Location Zones

Zone Area

191 Lower Wing-To-Body Fairing - Forward of Wing Box

B. Access Panels

Number Name/Location

117A Electronic Equipment Access Door

C. Prepare for the Removal

SUBTASK 38-31-02-010-001

- (1) To get access to the forward drain valve assembly [1], do this step:
 - (a) Open this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-31-02-860-001

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

CAPT Electrical System Panel, P18-3

Row Col Number Name

E 19 C01462 GREY WATER DRAIN VALVE

D. Forward Gray Water Drain Valve Removal

SUBTASK 38-31-02-020-001

- (1) Loosen the clamp [2] to disconnect the hose from the forward drain valve assembly [1].

SUBTASK 38-31-02-020-002

- (2) Disconnect the electrical connector, D12092 [5] from the forward drain valve assembly [1].

SUBTASK 38-31-02-020-003

- (3) Loosen the clamp [4] to disconnect the hose from the forward drain valve assembly [1].

SUBTASK 38-31-02-020-004

- (4) Remove the screws [3] and washers [6] that attach the forward drain valve assembly [1] to the structure.

SUBTASK 38-31-02-020-005

- (5) Remove the forward drain valve assembly [1].

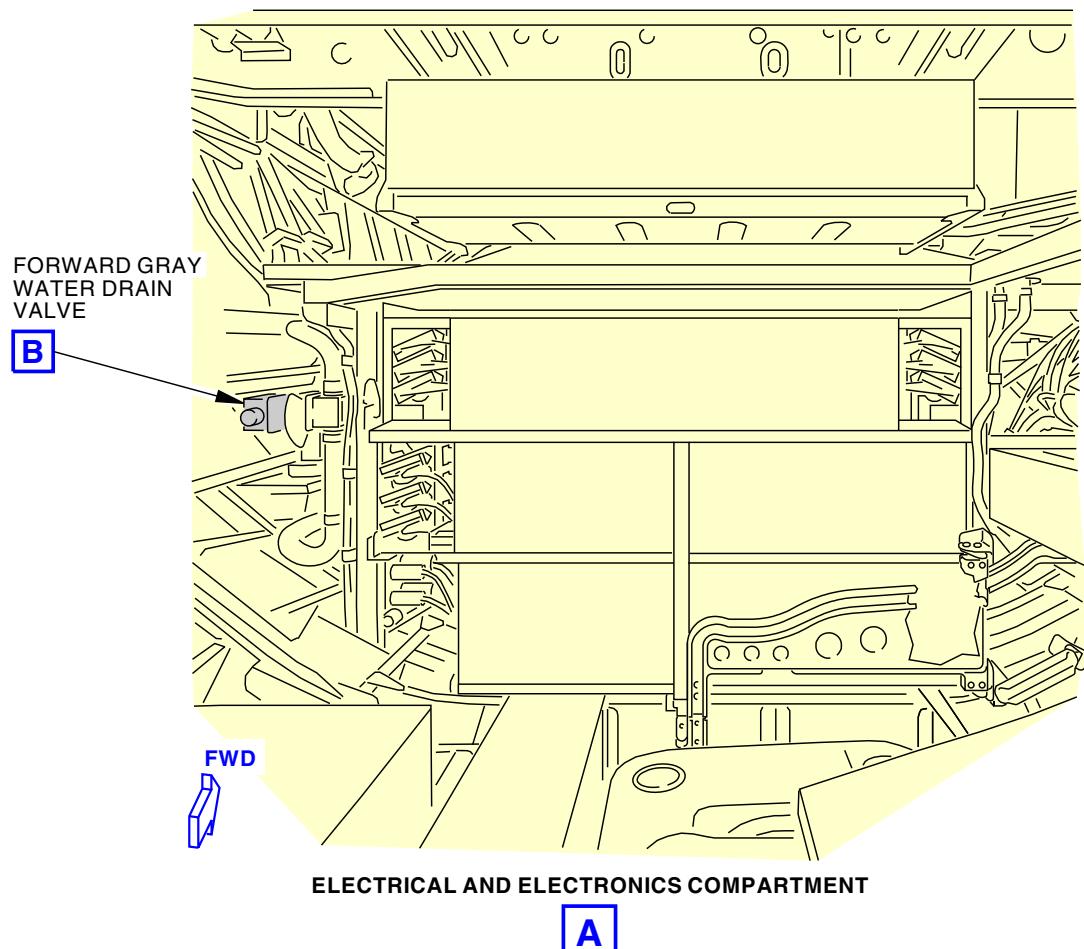
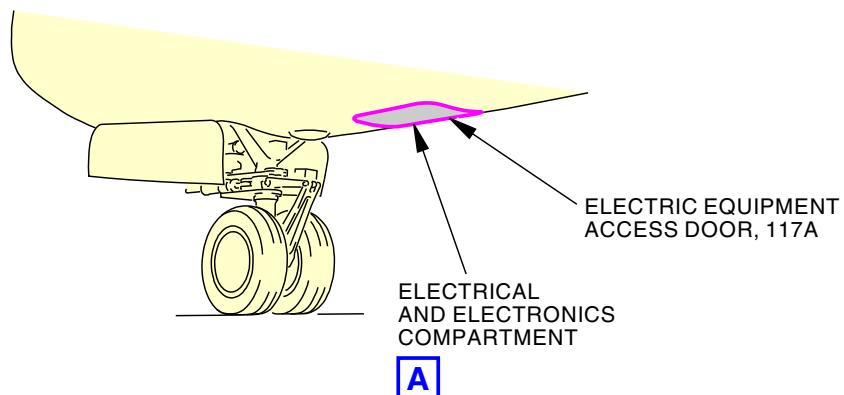
———— END OF TASK ————

EFFECTIVITY
LOM 402, 406, 432

38-31-02



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AIRCRAFT MAINTENANCE MANUAL



G17482 S0006578381_V2

Forward Gray Water Drain Valve Installation
Figure 401/38-31-02-990-802 (Sheet 1 of 2)

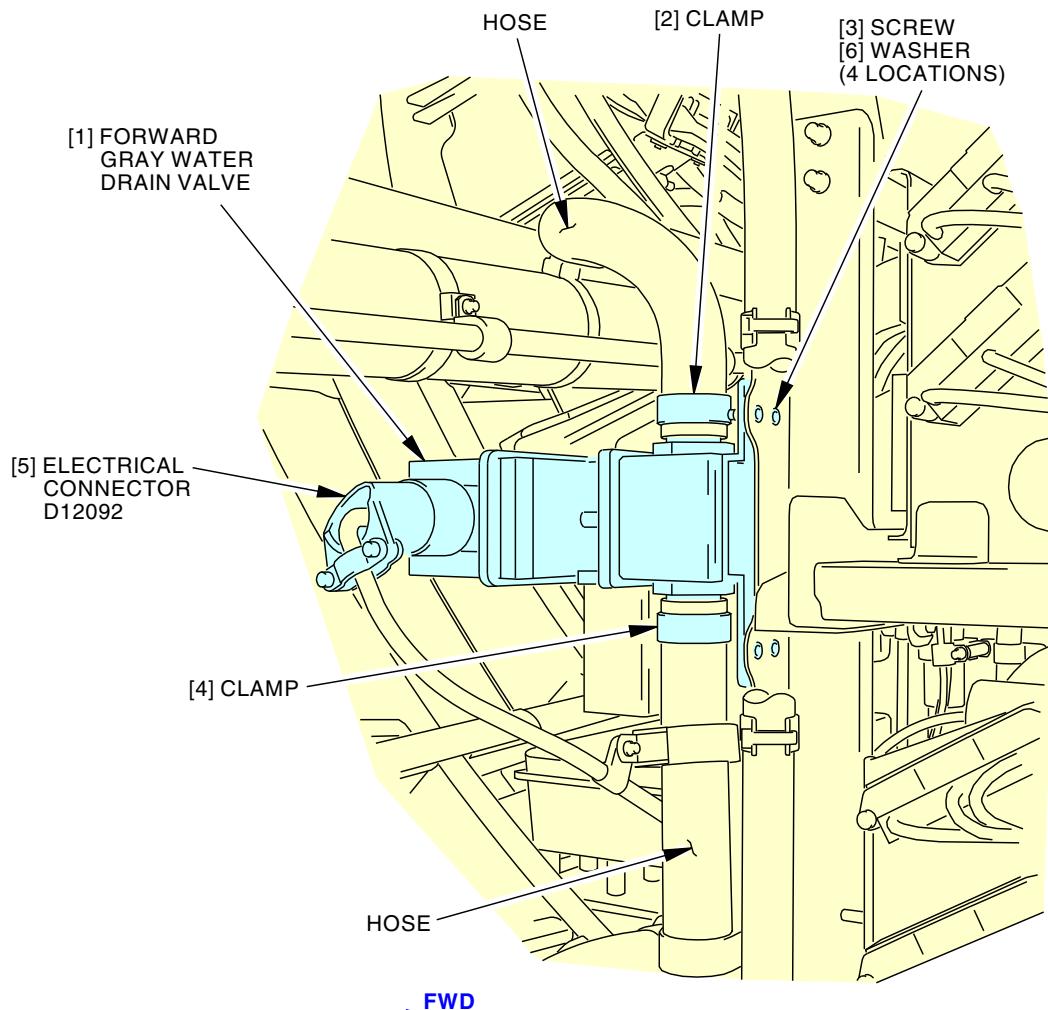
EFFECTIVITY
LOM 402, 406, 432

38-31-02

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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FORWARD GRAY WATER DRAIN VALVE

B

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Forward Gray Water Drain Valve Installation
Figure 401/38-31-02-990-802 (Sheet 2 of 2)EFFECTIVITY
LOM 402, 406, 432**38-31-02**

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

TASK 38-31-02-400-801

3. Forward Gray Water Drain Valve Installation

(Figure 401)

A. References

Reference	Title
32-09-00-860-801	Put the Airplane in the Air Mode (P/B 201)
32-09-00-860-802	Return the Airplane to the Ground Mode (P/B 201)

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Valve assembly	38-31-51-19-250	LOM 402, 406, 432

C. Location Zones

Zone	Area
191	Lower Wing-To-Body Fairing - Forward of Wing Box

D. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

E. Forward Gray Water Drain Valve Installation

SUBTASK 38-31-02-420-001

- (1) Put the forward drain valve assembly [1] in its position.

SUBTASK 38-31-02-420-002

- (2) Install the screws [3] and washers [6] for the forward drain valve assembly [1].
 - (a) Install the screws [3] loosely.

SUBTASK 38-31-02-420-003

- (3) Install the clamp [2] and hose to the forward drain valve assembly [1].

SUBTASK 38-31-02-420-004

- (4) Install the clamp [4] and hose to the forward drain valve assembly [1].

SUBTASK 38-31-02-420-005

- (5) Tighten the screws [3] for the forward drain valve assembly [1] to 20 in-lb (2.3 N·m).

SUBTASK 38-31-02-020-006

- (6) Connect the electrical connector, D12092 [5] to the forward drain valve assembly [1].

F. Forward Gray Water Drain Valve Installation Test

SUBTASK 38-31-02-040-001

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
E	19	C01462	GREY WATER DRAIN VALVE

SUBTASK 38-31-02-860-004

- (2) Put the airplane into "AIR MODE", do this task: Put the Airplane in the Air Mode, TASK 32-09-00-860-801.

SUBTASK 38-31-02-710-002

- (3) Make sure that the forward gray water drain valve closes.

EFFECTIVITY
LOM 402, 406, 432

38-31-02



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SUBTASK 38-31-02-860-003

- (4) Open the water faucet for a forward lavatory.

SUBTASK 38-31-02-710-001

- (5) Make sure that no water flows from the forward gray water drain valve and that the fittings are without leakage.

SUBTASK 38-31-02-860-005

- (6) Put the airplane into "GROUND MODE", do this task: Return the Airplane to the Ground Mode, TASK 32-09-00-860-802.

SUBTASK 38-31-02-710-003

- (7) Make sure that the forward gray water drain valve opens.

SUBTASK 38-31-02-710-004

- (8) Make sure that the water flows to the forward gray water drain valve without leakage.

G. Put the Airplane Back to Its Usual Condition

SUBTASK 38-31-02-410-001

- (1) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

———— END OF TASK ————

EFFECTIVITY
LOM 402, 406, 432

38-31-02



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SILL DRAIN FLOAT VALVE - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
- (1) A removal of the forward sill drain float valve.
 - (2) An installation of the forward sill drain float valve.
 - (3) A removal of the aft sill drain float valve.
 - (4) An installation of the aft sill drain float valve.

TASK 38-31-06-000-801

2. Forward Sill Drain Float Valve Removal

(Figure 401)

A. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left

B. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

C. Prepare for the Removal

SUBTASK 38-31-06-010-001

- (1) Open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

D. Forward Sill Drain Float Valve Removal

SUBTASK 38-31-06-020-001

- (1) Loosen the clamp [6] and disconnect the drain lines from each end of the float valve [1].

SUBTASK 38-31-06-020-002

- (2) Remove the screws [2], and washers [3], attaching the strap [4], saddle [5], and float valve [1] to the structure.

SUBTASK 38-31-06-020-003

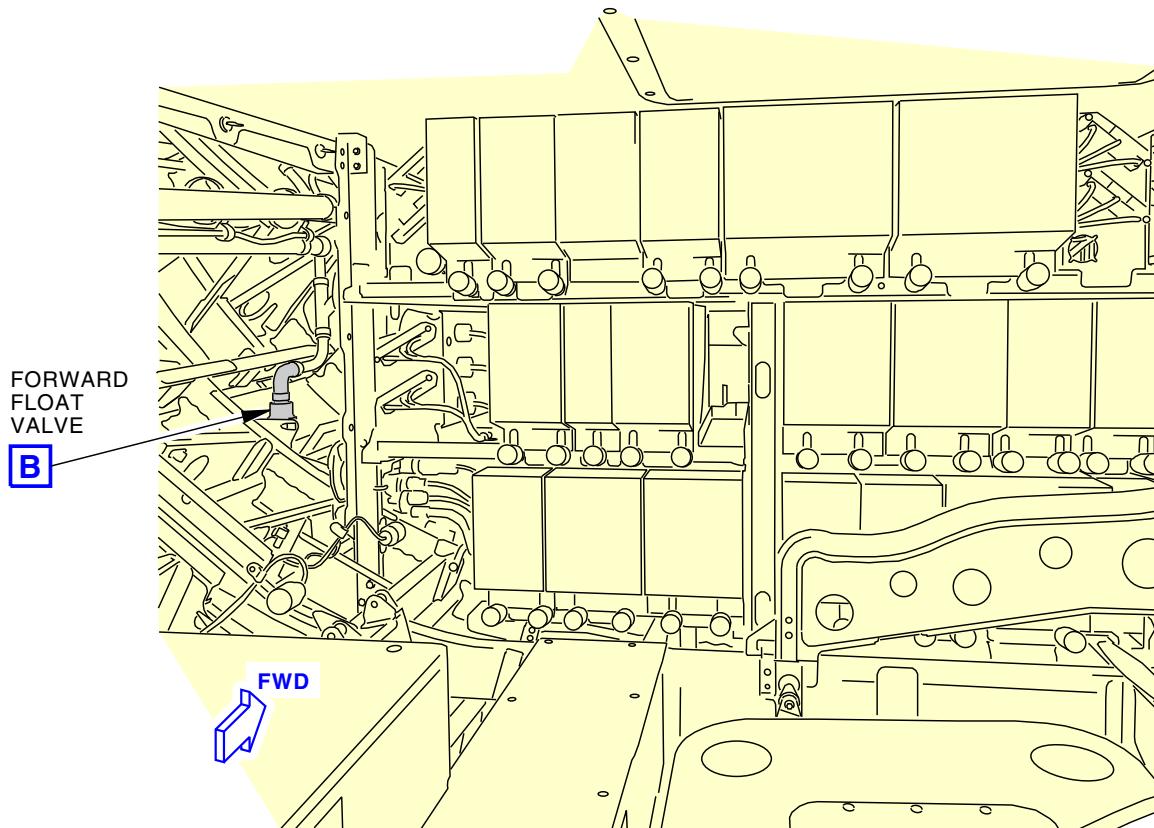
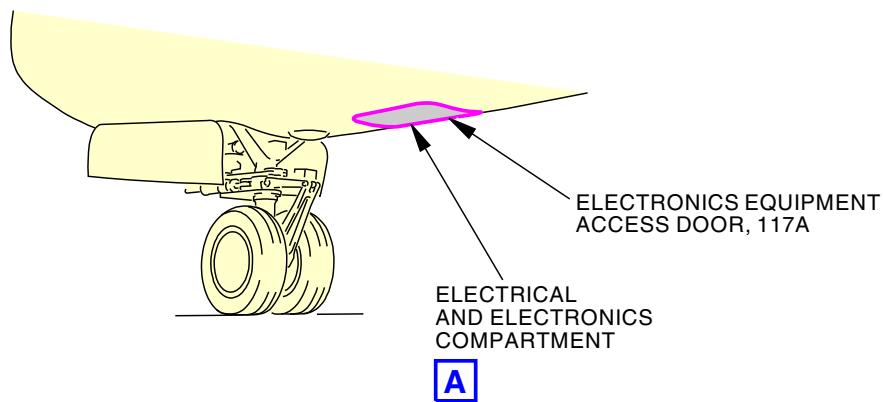
- (3) Remove the float valve [1].

———— END OF TASK ————





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AIRCRAFT MAINTENANCE MANUAL



ELECTRICAL AND ELECTRONICS COMPARTMENT

A

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Forward Float Valve Installation
Figure 401/38-31-06-990-804 (Sheet 1 of 2)

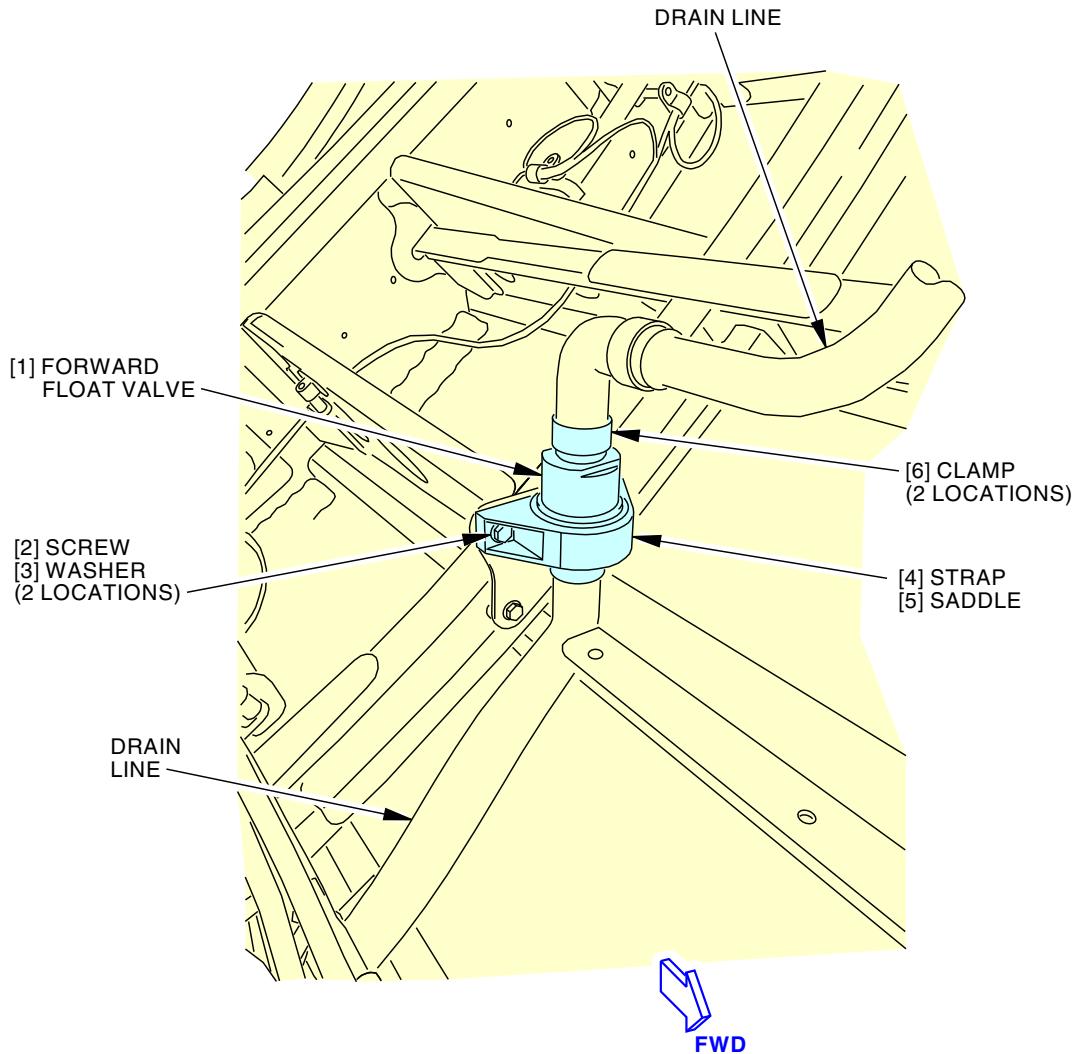
EFFECTIVITY
LOM ALL

38-31-06

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FORWARD FLOAT VALVE

B

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Forward Float Valve Installation
Figure 401/38-31-06-990-804 (Sheet 2 of 2)

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LOM ALL**38-31-06**

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AIRCRAFT MAINTENANCE MANUAL

TASK 38-31-06-400-801

3. Forward Sill Drain Float Valve Installation

(Figure 401)

A. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Float valve	38-31-03-01-450	LOM ALL

B. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left

C. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

D. Forward Sill Drain Float Valve Installation

SUBTASK 38-31-06-420-001

- (1) Attach the float valve [1] to the structure with the saddle [5], strap [4], screws [2], and washers [3].

NOTE: The lip on the float valve must be above the strap.

SUBTASK 38-31-06-390-001

- (2) Install each end of the float valve [1] to the drain lines and tighten the clamps [6].
(a) Make sure that the float valve [1] is properly oriented.

E. Forward Sill Drain Float Valve Assembly Installation Test

SUBTASK 38-31-06-860-002

- (1) Pour water into the sill drain at the forward entry door.

SUBTASK 38-31-06-710-001

- (2) Make sure that the water flows through the forward sill drain valve assembly without leakage.

F. Put the Airplane Back to Its Usual Condition

SUBTASK 38-31-06-410-001

- (1) Close this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

———— END OF TASK ————

TASK 38-31-06-000-802

4. Aft Sill Drain Valve Assembly Removal

(Figure 402)

A. References

Reference	Title
21-31-03-000-801	Aft Outflow Valve Assembly Removal (P/B 401)
38-11-01-000-801	Water Tank Removal (P/B 401)
53-21-00-000-801	Passenger Cabin Floor Panel - Removal (P/B 401)

— EFFECTIVITY —
LOM ALL



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B. Location Zones

Zone	Area
145	Aft Cargo Compartment Equipment Bay - Left

C. Prepare for the Removal

SUBTASK 38-31-06-010-002

- (1) To get access to the aft sill drain valve assembly, do one of these steps:
 - (a) Do this task: Passenger Cabin Floor Panel - Removal, TASK 53-21-00-000-801.
 - (b) Do this task: Aft Outflow Valve Assembly Removal, TASK 21-31-03-000-801.
 - (c) Do this task: Water Tank Removal, TASK 38-11-01-000-801.

D. Aft Sill Drain Float Valve Removal

SUBTASK 38-31-06-020-004

- (1) Loosen the clamps [26] and disconnect the drain line from each end of the aft float valve [21].

SUBTASK 38-31-06-020-005

- (2) Remove the screws [22], and washers [23], attaching the strap [24], saddle [25], and aft float valve [21] to the structure.

SUBTASK 38-31-06-020-006

- (3) Remove the aft float valve [21].

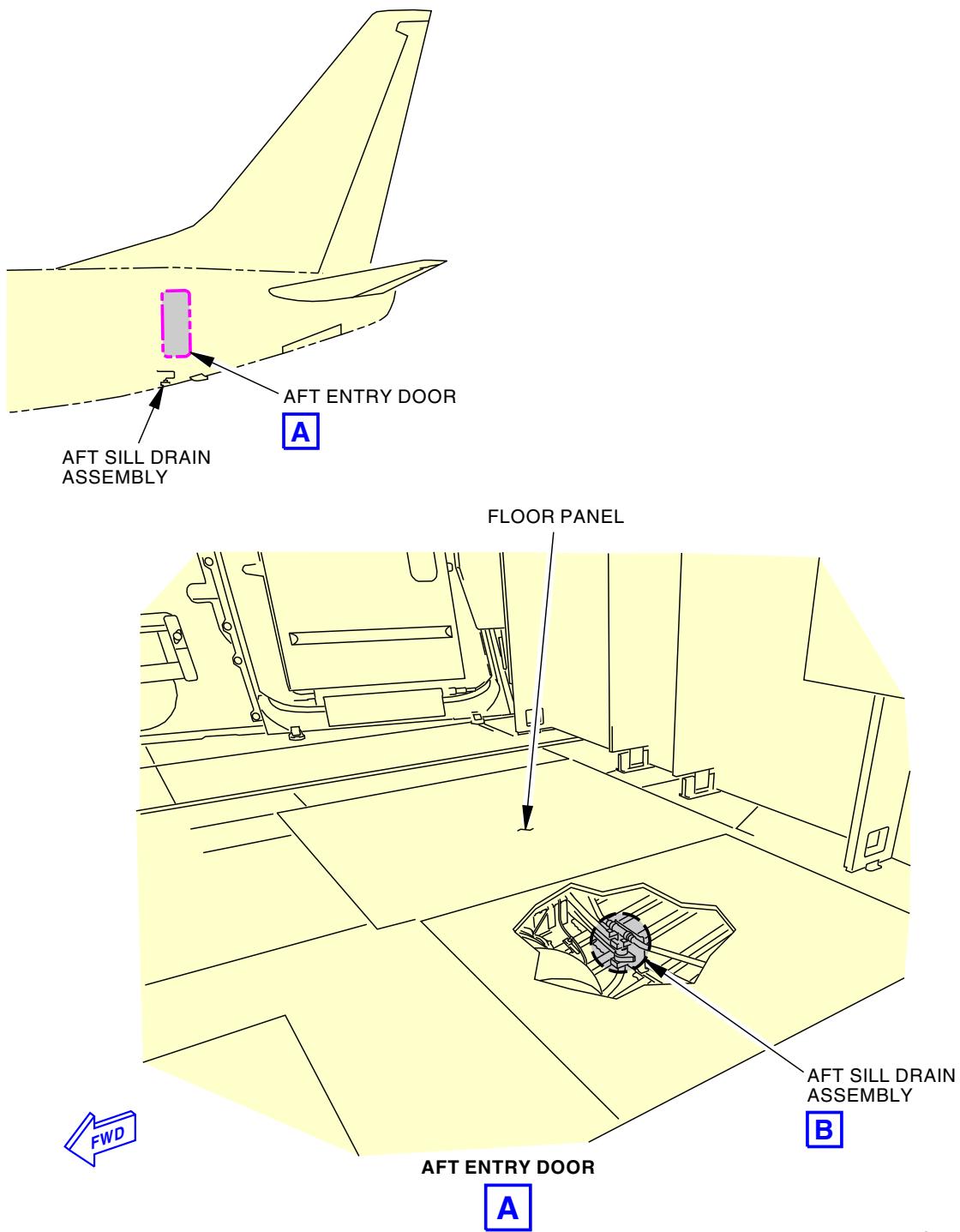
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EFFECTIVITY
LOM ALL

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Aft Float Valve Installation
Figure 402/38-31-06-990-803 (Sheet 1 of 2)

EFFECTIVITY
LOM ALL

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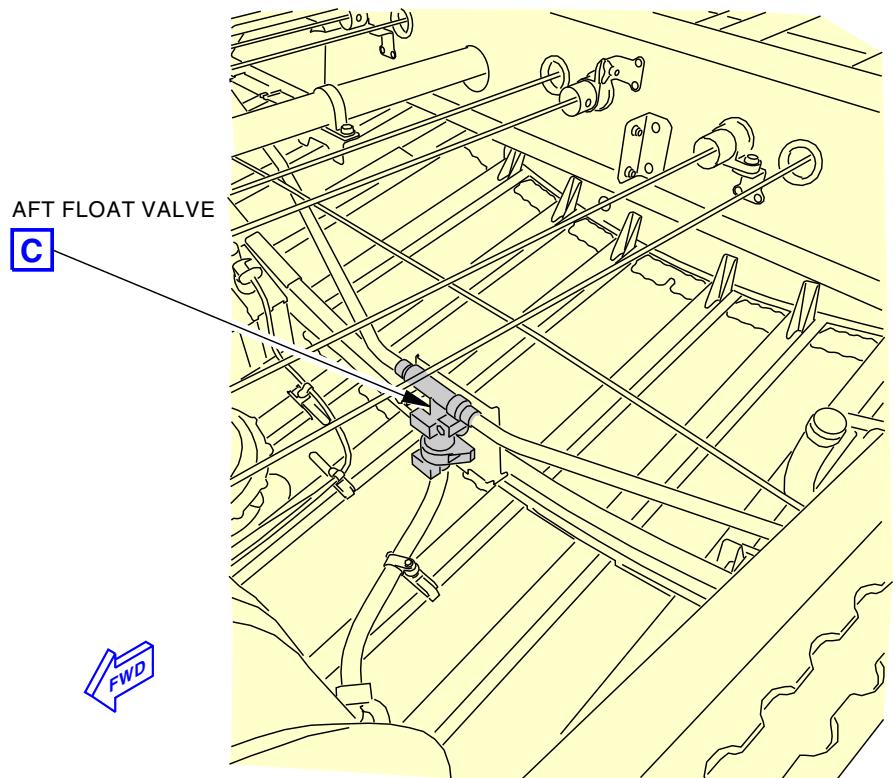
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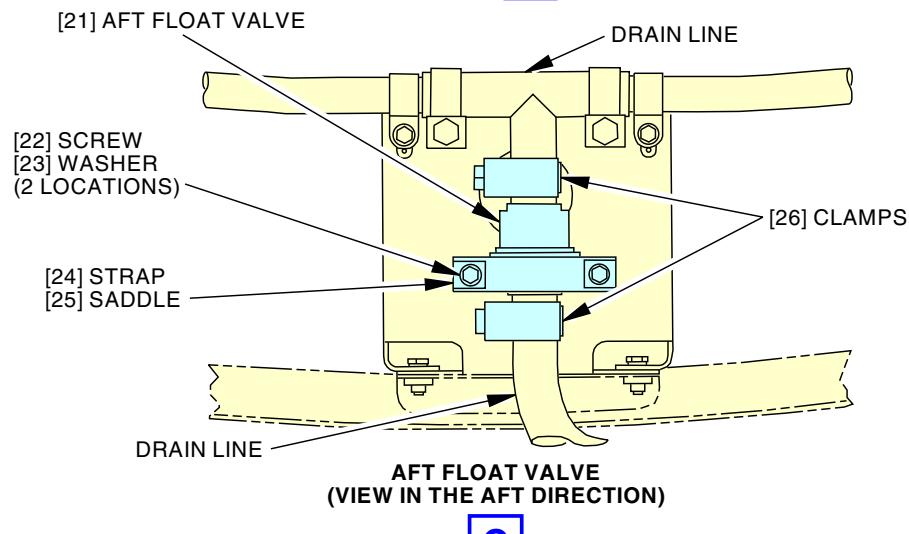


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AFT SILL DRAIN ASSEMBLY

B



AFT FLOAT VALVE
(VIEW IN THE AFT DIRECTION)

C

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Aft Float Valve Installation
Figure 402/38-31-06-990-803 (Sheet 2 of 2)

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TASK 38-31-06-400-802

5. Aft Sill Drain Float Valve Installation

(Figure 402)

A. References

Reference	Title
21-31-03-400-801	Aft Outflow Valve Assembly Installation (P/B 401)
38-11-01-400-801	Water Tank Installation (P/B 401)
53-21-00-400-801	Passenger Cabin Floor Panel - Installation (P/B 401)

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
21	Aft float valve	38-31-51-03A-200	LOM ALL

C. Location Zones

Zone	Area
191	Lower Wing-To-Body Fairing - Forward of Wing Box

D. Aft Sill Drain Float Valve Installation

SUBTASK 38-31-06-390-002

- (1) Install each end of the aft float valve [21] to the drain lines and tighten the clamps [26].
 - (a) Make sure that the aft float valve [21] is properly oriented.

SUBTASK 38-31-06-420-002

- (2) Attach the aft float valve [21] to the structure with the saddle [25], strap [24], screws [22], and washers [23].

NOTE: The lip on the aft float valve must be above the strap.

E. Aft Sill Drain Float Valve Installation Test

SUBTASK 38-31-06-860-003

- (1) Pour water into the aft sill drain.

SUBTASK 38-31-06-710-002

- (2) Make sure that the water flows to the sill drain aft float valve [21] without leakage.

F. Put the Airplane Back to Its Usual Condition

SUBTASK 38-31-06-410-002

- (1) To close the access for the aft sill drain valve assembly, do one of these steps:
 - (a) Do this task: Passenger Cabin Floor Panel - Installation, TASK 53-21-00-400-801.
 - (b) Do this task: Aft Outflow Valve Assembly Installation, TASK 21-31-03-400-801.
 - (c) Do this task: Water Tank Installation, TASK 38-11-01-400-801.

— END OF TASK —

EFFECTIVITY
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AIRCRAFT MAINTENANCE MANUAL

VACUUM WASTE SYSTEM - MAINTENANCE PRACTICES

1. General

A. This procedure has these tasks:

- (1) Standard Practices for Work with the Toilet Waste and Equipment
- (2) Waste Tube Maintenance Practice
- (3) A deactivation of the toilet.
- (4) An activation of the toilet.
- (5) A test of the vacuum pressure in the waste system.

NOTE: Use this task when you think there is leakage of the vacuum waste system.

- (6) A removal of a blockage from the toilet.

NOTE: This task is for a blockage that is upstream of the toilet flush valve.

LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464

- (7) A task to open the toilet flush valve during the maintenance of the toilet.

NOTE: This task is for a blockage of the toilet or the toilet flush valve.

LOM ALL

- (8) An inspection of the vacuum lines to isolate a blockage.
- (9) A removal of a blockage from the vacuum waste lines.

NOTE: This task is for a blockage that is between the toilet flush valve and the waste tank.

- (10) A removal of a blockage from the drain line for the waste tank.

NOTE: This task is for a blockage that is between the waste tank and the service panel for the waste tank.

- (11) A removal of a blockage from the drain line for the waste tank from outside the airplane.

NOTE: This task is for a blockage that is between the waste tank and the service panel for the waste tank.

- (12) A deactivation of the vacuum waste blower.

- (13) An activation of the vacuum waste blower.

TASK 38-32-00-910-801

2. Standard Practices for Work with the Toilet Waste and Equipment

A. General

- (1) You must obey local regulatory procedures and company policies when working with toilet waste and toilet waste equipment.
- (2) Special procedures are given for work on the equipment that follows:
 - (a) The toilet assembly
 - (b) The vacuum waste lines
 - (c) The waste tanks
 - (d) The waste drain ball valves
- (3) If you operate the vacuum waste system in hangar areas, attach venting equipment to the vacuum system exhaust to remove the exhaust from personnel and the hangar areas.

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B. References

Reference	Title
12-17-01-610-801	Waste Tank Servicing (P/B 301)

C. Tools/Equipment

Reference	Description
STD-419	Gloves - Rubber, Elbow Length
STD-1136	Facepiece (Mask) - Particulate Filtering, Disposable (NIOSH N95 approved)
STD-1137	Glasses - Safety
STD-1138	Tubing - Flexible, 1.5 Inch Outside Diameter

D. Consumable Materials

Reference	Description	Specification
G02315	Clothing - Disposable Gown, Gloves For Sewage Handling	

E. Location Zones

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

F. Standard Practices for Work with the Toilet Waste and Equipment

SUBTASK 38-32-00-910-002

- (1) When servicing or maintaining the toilet system and its components, make sure that you wear the applicable personal protection equipment such as the following:
 - (a) elbow length rubber gloves, STD-419
 - (b) filtering facepiece, STD-1136
 - (c) safety glasses, STD-1137
 - (d) Disposable clothing, G02315.

SUBTASK 38-32-00-910-003

- (2) You must thoroughly disinfect anything you come in contact with when working with toilet waste.

SUBTASK 38-32-00-910-004



WARNING

FOR SANITARY REASONS, ALWAYS WEAR RUBBER GLOVES WHEN WORKING ON THE TOILET SYSTEM OR WHEN HANDLING PARTS WHICH HAVE BEEN IN CONTACT WITH WASTE MATERIAL. WASH HANDS THOROUGHLY WITH SOAP AND WATER AFTER COMPLETION OF THE PROCEDURE.

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AIRCRAFT MAINTENANCE MANUAL

(WARNING PRECEDES)



CAUTION

USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (3) You must thoroughly disinfect yourself and your clothing before working on other aircraft system components.

NOTE: Never service the airplane potable water system, or maintain potable water system components after servicing or maintaining the toilet waste system and its components without thoroughly disinfecting yourself.

SUBTASK 38-32-00-910-005



WARNING

ALL TOILET SYSTEM COMPONENTS MUST BE CLEAN OF WASTE AND DISINFECTED BEFORE USUAL HANDLING AND SHIPPING. OBEY THIS INSTRUCTION TO PREVENT THE ILLNESS TO PERSONNEL OR OTHERS.

- (4) Thoroughly clean and disinfect any toilet waste system components removed from the airplane prior to normal handling and shipping operations.

SUBTASK 38-32-00-910-006

- (5) Thoroughly disinfect the following components:
- The toilet bowl
 - The flush valve
 - Any other contaminated components.

SUBTASK 38-32-00-910-007



WARNING

MAKE SURE THAT YOU OBEY THE MANUFACTURER'S INSTRUCTIONS WHEN YOU USE THE CHEMICAL PRECHARGE. THE CHEMICAL PRECHARGE CONTAINS CORROSIVE, AND POISONOUS MATERIALS. OBEY THESE INSTRUCTIONS TO PREVENT INJURIES TO PERSONNEL, AND DAMAGE TO EQUIPMENT.



CAUTION

DO NOT ADD THE CHEMICAL PRECHARGE TO THE TANKS IF THE AIRPLANE WILL BE KEPT IN AN AREA WHERE IT CAN FREEZE. THE CHEMICAL PRECHARGE CAN CAUSE DAMAGE TO THE WASTE SYSTEM IF IT FREEZES.

- (6) Add approximately 1 qt (1 l) of chemical precharge to the toilet bowl before you remove the waste material from the bowl.

NOTE: Use a chlorine solution to clean the items you wear as an alternative to chemical precharge.

SUBTASK 38-32-00-160-003

- (7) Do these steps to remove the contents of the toilet bowl, if a waste system is serviceable:

- Install a length of 1.5 inch outside diameter flexible tubing, STD-1138, from a serviceable toilet to the blocked toilet.
- Flush the serviceable toilet to drain the toilet bowl of the blocked toilet.
- Make sure the toilet bowl is empty.
- If the toilet bowl is not empty, flush the serviceable toilet again.

EFFECTIVITY
LOM ALL

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- (e) Remove the 1.5 in. (3.8 cm) flexible tubing.

SUBTASK 38-32-00-160-004

- (8) If no waste system is serviceable, manually remove the contents of the toilet bowl.

SUBTASK 38-32-00-910-008

- (9) Do the steps that follow before you remove these parts:

- (a) The waste tank
- (b) The waste tank components
- (c) The waste drain ball valve
- (d) The drain lines downstream from the waste tank
- (e) The waste drain valve assembly

- 1) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.
- 2) After the waste tank is serviced, drain the chemical precharge.

————— END OF TASK ————

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-464

TASK 38-32-00-040-801

3. Toilet Deactivation

(Figure 201)

A. General

- (1) This task is for the deactivation of a toilet while the remaining toilets in the system are serviceable.

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Procedure

SUBTASK 38-32-00-010-017

- (1) Get access to the lavatory.

SUBTASK 38-32-00-010-018

- (2) Open the cabinet under the sink to get access to the shutoff valve for the lavatory water supply.

NOTE: The shutoff valve is under the sink in the lavatory.

SUBTASK 38-32-00-040-002

- (3) Set the shutoff valve for the lavatory water supply to the FAUCET ONLY or OFF position.

SUBTASK 38-32-00-410-015

- (4) Close the cabinet under the sink.

SUBTASK 38-32-00-040-003

- (5) Pull the handle for the manual shutoff valve.

NOTE: The handle is at the bottom of the toilet shroud and above the kickstrip.

LOM 404, 416, 426-431, 445, 461-463

NOTE: The handle for the manual shutoff valve is spring loaded.

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-464

EFFECTIVITY
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LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-464 (Continued)

SUBTASK 38-32-00-040-004

- (6) Identify the applicable lavatory that is not serviceable.

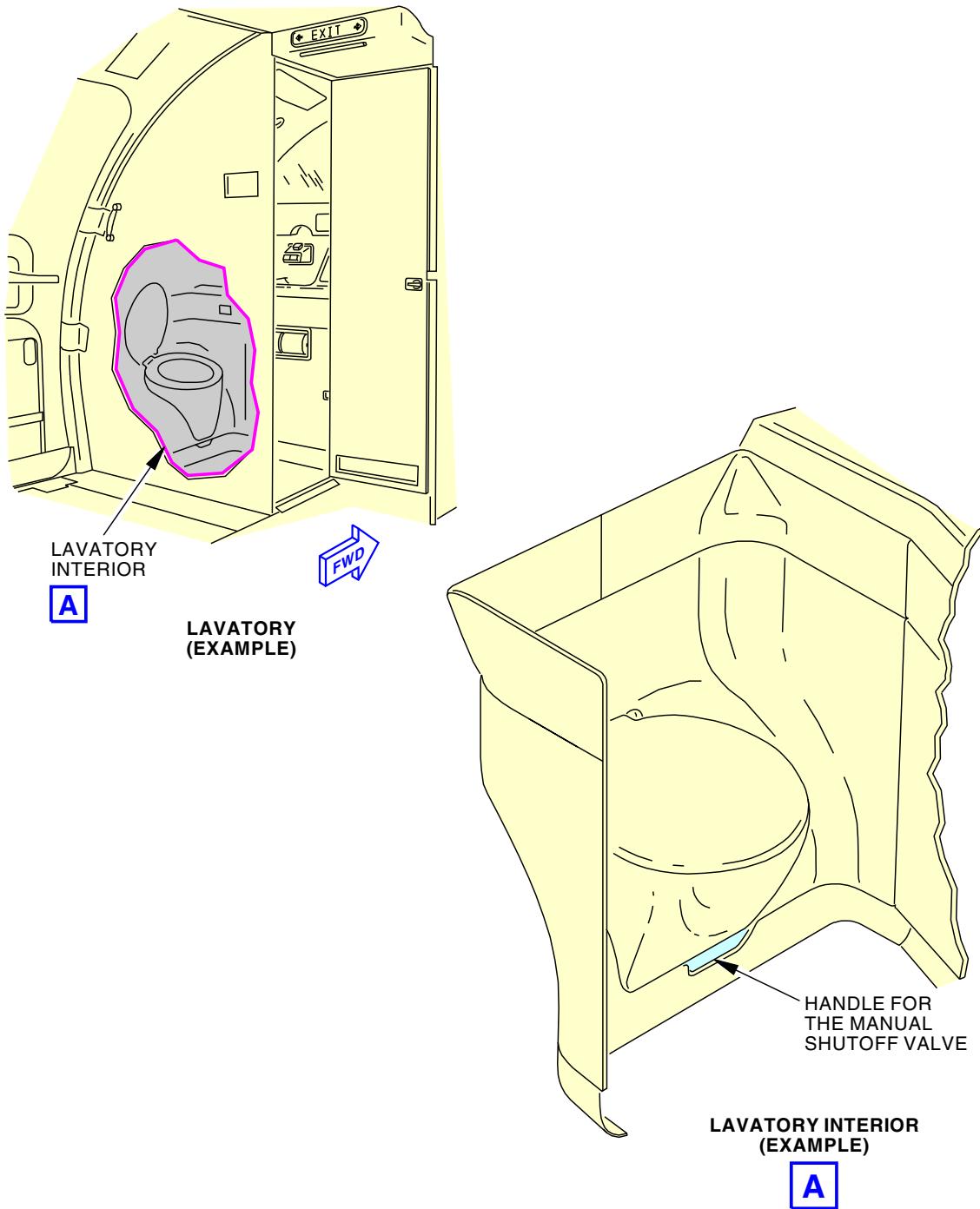
———— END OF TASK ————

— EFFECTIVITY —
LOM ALL

38-32-00

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D633A101-LOM



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Toilet Deactivation
Figure 201/38-32-00-990-819

EFFECTIVITY
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
422-434, 437-447, 450-464

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LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-464 (Continued)

TASK 38-32-00-420-801

4. Toilet Activation

A. References

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Procedure

SUBTASK 38-32-00-010-019

- (1) Get access to the lavatory.

LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464

SUBTASK 38-32-00-040-005

- (2) Push on the handle for the manual shutoff valve.

NOTE: The handle is at the bottom of the toilet shroud and above the kickstrip.

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-464

SUBTASK 38-32-00-860-030

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

SUBTASK 38-32-00-010-020

- (4) Open the cabinet under the sink to get access to the shutoff valve for the lavatory water supply.

NOTE: The shutoff valve is under the sink in the lavatory.

SUBTASK 38-32-00-040-006

- (5) Set the shutoff valve for the lavatory water supply to the ON position.

SUBTASK 38-32-00-410-016

- (6) Close the cabinet under the sink.

SUBTASK 38-32-00-710-014

- (7) Do these steps to make sure the toilet operates correctly:

- (a) Put approximately 1 gallon (4 liters) of water into the toilet bowl.
- (b) Operate the flush switch.
- (c) Make sure the toilet flushes correctly.

SUBTASK 38-32-00-440-002

- (8) Remove the identifier for the lavatory that was not serviceable.

———— END OF TASK ————

EFFECTIVITY
LOM ALL

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LOM 465-999

TASK 38-32-00-040-802

5. Toilet Deactivation

(Figure 202)

A. General

- (1) This task is for the deactivation of a toilet while the remaining toilets in the system are serviceable.

B. References

Reference	Title
38-32-01-000-843-003	Toilet Shroud Removal (P/B 401)
38-32-01-400-843-003	Toilet Shroud Installation (P/B 401)

C. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage

D. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

E. Prepare for the Toilet Deactivation

SUBTASK 38-32-00-010-044

- (1) Get access to the lavatory for the toilet removal.

SUBTASK 38-32-00-010-048

- (2) To get access to the P91 panel, open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 38-32-00-860-070



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.

EFFECTIVITY
LOM ALL

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LOM 465-999 (Continued)

(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) Open this circuit breaker and install safety tag:

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT

SUBTASK 38-32-00-860-071

- (4) Set the water shutoff valve for the lavatory to the FAUCET ONLY or OFF position.

SUBTASK 38-32-00-910-024

- (5) Do this task: Standard Practices for Work with the Toilet Waste and Equipment, TASK 38-32-00-910-801.

SUBTASK 38-32-00-860-072

- (6) To remove the toilet shroud, do this task: Toilet Shroud Removal, TASK 38-32-01-000-843-003.

F. Toilet Deactivation

SUBTASK 38-32-00-020-009

- (1) Disconnect the electrical connector.

SUBTASK 38-32-00-860-073

- (2) Push the manual override lever down to close the toilet flush valve.

NOTE: The override lever is on the flush valve at the back of the toilet.

SUBTASK 38-32-00-930-002

- (3) Identify the applicable lavatory that is not serviceable.

G. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-00-410-030

- (1) To install the toilet shroud, do this task: Toilet Shroud Installation, TASK 38-32-01-400-843-003.

SUBTASK 38-32-00-860-074



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.

EFFECTIVITY
LOM ALL

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LOM 465-999 (Continued)

(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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT

SUBTASK 38-32-00-410-033

- (3) Close this access panel:

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

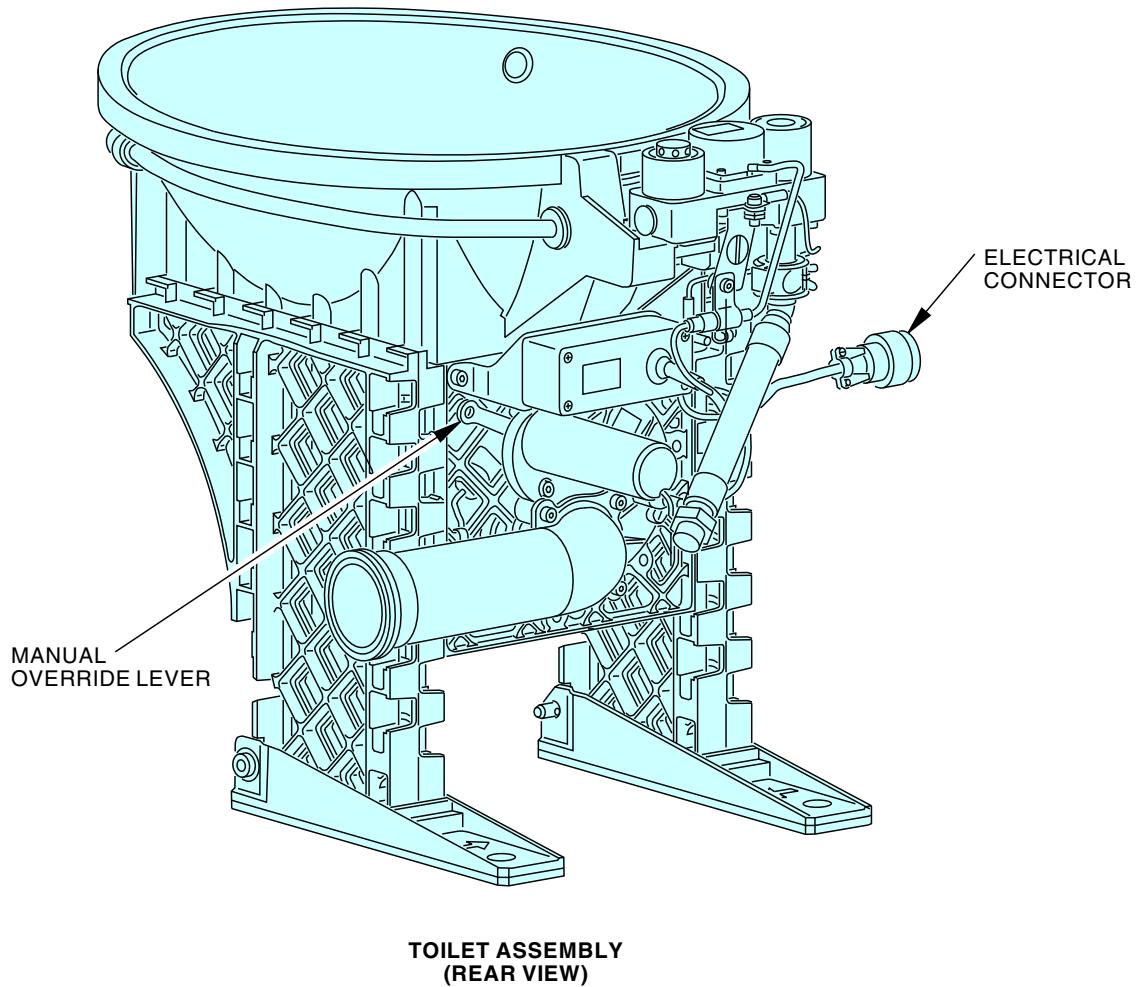
———— END OF TASK ————

EFFECTIVITY
LOM ALL

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**Toilet Deactivation
Figure 202/38-32-00-990-826**

EFFECTIVITY
LOM 465-999

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LOM 465-999 (Continued)

TASK 38-32-00-440-801

6. Toilet Activation

(Figure 202)

A. References

Reference	Title
38-32-01-000-843-003	Toilet Shroud Removal (P/B 401)
38-32-01-400-843-003	Toilet Shroud Installation (P/B 401)

B. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage

C. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

D. Prepare for the Toilet Activation

SUBTASK 38-32-00-010-045

- (1) Get access to the lavatory for the toilet removal.

SUBTASK 38-32-00-010-049

- (2) To get access to the P91 panel, open this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-32-00-860-075



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.

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

Power Distribution Panel Number 1, P91

Row	Col	Number	Name
C	11	C01388	VACUUM WASTE CONT

SUBTASK 38-32-00-860-076

- (4) Set the water shutoff valve for the lavatory to the SUPPLY ON position.

EFFECTIVITY
LOM ALL

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LOM 465-999 (Continued)

SUBTASK 38-32-00-910-025

- (5) Do this task: Standard Practices for Work with the Toilet Waste and Equipment, TASK 38-32-00-910-801.

SUBTASK 38-32-00-010-046

- (6) To remove the toilet shroud, do this task: Toilet Shroud Removal, TASK 38-32-01-000-843-003.

E. Toilet Activation

SUBTASK 38-32-00-860-077

- (1) Push the manual override lever up to open the toilet flush valve.

NOTE: The override lever is on the flush valve at the back of the toilet.

SUBTASK 38-32-00-420-010

- (2) Connect the electrical connector.

SUBTASK 38-32-00-860-078



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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT

SUBTASK 38-32-00-410-034

- (4) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-32-00-710-017

- (5) Do these steps to make sure that the toilet operates correctly:

- Operate the flush switch several times.
- Make sure that the toilet flushes correctly.

SUBTASK 38-32-00-930-003

- (6) Remove the "not serviceable" identification from the lavatory.

F. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-00-410-031

- (1) To install the toilet shroud, do this task: Toilet Shroud Installation, TASK 38-32-01-400-843-003.

EFFECTIVITY
LOM ALL

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LOM ALL

— END OF TASK —

TASK 38-32-00-780-801

7. Waste System - Vacuum Pressure Test

(Figure 203)

A. General

- (1) This task uses the vacuum toilet tester to examine the vacuum during the operation of the toilet flush system.
- (2) The Vacuum Toilet Tester is referred to as the Tester in this procedure.

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-1945	Tester - Toilet Vacuum
	Part #: A38006-1 Supplier: 81205
	Part #: A38006-19 Supplier: 81205

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Procedure

SUBTASK 38-32-00-910-012

- (1) Do this task: Standard Practices for Work with the Toilet Waste and Equipment, TASK 38-32-00-910-801.

SUBTASK 38-32-00-860-031

- (2) Put the tester, SPL-1945 in its position as follows:
 - (a) Make sure the valve on the tester, SPL-1945 is in the closed position.
 - (b) Put the end of the tester, SPL-1945 with the flexible seal into the toilet bowl on the exit hole.
 - (c) Push and then hold the tester tightly against the exit hole.

SUBTASK 38-32-00-780-007

- (3) Do these steps to do a test of the vacuum at the toilet.
 - (a) Push the flush switch for the toilet.
 - (b) Make sure the water stays in the toilet bowl during the toilet flush operation.
 - (c) Write down the highest indication (inches of mercury) you see on the vacuum gage during the toilet flush operation.
 - (d) Do the steps above two more times.

SUBTASK 38-32-00-860-032

- (4) Move the valve to the open position and then remove the tester, SPL-1945 from the toilet.





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SUBTASK 38-32-00-220-001

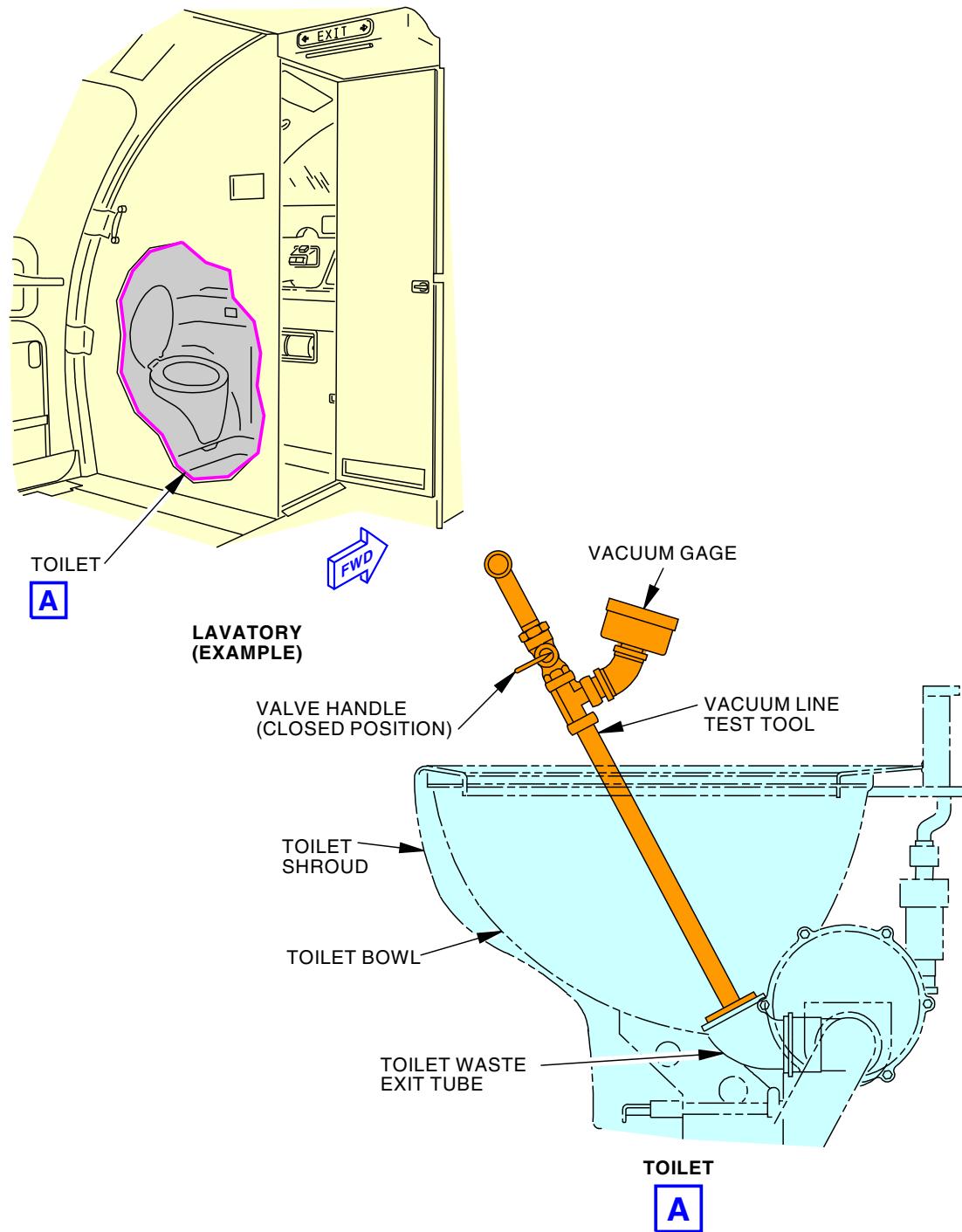
- (5) Make sure the average of the indications on the vacuum gage is from 5 to 10 inches of mercury.

NOTE: An average of less than 5 inches of mercury shows a blockage or leakage of the vacuum waste system. The blockage or leakage is between the toilet and the waste tank. An average of less than 5 inches of mercury for all of the vacuum waste system shows a problem with the vacuum blower.

———— END OF TASK ————

———— EFFECTIVITY ————
LOM ALL

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Vacuum Line Test
Figure 203/38-32-00-990-820

 EFFECTIVITY
 LOM ALL

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TASK 38-32-00-160-801

8. Toilet Blockage Removal

(Figure 204)

A. General

- (1) This task is for a blockage that is upstream of the toilet flush valve.

B. References

Reference	Title
24-22-00-860-811	Supply Electrical Power (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-1943	Remover - Blockage, Vacuum Toilet Part #: A38003-30 Supplier: 81205 Opt Part #: A38003-20 Supplier: 81205

D. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage

E. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

F. Toilet Blockage Removal

SUBTASK 38-32-00-910-009

- (1) Do this task: Standard Practices for Work with the Toilet Waste and Equipment, TASK 38-32-00-910-801.

SUBTASK 38-32-00-860-016

- (2) For the toilet that has a blockage, do these steps:
(a) To get access to the P91 panel, open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door



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.

EFFECTIVITY
LOM ALL

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(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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT
F	2	C01389	VACUUM WASTE BLOWER

SUBTASK 38-32-00-480-006

- (3) Carefully put the blockage vacuum toilet blockage remover, SPL-1943, into the toilet bowl.

SUBTASK 38-32-00-160-005



CAUTION

DO NOT PUSH THE BLOCKAGE REMOVER TOOL INTO THE TOILET BOWL WITH TOO MUCH FORCE. THE END OF THE BLOCKAGE REMOVER TOOL IS SHARP. IT CAN CAUSE DAMAGE TO THE TOILET, OR THE FLUSH VALVE.

- (4) Move the blockage remover into the toilet bowl until it touches the blockage or until it engages in the toilet.

SUBTASK 38-32-00-160-006

- (5) When the blockage remover touches the blockage, turn its handle clockwise to engage the blockage.

SUBTASK 38-32-00-160-007

- (6) Pull the blockage remover carefully out of the toilet to pull the blockage out of the toilet.

SUBTASK 38-32-00-860-017

- (7) After the blockage is removed, do these steps:



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.

EFFECTIVITY
LOM ALL

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(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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT
F	2	C01389	VACUUM WASTE BLOWER

- (b) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-32-00-860-018

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

SUBTASK 38-32-00-710-007

- (9) Put approximately 1 gal (4 l) of water in the toilet bowl.

SUBTASK 38-32-00-710-008

- (10) Push the flush switch for the toilet.

SUBTASK 38-32-00-710-009

- (11) Make sure that the toilet operates correctly.

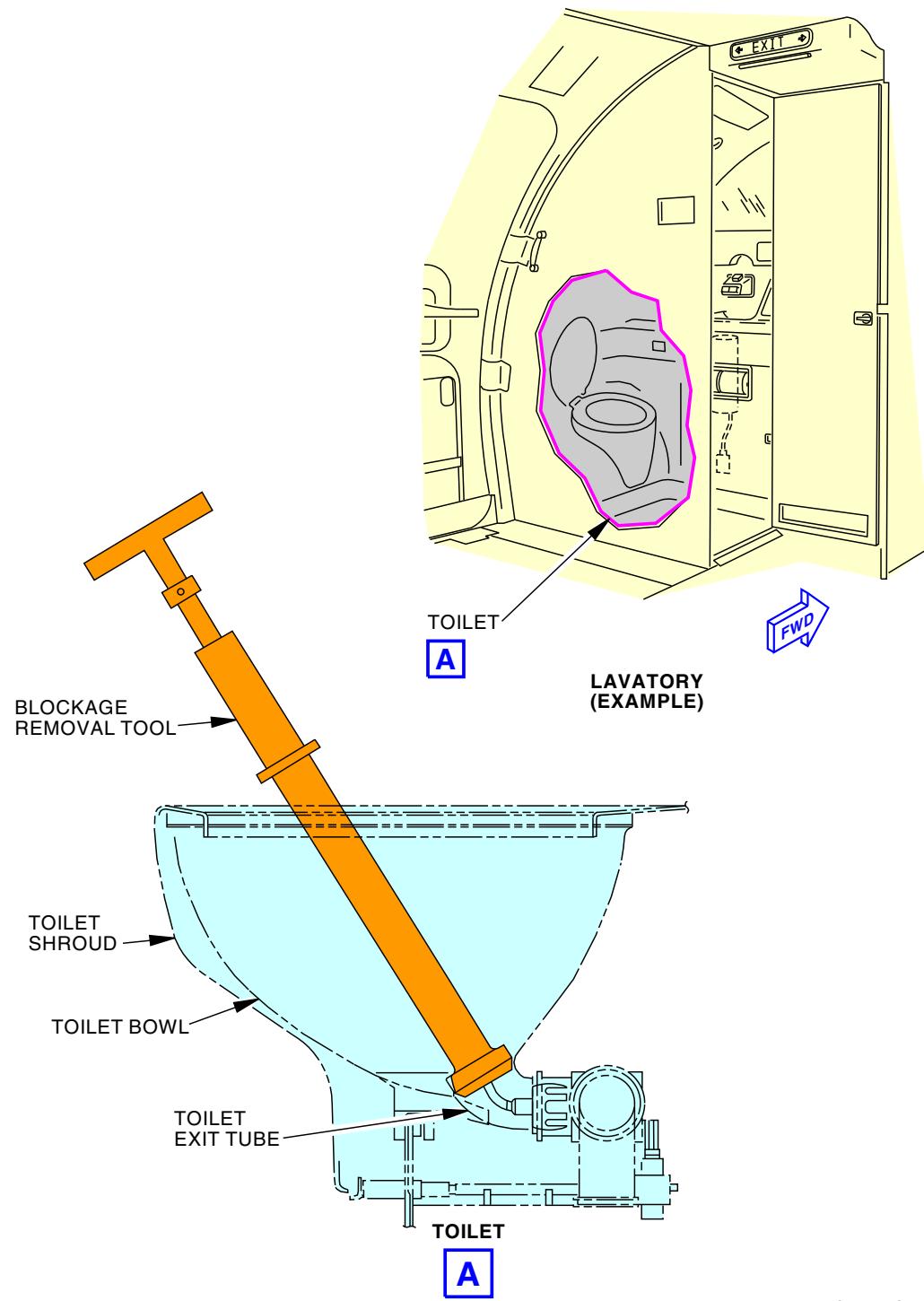
———— END OF TASK ————

EFFECTIVITY
LOM ALL

38-32-00



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Toilet Blockage Removal
Figure 204/38-32-00-990-816

EFFECTIVITY
LOM ALL

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LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464

TASK 38-32-00-980-801

9. Toilet Flush Valve - Open for Maintenance

(Figure 205)

A. General

- (1) This task uses the maintenance switch on top on the flush control assembly to operate the toilet flush system.

B. References

Reference	Title
38-32-01-000-801-001	Toilet Shroud Removal (P/B 401)
38-32-01-400-801-001	Toilet Shroud Installation (P/B 401)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Procedure

SUBTASK 38-32-00-020-003

- (1) Do this task: Toilet Shroud Removal, TASK 38-32-01-000-801-001.

SUBTASK 38-32-00-860-041

- (2) Push the maintenance switch on the flush control assembly to open the toilet flush valve.

SUBTASK 38-32-00-860-042

- (3) Push the maintenance switch on the flush control assembly again and then hold for approximately 2 seconds to stop the vacuum blower.

SUBTASK 38-32-00-860-043

- (4) Push the flush switch to close the toilet flush valve.

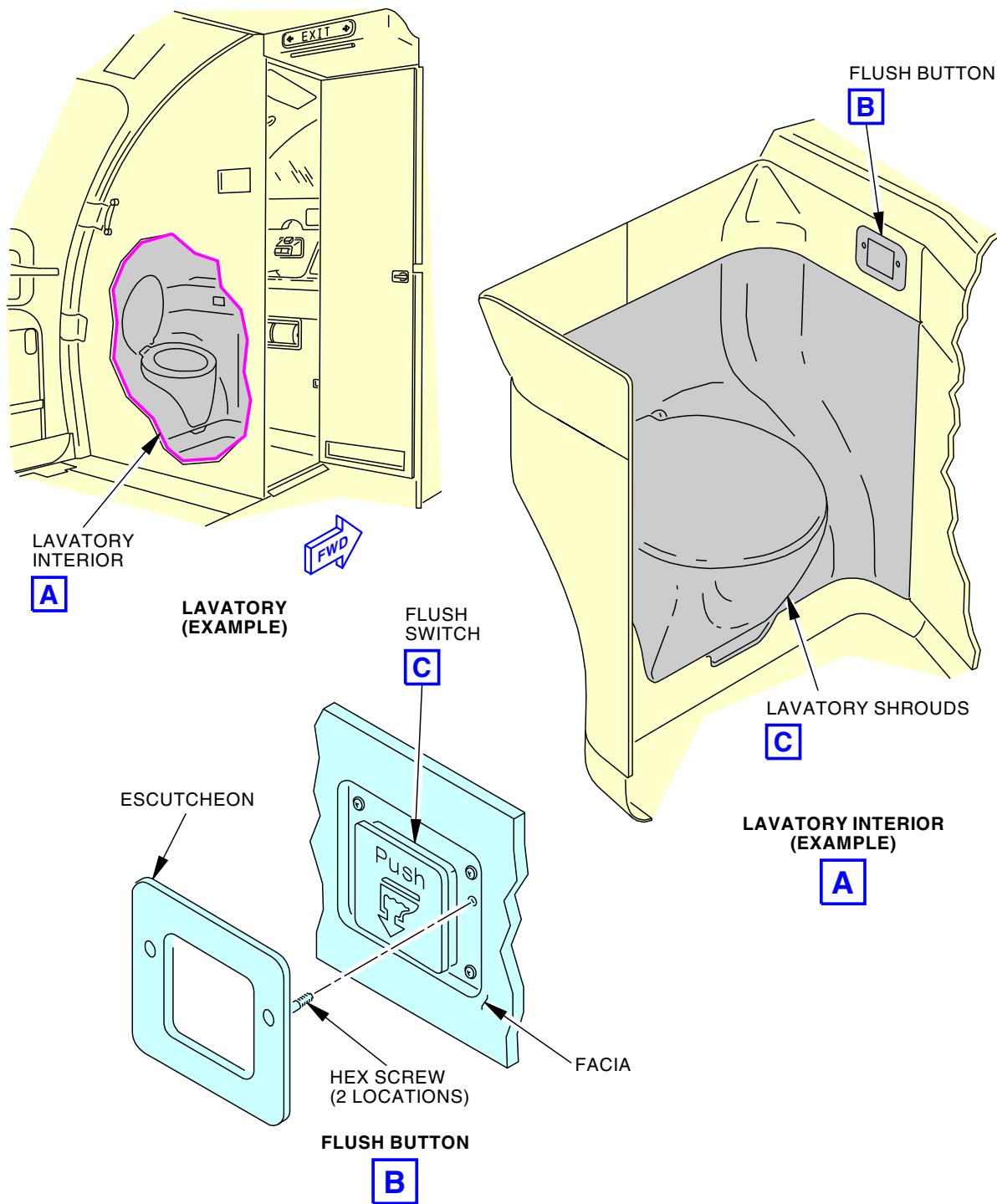
SUBTASK 38-32-00-420-004

- (5) Do this task: Toilet Shroud Installation, TASK 38-32-01-400-801-001.

———— END OF TASK ————

EFFECTIVITY
LOM ALL

38-32-00



G21188 S0006578469_V2

Maintenance Switch Operation
Figure 205/38-32-00-990-822 (Sheet 1 of 3)

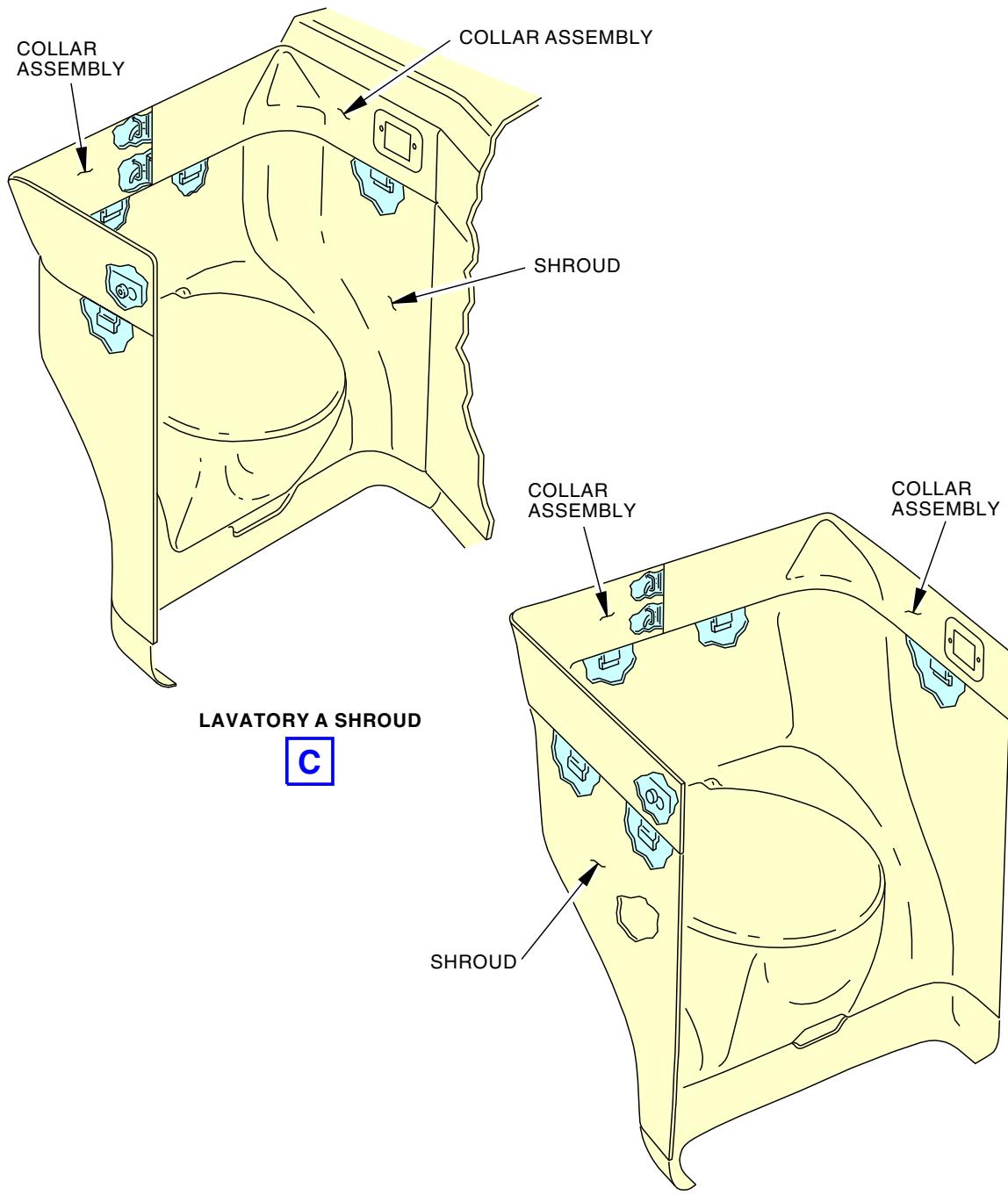
EFFECTIVITY
LOM 402, 406, 407, 411, 412, 415, 420, 422-425,
432-434, 437-444, 446, 447, 450-460, 464

38-32-00

D633A101-LOM

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G21191 S0006578472_V2

Maintenance Switch Operation
Figure 205/38-32-00-990-822 (Sheet 2 of 3)

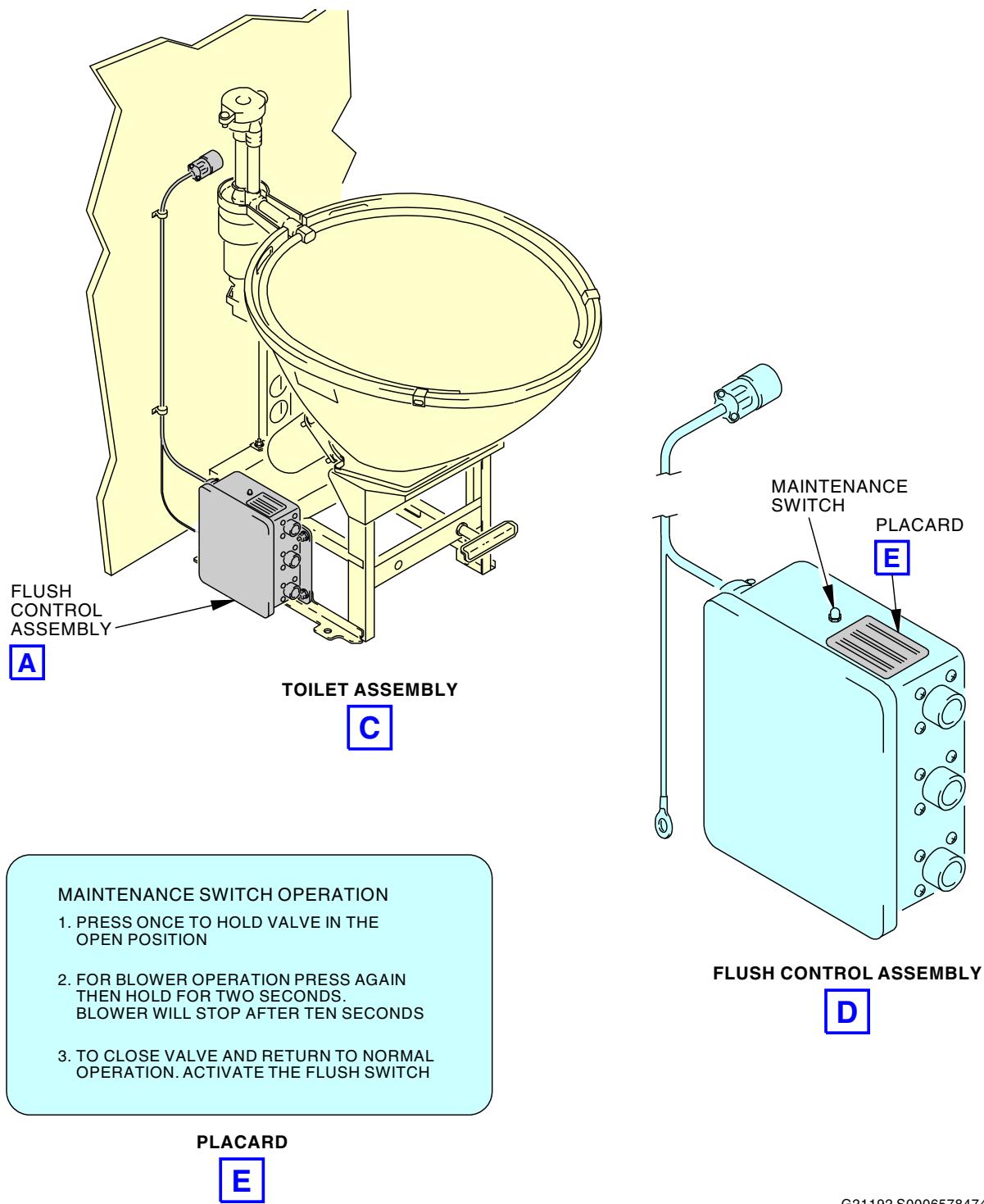
EFFECTIVITY
LOM 402, 406, 407, 411, 412, 415, 420, 422-425,
432-434, 437-444, 446, 447, 450-460, 464

38-32-00

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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G21192 S0006578474_V2

Maintenance Switch Operation
Figure 205/38-32-00-990-822 (Sheet 3 of 3)

EFFECTIVITY
LOM 402, 406, 407, 411, 412, 415, 420, 422-425,
432-434, 437-444, 446, 447, 450-460, 464

38-32-00

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details



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LOM ALL

TASK 38-32-00-280-801

10. Vacuum Line Blockage Inspection

Figure 206

A. General

- (1) This task uses the "coin tap" test to isolate blockages in the vacuum waste lines. Use a small metal object (a coin) when you do this test.

B. References

Reference	Title
SOPM 20-30-03	General Cleaning Procedures

C. Location Zones

Zone	Area
100	Lower Half of Fuselage

D. Procedure

SUBTASK 38-32-00-750-001

- (1) Do the "coin tap" test as follows:
 - (a) Hit the vacuum waste line lightly with the metal object for each inch of the tube.
 - 1) A sharp metal ring shows that the section has no waste layer or blockages.
 - 2) A dull muffled sound shows that the section has a waste layer or a blockage.

SUBTASK 38-32-00-020-004

- (2) Remove from the airplane all sections of the vacuum waste line that show a waste layer or a blockage.

SUBTASK 38-32-00-110-001

- (3) Soak the vacuum waste lines that show a waste layer or a blockage (SOPM 20-30-03)

SUBTASK 38-32-00-420-005

- (4) Install the vacuum waste lines.

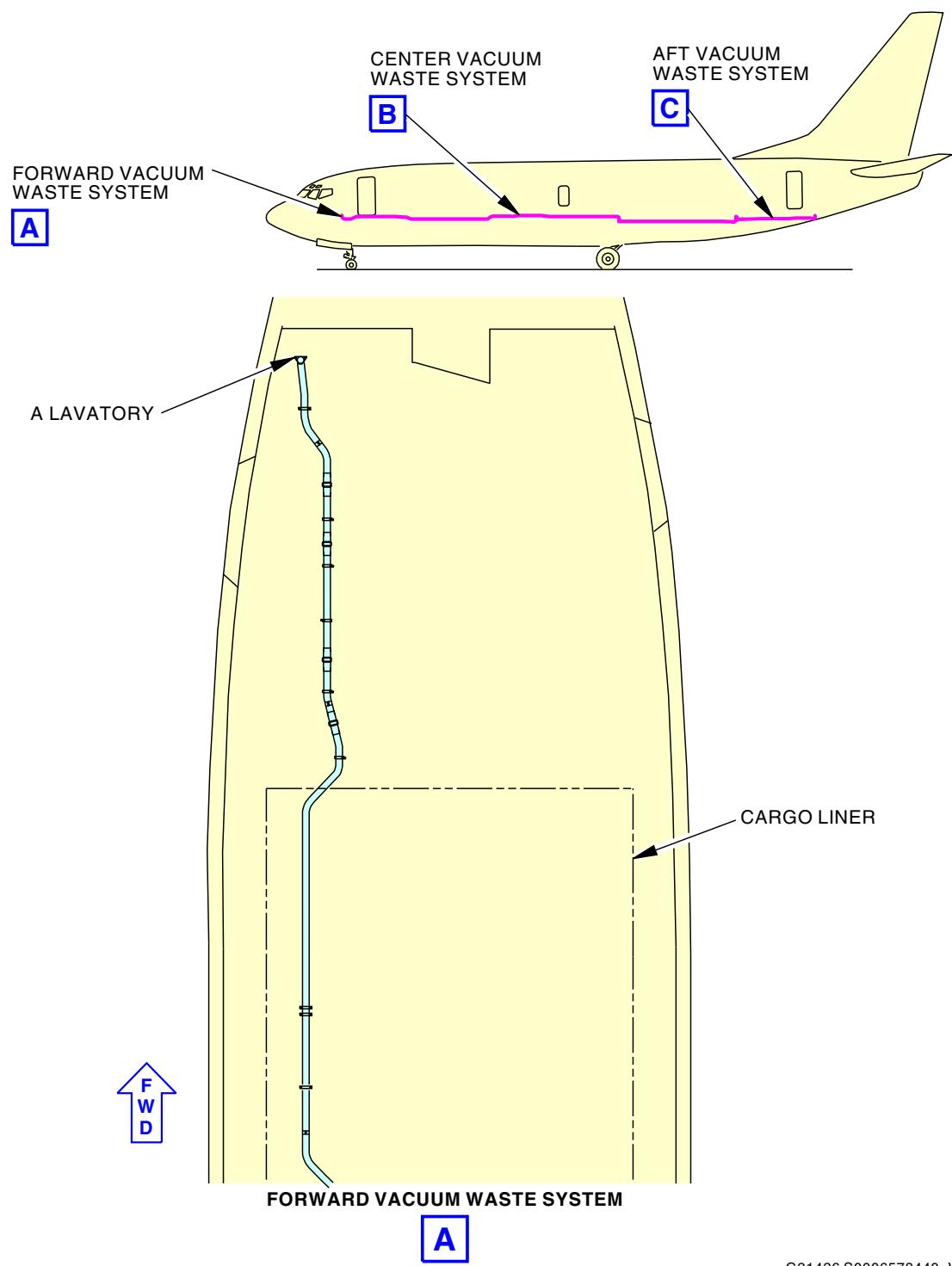
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EFFECTIVITY
LOM ALL

38-32-00



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G21426 S0006578440_V2

Vacuum Waste System - Primary Routing
Figure 206/38-32-00-990-804 (Sheet 1 of 5)

EFFECTIVITY
LOM ALL

D633A101-LOM

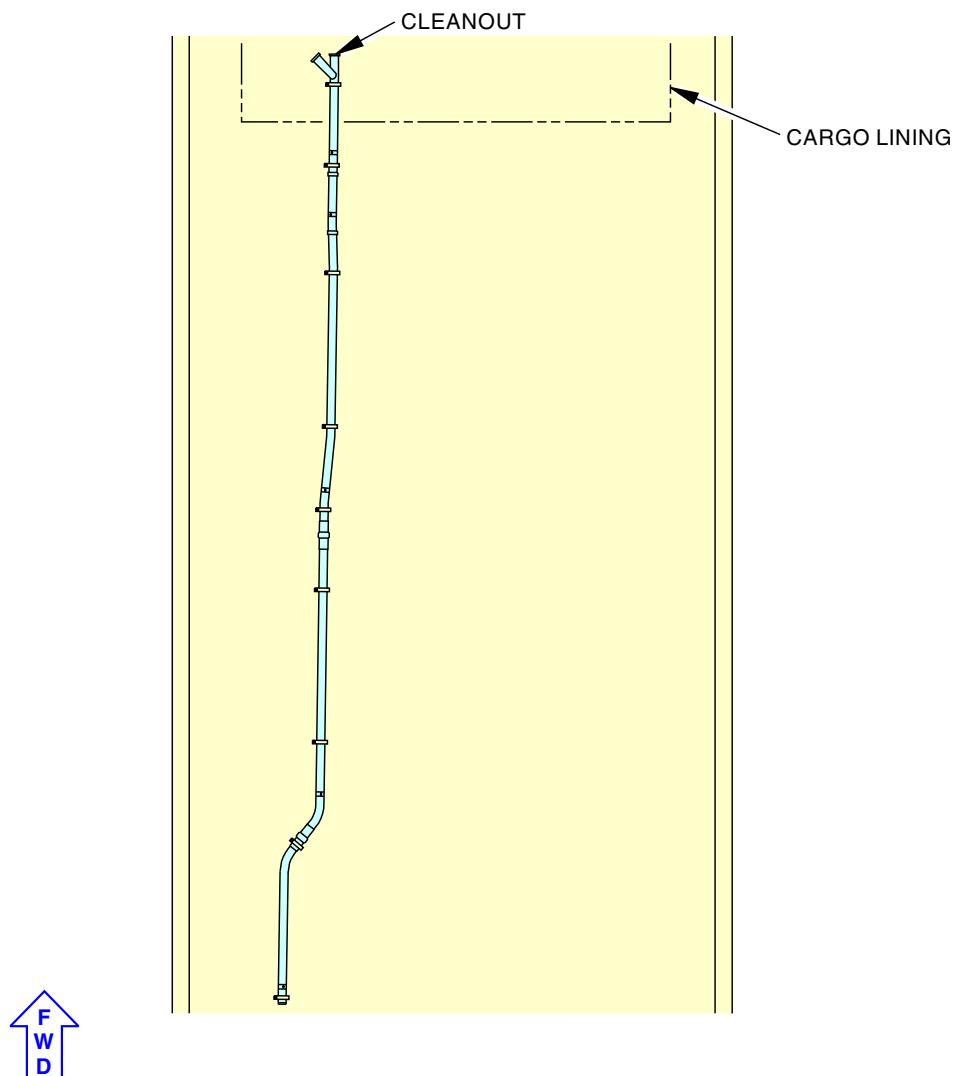
ECCN 9E991 BOEING PROPRIETARY - See title page for details

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CENTER VACUUM WASTE SYSTEM

B

G21466 S0006578443_V2

Vacuum Waste System - Primary Routing
Figure 206/38-32-00-990-804 (Sheet 2 of 5)

EFFECTIVITY
LOM ALL

38-32-00

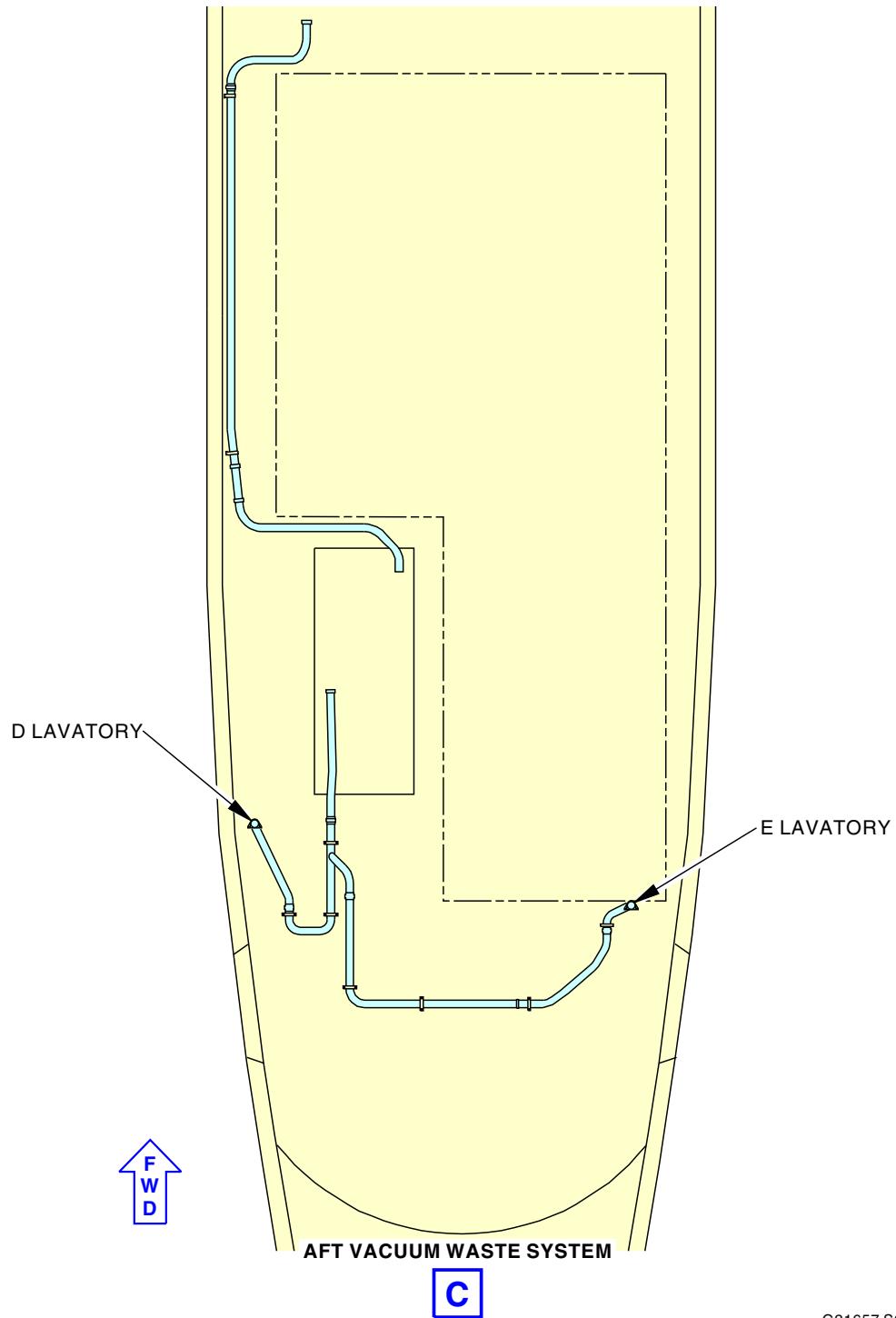
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G21657 S0006578445_V2

Vacuum Waste System - Primary Routing
Figure 206/38-32-00-990-804 (Sheet 3 of 5)

EFFECTIVITY
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
422-434, 437-444, 446, 447, 450-465

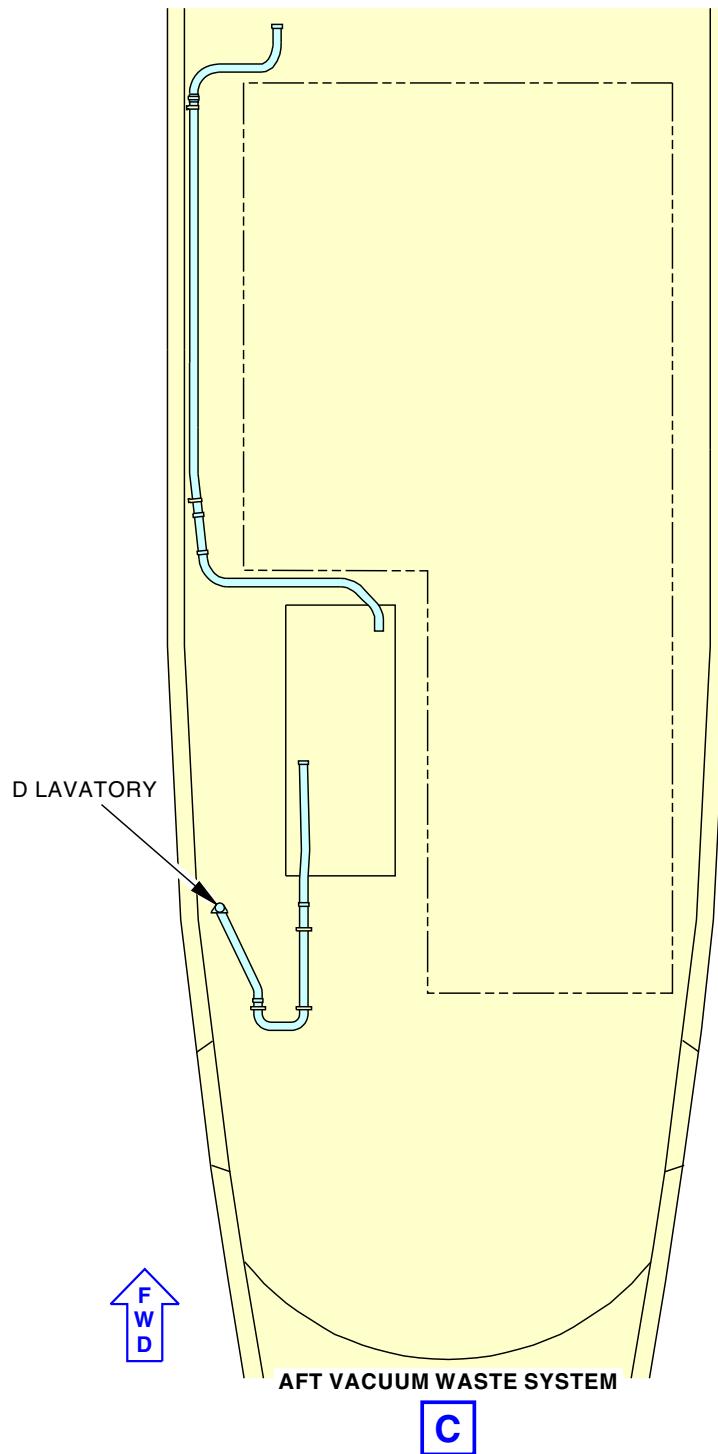
38-32-00

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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G21659 S0006578446_V2

Vacuum Waste System - Primary Routing
Figure 206/38-32-00-990-804 (Sheet 4 of 5)

EFFECTIVITY
LOM 466-999

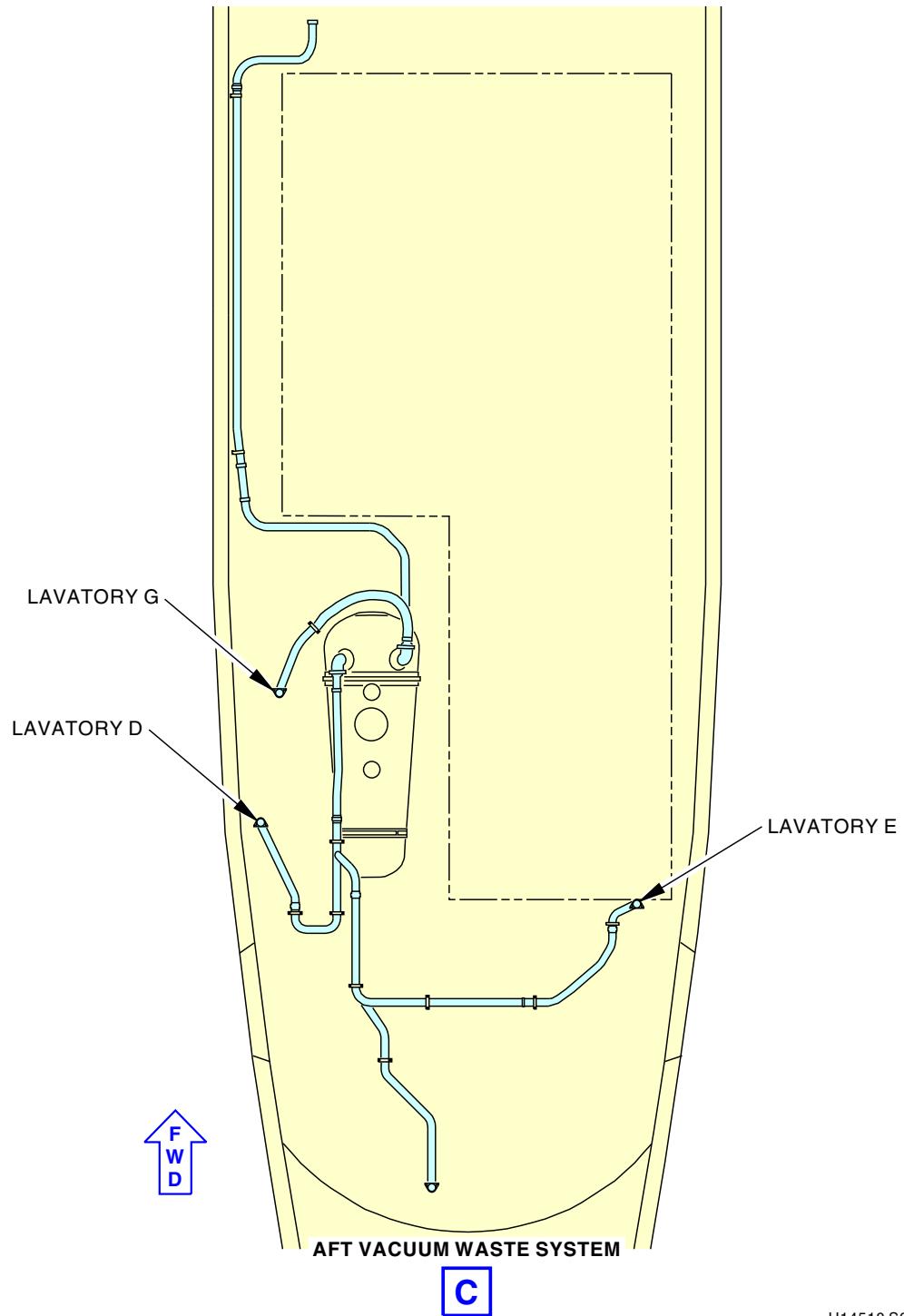
38-32-00

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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BOEING
737-600/700/800/900
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H14510 S0006578447_V2

Vacuum Waste System - Primary Routing
Figure 206/38-32-00-990-804 (Sheet 5 of 5)

EFFECTIVITY
LOM 445

38-32-00

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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TASK 38-32-00-910-802

11. Waste Tube - Maintenance Practice

(Figure 206)

A. References

Reference	Title
25-52-09-000-801	Cargo Compartment Ceiling Liner - Removal (P/B 401)
25-52-09-400-801	Cargo Compartment Ceiling Liner - Installation (P/B 401)

B. Location Zones

Zone	Area
100	Lower Half of Fuselage

C. Waste Tube - Maintenance Practice

SUBTASK 38-32-00-860-013

- (1) To access the waste tube and components, use (Figure 206).

SUBTASK 38-32-00-860-014

- (2) To remove the plug from the cleanout port, do the steps that follow:
- Do this task: Cargo Compartment Ceiling Liner - Removal, TASK 25-52-09-000-801.
 - Remove the plug from the cleanout port.

SUBTASK 38-32-00-860-015

- (3) To install the plug from the cleanout port, do the steps that follow:
- Make sure the cleanout port is clean.
 - Install the plug from the cleanout port.
 - Do this task: Cargo Compartment Ceiling Liner - Installation, TASK 25-52-09-400-801.

— END OF TASK —

TASK 38-32-00-160-802

12. Vacuum Waste Line Blockage Removal

(Figure 207)

A. General

- (1) This task is for a blockage that is between the toilet flush valve and waste tank.

NOTE: The removal of the toilet assembly is necessary to do this procedure when you do it from the upper half of the fuselage.

- (2) This procedure is also applicable to material in the lines that are sealed with a cap. The removal of the line cap and the removal of ceiling lining panels for access is necessary to do this procedure. For removal and installation procedures, do this task: Waste Tube - Maintenance Practice, TASK 38-32-00-910-802.

B. References

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
38-32-01-000-805-001	Vacuum Toilet Assembly Removal (P/B 401)
38-32-01-000-838-002	Vacuum Toilet Assembly Removal (P/B 401)
38-32-01-000-844-003	Vacuum Toilet Assembly Removal (P/B 401)
38-32-01-400-805-001	Vacuum Toilet Assembly Installation (P/B 401)

EFFECTIVITY
LOM ALL

38-32-00



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(Continued)

Reference	Title
38-32-01-400-838-002	Vacuum Toilet Assembly Installation (P/B 401)
38-32-01-400-844-003	Vacuum Toilet Assembly Installation (P/B 401)

C. Tools/Equipment

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

Reference	Description
SPL-1947	Equipment - Removal, Vacuum Lavatory System Blockage Part #: G38004-17 Supplier: 81205 Opt Part #: G38004-10 Supplier: 81205
STD-858	Tag - DO NOT OPERATE

D. Location Zones

Zone	Area
100	Lower Half of Fuselage
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage

E. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

F. Vacuum Waste Line Blockage Removal

SUBTASK 38-32-00-910-010

- (1) Do this task: Standard Practices for Work with the Toilet Waste and Equipment, TASK 38-32-00-910-801.

SUBTASK 38-32-00-010-050

- (2) To get access to the P91 panel, open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 38-32-00-860-019

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.

EFFECTIVITY
LOM ALL

38-32-00



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(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) Open these circuit breakers and install safety tags:

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT
F	2	C01389	VACUUM WASTE BLOWER

SUBTASK 38-32-00-860-020

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

SUBTASK 38-32-00-160-008

- (5) If it is necessary to remove the contents of the toilet bowl with the toilet flush valve open, do this task: Standard Practices for Work with the Toilet Waste and Equipment, TASK 38-32-00-910-801.

SUBTASK 38-32-00-010-013

- (6) To get access to the vacuum waste line for the lavatory upstream of the blockage, do this task: Vacuum Toilet Assembly Removal, TASK 38-32-01-000-838-002 or Vacuum Toilet Assembly Removal, TASK 38-32-01-000-805-001 or Vacuum Toilet Assembly Removal, TASK 38-32-01-000-844-003.

SUBTASK 38-32-00-420-002

- (7) Install the kinetic water ram vacuum lavatory system blockage removal equipment, SPL-1947, on the vacuum waste line.

NOTE: If the kinetic water ram equipment is not available, it is possible to use a plumbers snake.

SUBTASK 38-32-00-610-008

- (8) Fill the waste line with water from a toilet upstream of the blockage or through the kinetic water ram equipment.

SUBTASK 38-32-00-610-009

- (9) Do these steps while you fill the waste line.

- Monitor the air bleed line while you fill the system.
- Stop the water flow when you see water at the bleed line exit.
- Disconnect the air bleed line.
- Put a cap on the air bleed connection.
- Do these steps for all toilets upstream of the blockage.

SUBTASK 38-32-00-860-021

- (10) Make sure that the air pressure of the kinetic water ram equipment is 70 psig (483 kPa) - 80 psig (552 kPa).

NOTE: It is possible to use a shop air source to get this pressure.

EFFECTIVITY
LOM ALL

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SUBTASK 38-32-00-040-001



WARNING

ATTACH DO-NOT-OPERATE TAGS ON THE TOILET FLUSH HANDLES FOR ALL TOILETS IN THE SYSTEM. IF YOU FLUSH THE TOILETS THAT ARE UPSTREAM OF THE BLOCKAGE, INJURIES TO PERSONNEL, AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (11) Attach a DO NOT OPERATE tag, STD-858, to the toilet flush handles for all toilets upstream of the blockage.

SUBTASK 38-32-00-860-022



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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT
F	2	C01389	VACUUM WASTE BLOWER

SUBTASK 38-32-00-410-035

- (13) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-32-00-710-010

- (14) Flush a toilet in the same waste system with the blockage and then pull the handle of the kinetic water ram equipment.

NOTE: Flush the toilet and pull the handle of the kinetic water ram equipment at the same time to have the most effect on the blockage.

SUBTASK 38-32-00-710-011

- (15) Make sure that the blockage is clear.

SUBTASK 38-32-00-160-009

- (16) If the blockage is not clear, pressurize the kinetic water ram equipment and do the blockage removal procedure again until the line is clear.

SUBTASK 38-32-00-010-057

- (17) To get access to the P91 panel, open this access panel:

Number Name/Location

117A Electronic Equipment Access Door

EFFECTIVITY
LOM ALL

38-32-00



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SUBTASK 38-32-00-860-023



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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT
F	2	C01389	VACUUM WASTE BLOWER

SUBTASK 38-32-00-020-002

- (19) Remove the kinetic water ram equipment on the vacuum waste line.

SUBTASK 38-32-00-080-006

- (20) To put the system back in its usual condition, do these steps:

- Remove the cap on the air bleed connection for all toilets upstream of the blockage.
- Connect the air bleed line for all toilets upstream of the blockage.

SUBTASK 38-32-00-420-003

- (21) If you removed a toilet, do this task: Vacuum Toilet Assembly Installation, TASK 38-32-01-400-838-002 or Vacuum Toilet Assembly Installation, TASK 38-32-01-400-805-001 or Vacuum Toilet Assembly Installation, TASK 38-32-01-400-844-003.

SUBTASK 38-32-00-440-001

- (22) Remove the DO NOT OPERATE tag from the toilet flush handles for all toilets upstream of the blockage.



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.

EFFECTIVITY
LOM ALL

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(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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT
F	2	C01389	VACUUM WASTE BLOWER

SUBTASK 38-32-00-410-043

- (23) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-32-00-710-012

- (24) Flush the toilet to make sure that the toilet operates correctly.

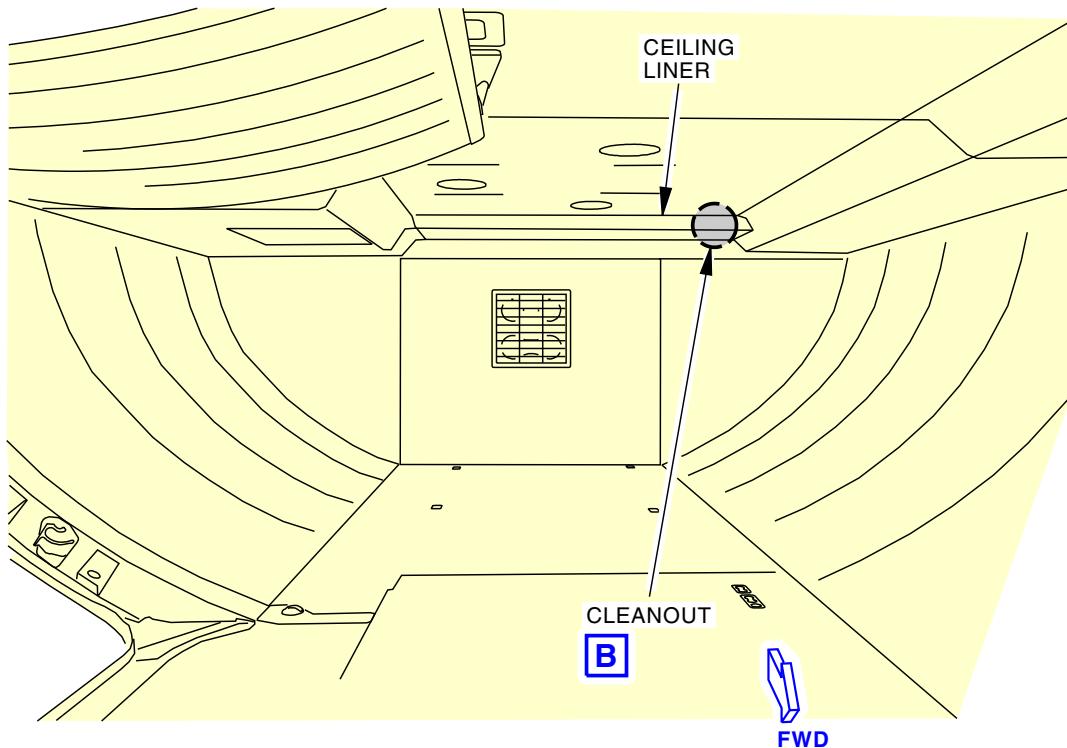
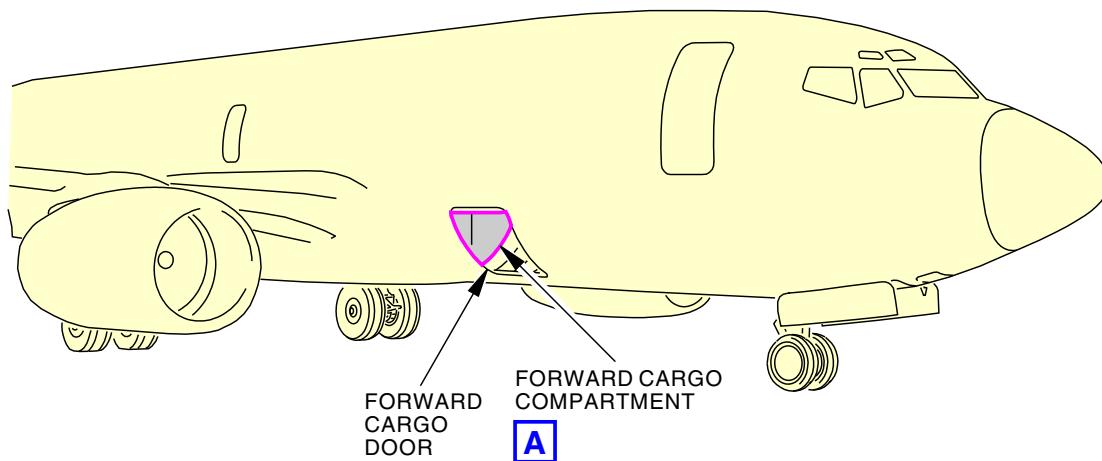
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— EFFECTIVITY —
LOM ALL

38-32-00



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FORWARD CARGO COMPARTMENT

A

G21252 S0006578453_V2

Vacuum Line Blockage Removal
Figure 207/38-32-00-990-817 (Sheet 1 of 2)

EFFECTIVITY
LOM ALL

38-32-00

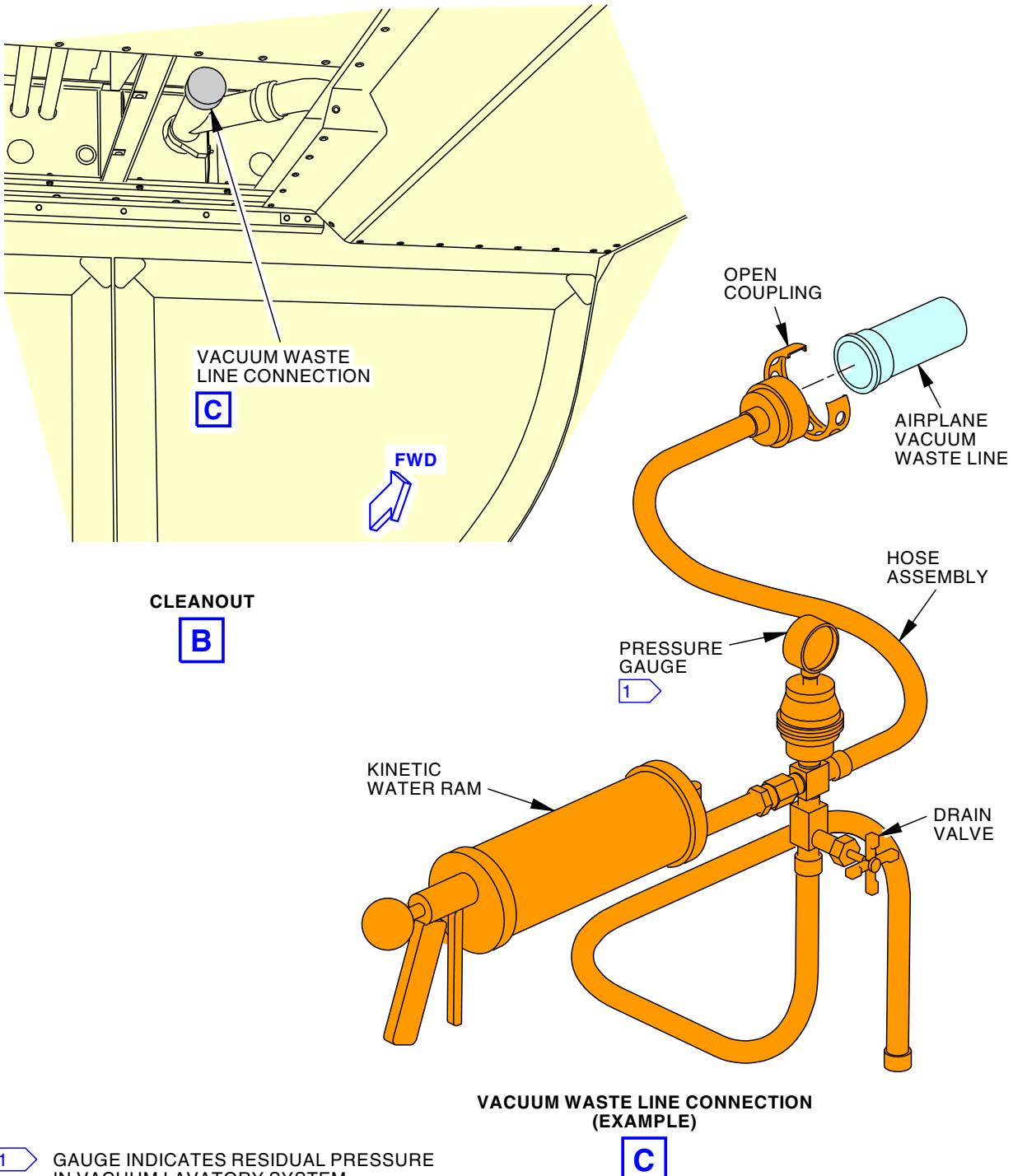
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GAUGE INDICATES RESIDUAL PRESSURE
IN VACUUM LAVATORY SYSTEM

C

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Vacuum Line Blockage Removal
Figure 207/38-32-00-990-817 (Sheet 2 of 2)

EFFECTIVITY
LOM ALL

38-32-00

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LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-431

TASK 38-32-00-160-803

13. Waste Tank Drain Line Blockage Removal

(Figure 208)

A. General

- (1) This task is for a blockage that is between the waste tank and the waste drain valve assembly.

B. References

Reference	Title
12-17-01-610-801	Waste Tank Servicing (P/B 301)
25-52-20-000-801	Waste Tank Enclosure Panel - Removal (P/B 401)
25-52-20-400-801	Waste Tank Enclosure Panel - Installation (P/B 401)
38-33-00-740-802	LCM BITE Test (P/B 501)

C. Tools/Equipment

Reference	Description
STD-1142	Equipment - Waste System Servicing

D. Location Zones

Zone	Area
143	Area Below Aft Cargo Compartment - Left
822	Aft Cargo Door

E. Access Panels

Number	Name/Location
145AL	Waste Service Door

F. Procedure

SUBTASK 38-32-00-910-011

- (1) Do this task: Standard Practices for Work with the Toilet Waste and Equipment, TASK 38-32-00-910-801.

SUBTASK 38-32-00-010-014

- (2) Get access to the aft cargo compartment.

SUBTASK 38-32-00-010-015

- (3) To remove the waste tank enclosure, do this task: Waste Tank Enclosure Panel - Removal, TASK 25-52-20-000-801.

SUBTASK 38-32-00-860-024

- (4) Set the blockage removal valve to the clean position.

SUBTASK 38-32-00-010-016

- (5) Open this access panel:

Number	Name/Location
145AL	Waste Service Door

SUBTASK 38-32-00-860-025

- (6) Make sure the waste drain ball valve and the waste drain valve assembly are in the closed position.

SUBTASK 38-32-00-860-026

- (7) Open the cap on the rinse fitting on the service panel for the waste tank.

EFFECTIVITY
LOM ALL

38-32-00



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LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-431 (Continued)

SUBTASK 38-32-00-480-007

- (8) Connect the waste system servicing equipment, STD-1142 to the rinse fitting on the service panel for the waste tank.

SUBTASK 38-32-00-610-016

- (9) Connect the waste system servicing equipment, STD-1142 to the waste drain valve on the service panel for the waste tank.

SUBTASK 38-32-00-160-010

- (10) Pressurize the rinse system to 15 PSIG (100 kPa).

SUBTASK 38-32-00-860-027

- (11) Open the waste drain ball valve.

SUBTASK 38-32-00-610-010

- (12) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.

NOTE: Do not add the chemical precharge after you do the task to service the waste tanks.
Do not disconnect the servicing equipment.

SUBTASK 38-32-00-860-028



CAUTION

USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (13) Make sure the waste tank is empty.

SUBTASK 38-32-00-610-011

- (14) If the waste tank is empty, then continue.

- (a) If the waste tank is not empty, do these steps:

- 1) Close the waste drain ball valve.
- 2) Do the steps again to pressurize the rinse system and to open the waste drain ball valve.

- (b) If the waste tank is not empty, then continue.

- 1) Close the waste drain ball valve.



CAUTION

DO NOT INCREASE THE PRESSURE TO MORE THAN 25 PSIG (170 KPA). A PRESSURE OF MORE THAN 25 PSIG (170 KPA) CAN CAUSE DAMAGE TO THE WASTE DRAIN SYSTEM.

- 2) Increase the pressure to a maximum of 25 PSIG (170 kPa).

- 3) Do the steps again to pressurize the rinse system and to open the waste drain ball valve.

- (c) If the waste tank is not empty, remove the contents of the waste system manually.

SUBTASK 38-32-00-860-029

- (15) Set the blockage removal valve to the normal position.

SUBTASK 38-32-00-610-012

- (16) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.

EFFECTIVITY
LOM ALL

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LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-431 (Continued)

SUBTASK 38-32-00-710-013

- (17) To make sure the system is operational, do this task: LCM BITE Test, TASK 38-33-00-740-802.

G. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-00-080-007

- (1) Disconnect the waste system servicing equipment, STD-1142 from the rinse fitting.

SUBTASK 38-32-00-410-012

- (2) Do this task: Waste Tank Enclosure Panel - Installation, TASK 25-52-20-400-801.

SUBTASK 38-32-00-410-013

- (3) Close the access to the aft cargo compartment.

SUBTASK 38-32-00-410-014

- (4) Close this access panel:

Number Name/Location

145AL Waste Service Door

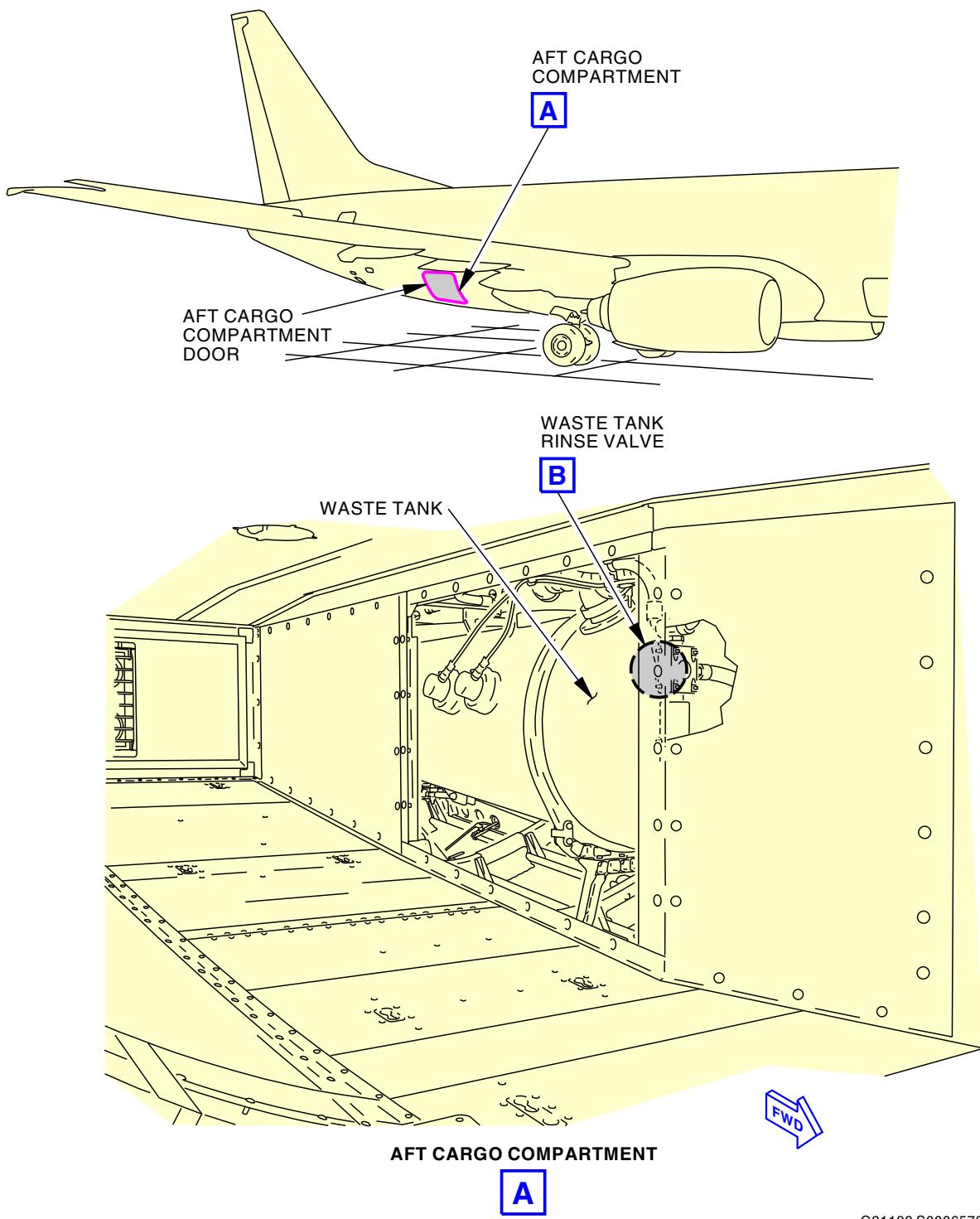
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EFFECTIVITY
LOM ALL

38-32-00



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



G21193 S0006578455_V2

Waste Line Blockage Removal
Figure 208/38-32-00-990-818 (Sheet 1 of 2)

EFFECTIVITY
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
422-431

38-32-00

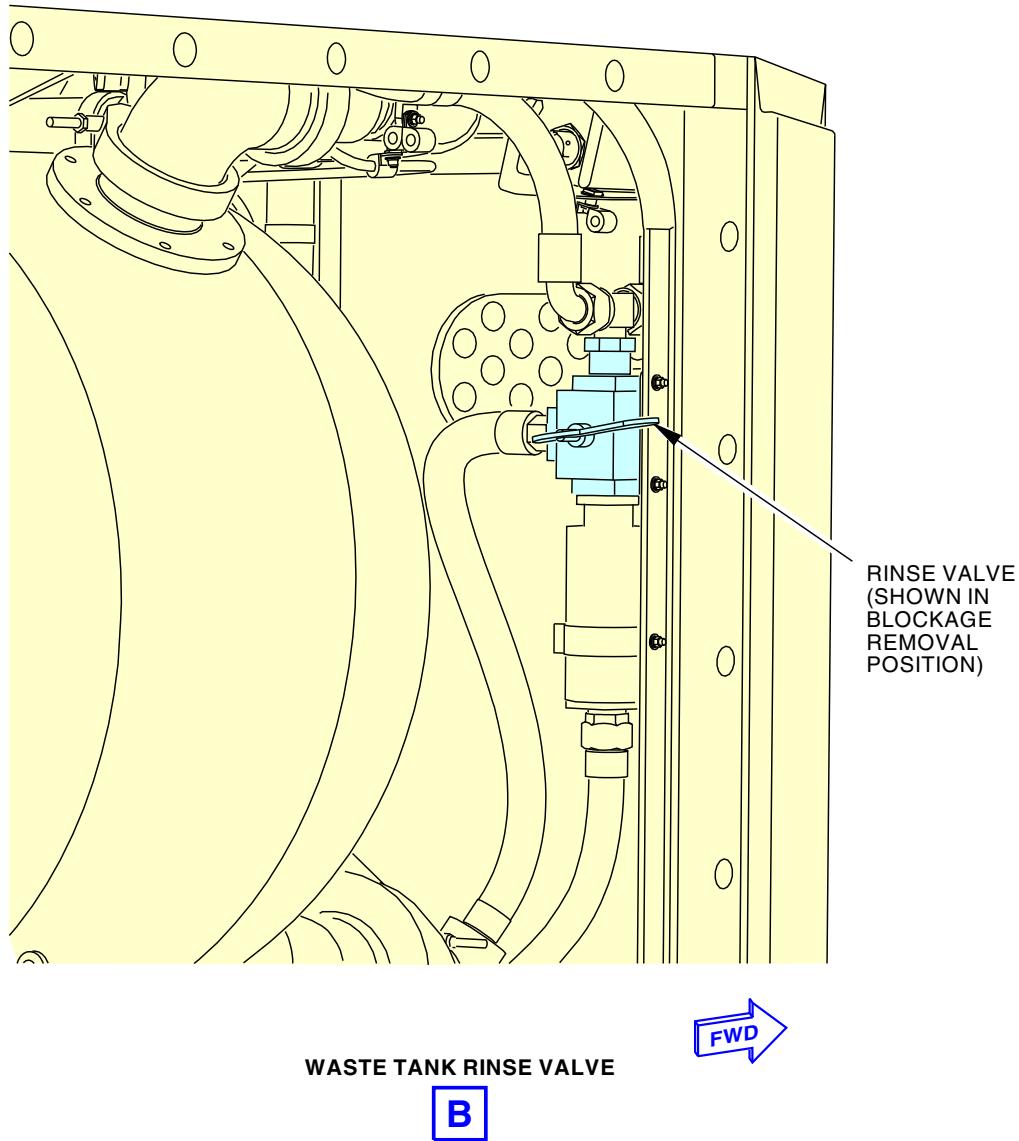
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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AIRCRAFT MAINTENANCE MANUAL



G21201 S0006578457_V2

Waste Line Blockage Removal
Figure 208/38-32-00-990-818 (Sheet 2 of 2)

EFFECTIVITY
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
422-431

38-32-00

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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LOM 432-434, 437-447, 450-999

TASK 38-32-00-160-805

14. Waste Tank Drain Line Blockage Removal

A. General

- (1) This task is for a blockage that is between the waste tank and the waste drain valve assembly.

B. References

Reference	Title
12-17-01-610-801	Waste Tank Servicing (P/B 301)
25-52-20-000-801	Waste Tank Enclosure Panel - Removal (P/B 401)
25-52-20-400-801	Waste Tank Enclosure Panel - Installation (P/B 401)
38-33-00-740-802	LCM BITE Test (P/B 501)

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-1948	Equipment - Pressurization, Waste Drain System
STD-1142	Equipment - Waste System Servicing

D. Location Zones

Zone	Area
143	Area Below Aft Cargo Compartment - Left
822	Aft Cargo Door

E. Access Panels

Number	Name/Location
145AL	Waste Service Door

F. Procedure

SUBTASK 38-32-00-910-023

- (1) Do this task: Standard Practices for Work with the Toilet Waste and Equipment, TASK 38-32-00-910-801.

SUBTASK 38-32-00-010-040

- (2) Get access to the aft cargo compartment.

SUBTASK 38-32-00-010-041

- (3) To remove the waste tank enclosure, do this task: Waste Tank Enclosure Panel - Removal, TASK 25-52-20-000-801.

SUBTASK 38-32-00-010-042

- (4) Open this access panel:

Number	Name/Location
145AL	Waste Service Door

SUBTASK 38-32-00-860-068

- (5) Make sure the waste drain ball valve and the waste drain valve assembly are in the closed position.

EFFECTIVITY
LOM ALL

38-32-00



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LOM 432-434, 437-447, 450-999 (Continued)

SUBTASK 38-32-00-020-008

- (6) Remove the cap on the waste drain elbow.

SUBTASK 38-32-00-160-019

- (7) Connect the pressurization waste drain system pressurization equipment, SPL-1948 to the waste drain elbow.

SUBTASK 38-32-00-160-020

- (8) Pressurize the waste drain elbow to 15 PSIG.

SUBTASK 38-32-00-010-043

- (9) Open the waste drain ball valve.

SUBTASK 38-32-00-610-035

- (10) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.

NOTE: Do not add the chemical precharge after you do the task to service the waste tanks.
Do not disconnect the servicing equipment.

SUBTASK 38-32-00-860-069

- (11) Make sure the waste tank is empty.

SUBTASK 38-32-00-610-036

- (12) If the waste tank is empty, add the chemical precharge.

- (a) If the waste tank is not empty, do these steps:

1) Close the waste drain ball valve.

2) Do the steps again to pressurize the waste drain elbow and to open the waste drain ball valve.

- (b) If the waste tank is not empty, then continue.

1) Close the waste drain ball valve.



CAUTION DO NOT INCREASE THE PRESSURE TO MORE THAN 20 PSIG (135 KPA). A PRESSURE OF MORE THAN 20 PSIG CAN CAUSE DAMAGE TO THE WASTE DRAIN SYSTEM.

2) Increase the pressure to a maximum of 20 PSIG.

3) Do the steps again to pressurize the waste drain elbow and to open the waste drain ball valve.

- (c) If the waste tank is not empty, remove the contents of the waste system manually.

SUBTASK 38-32-00-610-037

- (13) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.

SUBTASK 38-32-00-710-016

- (14) To make sure the system is operational, do this task: LCM BITE Test, TASK 38-33-00-740-802.

G. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-00-080-015

- (1) Disconnect the waste system servicing equipment, STD-1142 from the rinse fitting.

SUBTASK 38-32-00-410-027

- (2) Do this task: Waste Tank Enclosure Panel - Installation, TASK 25-52-20-400-801.

EFFECTIVITY
LOM ALL

38-32-00



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LOM 432-434, 437-447, 450-999 (Continued)

SUBTASK 38-32-00-410-028

- (3) Close the access to the aft cargo compartment.

SUBTASK 38-32-00-410-029

- (4) Close this access panel:

Number Name/Location

145AL Waste Service Door

———— END OF TASK ————

EFFECTIVITY
LOM ALL

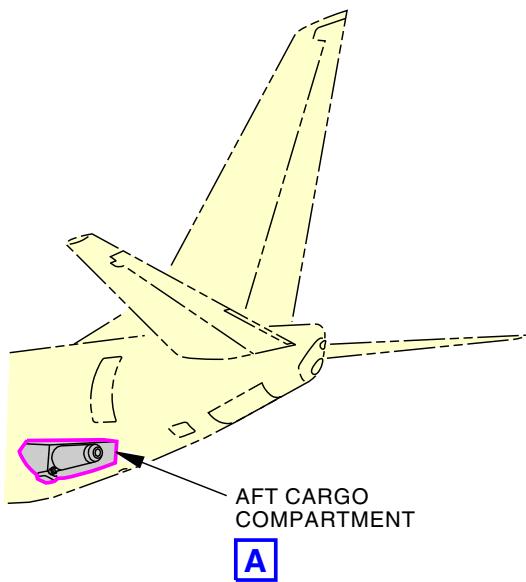
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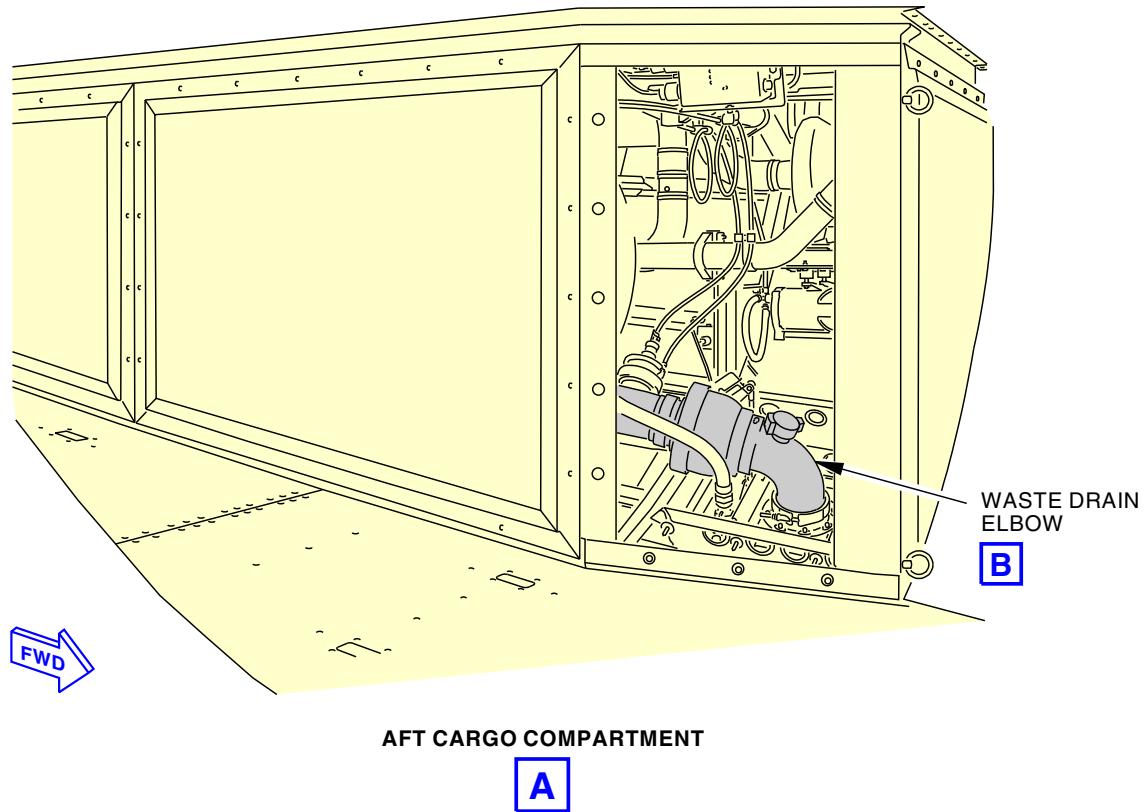


737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL



AFT CARGO COMPARTMENT

A



2238094 S0000500158_V2

Waste Line Blockage Removal
Figure 209/38-32-00-990-825 (Sheet 1 of 2)

EFFECTIVITY
LOM 432-434, 437-447, 450-999

38-32-00

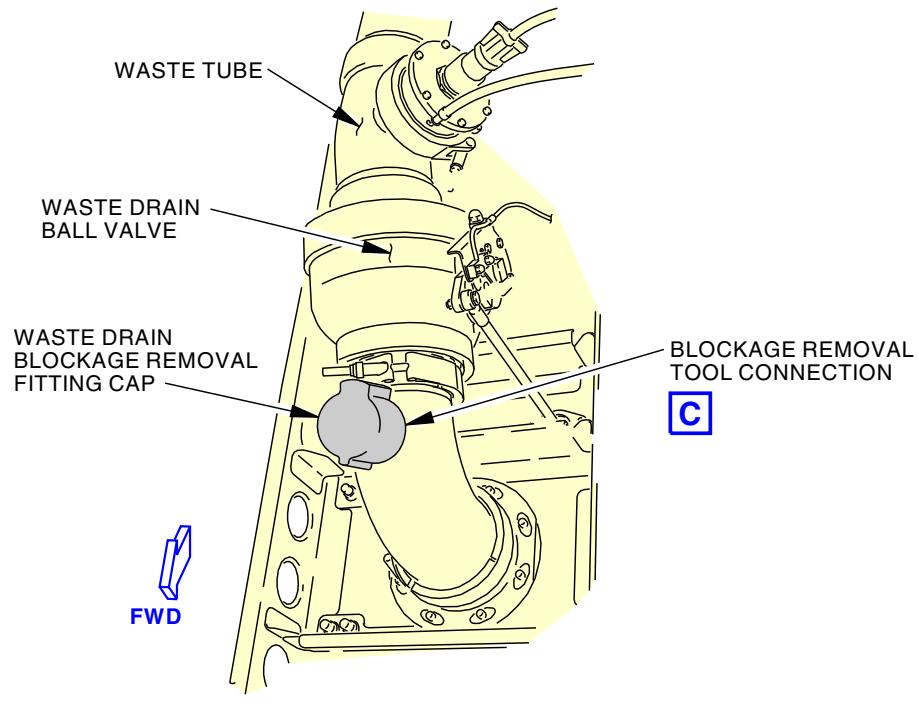
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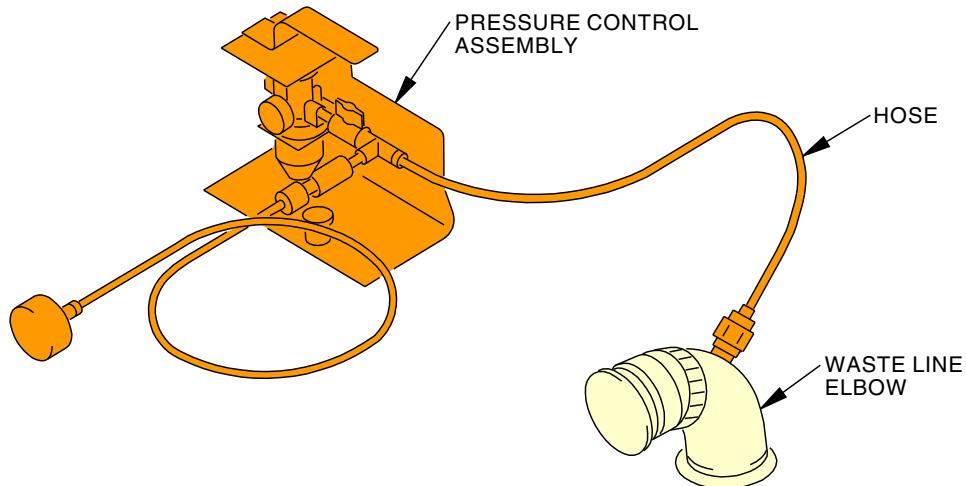


737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL



WASTE DRAIN BALL VALVE

B



2238264 S0000500165_V2

Waste Line Blockage Removal
Figure 209/38-32-00-990-825 (Sheet 2 of 2)

EFFECTIVITY
LOM 432-434, 437-447, 450-999

38-32-00

D633A101-LOM

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AIRCRAFT MAINTENANCE MANUAL

LOM ALL

TASK 38-32-00-160-804

15. Waste Drain Line Blockage Removal

(Figure 210)

A. General

- (1) This task is for a blockage that is between the waste tank and the waste drain valve assembly from outside the airplane. This task is an alternative to, do this task: Waste Tank Drain Line Blockage Removal, TASK 38-32-00-160-803 or Waste Tank Drain Line Blockage Removal, TASK 38-32-00-160-805.

B. References

Reference	Title
12-17-01-610-801	Waste Tank Servicing (P/B 301)
38-33-00-740-802	LCM BITE Test (P/B 501)

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-1950	Equipment - Removal, Vacuum Waste System Blockage Part #: G38006-1 Supplier: 81205
STD-77	Air Source, Regulated - Dry Filtered, 0-50 psig
STD-1142	Equipment - Waste System Servicing

D. Location Zones

Zone	Area
143	Area Below Aft Cargo Compartment - Left

E. Access Panels

Number	Name/Location
145AL	Waste Service Door

F. Procedure

SUBTASK 38-32-00-910-013

- (1) Do this task: Standard Practices for Work with the Toilet Waste and Equipment, TASK 38-32-00-910-801.

SUBTASK 38-32-00-010-021

- (2) Open this access panel:

Number	Name/Location
145AL	Waste Service Door

SUBTASK 38-32-00-010-022

- (3) Open the cap on the waste drain valve assembly.

SUBTASK 38-32-00-480-008

- (4) Connect the vacuum waste system blockage removal equipment, SPL-1950 to the waste drain valve assembly.



38-32-00



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SUBTASK 38-32-00-480-009

- (5) Attach the waste drain hose from the waste system servicing equipment, STD-1142 to the vacuum waste system blockage removal equipment, SPL-1950.

SUBTASK 38-32-00-860-033

- (6) Make sure the hose clamp is in its position on the hose between the waste drain valve assembly and the waste drain hose.

SUBTASK 38-32-00-860-035

- (7) Push the PRESS TO OPEN lever on the waste drain valve assembly.

SUBTASK 38-32-00-860-036

- (8) Pull the handle at the waste service panel to open the waste drain ball valve.

SUBTASK 38-32-00-860-037

- (9) Make sure the air shutoff valve on the vacuum waste system blockage removal equipment, SPL-1950 is in the closed position.

SUBTASK 38-32-00-860-038

- (10) Attach an regulated air source, STD-77 to the vacuum waste system blockage removal equipment, SPL-1950.

SUBTASK 38-32-00-860-039



WARNING

MAKE SURE THE PRESSURE TO THE WASTE BLOCKAGE REMOVAL EQUIPMENT IS NOT MORE THAN 25 PSIG (170 KPA). IF THE PRESSURE IS MORE THAN 25 PSIG (170 KPA), INJURY TO PERSONS OR DAMAGE TO EQUIPMENT CAN OCCUR.

- (11) Make sure the pressure to the vacuum waste system blockage removal equipment, SPL-1950 is 0 to 25 PSIG (170 kPa).

SUBTASK 38-32-00-160-011

- (12) Open the air pressure valve of the vacuum waste system blockage removal equipment, SPL-1950 until the air flow is constant and the pressure does not increase or until the pressure drops, then close the air pressure valve.

SUBTASK 38-32-00-860-040

- (13) Remove the hose clamp between the waste drain valve assembly and the waste drain hose.

SUBTASK 38-32-00-710-015

- (14) Make sure the blockage is clear.

SUBTASK 38-32-00-610-013

- (15) If the blockage is clear, then continue.

- (a) If the blockage is not clear, do the blockage removal procedure again until the line is clear.

SUBTASK 38-32-00-080-008

- (16) Disconnect the waste drain hose from the vacuum waste system blockage removal equipment, SPL-1950.

SUBTASK 38-32-00-080-009

- (17) Disconnect the vacuum waste system blockage removal equipment, SPL-1950 from the waste drain valve assembly.

SUBTASK 38-32-00-610-014

- (18) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.

EFFECTIVITY
LOM ALL

38-32-00



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SUBTASK 38-32-00-610-015

- (19) To make sure the waste indication system is operational, do this task: LCM BITE Test,
TASK 38-33-00-740-802.

G. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-00-010-023

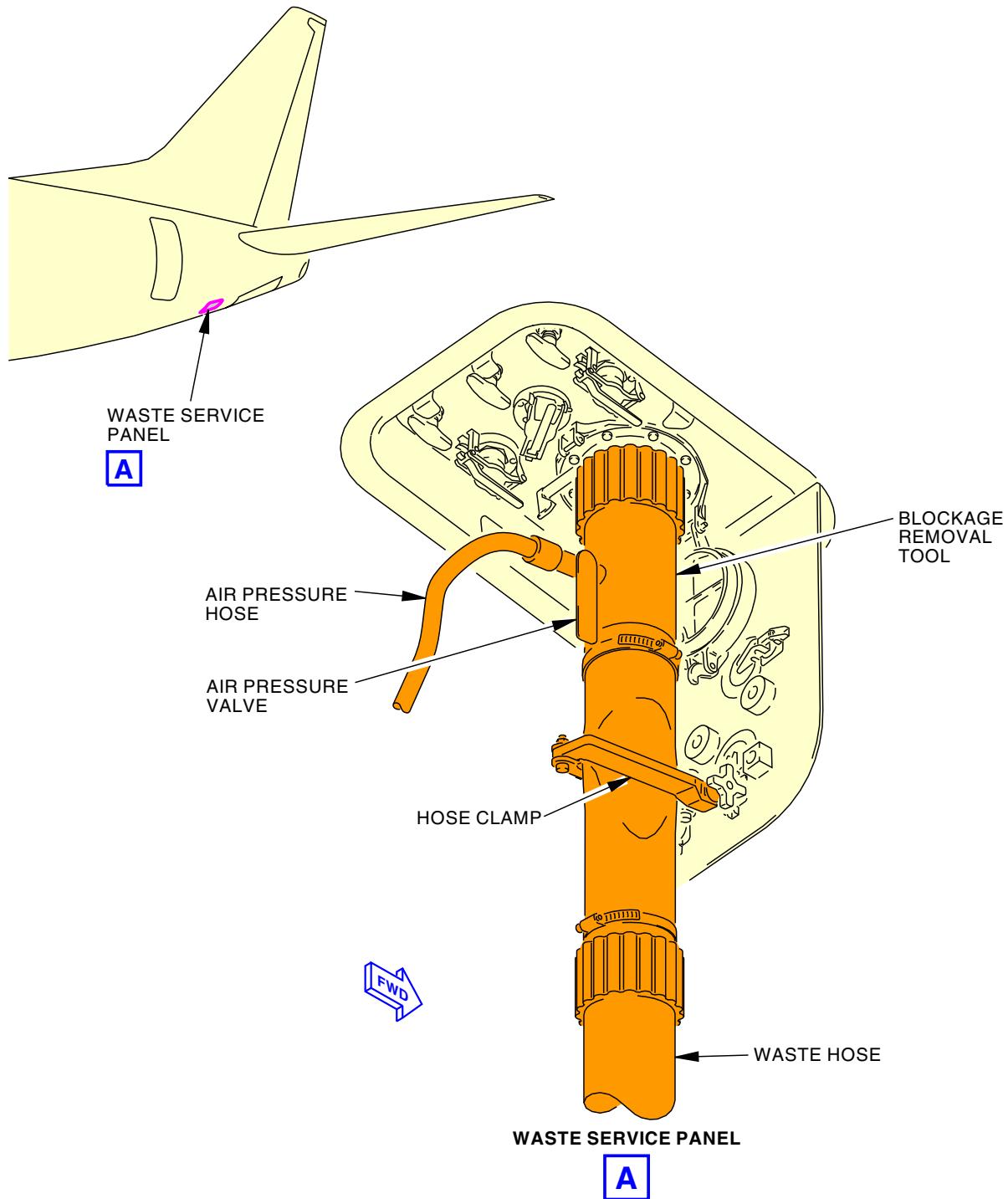
- (1) Close this access panel:

<u>Number</u>	<u>Name/Location</u>
145AL	Waste Service Door

———— END OF TASK ————

EFFECTIVITY
LOM ALL

38-32-00



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Waste Blockage Removal Tool
Figure 210/38-32-00-990-821

EFFECTIVITY
LOM ALL

38-32-00

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TASK 38-32-00-040-803

16. Vacuum Waste Blower - Deactivation

(Figure 211)

A. General

- (1) This task will deactivate the vacuum waste blower.

B. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
141	Aft Cargo Compartment - Left

C. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

D. Vacuum Waste Blower Deactivation

SUBTASK 38-32-00-010-051

- (1) To get access to the P91 panel, open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 38-32-00-860-079



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.

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

Power Distribution Panel Number 1, P91

Row	Col	Number	Name
C	11	C01388	VACUUM WASTE CONT
F	2	C01389	VACUUM WASTE BLOWER

SUBTASK 38-32-00-410-044

- (3) Close this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

E. Tryout

NOTE: This tryout is to make sure that the vacuum waste blower is in a zero energy state.

EFFECTIVITY
LOM ALL

38-32-00



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SUBTASK 38-32-00-710-018

- (1) Flush a toilet in the waste system.
 - (a) Make sure that the toilet flush does not operate.

———— END OF TASK ————

— EFFECTIVITY —
LOM ALL

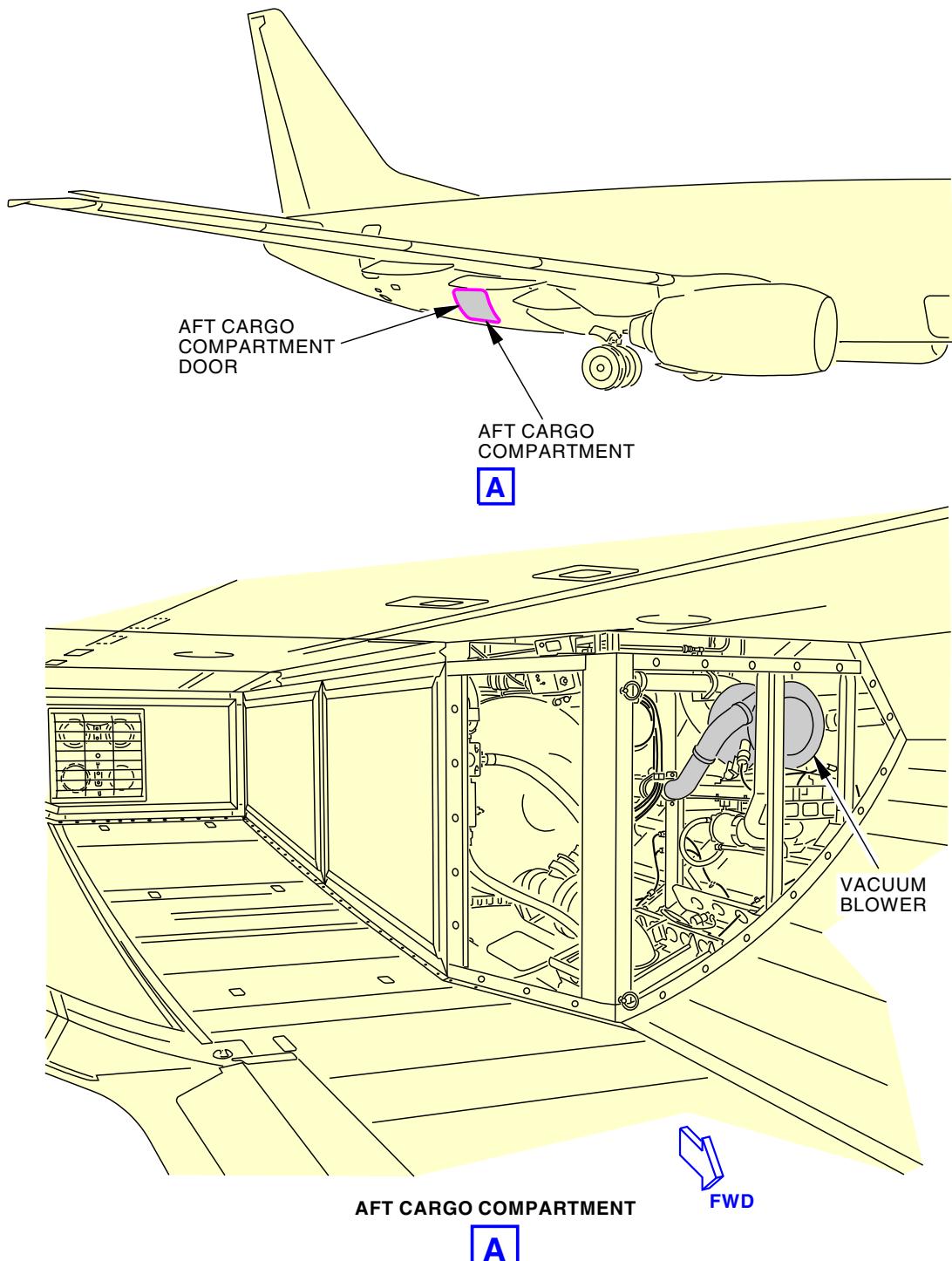
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2363499 S0000540978_V2

Vacuum Waste Blower
Figure 211/38-32-00-990-827

EFFECTIVITY
LOM ALL

38-32-00

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TASK 38-32-00-440-802

17. Vacuum Waste Blower - Activation

(Figure 211)

A. General

- (1) This task will activate the vacuum waste blower.

B. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
141	Aft Cargo Compartment - Left

C. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

D. Vacuum Waste Blower Activation

SUBTASK 38-32-00-010-058

- (1) To get access to the P91 panel, open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 38-32-00-860-080



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.

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

Power Distribution Panel Number 1, P91

Row	Col	Number	Name
C	11	C01388	VACUUM WASTE CONT
F	2	C01389	VACUUM WASTE BLOWER

SUBTASK 38-32-00-410-036

- (3) Close this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

— END OF TASK —

EFFECTIVITY
LOM ALL

38-32-00



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VACUUM WASTE SYSTEM - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
- (1) Removal of the vacuum waste tubes.
 - (2) Installation of the vacuum waste tubes.

TASK 38-32-00-020-801

2. Vacuum Waste Tubes - Removal

(Figure 401)

A. General

- (1) This procedure has the steps to remove a vacuum waste tube section for replacement or maintenance.
- (2) You can do this procedure if you must remove and install a waste tube because of these conditions:
 - If you can not remove a clog in a tube by an in-situ procedure (PAGEBLOCK 38-32-00/701).
 - If it is necessary to remove a tube for access or for replacement.

B. References

Reference	Title
05-51-57-000-802	Corrosion Removal After Acid Spills (P/B 201)
38-32-00 P/B 701	VACUUM WASTE SYSTEM - CLEANING/PAINTING
38-32-00-280-801	Vacuum Line Blockage Inspection (P/B 201)
38-32-00-910-801	Standard Practices for Work with the Toilet Waste and Equipment (P/B 201)
53-11-37-600-804	Galley and Lavatory Areas - Corrosion Prevention (P/B 201)

C. Location Zones

Zone	Area
100	Lower Half of Fuselage
117	Electrical and Electronics Compartment - Left

D. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

E. Prepare for the Removal

SUBTASK 38-32-00-910-020

- (1) Do this task: Standard Practices for Work with the Toilet Waste and Equipment, TASK 38-32-00-910-801.

SUBTASK 38-32-00-860-082

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
D	19	C01423	VACUUM WASTE

EFFECTIVITY
LOM ALL

38-32-00



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AIRCRAFT MAINTENANCE MANUAL

SUBTASK 38-32-00-010-052

- (3) To get access to the P91 panel, open this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-32-00-865-001



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.

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

Power Distribution Panel Number 1, P91

Row	Col	Number	Name
C	11	C01388	VACUUM WASTE CONT
F	2	C01389	VACUUM WASTE BLOWER

SUBTASK 38-32-00-010-032

- (5) Get access to the waste tube to remove, see the figures that follow:

- Vacuum Waste System - Primary Routing, Vacuum Line Blockage Inspection, TASK 38-32-00-280-801
- Galley and Lavatory Areas, Galley and Lavatory Areas - Corrosion Prevention, TASK 53-11-37-600-804
- Figure 401.

SUBTASK 38-32-00-030-002

- (6) If necessary, remove the shroud over the coupling as required.

F. Vacuum Waste Tube Removal

SUBTASK 38-32-00-030-003

- (1) To remove the clamshell coupling, do these steps:

NOTE: Be prepared to catch unwanted fluid from the waste line.

- Pull the latches up.
- Remove the clamshell coupling from the flanges of the two ferrules and the sleeve.
- Move the sleeve from the ferrules.
- Pull the tubes apart.

NOTE: If necessary, loosen the support clamps on the adjacent waste lines.

- Remove and discard the O-ring from each ferrule.

EFFECTIVITY
LOM ALL

38-32-00



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AIRCRAFT MAINTENANCE MANUAL

SUBTASK 38-32-00-020-007

- (2) Remove the tube.

NOTE: Be prepared to catch unwanted fluid from the waste line.

- (a) If necessary, do this task: Corrosion Removal After Acid Spills, TASK 05-51-57-000-802.

SUBTASK 38-32-00-620-001

- (3) Put a bag or cap on the ends of the tube that you remove to contain unwanted material.

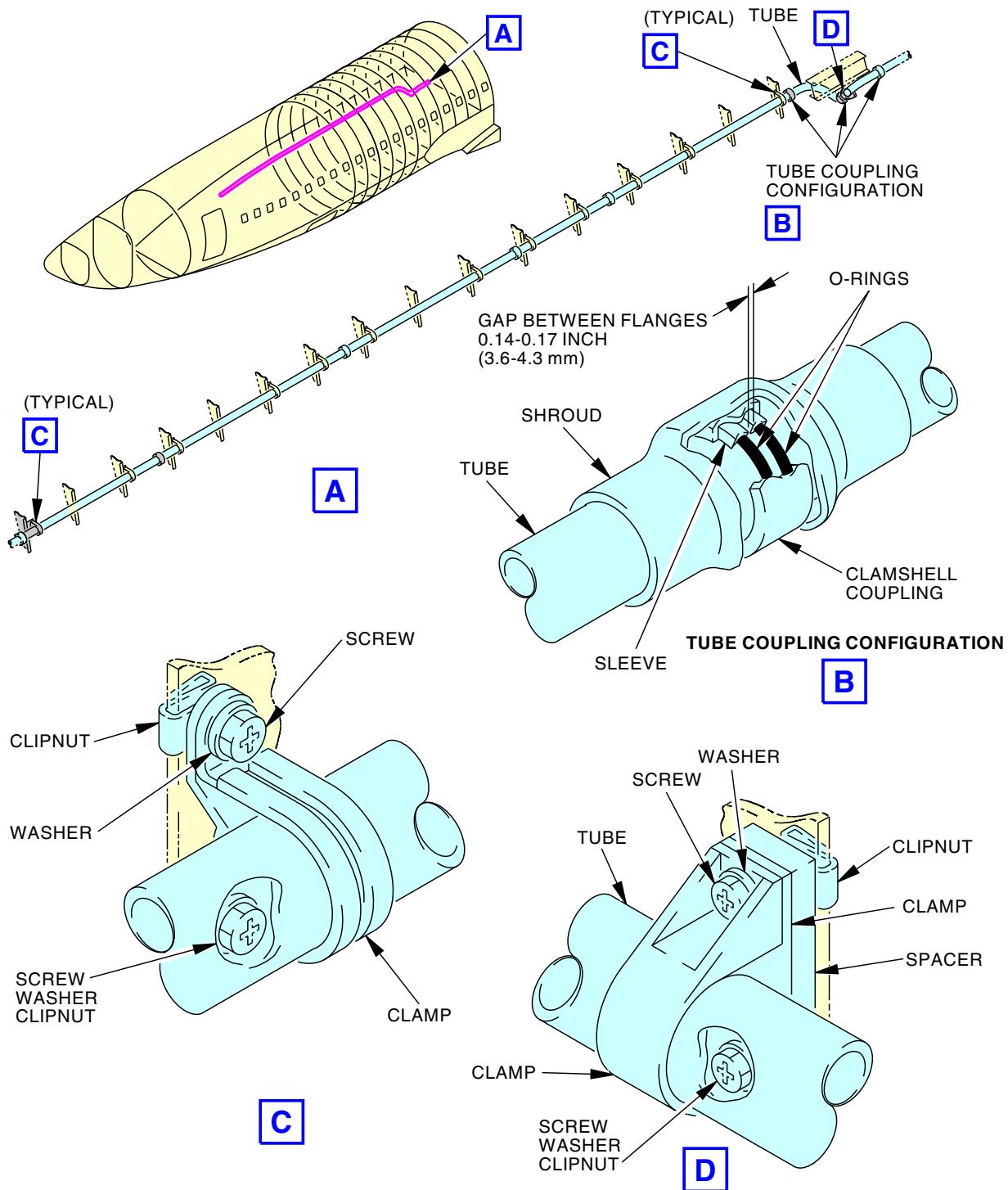
SUBTASK 38-32-00-620-002

- (4) Put a bag or cap on the ends of the remaining tubing to contain unwanted material.

———— END OF TASK ————

EFFECTIVITY
LOM ALL

38-32-00



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Vacuum Waste Tubes Installation
Figure 401/38-32-00-990-828

EFFECTIVITY
LOM ALL
38-32-00



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AIRCRAFT MAINTENANCE MANUAL

TASK 38-32-00-420-802

3. Vacuum Waste Tubes - Installation

(Figure 401)

A. General

- (1) This procedure is used to install a vacuum waste tube section for replacement or after maintenance.
- (2) You can do this procedure if you must remove and install a waste tube because of these conditions:
 - If you can not remove a clog in a tube by an in-situ procedure (PAGEBLOCK 38-32-00/701).
 - If it is necessary to remove a tube for access or for replacement.

B. References

Reference	Title
38-32-00 P/B 701	VACUUM WASTE SYSTEM - CLEANING/PAINTING

C. Consumable Materials

Reference	Description	Specification
B00316	Solvent - Aliphatic Naphtha (For Organic Coatings)	TT-N-95 Type I, ASTM D-3735 Type I
D00627 [P06-002]	Lubricant - White Petrolatum	PMC 9609
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	AMS3819 Class 1 Grade A or B Form 1 (Supersede BMS15-5 CL A)

D. Location Zones

Zone	Area
100	Lower Half of Fuselage
117	Electrical and Electronics Compartment - Left

E. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

F. Vacuum Waste Tubes Installation

SUBTASK 38-32-00-160-017

- (1) Do these steps to clean the clamshell coupling:
 - (a) Make sure that all the parts of the clamshell coupling are free of:
 - Cuts
 - Scratches
 - Dents
 - Distortions
 - Particles of unwanted material
 - (b) Clean the areas that seal with a lint-free gauze cotton wiper, G00034, moist with solvent, B00316
 - (c) Use a new, dry cotton wiper, G00034, to dry the sealing surfaces.
 - (d) Clean the new O-ring with a clean, dry, lint-free gauze cotton wiper, G00034.

EFFECTIVITY
LOM ALL

38-32-00



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

SUBTASK 38-32-00-420-007



CAUTION

USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (2) Install the clamshell coupling.
 - (a) Apply a thin layer of lubricant, D00627 [P06-002], or MIL-L-4343, to the inner surface of the sleeve.
 - (b) Install one new O-ring on each ferrule.
 - (c) Make sure that the ends between two adjacent tubing flanges that connect at the clamshell coupling are 0.14 in. (3.56 mm) to 0.17 in. (4.32 mm) apart.
 - (d) Move the sleeve to the center of the clamshell coupling.
 - (e) Make sure the "S-tube" aligns with the adjacent tubing.
 - (f) Push each latch down.
 - (g) Make sure that each latch is on tight.
 - (h) Visually examine the latches to make sure that they are at the same level.
 - (i) If necessary, install the shroud on the coupling.

NOTE: The shroud is used at joints to give more leakage protection.

SUBTASK 38-32-00-420-006

- (3) Install the clamp, do these steps:
 - (a) Put the clamps onto the tubing.
 - (b) Install the screws, washers, and nuts on the clamps.
 - (c) Tighten the clamps.

SUBTASK 38-32-00-860-081



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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT
F	2	C01389	VACUUM WASTE BLOWER

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LOM ALL

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SUBTASK 38-32-00-410-037

- (5) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-32-00-860-083

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

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	19	C01423	VACUUM WASTE

———— END OF TASK ————

EFFECTIVITY
LOM ALL

38-32-00



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VACUUM WASTE SYSTEM - ADJUSTMENT/TEST

1. General

- A. This procedure contains scheduled maintenance task data.
- B. This procedure has these tasks:
 - (1) A leak test for the vacuum waste system.
 - (2) A operational test of the toilet.
 - (3) A functional test of the waste drain system.

TASK 38-32-00-700-801

2. Vacuum Waste System - Leak Test

(Figure 501)

A. General

- (1) This procedure gives the instructions to make sure that the vacuum waste system does not have a leak.

B. References

Reference	Title
25-52-20-000-801	Waste Tank Enclosure Panel - Removal (P/B 401)
25-52-20-400-801	Waste Tank Enclosure Panel - Installation (P/B 401)

C. Tools/Equipment

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

Reference	Description
SPL-1942	Plugs - Vent, Vacuum Waste System Part #: A38001-22 Supplier: 81205 Opt Part #: A38001-16 Supplier: 81205
SPL-9132	Vacuum Pump Part #: A38001-68 Supplier: 81205
STD-1134	Vacuum Source, 24 Inches Hg Minimum

D. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
141	Aft Cargo Compartment - Left
200	Upper Half of Fuselage
822	Aft Cargo Door

E. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
822	Aft Cargo Door



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F. Prepare for the Test

SUBTASK 38-32-00-010-053

- (1) To get access to the P91 panel, open this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-32-00-860-001



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.

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

Power Distribution Panel Number 1, P91

Row	Col	Number	Name
C	11	C01388	VACUUM WASTE CONT
F	2	C01389	VACUUM WASTE BLOWER

SUBTASK 38-32-00-010-001

- (3) Open this access panel:

Number Name/Location

822 Aft Cargo Door

SUBTASK 38-32-00-010-002



CAUTION

USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (4) To remove the sidewall panels to get access to the vacuum blowers, do this task: Waste Tank Enclosure Panel - Removal, TASK 25-52-20-000-801.

SUBTASK 38-32-00-020-001

- (5) Disconnect the inlet and the outlet connections of the vacuum blower.

SUBTASK 38-32-00-480-001

- (6) Install the vent vacuum waste vent plug, SPL-1942, in the inlet and the outlet lines for the vacuum blower.

SUBTASK 38-32-00-480-002

- (7) Install the vent plug assembly in the overboard vent outlet for the vacuum blower.

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SUBTASK 38-32-00-480-003

- (8) Connect the vacuum source (24 inches Hg minimum), STD-1134, source or vacuum test equipment vacuum pump, SPL-9132, to the vent plug assembly.

G. Vacuum Waste System Leak Test

SUBTASK 38-32-00-790-001

- (1) Supply a vacuum of 20 ± 1 inches of mercury (500 mm of mercury) to the vacuum waste system.

SUBTASK 38-32-00-790-002

- (2) Close the control valve at the vacuum source.

SUBTASK 38-32-00-790-003

- (3) Write down the initial pressure after you close the control valve.

SUBTASK 38-32-00-790-004

- (4) Write down the final pressure after 5 minutes.

SUBTASK 38-32-00-790-005

- (5) Make sure that the vacuum is between 10 and 20 inches of mercury (250 and 500 mm of mercury) after 5 minutes.

SUBTASK 38-32-00-790-006

- (6) Open the control valve at the vacuum source to bleed the vacuum.

H. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-00-080-001

- (1) Disconnect the vacuum source from the vent plug assembly.

SUBTASK 38-32-00-080-002

- (2) Remove the vent plug assembly from the overboard vent outlet for the vacuum blower.

SUBTASK 38-32-00-080-003

- (3) Remove the vent plugs from the inlet and the outlet lines for the vacuum blower.

SUBTASK 38-32-00-420-001

- (4) Connect the inlet and the outlet connections of the vacuum blower.

SUBTASK 38-32-00-410-001



WARNING

SEAL THE CARGO COMPARTMENT WITH THE LINING. OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN YOU INSTALL THE LINING. IF YOU INSTALL THE LINING INCORRECTLY, THE SMOKE CAN GET INTO THE PASSENGER COMPARTMENT DURING A FIRE.

- (5) Do this task: Waste Tank Enclosure Panel - Installation, TASK 25-52-20-400-801.

SUBTASK 38-32-00-410-002

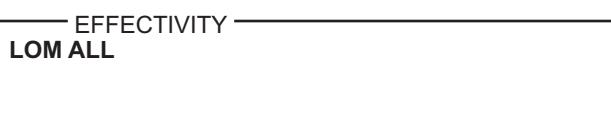
- (6) Close this access panel:

Number

Name/Location

822

Aft Cargo Door



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SUBTASK 38-32-00-860-002



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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT
F	2	C01389	VACUUM WASTE BLOWER

SUBTASK 38-32-00-410-038

- (8) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

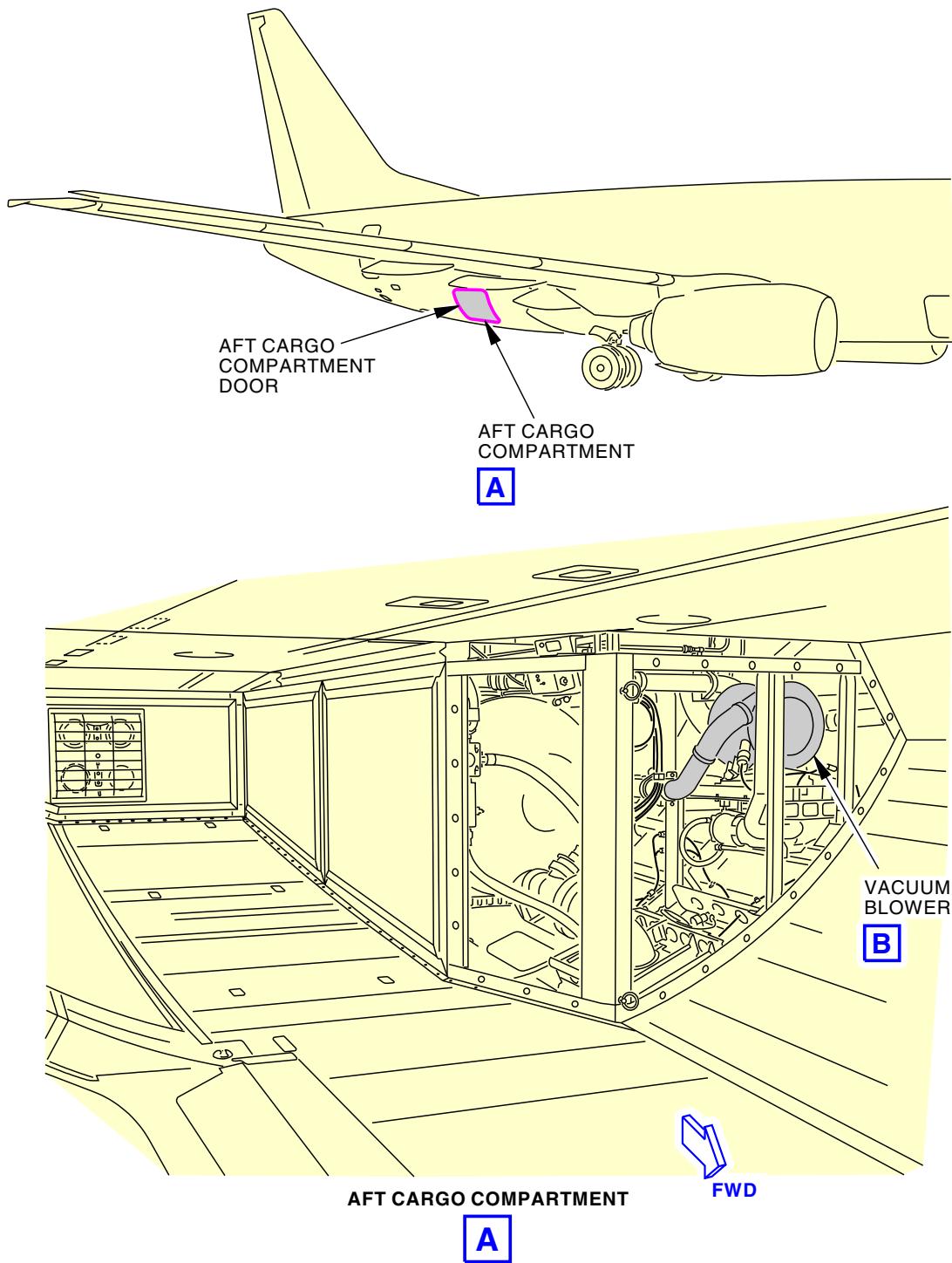
———— END OF TASK ————

EFFECTIVITY
LOM ALL

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G18019 S0006578479_V2

Vacuum System - Leak Test
Figure 501/38-32-00-990-823 (Sheet 1 of 3)

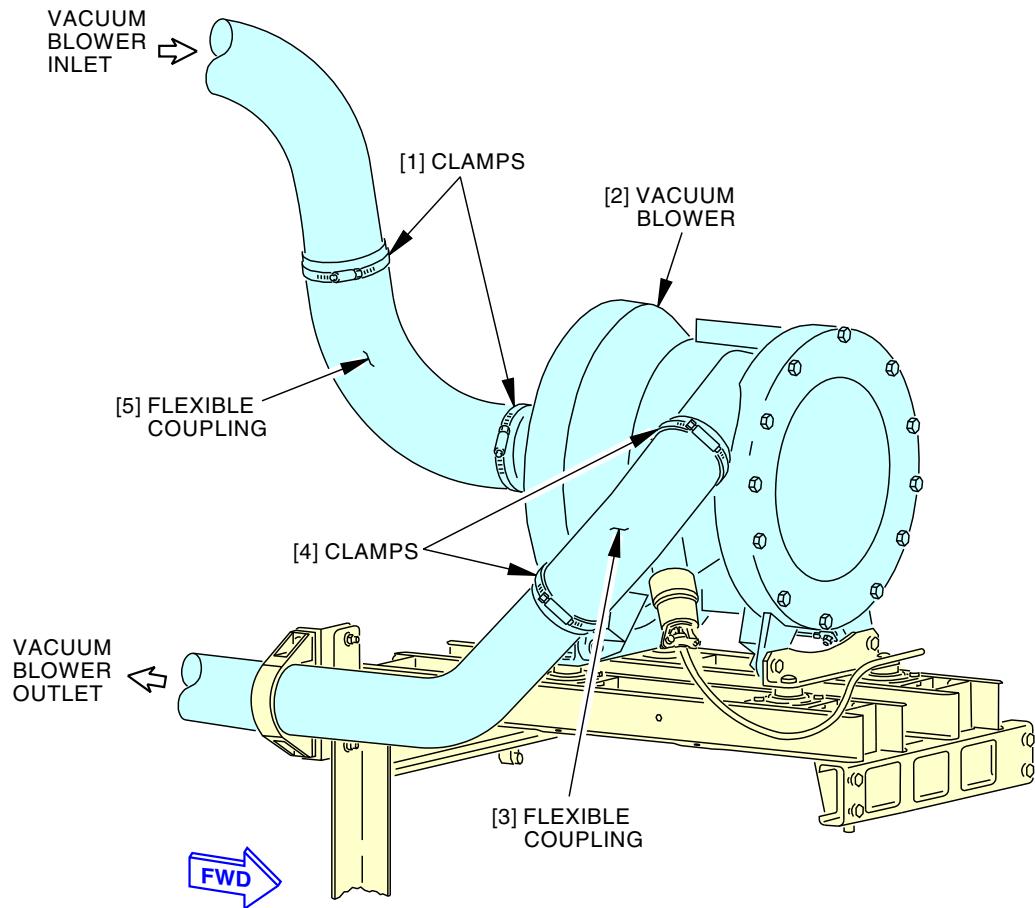
EFFECTIVITY
LOM ALL

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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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VACUUM BLOWER

B

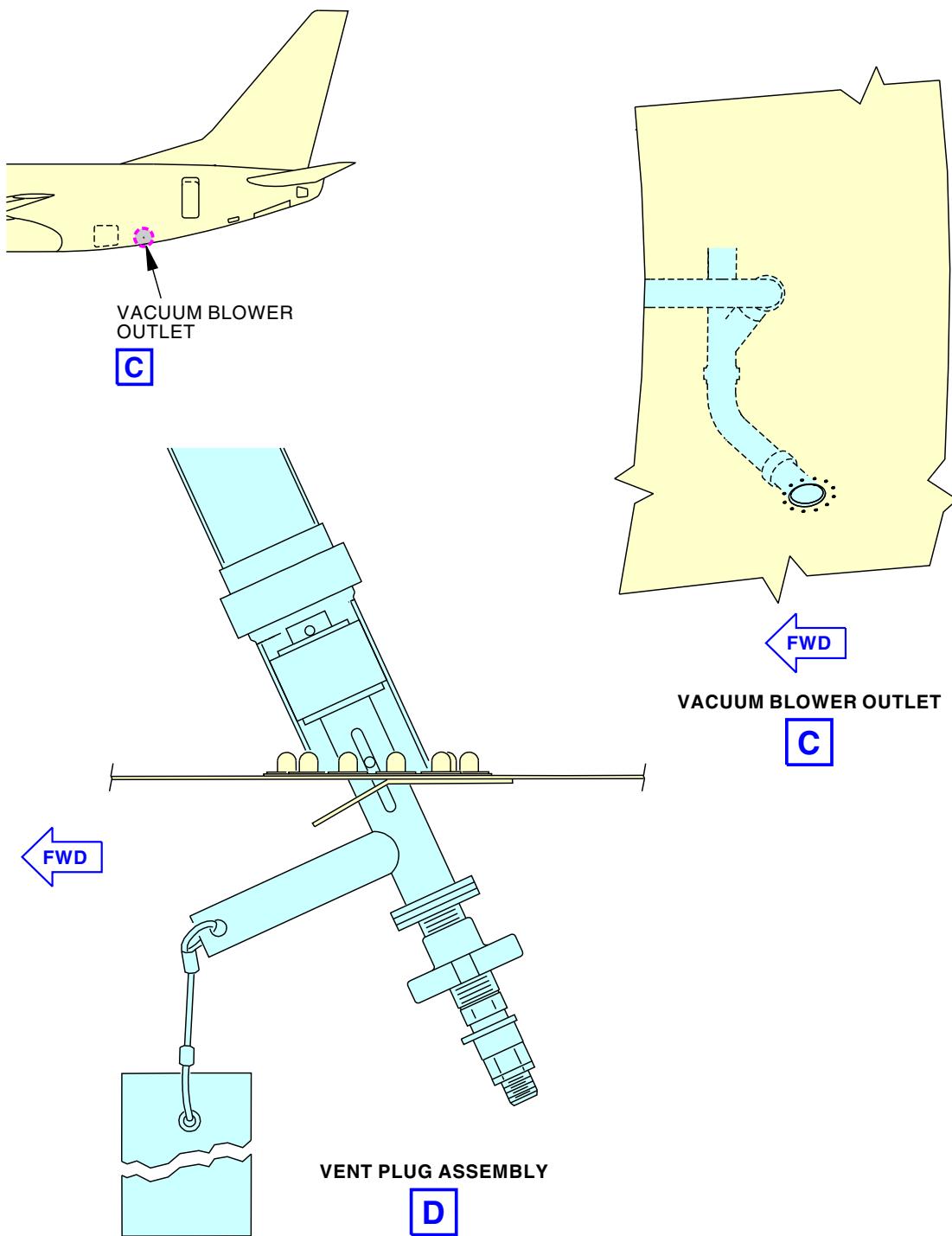
G18033 S0006578481_V2

Vacuum System - Leak Test
Figure 501/38-32-00-990-823 (Sheet 2 of 3)EFFECTIVITY
LOM ALL**38-32-00**

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G18056 S0006578482_V2

Vacuum System - Leak Test
Figure 501/38-32-00-990-823 (Sheet 3 of 3)

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LOM ALL

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TASK 38-32-00-700-802

3. Toilet - Operational Test

A. General

- (1) This procedure gives the instructions to test the vacuum waste system from the toilet.

B. References

Reference	Title
12-14-01-600-802	Potable Water Tank - Fill (P/B 301)
24-22-00-860-811	Supply Electrical Power (P/B 201)
38-32-01-000-801-001	Toilet Shroud Removal (P/B 401)
38-32-01-000-834-002	Toilet Shroud Removal (P/B 401)
38-32-01-000-843-003	Toilet Shroud Removal (P/B 401)
38-32-01-400-801-001	Toilet Shroud Installation (P/B 401)
38-32-01-400-834-002	Toilet Shroud Installation (P/B 401)
38-32-01-400-843-003	Toilet Shroud Installation (P/B 401)

C. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage

D. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

E. Prepare for the Test

SUBTASK 38-32-00-010-054

- (1) To get access to the P91 panel, open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 38-32-00-860-003



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.



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(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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT
F	2	C01389	VACUUM WASTE BLOWER

SUBTASK 38-32-00-860-004

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

SUBTASK 38-32-00-010-003

- (4) Get access to the lavatory for the toilet test.

SUBTASK 38-32-00-010-004

- (5) To remove the toilet shroud, do this task: Toilet Shroud Removal, TASK 38-32-01-000-834-002 or Toilet Shroud Removal, TASK 38-32-01-000-801-001 or Toilet Shroud Removal, TASK 38-32-01-000-843-003.

F. Toilet Operational Test

SUBTASK 38-32-00-860-005

- (1) Make sure that the potable water system is not empty.
(a) If the potable water system is empty, do this task: Potable Water Tank - Fill, TASK 12-14-01-600-802.
(b) If the potable water system is not empty, continue.

LOM 465-999

SUBTASK 38-32-00-860-084

- (2) Make sure that the water shutoff valve for the lavatory is in the SUPPLY ON position.

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-464

SUBTASK 38-32-00-860-085

- (3) Make sure that the water shutoff valve for the lavatory is in the SUPPLY/DRAIN position.

LOM ALL

SUBTASK 38-32-00-710-001

- (4) Operate the toilet flush switch.

SUBTASK 38-32-00-790-007

- (5) Make sure that the vacuum blower operates immediately.

SUBTASK 38-32-00-710-002

- (6) Make sure that the water flows from all of the nozzles in the rinse ring of the toilet.

NOTE: The water must not come out of the toilet bowl as a mist.

SUBTASK 38-32-00-710-003

- (7) Make sure that the toilet flush valve opens to remove all of the water from the toilet bowl.

EFFECTIVITY
LOM ALL

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SUBTASK 38-32-00-710-004

- (8) Make sure that the toilet flush valve closes after all of the water is removed.

NOTE: A partially open valve will cause air noise at the toilet when any toilet on the system is activated.

SUBTASK 38-32-00-710-005

- (9) Make sure that the vacuum blower stops after approximately 15 seconds.

SUBTASK 38-32-00-410-003

- (10) To install the toilet shroud, do this task: Toilet Shroud Installation, TASK 38-32-01-400-834-002 or Toilet Shroud Installation, TASK 38-32-01-400-801-001 or Toilet Shroud Installation, TASK 38-32-01-400-843-003.

SUBTASK 38-32-00-710-006

- (11) Do the Toilet - Operational Test again for the other toilets in the vacuum waste system.

G. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-00-410-004

- (1) Close the access to the lavatory.

SUBTASK 38-32-00-410-039

- (2) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

———— END OF TASK ————

EFFECTIVITY
LOM ALL

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VACUUM WASTE SYSTEM - CLEANING/PAINTING

1. General

- A. This procedure gives the instructions to clean the vacuum waste tubes. Use this procedure to decrease the scale that collects in the vacuum waste tubes.
- B. One or more of these tasks may be used as required to keep the waste lines clean. Which task(s) are used and their frequency of application should be based on local conditions and operator experience.
- C. If there is excessive or quickly reoccurring scale buildup, check the operation of the toilet flush valves and make sure the valves are closing completely. A partially open valve can cause a drying effect in the tubes increasing the scale accumulation. A partially open valve will cause air noise at the toilet when any toilet on the system is activated.
- D. This procedure has these tasks:
 - (1) A periodic flush of the vacuum waste system.
NOTE: You use this procedure to keep the vacuum waste lines clean of the waste build-up. To get the maximum effect, you must frequently do this task.
 - (2) A pressure washer cleaning of the vacuum waste lines.
NOTE: You use this procedure to clean the vacuum waste lines of the waste build-up. To get the maximum effect, you must use this procedure before you have frequent problems with the vacuum waste lines.
 - (3) A pressure test procedure.
NOTE: This procedure is used before the Soak or Recirculate procedure to make sure that the waste lines will not leak.
 - (4) A soak cleaning of the vacuum waste lines.
NOTE: You use this procedure to clean the vacuum waste lines of the waste build-up. To get the maximum effect, approximately 8 to 24 hours of soak time is needed to clean the vacuum waste lines.
 - (5) A recirculate method of cleaning the vacuum waste lines.
NOTE: You use this procedure to clean the vacuum waste lines of the heavy waste build-up. To get the maximum effect, you must use this procedure before the waste lines are fully blocked.

TASK 38-32-00-100-801

2. Periodic Flush - Vacuum Waste System Cleaning

A. General

- (1) This task contains the procedures necessary to clean by a periodic flush of a chemical through the vacuum waste system.
NOTE: You use these procedures to clean a waste build-up in the vacuum waste lines. To get the maximum effect, you must frequently do this task. You find the frequency and quantity of the cleaner by operator experience.

EFFECTIVITY
LOM ALL

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- (2) The chemicals used in this task are qualified to the Boeing specified waste tank test in BSS7432. Alternate chemicals must be qualified to the Boeing specified waste tank test to prevent possible damage to the tank.

NOTE: Honey Bee 60 cleaner, B00638 has higher viscosity than Honey Bee 60 T cleaner, B50329 and Honey Bee 60 TNP cleaner, B50330 and is the preferred Honey Bee 60 variant in applications where the surfaces to be cleaned will not be fully immersed in or continuously exposed to cleaning fluid, such as periodic flush cleaning procedures. The higher viscosity helps the cleaning fluid adhere to and clean these surfaces.

B. References

Reference	Title
12-17-01-610-801	Waste Tank Servicing (P/B 301)

C. Consumable Materials

Reference	Description	Specification
B00636	Acid, Acetic (Vinegar) (5%-10% Acetic Acid)	Commercially available product
B00638	Cleaner - Acidic Liquid - Honey Bee 60 (McGean-Rohco)	
B50091	Cleaner - Gly-Vak Toilet Line Scale Remover	AMS 1550B
B50116	Toilet Soak Cleaner - Sani-Tank SP-8000N (Neutral pH and no phosphates)	AMS 1550B
B50329	Cleaner - Acidic Liquid - Honey Bee 60 T	
B50330	Cleaner - Acidic Liquid - Honey Bee 60 TNP	
G50461	Ice - Crushed, 0.50-inch (12.70 mm) to 0.75-inch (19.05 mm) maximum	

D. Location Zones

Zone	Area
200	Upper Half of Fuselage

E. Prepare for Cleaning

SUBTASK 38-32-00-010-009

- (1) Get access to the passenger compartment.

SUBTASK 38-32-00-610-003

- (2) If the waste tanks are more than half full, do this task: Waste Tank Servicing, TASK 12-17-01-610-801 but do not do the steps add precharge.

SUBTASK 38-32-00-610-021

- (3) For waste line cleaning with Waste Line Procedure 1 or Waste Line Procedure 2 do this step.
(a) Add approximately 20 gal (76 l) of water to each waste tank.

NOTE: The water will reduce the chance of damage to the tank from ice.

F. Waste Line Cleaning

SUBTASK 38-32-00-160-021

- (1) Use one of the following methods to periodically clean the waste lines:



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G. Waste Line Cleaning Procedure 1

SUBTASK 38-32-00-170-001



CAUTION

DO NOT USE LARGE ICE CUBES AS AN ALTERNATIVE TO THE CRUSHED ICE. LARGE ICE CUBES CAN CAUSE DAMAGE TO THE POINT LEVEL SENSORS IN THE WASTE TANK.

- (1) Procedure 1 (Crushed Ice and Acid)

NOTE: Ice is not necessary but is recommended.

Do these steps, if you use the sulfamic acid Honey Bee 60 cleaner, B00638, Honey Bee 60 T cleaner, B50329, Honey Bee 60 TNP cleaner, B50330, or the alternative acetic acid, B00636, and crushed ice, G50461:

- (a) Starting with the forward most toilet, add about 0.5 gal (2 l) of crushed ice, G50461, to the toilet bowl.

NOTE: Keep the temperature of the ice at the coldest possible temperature. The ice should be about 0.5 in. (1 cm) to 0.75 in. (2 cm) in maximum dimension.



WARNING

DO NOT GET THE TOILET SYSTEM CLEANER IN YOUR EYES, OR ON YOUR SKIN. FLUSH THE CLEANER FROM YOUR EYES AND SKIN WITH WATER. IF YOU DRINK THE TOILET SYSTEM CLEANER, GET MEDICAL AID. THE TOILET SYSTEM CLEANER IS AN ACID. IT CAN BURN YOU.



CAUTION

DO NOT GET THE TOILET SYSTEM CLEANER ON THE STRUCTURE OF THE AIRPLANE. THE TOILET SYSTEM CLEANER IS AN ACID. IT CAN CAUSE DAMAGE TO THE AIRPLANE.



CAUTION

USE A CLEANING SOLUTION FROM THE WASTE-TANK TEST SPECIFICATION. OTHER CLEANING SOLUTIONS CAN CAUSE DAMAGE TO THE TANK.

- (b) Add about 2 qt (2 l) of the Honey Bee 60 cleaner, B00638, Honey Bee 60 T cleaner, B50329, Honey Bee 60 TNP cleaner, B50330 (recommended), or the 5 to 10% acetic acid, B00636 cleaner (optional), to the toilet bowl.
- (c) Flush the toilet to remove the toilet system cleaner from the toilet bowl and put the toilet system cleaner into the waste line.

NOTE: The longer you leave the toilet system cleaner in the waste line, the better the cleaning results.

- (d) Do the steps above (Waste Line Cleaning Procedure 1) for each toilet one time, moving from the forward toilet to the aft toilet.
- (e) Let the toilet system cleaner stay in the waste lines as long as possible.

NOTE: The results are better if you let the cleaner stay in the waste line longer. No additional flushing of each toilet is required until the next passenger's normal usage of the lavatory. These cleaners are safe for long term exposure to the waste lines.

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LOM ALL

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H. Waste Line Cleaning Procedure 2

SUBTASK 38-32-00-170-012



CAUTION

DO NOT USE LARGE ICE CUBES AS AN ALTERNATIVE TO THE CRUSHED ICE. LARGE ICE CUBES CAN CAUSE DAMAGE TO THE POINT LEVEL SENSORS IN THE WASTE TANK.

- (1) Procedure 2 (Alternate Chemical With Crushed Ice)

NOTE: Ice is not necessary but is recommended.

Do these steps, if you use the glycolic acid Sani-Tank SP-8000N toilet soak cleaner, B50116 (Sani-Tank® Neutral), and crushed ice, G50461, to clean up to 0.125 in. (3 mm) of scale:

- (a) Starting with the forward most toilet, add about 1 qt (1 l) of crushed ice, G50461, to the toilet bowl.

NOTE: Keep the temperature of the ice at the coldest possible temperature. The ice should be about 0.5 in. (1 cm) to 0.75 in. (2 cm) in maximum dimension.



WARNING

DO NOT GET THE TOILET SYSTEM CLEANER IN YOUR EYES, OR ON YOUR SKIN. FLUSH THE CLEANER FROM YOUR EYES AND SKIN WITH WATER. IF YOU DRINK THE TOILET SYSTEM CLEANER, GET MEDICAL AID. THE TOILET SYSTEM CLEANER IS AN ACID. IT CAN BURN YOU.



CAUTION

DO NOT GET THE TOILET SYSTEM CLEANER ON THE STRUCTURE OF THE AIRPLANE. THE TOILET SYSTEM CLEANER IS AN ACID. IT CAN CAUSE DAMAGE TO THE AIRPLANE.



CAUTION

USE A CLEANING SOLUTION FROM THE WASTE-TANK TEST SPECIFICATION. OTHER CLEANING SOLUTIONS CAN CAUSE DAMAGE TO THE TANK.

- (b) Add about 1 qt (1 l) of the Sani-Tank SP-8000N toilet soak cleaner, B50116, to the toilet bowl.

NOTE: The quantity of the cleaner necessary to clean a vacuum toilet line changes with the length and condition of the line. The material manufacturer recommends 1 qt (1 l). Operator experience shows that 1 qt (1 l) is sufficient for short vacuum toilet lines. For longer vacuum toilet lines, use more of the cleaner. The frequency you clean and the quantity of the Sani-Tank SP-8000N toilet soak cleaner, B50116, is established by the operator experience.

- (c) Flush the toilet to put Sani-Tank SP-8000N toilet soak cleaner, B50116 and crushed ice, G50461 into the waste line.

- (d) Do the steps above (Waste Line Cleaning Procedure 2) for each toilet one time, moving from the forward toilet to the aft toilet.

- (e) Let the toilet system cleaner stay in the waste lines as long as possible.

NOTE: The results are better if you let the cleaner stay in the waste line longer. No additional flushing of each toilet is required until the next passenger's normal usage of the lavatory. These cleaners are safe for long term exposure to the waste lines.

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- (f) After you complete the full treatment with the Sani-Tank SP-8000N toilet soak cleaner, B50116, and crushed ice, G50461, do this step:
- 1) Do the preventative maintenance using Gly-Vak toilet line scale remover, B50091, as shown in Waste Line Cleaning Procedure 3.

I. Waste Line Cleaning Procedure 3

SUBTASK 38-32-00-170-010



WARNING

DO NOT GET THE TOILET SYSTEM CLEANER IN YOUR EYES, OR ON YOUR SKIN. FLUSH THE CLEANER FROM YOUR EYES AND SKIN WITH WATER. IF YOU DRINK THE TOILET SYSTEM CLEANER, GET MEDICAL AID. THE TOILET SYSTEM CLEANER IS AN ACID. IT CAN BURN YOU.



CAUTION

DO NOT GET THE TOILET SYSTEM CLEANER ON THE STRUCTURE OF THE AIRPLANE. THE TOILET SYSTEM CLEANER IS AN ACID. IT CAN CAUSE DAMAGE TO THE AIRPLANE.



CAUTION

USE A CLEANING SOLUTION FROM THE WASTE-TANK TEST SPECIFICATION. OTHER CLEANING SOLUTIONS CAN CAUSE DAMAGE TO THE TANK.

- (1) Procedure 3 (Chemical Without Crushed Ice)

Do these steps, if you use the glycolic acid Gly-Vak toilet line scale remover, B50091 (Gly-Vak®), to prevent the formation of new scale:

- (a) Starting with the forward most toilet, add approximately 1 qt (946 cc) of the Gly-Vak toilet line scale remover, B50091, to the toilet bowl.

NOTE: The quantity of cleaner necessary to clean the vacuum toilet line changes with the length and condition of the line. The material manufacturer recommends 1 qt (946 cc). Operator experience shows that 1 qt (946 cc) is sufficient for short vacuum lines, but more than 1 qt (946 cc) is necessary for longer vacuum lines. The frequency of waste line cleaning and the quantity of Gly-Vak toilet line scale remover, B50091, is established by the operator's experience.

- (b) Flush the toilet to put the toilet system cleaner into the waste line.
(c) Do the steps above (Waste Line Cleaning Procedure 3) for each toilet one time, moving from the forward toilet to the aft toilet.
(d) Let the toilet system cleaner stay in the waste lines as long as possible.

NOTE: The results are better if you let the cleaner stay in the waste line longer. No additional flushing of each toilet is required until the next passenger's normal usage of the lavatory. These cleaners are safe for long term exposure to the waste lines.

J. Return the Airplane to Its Usual Condition

SUBTASK 38-32-00-610-004

- (1) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.

SUBTASK 38-32-00-410-009

- (2) Close the access to the passenger compartment.

— END OF TASK —

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TASK 38-32-00-100-802

3. Pressure Washer Cleaning of the Vacuum Waste Lines

(Figure 701)

A. General

- (1) To clean the vacuum waste lines with the pressure washer, you must get access at one of these locations:
 - (a) In the lavatory with the toilet assembly removed when you do not open the toilet flush valve.
 - (b) At one of the cleanout ports in the forward cargo compartment with which the removal of the ceiling panel is necessary.
 - (c) In the lavatory, with the toilet flush valve open. When you use this procedure, the bends of the pressure washer hose will be more than if you remove the toilet.

B. References

Reference	Title
12-17-01-610-801	Waste Tank Servicing (P/B 301)
24-22-00-860-811	Supply Electrical Power (P/B 201)
25-52-09-000-801	Cargo Compartment Ceiling Liner - Removal (P/B 401)
25-52-09-400-801	Cargo Compartment Ceiling Liner - Installation (P/B 401)
38-32-00-700-801	Vacuum Waste System - Leak Test (P/B 501)
38-32-00-910-801	Standard Practices for Work with the Toilet Waste and Equipment (P/B 201)
38-32-00-910-802	Waste Tube - Maintenance Practice (P/B 201)
38-32-00-980-801	Toilet Flush Valve - Open for Maintenance (P/B 201)
38-32-01-000-801-001	Toilet Shroud Removal (P/B 401)
38-32-01-000-834-002	Toilet Shroud Removal (P/B 401)
38-32-01-000-843-003	Toilet Shroud Removal (P/B 401)
38-32-01-400-801-001	Toilet Shroud Installation (P/B 401)
38-32-01-400-834-002	Toilet Shroud Installation (P/B 401)
38-32-01-400-843-003	Toilet Shroud Installation (P/B 401)

C. Tools/Equipment

Reference	Description
STD-419	Gloves - Rubber, Elbow Length
STD-1136	Facepiece (Mask) - Particulate Filtering, Disposable (NIOSH N95 approved)
STD-1137	Glasses - Safety
STD-1138	Tubing - Flexible, 1.5 Inch Outside Diameter
STD-1286	Equipment - Pressure Washer, Electric or Diesel Driven, 1500 PSIG to 2500 PSIG with Adjustable Output Pressure
STD-1287	Hose - Pressure Washer, 3/8 Inch I.D. 50 to 150 Foot Length
STD-1288	Nozzle - Rotating, for 3/8 Inch I.D. Hose (Self-Feeding Rotating Nozzle is Recommended)
STD-1289	Guide Spring - Nozzle, for 3/8 Inch I.D. Nozzle

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D. Consumable Materials

Reference	Description	Specification
B00637	Acid, Citric	A-A-59147
G00022	Compound - Chlorine Dioxide For Water Purification - Purogene or Oxine	
G02315	Clothing - Disposable Gown, Gloves For Sewage Handling	

E. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage

F. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

G. Prepare for Cleaning

SUBTASK 38-32-00-010-010

- (1) Get access to the passenger compartment.

SUBTASK 38-32-00-010-011

- (2) Do this task: Standard Practices for Work with the Toilet Waste and Equipment, TASK 38-32-00-910-801.

SUBTASK 38-32-00-910-001

- (3) For the work on the waste equipment, make sure you wear the items for your protection.

NOTE: These are items that you can wear to give you protection when it is necessary.

- (a) The elbow length rubber gloves, STD-419
- (b) The filtering facepiece, STD-1136
- (c) The safety glasses, STD-1137
- (d) Disposable clothing, G02315

SUBTASK 38-32-00-610-005

- (4) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.

NOTE: After 5 minutes, drain the pre charge from the waste tank.

SUBTASK 38-32-00-860-010

- (5) Start this procedure at a toilet that is upstream of the vacuum waste line to be cleaned.

NOTE: Areas upstream of the bends have the most waste material build-up on the waste tube walls (TASK 38-32-00-910-802).

SUBTASK 38-32-00-160-001

- (6) If the toilet is full of waste, do these steps to remove the waste in the toilet bowl, if the waste system is serviceable:

- (a) Install a length of the 1.5 inch outside diameter flexible tubing, STD-1138, from a serviceable toilet to the blocked toilet.
- (b) Flush the serviceable toilet to drain the toilet bowl of the blocked toilet.
- (c) Make sure that the toilet bowl is empty.
- (d) If the toilet bowl is not empty, flush the serviceable toilet again.

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- (e) Remove the 1.5 inch outside diameter flexible tubing, STD-1138.

SUBTASK 38-32-00-160-002

- (7) Use 1 gal (4 l) to 3 gal (11 l) of the disinfectant that follows:

NOTE: The disinfectant mixture is a solution of chlorine dioxide, citric acid, and water.

- (a) Mix chlorine dioxide (stabilized 2%) Purogene or Oxine compound, G00022, and citric acid, B00637 (crystals or powder), as follows:

WARNING  DO NOT BREATHE CHLORINE DIOXIDE GAS. PUT ON A RESPIRATOR, AND GOGGLES. WHEN THE TWO CHEMICALS MIX, THEY MAKE CHLORINE DIOXIDE GAS. CHLORINE DIOXIDE GAS CAN CAUSE INJURIES TO PERSONNEL IF THEY BREATHE IT.

- 1) Mix 20 fl-oz (0.6 l) of chlorine dioxide Purogene or Oxine compound, G00022, with 2 oz (57 g) of citric acid, B00637 (per gallon of solution needed), in a clean plastic container.
 - 2) Stop for 5 minutes (activation period).
 - 3) Use a clean instrument to mix the solution fully.
 - 4) Add 1 gal (4 l) of water to the solution.
- (b) Flush 1 gal (4 l) to 3 gal (11 l) of the disinfectant solution into the waste line.

NOTE: The quantity of solution necessary to disinfect the vacuum toilet line changes with the length and condition of the line. Operator experience shows that 1 gal (4 l) is sufficient for short vacuum lines, but more than 1 gal (4 l) is necessary for longer vacuum lines. The quantity of disinfectant necessary for a specific vacuum toilet line is established by the operator's experience.

SUBTASK 38-32-00-010-012

- (8) To get access to the waste lines, do one of these steps:

- (a) To remove the toilet from the lavatory, do this task: Toilet Shroud Removal, TASK 38-32-01-000-834-002 or Toilet Shroud Removal, TASK 38-32-01-000-801-001 or Toilet Shroud Removal, TASK 38-32-01-000-843-003.

NOTE: The toilet assembly removal is necessary to do this procedure from the passenger compartment when you do not open the toilet flush valve.

LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464

- (b) To open the flush valve of the monogram toilet, do this task: Toilet Flush Valve - Open for Maintenance, TASK 38-32-00-980-801.

NOTE: If you open the flush valve, it is not necessary to do the toilet assembly removal. When you use this procedure, the bends of the hose will be more than if you remove the toilet.

LOM 404, 416, 426-431, 445, 461-463

- (c) To open the flush valve of the envirovac toilet, do the steps that follow:

NOTE: If you open the flush valve, it is not necessary to do the toilet assembly removal. When you use this procedure, the bends of the hose will be more than if you remove the toilet.

- 1) Do this task: Toilet Shroud Removal, TASK 38-32-01-000-834-002.
- 2) Get access to the power connector for the toilet assembly.
- 3) Push the toilet flush switch.

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LOM 404, 416, 426-431, 445, 461-463 (Continued)

- 4) When the toilet flush valve is open, disconnect the power connector for the toilet assembly.

LOM ALL

SUBTASK 38-32-00-010-036

- (9) To access the main lines to the tanks, do the steps that follow:

NOTE: The removal of the ceiling lining panels is necessary to do this procedure.

- (a) Do this task: Cargo Compartment Ceiling Liner - Removal, TASK 25-52-09-000-801.
- (b) Remove the cap on the cleanout port.

SUBTASK 38-32-00-010-055

- (10) To get access to the P91 panel, open this access panel:

Number Name/Location

117A	Electronic Equipment Access Door
------	----------------------------------

SUBTASK 38-32-00-860-011



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.

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

Power Distribution Panel Number 1, P91

Row	Col	Number	Name
C	11	C01388	VACUUM WASTE CONT
F	2	C01389	VACUUM WASTE BLOWER

SUBTASK 38-32-00-860-012

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

SUBTASK 38-32-00-930-001

- (13) Make a mark on the pressure washer hose, STD-1287, at approximately 4 ft (1.2 m) from the rotating pressure washer nozzle, STD-1288, and nozzle guide spring, STD-1289.

NOTE: This location is for the removal of the hose from the waste tube to keep the pressurized water out of the work area.

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H. Waste Line Cleaning

SUBTASK 38-32-00-170-002

- (1) Put the pressure washer hose, STD-1287, rotating pressure washer nozzle, STD-1288, or nozzle guide spring, STD-1289, of the pressure washer (1500 PSIG to 2500 PSIG), STD-1286, approximately 4 ft (1.2 m) into the waste line.

NOTE: The distance necessary for the nozzle to be put into the waste tube can be different for different manufacturers nozzles. The distance given is to make sure that no pressurized water goes into the work area during this operation.

SUBTASK 38-32-00-170-003



CAUTION

DO NOT USE A PRESSURE OF MORE THAN 2500 PSIG (17,237 KPA) WHEN YOU OPERATE THE PRESSURE WASHER EQUIPMENT. TOO MUCH PRESSURE CAN CAUSE DAMAGE TO THE WASTE SYSTEM EQUIPMENT.

- (2) Do the steps to operate the pressure washer (1500 PSIG to 2500 PSIG), STD-1286, as follows:
- One person must operate the pressure washer (1500 PSIG to 2500 PSIG), STD-1286, at the area you use to get access.
 - A second person is necessary at a different toilet to flush that toilet one time between 45 to 75 seconds.

NOTE: It is necessary to flush a toilet to operate the vacuum blower to move the fluids to the waste tank. You can monitor the tank level from the waste system gage on the aft attendant's panel. When the waste tank is full, the waste system automatically stops and the LAVS INOP light comes on. To prevent a fluid spill, you must stop the pressure washer when the waste system automatically stops. You must do the waste system servicing before you start the pressure washer after a full tank shutdown.
 - If the movement of the pressure washer hose, STD-1287, is not easy, put a small quantity of non-foaming dish soap on the hose.

NOTE: This is to lubricate the pressure washer hose, STD-1287, in the waste line.
 - Turn on the water.

NOTE: If it is available, use hot water.
 - Turn on the pressure washer (1500 PSIG to 2500 PSIG), STD-1286.
 - Slowly put the pressure washer hose, STD-1287, of the pressure washer (1500 PSIG to 2500 PSIG), STD-1286, into the waste line in approximately 2 ft (61 cm) increments.
 - Move the hose forward and then back, 3 or 4 times for the maximum effect in each of the 2 ft (61 cm) sections.
 - When you put all the pressure washer hose, STD-1287, into the waste line or the pressure washer nozzle, STD-1288, is at the waste tank, remove the pressure washer hose, STD-1287.

NOTE: Clean the hose while you remove it to prevent contamination of the work area of the airplane.
 - When the mark on the pressure washer hose, STD-1287, is in the work area, turn the water off.
 - Remove the pressure washer hose, STD-1287, pressure washer nozzle, STD-1288, and nozzle guide spring, STD-1289.

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SUBTASK 38-32-00-170-004

- (3) Stop the operation of the vacuum blower.

SUBTASK 38-32-00-170-005

- (4) Do this cleaning procedure again if it is necessary.

SUBTASK 38-32-00-170-006

- (5) Clean the work area.

I. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-00-410-010

- (1) Do one of these steps to close the access:

- (a) If you removed the toilet from the lavatory, do this task: Toilet Shroud Installation, TASK 38-32-01-400-834-002 or Toilet Shroud Installation, TASK 38-32-01-400-801-001 or Toilet Shroud Installation, TASK 38-32-01-400-843-003.
- (b) If you removed the cap on the cleanout port, do the steps that follow:
 - 1) Install the cleanout plug.
 - 2) Do this task: Cargo Compartment Ceiling Liner - Installation, TASK 25-52-09-400-801.

LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464

- (c) If you opened the flush valve of the monogram toilet, push the flush switch in the lavatory to close the flush valve.

LOM 404, 416, 426-431, 445, 461-463

- (d) If you opened the flush valve of the envirovac toilet, do the steps that follow:
 - 1) Connect the power connector for the toilet assembly.
 - 2) Push the toilet flush switch.
 - 3) Do this task: Toilet Shroud Installation, TASK 38-32-01-400-834-002.

LOM ALL

SUBTASK 38-32-00-610-006

- (2) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.

SUBTASK 38-32-00-610-007

- (3) Do this task: Vacuum Waste System - Leak Test, TASK 38-32-00-700-801.

SUBTASK 38-32-00-410-011

- (4) Close the access to the passenger compartment.

SUBTASK 38-32-00-410-040

- (5) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

———— END OF TASK ————

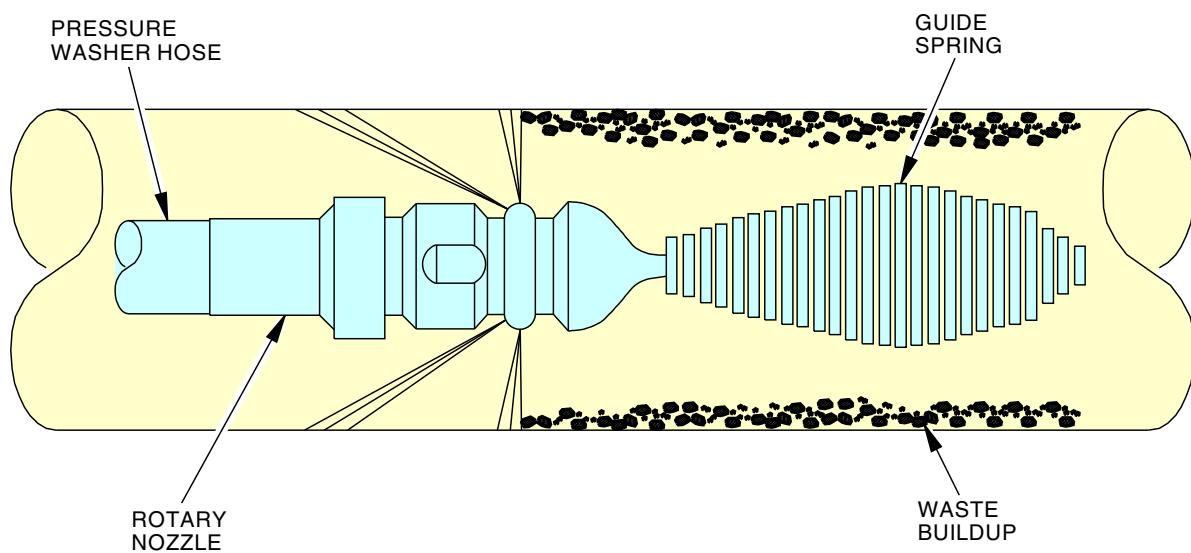


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Pressure Washer Cleaning
Figure 701/38-32-00-990-803

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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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TASK 38-32-00-100-803

4. Soak Method for Cleaning of the Vacuum Waste Lines

(Figure 702)

A. General

- (1) This procedure gives the instructions to clean the vacuum waste lines. Use this procedure to decrease the scale that collects in the vacuum waste lines.
- (2) To clean the vacuum waste lines using the soak method, you access at one of these locations:
 - (a) In the most forward lavatory for each vacuum waste line with the toilet assembly removed.
 - (b) At the last tube prior to the entry of the waste tank for each vacuum waste line to be cleaned with the appropriate sidewall or ceiling lining panel removed.

B. References

Reference	Title
05-51-57-000-802	Corrosion Removal After Acid Spills (P/B 201)
12-17-01-610-801	Waste Tank Servicing (P/B 301)
25-52-20-000-801	Waste Tank Enclosure Panel - Removal (P/B 401)
25-52-20-400-801	Waste Tank Enclosure Panel - Installation (P/B 401)
38-32-00-700-801	Vacuum Waste System - Leak Test (P/B 501)
38-32-00-910-801	Standard Practices for Work with the Toilet Waste and Equipment (P/B 201)
38-32-00-910-802	Waste Tube - Maintenance Practice (P/B 201)
38-32-01-000-805-001	Vacuum Toilet Assembly Removal (P/B 401)
38-32-01-000-838-002	Vacuum Toilet Assembly Removal (P/B 401)
38-32-01-000-844-003	Vacuum Toilet Assembly Removal (P/B 401)
38-32-01-400-805-001	Vacuum Toilet Assembly Installation (P/B 401)
38-32-01-400-838-002	Vacuum Toilet Assembly Installation (P/B 401)
38-32-01-400-844-003	Vacuum Toilet Assembly Installation (P/B 401)

C. Tools/Equipment

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

Reference	Description
SPL-1953	Equipment - Pump, Static Soak, Vacuum Lav. System Part #: A38012-39 Supplier: 81205 Opt Part #: A38012-1 Supplier: 81205 Opt Part #: A38012-31 Supplier: 81205
STD-77	Air Source, Regulated - Dry Filtered, 0-50 psig
STD-419	Gloves - Rubber, Elbow Length
STD-1056	Container - Solvent Resistant, 5 Gallon (19 Liter)
STD-1136	Facepiece (Mask) - Particulate Filtering, Disposable (NIOSH N95 approved)
STD-1137	Glasses - Safety
STD-1439	Container - Drum, 55 Gallon (208 Liter)
STD-3926	Water Source - Cold, Regulated, 0 to 60 PSIG

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(Continued)

Reference	Description
STD-6928	Coupler Sleeve - AS1654T32
STD-6930	Coupling - AS1655A32

D. Consumable Materials

Reference	Description	Specification
B00046	Acid - Corrosion Removing, Metal Conditioning, Phosphoric	MIL-C-10578
B00636	Acid, Acetic (Vinegar) (5%-10% Acetic Acid)	Commercially available product
B00637	Acid, Citric	A-A-59147
B00638	Cleaner - Acidic Liquid - Honey Bee 60 (McGean-Rohco)	
B01021	Cleaner - Drain (Enzyme) - Dispoz-All	
B01022	Cleaner - enzyme septic	
B50091	Cleaner - Gly-Vak Toilet Line Scale Remover	AMS 1550B
B50273	Cleaner - Acidic Liquid, Vacuum Toilet Line	AMS 1640
	Cleaner - Sani-Vak G3	
B50329	Cleaner - Acidic Liquid - Honey Bee 60 T	
B50330	Cleaner - Acidic Liquid - Honey Bee 60 TNP	
D00627 [P06-002]	Lubricant - White Petrolatum	PMC 9609
G00022	Compound - Chlorine Dioxide For Water Purification - Purogene or Oxine	
G02315	Clothing - Disposable Gown, Gloves For Sewage Handling	

E. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
141	Aft Cargo Compartment - Left
200	Upper Half of Fuselage

F. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

G. Prepare for Cleaning

SUBTASK 38-32-00-010-024

- (1) Get access to the passenger compartment.

SUBTASK 38-32-00-010-025

- (2) Do this task: Standard Practices for Work with the Toilet Waste and Equipment, TASK 38-32-00-910-801.

SUBTASK 38-32-00-910-014

- (3) For the work on the waste equipment, make sure that you wear these items for your protection.

NOTE: These are items that you can wear to give you protection when it is necessary.

(a) The elbow length rubber gloves, STD-419

(b) The filtering facepiece, STD-1136

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- (c) The safety glasses, STD-1137
- (d) Disposable clothing, G02315.

SUBTASK 38-32-00-610-017

- (4) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.

NOTE: After 5 minutes, drain the precharge from the waste tank.

SUBTASK 38-32-00-860-044

- (5) Start this procedure at the most forward toilet of the vacuum waste line to be cleaned.

NOTE: Areas upstream of the bends have the most waste material build-up on the waste tube walls (TASK 38-32-00-910-802).

SUBTASK 38-32-00-160-012

- (6) Use 1 gal (4 l) - 3 gal (11 l) of the disinfectant that follows:

NOTE: The disinfectant is a solution of chlorine, citric acid, and water.

- (a) Flush the waste line with a chlorine mixture made of chlorine dioxide (stabilized 2%) Purogene or Oxine compound, G00022, and citric acid, B00637 (crystals or powder), as follows:



WARNING DO NOT BREATHE CHLORINE DIOXIDE GAS. PUT ON A RESPIRATOR, AND GOGGLES. WHEN THE TWO CHEMICALS MIX, THEY MAKE CHLORINE DIOXIDE GAS. CHLORINE DIOXIDE GAS CAN CAUSE INJURIES TO PERSONNEL IF THEY BREATHE IT.

- 1) For each 1 gal (4 l) of disinfectant solution desired, mix 20 fl-oz (0.6 l) of chlorine dioxide Purogene or Oxine compound, G00022, with 2 fl-oz (0.06 l) of citric acid, B00637, in a plastic container.
- 2) Stop for 5 minutes (activation period).
- 3) Use a clean instrument to mix the solution fully.
- 4) Add water to make the desired quantity of solution.
- 5) Flush 1 gal (4 l) - 3 gal (11 l) of the disinfectant solution into the waste line.

NOTE: The quantity of solution necessary to disinfect the vacuum toilet line changes with the length and condition of the line. Operator experience shows that 1 gal (4 l) is sufficient for short vacuum lines, but more than 1 gal (4 l) is necessary for longer vacuum lines. The quantity of disinfectant necessary for a specific vacuum toilet line is established by the operator's experience.

SUBTASK 38-32-00-160-013

- (7) Do this task: Periodic Flush - Vacuum Waste System Cleaning, TASK 38-32-00-100-801.

- (a) Rinse the lines from the most forward toilet with approximately ½ gal (2 l) of water.
- (b) Turn the water off to the toilet.
 - 1) Set the water shutoff valve for the lavatory to the FAUCET ONLY position.
- (c) Flush the toilet without water at least three times.
- (d) To get access to the P91 panel, open this access panel:

Number **Name/Location**

117A Electronic Equipment Access Door

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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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT
F	2	C01389	VACUUM WASTE BLOWER

SUBTASK 38-32-00-010-026

- (8) Do these steps to get access to the waste lines that should be cleaned:

- (a) To remove the waste tank enclosure, do this task: Waste Tank Enclosure Panel - Removal, TASK 25-52-20-000-801.



CAUTION

USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (b) Disconnect the last waste tube [1] section before the waste tank inlet.

NOTE: This is the waste line section that will be temporarily replaced by the pump static soak pump equipment, SPL-1953, during the procedure. Make sure that the tool will fit in its place. If not, a section of waste line upstream will need to be chosen.

- 1) Remove the waste tube [1] from its installed position, and connect the assembled drain valve [3] and flexible hose [16] to the airplane vacuum waste line, with the sleeve, STD-6928, and coupling, STD-6930, as necessary.

NOTE: Remaining liquid can stay in the waste lines. Be prepared to collect and then discard all of the liquid.

- 2) Make sure that the drain valve [3] is closed.

a) If the drain valve is open, the pressure test that follows will be bad.

- (c) For all lavatories on the waste line to be cleaned, do this task: Vacuum Toilet Assembly Removal, TASK 38-32-01-000-838-002 or Vacuum Toilet Assembly Removal, TASK 38-32-01-000-805-001 or Vacuum Toilet Assembly Removal, TASK 38-32-01-000-844-003.

NOTE: The toilet assembly removal is necessary to attach the tools for the pressure test and the drain/flush equipment.

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H. Pressure Test Before Cleaning

SUBTASK 38-32-00-780-008

- (1) Do this task: Pressure Test Procedure, TASK 38-32-00-780-803.

NOTE: This test is necessary to make sure that the waste lines are water tight. If the waste line is not water tight, a leak of the cleaner solution on the airplane structure can occur.

I. Waste Line Cleaning

SUBTASK 38-32-00-110-002

- (1) Prepare the chemical solution to soak the waste line with one of the chemical cleaners that follow:

NOTE: The quantity of the cleaner necessary for a waste line is 0.16 gallons for each linear foot (2.0 liters for each linear meter). Calculate the maximum quantity of the cleaner necessary for each line to prevent a spill when you fill the waste line.

- (a) Honey Bee 60 cleaner, B00638, Honey Bee 60 T cleaner, B50329, or Honey Bee 60 TNP cleaner, B50330
- (b) 5 to 10% Acetic acid, B00636
- (c) 7% Phosphoric acid, B00046
- (d) Dispoz-All cleaner, B01021
- (e) enzyme septic cleaner, B01022
- (f) Sani-Vak G3, B50273
- (g) Gly-Vak toilet line scale remover, B50091.

SUBTASK 38-32-00-170-007

- (2) Do these steps to fill the waste line with the cleaner solution:

- (a) Assemble the static soak pump equipment, SPL-1953.

NOTE: This procedure is used to clean only one waste line at a time. Refer to Figure 702 for tool installation schematic.

- 1) At the forward most toilet waste connection [10], connect the flush plug assembly [18] and air pressure assembly [8] (View F, Figure 702).
 - a) Do these steps if the coupling between the static soak pump equipment, SPL-1953, and toilet waste connection [10] is male-male configuration:
 - <1> Make sure that all the parts of the clamshell coupling are clean.
 - <2> Install the clamshell coupling.
 - <3> Apply a thin layer of lubricant, D00627 [P06-002], or MIL-L-4343, on the inner surface of the sleeve.
 - <4> Install one new O-ring on each ferrule.
 - <5> Make sure that the ends between two adjacent tubing flanges that connect at the clamshell coupling are 0.11 in. (2.79 mm) to 0.17 in. (4.32 mm) apart.
 - <6> Move the sleeve to the center of the clamshell coupling.
 - <7> Push each latch down.
 - <8> Make sure that each latch is on tight.
 - <9> Visually examine the latches to make sure that they are at the same level.

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- 2) Connect the overflow hose [13] and shutoff valve [14] at the quick-disconnect [15].
- 3) Put the end of the overflow hose [13] in a solvent resistant container (5 gal)(19 Liter), STD-1056, to contain all possible flow of the cleaner solution into the work area in the airplane.
- 4) Connect an air hose [11] to the brass nipple on the air pressure assembly [8].
- 5) In each lavatory between the most forward toilet and waste tank, make sure that the plug assembly [17] is installed in place of the toilet assembly.
- 6) Make sure that the flexible hose [16] and drain valve [3] is connected to the waste line, at the clamp where the segment was removed (View D, Figure 702).
- 7) Connect one end of the supply hose [4] to the drain valve [3] at the quick-disconnect [2].
- 8) Open the drain valve [3].
- 9) Connect the other end of the supply hose [4] with the shutoff valves [5] and quick-disconnects and connect to the drum pump [6] (View E, Figure 702).
- 10) Connect an air hose [7] to the air motor on the drum pump [6].
- 11) Place the drum pump [6] in a 55 gallon (208 liter) drum container, STD-1439, full of the cleaner solution.



MAKES SURE THAT THE PERSON WITH THE EQUIPMENT TO PREVENT LEAKAGE (RAGS, ETC), HAS ACCESS TO EACH LAVATORY IN THE WASTE SYSTEM THAT YOU FILL. MAKE SURE THAT THERE IS NO LEAKAGE OF THE CLEANER SOLUTION FROM THE WASTE SYSTEM INTO THE LAVATORY DURING THIS PROCEDURE. LEAKAGE OF CHEMICAL SOLUTIONS CAN CAUSE DAMAGE TO THE INTERIOR OF THE AIRCRAFT.

- (b) Turn on the drum pump [6] to fill the waste lines with the cleaner solution slowly, to prevent leakage in the lavatories.

NOTE: When you smell some of the chemical solutions, they can cause persons to be offended while in the airplane. It can be necessary to supply temporary air removal equipment.

- 1) If you spill the cleaning solution, do this task: Corrosion Removal After Acid Spills, TASK 05-51-57-000-802.
- (c) Fill the waste line until you see the chemical solution in the overflow hose [13] at the lavatory end of the line.
- (d) Stop the drum pump [6].
- NOTE:** The level of the solution in the waste system can decrease and then adjust after a short time.
- (e) Continue to fill the waste line until you see the chemical solution in the overflow hose [13] at the most forward lavatory.
- (f) Close the drain valve [3] on the waste line at the cargo compartment.
- (g) Close all of the valves on the adapters but open the shutoff valve [14] at the most forward lavatory.

NOTE: The most forward point of the waste line must stay open to let all gases come out of the line. The open valve will prevent pressurization and leakage of the system.

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- (h) Make sure that you put the overflow hose [13] in the most forward lavatory in the solvent resistant container (5 gal)(19 Liter), STD-1056, to prevent leakage into the airplane.
- NOTE: It is necessary to empty the container before the cleaner solution flows into the work area in the airplane.
- (i) Close the drain valve [3] in the aft cargo compartment, and then disconnect the supply hose [4].
- (j) To soak one of the other waste lines, do these steps:
- 1) Connect the supply hose [4] to a different 2 in. (51 mm) adapter on the other waste line.
 - 2) Connect the supply hose [4] to the other waste line.
- NOTE: If you use more than one set of tools, other waste lines can be soaked at the same time.
- 3) Use these steps to fill the other waste line(s).

SUBTASK 38-32-00-170-008

- (3) Let the cleaner solution stay in the waste line(s) for a minimum of 8 hours.

NOTE: To fully clean the waste line(s), more than 24 hours can be necessary to remove the heavy scale. The longer the cleaner is in the waste lines, the better the cleaning results. The length of time is established by the operator's experience.

NOTE: Gases are released during the chemical effect of the cleaner solution and the scale. Do a check of the container at regular times to prevent flow of the cleaner solution in the airplane.

J. Drain the Waste Line

SUBTASK 38-32-00-680-001

- (1) Do these steps to drain the chemical solution from the system:
- (a) Prepare to collect (for disposal) all of the chemical solution and water used to flush the system in the waste lines.
 - (b) Make sure that you attach the supply hose [4] to the waste line to be drained.
 - (c) Connect the shutoff valve [19] to the drain end assembly [20] on the 55 gallon (208 liter) drum container, STD-1439, to hold used chemical solution.
 - (d) Open the drain valve [3] used to fill the waste line.
 - (e) Open the shutoff valve [19] in the hose at the container to drain the waste line.
 - (f) Open the pressure regulator [9] valve installed on the most forward toilet to let the air into the waste line.
 - (g) To flush the waste line, do the steps that follow:
 - 1) Connect a 0 to 60 PSIG regulated cold water source, STD-3926, to the water supply assembly [41].
 - 2) Connect the water supply assembly [41] to the flush plug assembly [18].
 - 3) Flush the waste line with a minimum of 5 gal (19 l) of water for each toilet on the waste line.
 - 4) Connect an regulated air source, STD-77, to the pressure regulator [9].
 - 5) Dry the waste line with air flow, under 15 psi (103 kPa), for approximately 5 minutes.
- (h) Stop until the cleaner solution/water is fully drained from the waste line.
- (i) If it is necessary to drain other waste lines, do these steps again to drain waste lines.

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SUBTASK 38-32-00-860-045

- (2) Do these steps to remove the tools:

- (a) In the most forward lavatory, remove the air pressure assembly [8] and flush plug assembly [18].
- (b) In each lavatory between the most forward toilet and waste tank, remove the plug assemblies [17].
- (c) Do this task: Vacuum Toilet Assembly Installation, TASK 38-32-01-400-838-002 or Vacuum Toilet Assembly Installation, TASK 38-32-01-400-805-001 or Vacuum Toilet Assembly Installation, TASK 38-32-01-400-844-003.
- (d) Disconnect the drum pump [6] from the supply hose [4].

NOTE: Remaining liquid can stay in the waste lines. Be prepared to collect and then discard all of the liquid.

- (e) In the aft cargo compartment, disconnect the flexible hose [16] and drain valve [3] from the waste line, at the clamp where the segment was removed.
- (f) Make sure that all solid material is out of the waste line before you connect the waste line to the waste tank.

NOTE: Remaining solid material in the waste lines can cause blocked waste lines after you complete this procedure.

- (g) Put the waste tube in its installed position.
- (h) At the waste connection on the top of the waste tank, connect the first waste tube [1] to the waste tank inlet of the line that was cleaned.

NOTE: Repeat this procedure for each line to be cleaned.

K. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-00-410-017

- (1) Do these steps to complete this task:



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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.

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

Power Distribution Panel Number 1, P91

Row	Col	Number	Name
C	11	C01388	VACUUM WASTE CONT
F	2	C01389	VACUUM WASTE BLOWER

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SUBTASK 38-32-00-410-041

- (2) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-32-00-610-018

- (3) To push other solid material out of the waste system, do this task: Periodic Flush - Vacuum Waste System Cleaning, TASK 38-32-00-100-801.

SUBTASK 38-32-00-610-019

- (4) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.

SUBTASK 38-32-00-610-020

- (5) Do this task: Vacuum Waste System - Leak Test, TASK 38-32-00-700-801.

SUBTASK 38-32-00-860-051

- (6) Do this task: Waste Tank Enclosure Panel - Installation, TASK 25-52-20-400-801.

SUBTASK 38-32-00-410-018

- (7) Close the access to the passenger compartment.

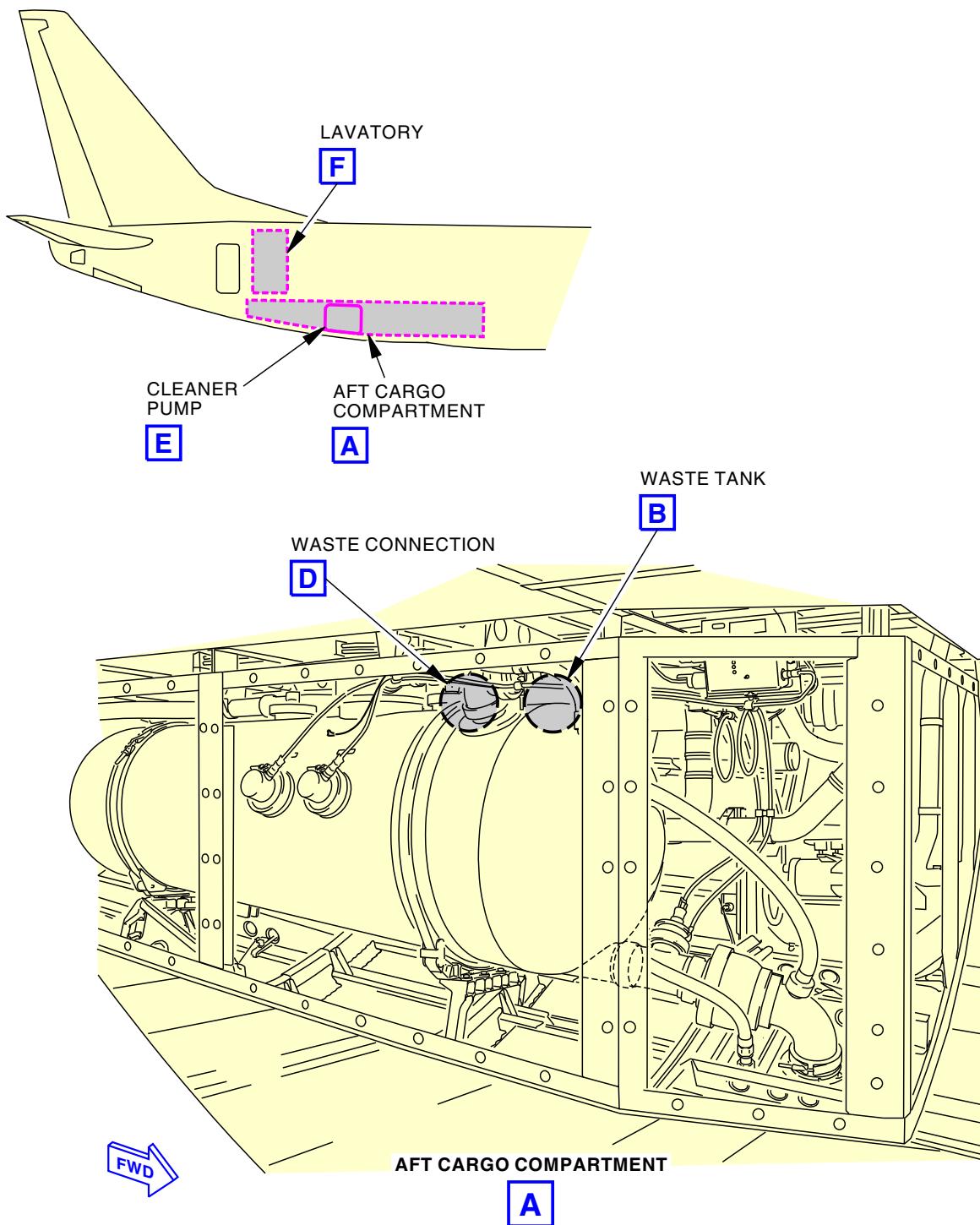
SUBTASK 38-32-00-910-015

- (8) Obey the local authorities to discard the chemical solution.

———— END OF TASK ————

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Soak Waste Line Cleaning
Figure 702/38-32-00-990-812 (Sheet 1 of 5)

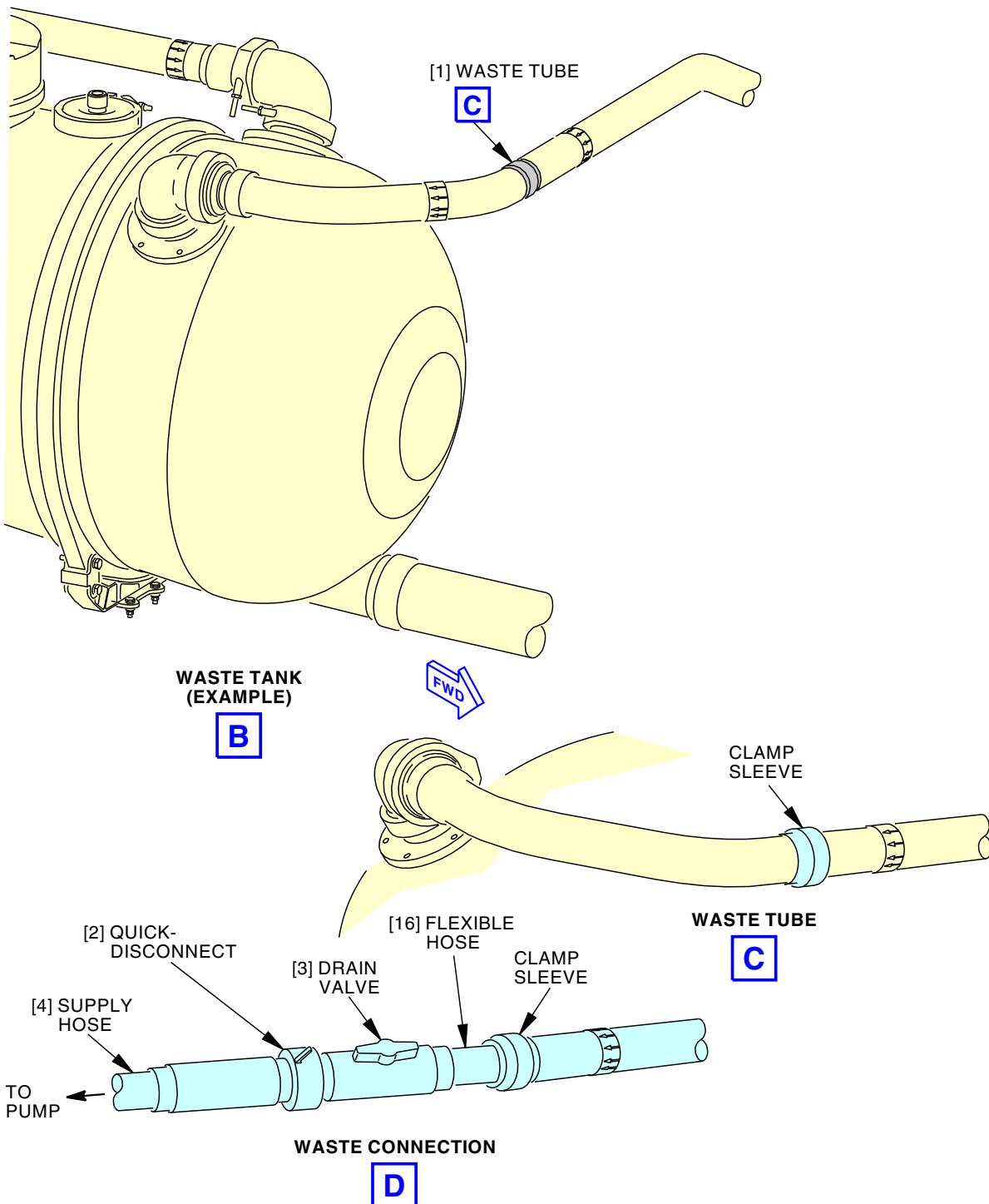
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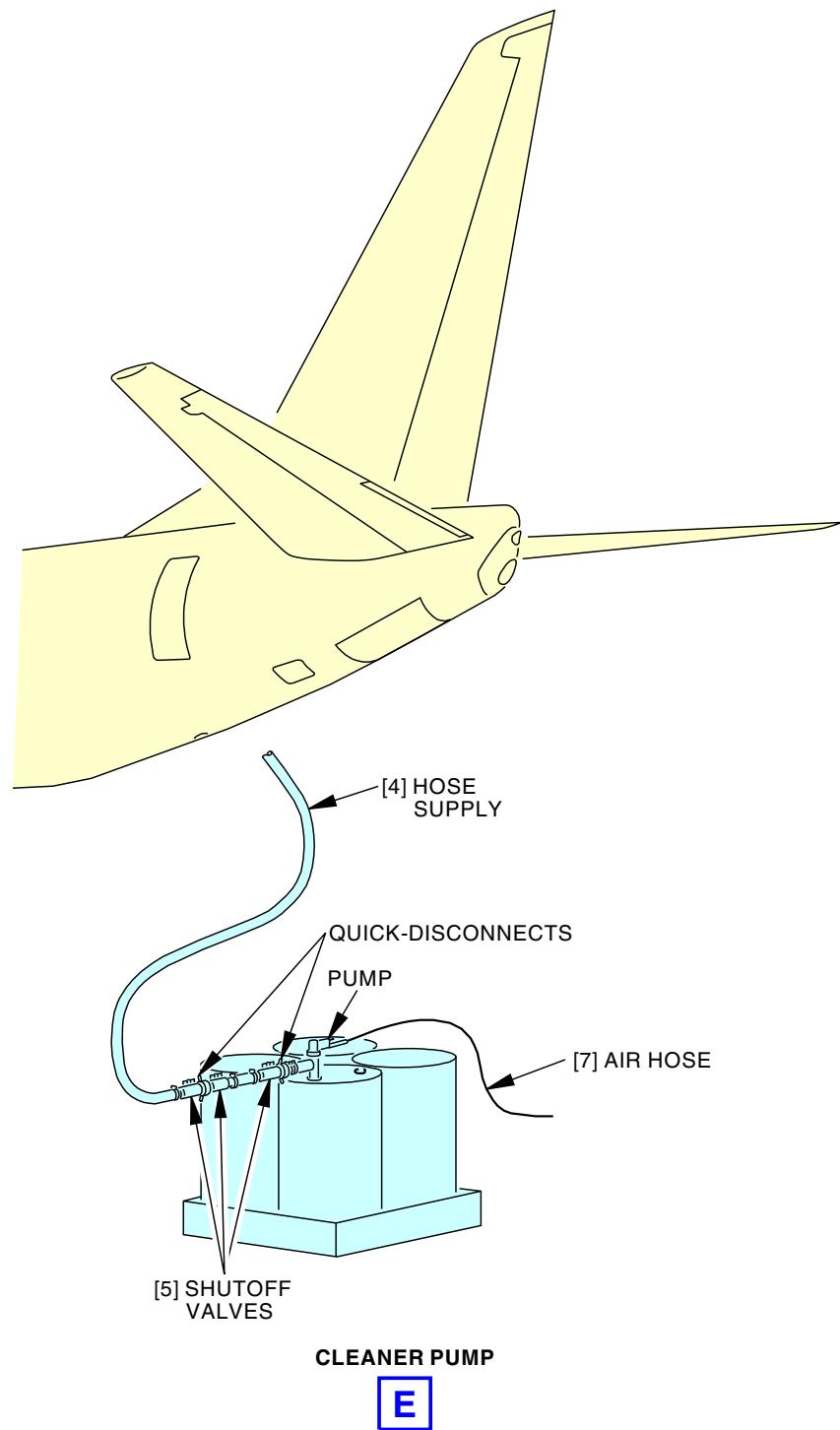
Soak Waste Line Cleaning
Figure 702/38-32-00-990-812 (Sheet 2 of 5)

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Soak Waste Line Cleaning
Figure 702/38-32-00-990-812 (Sheet 3 of 5)

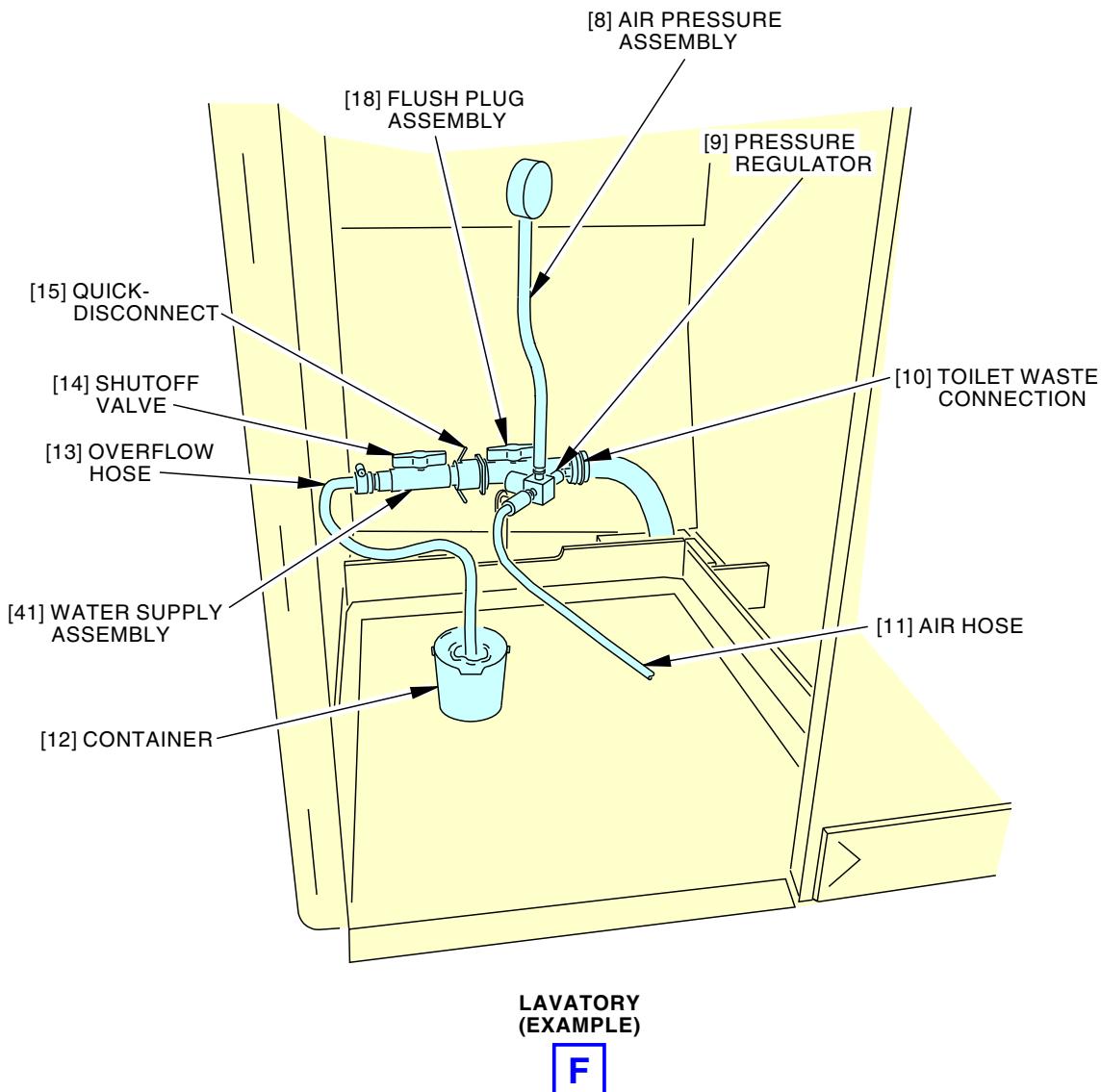
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Soak Waste Line Cleaning
Figure 702/38-32-00-990-812 (Sheet 4 of 5)

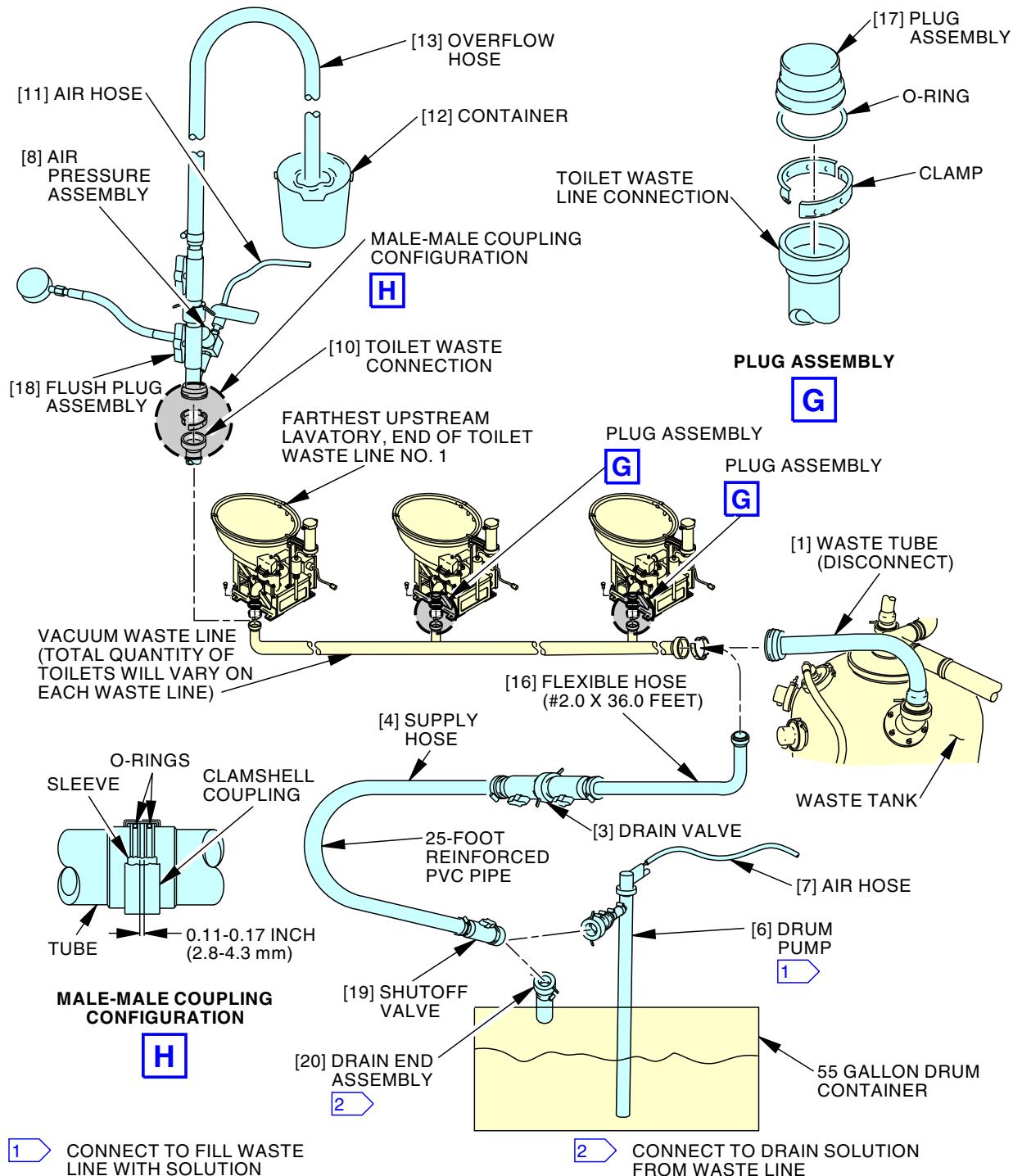
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Soak Waste Line Cleaning
Figure 702/38-32-00-990-812 (Sheet 5 of 5)



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TASK 38-32-00-110-801

5. Recirculate Method of Cleaning the Vacuum Waste Lines

(Figure 703)

A. General

- (1) This procedure gives the instructions to clean the vacuum waste tubes. Use this procedure to decrease the scale that collects in the vacuum waste tubes.
- (2) One set of tools can connect two waste lines and clean separately the toilet systems. Additional tool sets let you clean the different toilet systems at the same time.
- (3) To clean the vacuum waste lines with the recirculate method, you must get access at these locations:
 - (a) In the lavatory with the toilet assembly removed.
 - (b) If it is necessary, remove the waste tank enclosure panel to get access to the waste tube inlets to the waste tanks.

B. References

Reference	Title
05-51-57-000-802	Corrosion Removal After Acid Spills (P/B 201)
12-17-01-610-801	Waste Tank Servicing (P/B 301)
25-52-20-000-801	Waste Tank Enclosure Panel - Removal (P/B 401)
25-52-20-400-801	Waste Tank Enclosure Panel - Installation (P/B 401)
38-32-00-700-801	Vacuum Waste System - Leak Test (P/B 501)
38-32-00-910-801	Standard Practices for Work with the Toilet Waste and Equipment (P/B 201)
38-32-00-910-802	Waste Tube - Maintenance Practice (P/B 201)
38-32-01-000-805-001	Vacuum Toilet Assembly Removal (P/B 401)
38-32-01-000-838-002	Vacuum Toilet Assembly Removal (P/B 401)
38-32-01-000-844-003	Vacuum Toilet Assembly Removal (P/B 401)
38-32-01-400-805-001	Vacuum Toilet Assembly Installation (P/B 401)
38-32-01-400-838-002	Vacuum Toilet Assembly Installation (P/B 401)
38-32-01-400-844-003	Vacuum Toilet Assembly Installation (P/B 401)

C. Tools/Equipment

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

Reference	Description
SPL-4780	Pump Equipment - Vacuum Lav System Part #: A38012-40 Supplier: 81205 Opt Part #: A38012-18 Supplier: 81205 Opt Part #: A38012-32 Supplier: 81205
STD-77	Air Source, Regulated - Dry Filtered, 0-50 psig
STD-419	Gloves - Rubber, Elbow Length
STD-1136	Facepiece (Mask) - Particulate Filtering, Disposable (NIOSH N95 approved)
STD-1137	Glasses - Safety
STD-3901	Container - Hydraulic Fluid Resistant, 50 Gallon (190 l)

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(Continued)

Reference	Description
STD-3910	Container - Plastic
STD-3926	Water Source - Cold, Regulated, 0 to 60 PSIG
STD-6928	Coupler Sleeve - AS1654T32
STD-6930	Coupling - AS1655A32

D. Consumable Materials

Reference	Description	Specification
B00046	Acid - Corrosion Removing, Metal Conditioning, Phosphoric	MIL-C-10578
B00636	Acid, Acetic (Vinegar) (5%-10% Acetic Acid)	Commercially available product
B00637	Acid, Citric	A-A-59147
B00638	Cleaner - Acidic Liquid - Honey Bee 60 (McGean-Rohco)	
B01021	Cleaner - Drain (Enzyme) - Dispoz-All	
B01022	Cleaner - enzyme septic	
B50273	Cleaner - Acidic Liquid, Vacuum Toilet Line	AMS 1640
	Cleaner - Sani-Vak G3	
B50329	Cleaner - Acidic Liquid - Honey Bee 60 T	
B50330	Cleaner - Acidic Liquid - Honey Bee 60 TNP	
D50007	Grease - Silicone-Based, Generic	
G00022	Compound - Chlorine Dioxide For Water Purification - Purogene or Oxine	
G02315	Clothing - Disposable Gown, Gloves For Sewage Handling	

E. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
141	Aft Cargo Compartment - Left
200	Upper Half of Fuselage

F. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

G. Prepare for the Cleaning

SUBTASK 38-32-00-010-028

- (1) Get access to the passenger compartment.

SUBTASK 38-32-00-010-029

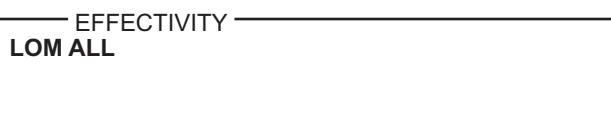
- (2) Do this task: Standard Practices for Work with the Toilet Waste and Equipment, TASK 38-32-00-910-801.

SUBTASK 38-32-00-910-017

- (3) For the work on the waste equipment, make sure that you wear these items for protection:

NOTE: These items give protection when it is necessary.

- (a) The elbow length rubber gloves, STD-419



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- (b) The filtering facepiece, STD-1136
- (c) The safety glasses, STD-1137
- (d) Disposable clothing, G02315.

SUBTASK 38-32-00-610-023

- (4) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.
 - (a) After 5 minutes, drain the precharge from the waste tank.

SUBTASK 38-32-00-860-047

- (5) Start this procedure at the toilet that is farthest upstream of the vacuum waste line to be cleaned.

NOTE: Areas near the bends have the most waste material build-up on the waste tube walls.
For the primary layout of the vacuum waste lines, do this task: Waste Tube - Maintenance Practice, TASK 38-32-00-910-802.

SUBTASK 38-32-00-160-014

- (6) Disinfect the waste lines as follows:

NOTE: The disinfectant is a solution of chlorine dioxide, citric acid, and water.

- (a) Flush the waste line with a chlorine mixture made of chlorine dioxide (stabilized 2%) Purogene or Oxine compound, G00022, and citric acid, B00637 (crystals or powder), from the toilet farthest from the waste tank on the waste line being cleaned, as follows:



WARNING

DO NOT BREATHE CHLORINE DIOXIDE GAS. PUT ON A RESPIRATOR, AND GOGGLES. WHEN THE TWO CHEMICALS MIX, THEY MAKE CHLORINE DIOXIDE GAS. CHLORINE DIOXIDE GAS CAN CAUSE INJURIES TO PERSONNEL IF THEY BREATHE IT.

- 1) For each 1 gal (4 l) of final solution, mix 20 fl-oz (0.6 l) of chlorine dioxide Purogene or Oxine compound, G00022, with 2 oz (57 g) of citric acid, B00637, in a container, STD-3910.
- 2) Stop for 5 minutes (activation period).
- 3) Use a clean instrument to mix the solution fully.
- 4) Add water to make the desired quantity of solution.
- 5) Flush 1 gal (4 l) - 3 gal (11 l) of the disinfectant solution into the waste line.

NOTE: The quantity of solution necessary to disinfect the vacuum toilet line changes with the length and condition of the line. Operator experience shows that 1 gal (4 l) is sufficient for short vacuum lines, but more than 1 gal (4 l) is necessary for longer vacuum lines. The quantity of disinfectant necessary for a specific vacuum toilet line is established by the operator's experience.

SUBTASK 38-32-00-160-015

- (7) Do this task: Periodic Flush - Vacuum Waste System Cleaning, TASK 38-32-00-100-801.
 - (a) Rinse the lines from the most forward toilet with approximately ½ gal (2 l) of water.
 - (b) Turn the water off to the toilet.
 - (c) Set the water shutoff valve for the lavatory to the FAUCET ONLY position.
 - (d) Flush the toilet without water at least three times.

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- (e) To get access to the P91 panel, open this access panel:

Number Name/Location

117A Electronic Equipment Access Door



WARNING

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WARNING

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

Power Distribution Panel Number 1, P91

Row	Col	Number	Name
C	11	C01388	VACUUM WASTE CONT
F	2	C01389	VACUUM WASTE BLOWER

SUBTASK 38-32-00-010-030

- (8) Do these steps to get access to the waste lines that should be cleaned:

- (a) To remove the waste tank enclosure, do this task: Waste Tank Enclosure Panel - Removal, TASK 25-52-20-000-801.



CAUTION

USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (b) For both lines, disconnect the last sections of the waste tubes [21] with the waste tank inlets [71] from the waste tank.
- 1) Remove the V-band couplings [72] to disconnect the waste tank inlets [71] from the waste tank.
 - 2) Remove the O-rings [73] between the waste tank inlets [71] and waste tank.
- (c) Replace the waste line section with the vacuum lav system pump equipment, SPL-4780.
- 1) Make sure that the vacuum lav system pump equipment, SPL-4780, holds in the position.
 - a) If the vacuum lav system pump equipment, SPL-4780, is not in its position, replace the upstream section of waste.
- (d) Remove the waste tubes and connect the drain valves [23] to the airplane waste lines.
- 1) If it is necessary, use the coupling, STD-6930, and sleeve, STD-6928.
- NOTE: Remaining liquid can stay in the waste lines. Prepare to collect and then discard all of the liquid.

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- (e) Close the drain valves [23].

NOTE: If the drain valves [23] are open, the pressure test that follows will be bad.

- (f) Do this task: Vacuum Toilet Assembly Removal, TASK 38-32-01-000-838-002 or Vacuum Toilet Assembly Removal, TASK 38-32-01-000-805-001 or Vacuum Toilet Assembly Removal, TASK 38-32-01-000-844-003.

NOTE: The toilet assembly removal is necessary to attach the tools for the pressure test and the drain/flush equipment.

SUBTASK 38-32-00-780-010

- (9) Do this task: Pressure Test Procedure, TASK 38-32-00-780-803.

H. Waste Line Cleaning

SUBTASK 38-32-00-840-001

- (1) Prepare the chemical solution to clean the waste line with one of the chemical cleaners that follows:

NOTE: The quantity of the cleaner necessary for a waste line is 0.16 gallons for each linear foot (2.0 liters for each linear meter). Calculate the maximum quantity of the cleaner necessary for each line to prevent a spill when you fill the waste line.

- (a) Honey Bee 60 cleaner, B00638, Honey Bee 60 T cleaner, B50329, or Honey Bee 60 TNP cleaner, B50330
- (b) 5 to 10% Acetic acid, B00636
- (c) 7% Phosphoric acid, B00046
- (d) Dispoz-All cleaner, B01021
- (e) enzyme septic cleaner, B01022
- (f) Sani-Vak G3, B50273.

SUBTASK 38-32-00-110-003



CAUTION
DO NOT LET THE CLEANING SOLUTION LEAK FROM THE WASTE SYSTEM INTO THE AIRPLANE. MAKE SURE THAT A PERSON WITH SPILLAGE-PREVENTION EQUIPMENT HAS ACCESS TO EACH LAVATORY THAT IS CONNECTED TO THE WASTE LINE. THE CLEANING SOLUTION CAN CAUSE DAMAGE TO THE AIRPLANE STRUCTURE.

- (2) Do these steps to connect the vacuum lav system pump equipment, SPL-4780, to fill the waste lines with the cleaner solution (View H, Figure 703):

NOTE: Use this procedure to clean two lines of waste at the same time, designate a waste line #1 and waste line #2 to help clarify tool usage.

- (a) Connect one end of the supply hose [24] to the quick-disconnect [22] on the drain valve [23] near the waste tank.
 - 1) Install straps or blocking to hold the waste line connection.
 - a) Make sure that waste line in its position to prevent the leak on the floor.
- (b) Connect the other end of the supply hose [24] to the air pump [25] at the quick-disconnect [26].
- (c) On the other waste line, connect one end of the drain hose [29] to the quick-disconnect [22] on the drain valve [23] near the waste tank.
- (d) Connect the other end of the drain hose [29] to the drain end assembly [39].

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- (e) Put the hose end into the 50 Gallon (190 l) hydraulic fluid resistant container, STD-3901, of solution.
NOTE: Put a sufficient amount of the drain hose into the container to prevent the drop out of the drain hose during the air pump [25] operates.
- (f) In each lavatory between the farthest upstream toilet and the waste tank make sure that a flush plug assembly [38] is installed in place of the toilet assembly.
 - 1) Make sure that the bleed valve on each plug assembly [38] is closed.
- (g) At the forward most lavatory of waste line #1 install the air pressure assembly [30] and flush plug valve [32] on the toilet waste connection [31].
- (h) At the forward most lavatory of waste line #2, install the flush plug valve [32] at the toilet waste connection [36].
- (i) Connect the jumper hose valves [34] and jumper hose [35] at the quick-disconnects [33] to join the two waste lines.
- (j) Connect the air hose [37] to the brass nipple on the air pressure assembly [30].
- (k) Open all the valves on the hoses and on the drain valves [23].



MAKE SURE THAT THE PERSON WITH THE EQUIPMENT TO PREVENT LEAKAGE (RAGS, ETC), HAS ACCESS TO EACH LAVATORY IN THE WASTE SYSTEM THAT YOU FILL. MAKE SURE THAT THERE IS NO LEAKAGE OF THE CLEANER SOLUTION FROM THE WASTE SYSTEM INTO THE LAVATORY DURING THIS PROCEDURE. LEAKAGE OF CHEMICAL SOLUTIONS CAN CAUSE DAMAGE TO THE INTERIOR OF THE AIRCRAFT.

- (l) Put the air pump [25] intake into the container of solution and turn the pump on to fill the waste lines.
NOTE: It can take 3 to 4 minutes before the solution starts to come down the drain hose [29]. It can take more than an hour for all of the air to exit the lines.
- (m) Slowly open the bleed valve in the waste line plug assembly [38] in each of the lavatories to bleed air from the toilet waste lines
- (n) Close the bleed valve when you hear or see solution start to come through the valve.

SUBTASK 38-32-00-110-004



MAKE SURE THAT THE PERSON WITH THE EQUIPMENT TO PREVENT LEAKAGE (RAGS, ETC), HAS ACCESS TO EACH LAVATORY IN THE WASTE SYSTEM THAT YOU FILL. MAKE SURE THAT THERE IS NO LEAKAGE OF THE CLEANER SOLUTION FROM THE WASTE SYSTEM INTO THE LAVATORY DURING THIS PROCEDURE. LEAKAGE OF CHEMICAL SOLUTIONS CAN CAUSE DAMAGE TO THE INTERIOR OF THE AIRCRAFT.

- (3) Let the cleaner solution circulate in the waste line(s) for as long as practical (a minimum of 8 hours is suggested).
NOTE: To fully clean the waste line(s), more than 24 hours can be necessary to remove the heavy scale. The longer you leave the cleaner in the waste lines, the better the results. The length of time is established by the operators experience.
- (a) If you spill the cleaning solution, do this task: Corrosion Removal After Acid Spills, TASK 05-51-57-000-802.

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SUBTASK 38-32-00-860-048

- (4) To get cleaner lines and to prevent blockage by scale material you can reverse the flow of the solution during the procedure.
 - (a) Turn off the air pump [25] and close the drain valves [23] on the lines near the tanks.
 - (b) Close the valves on the drain hose [29] and supply hose [24] where they connect to the drain valves [23] near the tanks.
 - (c) Disconnect the supply hose [24] and drain hose [29] from the drain valves [23] and reconnect them to the opposite drain valve [23] on the opposite waste line.
 - (d) Restart the air pump [25].

I. Drain the Waste Line

SUBTASK 38-32-00-840-002

- (1) Do these steps to drain the chemical solution from the system:
 - (a) Stop the air pump [25].
 - (b) Close the supply hose valve [40].
 - (c) Disconnect the supply hose valve [40] from the air pump [25] at the quick-disconnect [26].
 - (d) Put the end of the supply hose [24] into the container and open the supply hose valve [40].

NOTE: The solution starts to drain from the hose.

 - (e) To flush the waste line, do the steps that follow:
 - 1) Connect an regulated air source, STD-77, to the air pressure assembly [30] to force the solution out of the waste lines and into the container.
 - 2) Connect a 0 to 60 PSIG regulated cold water source, STD-3926, to the air pressure assembly [30] adapter in the farthest upstream lavatory
 - 3) Flush the waste line with a minimum of 5 gal (19 l) of water for each toilet on the waste line.
 - 4) Connect an regulated air source, STD-77, to the pressure adapter.
 - 5) Dry the waste line with air flow, under 15 psi (103 kPa), for approximately 5 minutes.
 - (f) Stop when the cleaning solution and flushing water is fully drained from the waste line.
 - (g) If it is necessary to drain other waste lines, do these steps again to drain waste lines.

SUBTASK 38-32-00-410-019

- (2) Do these steps to remove the vacuum lav system pump equipment, SPL-4780:
 - (a) In the farthest upstream lavatory, remove the air pressure assembly [30] and jumper hose [35].
 - (b) In each lavatory between the farthest upstream toilet and the waste tank, remove the waste line plug assembly [38].
 - (c) Do this task: Vacuum Toilet Assembly Installation, TASK 38-32-01-400-838-002 or Vacuum Toilet Assembly Installation, TASK 38-32-01-400-805-001 or Vacuum Toilet Assembly Installation, TASK 38-32-01-400-844-003.
 - (d) Remove the drain valves [23] at the connection near the waste tanks for both lines that were cleaned.

NOTE: Remaining liquid can stay in the waste lines. Prepare to collect and then discard all of the liquid.

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- (e) Make sure that all solid material is out of the waste line before the connection of the waste line to the waste tank.
- NOTE: The solid material in the waste line can cause the block of the waste lines after you complete this procedure.
- (f) Put the waste tubes [21] in its positions.
- 1) Connect the last section of the waste tubes [21] with the waste tank inlets [71] to the waste tank.
 - a) Apply silicone-based grease, D50007, to the O-rings [73].
 - b) Install the O-rings [73].
 - c) Install the V-band couplings [72] to connect the waste tank inlets [71].
 - d) Tighten the V-band coupling [72] to 40 in-lb (5 N·m) - 50 in-lb (6 N·m).

J. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-00-860-049

- (1) Do these steps to complete this task:



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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT
F	2	C01389	VACUUM WASTE BLOWER

- (b) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-32-00-170-009

- (2) To push other solid material out of the waste system, do one of these procedures:
- (a) Do this task: Periodic Flush - Vacuum Waste System Cleaning, TASK 38-32-00-100-801.
 - (b) Do this task: Pressure Washer Cleaning of the Vacuum Waste Lines, TASK 38-32-00-100-802.

SUBTASK 38-32-00-610-024

- (3) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.

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SUBTASK 38-32-00-610-025

- (4) Do this task: Vacuum Waste System - Leak Test, TASK 38-32-00-700-801.

SUBTASK 38-32-00-860-050

- (5) Do this task: Waste Tank Enclosure Panel - Installation, TASK 25-52-20-400-801.

SUBTASK 38-32-00-410-020

- (6) Close the access to the passenger compartment.

SUBTASK 38-32-00-910-018

- (7) Obey the local authorities to discard the chemical solution.

———— END OF TASK ————

— EFFECTIVITY —
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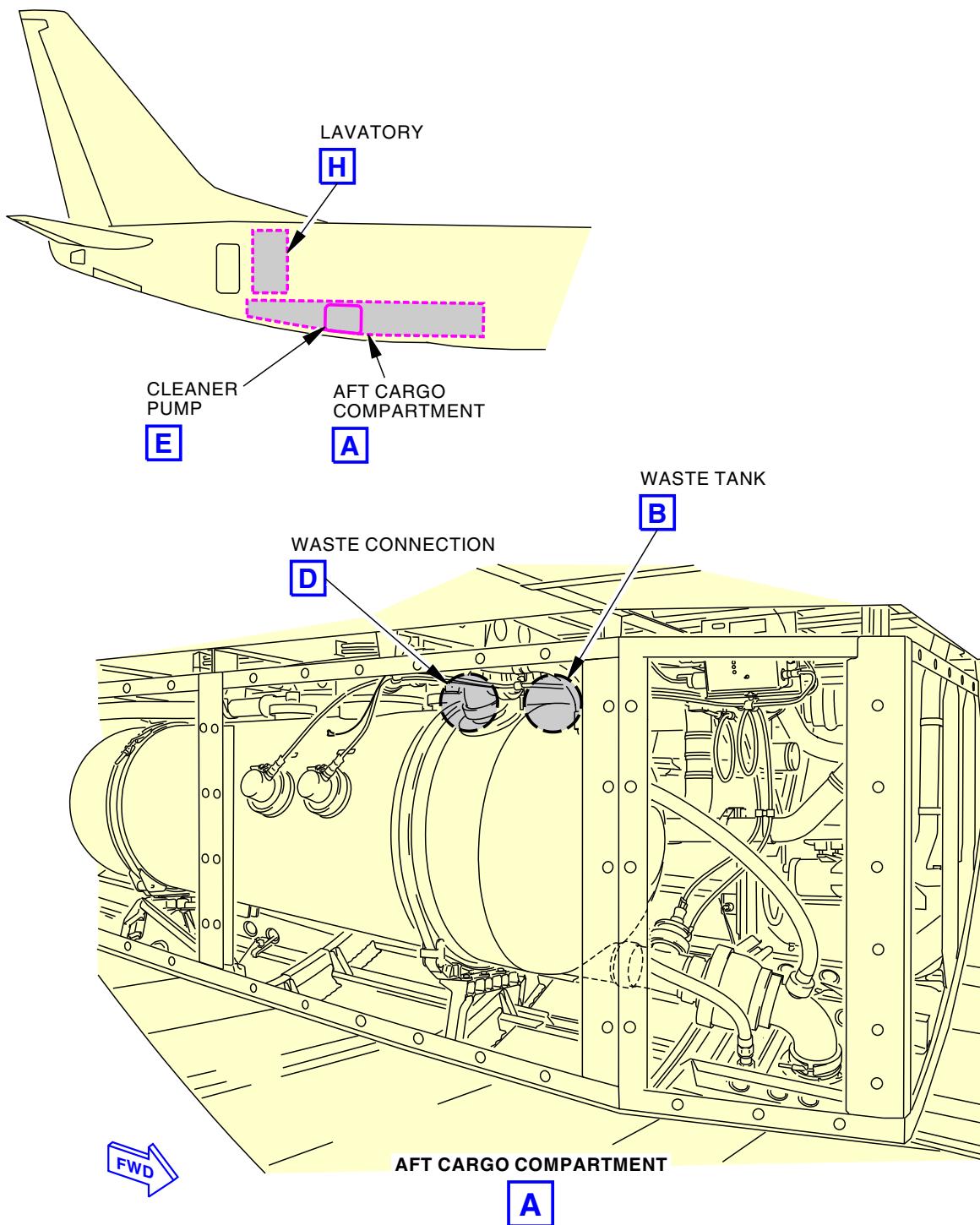
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Recirculating Waste Line Cleaning
Figure 703/38-32-00-990-813 (Sheet 1 of 5)

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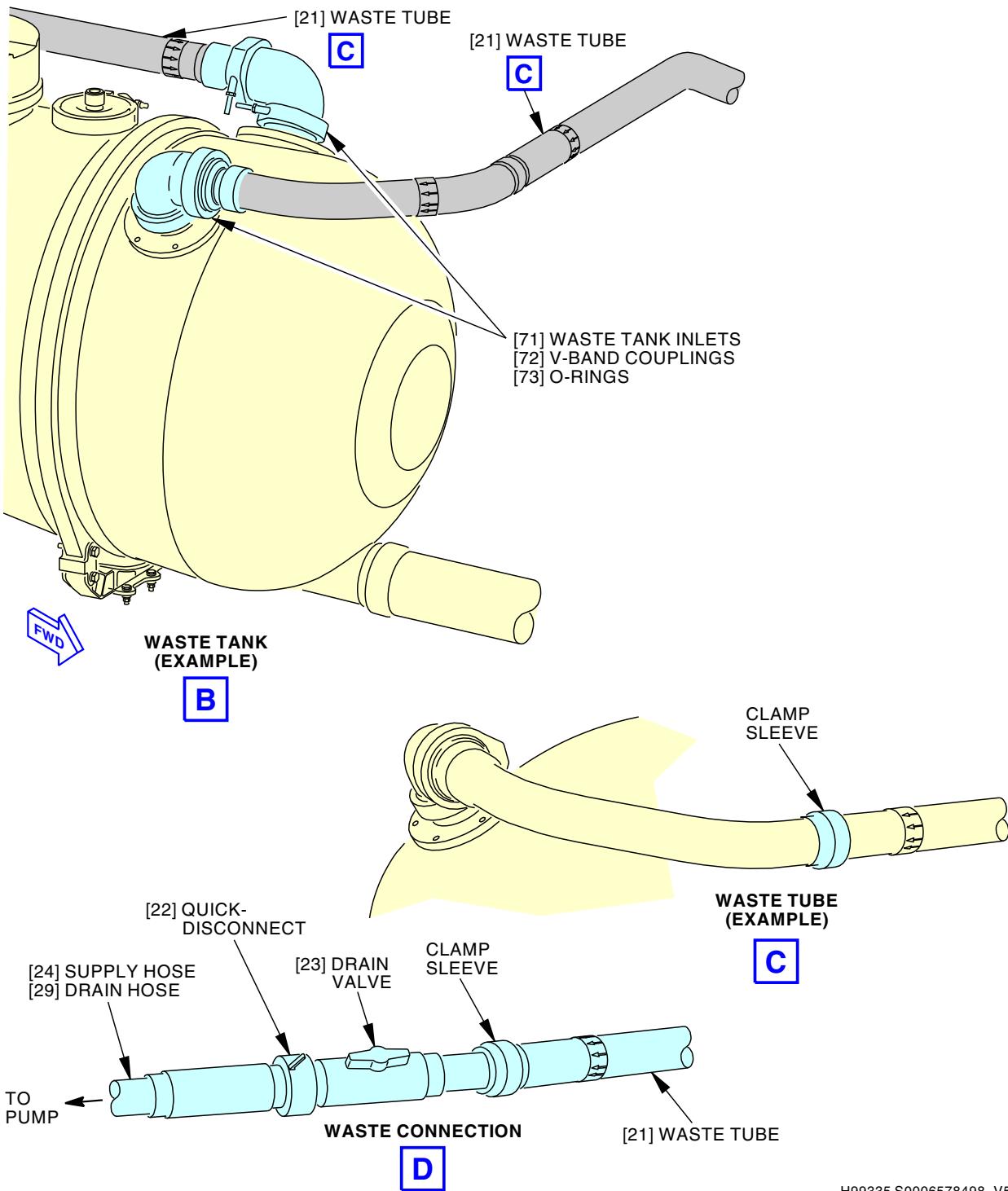
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Recirculating Waste Line Cleaning
Figure 703/38-32-00-990-813 (Sheet 2 of 5)

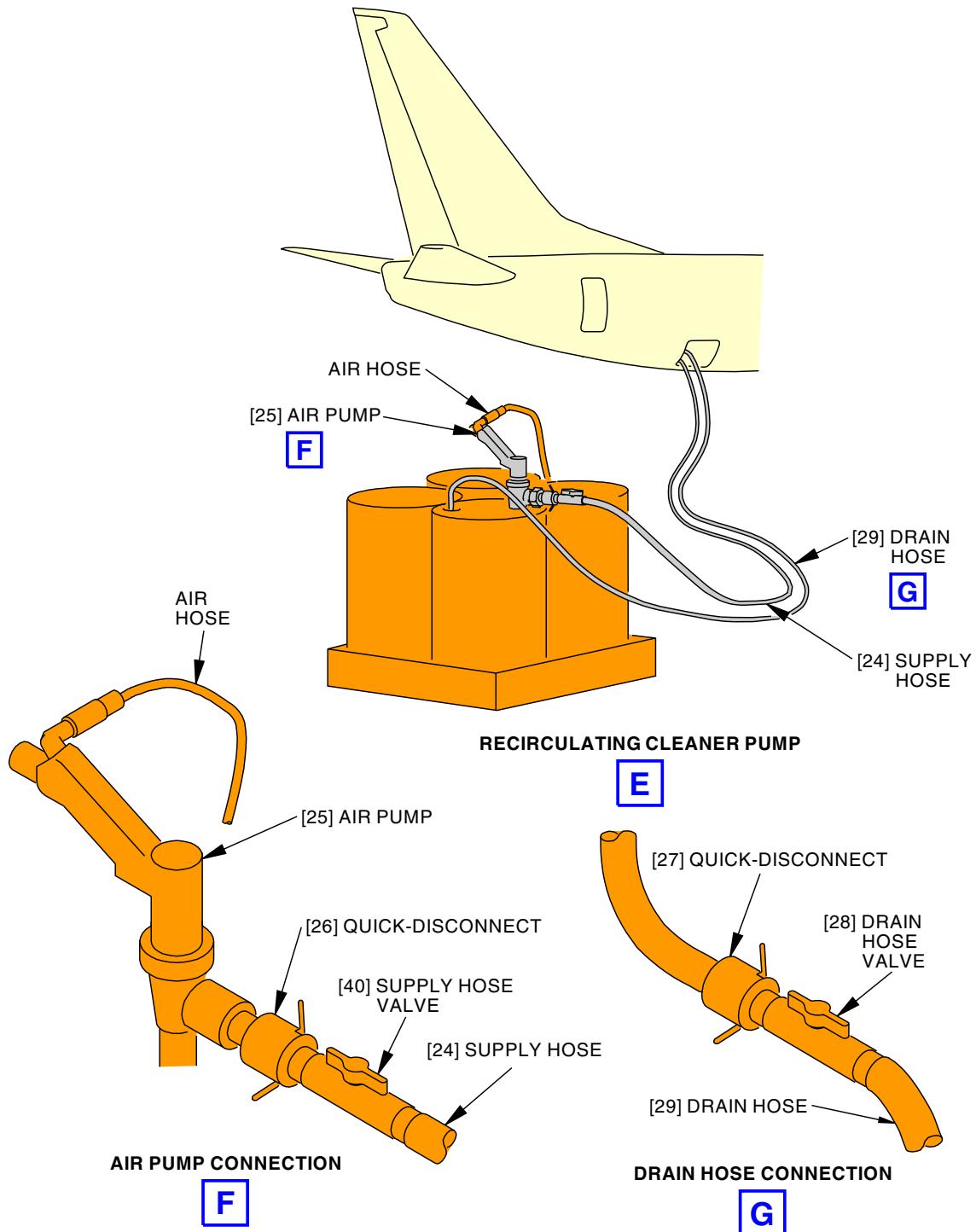
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ECCN 9E991 BOEING PROPRIETARY - See title page for details


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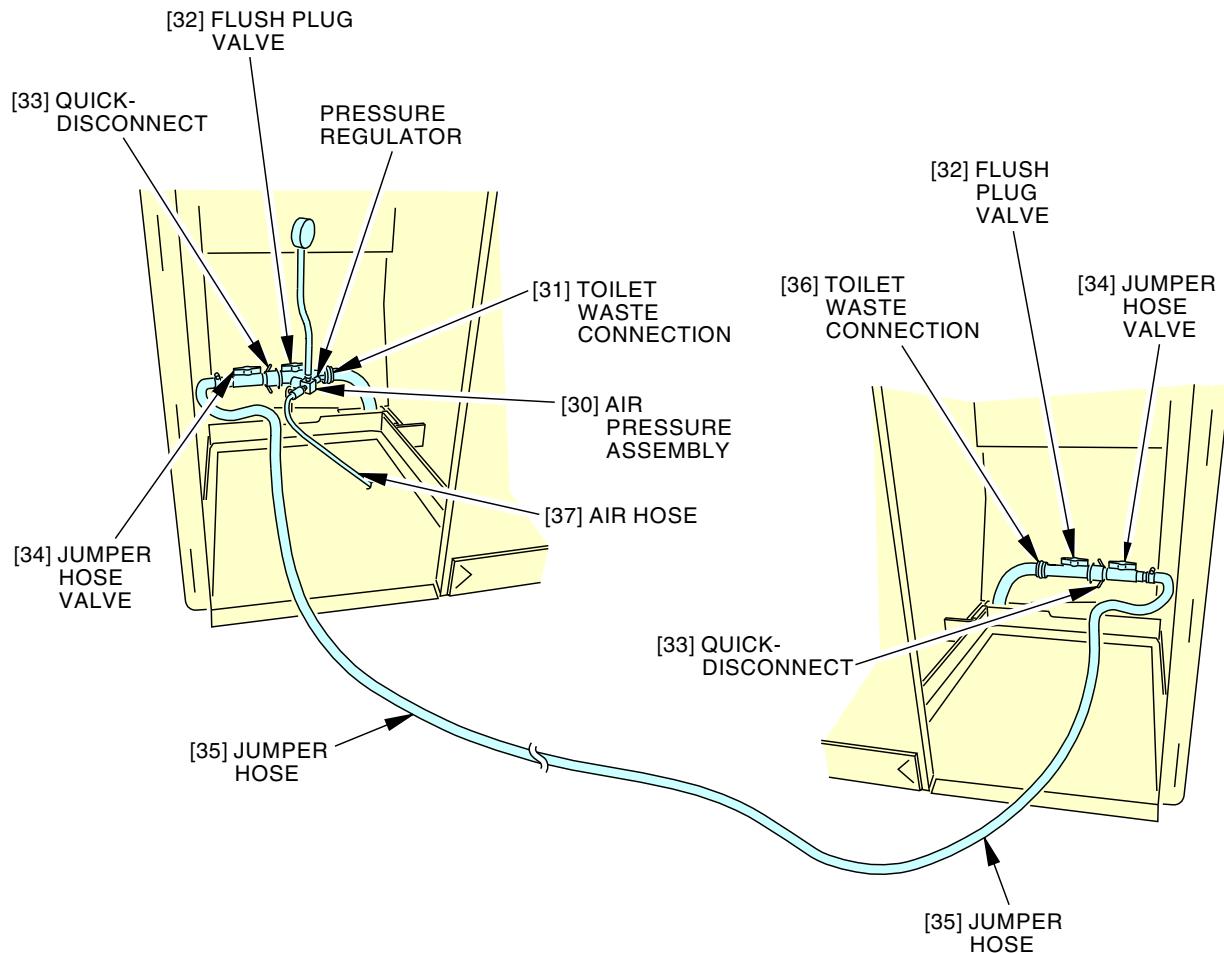


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Recirculating Waste Line Cleaning
 Figure 703/38-32-00-990-813 (Sheet 3 of 5)

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**LAVATORY
(EXAMPLE)**

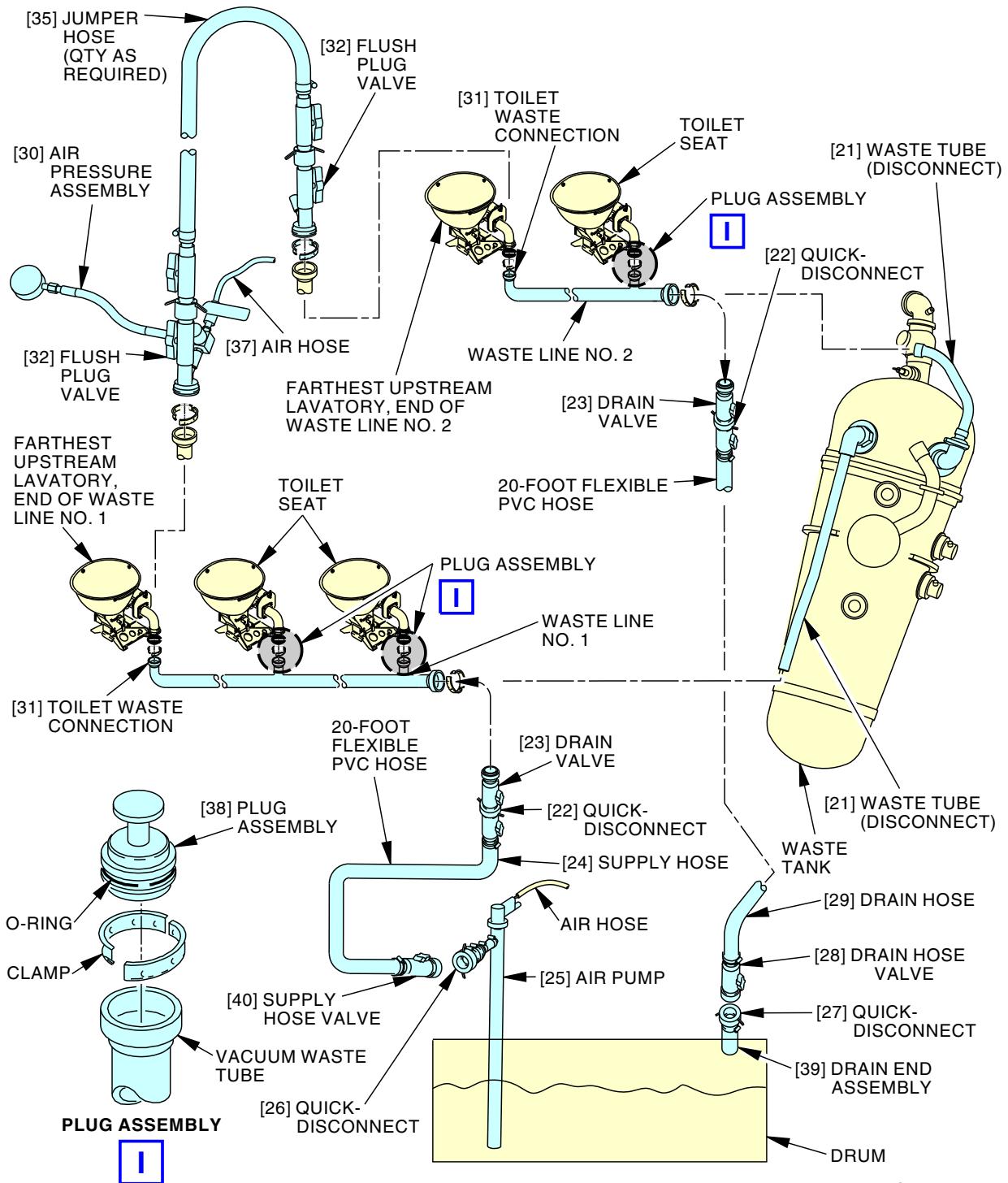
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**Recirculating Waste Line Cleaning
Figure 703/38-32-00-990-813 (Sheet 4 of 5)**

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Recirculating Waste Line Cleaning
Figure 703/38-32-00-990-813 (Sheet 5 of 5)

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TASK 38-32-00-110-802

6. Recirculating Waste System Cleaning

A. General

- (1) This procedure gives the instructions to clean the vacuum waste tubes and tank. Use this procedure to decrease the scale that collects in the vacuum waste tubes.
- (2) This procedure removes the toilets and fills the vacuum waste line with chemical cleaner at the toilet connection. The cleaner drains from the waste service panel and recirculates through the pump equipment, into the airplane. The time to the clean the vacuum waste system is 6-10 hours. The condition of the vacuum waste system changes the time necessary.
- (3) This procedure uses negative (vacuum) pressure to recirculate the cleaner. A pressure check is not necessary.

B. References

Reference	Title
12-17-01-610-801	Waste Tank Servicing (P/B 301)
25-52-20-000-801	Waste Tank Enclosure Panel - Removal (P/B 401)
25-52-20-400-801	Waste Tank Enclosure Panel - Installation (P/B 401)
38-32-00-910-801	Standard Practices for Work with the Toilet Waste and Equipment (P/B 201)
38-32-01-000-805-001	Vacuum Toilet Assembly Removal (P/B 401)
38-32-01-000-838-002	Vacuum Toilet Assembly Removal (P/B 401)
38-32-01-000-844-003	Vacuum Toilet Assembly Removal (P/B 401)
38-32-01-400-805-001	Vacuum Toilet Assembly Installation (P/B 401)
38-32-01-400-838-002	Vacuum Toilet Assembly Installation (P/B 401)
38-32-01-400-844-003	Vacuum Toilet Assembly Installation (P/B 401)
38-32-02-000-801	Liquid Separator Removal (P/B 201)
38-32-02-400-801	Liquid Separator Installation (P/B 201)

C. Tools/Equipment

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

Reference	Description
SPL-13842	Equipment - Pump, Recirculating Heated Fluid, Vacuum Lav. System Part #: J38004-287 Supplier: 81205 Opt Part #: J38004-232 Supplier: 81205 Opt Part #: J38004-247 Supplier: 81205
STD-6842	Air Supply - Pneumatic, Hangar

D. Consumable Materials

Reference	Description	Specification
B00046	Acid - Corrosion Removing, Metal Conditioning, Phosphoric	MIL-C-10578
B00636	Acid, Acetic (Vinegar) (5%-10% Acetic Acid)	Commercially available product
B00638	Cleaner - Acidic Liquid - Honey Bee 60 (McGean-Rohco)	

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(Continued)

Reference	Description	Specification
B50273	Cleaner - Acidic Liquid, Vacuum Toilet Line	AMS 1640
	Cleaner - Sani-Vak G3	
B50329	Cleaner - Acidic Liquid - Honey Bee 60 T	
B50330	Cleaner - Acidic Liquid - Honey Bee 60 TNP	

E. Location Zones

Zone	Area
141	Aft Cargo Compartment - Left
200	Upper Half of Fuselage

F. Prepare for the Cleaning

SUBTASK 38-32-00-610-034

- (1) Do this task: Standard Practices for Work with the Toilet Waste and Equipment, TASK 38-32-00-910-801.

SUBTASK 38-32-00-110-009

- (2) Do this task: Periodic Flush - Vacuum Waste System Cleaning, TASK 38-32-00-100-801.

SUBTASK 38-32-00-610-032

- (3) Do this task, but do not do the steps to add precharge: Waste Tank Servicing, TASK 12-17-01-610-801.

SUBTASK 38-32-00-480-013

- (4) Do these steps to isolate the overboard vent system.

NOTE: The plugs in the vent overboard tubes will prevent the chemical cleaner from spilling if the waste tank is filled above the liquid separator.

- (a) Remove the waste tank enclosure, do this task: Waste Tank Enclosure Panel - Removal, TASK 25-52-20-000-801.
- (b) Loosen the clamps and disconnect the flexible couplings from the intake and outflow of the vacuum blower.
- (c) Install the plug [60] on the flexible coupling at the vacuum blower intake with the clamp.
- (d) Install the plug outlet [61] on the flexible coupling at the vacuum blower outflow with the clamp.
- (e) Install the vent plug assembly [62] in the vent port outlet, at the skin.

SUBTASK 38-32-00-480-010

- (5) Assemble the recirculating pump equipment, SPL-13842 tool.

- (a) Attach the clean supply hose [55] to the tool and tank 1.
- (b) Attach the return hose [54] to the tool and tank 2.
- (c) Attach the recirculation hose [57] to the tool and tank 2.
- (d) Attach the drain hose [59] to the tool.
- (e) Attach the supply hose [58] to the tool.
- (f) Connect hangar pneumatic air supply, STD-6842 to the tool control panel

SUBTASK 38-32-00-860-065

- (6) Connect the drain hose [59] to the service panel drain fitting.

SUBTASK 38-32-00-860-066

- (7) Pull the drain valve handle open to the "DRAIN" position.

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SUBTASK 38-32-00-010-039

- (8) For all lavatories on the waste line to be cleaned, do this task: Vacuum Toilet Assembly Removal, TASK 38-32-01-000-838-002 or Vacuum Toilet Assembly Removal, TASK 38-32-01-000-805-001 or Vacuum Toilet Assembly Removal, TASK 38-32-01-000-844-003.

NOTE: The toilet assembly removal is necessary to attach the plug and flush plug equipment.

SUBTASK 38-32-00-480-011



DO NOT LET THE CLEANING SOLUTION LEAK FROM THE WASTE SYSTEM INTO THE AIRPLANE. MAKE SURE THAT A PERSON WITH SPILLAGE-PREVENTION EQUIPMENT HAS ACCESS TO EACH LAVATORY THAT IS CONNECTED TO THE WASTE LINE. THE CLEANING SOLUTION CAN CAUSE DAMAGE TO THE AIRPLANE STRUCTURE.

- (9) Install the flush plug [51] and supply hose [58] to the most forward toilet.

- (a) Install straps or blocking to hold the waste line connection.

NOTE: If the waste line is not held in its position, a possible leak below the floor can occur.

SUBTASK 38-32-00-480-012

- (10) Install a plug [52] in each lavatory between the most forward toilet and the waste tank

G. Waste Line Cleaning

SUBTASK 38-32-00-110-010

- (1) Prepare the chemical solution to clean the waste line with one of the chemical cleaners that follows:

NOTE: The quantity of the cleaner necessary for the waste line and tool hoses is 0.16 gallons for each linear foot (2.0 liters for each linear meter).

- (a) Honey Bee 60 cleaner, B00638, Honey Bee 60 T cleaner, B50329, or Honey Bee 60 TNP cleaner, B50330
(b) 5 to 10% Acetic acid, B00636
(c) 7% Phosphoric acid, B00046
(d) Sani-Vak G3, B50273.

SUBTASK 38-32-00-110-011

- (2) Fill tank 1 with cleaner.

SUBTASK 38-32-00-110-012

- (3) Fill the waste lines with cleaner.

- (a) Start the flow meter.
(b) Move the valve levers to the "CLEAN FLUID" AND "QUICK CLEAN" positions.
(c) Move the pump levers to "NEGATIVE PRESSURE PUMP OFF" AND "POSITIVE PRESSURE PUMP ON" positions.
(d) Make sure that the hose connections at the recirculating pump equipment, SPL-13842 tool and tanks do not have a leak.
(e) Make sure that the supply hose [58] to the toilet connection does not have a leak.
(f) Make sure that each lavatory plug [52] does not have a leak.

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- (g) Let the cleaning fluid fill the vacuum waste lines.

NOTE: The waste line will be full when you see the cleaner in the drain hose at the service panel.

SUBTASK 38-32-00-110-013

- (4) Recirculate the cleaning fluid for a minimum of 6 hours.

NOTE: The time necessary to clean the waste lines is 6-10 hours. The condition of the vacuum waste system changes the time necessary

- (a) Move the valve levers to the "RECIRCULATION" positions.
- (b) Move the pump levers to "NEGATIVE PRESSURE PUMP ON" AND "POSITIVE PRESSURE PUMP OFF" positions.
- (c) Record the flow rate.
- (d) Record the differential pressure between the negative pump pressure and the heater pressure.
- (e) If heat is necessary, start the heater.
 - 1) Make sure that the cleaner you use is satisfactory for heat. Follow the manufacturers directions.

NOTE: The heater will not let the temperature be more than 120°F (49°C).

SUBTASK 38-32-00-110-014

- (5) Make sure that the lavatories and hose connections do not have a leak.

SUBTASK 38-32-00-110-015

- (6) Make sure that the recirculation flow continues.

- (a) Look at the drain hose [59] attached to the service panel.
- (b) If the flow from the drain hose [59] falls or stops, do these steps to clean the waste tank:

NOTE: Scale from the waste lines or waste tank can collect and cause a blockage at the waste tank outlet.

 - 1) Move the pump lever to "NEGATIVE PRESSURE PUMP OFF".
 - 2) Do this task: Liquid Separator Removal, TASK 38-32-02-000-801.
 - 3) Remove the loose scale from the bottom of the waste tank.
 - 4) Do this task: Liquid Separator Installation, TASK 38-32-02-400-801
 - 5) Move the pump lever to "NEGATIVE PRESSURE PUMP ON".
- (c) Look at the flow meter and pressure gages at the control panel.
- (d) If the flow rate decreases, or the differential pressure between the negative pump and the heater increases, do these steps to clean the filter:

NOTE: Scale from the waste lines or waste tank can collect and cause a blockage at the filter. If the flow rate or the differential pressure increases more than 30%, it is necessary to clean the filter. It is necessary to drain the system to clean the filter.

- 1) Move the valve lever to the "CLEAN FLUID" position.
- 2) When all of the cleaning fluid has drained from the airplane, move the pump lever to "NEGATIVE PRESSURE PUMP OFF".

NOTE: This step will start to drain the waste line. If there is cleaning fluid in tank 1, it will pump into the waste line before the system drains.

- 3) Open the filter [53] housing cap.

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- 4) Empty or replace the filter bags.
- 5) Close the filter [53] housing cap.
- 6) Move the valve levers to the "CLEAN FLUID" AND "QUICK CLEAN" positions.
- 7) Move the pump levers to "NEGATIVE PRESSURE PUMP OFF" AND "POSITIVE PRESSURE PUMP ON" positions.
- 8) Let the cleaning fluid fill the vacuum waste lines.
NOTE: The waste line will be full when you see the cleaner in the drain hose at the service panel.
- 9) Move the valve levers to the "RECIRCULATION" positions.
- 10) Move the pump levers to "NEGATIVE PRESSURE PUMP ON" AND "POSITIVE PRESSURE PUMP OFF" positions.

SUBTASK 38-32-00-110-016

- (7) Drain the cleaning fluid from the waste lines.
 - (a) Move the valve lever to the "CLEAN FLUID" position.
 - (b) When all of the cleaning fluid has drained from the airplane, move the pump lever to "NEGATIVE PRESSURE PUMP OFF".

SUBTASK 38-32-00-170-013

- (8) Flush the vacuum waste system and recirculating pump equipment, SPL-13842 with water.
 - (a) Put the 50 gallons of water in tank 1.
 - (b) Move the valve levers to the "CLEAN FLUID" AND "QUICK CLEAN" positions.
 - (c) Move the pump levers to "NEGATIVE PRESSURE PUMP OFF" AND "POSITIVE PRESSURE PUMP ON" positions.
 - (d) Let the water fill the vacuum waste lines.
NOTE: The waste line will be full when you see the water in the drain hose at the service panel.
 - (e) Move the pump levers to "NEGATIVE PRESSURE PUMP ON" AND "POSITIVE PRESSURE PUMP OFF" positions.
NOTE: This will let most of the water drain from the airplane.
 - (f) When the water has drained from the airplane, move the pump lever to "POSITIVE PRESSURE PUMP OFF".

H. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-00-080-010

- (1) Remove the plug [52] from each lavatory.

SUBTASK 38-32-00-080-011

- (2) Remove the flush plug [51] and supply hose [58] from the most forward toilet.

SUBTASK 38-32-00-410-024

- (3) Install all of the toilets. Do this task: Vacuum Toilet Assembly Installation, TASK 38-32-01-400-838-002 or Vacuum Toilet Assembly Installation, TASK 38-32-01-400-805-001 or Vacuum Toilet Assembly Installation, TASK 38-32-01-400-844-003.

SUBTASK 38-32-00-080-014

- (4) Do these steps to restore the overboard vent system.
 - (a) Remove the vent plug assembly [62] in the vent port outlet, at the skin.

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- (b) Remove the plug outlet [61] on the flexible coupling at the vacuum blower outflow.
- (c) Remove the plug [60] on the flexible coupling at the vacuum blower intake.
- (d) Connect the flexible couplings to the intake and outflow of the vacuum blower and tighten the clamps.
- (e) Do this task: Waste Tank Enclosure Panel - Installation, TASK 25-52-20-400-801.

SUBTASK 38-32-00-160-018

- (5) Clean the recirculating pump equipment, SPL-13842 filter.
 - (a) Open the filter housing cap.
 - (b) Clean or replace the filter bags.
 - (c) Close the filter housing cap.

SUBTASK 38-32-00-080-012

- (6) Disassemble the recirculating pump equipment, SPL-13842 tool.
 - (a) Remove the clean supply hose [55] from the tool and tank 1.
 - (b) Remove the recirculation hose [57] and the return hose [54] from the tool and tank 2.
 - (c) Remove the drain hose [59] from the tool.
 - (d) Remove the supply hose [58] from the tool.

SUBTASK 38-32-00-860-067

- (7) Push the drain valve handle open to the "CLOSED" position.

SUBTASK 38-32-00-080-013

- (8) Remove the drain hose [59] from the service panel drain fitting.

SUBTASK 38-32-00-610-033

- (9) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.

SUBTASK 38-32-00-410-025

- (10) Do this task: Waste Tank Enclosure Panel - Installation, TASK 25-52-20-400-801

SUBTASK 38-32-00-410-026

- (11) Close the access to the passenger compartment.

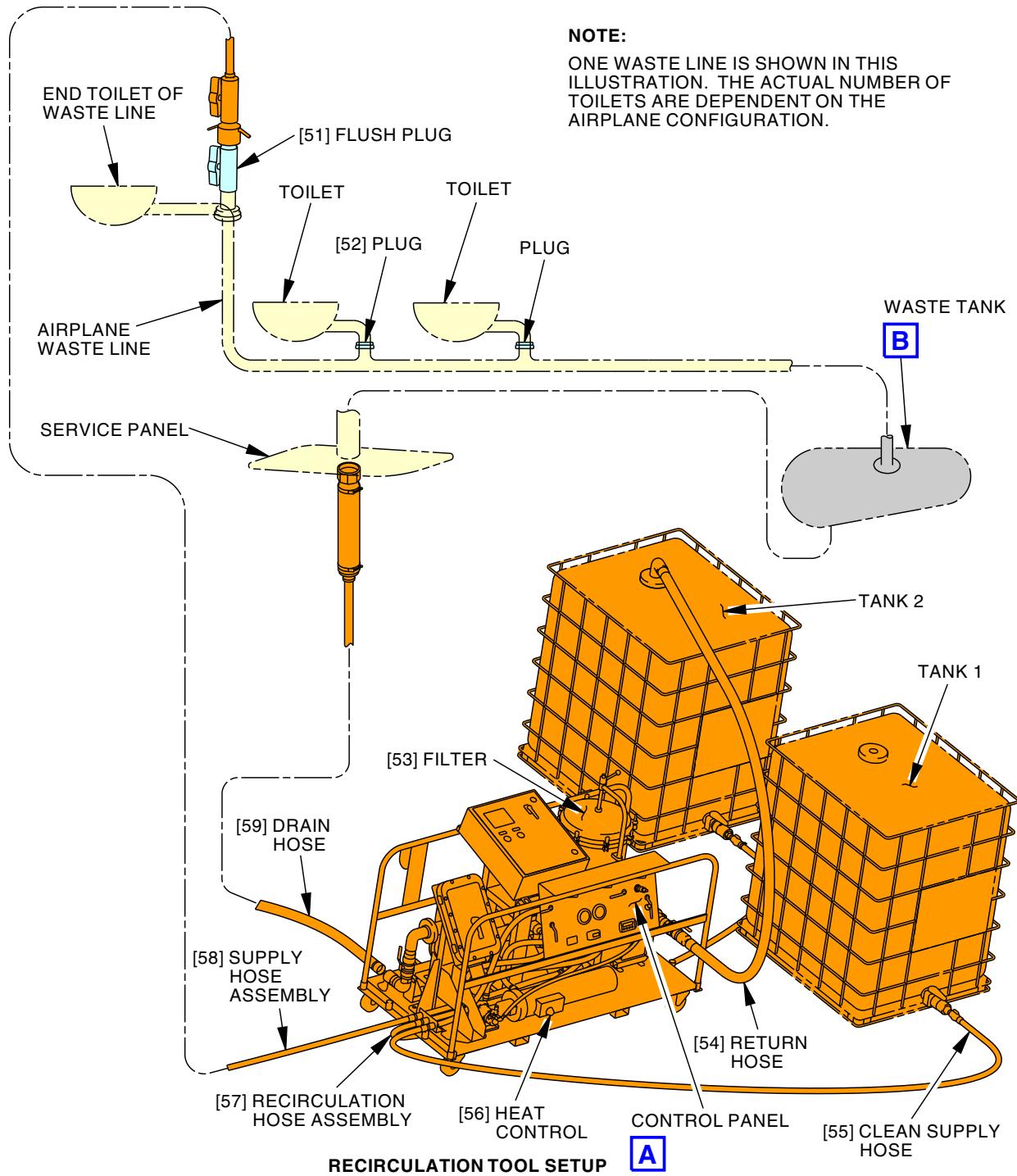
SUBTASK 38-32-00-500-001

- (12) Obey the local authorities to discard the chemical solution.

———— END OF TASK ————

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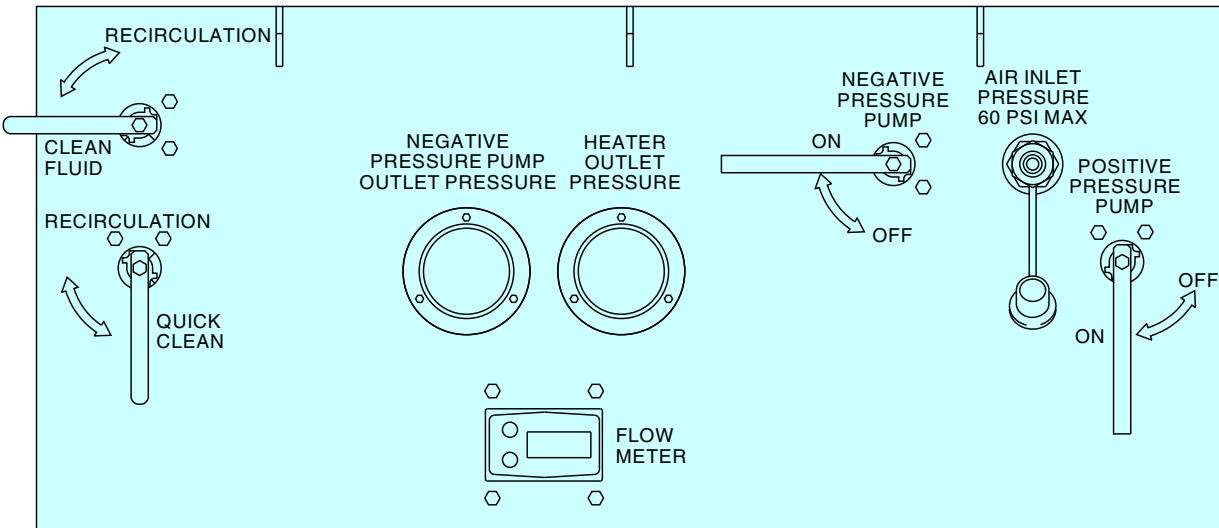
**Recirculating Waste Line Cleaning
Figure 704/38-32-00-990-824 (Sheet 1 of 2)**

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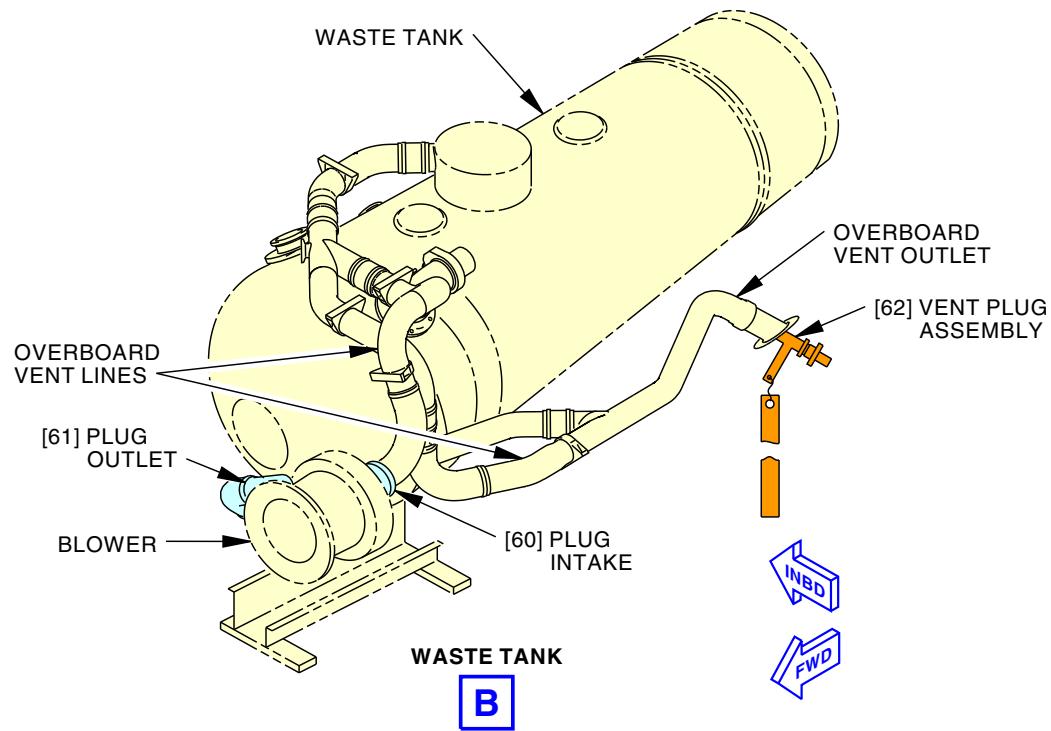


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CONTROL PANEL

A



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Recirculating Waste Line Cleaning
Figure 704/38-32-00-990-824 (Sheet 2 of 2)

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TASK 38-32-00-780-803

7. Pressure Test Procedure

(Figure 705)

A. General

- (1) This procedure is used before the Soak or Recirculate procedures to make sure that the waste lines will not leak.

B. References

Reference	Title
12-17-01-610-801	Waste Tank Servicing (P/B 301)
38-32-00-910-801	Standard Practices for Work with the Toilet Waste and Equipment (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-1953	Equipment - Pump, Static Soak, Vacuum Lav. System Part #: A38012-39 Supplier: 81205 Opt Part #: A38012-1 Supplier: 81205 Opt Part #: A38012-31 Supplier: 81205
SPL-4780	Pump Equipment - Vacuum Lav System Part #: A38012-40 Supplier: 81205 Opt Part #: A38012-18 Supplier: 81205 Opt Part #: A38012-32 Supplier: 81205
STD-77	Air Source, Regulated - Dry Filtered, 0-50 psig

D. Location Zones

Zone	Area
141	Aft Cargo Compartment - Left
200	Upper Half of Fuselage

E. Prepare for Pressurization

SUBTASK 38-32-00-010-031

- (1) Get access to the passenger compartment.

SUBTASK 38-32-00-910-019

- (2) Do this task: Standard Practices for Work with the Toilet Waste and Equipment, TASK 38-32-00-910-801.

SUBTASK 38-32-00-610-026

- (3) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.

NOTE: After 5 minutes, drain the precharge from the waste tank.

SUBTASK 38-32-00-780-011



CAUTION
USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (4) Do a pressure decay check for each waste line to be cleaned as follows:

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- (a) In the farthest upstream lavatory of the waste line, install a Flush Plug and an Air Pressure Assembly from the static soak pump equipment, SPL-1953.
- (b) If you want to test more than one line at the same time, install a Flush Plug in the furthest upstream lavatory of another waste line and connect the lavatories with the Jumper Hose from the vacuum lav system pump equipment, SPL-4780. Additional Jumper hoses must be added for distances over ten feet.
NOTE: Make sure the valves on the Flush Plugs and Jumper Hose are open.
- (c) At the end of the waste line in each lavatory between the most upstream toilet and the waste tank, install a Plug.
- (d) Install a Drain Valve at the end of the waste tube inlet where the section of tubing has been removed.
NOTE: Make sure the valve is in the closed position.
- (e) Connect the pressurization equipment (Figure 705) to the Air Pressure Assembly in the lavatory.
- (f) Pressurize the waste line system to 5 psi (34 kPa) to 10 psi (69 kPa) and then turn off the regulated air source, STD-77.
- (g) Stop for 5 minutes.
- (h) If the pressure has degraded more than 0.5 psi (3.4 kPa) over the 5 minutes, the system cannot safely be cleaned.
NOTE: You must repair all leaks. When you repair the leak, then do this pressure test.
- (i) If the pressure has not degraded by more than 0.5 psi (3.4 kPa), the system is fluid tight.
- (j) Release the pressure from the waste system.
- (k) Disconnect the pressurization equipment, but keep the Air Pressure Assembly, the Plugs and the Flush Plugs in their positions.

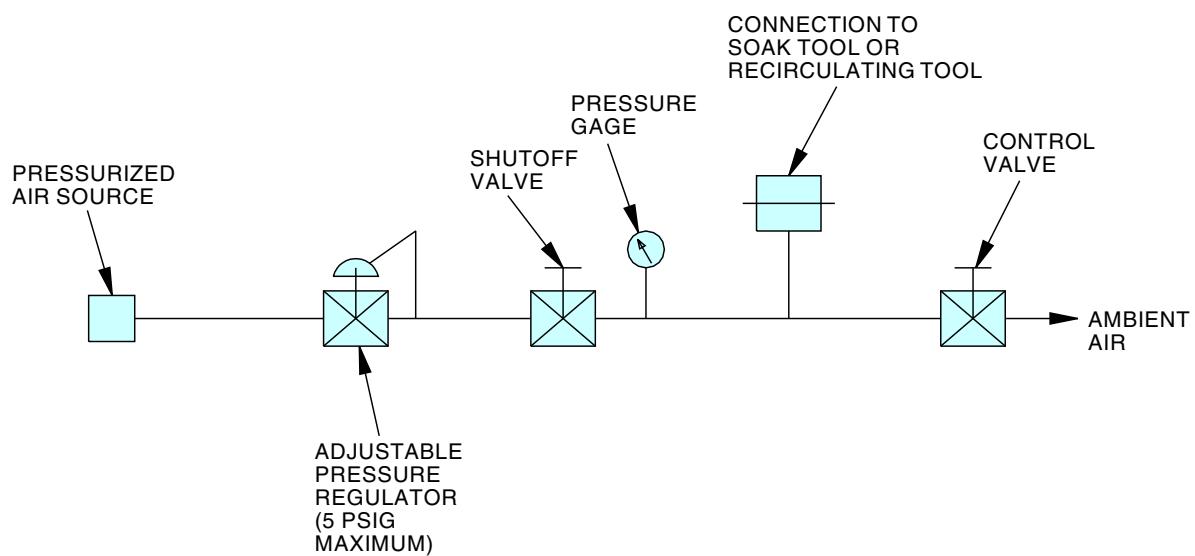
———— END OF TASK ———

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Soak Pressure Test
Figure 705/38-32-00-990-814

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TASK 38-32-00-100-804

8. Vacuum Waste Tube Off Airplane Soak

A. General

- (1) This task gives the steps for an off-aircraft soak procedure for cleaning a vacuum waste tube that is nearly or completely blocked and can not be cleared by other means.

NOTE: You use this procedure to clean a vacuum waste tube that has a heavy waste build-up or blockage.

- (2) If there is too much or a quickly reoccurring scale buildup, make sure that the toilet flush valves fully close. A valve that is not fully closed can cause a drying effect in the tubes. This drying effect can increase the collection of scale. A valve that is not fully closed will cause air noise at the toilet when a different toilet on the system operates.
- (3) There are additional tasks that give instructions to clean the vacuum waste tubes. Use these tasks to decrease the scale that collects in the vacuum waste tubes. Use operational experience to find which task or mixture of tasks are necessary and the necessary time period between tasks.

These are the additional tasks that you can use:

- (a) A cleaning by a periodic flush of a chemical through the vacuum waste system, Periodic Flush - Vacuum Waste System Cleaning, TASK 38-32-00-100-801.

NOTE: You use this procedure to keep the vacuum waste lines clean of the waste build-up. To get the maximum effect, you must frequently do this task. Frequency and amount is operator determined from experience.

- (b) A pressure washer cleaning of the vacuum waste lines, Pressure Washer Cleaning of the Vacuum Waste Lines, TASK 38-32-00-100-802.

NOTE: You use this procedure to clean the vacuum waste lines of the waste build-up. To get the maximum effect, you must use this procedure before you have frequent problems with the vacuum waste lines.

- (c) An in-situ soak method of cleaning the vacuum waste lines, Soak Method for Cleaning of the Vacuum Waste Lines, TASK 38-32-00-100-803.

NOTE: You use this procedure to clean the vacuum waste lines of the heavy waste build-up. To get the maximum effect, you must use this procedure before the waste lines are fully blocked.

- (d) An in-situ recirculate method of cleaning the vacuum waste lines, TASK 38-32-00-110-801.

NOTE: You use this procedure to clean the vacuum waste lines of the heavy waste build-up. To get the maximum effect, you must use this procedure before the waste lines are fully blocked. This method will work quicker than the in-situ soak method.

- (e) A pressure test procedure, Pressure Test Procedure, TASK 38-32-00-780-803.

NOTE: This procedure is used for the in-situ Soak or Recirculate procedures to make sure that the waste lines will not leak while you do the cleaning procedure.

B. References

Reference	Title
38-32-00-020-801	Vacuum Waste Tubes - Removal (P/B 401)
38-32-00-420-802	Vacuum Waste Tubes - Installation (P/B 401)

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C. Tools/Equipment

Reference	Description
STD-197	Container - Plastic, Polyethylene or Polypropylene

D. Consumable Materials

Reference	Description	Specification
B00046	Acid - Corrosion Removing, Metal Conditioning, Phosphoric	MIL-C-10578
B00636	Acid, Acetic (Vinegar) (5%-10% Acetic Acid)	Commercially available product
B00637	Acid, Citric	A-A-59147
B00638	Cleaner - Acidic Liquid - Honey Bee 60 (McGean-Rohco)	
B01021	Cleaner - Drain (Enzyme) - Dispoz-All	
B01022	Cleaner - enzyme septic	
B50091	Cleaner - Gly-Vak Toilet Line Scale Remover	AMS 1550B
B50110	Cleaner - Acidic Liquid - Cedarinse (Seiwa Systems Co., Ltd.)	
B50329	Cleaner - Acidic Liquid - Honey Bee 60 T	
B50330	Cleaner - Acidic Liquid - Honey Bee 60 TNP	
G00022	Compound - Chlorine Dioxide For Water Purification - Purogene or Oxine	

E. Location Zones

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

F. Prepare for the Off-Aircraft Soak Procedure for Cleaning a Vacuum Waste Tube

SUBTASK 38-32-00-670-001

- (1) Disinfect the waste lines. Flush the waste line with 1 gal (4 l) to 3 gal (11 l) of the disinfectant solution.

NOTE: The disinfectant is a solution of chlorine dioxide, citric acid, and water.

- (a) Prepare the disinfectant solution as follows:

WARNING DO NOT BREATHE CHLORINE DIOXIDE GAS. PUT ON A RESPIRATOR, AND GOGGLES. WHEN THE TWO CHEMICALS MIX, THEY MAKE CHLORINE DIOXIDE GAS. CHLORINE DIOXIDE GAS CAN CAUSE INJURIES TO PERSONNEL IF THEY BREATHE IT.

- 1) For each 1 gal (4 l) of disinfectant solution desired, mix 20 fl-oz (0.6 l) of chlorine dioxide Purogene or Oxine compound, G00022 with 2 oz (57 g) of citric acid, B00637 in a plastic container, STD-197.
 - 2) Stop for 5 minutes (activation period).
 - 3) Use a clean instrument to mix the solution fully.
 - 4) Add water to make the desired quantity of solution.
- (b) Disinfect the waste line(s) you are cleaning.

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- 1) Pour and flush 1 gal (4 l) to 3 gal (11 l) of the disinfectant solution through the toilet bowl, at the vacuum waste line you are cleaning.

NOTE: The quantity of solution necessary to disinfect the vacuum toilet line changes with the length and condition of the line. Operator experience shows that 1 gal (4 l) is sufficient for short vacuum lines, but more than 1 gal (4 l) is necessary for longer vacuum lines. The quantity of disinfectant necessary for a specific vacuum toilet line is established by the operator's experience.

SUBTASK 38-32-00-020-006

- (2) To remove a specific waste tube for cleaning, do this task: Vacuum Waste Tubes - Removal, TASK 38-32-00-020-801.

G. Off-Aircraft Soak Procedure for Cleaning a Vacuum Waste Tube

SUBTASK 38-32-00-110-006

- (1) Prepare and place in a suitable hydraulic fluid resistant container, the chemical solution to soak the waste tube. Use one of the chemical cleaners that follow:

NOTE: The quantity of the cleaner necessary for the inside of a waste tube is 0.16 gallons for each linear foot (2.0 liters for each linear meter). Calculate the maximum quantity of the cleaner necessary for each tube, or to submerge each tube.

The acid cleaners are primarily effective on hard salt and alkaline deposits. The bacterial and enzymatic cleaners are primarily effective on organic deposits (soap scums, grease, fat, starch and organic debris).

- (a) A 15% glycolic acid, Gly-Vak toilet line scale remover, B50091.
- (b) An 8% to 12% sulfamic acid, Honey Bee 60 cleaner, B00638, Honey Bee 60 T cleaner, B50329, or Honey Bee 60 TNP cleaner, B50330.
- (c) A 7% phosphoric acid, B00046, solution.
- (d) A 5% to 10% acetic acid, B00636, solution.
- (e) A bacterial cleaner, such as Dispoz-All cleaner, B01021.
- (f) An enzymatic cleaner, such as enzyme septic cleaner, B01022.

A bio-organic acid, Cedarinse, B50110.

SUBTASK 38-32-00-110-007

- (2) Place the waste tube to be cleaned into the container so it is completely submerged in the cleaning solution.

SUBTASK 38-32-00-110-008

- (3) Let the waste tube soak in the cleaner solution for a minimum of 8 hours.

NOTE: To fully clean the waste tube, more than 24 hours can be necessary to remove the heavy scale.

SUBTASK 38-32-00-140-001

- (4) Make sure all solid material is out of the waste tube before re-installation.

H. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-00-420-008

- (1) To install the waste tube after cleaning, do this task: Vacuum Waste Tubes - Installation, TASK 38-32-00-420-802.

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SUBTASK 38-32-00-680-002

- (2) Obey the local authorities to discard the chemical solution.

———— END OF TASK ——

TASK 38-32-00-140-801

9. Overboard Vent Tube Cleaning - Cleaning/Painting

A. General

- (1) This procedure uses a brush, operated manually or mechanically turned with a variable speed drill. The brush must have these specifications.
- (a) 3" round, medium stiff, nylon bristle head.
 - (b) Flexible 3' shaft, capable of 90 degree turns.
- (2) You can do this task in parts. Do the part of the task for the area of the overboard vent system that is necessary to clean.

B. References

Reference	Title
25-52-20-000-801	Waste Tank Enclosure Panel - Removal (P/B 401)
25-52-20-400-801	Waste Tank Enclosure Panel - Installation (P/B 401)
38-32-00-020-801	Vacuum Waste Tubes - Removal (P/B 401)
38-32-00-420-802	Vacuum Waste Tubes - Installation (P/B 401)
38-32-00-910-801	Standard Practices for Work with the Toilet Waste and Equipment (P/B 201)
38-32-06-000-801	Vacuum Check Valve Removal (P/B 401)
38-32-06-400-801	Vacuum Check Valve Installation (P/B 401)

C. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
141	Aft Cargo Compartment - Left
822	Aft Cargo Door

D. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
822	Aft Cargo Door

E. Prepare for the Removal

SUBTASK 38-32-00-010-037

- (1) Open this access panel:

Number	Name/Location
822	Aft Cargo Door

SUBTASK 38-32-00-010-038

- (2) Do this task: Waste Tank Enclosure Panel - Removal, TASK 25-52-20-000-801.

SUBTASK 38-32-00-010-056

- (3) To get access to the P91 panel, open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

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SUBTASK 38-32-00-860-060



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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT
F	2	C01389	VACUUM WASTE BLOWER

SUBTASK 38-32-00-910-022

- (5) Do this task: Standard Practices for Work with the Toilet Waste and Equipment, TASK 38-32-00-910-801.

F. Overboard Vent Tube Cleaning

SUBTASK 38-32-00-140-002

- (1) Clean the vent tube from the port at the skin.
- Put the brush into the vent port opening.
 - Turn the brush while you push it into the vent tube.
 - Push the brush until it stops at the vent tube orifice approximately 3 feet down the tube.
 - Remove the brush from the tube.
 - Remove contamination with the vacuum if necessary.
 - If the tube is not clean, do steps (a) through (e) again.
 - If it is necessary to clean more, do these tasks.
NOTE: These tasks are general. To get access it can be necessary to remove more equipment.
 - 1) Vacuum Waste Tubes - Removal, TASK 38-32-00-020-801
 - 2) Vacuum Waste Tube Off Airplane Soak, TASK 38-32-00-100-804

SUBTASK 38-32-00-140-003

- (2) Clean the vent tubes from the vacuum check valve location.
- Remove the vacuum check valve (TASK 38-32-06-000-801).
 - Push the brush down (outboard) into the tube opening where the check valve was installed.
 - Turn the brush while you push it into the vent tube.

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- (d) Push the brush until it stops at the vent tube orifice approximately 1 ft (0.3 m) down the tube.
- (e) Remove the brush from the tube.
- (f) If it is necessary, remove contamination with the vacuum.
- (g) If the tube is not clean, do steps (b) through (f) again.
- (h) If it is necessary to clean more, do these tasks.

NOTE: These tasks are general. To get access it can be necessary to remove more equipment.

- 1) Vacuum Waste Tubes - Removal, TASK 38-32-00-020-801
- 2) Vacuum Waste Tube Off Airplane Soak, TASK 38-32-00-100-804



CAUTION

DO NOT PUSH THE BRUSH WITH TOO MUCH FORCE OR TOO
QUICKLY. YOU CAN CAUSE DAMAGE TO THE FLEXIBLE COUPLING.

- (i) Push the brush up (inboard) into the tube opening where the check valve was installed.
- (j) Turn the brush while you push it into the vent tube.
- (k) Push the brush until it stops at the liquid separator approximately 3 ft (0.9 m) down the tube.
- (l) Remove the brush from the tube.
- (m) If it is necessary, remove contamination with the vacuum.
- (n) If the tube is not clean, do steps (i) through (m) again.
- (o) If it is necessary to clean more, do these tasks.

NOTE: These tasks are general. To get access it can be necessary to remove more equipment.

- 1) Vacuum Waste Tubes - Removal, TASK 38-32-00-020-801
- 2) Vacuum Waste Tube Off Airplane Soak, TASK 38-32-00-100-804

SUBTASK 38-32-00-140-004

- (3) Clean the vent tubes from the vacuum blower location.
 - (a) Loosen the clamps and remove the flexible couplings from the intake and outflow of the vacuum blower.



CAUTION

DO NOT PUSH THE BRUSH WITH TOO MUCH FORCE OR TOO
QUICKLY. YOU CAN CAUSE DAMAGE TO THE FLEXIBLE COUPLING.

- (b) Push the brush down (outboard) into the tube opening where the flexible coupling was installed.
- (c) Turn the brush while you push it into the vent tube.
- (d) Push the brush until it stops at the vent tube Y approximately 3 ft (0.9 m) down the tube.
- (e) Remove the brush from the tube.
- (f) If it is necessary, remove contamination with the vacuum.
- (g) If the tube is not clean, do steps (a) though (f) again.

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- (h) If it is necessary to clean more, do these tasks.

NOTE: These tasks are general. To get access it can be necessary to remove more equipment.

- 1) Vacuum Waste Tubes - Removal, TASK 38-32-00-020-801
- 2) Vacuum Waste Tube Off Airplane Soak, TASK 38-32-00-100-804



CAUTION

DO NOT PUSH THE BRUSH WITH TOO MUCH FORCE OR TOO QUICKLY. YOU CAN CAUSE DAMAGE TO THE FLEXIBLE COUPLING.

- (i) Push the brush up (inboard) into the tube opening where the flexible coupling was installed.
- (j) Turn the brush while you push it into the vent tube.
- (k) Push the brush until it stops at the vent tube Y approximately 2 ft (0.6 m) down the tube.
- (l) Remove the brush from the tube.
- (m) If it is necessary, remove contamination with the vacuum.
- (n) If the tube is not clean, do steps (i) through (m) again.
- (o) If it is necessary to clean more, do these tasks.

NOTE: These tasks are general. To get access it can be necessary to remove more equipment.

- 1) Vacuum Waste Tubes - Removal, TASK 38-32-00-020-801
- 2) Vacuum Waste Tube Off Airplane Soak, TASK 38-32-00-100-804

SUBTASK 38-32-00-420-011

- (4) If a vent tube was removed, do this task: Vacuum Waste Tubes - Installation, TASK 38-32-00-420-802.

SUBTASK 38-32-00-420-012

- (5) Install the flexible couplings to the intake and outflow of the vacuum blower.

SUBTASK 38-32-00-420-013

- (6) Install the clamps to the flexible couplings.

SUBTASK 38-32-00-400-001

- (7) Do this task: Vacuum Check Valve Installation, TASK 38-32-06-400-801.

G. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-00-860-063



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.

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(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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT
F	2	C01389	VACUUM WASTE BLOWER

SUBTASK 38-32-00-410-042

- (2) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-32-00-410-023



WARNING

SEAL THE CARGO COMPARTMENT WITH THE LINING. OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN YOU INSTALL THE LINING. IF YOU INSTALL THE LINING INCORRECTLY, THE SMOKE CAN GET INTO THE PASSENGER COMPARTMENT DURING A FIRE.

- (3) Do this task: Waste Tank Enclosure Panel - Installation, TASK 25-52-20-400-801.

SUBTASK 38-32-00-410-022

- (4) Close this access panel:

Number Name/Location

822 Aft Cargo Door

———— END OF TASK ————

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TOILET ASSEMBLY - REMOVAL/INSTALLATION

1. General

A. This procedure has these tasks for parts of the toilet system:

- (1) A removal of the toilet shroud assembly.
- (2) An installation of the toilet shroud assembly.
- (3) A removal of the vacuum toilet assembly.
- (4) An installation of the vacuum toilet assembly.
- (5) A removal of the flush control assembly.
- (6) An installation of the flush control assembly.
- (7) A removal of the manual shutoff valve.
- (8) An installation of the manual shutoff valve.
- (9) A removal of the flush valve.
- (10) An installation of the flush valve.
- (11) A removal of the antisiphon valve.
- (12) An installation of the antisiphon valve.
- (13) A removal of the rinse valve.
- (14) An installation of the rinse valve.
- (15) A cleaning of the rinse supply line.

B. Monogram and Envirovac toilets are interchangeable with these installation limits:

- (1) The 15800-029-3 (Monogram) can replace, and be replaced by, 7900101 (Envirovac).
- (2) The 15800-029-3 (Monogram) can replace, and be replaced by, 15800-019-1 (Monogram).
 - (a) When installed on Yokohama Lavatories, 15800-029-3 (Monogram) cannot be replaced by, 15800-019-1 (Monogram).
- (3) The 7900101 (Envirovac) can replace, and be replaced by, 15800-019-1 (Monogram).
 - (a) When installed on Yokohama Lavatories, 7900101 (Envirovac) cannot be replaced by, 15800-019-1 (Monogram).

TASK 38-32-01-000-801-001

2. Toilet Shroud Removal

(Figure 401 or Figure 402)

A. References

Reference	Title
38-32-00-910-801	Standard Practices for Work with the Toilet Waste and Equipment (P/B 201)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Prepare for the Removal

SUBTASK 38-32-01-010-001-001

- (1) Get access to the lavatory for the toilet or toilet component removal.

EFFECTIVITY
LOM 402, 406, 407, 411, 412, 415, 420, 422-425,
432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET



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SUBTASK 38-32-01-910-001-001

- (2) Do this task: Standard Practices for Work with the Toilet Waste and Equipment, TASK 38-32-00-910-801.

LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464

SUBTASK 38-32-01-010-002-001

- (3) To remove the Lavatory A toilet shroud, do this task: Lavatory A Shroud Removal, TASK 38-32-01-000-802-001.

SUBTASK 38-32-01-010-005-001

- (4) To remove the Lavatory D, E, F, G, H, K, L, M or R toilet shroud (as equipped), do this task: Lavatory D, E, F, G, H, K, L, M or R Shroud Removal, TASK 38-32-01-000-804-001.

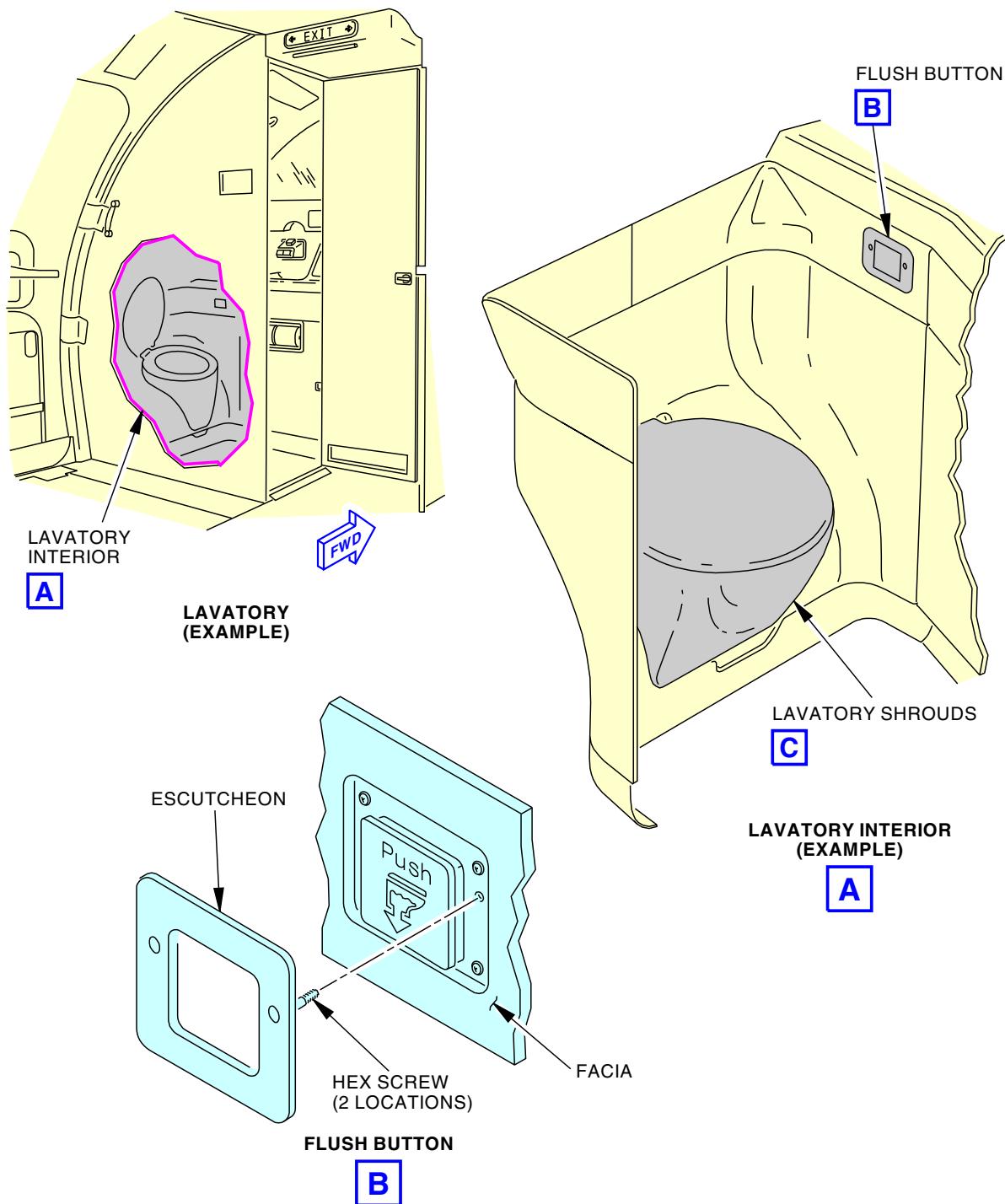
———— END OF TASK ————

— EFFECTIVITY —
**LOM 402, 406, 407, 411, 412, 415, 420, 422-425,
432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET**

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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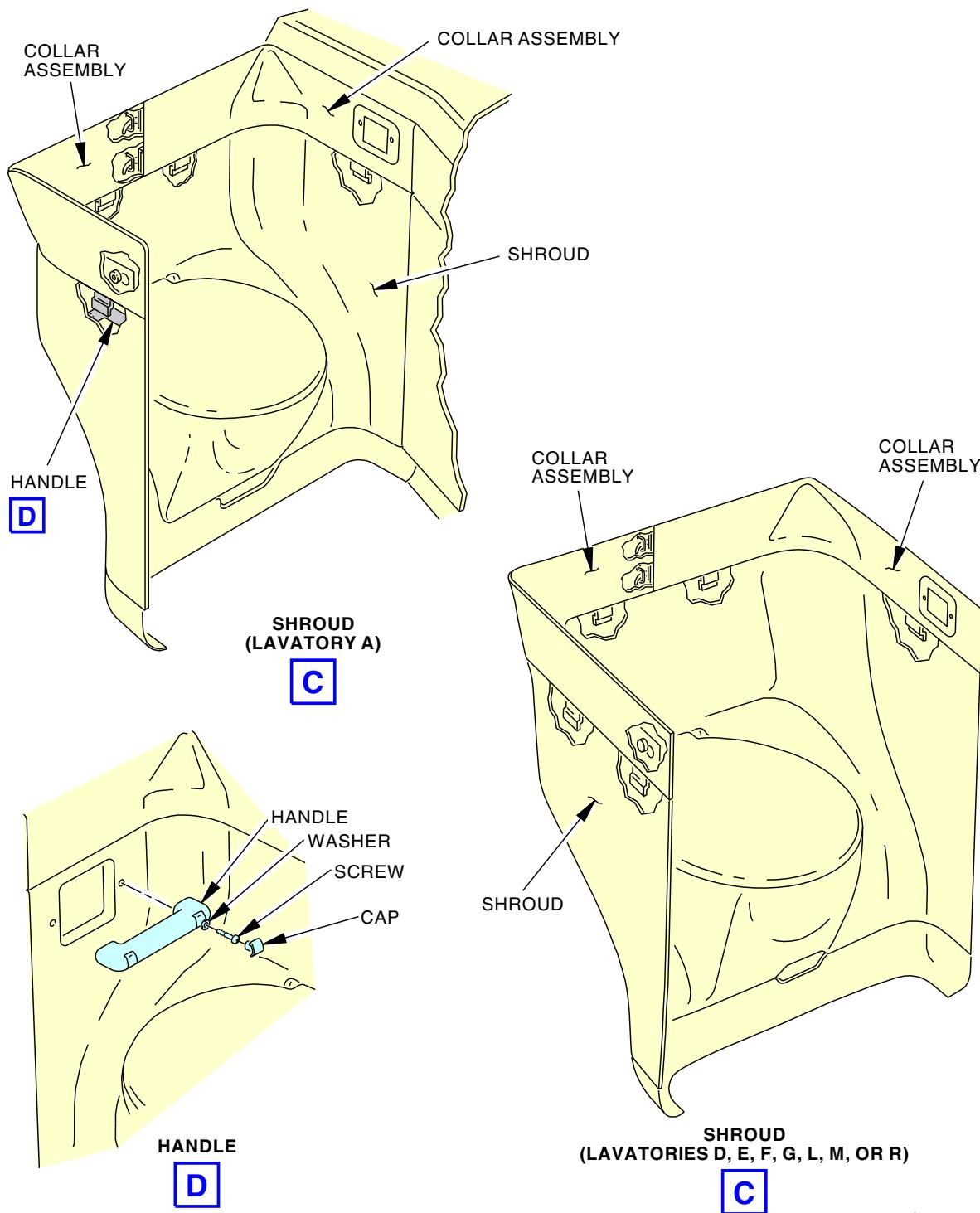
Toilet Shroud Installation
Figure 401/38-32-01-990-821-001 (Sheet 1 of 2)

EFFECTIVITY
LOM 446, 447, 455, 456

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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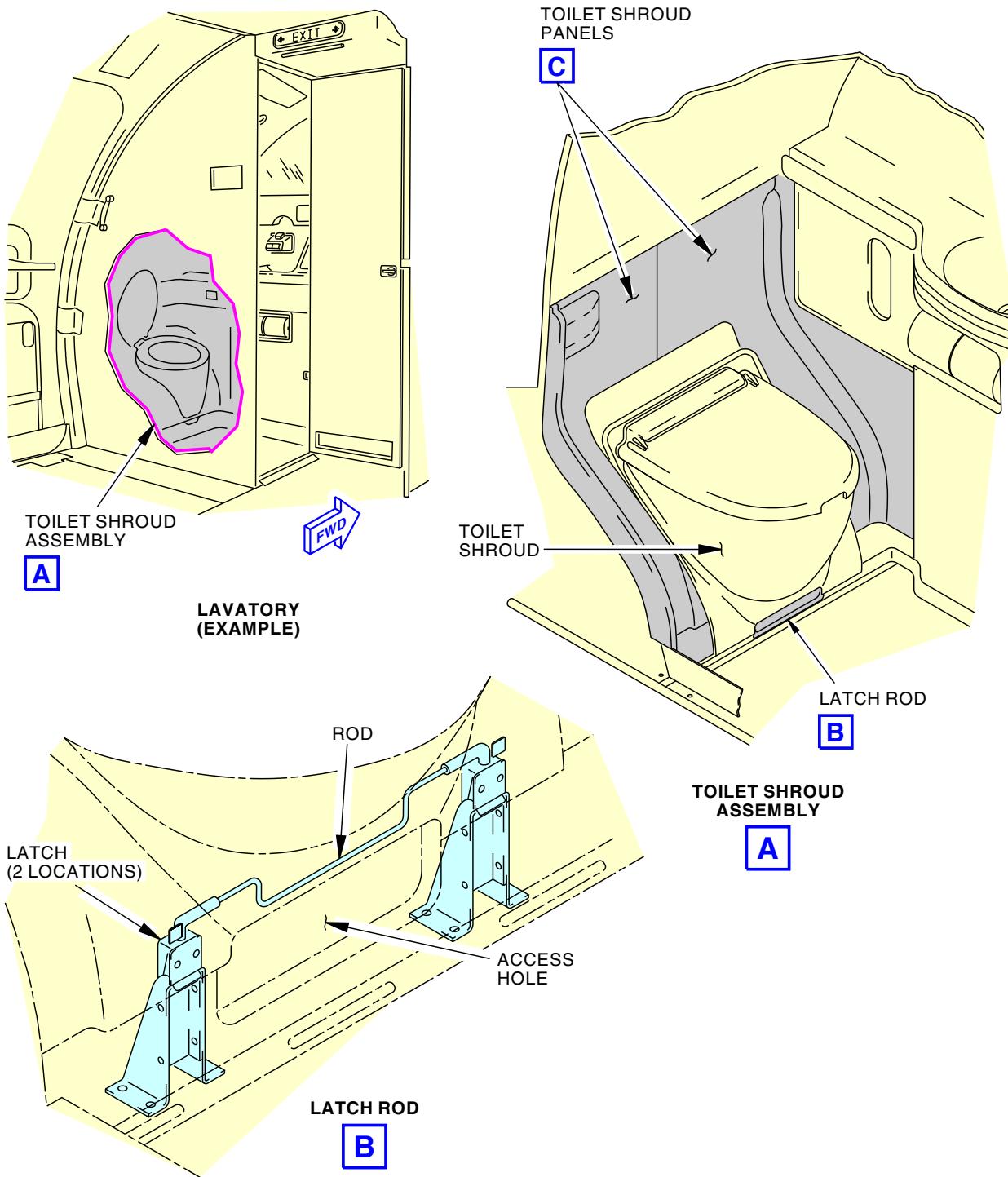
Toilet Shroud Installation
Figure 401/38-32-01-990-821-001 (Sheet 2 of 2)

EFFECTIVITY
LOM 446, 447, 455, 456

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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1421334 S0000256066_V4

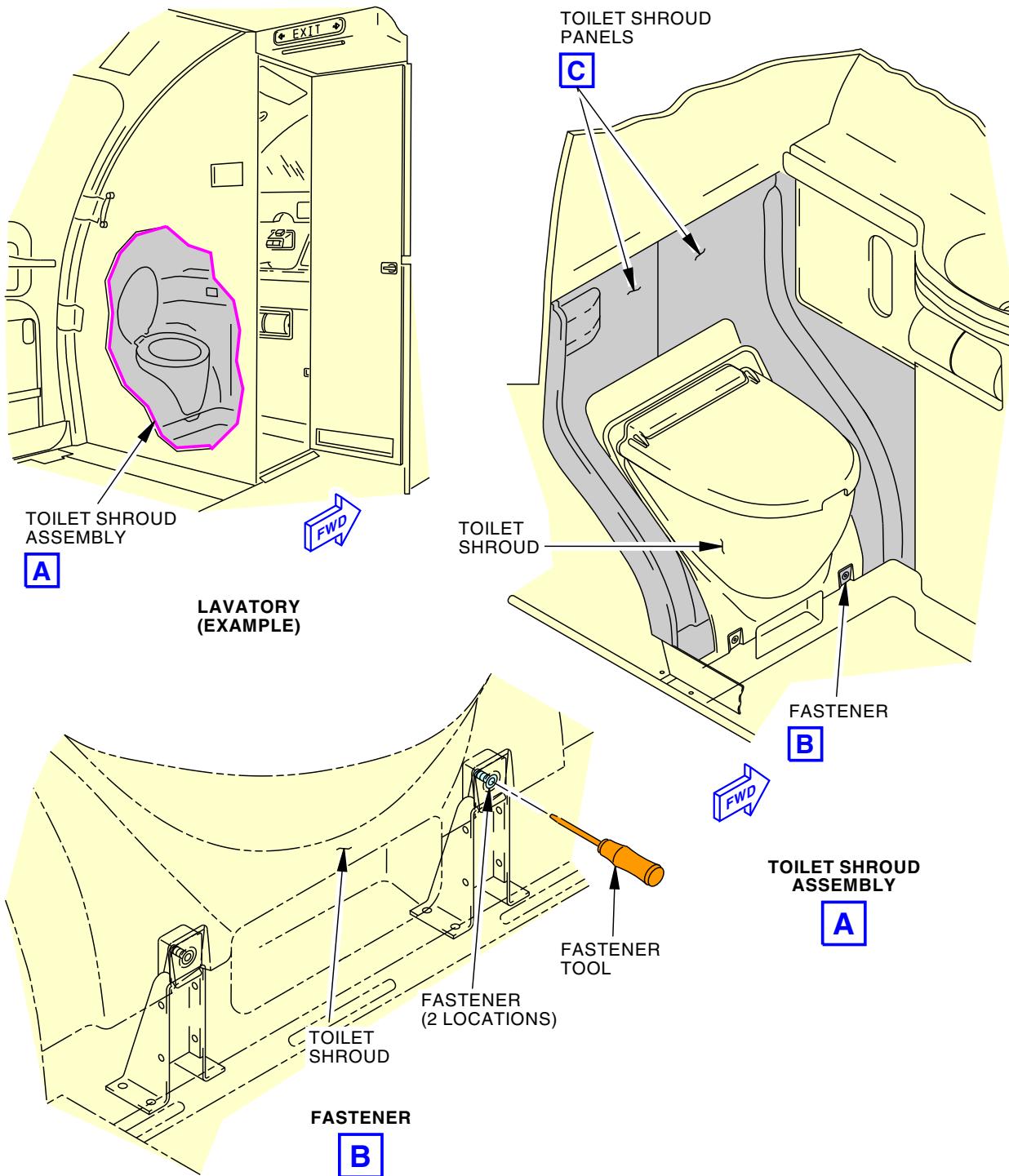
Toilet Shroud Installation
Figure 402/38-32-01-990-822-001 (Sheet 1 of 4)

EFFECTIVITY
LOM 402, 406, 407, 411, 412, 415, 420, 422-425

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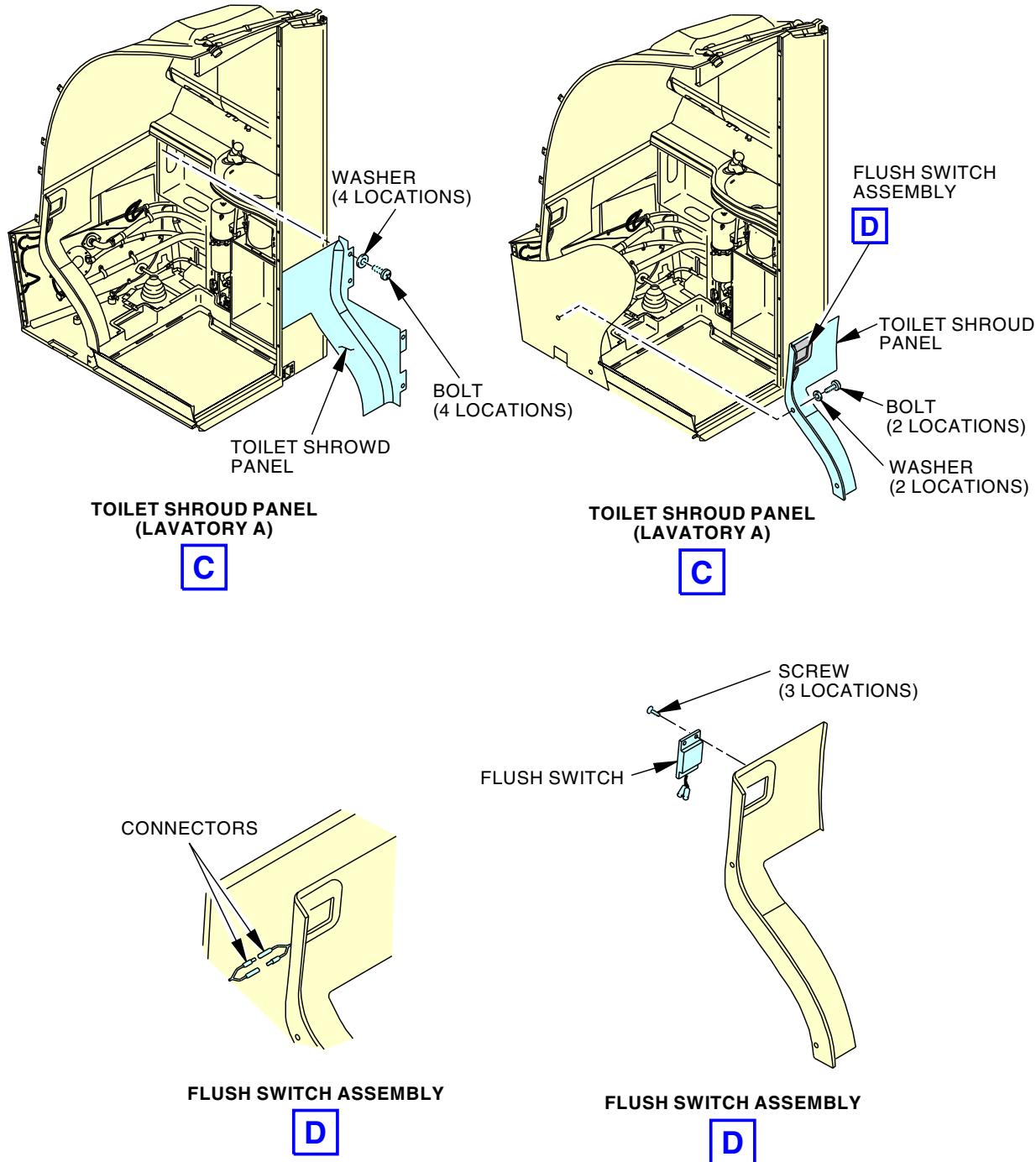
Toilet Shroud Installation
Figure 402/38-32-01-990-822-001 (Sheet 2 of 4)

EFFECTIVITY
LOM 432-434, 437-444, 446, 447, 450-460, 464

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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1910382 S0000325477_V2

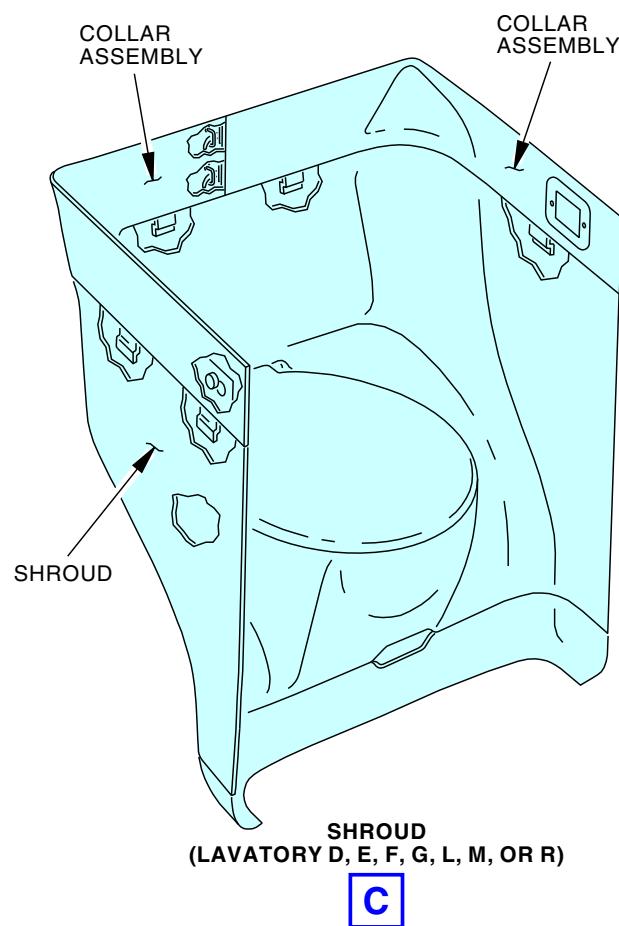
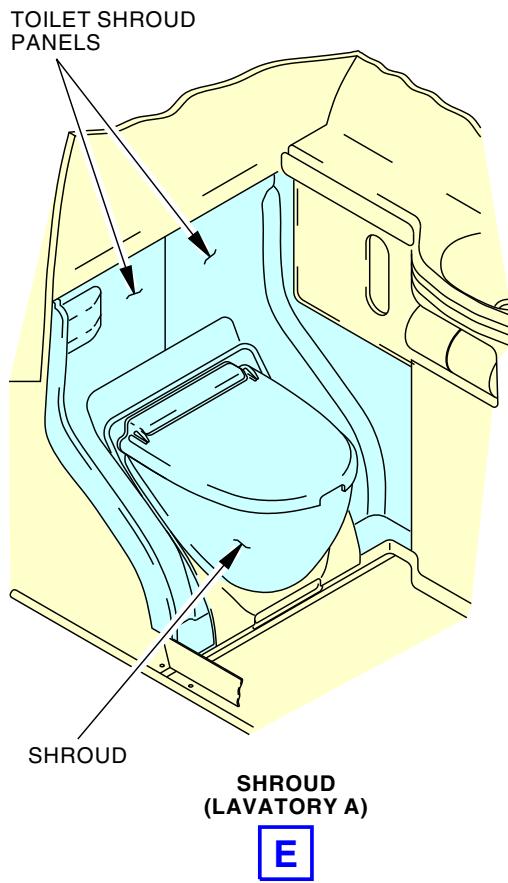
Toilet Shroud Installation
Figure 402/38-32-01-990-822-001 (Sheet 3 of 4)

EFFECTIVITY
 LOM 402, 406, 407, 411, 412, 415, 420, 422-425,
 432-434, 437-444, 446, 447, 450-460, 464

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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1910418 S0000326446_V2

Toilet Shroud Installation
Figure 402/38-32-01-990-822-001 (Sheet 4 of 4)

EFFECTIVITY
LOM 402, 406, 407, 411, 412, 415, 420, 422-425,
432-434, 437-444, 446, 447, 450-460, 464

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TASK 38-32-01-400-801-001

3. Toilet Shroud Installation

(Figure 401 or Figure 402)

A. Location Zones

Zone	Area
200	Upper Half of Fuselage

B. Toilet Shroud Installation

SUBTASK 38-32-01-160-001

- (1) Make sure that the weep holes, in the floor pan below the shroud, are not blocked. Clean the weep holes, as necessary.

LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464

SUBTASK 38-32-01-010-011-001

- (2) To install the toilet shroud, do this task: Lavatory A Shroud Installation, TASK 38-32-01-400-802-001.

SUBTASK 38-32-01-010-014-001

- (3) To install the toilet shroud, do this task: Lavatory D, E, F, G, H K, L, M or R Shroud Installation, TASK 38-32-01-400-804-001.

———— END OF TASK ————

TASK 38-32-01-000-802-001

4. Lavatory A Shroud Removal

(Figure 401 or Figure 402)

A. 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

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Lavatory A Shroud Removal

LOM 446, 447, 455, 456

SUBTASK 38-32-01-020-020-001

- (1) Open and then remove the sink cabinet door to get access to the lavatory water system.

SUBTASK 38-32-01-020-001-001

- (2) Use an allen wrench to loosen the screws and then remove the flush button escutcheon.

SUBTASK 38-32-01-020-002-001

- (3) Remove the collar assembly with the flush button hole.

SUBTASK 38-32-01-020-003-001

- (4) Move the other collar assembly to the center to disengage the knob from the keyhole slot.

EFFECTIVITY
**LOM 402, 406, 407, 411, 412, 415, 420, 422-425,
432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET**

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LOM 446, 447, 455, 456 (Continued)

SUBTASK 38-32-01-020-230-001

- (5) Remove the caps, screws and washers attaching the handle to the sidewall of the shroud.

SUBTASK 38-32-01-020-231-001

- (6) Remove handle from the shroud.

SUBTASK 38-32-01-020-004-001

- (7) Do these steps to remove the toilet shroud:

- (a) Disengage the top edge of the toilet shroud from the trim strip of the lavatory wall.
- (b) Move the toilet shroud up then to your right side and then turn counterclockwise away from the toilet assembly.

LOM 402, 406, 407, 411, 412, 415, 420, 422-425

SUBTASK 38-32-01-020-238

- (8) Do these steps to remove the toilet shroud:

- (a) Push up the latch rod, at the bottom of the toilet shroud, to release the lock.
- (b) Move the toilet shroud down.
- (c) Remove the toilet shroud.

LOM 432-434, 437-444, 446, 447, 450-460, 464

SUBTASK 38-32-01-020-243

- (9) Do these steps to remove the toilet shroud:

- (a) Disengage the tamper proof fasteners at the bottom of the shroud.
 - 1) Put the special screwdriver bit, SPL-13800, on the fastener.
 - 2) Turn slowly until it engages the fastener.
 - 3) Turn until the fastener disengages the shroud.
- (b) Move the toilet shroud down.
- (c) Remove the toilet shroud.

———— END OF TASK ————

LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464

TASK 38-32-01-400-802-001

5. Lavatory A Shroud Installation

(Figure 401 or Figure 402)

A. 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

———— EFFECTIVITY ————
**LOM 402, 406, 407, 411, 412, 415, 420, 422-425,
432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET**

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LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464 (Continued)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Lavatory A Shroud Installation

SUBTASK 38-32-01-160-003

- (1) Make sure that the weep holes, in the floor pan below the shroud, are not blocked. Clean the weep holes, as necessary.

LOM 446, 447, 455, 456

SUBTASK 38-32-01-420-001-001

- (2) Do these steps to install the toilet shroud:
 - (a) Engage the top edge of the toilet shroud with the trim strip of the lavatory wall.
 - (b) Push the toilet shroud into the lavatory wall.
 - (c) Push the toilet shroud down.
 - (d) Make sure the top edge of the toilet shroud is fully engaged on the brackets of the lavatory walls.

SUBTASK 38-32-01-420-002-001

- (3) Install the left collar assembly.
 - (a) Move the collar assembly to engage the knob in the keyhole slot.
 - (b) Push the collar assembly into the lavatory wall until the center engages adjacent to the slot receptacles.

SUBTASK 38-32-01-420-003-001

- (4) Install the collar assembly with the flush button.

SUBTASK 38-32-01-420-004-001

- (5) Install the flush button escutcheon.

SUBTASK 38-32-01-410-047-001

- (6) Position the handle on the shroud sidewall and attach with the screws, washers and caps.

SUBTASK 38-32-01-420-005-001

- (7) Install the sink cabinet door for the lavatory water system.

LOM 402, 406, 407, 411, 412, 415, 420, 422-425

SUBTASK 38-32-01-420-246

- (8) Do these steps to install the toilet shroud.
 - (a) Put the top of the toilet shroud in its position on the toilet surround panel
 - (b) Push the toilet shroud up, to its installed position.
 - (c) Push the bottom of the shroud into the toilet surround panel until it latches.

LOM 432-434, 437-444, 446, 447, 450-460, 464

SUBTASK 38-32-01-400-002

- (9) Do these steps to install the toilet shroud.
 - (a) Put the top of the toilet shroud in its position on the toilet surround panel.
 - (b) Push the toilet shroud up, to its installed position.

EFFECTIVITY
LOM 402, 406, 407, 411, 412, 415, 420, 422-425,
432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET



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LOM 432-434, 437-444, 446, 447, 450-460, 464 (Continued)

- (c) Push the bottom of the shroud into the toilet surround panel until it is in place.
- (d) Engage the tamper proof fasteners at the bottom of the shroud.
 - 1) Put the special screwdriver bit, SPL-13800, on the fastener.
 - 2) Turn slowly until it engages the fastener.
 - 3) Turn until the fastener engages the shroud.

————— END OF TASK ————

LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464

TASK 38-32-01-000-804-001

6. Lavatory D, E, F, G, H, K, L, M or R Shroud Removal

(Figure 401 or Figure 402)

A. 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

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Lavatory D, E, F, G, H, K, L, M or R Shroud Removal

LOM 446, 447, 455, 456

SUBTASK 38-32-01-010-022-001

- (1) Open and then remove the sink cabinet door to get access to the lavatory water system.

SUBTASK 38-32-01-020-011-001

- (2) Use an allen wrench to loosen the screws and then remove the flush button escutcheon.

SUBTASK 38-32-01-020-012-001

- (3) Remove the collar assembly with the flush button hole.

SUBTASK 38-32-01-020-013-001

- (4) Move the collar assembly to disengage the knob from the keyhole slot.

SUBTASK 38-32-01-020-014-001

- (5) Do these steps to remove the toilet shroud:

- (a) Disengage the top edge of the toilet shroud from the trim strip of the lavatory wall.
 - (b) Move the toilet shroud up and then away from the toilet assembly.

LOM 402, 406, 407, 411, 412, 415, 420, 422-425

SUBTASK 38-32-01-020-237

- (6) Do these steps to remove the toilet shroud:

- (a) Push up the latch rod, at the bottom of the toilet shroud, to release the lock.

EFFECTIVITY
**LOM 402, 406, 407, 411, 412, 415, 420, 422-425,
432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET**



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LOM 402, 406, 407, 411, 412, 415, 420, 422-425 (Continued)

- (b) Move the toilet shroud down.
- (c) Remove the toilet shroud.

LOM 432-434, 437-444, 446, 447, 450-460, 464

SUBTASK 38-32-01-020-245

- (7) Do these steps to remove the toilet shroud:

- (a) Disengage the tamper proof fasteners at the bottom of the shroud.
 - 1) Put the special screwdriver bit, SPL-13800, on the fastener.
 - 2) Turn slowly until it engages the fastener.
 - 3) Turn until the fastener disengages the shroud.
- (b) Move the toilet shroud down.
- (c) Remove the toilet shroud.

————— END OF TASK ————

LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464

TASK 38-32-01-400-804-001

7. Lavatory D, E, F, G, H K, L, M or R Shroud Installation

(Figure 401 or Figure 402)

A. 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

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Lavatory D, E, F, G, H, K, L, M or R Shroud Installation

SUBTASK 38-32-01-160-005

- (1) Make sure that the weep holes, in the floor pan below the shroud, are not blocked. Clean the weep holes, as necessary.

LOM 446, 447, 455, 456

SUBTASK 38-32-01-420-013-001

- (2) Do these steps to install the toilet shroud:

- (a) Engage the top edge of the toilet shroud with the trim strip of the lavatory wall.
- (b) Push the toilet shroud into the lavatory wall.
- (c) Push the toilet shroud down.
- (d) Make sure that the top edge of the toilet shroud is fully engaged on the brackets of the lavatory walls.

EFFECTIVITY
**LOM 402, 406, 407, 411, 412, 415, 420, 422-425,
432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET**

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LOM 446, 447, 455, 456 (Continued)

SUBTASK 38-32-01-420-014-001

- (3) Install the left collar assembly.
 - (a) Move the collar assembly to engage the knob in the keyhole slot.
 - (b) Push the collar assembly into the lavatory wall until the center engages adjacent to the slot receptacles.

SUBTASK 38-32-01-420-015-001

- (4) Install the collar assembly with the flush button hole.

SUBTASK 38-32-01-420-016-001

- (5) Install the flush button escutcheon.

LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464

SUBTASK 38-32-01-420-017-001

- (6) Install the sink cabinet door for the lavatory water system.

LOM 402, 406, 407, 411, 412, 415, 420, 422-425

SUBTASK 38-32-01-420-247

- (7) Do these steps to install the toilet shroud.
 - (a) Put the top of the toilet shroud in its position on the toilet surround panel
 - (b) Push the toilet shroud up, to its installed position.
 - (c) Push the bottom of the shroud into the toilet surround panel until it latches.

LOM 432-434, 437-444, 446, 447, 450-460, 464

SUBTASK 38-32-01-420-254

- (8) Do these steps to install the toilet shroud.
 - (a) Put the top of the toilet shroud in its position on the toilet surround panel.
 - (b) Push the toilet shroud up, to its installed position.
 - (c) Push the bottom of the shroud into the toilet surround panel until it is in place.
 - (d) Engage the tamper proof fasteners at the bottom of the shroud.
 - 1) Put the special screwdriver bit, SPL-13800, on the fastener.
 - 2) Turn slowly until it engages the fastener.
 - 3) Turn until the fastener engages the shroud.

LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464; AIRPLANES WITH MONOGRAM TOILET

———— END OF TASK ————

TASK 38-32-01-000-805-001

8. Vacuum Toilet Assembly Removal

(Figure 403)

A. References

Reference	Title
38-32-00-910-801	Standard Practices for Work with the Toilet Waste and Equipment (P/B 201)

EFFECTIVITY
**LOM 402, 406, 407, 411, 412, 415, 420, 422-425,
432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET**



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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-1946	Plug - Vacuum Waste System Part #: A38007-9 Supplier: 81205

C. Consumable Materials

Reference	Description	Specification
D00189	Compound - Molykote 111 (Formerly Dow Corning 111, Valve Sealant and Lubricant)	
D00463	Grease - Food Processing Equipment	DOD-G-24650

D. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage

E. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

F. Prepare for the Removal

SUBTASK 38-32-01-010-023-001

- (1) Get access to the lavatory for the toilet removal.

SUBTASK 38-32-01-010-196-001

- (2) To get access to the P91 panel, open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 38-32-01-040-001-001



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.



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) Open this circuit breaker and install safety tag:

Power Distribution Panel Number 1, P91

Row	Col	Number	Name
C	11	C01388	VACUUM WASTE CONT

EFFECTIVITY
 LOM 402, 406, 407, 411, 412, 415, 420, 422-425,
 432-434, 437-444, 446, 447, 450-460, 464;
 AIRPLANES WITH MONOGRAM TOILET

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SUBTASK 38-32-01-860-001-001

- (4) Set the water shutoff valve for the lavatory to the FAUCET ONLY or SHUTOFF position.

SUBTASK 38-32-01-910-002-001

- (5) Do this task: Standard Practices for Work with the Toilet Waste and Equipment, TASK 38-32-00-910-801.

SUBTASK 38-32-01-010-024-001

- (6) To remove the toilet shroud, do this task: Toilet Shroud Removal, TASK 38-32-01-000-801-001.

G. Vacuum Toilet Assembly Removal

SUBTASK 38-32-01-020-015-001

- (1) Remove the electrical connector [3] to disconnect the flush control assembly of the vacuum toilet assembly.

SUBTASK 38-32-01-020-016-001

- (2) Disconnect the rinse water supply connection [4].

SUBTASK 38-32-01-680-001-001

- (3) Drain the water supply line into a container.

SUBTASK 38-32-01-020-017-001

- (4) Remove the nut [15] and washer [16] to disconnect the bonding jumper [14].

- (a) Install the nut [15] and washer [16] back to the toilet assembly [11].

SUBTASK 38-32-01-020-018-001

- (5) Remove the screws [13] and clamps [12] that attach the electrical wires to the lavatory wall.

- (a) Put the screws [13] and clamps [12] back in their position on the lavatory wall.

SUBTASK 38-32-01-020-019-001

- (6) Remove the coupling [6] that attaches the discharge drain [5] to the vacuum waste line [8].

SUBTASK 38-32-01-020-020-001

- (7) Remove the sleeve [7] and packings [9].

- (a) Disconnect the discharge drain [5].

SUBTASK 38-32-01-020-022-001

- (8) Remove the bolts [10] and washers [17] that attach the toilet assembly [11] to the lavatory floor.

SUBTASK 38-32-01-020-023-001

- (9) Remove the toilet assembly [11].

SUBTASK 38-32-01-020-024-001

- (10) If the vacuum waste system will be operated while the toilet is removed, then do these steps (to install a plug in the vacuum waste line):

- (a) Apply the grease, D00463, or Molykote 111 Compound, D00189, to the packing [9] on the waste line vacuum waste plug, SPL-1946.

- (b) Apply the grease, D00463, or Molykote 111 Compound, D00189, to the packing [9] on the vacuum waste line [8].

- (c) Put the waste line vacuum waste plug, SPL-1946, in the vacuum waste line [8].

- (d) Attach the waste line plug to the vacuum waste line [8] with the coupling [6].

— END OF TASK —

EFFECTIVITY
LOM 402, 406, 407, 411, 412, 415, 420, 422-425,
432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET

ECCN 9E991 BOEING PROPRIETARY - See title page for details

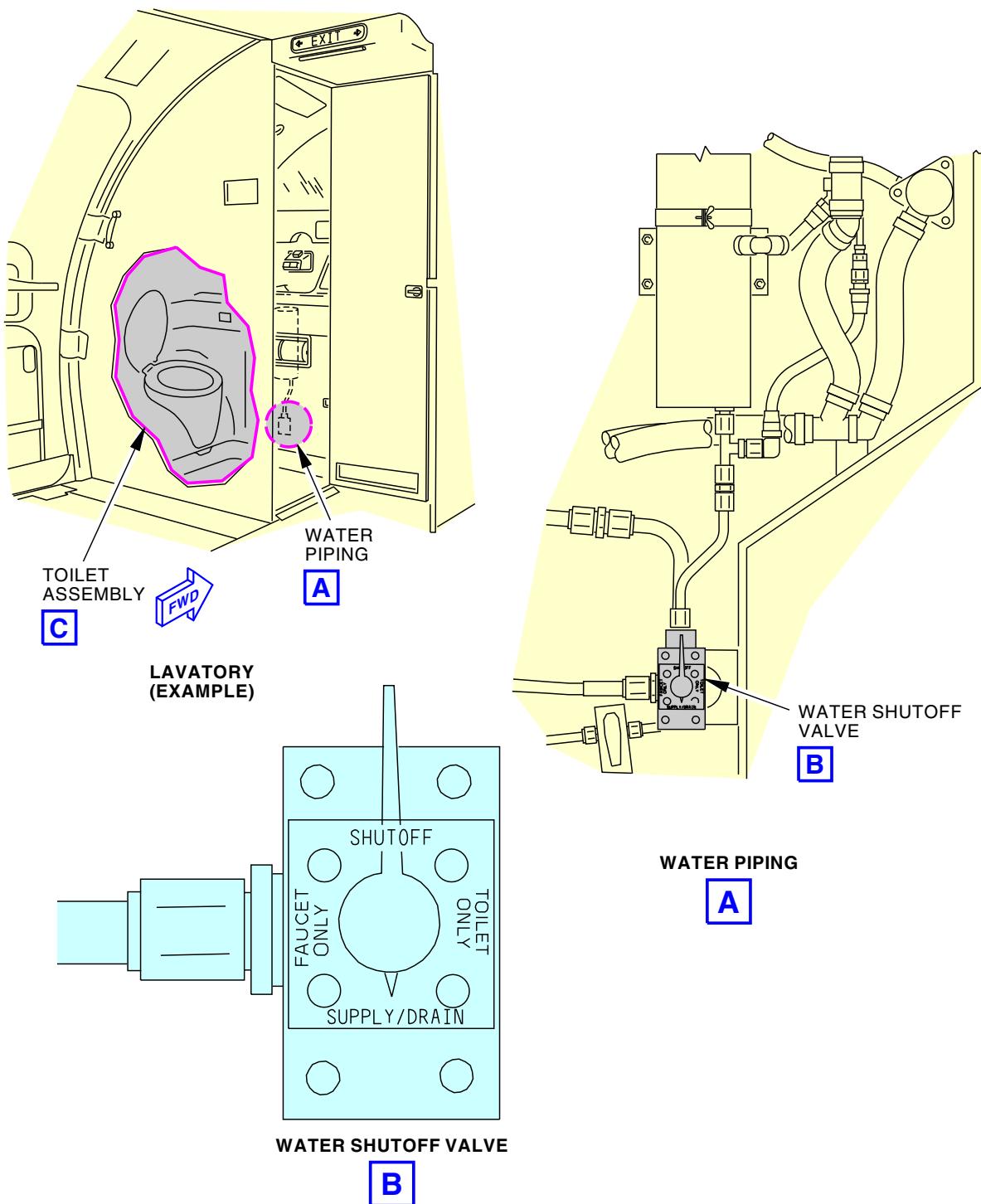
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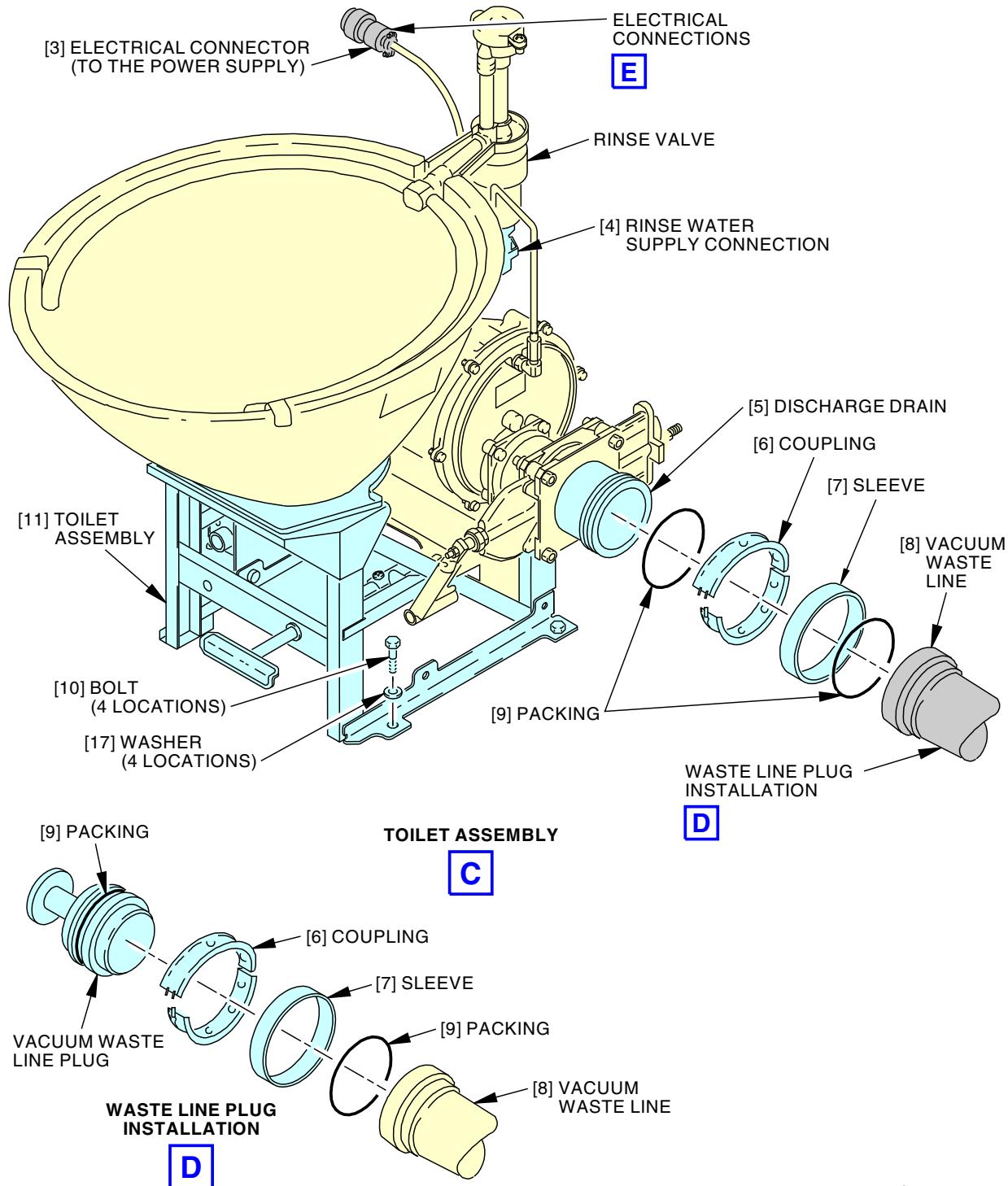
Toilet Assembly Installation
Figure 403/38-32-01-990-831-001 (Sheet 1 of 3)

EFFECTIVITY
 LOM 402, 406, 407, 411, 412, 415, 420, 422-425,
 432-434, 437-444, 446, 447, 450-460, 464;
 AIRPLANES WITH MONOGRAM TOILET

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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Toilet Assembly Installation
Figure 403/38-32-01-990-831-001 (Sheet 2 of 3)

EFFECTIVITY
LOM 402, 406, 407, 411, 412, 415, 420, 422-425,
432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET

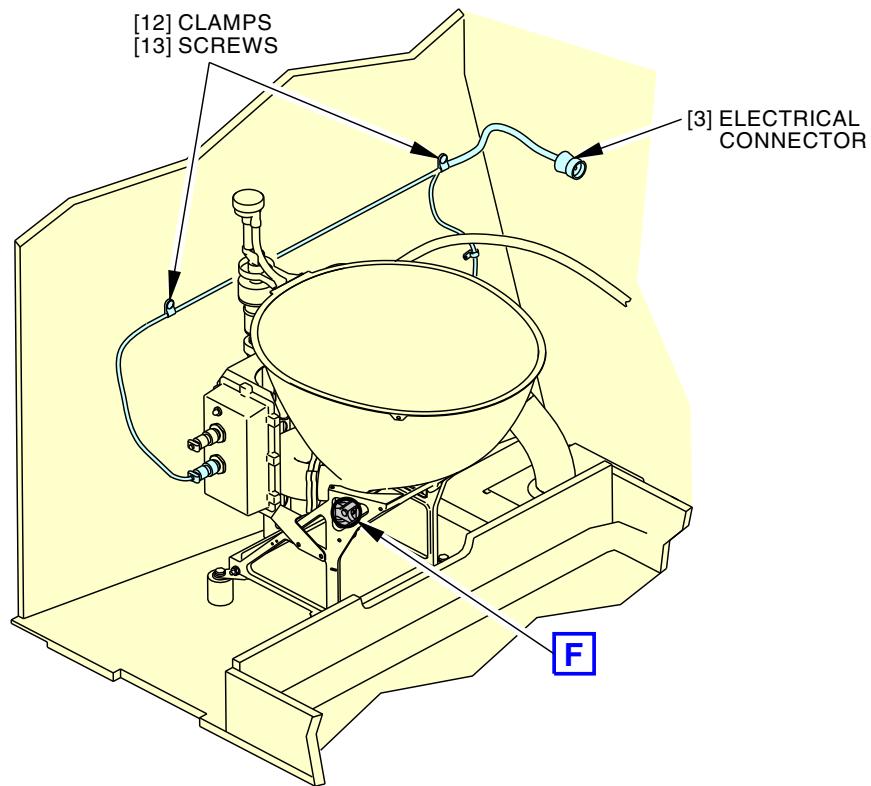
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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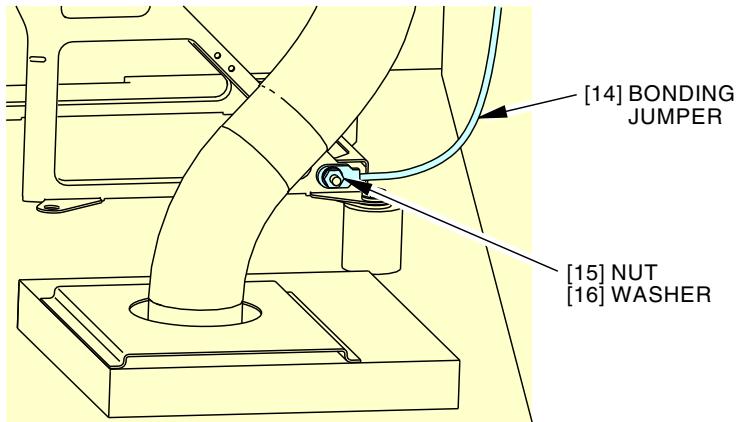


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ELECTRICAL CONNECTIONS

E



F

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Toilet Assembly Installation
Figure 403/38-32-01-990-831-001 (Sheet 3 of 3)

EFFECTIVITY
LOM 402, 406, 407, 411, 412, 415, 420, 422-425,
432-434, 437-444, 446, 447, 450-460, 464

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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TASK 38-32-01-400-805-001

9. Vacuum Toilet Assembly Installation

(Figure 403)

A. References

Reference	Title
12-14-01-600-802	Potable Water Tank - Fill (P/B 301)
24-22-00-860-811	Supply Electrical Power (P/B 201)
SWPM 20-20-00	ELECTRICAL BONDING PROCESSES
SWPM 20-20-10	Replacement of Ground Studs and Bonding Jumper Installation

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-614	Bonding Meters - Non-Intrinsically Safe (For use in outside Class I, Divisions I & II non-hazardous locations. For hazardous locations, use COM-1550). Part #: 247000 Supplier: 00426 Part #: 620LK Supplier: 1CRL2 Part #: BLR-0003-XX Supplier: KC432 Part #: BT51 Supplier: 00426 Part #: M1 Supplier: 3AD17 Part #: M1B Supplier: 3AD17 Part #: T477W (C15292) Supplier: 06659 Opt Part #: 247001 Supplier: 00426
SPL-1946	Plug - Vacuum Waste System Part #: A38007-9 Supplier: 81205

C. Consumable Materials

Reference	Description	Specification
A50231	Sealant - Pressure And Environmental - Chromate Type	BMS5-95 Class B
A50337	Sealant - Fuel Tank	BMS5-45 Class B
A50359	Sealant - Low Density, Non-Chromate Type	BMS5-142 Type II Class B
B00184	Solvent - Presealing, Cleaning Solvent	BMS11-7
D00189	Compound - Molykote 111 (Formerly Dow Corning 111, Valve Sealant and Lubricant)	
D00463	Grease - Food Processing Equipment	DOD-G-24650
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	AMS3819 Class 1 Grade A or B Form 1 (Supersedes BMS15-5 CL A)

EFFECTIVITY
LOM 402, 406, 407, 411, 412, 415, 420, 422-425,
432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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D. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
9	Packing	25-40-00-24-015	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		25-40-00-24-215	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		25-40-00-24-415	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
11	Toilet assembly	38-32-01-01-025	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-07-030	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-07A-030	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464

E. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage

F. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

G. Toilet Assembly Installation

SUBTASK 38-32-01-420-018-001

- (1) If a plug is installed in the vacuum waste line [8], then do these steps to remove the waste line plug:
 - (a) Remove the coupling [6] that attaches the waste line vacuum waste plug, SPL-1946, to the vacuum waste line [8].
 - (b) Pull the vacuum waste plug, SPL-1946, from the vacuum waste line [8].

SUBTASK 38-32-01-640-001-001

- (2) Put grease, D00463, or Molykote 111 Compound, D00189, on the new packings [9].

SUBTASK 38-32-01-420-019-001

- (3) Put the packings [9] on the vacuum waste line [8] and discharge drain [5].

SUBTASK 38-32-01-420-020-001

- (4) Put the toilet assembly [11] in its position.

EFFECTIVITY
**LOM 402, 406, 407, 411, 412, 415, 420, 422-425,
 432-434, 437-444, 446, 447, 450-460, 464;
 AIRPLANES WITH MONOGRAM TOILET**

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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SUBTASK 38-32-01-420-021-001

- (5) Put the bolts [10] and washers [17] in the installed position, but do not tighten.

SUBTASK 38-32-01-420-023-001

- (6) Install the sleeve [7] and coupling [6] to connect the vacuum waste line [8] to the discharge drain [5].

NOTE: Turn the clamp (before you latch it) to put it in a position that will give the easiest access to the latch.

SUBTASK 38-32-01-420-024-001

- (7) Tighten the bolts [10] for the toilet.

SUBTASK 38-32-01-110-001-001

- (8) Do this task: Rinse Water Supply Cleaning, TASK 38-32-01-100-801-001.

SUBTASK 38-32-01-420-025-001

- (9) Connect the rinse water supply connection [4] to the rinse valve.

SUBTASK 38-32-01-420-026-001

- (10) Remove the nut [15] and washer [16] to connect the bonding jumper [14] to the toilet assembly [11].

- (a) Install the nut [15] and washer [16] to connect the bonding jumper [14] to the toilet assembly [11].

1) Use cotton wiper, G00034, moist in solvent, B00184, to clean the mating surfaces of the ground stud, nut [15], washer [16], and bonding jumper [14].

2) Install the bonding jumper [14], washer [16], and nut [15].

3) Tighten the nut [15] to 33 in-lb (4 N·m) - 40 in-lb (5 N·m).

4) Measure the electrical resistance between the bonding jumper [14] and toilet structure (SWPM 20-20-00).

a) Use a non-intrinsically safe bonding meter, COM-614.

b) Make sure that the electrical bonding resistance is 0.0015 ohm (1.5 milliohm) or less.

5) Apply a fillet seal with sealant, A50337, sealant, A50231, or sealant, A50359, to cover the nut [15], washer [16], and bonding jumper [14] (SWPM 20-20-10).

SUBTASK 38-32-01-420-027-001

- (11) Install the screws [13] and clamps [12] that attach the electrical wires to the lavatory wall.

SUBTASK 38-32-01-420-028-001

- (12) Connect the electrical connector [3] to the power supply for the toilet.

H. Vacuum Toilet Assembly Installation Test

SUBTASK 38-32-01-040-002-001



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.

EFFECTIVITY
LOM 402, 406, 407, 411, 412, 415, 420, 422-425,
432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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(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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT

SUBTASK 38-32-01-410-059-001

- (2) Close this access panel:

Number Name/Location

117A	Electronic Equipment Access Door
------	----------------------------------

SUBTASK 38-32-01-860-002-001

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

SUBTASK 38-32-01-860-003-001

- (4) Set the water shutoff valve for the lavatory to the SUPPLY/DRAIN position.

SUBTASK 38-32-01-610-001-001

- (5) If the potable water tank is empty, then do this task: Potable Water Tank - Fill, TASK 12-14-01-600-802.

SUBTASK 38-32-01-710-001-001

- (6) Flush the toilet a minimum of two times to make sure that it operates correctly.

SUBTASK 38-32-01-700-006-001

- (7) Make sure that the toilet assembly [11] and its connections do not leak.

- (a) If there are leaks, check for damaged parts or loose connections.

I. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-01-410-001-001

- (1) To install the toilet shroud, do this task: Toilet Shroud Installation, TASK 38-32-01-400-801-001.

————— END OF TASK ————

TASK 38-32-01-000-806-001

10. Flush Control Assembly Removal

(Figure 404)

A. References

Reference	Title
20-40-12-000-801	ESDS Handling for Printed Circuit Board Removal (P/B 201)

B. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage

EFFECTIVITY
LOM 402, 406, 407, 411, 412, 415, 420, 422-425,
432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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C. Access Panels

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

D. Prepare for the Removal

SUBTASK 38-32-01-010-025-001

- (1) Get access to the lavatory for the toilet removal.

SUBTASK 38-32-01-010-224-001

- (2) Open this access panel:

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

SUBTASK 38-32-01-040-003-001



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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT

SUBTASK 38-32-01-860-004-001

- (4) Set the water shutoff valve for the lavatory to the FAUCET ONLY or SHUTOFF position (Figure 403).

SUBTASK 38-32-01-010-026-001

- (5) To remove the toilet shroud, do this task: Toilet Shroud Removal, TASK 38-32-01-000-801-001.

E. Flush Control Assembly Removal

SUBTASK 38-32-01-020-025-001

- (1) Disconnect the electrical connector [33] from the power supply of the toilet.

SUBTASK 38-32-01-020-026-001

- (2) Disconnect the electrical connectors [40] for the rinse valve, flush valve motor, and flush valve at the flush control assembly [30].

EFFECTIVITY
LOM 402, 406, 407, 411, 412, 415, 420, 422-425,
432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET

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**LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILETS P/N 15800-019.**

SUBTASK 38-32-01-020-027-001

- (3) Remove the nut [47] and washer [46] to disconnect the ground connection [44] from the ground stud.

**LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET**

SUBTASK 38-32-01-020-028-001

- (4) Remove the bolts [37], nuts [39], and washers [38] that attach the mounting plate [35] of the flush control assembly [30] to the toilet pedestal.

SUBTASK 38-32-01-020-029-001

- (5) Remove the flush control assembly [30].

SUBTASK 38-32-01-020-030-001



CAUTION DO NOT DISASSEMBLE THE FLUSH CONTROL ASSEMBLY BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE PC BOARD.

- (6) If it is necessary, do the steps that follow to remove the PC board from the flush control assembly:
 - (a) Do this task: ESDS Handling for Printed Circuit Board Removal, TASK 20-40-12-000-801.

**LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILETS P/N 15800-019.**

- (b) Remove the screws [31] and washers [32] for the cover [43].

**LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET**

- (c) Remove the screws [31] and nuts [146] for the cover [43].

**LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET**

- (d) Remove the cover [43] and seal [41] from the mounting plate [35].

- (e) Remove the PC board [42] from the mounting plate [35].

— END OF TASK —

EFFECTIVITY
**LOM 402, 406, 407, 411, 412, 415, 420, 422-425,
432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET**

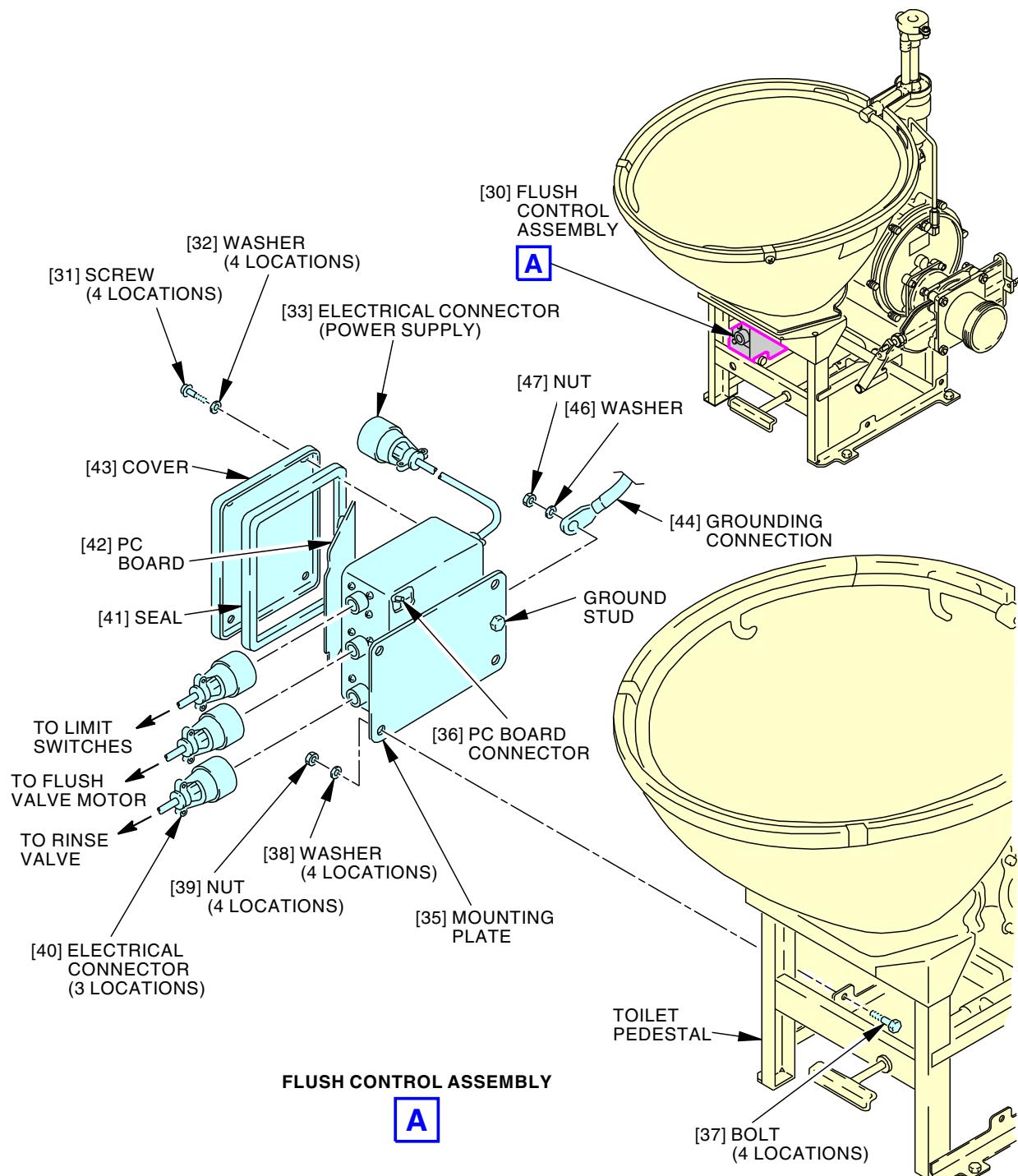
ECCN 9E991 BOEING PROPRIETARY - See title page for details

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Flush Control Assembly Installation
Figure 404/38-32-01-990-803-001 (Sheet 1 of 2)

EFFECTIVITY
LOM 402, 406, 407, 411, 412, 415, 420, 422-425,
432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILETS P/N
15800-019.

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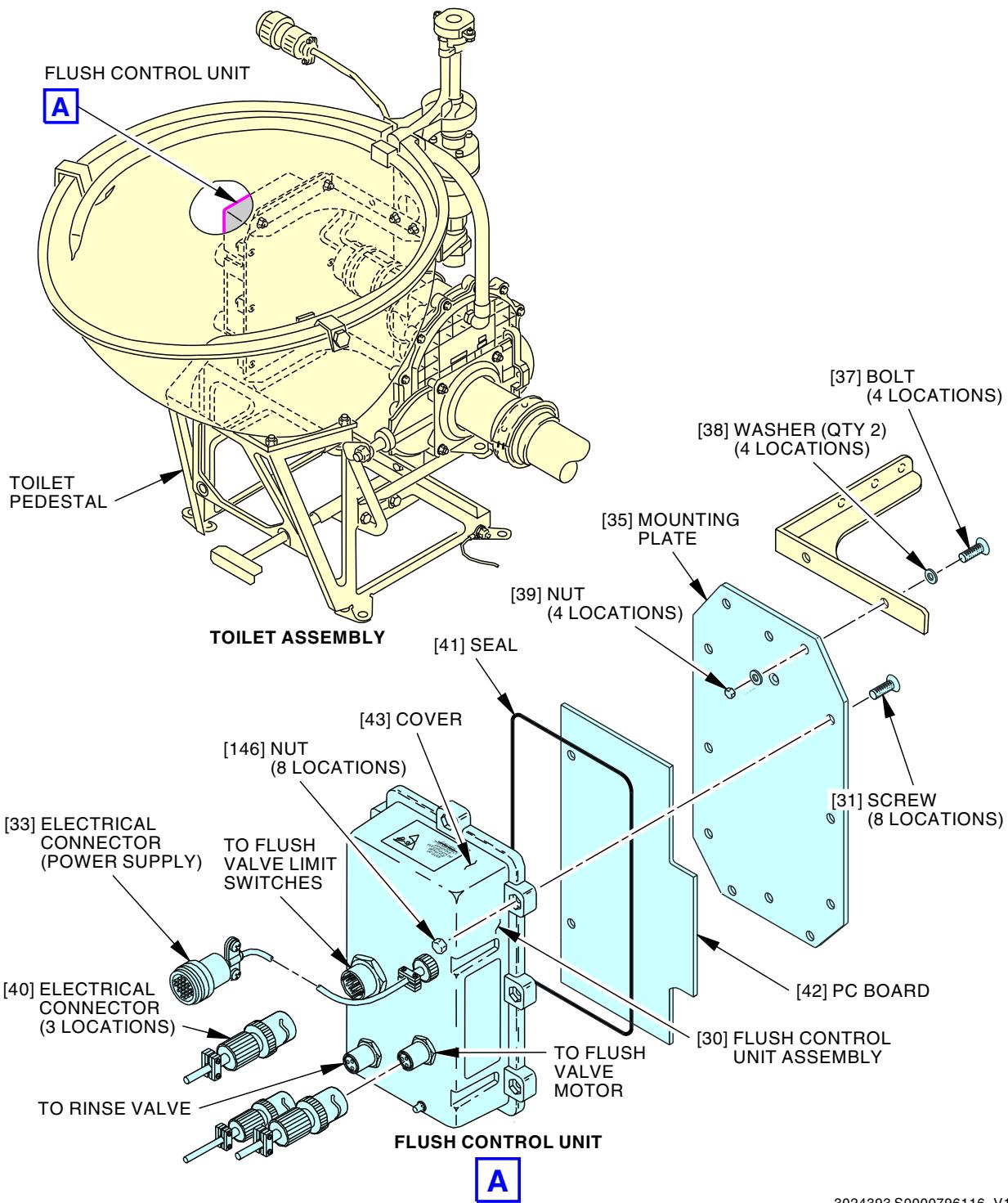
ECCN 9E991 BOEING PROPRIETARY - See title page for details

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Flush Control Assembly Installation
Figure 404/38-32-01-990-803-001 (Sheet 2 of 2)

EFFECTIVITY
 LOM 402, 406, 407, 411, 412, 415, 420, 422-425,
 432-434, 437-444, 446, 447, 450-460, 464;
 AIRPLANES WITH MONOGRAM TOILETS P/N
 15800-029.

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TASK 38-32-01-400-806-001

11. **Flush Control Assembly Installation**

(Figure 404)

A. **References**

Reference	Title
12-14-01-600-802	Potable Water Tank - Fill (P/B 301)
20-40-12-400-801	ESDS Handling for Printed Circuit Board Installation (P/B 201)
24-22-00-860-811	Supply Electrical Power (P/B 201)
38-42-00-800-802	Potable Water System - Activation (P/B 201)

B. **Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
30	Flush control assembly	38-32-01-51-165	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-51C-035	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-51D-035	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-55-245	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-55C-155	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-55D-155	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
41	Seal	38-32-01-52-030	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-56-095	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
42	PC board	38-32-01-52-295	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464

EFFECTIVITY
LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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(Continued)

AMM Item	Description	AIPC Reference	AIPC Effectivity
42 (cont.)		38-32-01-56-165	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464

C. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage

D. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

E. Flush Control Assembly Installation

SUBTASK 38-32-01-420-029-001



CAUTION

DO NOT ASSEMBLE THE FLUSH CONTROL ASSEMBLY BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE PC BOARD.

- (1) If it is not installed, then do these steps to install the PC board:

- (a) Do this task: ESDS Handling for Printed Circuit Board Installation, TASK 20-40-12-400-801.

LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464; AIRPLANES WITH MONOGRAM TOILETS P/N 15800-019.

- (b) Put the PC board [42] in its position in the mounting plate [35] and then connect it to its PC board connector [36].

LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464; AIRPLANES WITH MONOGRAM TOILETS P/N 15800-029.

- (c) Put the PC board [42] in its position in the mounting plate [35].

LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464; AIRPLANES WITH MONOGRAM TOILET

- (d) Put the seal [41] and cover [43] in their position around the edge of the mounting plate [35].

LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464; AIRPLANES WITH MONOGRAM TOILETS P/N 15800-019.

- (e) Install the screws [31] and washers [32].

LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464; AIRPLANES WITH MONOGRAM TOILETS P/N 15800-029.

- (f) Install the screws [31] and nuts [146].

LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464; AIRPLANES WITH MONOGRAM TOILET

SUBTASK 38-32-01-420-030-001

- (2) Put the flush control assembly [30] in its position on the toilet assembly.

EFFECTIVITY
LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464; AIRPLANES WITH MONOGRAM TOILET



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- (a) Install the bolts [37], washers [38], and nuts [39] that attach the flush control assembly [30] to the toilet assembly.

**LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILETS P/N 15800-019.**

- (b) Install the washer [46] and nut [47] to connect the ground connection [44] to the ground stud.

**LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET**

SUBTASK 38-32-01-420-031-001

- (3) Connect the electrical connectors [40] for the rinse valve, flush valve motor, and flush valve to the flush control assembly [30].

SUBTASK 38-32-01-420-032-001

- (4) Connect the electrical connector [33] for the power supply for the toilet.

F. Flush Control Assembly Installation Test

SUBTASK 38-32-01-040-004-001



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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT

SUBTASK 38-32-01-410-061-001

- (2) Close this access panel:

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

SUBTASK 38-32-01-860-005-001

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

SUBTASK 38-32-01-860-006-001

- (4) Set the water shutoff valve for the lavatory to the SUPPLY/DRAIN position.

SUBTASK 38-32-01-610-002-001

- (5) If the potable water tank is empty, then do this task: Potable Water Tank - Fill, TASK 12-14-01-600-802.

EFFECTIVITY
**LOM 402, 406, 407, 411, 412, 415, 420, 422-425,
432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET**



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SUBTASK 38-32-01-860-007-001

- (6) Do this task: Potable Water System - Activation, TASK 38-42-00-800-802.

SUBTASK 38-32-01-710-002-001

- (7) Flush the toilet a minimum of two times to make sure it operates correctly.

G. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-01-410-002-001

- (1) To install the toilet shroud, do this task: Toilet Shroud Installation, TASK 38-32-01-400-801-001.

————— END OF TASK ————

TASK 38-32-01-000-807-001

12. Manual Shutoff Valve Removal

(Figure 405)

A. References

Reference	Title
38-32-00-910-801	Standard Practices for Work with the Toilet Waste and Equipment (P/B 201)

B. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage

C. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

D. Prepare for the Removal

SUBTASK 38-32-01-010-027-001

- (1) Get access to the lavatory for the toilet removal.

SUBTASK 38-32-01-010-197-001

- (2) Open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 38-32-01-040-005-001



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.

EFFECTIVITY
LOM 402, 406, 407, 411, 412, 415, 420, 422-425,
432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET

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(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) Open this circuit breaker and install safety tag:

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT

SUBTASK 38-32-01-860-008-001

- (4) Set the water shutoff valve for the lavatory to the FAUCET ONLY or SHUTOFF position (Figure 403).

SUBTASK 38-32-01-910-003-001

- (5) Do this task: Standard Practices for Work with the Toilet Waste and Equipment, TASK 38-32-00-910-801.

SUBTASK 38-32-01-010-028-001

- (6) To remove the toilet shroud, do this task: Toilet Shroud Removal, TASK 38-32-01-000-801-001.

SUBTASK 38-32-01-010-029-001

- (7) If it is necessary for better access, do this task: Vacuum Toilet Assembly Removal, TASK 38-32-01-000-805-001.

E. Manual Shutoff Valve Removal

SUBTASK 38-32-01-020-031-001

- (1) Remove the nut [81] and washer [80] that attach the shaft of the manual shutoff valve assembly [74] to the actuating arm [79].

SUBTASK 38-32-01-020-032-001

- (2) Pull the handle for the manual shutoff valve out to disengage the actuating arm [79] from the shaft on the manual shutoff valve assembly [74].

SUBTASK 38-32-01-020-033-001

- (3) Remove the washer [78] from the shaft of the manual shutoff valve assembly [74].

SUBTASK 38-32-01-020-034-001

- (4) Remove the coupling [6] that attaches the discharge drain [5] to the vacuum waste line [8].

LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464

SUBTASK 38-32-01-020-232

- (5) Remove the bolts [145], nuts [143], and washers [144] that attach the manual shutoff valve assembly [74] to the flush valve assembly [66].

**LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET**

SUBTASK 38-32-01-020-036-001

- (6) Remove the discharge drain [5] and seal [77] from the manual shutoff valve assembly [74].

EFFECTIVITY
**LOM 402, 406, 407, 411, 412, 415, 420, 422-425,
432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET**



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LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464

SUBTASK 38-32-01-020-233

- (7) Remove the manual shutoff valve assembly [74], seal [77], and discharge drain [5] from the flush valve assembly [66].

**LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET**

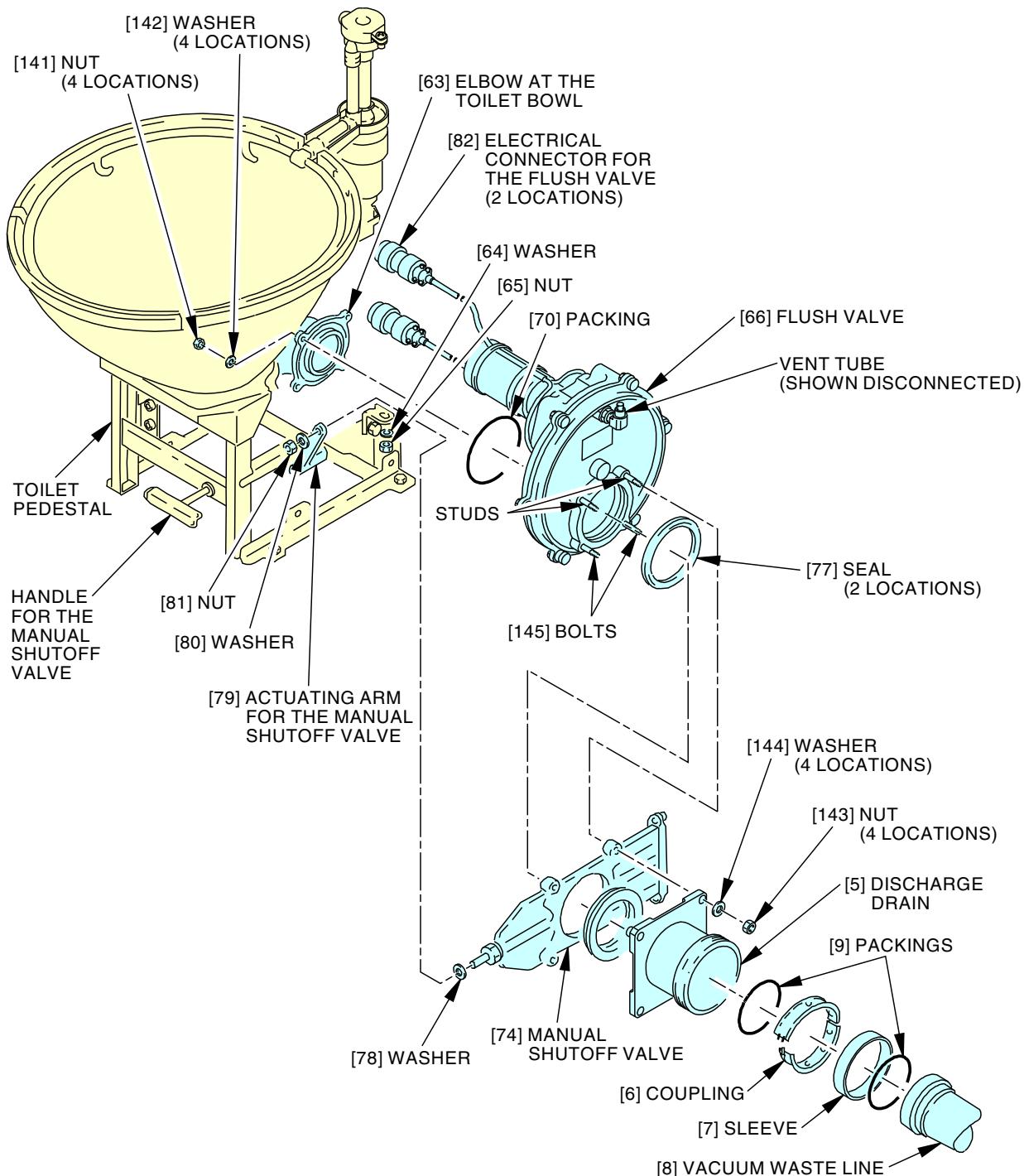
———— END OF TASK ————

— EFFECTIVITY —
**LOM 402, 406, 407, 411, 412, 415, 420, 422-425,
432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET**

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FLUSH VALVE AND MANUAL SHUTOFF VALVE

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**Manual Shutoff Valve and Flush Valve Installation
Figure 405/38-32-01-990-804-001**

EFFECTIVITY
LOM 402, 406, 407, 411, 412, 415, 420, 422-425,
432-434, 437-444, 446, 447, 450-460, 464

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TASK 38-32-01-400-807-001

13. Manual Shutoff Valve Installation

(Figure 405)

A. References

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)

B. Consumable Materials

Reference	Description	Specification
D00189	Compound - Molykote 111 (Formerly Dow Corning 111, Valve Sealant and Lubricant)	
D00463	Grease - Food Processing Equipment	DOD-G-24650

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
9	Packing	38-32-01-51-385	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-55-475	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
66	Valve assembly	38-32-01-51-515	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-51C-395	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-51D-395	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-55-620	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-55C-515	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-55D-515	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464

EFFECTIVITY
LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET

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(Continued)

AMM Item	Description	AIPC Reference	AIPC Effectivity
74	Valve assembly	38-32-01-51-415	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-51C-290	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-51D-290	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-55-540	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-55C-440	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-55D-440	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
77	Seal	38-32-01-51-410	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-51C-285	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-51D-285	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-55-590	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-55C-490	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464

EFFECTIVITY
LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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AIRCRAFT MAINTENANCE MANUAL

(Continued)

AMM Item	Description	AIPC Reference	AIPC Effectivity
77 (cont.)		38-32-01-55D-490	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464

D. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage

E. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

F. Manual Shutoff Valve Installation

SUBTASK 38-32-01-420-033-001

- (1) Apply the grease, D00463, or Molykote 111 Compound, D00189, on the two seals [77].

LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464

SUBTASK 38-32-01-430-001

- (2) Install the seals [77] so that they are flat against the manual shutoff valve assembly [74].

LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464; AIRPLANES WITH MONOGRAM TOILET

SUBTASK 38-32-01-420-036-001

- (3) Put the manual shutoff valve assembly [74] in its position.

LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464

SUBTASK 38-32-01-400-001

- (4) Install the washers [144], bolts [145], and nuts [143] that attach the manual shutoff valve assembly [74] and discharge drain [5] to the flush valve assembly [66].

- (a) Tighten the nuts [143] to 20 +5 / -0 in-lb (2.26 +0.57 / -0.00 N·m).

LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464; AIRPLANES WITH MONOGRAM TOILET

SUBTASK 38-32-01-410-003-001

- (5) If you removed the vacuum toilet assembly for better access, do this task: Vacuum Toilet Assembly Installation, TASK 38-32-01-400-805-001.

SUBTASK 38-32-01-410-004-001

- (6) If the toilet assembly was not removed, connect the discharge pipe as follows:

- (a) Put grease, D00463, or Molykote 111 Compound, D00189, on the new packings [9].
- (b) Put the new packings [9] on the vacuum waste line [8] and discharge drain [5].
- (c) Install the sleeve [7] and coupling [6] to connect the vacuum waste line [8] to the discharge drain [5].

NOTE: Turn the clamp (before you latch it) to put it in a position that will give the easiest access to the latch.

SUBTASK 38-32-01-420-038-001

- (7) Put the washer [78] on the shaft of the manual shutoff valve assembly [74].

EFFECTIVITY
LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464; AIRPLANES WITH MONOGRAM TOILET



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SUBTASK 38-32-01-420-039-001

- (8) Push the handle for the manual shutoff valve in and put the actuating arm [79] on the shaft on the manual shutoff valve assembly [74].

SUBTASK 38-32-01-420-040-001

- (9) Install the nut [81] and washer [80] that attach the shaft of the manual shutoff valve assembly [74] to the actuating arm [79].

G. Manual Shutoff Valve Installation Test

SUBTASK 38-32-01-040-006-001



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.

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

Power Distribution Panel Number 1, P91

Row	Col	Number	Name
C	11	C01388	VACUUM WASTE CONT

SUBTASK 38-32-01-410-062-001

- (2) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-32-01-860-009-001

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

SUBTASK 38-32-01-860-010-001

- (4) Set the water shutoff valve for the lavatory to the SUPPLY/DRAIN position.

SUBTASK 38-32-01-860-011-001

- (5) Pull the handle for the manual shutoff valve assembly [74] out to close the manual shutoff valve.

SUBTASK 38-32-01-710-003-001

- (6) Flush the toilet a minimum of two times to make sure it does not operate.

NOTE: The toilet will fill with water when you flush the toilet. This step makes sure that the manual shutoff valve is serviceable in the closed position.

SUBTASK 38-32-01-860-012-001

- (7) Push the handle for the manual shutoff valve assembly [74] in to open the manual shutoff valve assembly [74].

EFFECTIVITY
LOM 402, 406, 407, 411, 412, 415, 420, 422-425,
432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET



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SUBTASK 38-32-01-710-004-001

- (8) Flush the toilet a minimum of two times to make sure it operates correctly.

SUBTASK 38-32-01-730-001-001

- (9) Make sure that the manual shutoff valve assembly [74] and its connections do not leak.
(a) If there are leaks, check for damaged parts or loose connections.

H. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-01-410-005-001

- (1) To install the toilet shroud, do this task: Toilet Shroud Installation, TASK 38-32-01-400-801-001.

———— END OF TASK ————

TASK 38-32-01-000-808-001

14. Flush Valve Removal

(Figure 405)

A. General

- (1) This task removes the flush valve as an assembly with the flush valve motor attached.

NOTE: The flush valve motor may be replaced with the supplier CMM.

B. References

Reference	Title
38-32-00-910-801	Standard Practices for Work with the Toilet Waste and Equipment (P/B 201)

C. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage

D. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

E. Prepare for the Removal

SUBTASK 38-32-01-010-030-001

- (1) Get access to the lavatory for the toilet removal.

SUBTASK 38-32-01-010-198-001

- (2) Open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 38-32-01-040-007-001



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.

EFFECTIVITY
LOM 402, 406, 407, 411, 412, 415, 420, 422-425,
432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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(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) Open this circuit breaker and install safety tag:

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT

SUBTASK 38-32-01-860-013-001

- (4) Set the water shutoff valve for the lavatory to the FAUCET ONLY or SHUTOFF position (Figure 403).

SUBTASK 38-32-01-910-004-001

- (5) Do this task: Standard Practices for Work with the Toilet Waste and Equipment, TASK 38-32-00-910-801.

SUBTASK 38-32-01-010-031-001

- (6) To remove the toilet shroud, do this task: Toilet Shroud Removal, TASK 38-32-01-000-801-001.

SUBTASK 38-32-01-010-032-001

- (7) If it is necessary for better access, do this task: Vacuum Toilet Assembly Removal, TASK 38-32-01-000-805-001.

F. Flush Valve Removal

SUBTASK 38-32-01-020-038-001

- (1) Do this task: Manual Shutoff Valve Removal, TASK 38-32-01-000-807-001.

SUBTASK 38-32-01-020-039-001

- (2) Disconnect the vent tube from the flush valve assembly [66].

SUBTASK 38-32-01-020-040-001

- (3) Disconnect the electrical connectors [82] for the flush valve motor.

SUBTASK 38-32-01-020-041-001

- (4) Remove the nut [65] and washer [64] that attach the bracket to the flush valve assembly [66].

LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464

SUBTASK 38-32-01-030-002

- (5) Remove the nuts [141] and washers [142] that attach the toilet elbow [63] to the flush valve assembly [66]

- (a) Remove and discard the packing [70].

**LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET**

SUBTASK 38-32-01-020-046-001

- (6) Remove the flush valve assembly [66].

— END OF TASK —

EFFECTIVITY
**LOM 402, 406, 407, 411, 412, 415, 420, 422-425,
432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET**



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TASK 38-32-01-400-808-001

15. Flush Valve Installation

(Figure 405)

A. General

- (1) This task installs the flush valve as an assembly with the flush valve motor attached.

NOTE: The flush valve motor may be replaced with the supplier CMM.

B. References

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)

C. Consumable Materials

Reference	Description	Specification
D00189	Compound - Molykote 111 (Formerly Dow Corning 111, Valve Sealant and Lubricant)	
D00463	Grease - Food Processing Equipment	DOD-G-24650

D. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
66	Valve assembly	38-32-01-51-515	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-51C-395	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-51D-395	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-55-620	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-55C-515	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-55D-515	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
70	Packing	38-32-01-51-510	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464

EFFECTIVITY
LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET



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(Continued)

AMM Item	Description	AIPC Reference	AIPC Effectivity
70 (cont.)		38-32-01-51C-390	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-51D-390	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-55-640	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-55C-535	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-55D-535	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464

E. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage

F. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

G. Flush Valve Installation

SUBTASK 38-32-01-420-041-001

- (1) Apply grease, D00463, or Molykote 111 Compound, D00189, to the packings [70].

SUBTASK 38-32-01-420-042-001

- (2) Install the packing [70] between the flush valve assembly [66] and toilet elbow [63].

SUBTASK 38-32-01-420-043-001

- (3) Put the flush valve assembly [66] in its position adjacent the toilet elbow [63].

SUBTASK 38-32-01-420-044-001

- (4) Loosely install the washer [64] and nut [65] on the stud that attaches the support bracket to the bottom of the flush valve assembly [66].

- (a) Do not tighten the nut.

LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464

SUBTASK 38-32-01-430-003

- (5) Loosely install the washers [142] and nuts [141] that attach the flush valve assembly [66] to the elbow [63].

EFFECTIVITY
LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET



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LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464 (Continued)

- (a) Do not tighten the nuts.

**LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET**

SUBTASK 38-32-01-420-048-001

- (6) Connect the vent tube to the flush valve assembly [66].

SUBTASK 38-32-01-420-049-001

- (7) Connect the electrical connectors [82] for the flush valve motor.

LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464

SUBTASK 38-32-01-410-048

- (8) Tighten the nuts [141] and nut [65] that attach the flush valve assembly [66] with the flange on the toilet elbow [63] and support bracket.

- (a) Tighten the nuts [141] to 20 in-lb (2.26 N·m) - 25 in-lb (2.82 N·m).

**LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET**

SUBTASK 38-32-01-420-051-001

- (9) Do this task: Manual Shutoff Valve Installation, TASK 38-32-01-400-807-001.

SUBTASK 38-32-01-410-006-001

- (10) If it was necessary to remove the vacuum toilet assembly for better access, do this task:
Vacuum Toilet Assembly Installation, TASK 38-32-01-400-805-001.

H. Flush Valve Installation Test

SUBTASK 38-32-01-040-008-001



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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT

SUBTASK 38-32-01-410-063-001

- (2) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

EFFECTIVITY
**LOM 402, 406, 407, 411, 412, 415, 420, 422-425,
432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET**



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SUBTASK 38-32-01-860-014-001

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

SUBTASK 38-32-01-860-015-001

- (4) Set the water shutoff valve for the lavatory to the SUPPLY/DRAIN position.

SUBTASK 38-32-01-710-005-001

- (5) Flush the toilet a minimum of two times to make sure that it operates correctly.

SUBTASK 38-32-01-700-007-001

- (6) Make sure that the flush valve assembly [66] and its connections do not leak.

- (a) If there are leaks, check for damaged parts or loose connections.

I. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-01-410-007-001

- (1) To install the toilet shroud, do this task: Toilet Shroud Installation, TASK 38-32-01-400-801-001.

————— END OF TASK —————

TASK 38-32-01-000-811-001

16. Antisiphon Valve Removal

(Figure 406)

A. References

Reference	Title
38-32-00-910-801	Standard Practices for Work with the Toilet Waste and Equipment (P/B 201)

B. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage

C. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

D. Prepare for the Removal

SUBTASK 38-32-01-010-045-001

- (1) Get access to the lavatory for the toilet removal.

SUBTASK 38-32-01-010-199-001

- (2) Open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 38-32-01-040-013-001



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.

EFFECTIVITY
LOM 402, 406, 407, 411, 412, 415, 420, 422-425,
432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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(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) Open this circuit breaker and install safety tag:

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT

SUBTASK 38-32-01-860-022-001

- (4) Set the water shutoff valve for the lavatory to the FAUCET ONLY or SHUTOFF position (Figure 403).

SUBTASK 38-32-01-910-007-001

- (5) Do this task: Standard Practices for Work with the Toilet Waste and Equipment, TASK 38-32-00-910-801.

SUBTASK 38-32-01-010-046-001

- (6) To remove the toilet shroud, do this task: Toilet Shroud Removal, TASK 38-32-01-000-801-001.

SUBTASK 38-32-01-010-047-001

- (7) If it is necessary for better access, do this task: Vacuum Toilet Assembly Removal, TASK 38-32-01-000-805-001.

E. Antisiphon Valve Removal

SUBTASK 38-32-01-020-059-001

- (1) Remove the nuts [125] and washers [124] that attach the antisiphon valve [126] to the toilet bowl.

SUBTASK 38-32-01-020-060-001

- (2) Pull up to disconnect the joint between the antisiphon valve [126] and the rinse valve [128].

SUBTASK 38-32-01-020-061-001

- (3) Remove the antisiphon valve [126] and gasket [123] from the toilet bowl.

- (a) Discard the gasket [123].

SUBTASK 38-32-01-020-062-001

- (4) Remove and then discard the packing from these parts:

- (a) The packing [122] from the rinse ring on the toilet bowl.
(b) The packing [127] from the antisiphon valve.

— END OF TASK —

— EFFECTIVITY —
LOM 402, 406, 407, 411, 412, 415, 420, 422-425,
432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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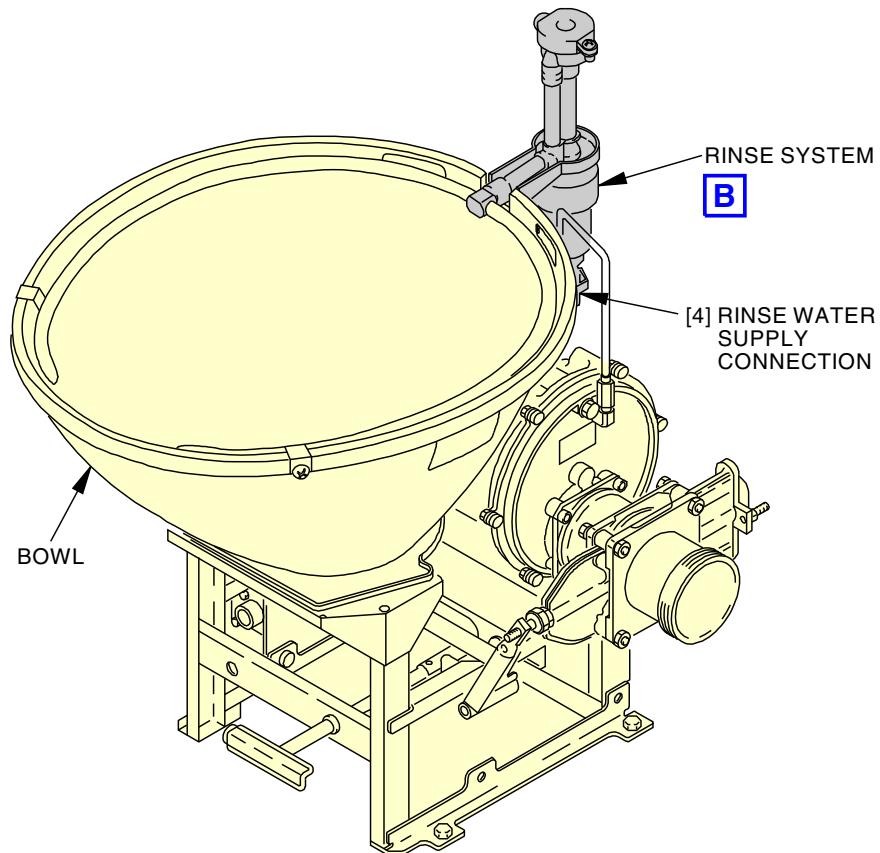
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TOILET ASSEMBLY

A

G21561 S0006578608_V2

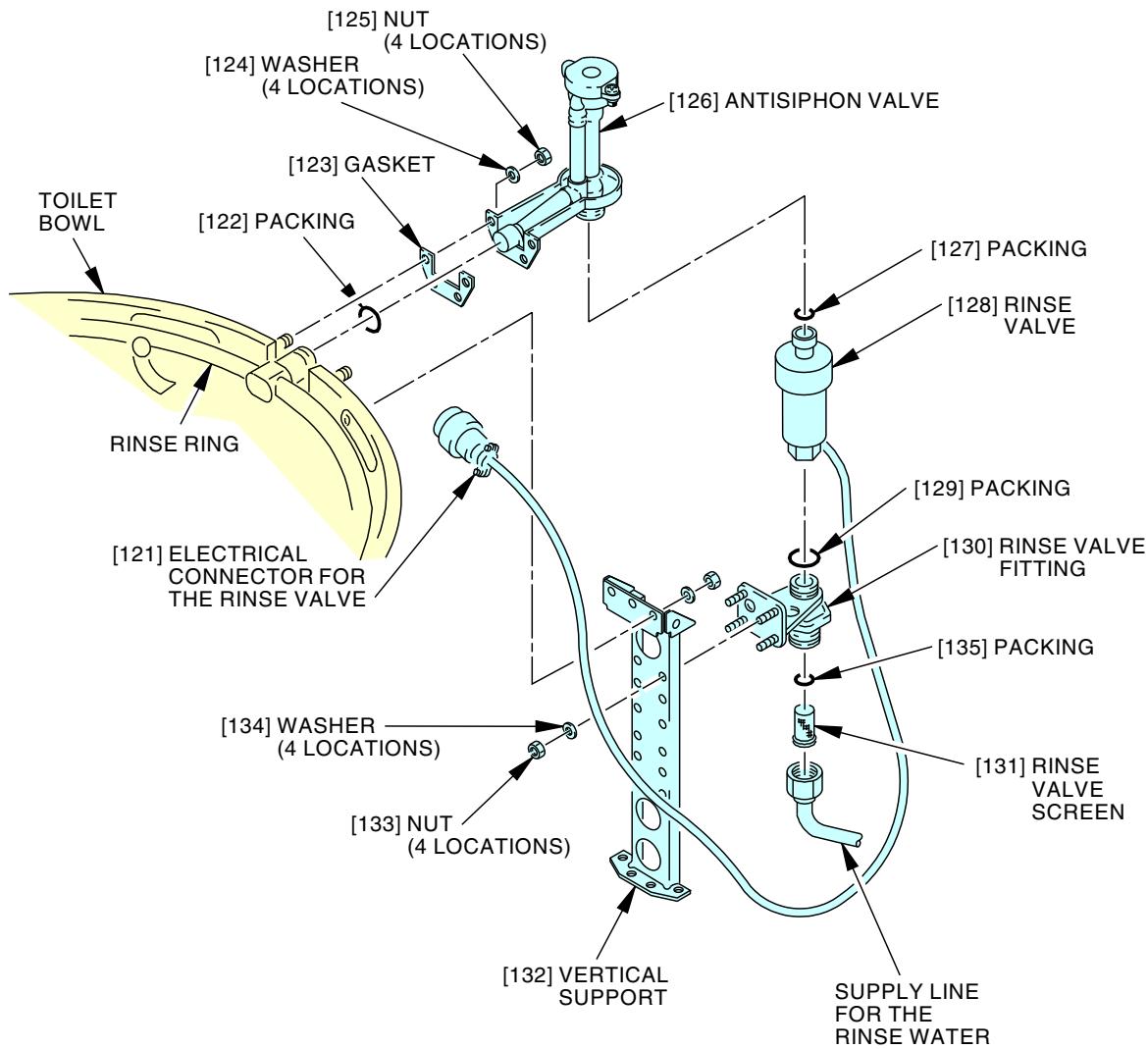
Rinse Valve and Antisiphon Valve Installation
Figure 406/38-32-01-990-805-001 (Sheet 1 of 2)

EFFECTIVITY
LOM 402, 406, 407, 411, 412, 415, 420, 422-425,
432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET

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RINSE SYSTEM
B

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Rinse Valve and Antisiphon Valve Installation
Figure 406/38-32-01-990-805-001 (Sheet 2 of 2)

EFFECTIVITY
 LOM 402, 406, 407, 411, 412, 415, 420, 422-425,
 432-434, 437-444, 446, 447, 450-460, 464;
 AIRPLANES WITH MONOGRAM TOILET

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TASK 38-32-01-400-811-001

17. Antisiphon Valve Installation

(Figure 406)

A. References

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)

B. Consumable Materials

Reference	Description	Specification
D00189	Compound - Molykote 111 (Formerly Dow Corning 111, Valve Sealant and Lubricant)	
D00463	Grease - Food Processing Equipment	DOD-G-24650

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
122	Packing	38-32-01-51-205	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-51C-075	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-51D-075	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-55-140	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-55C-045	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-55D-045	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
123	Gasket	38-32-01-51-275	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-51C-145	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464

EFFECTIVITY
LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET

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(Continued)

AMM Item	Description	AIPC Reference	AIPC Effectivity
123 (cont.)		38-32-01-51D-145	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-55-195	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-55C-100	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-55D-100	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
126	Valve	38-32-01-51-215	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-51C-085	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-51D-085	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-55-145	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-55C-050	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-55D-050	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
127	Packing	38-32-01-51-210	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464

EFFECTIVITY
LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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(Continued)

AMM Item	Description	AIPC Reference	AIPC Effectivity
127 (cont.)		38-32-01-51C-080	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-51D-080	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-55-200	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-55C-105	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-55D-105	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464

D. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage

E. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

F. Antisiphon Valve Installation

SUBTASK 38-32-01-640-002-001

- (1) Apply grease, D00463, or Molykote 111 Compound, D00189, on the new packing [122].

SUBTASK 38-32-01-420-059-001

- (2) Install the packing [122] on the rinse ring.

SUBTASK 38-32-01-640-003-001

- (3) Apply grease, D00463, or Molykote 111 Compound, D00189, on the new packing [127].

SUBTASK 38-32-01-420-060-001

- (4) Install the packing [127] on the antisiphon valve [126].

SUBTASK 38-32-01-420-061-001

- (5) Put a new gasket [123] and antisiphon valve [126] in their position on the toilet bowl.

SUBTASK 38-32-01-420-062-001

- (6) Install the washers [124] and nuts [125] that attach the antisiphon valve [126] to the toilet bowl.

SUBTASK 38-32-01-410-012-001

- (7) If you removed the vacuum toilet assembly for better access, do this task: Vacuum Toilet Assembly Installation, TASK 38-32-01-400-805-001.

EFFECTIVITY
**LOM 402, 406, 407, 411, 412, 415, 420, 422-425,
432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET**



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G. Antisiphon Valve Installation Test

SUBTASK 38-32-01-040-014-001



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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT

SUBTASK 38-32-01-410-064-001

- (2) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-32-01-860-023-001

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

SUBTASK 38-32-01-860-024-001

- (4) Set the water shutoff valve for the lavatory to the SUPPLY/DRAIN position.

SUBTASK 38-32-01-710-008-001

- (5) Flush the toilet a minimum of two times to make sure that it operates correctly.

H. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-01-410-013-001

- (1) To install the toilet shroud, do this task: Toilet Shroud Installation, TASK 38-32-01-400-801-001.

———— END OF TASK ————

TASK 38-32-01-000-812-001

18. Rinse Valve Removal

(Figure 406)

A. References

<u>Reference</u>	<u>Title</u>
38-32-00-910-801	Standard Practices for Work with the Toilet Waste and Equipment (P/B 201)

EFFECTIVITY
LOM 402, 406, 407, 411, 412, 415, 420, 422-425,
432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET

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B. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage

C. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

D. Prepare for the Removal

SUBTASK 38-32-01-010-048-001

- (1) Get access to the lavatory for the toilet removal.

SUBTASK 38-32-01-010-200-001

- (2) Open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 38-32-01-040-015-001



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.

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

Power Distribution Panel Number 1, P91

Row	Col	Number	Name
C	11	C01388	VACUUM WASTE CONT

SUBTASK 38-32-01-860-025-001

- (4) Set the water shutoff valve for the lavatory to the FAUCET ONLY or SHUTOFF position (Figure 403).

SUBTASK 38-32-01-910-008-001

- (5) Do this task: Standard Practices for Work with the Toilet Waste and Equipment, TASK 38-32-00-910-801.

SUBTASK 38-32-01-010-049-001

- (6) To remove the toilet shroud, do this task: Toilet Shroud Removal, TASK 38-32-01-000-801-001.

SUBTASK 38-32-01-010-050-001

- (7) If it is necessary for better access, do this task: Vacuum Toilet Assembly Removal, TASK 38-32-01-000-805-001.

EFFECTIVITY
LOM 402, 406, 407, 411, 412, 415, 420, 422-425,
432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET



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E. Rinse Valve Removal

SUBTASK 38-32-01-020-063-001

- (1) Remove the wire ties that attach the wires for the rinse valve to the toilet.

SUBTASK 38-32-01-020-064-001

- (2) Disconnect the electrical connector [121] for the rinse valve from the flush control assembly.

SUBTASK 38-32-01-020-065-001

- (3) Disconnect the supply line for the rinse water from the rinse valve fitting [130].

SUBTASK 38-32-01-020-068-002-001

- (4) Drain the water from the supply line into a container.

SUBTASK 38-32-01-020-066-001

- (5) Remove the rinse valve screen [131] and packing [135] from the rinse valve fitting [130].

- (a) Discard the packing [135].

SUBTASK 38-32-01-020-067-001

- (6) Do this task: Antisiphon Valve Removal, TASK 38-32-01-000-811-001.

SUBTASK 38-32-01-020-068-001

- (7) Remove the nuts [133] and washers [134] that attach the rinse valve fitting [130] to the vertical support [132].

SUBTASK 38-32-01-020-069-001

- (8) Remove the rinse valve fitting [130].

SUBTASK 38-32-01-020-070-001

- (9) Remove the rinse valve [128] from the rinse valve fitting [130].

SUBTASK 38-32-01-020-071-001

- (10) Remove and then discard the packing from these parts:

- (a) The packing [127] from the rinse valve.

- (b) The packing [129] from the rinse valve fitting.

————— END OF TASK ————

TASK 38-32-01-400-812-001

19. Rinse Valve Installation

(Figure 406)

A. References

Reference	Title
20-10-44-400-801	Lockwire, Cotter Pins, and Lockrings - Installation (P/B 401)
24-22-00-860-811	Supply Electrical Power (P/B 201)

B. Consumable Materials

Reference	Description	Specification
D00189	Compound - Molykote 111 (Formerly Dow Corning 111, Valve Sealant and Lubricant)	
D00463	Grease - Food Processing Equipment	DOD-G-24650

— EFFECTIVITY —
LOM 402, 406, 407, 411, 412, 415, 420, 422-425,
432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
127	Packing	38-32-01-51-210	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-51C-080	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-51D-080	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-55-200	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-55C-105	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-55D-105	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
128	Valve	38-32-01-51-305	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-51C-175	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-51D-175	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-55-285	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-55C-185	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464

EFFECTIVITY
**LOM 402, 406, 407, 411, 412, 415, 420, 422-425,
432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET**

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(Continued)

AMM Item	Description	AIPC Reference	AIPC Effectivity
128 (cont.)		38-32-01-55D-185	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
129	Packing	38-32-01-51-310	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-51C-180	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-51D-180	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-55-390	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-55C-290	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-55D-290	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
135	Packing	38-32-01-51-330	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-51C-200	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-51D-200	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-55-395	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464

EFFECTIVITY
LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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(Continued)

AMM Item	Description	AIPC Reference	AIPC Effectivity
135 (cont.)		38-32-01-55C-300	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-55D-300	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464

D. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage

E. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

F. Rinse Valve Installation

SUBTASK 38-32-01-640-004-001

- (1) Apply the grease, D00463, or Molykote 111 Compound, D00189, on new packing [127] and packing [129].

SUBTASK 38-32-01-420-063-001

- (2) Install the new packing [127] and new packing [129] on the rinse valve [128] and rinse valve fitting [130].

SUBTASK 38-32-01-420-064-001

- (3) Install the rinse valve [128] on the rinse valve fitting [130].
 - (a) Tighten the connection hand tight.
 - (b) Do this task: Lockwire, Cotter Pins, and Lockrings - Installation, TASK 20-10-44-400-801.

SUBTASK 38-32-01-420-065-001

- (4) Install the nuts [133] and washer [134] to connect the rinse valve [128] (with the rinse valve fitting [130] attached) to the vertical support [132].

SUBTASK 38-32-01-420-066-001

- (5) Do this task: Antisiphon Valve Installation, TASK 38-32-01-400-811-001.

SUBTASK 38-32-01-420-067-001

- (6) Install the rinse valve screen [131] and new packing [135] in the rinse valve fitting [130].

SUBTASK 38-32-01-110-002-001

- (7) Do this task: Rinse Water Supply Cleaning, TASK 38-32-01-100-801-001.

SUBTASK 38-32-01-420-068-001

- (8) Connect the supply line for the rinse water to the rinse valve fitting [130].

SUBTASK 38-32-01-420-069-001

- (9) Connect the electrical connector [121] for the rinse valve [128] to the flush control assembly.

SUBTASK 38-32-01-420-070-001

- (10) Install the wire ties to attach the wires for the rinse valve [128] to the other wires on the toilet.

EFFECTIVITY
LOM 402, 406, 407, 411, 412, 415, 420, 422-425,
432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET



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SUBTASK 38-32-01-410-014-001

- (11) If you removed the vacuum toilet assembly for better access, do this task: Vacuum Toilet Assembly Installation, TASK 38-32-01-400-805-001.

G. Rinse Valve Installation Test

SUBTASK 38-32-01-040-016-001



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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT

SUBTASK 38-32-01-410-065-001

- (2) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-32-01-860-026-001

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

SUBTASK 38-32-01-860-027-001

- (4) Set the water shutoff valve for the lavatory to the SUPPLY/DRAIN position.

SUBTASK 38-32-01-710-009-001

- (5) Flush the toilet a minimum of two times to make sure it operates correctly.

SUBTASK 38-32-01-700-008-001

- (6) Make sure that the rinse valve [128] and its connections do not leak.

- (a) If there are leaks, check for damaged parts or loose connections.

H. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-01-410-015-001

- (1) To install the toilet shroud, do this task: Toilet Shroud Installation, TASK 38-32-01-400-801-001.

———— END OF TASK ————

EFFECTIVITY
LOM 402, 406, 407, 411, 412, 415, 420, 422-425,
432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET

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TASK 38-32-01-100-801-001

20. Rinse Water Supply Cleaning

(Figure 406)

A. General

- (1) Do this task to make sure the potable water system is not contaminated when the vacuum toilet assembly is connected.

B. References

Reference	Title
20-10-44-400-801	Lockwire, Cotter Pins, and Lockrings - Installation (P/B 401)

C. Consumable Materials

Reference	Description	Specification
B00637	Acid, Citric	A-A-59147
G00022	Compound - Chlorine Dioxide For Water Purification - Purogene or Oxine	

D. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
135	Packing	38-32-01-51-330	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-51C-200	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-51D-200	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-55-395	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-55C-300	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464
		38-32-01-55D-300	LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464

E. Location Zones

Zone	Area
200	Upper Half of Fuselage

EFFECTIVITY
LOM 402, 406, 407, 411, 412, 415, 420, 422-425, 432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET

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F. Rinse Water Supply Cleaning

SUBTASK 38-32-01-670-001-001

- (1) Make a disinfectant as follows:

- (a) Mix 0.3 fluid ounces (0.01 liter) of chlorine dioxide Purogene or Oxine compound, G00022 and 13.4 ounces (0.4 liter) of citric acid, B00637 per gallon (4 liters) of disinfectant.
- (b) Stop for five minutes.
- (c) Add one gallon (4 liters) of water to complete the disinfectant.

SUBTASK 38-32-01-670-002-001

- (2) Clean the connections on the supply line for the rinse water with the disinfectant.

SUBTASK 38-32-01-670-003-001

- (3) Put approximately one cup (8 fluid ounces) (0.2 liter) of the disinfectant in the supply line.

SUBTASK 38-32-01-420-071-001

- (4) Install the rinse valve screen [131] and packing [135] in the rinse valve fitting [130].

SUBTASK 38-32-01-420-072-001

- (5) Connect the supply line for the rinse water.

- (a) Do this task: Lockwire, Cotter Pins, and Lockrings - Installation, TASK 20-10-44-400-801.

SUBTASK 38-32-01-710-010-001

- (6) Flush the toilet a minimum of two times to make sure the disinfectant is out of the supply line.

————— END OF TASK ————

EFFECTIVITY
LOM 402, 406, 407, 411, 412, 415, 420, 422-425,
432-434, 437-444, 446, 447, 450-460, 464;
AIRPLANES WITH MONOGRAM TOILET

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TOILET ASSEMBLY - REMOVAL/INSTALLATION

1. General

- A. This procedure contains scheduled maintenance task data.
- B. This procedure has these tasks for parts of the toilet system:
 - (1) A removal of the toilet shroud assembly.
 - (2) An installation of the toilet shroud assembly.
 - (3) A removal of the vacuum toilet assembly.
 - (4) An installation of the vacuum toilet assembly.
 - (5) A removal of the flush control assembly.
 - (6) An installation of the flush control assembly.
 - (7) A removal of the manual shutoff valve.
 - (8) An installation of the manual shutoff valve.
 - (9) A removal of the flush valve.
 - (10) An installation of the flush valve.
 - (11) A removal of the flush valve motor.
 - (12) An installation of the flush valve motor.
 - (13) A removal of the rinse valve.
 - (14) An installation of the rinse valve.
 - (15) A cleaning of the rinse supply line.

- C. Monogram and Envirovac toilets are interchangeable with these limits:

- (1) The 15800-029-3 (Monogram) can replace, and be replaced by, 7900101 (Envirovac).
 - (2) The 15800-029-3 (Monogram) can replace, and be replaced by, 15800-019-1 (Monogram).
 - (a) When installed on Yokohama Lavatories, 15800-029-3 (Monogram) cannot be replaced by, 15800-019-1 (Monogram).
 - (3) The 7900101 (Envirovac) can replace, and be replaced by, 15800-019-1 (Monogram).
 - (a) When installed on Yokohama Lavatories, 7900101 (Envirovac) cannot be replaced by, 15800-019-1 (Monogram).

TASK 38-32-01-000-834-002

2. Toilet Shroud Removal

A. References

Reference	Title
38-32-00-910-801	Standard Practices for Work with the Toilet Waste and Equipment (P/B 201)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Prepare for the Removal

SUBTASK 38-32-01-010-142-002

- (1) Get access to the lavatory for the toilet or toilet component removal.

EFFECTIVITY
LOM 404, 416, 426-431, 445, 461-463; AIRPLANES
WITH ENVIROVAC TOILET



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SUBTASK 38-32-01-910-022-002

- (2) Do this task: Standard Practices for Work with the Toilet Waste and Equipment, TASK 38-32-00-910-801.

LOM 404, 416, 426-431, 445, 461-463

SUBTASK 38-32-01-010-143-002

- (3) To remove the toilet shroud, do this task: Lavatory A Shroud Removal, TASK 38-32-01-000-835-002.

SUBTASK 38-32-01-010-146-002

- (4) To remove the toilet shroud, do this task: Lavatory D, E, F, G, H, K, L, M, or R Shroud Removal, TASK 38-32-01-000-837-002.

LOM 404, 416, 426-431, 445, 461-463; AIRPLANES WITH ENVIROVAC TOILET

———— END OF TASK ————

TASK 38-32-01-400-834-002

3. Toilet Shroud Installation

A. Location Zones

Zone	Area
200	Upper Half of Fuselage

B. Toilet Shroud Installation

LOM 404, 416, 426-431, 445, 461-463

SUBTASK 38-32-01-010-154-002

- (1) To install the toilet shroud, do this task: Lavatory A Shroud Installation, TASK 38-32-01-400-835-002.

SUBTASK 38-32-01-010-157-002

- (2) To install the toilet shroud, do this task: Lavatory D, E, F, G, H, K, L, M, or R Shroud Installation, TASK 38-32-01-400-837-002.

———— END OF TASK ————

TASK 38-32-01-000-835-002

4. Lavatory A Shroud Removal

A. 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

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Lavatory A Shroud Removal

SUBTASK 38-32-01-020-240

- (1) Do these steps to remove the access door

EFFECTIVITY
LOM 404, 416, 426-431, 445, 461-463; AIRPLANES
WITH ENVIROVAC TOILET



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LOM 404, 416, 426-431, 445, 461-463 (Continued)

- (a) Pull the actuator-latch of the panel access door to release the lock.
- (b) Open the access door.
- (c) Pull down the upper pin-hinge and lock it.
- (d) Pull down the lower pin-hinge and lock it.
- (e) Remove the access door.
NOTE: Keep the spacer at the lower pin-hinge.
- (f) Remove the screw, washer, and pressure plate.
- (g) Remove the screw, nut, washer, the latch-access door and actuator-latch.

SUBTASK 38-32-01-020-241

- (2) Do these steps to remove the amenity door.
 - (a) Pull open the amenity door.
 - (b) Remove the screw, washer, and release the wire assembly.
 - (c) Release the pin-hinge and lock them.
 - (d) Remove the amenity door.

LOM 404, 416, 426-428

SUBTASK 38-32-01-020-234-002

- (3) Do these steps to remove the toilet shroud:

NOTE: The toilets 15800-029-3 (Monogram) and 7900101 (Envirovac) can be interchangeably installed in the Yokohama Lavatory A.

- (a) Push up the latch located at the bottom of the toilet shroud to release the lock.
 - (b) Slide down the toilet shroud.
 - (c) Remove the toilet shroud.

LOM 429-431, 445, 461-463

SUBTASK 38-32-01-020-255-002

- (4) Do these steps to remove the toilet shroud:

NOTE: The toilets 15800-029-3 (Monogram) and 7900101 (Envirovac) can be interchangeably installed in the Yokohama Lavatory A.

- (a) Disengage the tamper proof fasteners at the bottom of the shroud.
 - 1) Put the special screwdriver bit, SPL-13800 on the fastener.
 - 2) Turn slowly until it engages the fastener.
 - 3) Turn until the fastener disengages the shroud.
 - (b) Move the toilet shroud down.
 - (c) Remove the toilet shroud.

LOM 404, 416, 426-431, 445, 461-463

SUBTASK 38-32-01-020-239

- (5) Do these steps to remove the toilet shroud panels:

- (a) Remove the bolts and the washers.
 - (b) Break the sealant between the toilet shroud panels and the assist wall.

EFFECTIVITY
LOM 404, 416, 426-431, 445, 461-463; AIRPLANES
WITH ENVIROVAC TOILET

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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LOM 404, 416, 426-431, 445, 461-463 (Continued)

- (c) Disconnect the connector from the flush switch assembly.
- (d) Remove the toilet shroud panels.

SUBTASK 38-32-01-020-242

- (6) Remove the flush switch assembly by removing the screws.

———— END OF TASK ————

TASK 38-32-01-400-835-002

5. Lavatory A Shroud Installation

A. 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

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Lavatory A Shroud Installation

SUBTASK 38-32-01-420-195-002

- (1) Do these steps to install the toilet shroud:
 - (a) Engage the top edge of the toilet shroud with the trim strip of the lavatory wall.
 - (b) Push the toilet shroud into the lavatory wall.
 - (c) Push the toilet shroud down.
 - (d) Make sure the top edge of the toilet shroud is fully engaged on the brackets of the lavatory walls.

SUBTASK 38-32-01-420-196-002

- (2) Install the left collar assembly.
 - (a) Move the collar assembly to engage the knob in the keyhole slot.
 - (b) Push the collar assembly into the lavatory wall until the center engages adjacent to the slot receptacles.

SUBTASK 38-32-01-420-197-002

- (3) Install the collar assembly with the flush button.

SUBTASK 38-32-01-420-198-002

- (4) Install the flush button escutcheon.

SUBTASK 38-32-01-420-199-002

- (5) Install the sink cabinet door for the lavatory water system.

SUBTASK 38-32-01-420-248

- (6) Install the flush switch assembly to the toilet shroud panel.

SUBTASK 38-32-01-420-249

- (7) Do these steps to install the toilet shroud panels:

EFFECTIVITY
**LOM 404, 416, 426-431, 445, 461-463; AIRPLANES
WITH ENVIROVAC TOILET**

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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LOM 404, 416, 426-431, 445, 461-463 (Continued)

- (a) Connect the flush switch assembly connector.
- (b) Secure the toilet shroud panels to the assist wall with the bolts and washers.
- (c) Apply sealant, TSE 382-C, between the toilet shroud panels and assist wall.

SUBTASK 38-32-01-420-250

- (8) Do these steps to install the toilet shroud:
 - (a) Put the top of the toilet shroud in its position on the toilet surround panel.
 - (b) Push the toilet shroud up, to its installed position.
 - (c) Push the bottom of the shroud into the toilet surround panel until it latches.

LOM 429-431, 445, 461-463

- (d) Make sure that the tamper proof fasteners at the bottom of the shroud are engaged.
 - 1) Put the special screwdriver bit, SPL-13800 on the fastener.
 - 2) Turn slowly until it engages the fastener.
 - 3) Turn until the fastener engages the shroud.

LOM 404, 416, 426-431, 445, 461-463

SUBTASK 38-32-01-420-251

- (9) Do these steps to install the amenity door:
 - (a) Secure amenity dispenser box with the pin-hinge.
 - (b) Attach the wire assembly to the amenity door with the screw and washer.
 - (c) Close the amenity door.

SUBTASK 38-32-01-420-252

- (10) Do these steps to install the access door:
 - (a) Attach the latch-access door and actuator-latch to the tie rod-latch with the nut and washer.
 - (b) Attach the tie rod-latch to the access door with the screw.
 - (c) Install the pressure plate to the access door with the screws and washers.
 - (d) Attach the access door at the upper and lower pin-hinges.
 - (e) Push the access door until it latches.

————— END OF TASK ————

TASK 38-32-01-000-837-002

6. Lavatory D, E, F, G, H, K, L, M, or R Shroud Removal

A. Location Zones

Zone	Area
200	Upper Half of Fuselage

B. Lavatory D, E, F, G, H, or K Shroud Removal

SUBTASK 38-32-01-010-167-002

- (1) Open and then remove the sink cabinet door to get access to the lavatory water system.

SUBTASK 38-32-01-020-197-002

- (2) Use an allen wrench to loosen the screws and then remove the flush button escutcheon.

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LOM 404, 416, 426-431, 445, 461-463 (Continued)

SUBTASK 38-32-01-020-198-002

- (3) Remove the collar assembly with the flush button hole.

SUBTASK 38-32-01-020-199-002

- (4) Move the collar assembly to disengage the knob from the keyhole slot.

SUBTASK 38-32-01-020-200-002

- (5) Do these steps to remove the toilet shroud:

- (a) Disengage the top edge of the toilet shroud from the trim strip of the lavatory wall.
(b) Move the toilet shroud up and then away from the toilet assembly.

———— END OF TASK ————

TASK 38-32-01-400-837-002

7. Lavatory D, E, F, G, H, K, L, M, or R Shroud Installation

A. Location Zones

Zone	Area
200	Upper Half of Fuselage

B. Lavatory D, E, F, G, H, K, L or M Shroud Installation

SUBTASK 38-32-01-420-207-002

- (1) Do these steps to install the toilet shroud:

- (a) Engage the top edge of the toilet shroud with the trim strip of the lavatory wall.
(b) Push the toilet shroud into the lavatory wall.
(c) Push the toilet shroud down.
(d) Make sure the top edge of the toilet shroud is fully engaged on the brackets of the lavatory walls.

SUBTASK 38-32-01-420-208-002

- (2) Install the left collar assembly.

- (a) Move the collar assembly to engage the knob in the keyhole slot.
(b) Push the collar assembly into the lavatory wall until the center engages adjacent to the slot receptacles.

SUBTASK 38-32-01-420-209-002

- (3) Install the collar assembly with the flush button hole.

SUBTASK 38-32-01-420-210-002

- (4) Install the flush button escutcheon.

SUBTASK 38-32-01-420-211-002

- (5) Install the sink cabinet door for the lavatory water system.

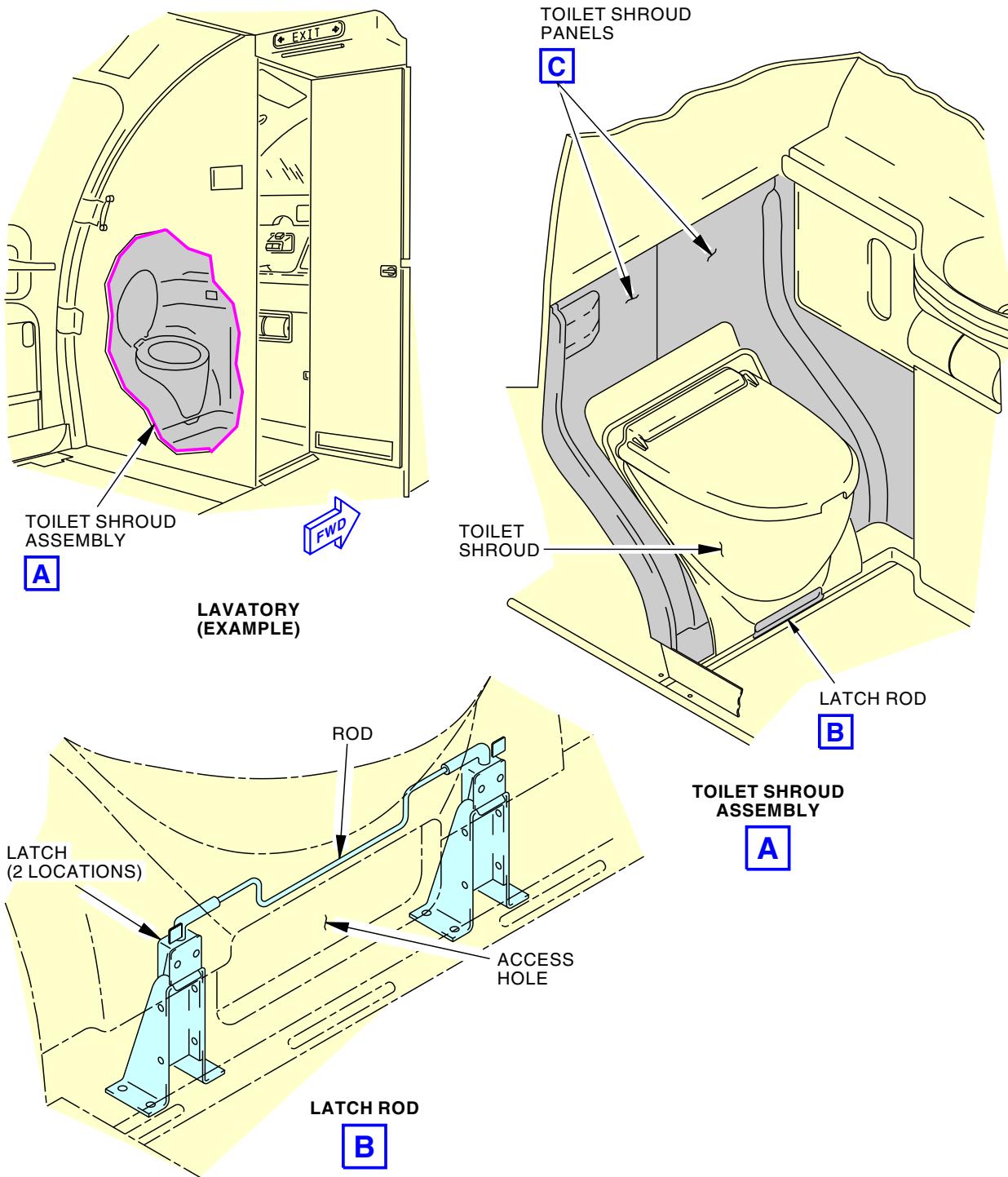
———— END OF TASK ————

— EFFECTIVITY —
**LOM 404, 416, 426-431, 445, 461-463; AIRPLANES
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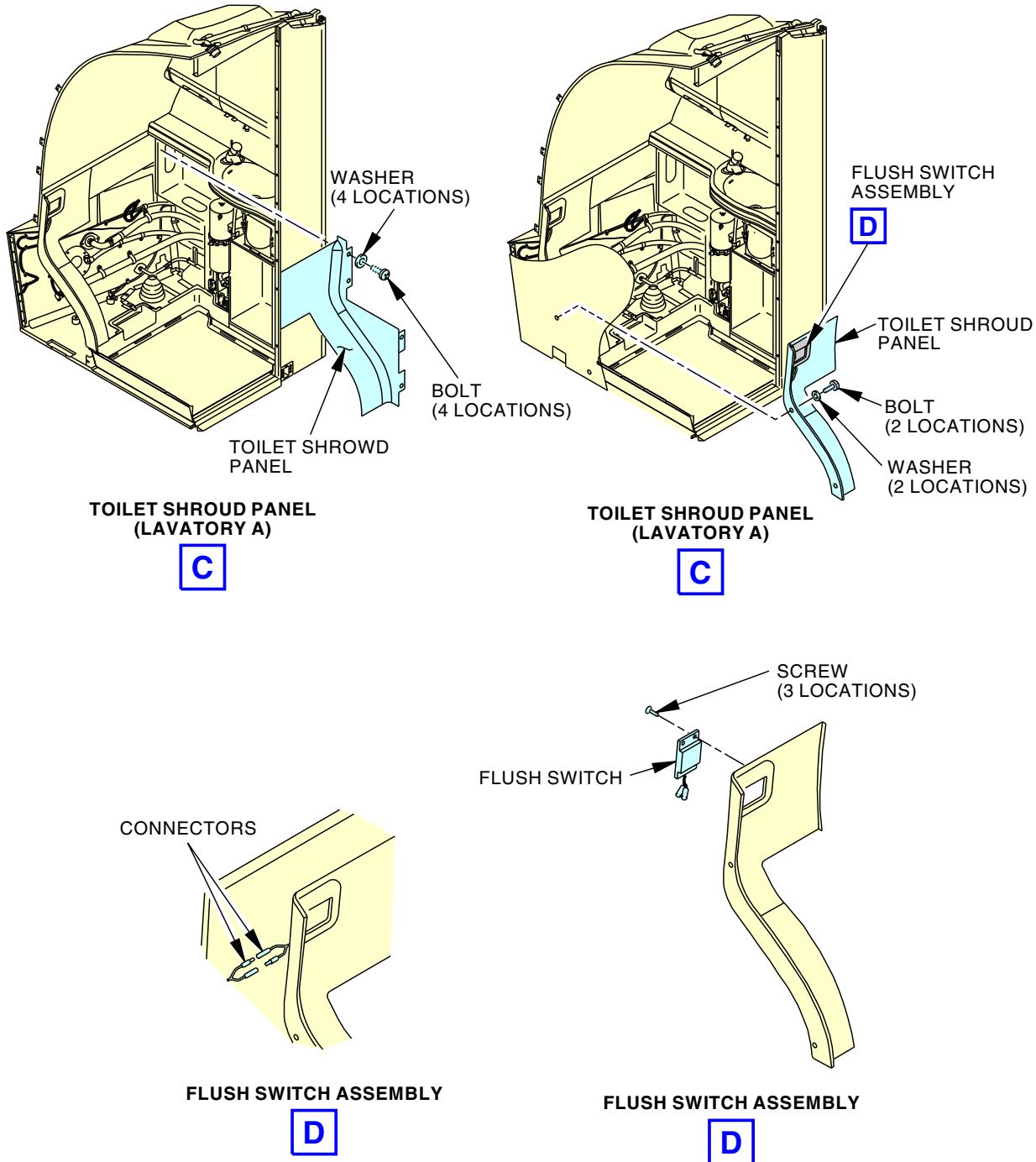
Toilet Shroud Installation
Figure 401/38-32-01-990-824 (Sheet 1 of 3)

EFFECTIVITY
LOM 404, 416, 426-431, 445, 461-463

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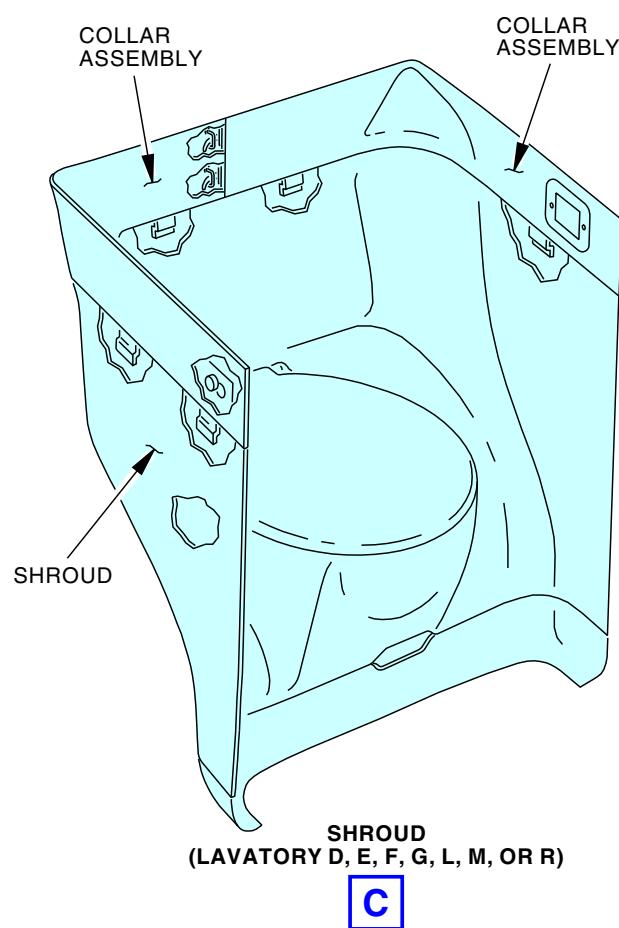
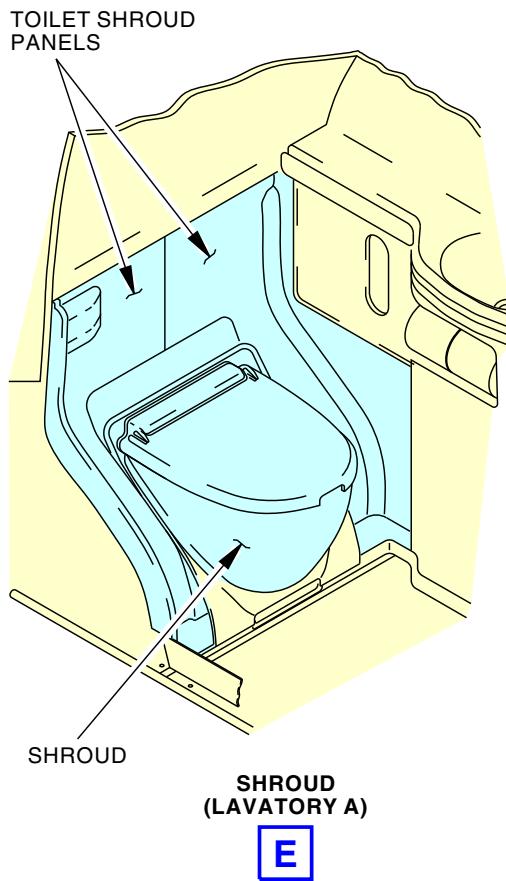
Toilet Shroud Installation
Figure 401/38-32-01-990-824 (Sheet 2 of 3)

EFFECTIVITY
LOM 404, 416, 426-431, 445, 461-463

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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Toilet Shroud Installation
Figure 401/38-32-01-990-824 (Sheet 3 of 3)

EFFECTIVITY
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LOM 404, 416, 426-431, 445, 461-463; AIRPLANES WITH ENVIROVAC TOILET

TASK 38-32-01-000-838-002

8. Vacuum Toilet Assembly Removal

(Figure 402)

A. References

Reference	Title
38-32-00-910-801	Standard Practices for Work with the Toilet Waste and Equipment (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-1946	Plug - Vacuum Waste System Part #: A38007-9 Supplier: 81205

C. Consumable Materials

Reference	Description	Specification
D00189	Compound - Molykote 111 (Formerly Dow Corning 111, Valve Sealant and Lubricant)	
D00463	Grease - Food Processing Equipment	DOD-G-24650

D. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage

E. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

F. Prepare for the Removal

SUBTASK 38-32-01-010-168-002

- (1) Get access to the lavatory for the toilet removal.

SUBTASK 38-32-01-010-201-002

- (2) Open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 38-32-01-040-043-002



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.

EFFECTIVITY
LOM 404, 416, 426-431, 445, 461-463; AIRPLANES
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(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) Open this circuit breaker and install safety tag:

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT

SUBTASK 38-32-01-860-071-002

- (4) Set the water shutoff valve for the lavatory to the FAUCET ONLY or OFF position (Figure 402).

SUBTASK 38-32-01-910-023-002

- (5) Do this task: Standard Practices for Work with the Toilet Waste and Equipment, TASK 38-32-00-910-801.

SUBTASK 38-32-01-010-169-002

- (6) To remove the toilet shroud, do this task: Toilet Shroud Removal, TASK 38-32-01-000-834-002.

G. Vacuum Toilet Assembly Removal

SUBTASK 38-32-01-020-201-002

- (1) Remove the electrical connector [3] to disconnect the flush control assembly of the vacuum toilet assembly.

SUBTASK 38-32-01-020-202-002

- (2) Disconnect the connection for the rinse water supply connection [4].

SUBTASK 38-32-01-680-006-002

- (3) Drain the water supply line into a container.

SUBTASK 38-32-01-020-203-002

- (4) Remove the nut [15] and washer [16] to disconnect the bonding jumper [14] from the toilet and then connect the nut [15] and washer [16].

SUBTASK 38-32-01-020-205-002

- (5) Remove the coupling [6] that attaches the discharge drain [5] to the vacuum waste line [8].

SUBTASK 38-32-01-020-206-002

- (6) Remove the sleeve [7] and packings [9] and disconnect the discharge drain [5].

SUBTASK 38-32-01-020-208-002

- (7) Remove the bolts [10] and washers [17] that attach the vacuum toilet assembly [11] to the lavatory floor.

SUBTASK 38-32-01-020-209-002

- (8) Remove the vacuum toilet assembly [11].

SUBTASK 38-32-01-020-210-002

- (9) If the vacuum waste system will be operated while the toilet is removed, then do these steps (to install a plug in the vacuum waste line):

- (a) Apply the grease, D00463, or Molykote 111 Compound, D00189, to the packing [9] on the waste line vacuum waste plug, SPL-1946.

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- (b) Apply the grease, D00463, or Molykote 111 Compound, D00189, to the packing [9] on the vacuum waste line [8].
- (c) Put the waste line vacuum waste plug, SPL-1946, in the vacuum waste line [8].
- (d) Attach the waste line plug to the vacuum waste line [8] with the coupling [6].

———— END OF TASK ————

TASK 38-32-01-400-838-002

9. Vacuum Toilet Assembly Installation

(Figure 402)

A. References

Reference	Title
12-14-01-600-802	Potable Water Tank - Fill (P/B 301)
24-22-00-860-811	Supply Electrical Power (P/B 201)
SWPM 20-20-00	ELECTRICAL BONDING PROCESSES
SWPM 20-20-10	Replacement of Ground Studs and Bonding Jumper Installation

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-614	Bonding Meters - Non-Intrinsically Safe (For use in outside Class I, Divisions I & II non-hazardous locations. For hazardous locations, use COM-1550). Part #: 247000 Supplier: 00426 Part #: 620LK Supplier: 1CRL2 Part #: BLR-0003-XX Supplier: KC432 Part #: BT51 Supplier: 00426 Part #: M1 Supplier: 3AD17 Part #: M1B Supplier: 3AD17 Part #: T477W (C15292) Supplier: 06659 Opt Part #: 247001 Supplier: 00426
SPL-1946	Plug - Vacuum Waste System Part #: A38007-9 Supplier: 81205

C. Consumable Materials

Reference	Description	Specification
A50231	Sealant - Pressure And Environmental - Chromate Type	BMS5-95 Class B
A50337	Sealant - Fuel Tank	BMS5-45 Class B
A50359	Sealant - Low Density, Non-Chromate Type	BMS5-142 Type II Class B
B00184	Solvent - Presealing, Cleaning Solvent	BMS11-7
D00189	Compound - Molykote 111 (Formerly Dow Corning 111, Valve Sealant and Lubricant)	
D00463	Grease - Food Processing Equipment	DOD-G-24650

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

D. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
9	Packing	25-40-00-23-015	LOM 404, 416, 426-431, 445, 461-463
		25-40-00-23-215	LOM 404, 416, 426-431, 445, 461-463
		25-40-00-23-415	LOM 404, 416, 426-431, 445, 461-463
		25-40-00-23-615	LOM 445
11	Toilet assembly	38-32-01-07-030	LOM 404, 416, 426-431, 445, 461-463
		38-32-01-07A-030	LOM 404, 416, 426-431, 445, 461-463
		38-32-01-20-035	LOM 404, 416, 426-431, 445, 461-463

E. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage

F. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

G. Install the Toilet Assembly

SUBTASK 38-32-01-420-212-002

- (1) If a plug is installed in the vacuum waste line, then do these steps to remove the waste line plug:
 - (a) Remove the coupling [6] that attaches the waste line vacuum waste plug, SPL-1946, to the vacuum waste line.
 - (b) Pull the plug from the vacuum waste line.

SUBTASK 38-32-01-640-010-002

- (2) Put grease, D00463, or Molykote 111 Compound, D00189, on the new packings [9].

SUBTASK 38-32-01-420-213-002

- (3) Put the new packings [9] on the vacuum waste line [8] and discharge drain [5].

SUBTASK 38-32-01-420-214-002

- (4) Put the vacuum toilet assembly [11] in its position.

SUBTASK 38-32-01-420-215-002

- (5) Put the bolts [10] and washers [17] in the installed position, but do not tighten.

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SUBTASK 38-32-01-420-217-002

- (6) Install the sleeve [7] and coupling [6] to connect the vacuum waste line [8] to the discharge drain [5].

NOTE: Turn the clamp (before you latch it) to put it in a position that will give the easiest access to the latch.

SUBTASK 38-32-01-420-218-002

- (7) Tighten the bolts [10] for the toilet.

SUBTASK 38-32-01-110-007-002

- (8) Do this task: Rinse Water Supply Cleaning, TASK 38-32-01-100-804-002.

SUBTASK 38-32-01-420-220-002

- (9) Remove the nut [15] and washer [16] to connect the bonding jumper [14] to the toilet.

- (a) Install the nut [15] and washer [16] to connect the bonding jumper [14] to the toilet.
- 1) Use cotton wiper, G00034, moist in solvent, B00184, to clean the mating surfaces of the ground stud, nut [15], washer [16], and bonding jumper [14].
 - 2) Install the bonding jumper [14], washer [16], and nut [15].
 - 3) Tighten the nut [15] to 33 in-lb (4 N·m) - 40 in-lb (5 N·m).
 - 4) Measure the electrical resistance between the bonding jumper [14] and toilet structure (SWPM 20-20-00).
 - a) Use a non-intrinsically safe bonding meter, COM-614.
 - b) Make sure that the electrical bonding resistance is 0.0015 ohm (1.5 milliohm) or less.
 - 5) Apply a fillet seal with sealant, A50337, sealant, A50231, or sealant, A50359, to cover the nut [15], washer [16], and bonding jumper [14] (SWPM 20-20-10).

SUBTASK 38-32-01-420-221-002

- (10) Connect the electrical connector [3] to the power supply for the toilet.

H. Vacuum Toilet Assembly Installation Test

SUBTASK 38-32-01-040-044-002



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.

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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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT

SUBTASK 38-32-01-410-066-002

- (2) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-32-01-860-072-002

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

SUBTASK 38-32-01-860-073-002

- (4) Set the water shutoff valve for the lavatory to the ON position.

SUBTASK 38-32-01-610-007-002

- (5) If the potable water tank is empty, then do this task: Potable Water Tank - Fill, TASK 12-14-01-600-802.

SUBTASK 38-32-01-710-027-002

- (6) Flush the toilet a minimum of two times to make sure it operates correctly.

SUBTASK 38-32-01-700-002-002

- (7) Make sure that the vacuum toilet assembly [11] and its connections do not leak.
 - (a) If there are leaks, check for damaged parts or loose connections.

I. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-01-410-039-002

- (1) To install the toilet shroud, do this task: Toilet Shroud Installation, TASK 38-32-01-400-834-002.

———— END OF TASK ————

EFFECTIVITY
LOM 404, 416, 426-431, 445, 461-463; AIRPLANES
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

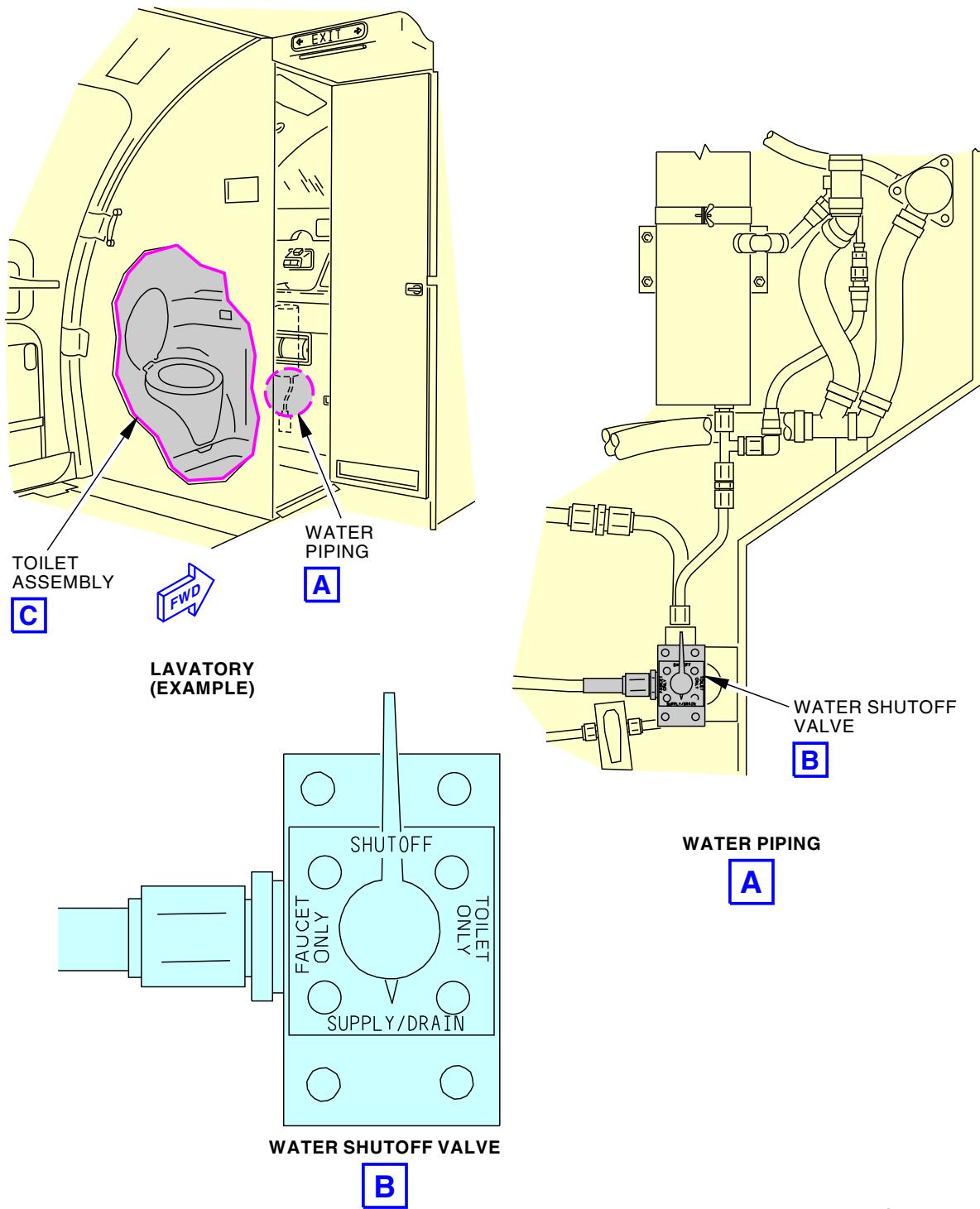
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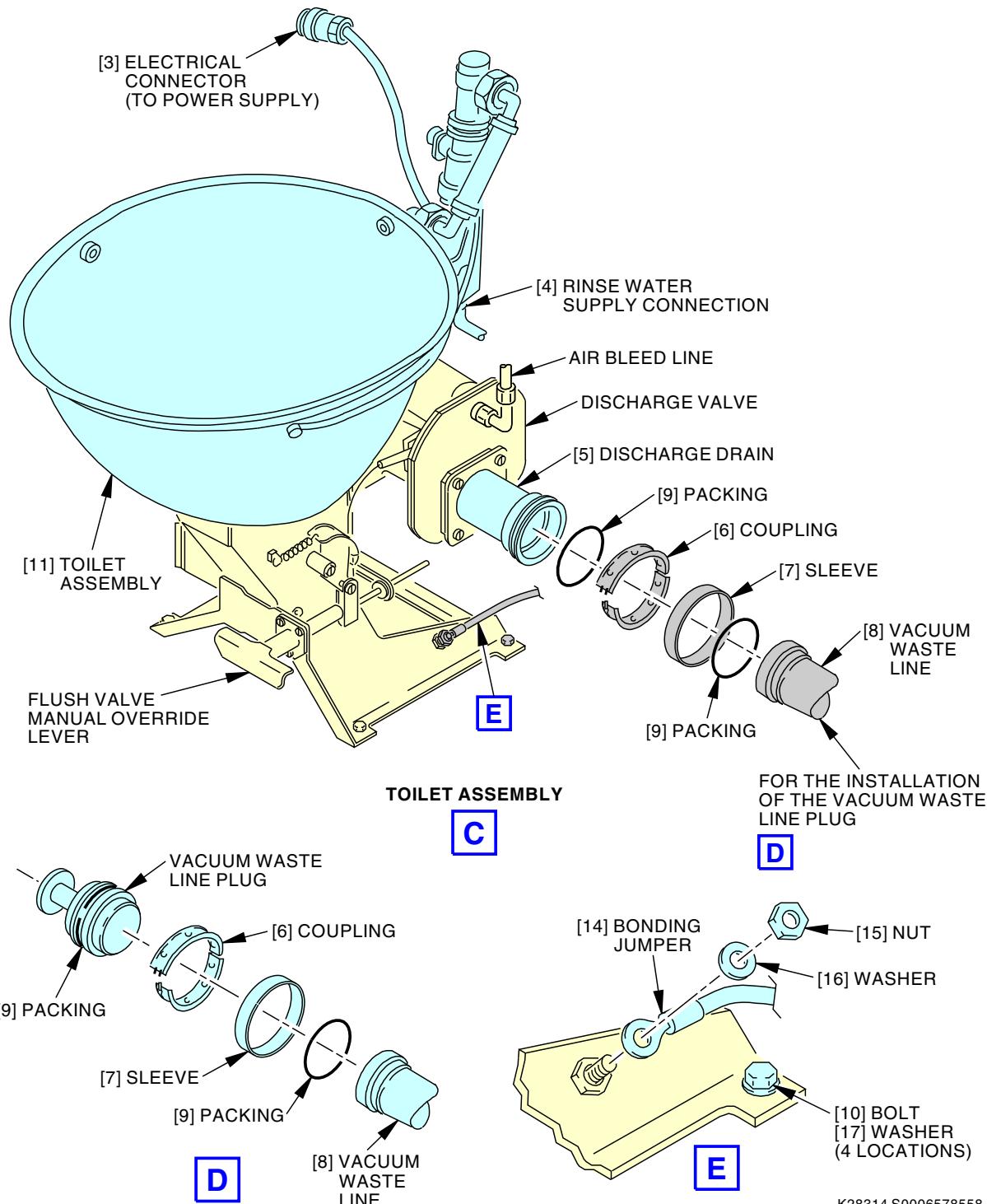
Toilet Assembly Installation
Figure 402/38-32-01-990-817-002 (Sheet 1 of 2)

EFFECTIVITY
 LOM 404, 416, 426-431, 445, 461-463; AIRPLANES
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Toilet Assembly Installation
Figure 402/38-32-01-990-817-002 (Sheet 2 of 2)

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TASK 38-32-01-000-839-002

10. Flush Control Assembly Removal

(Figure 403)

A. **References**

Reference	Title
20-40-12-000-801	ESDS Handling for Printed Circuit Board Removal (P/B 201)

B. **Location Zones**

Zone	Area
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage

C. **Access Panels**

Number	Name/Location
117A	Electronic Equipment Access Door

D. **Prepare for the Removal**

SUBTASK 38-32-01-010-170-002

- (1) Get access to the lavatory for the toilet removal.

SUBTASK 38-32-01-010-202-002

- (2) Open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 38-32-01-040-045-002



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.

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

Power Distribution Panel Number 1, P91

Row	Col	Number	Name
C	11	C01388	VACUUM WASTE CONT

SUBTASK 38-32-01-860-074-002

- (4) Set the water shutoff valve for the lavatory to the FAUCET ONLY or OFF position (Figure 402).

SUBTASK 38-32-01-010-171-002

- (5) To remove the toilet shroud, do this task: Toilet Shroud Removal, TASK 38-32-01-000-834-002.

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E. Flush Control Assembly Removal

SUBTASK 38-32-01-020-211-002

- (1) Disconnect the electrical connector [33] from the power supply of the toilet.

SUBTASK 38-32-01-020-212-002

- (2) Disconnect the electrical connectors for the rinse valve and flush valve from the flush control unit [30].

SUBTASK 38-32-01-020-213-002

- (3) Remove the nuts [39] that attach the enclosure assembly [35] of the flush control unit [30] to the toilet pedestal.

SUBTASK 38-32-01-020-214-002

- (4) Remove the flush control unit [30].

SUBTASK 38-32-01-020-215-002



CAUTION

DO NOT DISASSEMBLE THE FLUSH CONTROL ASSEMBLY BEFORE YOU
DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO
ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE
DAMAGE TO THE PC BOARD.

- (5) If it is necessary, do the steps that follow to remove the PC board from the flush control assembly:
 - (a) Do this task: ESDS Handling for Printed Circuit Board Removal, TASK 20-40-12-000-801.
 - (b) Remove the screws [31], nuts [47], seals [46], and washers [32] for the cover [43].
 - (c) Remove the cover [43] and seal [41] from the enclosure assembly [35].
 - (d) Remove the PC board assembly [42] from the enclosure assembly [35].

———— END OF TASK ————

— EFFECTIVITY —
LOM 404, 416, 426-431, 445, 461-463; AIRPLANES
WITH ENVIROVAC TOILET

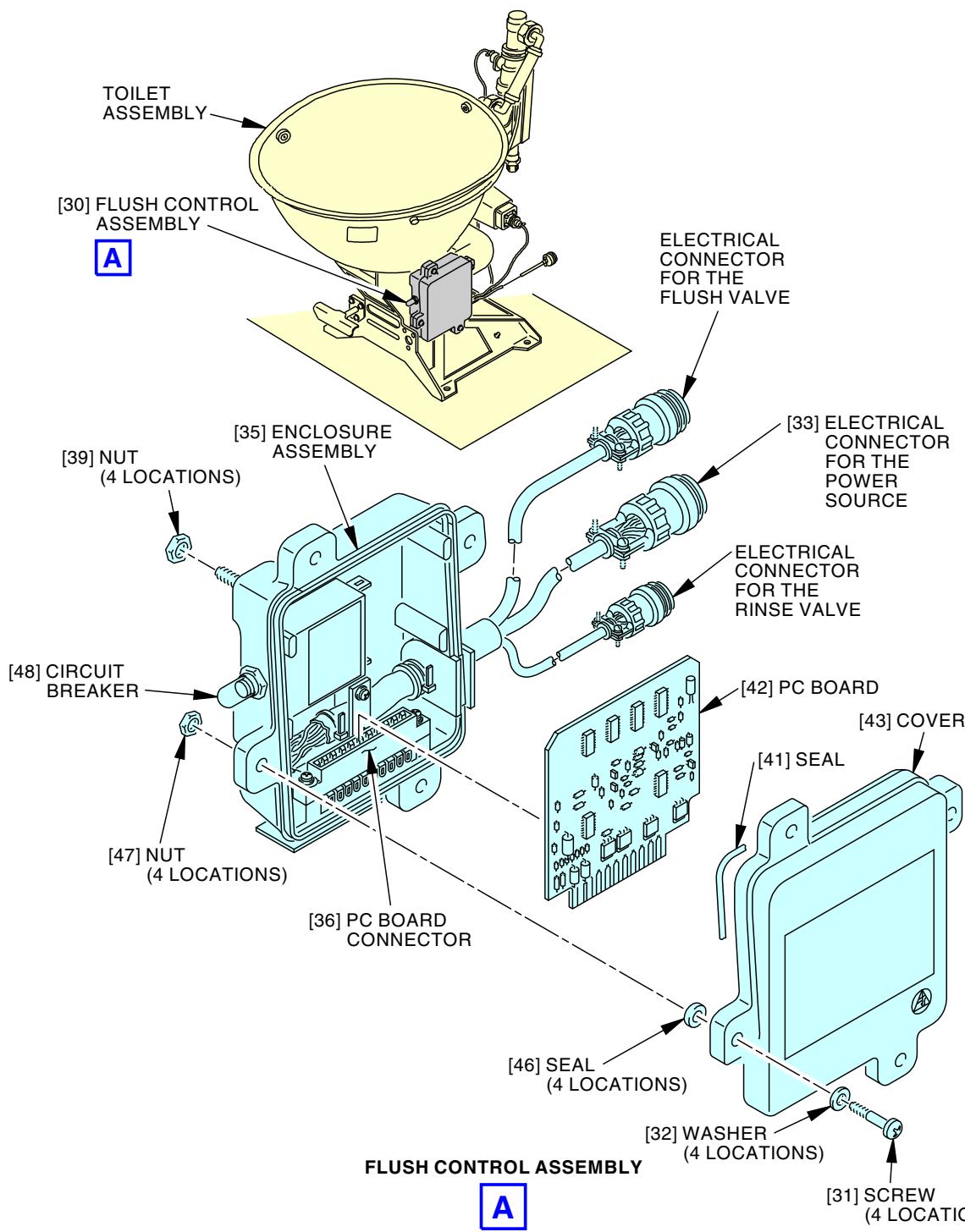
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Flush Control Assembly Installation
Figure 403/38-32-01-990-818-002

EFFECTIVITY
LOM 404, 416, 426-431, 445, 461-463; AIRPLANES
WITH ENVIROVAC TOILET

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TASK 38-32-01-400-839-002

11. Flush Control Assembly Installation

(Figure 403)

A. References

Reference	Title
12-14-01-600-802	Potable Water Tank - Fill (P/B 301)
20-40-12-400-801	ESDS Handling for Printed Circuit Board Installation (P/B 201)
24-22-00-860-811	Supply Electrical Power (P/B 201)
38-42-00-800-802	Potable Water System - Activation (P/B 201)

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
30	Control unit	38-32-01-60-031	LOM 404, 416, 426-431, 445, 461-463
41	Seal	38-32-01-61-060	LOM 404, 416, 426-431, 445, 461-463
42	Board assembly	38-32-01-61-185	LOM 404, 416, 426-431, 445, 461-463
43	Cover	38-32-01-61-035	LOM 404, 416, 426-431, 445, 461-463

C. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage

D. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

E. Flush Control Assembly Installation

SUBTASK 38-32-01-420-222-002



CAUTION

DO NOT ASSEMBLE THE FLUSH CONTROL ASSEMBLY BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE PC BOARD.

- (1) If it is not installed, then do these steps to install the PC board:
 - (a) Do this task: ESDS Handling for Printed Circuit Board Installation, TASK 20-40-12-400-801.
 - (b) Put the PC board assembly [42] in its position in the enclosure assembly [35] and then connect it to its PC board connector [36].
 - (c) Put the seal [41] and cover [43] in their position around the edge of the enclosure assembly [35].
 - (d) Install the screws [31], nuts [47], seals [46], and washers [32].

SUBTASK 38-32-01-420-223-002

- (2) Put the flush control unit [30] in its position on the toilet assembly.

- (a) Install the nuts [39] that attach the flush control unit [30] to the toilet assembly.

EFFECTIVITY
LOM 404, 416, 426-431, 445, 461-463; AIRPLANES
WITH ENVIROVAC TOILET

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SUBTASK 38-32-01-420-224-002

- (3) Connect the electrical connectors for the rinse valve and flush valve to the flush control unit [30].

SUBTASK 38-32-01-420-225-002

- (4) Connect the electrical connector [33] for the power supply for the toilet.

F. Flush Control Assembly Installation Test

SUBTASK 38-32-01-040-046-002



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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT

SUBTASK 38-32-01-410-067-002

- (2) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-32-01-860-075-002

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

SUBTASK 38-32-01-860-076-002

- (4) Set the water shutoff valve for the lavatory to the ON position.

SUBTASK 38-32-01-610-008-002

- (5) If the potable water tank is empty, then do this task: Potable Water Tank - Fill, TASK 12-14-01-600-802.

SUBTASK 38-32-01-860-077-002

- (6) Do this task: Potable Water System - Activation, TASK 38-42-00-800-802.

SUBTASK 38-32-01-710-028-002

- (7) Flush the toilet a minimum of two times to make sure it operates correctly.

G. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-01-410-040-002

- (1) To install the toilet shroud, do this task: Toilet Shroud Installation, TASK 38-32-01-400-834-002.

———— END OF TASK ————

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TASK 38-32-01-000-840-002

12. Flush Valve Removal

(Figure 404)

A. References

Reference	Title
38-32-00-910-801	Standard Practices for Work with the Toilet Waste and Equipment (P/B 201)

B. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage

C. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

D. Prepare for the Removal

SUBTASK 38-32-01-010-172-002

- (1) Get access to the lavatory for the toilet removal.

SUBTASK 38-32-01-010-203-002

- (2) Open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 38-32-01-040-047-002



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.

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

Power Distribution Panel Number 1, P91

Row	Col	Number	Name
C	11	C01388	VACUUM WASTE CONT

SUBTASK 38-32-01-860-078-002

- (4) Set the water shutoff valve for the lavatory to the FAUCET ONLY or OFF position (Figure 402).

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LOM 404, 416, 426-431, 445, 461-463; AIRPLANES
WITH ENVIROVAC TOILET

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SUBTASK 38-32-01-910-024-002

- (5) Do this task: Standard Practices for Work with the Toilet Waste and Equipment, TASK 38-32-00-910-801.

SUBTASK 38-32-01-010-173-002

- (6) To remove the toilet shroud, do this task: Toilet Shroud Removal, TASK 38-32-01-000-834-002.

SUBTASK 38-32-01-010-174-002

- (7) If it is necessary for better access, do this task: Vacuum Toilet Assembly Removal, TASK 38-32-01-000-838-002.

E. Flush Valve Removal

SUBTASK 38-32-01-020-216-002

- (1) Disconnect the vent tube from the elbow fitting [67] on the flush valve assembly [66].

SUBTASK 38-32-01-020-217-002

- (2) Disconnect the electrical connector for the flush valve assembly [66].

SUBTASK 38-32-01-020-218-002

- (3) Remove the screws [64] that attach the discharge pipe [69] to the flush valve assembly [66].

SUBTASK 38-32-01-020-219-002

- (4) Remove and then discard the packing [70].

SUBTASK 38-32-01-020-220-002

- (5) Remove the screws [61] that attach the toilet elbow [63] to the flush valve assembly [66].

SUBTASK 38-32-01-020-221-002

- (6) Remove and then discard the packing [70].

SUBTASK 38-32-01-020-222-002

- (7) Remove the flush valve assembly [66].

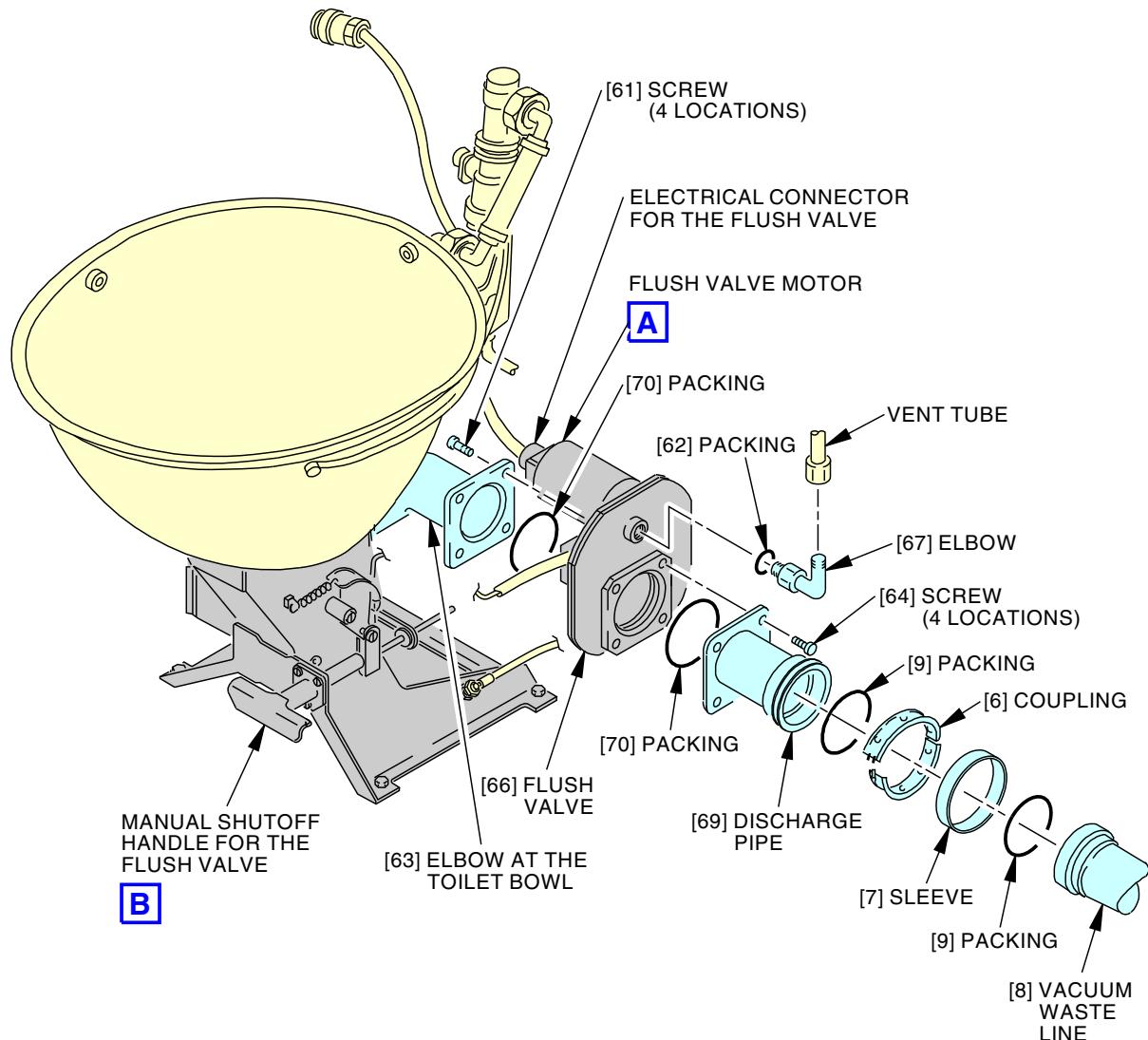
———— END OF TASK ————

— EFFECTIVITY —
LOM 404, 416, 426-431, 445, 461-463; AIRPLANES
WITH ENVIROVAC TOILET

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Toilet Flush Valve and Motor Installation
Figure 404/38-32-01-990-819-002 (Sheet 1 of 2)

EFFECTIVITY
LOM 404, 416, 426-431, 445, 461-463; AIRPLANES
WITH ENVIROVAC TOILET

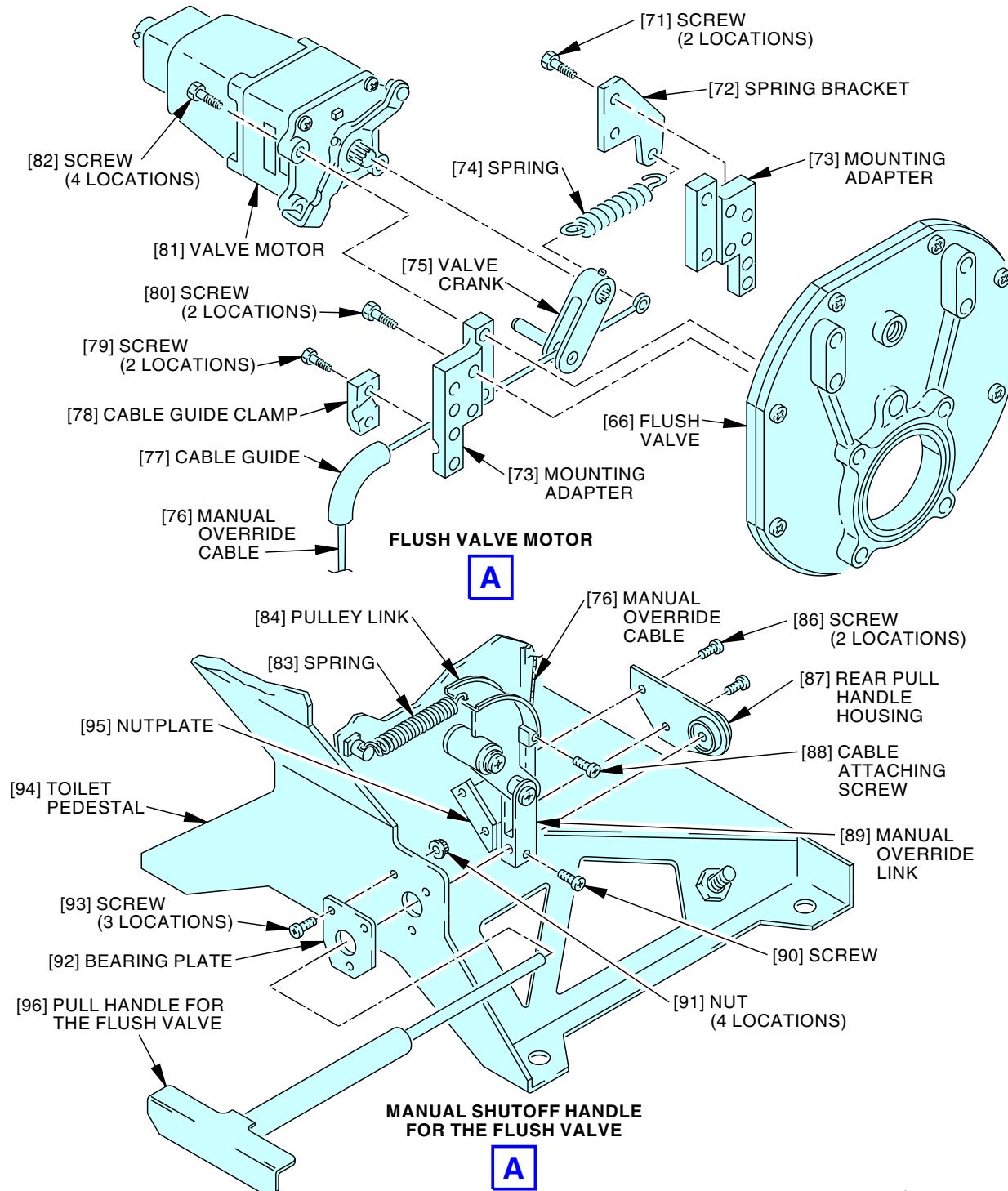
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Toilet Flush Valve and Motor Installation
Figure 404/38-32-01-990-819-002 (Sheet 2 of 2)

EFFECTIVITY
LOM 404, 416, 426-431, 445, 461-463; AIRPLANES
WITH ENVIROVAC TOILET

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TASK 38-32-01-400-840-002

13. Flush Valve Installation

(Figure 404)

A. References

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)

B. Consumable Materials

Reference	Description	Specification
D00189	Compound - Molykote 111 (Formerly Dow Corning 111, Valve Sealant and Lubricant)	
D00463	Grease - Food Processing Equipment	DOD-G-24650

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
66	Valve assembly	38-32-01-60-125	LOM 404, 416, 426-431, 445, 461-463
		38-32-01-60D-120	LOM 404, 416, 426-431, 445, 461-463
		38-32-01-60E-120	LOM 404, 416, 426-431, 445, 461-463
		38-32-01-60G-120	LOM 445
		38-32-01-60-115	LOM 404, 416, 426-431, 445, 461-463
		38-32-01-60-265	LOM 404, 416, 426-431, 445, 461-463
		38-32-01-60D-110	LOM 404, 416, 426-431, 445, 461-463
		38-32-01-60D-235	LOM 404, 416, 426-431, 445, 461-463
		38-32-01-60E-110	LOM 404, 416, 426-431, 445, 461-463
		38-32-01-60E-235	LOM 404, 416, 426-431, 445, 461-463
		38-32-01-60G-110	LOM 445
		38-32-01-60G-235	LOM 445

D. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage

E. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

F. Flush Valve Installation

SUBTASK 38-32-01-420-226-002

- (1) Apply the grease, D00463, or Molykote 111 Compound, D00189, to the packings [70].

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SUBTASK 38-32-01-420-227-002

- (2) Install the packing [70] between the flush valve assembly [66] and toilet elbow [63].

SUBTASK 38-32-01-420-228-002

- (3) Put the flush valve assembly [66] in its position on the flange surface of the toilet elbow [63].

SUBTASK 38-32-01-420-229-002

- (4) Loosely install the screws [61] that attach the flush valve assembly [66] to the elbow [63].

- (a) Do not tighten the screws [61].

SUBTASK 38-32-01-420-230-002

- (5) Install the packing [70] between the flush valve assembly [66] and pipe [69].

SUBTASK 38-32-01-420-231-002

- (6) Loosely install the screws [64] that attach the pipe [69] to the flush valve assembly [66].

- (a) Do not tighten the screws [64].

SUBTASK 38-32-01-420-232-002

- (7) Connect the vent tube to the elbow fitting [67] on the flush valve assembly [66].

SUBTASK 38-32-01-420-233-002

- (8) Connect the electrical connector for the flush valve assembly [66].

SUBTASK 38-32-01-420-234-002

- (9) Tighten the screws [61] and screws [64] that connect the flush valve assembly [66] with the flange on the pipe [69] and with the flange on the toilet elbow [63].

SUBTASK 38-32-01-410-041-002

- (10) If it was necessary to remove the vacuum toilet assembly for better access, do this task:
Vacuum Toilet Assembly Installation, TASK 38-32-01-400-838-002.

G. Flush Valve Installation Test

SUBTASK 38-32-01-040-048-002



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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT

EFFECTIVITY
LOM 404, 416, 426-431, 445, 461-463; AIRPLANES
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SUBTASK 38-32-01-410-068-002

- (2) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-32-01-860-079-002

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

SUBTASK 38-32-01-860-080-002

- (4) Set the water shutoff valve for the lavatory to the ON position.

SUBTASK 38-32-01-710-029-002

- (5) Flush the toilet a minimum of two times to make sure that it operates correctly.

SUBTASK 38-32-01-700-003-002

- (6) Make sure that the flush valve assembly [66] and its connections do not leak.

(a) If there are leaks, check for damaged parts or loose connections.

H. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-01-410-042-002

- (1) To install the toilet shroud, do this task: Toilet Shroud Installation, TASK 38-32-01-400-834-002.

————— END OF TASK ————

TASK 38-32-01-000-841-002

14. Flush Valve Motor Removal

(Figure 404)

A. References

Reference	Title
38-32-00-910-801	Standard Practices for Work with the Toilet Waste and Equipment (P/B 201)

B. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage

C. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

D. Prepare for the Removal

SUBTASK 38-32-01-010-175-002

- (1) Get access to the lavatory for the toilet removal.

SUBTASK 38-32-01-010-204-002

- (2) Open this access panel:

Number Name/Location

117A Electronic Equipment Access Door

EFFECTIVITY
LOM 404, 416, 426-431, 445, 461-463; AIRPLANES
WITH ENVIROVAC TOILET

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SUBTASK 38-32-01-040-049-002



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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT

SUBTASK 38-32-01-860-081-002

- (4) Set the water shutoff valve for the lavatory to the FAUCET ONLY or OFF position (Figure 402).

SUBTASK 38-32-01-910-025-002

- (5) Do this task: Standard Practices for Work with the Toilet Waste and Equipment, TASK 38-32-00-910-801.

SUBTASK 38-32-01-010-176-002

- (6) To remove the toilet shroud, do this task: Toilet Shroud Removal, TASK 38-32-01-000-834-002.

SUBTASK 38-32-01-010-177-002

- (7) If it is necessary for better access, do this task: Vacuum Toilet Assembly Removal, TASK 38-32-01-000-838-002.

E. Flush Valve Motor Removal

SUBTASK 38-32-01-020-223-002

- (1) Disconnect the electrical connector for the flush valve motor.

SUBTASK 38-32-01-010-178-002

- (2) Remove the screws [82] that attach the flush motor [81] to the flush valve assembly [66].

SUBTASK 38-32-01-020-224-002

- (3) Loosen the set screw in the valve crank to disconnect the flush valve motor [81].

SUBTASK 38-32-01-010-179-002

- (4) Remove the flush valve motor [81] from the mounting adapter [73].

———— END OF TASK ————

— EFFECTIVITY —
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TASK 38-32-01-400-841-002

15. Flush Valve Motor Installation

(Figure 404)

A. References

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
81	Motor	38-32-01-60-145	LOM 404, 416, 426-431, 445, 461-463

C. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage

D. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

E. Flush Valve Motor Installation

SUBTASK 38-32-01-420-235-002

- (1) Put the flush valve motor [81] on the mounting adapter [73].

SUBTASK 38-32-01-420-236-002

- (2) Install the screws [82] that attach the flush motor [81] to the flush valve assembly [66].

SUBTASK 38-32-01-420-237-002

- (3) Tighten the set screw that attaches the valve crank to the shaft of the flush motor [81].

SUBTASK 38-32-01-020-225-002

- (4) Connect the electrical connector from the flush control unit to the flush motor [81].

SUBTASK 38-32-01-410-043-002

- (5) If you removed the vacuum toilet assembly for better access, do this task: Vacuum Toilet Assembly Installation, TASK 38-32-01-400-838-002.

F. Flush Valve Motor Installation Test

SUBTASK 38-32-01-040-050-002



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.

EFFECTIVITY
LOM 404, 416, 426-431, 445, 461-463; AIRPLANES
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(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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT

SUBTASK 38-32-01-410-069-002

- (2) Close this access panel:

Number Name/Location

117A	Electronic Equipment Access Door
------	----------------------------------

SUBTASK 38-32-01-860-082-002

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

SUBTASK 38-32-01-860-083-002

- (4) Set the water shutoff valve for the lavatory to the ON position.

SUBTASK 38-32-01-710-030-002

- (5) Flush the toilet a minimum of two times to make sure it operates correctly.

SUBTASK 38-32-01-700-004-002

- (6) Make sure that the flush valve motor [81] and its connections do not leak.

- (a) If there are leaks, check for damaged parts or loose connections.

G. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-01-410-044-002

- (1) To install the toilet shroud, do this task: Toilet Shroud Installation, TASK 38-32-01-400-834-002.

———— END OF TASK ————

TASK 38-32-01-000-842-002

16. Rinse Valve Removal

(Figure 405)

A. References

<u>Reference</u>	<u>Title</u>
38-32-00-910-801	Standard Practices for Work with the Toilet Waste and Equipment (P/B 201)

B. Location Zones

<u>Zone</u>	<u>Area</u>
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage

EFFECTIVITY
LOM 404, 416, 426-431, 445, 461-463; AIRPLANES
WITH ENVIROVAC TOILET

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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C. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

D. Prepare for the Removal

SUBTASK 38-32-01-010-180-002

- (1) Get access to the lavatory for the toilet removal.

SUBTASK 38-32-01-010-205-002

- (2) Open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 38-32-01-040-051-002



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.

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

Power Distribution Panel Number 1, P91

Row	Col	Number	Name
C	11	C01388	VACUUM WASTE CONT

SUBTASK 38-32-01-860-084-002

- (4) Set the water shutoff valve for the lavatory to the FAUCET ONLY or OFF position (Figure 402).

SUBTASK 38-32-01-910-026-002

- (5) Do this task: Standard Practices for Work with the Toilet Waste and Equipment, TASK 38-32-00-910-801.

SUBTASK 38-32-01-010-181-002

- (6) To remove the toilet shroud, do this task: Toilet Shroud Removal, TASK 38-32-01-000-834-002.

SUBTASK 38-32-01-010-182-002

- (7) If it is necessary for better access, do this task: Vacuum Toilet Assembly Removal, TASK 38-32-01-000-838-002.

E. Rinse Valve Removal

SUBTASK 38-32-01-020-226-002

- (1) Disconnect the electrical connector [111] from the rinse valve assembly [110].

SUBTASK 38-32-01-020-278-002

- (2) If it is not removed, disconnect the rinse water supply connection [4] from the rinse valve assembly [110].

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LOM 404, 416, 426-431, 445, 461-463; AIRPLANES
WITH ENVIROVAC TOILET



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SUBTASK 38-32-01-020-227-002

- (3) Disconnect the rinse water hose assembly [115] from the rinse valve assembly [110].

SUBTASK 38-32-01-020-228-002

- (4) Remove the nuts [117] and washers [116] to disconnect the bonding jumper cable [118] from the rinse valve assembly [110].

SUBTASK 38-32-01-020-279-002

- (5) Remove the nut [127], screws [113], and mounting bracket [120].

SUBTASK 38-32-01-020-229-002

- (6) Remove the clamp [112], clamp [114], and clamps [119] that attach the rinse valve assembly [110] to the toilet bowl [125].

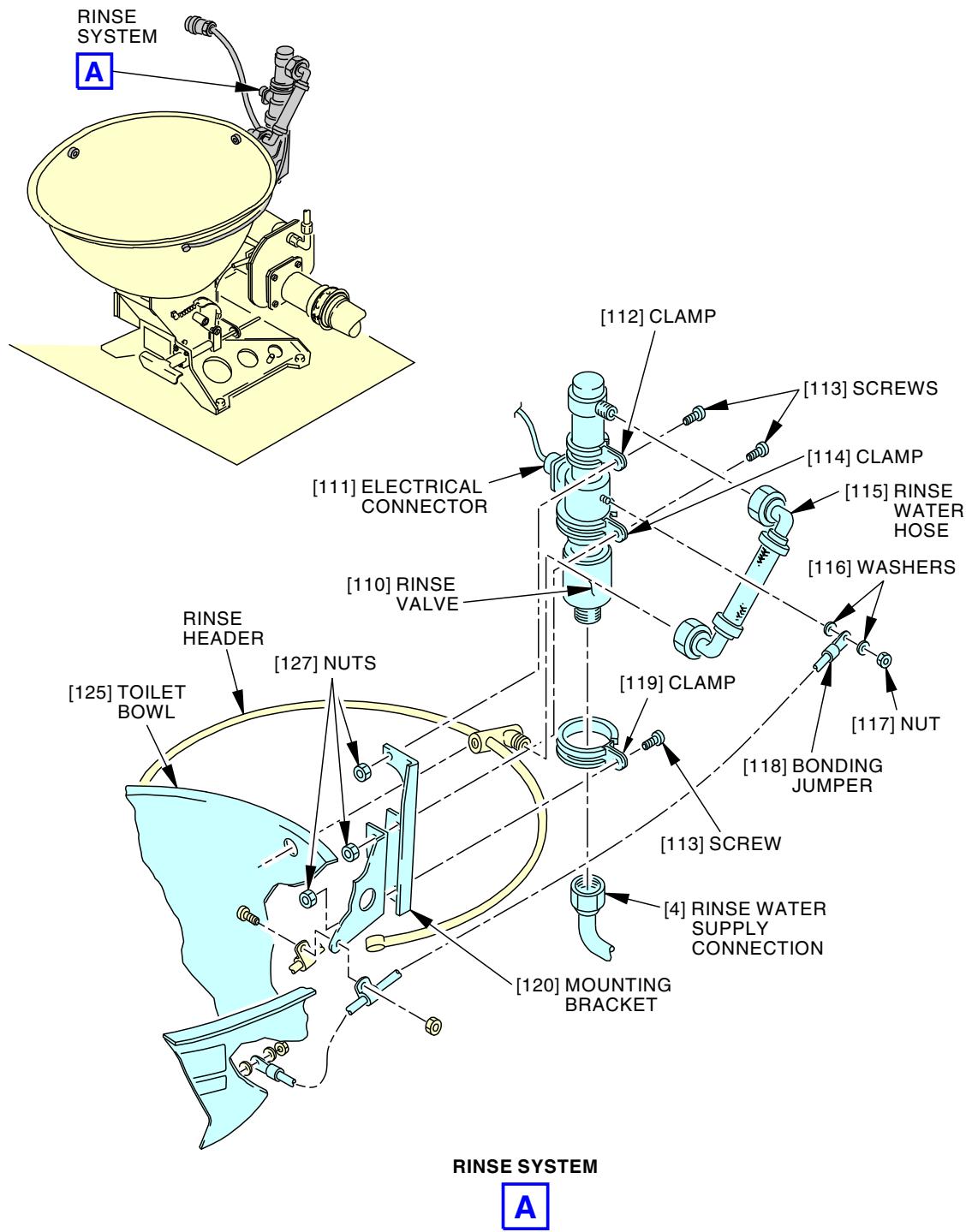
———— END OF TASK ——

— EFFECTIVITY —
LOM 404, 416, 426-431, 445, 461-463; AIRPLANES
WITH ENVIROVAC TOILET

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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**Toilet Rinse Valve Installation
Figure 405/38-32-01-990-820-002**

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LOM 404, 416, 426-431, 445, 461-463; AIRPLANES
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TASK 38-32-01-400-842-002

17. Rinse Valve Installation

(Figure 405)

A. References

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
110	Valve assembly	38-32-01-60-520	LOM 404, 416, 426-431, 445, 461-463
		38-32-01-60D-485	LOM 404, 416, 426-431, 445, 461-463
		38-32-01-60E-485	LOM 404, 416, 426-431, 445, 461-463
		38-32-01-60G-485	LOM 445

C. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage

D. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

E. Rinse Valve Installation

SUBTASK 38-32-01-420-238-002

- (1) Put the rinse valve assembly [110] in its position on the toilet bowl.

SUBTASK 38-32-01-420-239-002

- (2) Install the clamp [112], clamp [114], and clamps [119] that attach the rinse valve assembly [110] to the toilet bowl [125].

SUBTASK 38-32-01-420-295-002

- (3) Position the mounting bracket [120] on the rinse valve assembly [110].

- (a) Align the screw holes in clamps [112], clamps [114], and clamps [119] with screw holes in mounting bracket [120].

SUBTASK 38-32-01-420-296-002

- (4) Install the screws [113] and nuts [127].

SUBTASK 38-32-01-420-240-002

- (5) Install the nut [117] and washers [116] to connect the bonding jumper cable [118] to the rinse valve assembly [110].

SUBTASK 38-32-01-420-241-002

- (6) Connect the rinse hose assemblies [115] to the rinse valve assembly [110].

SUBTASK 38-32-01-110-008-002

- (7) Do this task: Rinse Water Supply Cleaning, TASK 38-32-01-100-804-002.

EFFECTIVITY
LOM 404, 416, 426-431, 445, 461-463; AIRPLANES
WITH ENVIROVAC TOILET



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SUBTASK 38-32-01-420-243-002

- (8) Connect the electrical connector [111] for the rinse valve assembly [110] to the flush control assembly.

SUBTASK 38-32-01-410-045-002

- (9) If removed, do this task: Vacuum Toilet Assembly Installation, TASK 38-32-01-400-838-002.

F. Rinse Valve Installation Test

SUBTASK 38-32-01-040-052-002



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.

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

Power Distribution Panel Number 1, P91

Row	Col	Number	Name
C	11	C01388	VACUUM WASTE CONT

SUBTASK 38-32-01-410-070-002

- (2) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-32-01-860-085-002

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

SUBTASK 38-32-01-860-086-002

- (4) Set the water shutoff valve for the lavatory to the ON position.

SUBTASK 38-32-01-710-031-002

- (5) Flush the toilet a minimum of two times to make sure it operates correctly.

SUBTASK 38-32-01-700-005-002

- (6) Make sure that the rinse valve assembly [110] and its connections do not leak.

- (a) If there are leaks, check for damaged parts or loose connections.

G. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-01-410-046-002

- (1) Do this task: Toilet Shroud Installation, TASK 38-32-01-400-834-002.

———— END OF TASK ————

EFFECTIVITY
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WITH ENVIROVAC TOILET



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TASK 38-32-01-100-804-002

18. Rinse Water Supply Cleaning

(Figure 405)

A. General

- (1) Do this task to make sure that the potable water system is not contaminated when the vacuum toilet assembly is connected.

B. References

Reference	Title
20-10-44-400-801	Lockwire, Cotter Pins, and Lockrings - Installation (P/B 401)

C. Consumable Materials

Reference	Description	Specification
B00637	Acid, Citric	A-A-59147
G00022	Compound - Chlorine Dioxide For Water Purification - Purogene or Oxine	

D. Location Zones

Zone	Area
200	Upper Half of Fuselage

E. Rinse Water Supply Cleaning

SUBTASK 38-32-01-670-010-002

- (1) Make a disinfectant as follows:
 - (a) Mix 0.3 fluid ounces (0.008 liter) of chlorine dioxide Purogene or Oxine compound, G00022, and 13.4 ounces (0.4 liter) of citric acid, B00637, per gallon (4 liters) of disinfectant.
 - (b) Stop for five minutes.
 - (c) Add one gallon (4 liters) of water to complete the disinfectant.

SUBTASK 38-32-01-670-011-002

- (2) Clean the connections on the rinse water supply connection [4] with the disinfectant.

SUBTASK 38-32-01-670-012-002

- (3) Put approximately one cup (8 fluid ounces) (0.24 liter) of the disinfectant in the rinse water supply connection [4].

SUBTASK 38-32-01-420-244-002

- (4) Connect the supply line for the rinse water supply connection [4].

NOTE: This step is applicable to toilets with existing lock wiring provisions.

- (a) Do this task: Lockwire, Cotter Pins, and Lockrings - Installation, TASK 20-10-44-400-801.

SUBTASK 38-32-01-710-032-002

- (5) Flush the toilet a minimum of two times to make sure that the disinfectant is out of the rinse water supply connection [4].

———— END OF TASK ————

EFFECTIVITY
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WITH ENVIROVAC TOILET



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TOILET ASSEMBLY - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks for parts of the toilet system:
- (1) A removal of the toilet shroud assembly
 - (2) An installation of the toilet shroud assembly
 - (3) A removal of the vacuum toilet assembly
 - (4) An installation of the vacuum toilet assembly
 - (5) A removal of the flush valve assembly
 - (6) A installation of the flush valve assembly
 - (7) A removal of the rinse valve assembly
 - (8) A installation of the rinse valve assembly
 - (9) A removal of the Integrated System Controller (ISC)
 - (10) An installation of the Integrated System Controller (ISC).

TASK 38-32-01-000-843-003

2. Toilet Shroud Removal

Figure 401

A. References

Reference	Title
38-32-00-910-801	Standard Practices for Work with the Toilet Waste and Equipment (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-14266	Screwdriver - Driver Assembly
	Part #: 29-90-114-10 Supplier: 94222
	Part #: 29-90-214-10 Supplier: 94222

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Prepare for the Removal

SUBTASK 38-32-01-010-187-003

- (1) Get access to the lavatory for the toilet shroud removal.

SUBTASK 38-32-01-910-028-003

- (2) Do this task: Standard Practices for Work with the Toilet Waste and Equipment, TASK 38-32-00-910-801.

E. Toilet Shroud Removal

SUBTASK 38-32-01-020-253-003

- (1) Do these steps to remove the toilet shroud [21].
 - (a) Remove the center shroud panel [23] above the toilet.

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LOM 465-999; AIRPLANES WITH BE AEROSPACE
TOILET

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- 1) For lavatory A;
 - a) Pull on the center shroud panel [23] to disengage it from the magnetic mounts.
 - b) Remove the center shroud panel [23] from the lavatory.
 - 2) For all lavatories except A;
 - a) Pull the center shroud panel [23] out and up to disengage it from the bracket mounts.
 - b) Disconnect the center shroud panel [23] tether from the bracket mount and remove the panel from the lavatory.
- (b) Disengage the tamper proof 1/4 turn fasteners [22] at the top of the toilet shroud [21].
- 1) Put the driver assembly screwdriver, SPL-14266 on the 1/4 turn fastener [22] and turn to release.
 - 2) Make sure the 1/4 turn fasteners [22] are disengaged.
- NOTE: The fastener head will move away from the shroud when disengaged.
- (c) Remove the toilet shroud [21] from the lavatory.
- 1) Lift the toilet shroud [21] up and towards you to disengage the shroud guide pins [25] from the shroud supports [24] at the floor.

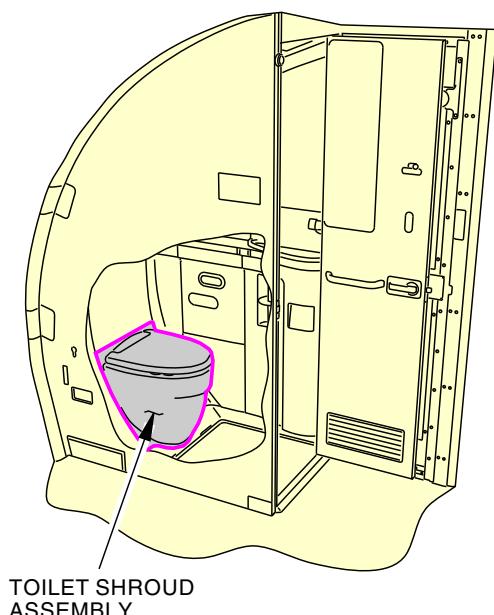
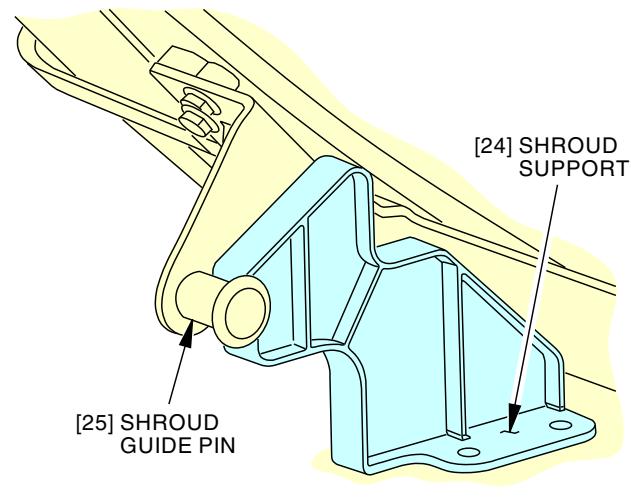
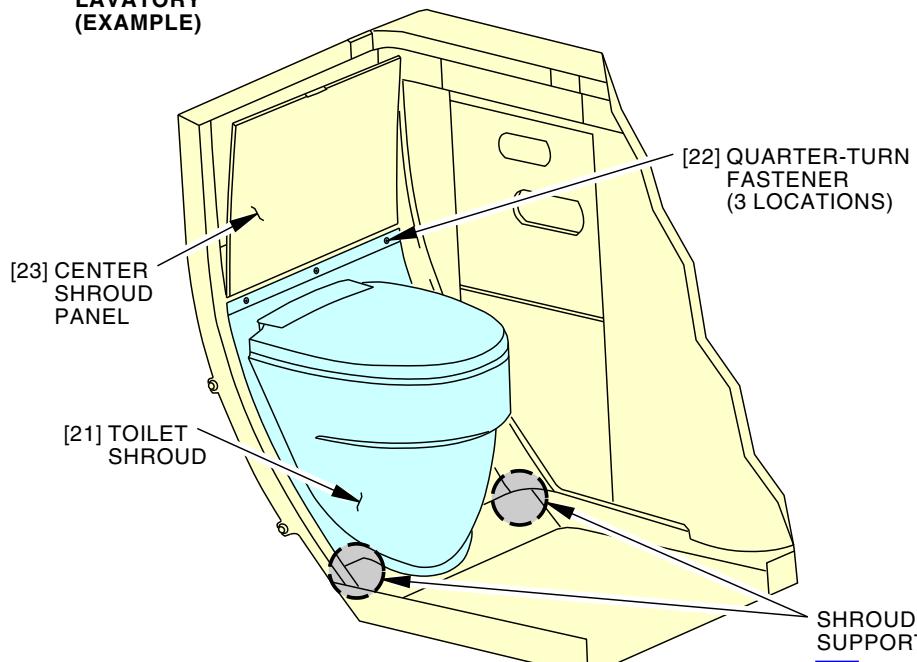
———— END OF TASK ————

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LOM 465-999; AIRPLANES WITH BE AEROSPACE
TOILET

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TOILET SHROUD ASSEMBLY
A

SHROUD SUPPORT (EXAMPLE)
B
LAVATORY (EXAMPLE)

TOILET SHROUD ASSEMBLY
A

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Toilet Shroud Installation
Figure 401/38-32-01-990-825-003

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 LOM 465-999; AIRPLANES WITH BE AEROSPACE
 TOILET

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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TASK 38-32-01-400-843-003

3. Toilet Shroud Installation

Figure 401

A. 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-14266	Screwdriver - Driver Assembly
	Part #: 29-90-114-10 Supplier: 94222
	Part #: 29-90-214-10 Supplier: 94222

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Toilet Shroud Installation

SUBTASK 38-32-01-420-255-003

- (1) Do these steps to install the toilet shroud.

- (a) Put the bottom of the toilet shroud [21] in its position with the shroud guide pins [25] against the shroud supports [24].
- (b) Push the toilet shroud [21], to its installed position against the lavatory surround structure.
- (c) Engage the tamper proof 1/4 turn fasteners [22] at the top of the toilet shroud [21].
 - 1) Put the driver assembly screwdriver, SPL-14266 on the 1/4 turn fasteners [22] and turn to tighten.
 - 2) Make sure the 1/4 turn fasteners [22] are engaged.
- (d) Install the center shroud panel [23] above the toilet.
 - 1) For lavatory A;
 - a) Put the center shroud panel [23] in its position to engage the magnetic mounts.
 - 2) For all lavatories except A;
 - a) Move the center shroud panel [23] down on to its bracket mounts and attach the tether.
 - b) Push the center shroud panel [23] into its installed position.

————— END OF TASK ————

TASK 38-32-01-000-844-003

4. Vacuum Toilet Assembly Removal

(Figure 402)

A. References

Reference	Title
38-32-00-910-801	Standard Practices for Work with the Toilet Waste and Equipment (P/B 201)

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LOM 465-999; AIRPLANES WITH BE AEROSPACE
TOILET

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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-1946	Plug - Vacuum Waste System Part #: A38007-9 Supplier: 81205

C. Consumable Materials

Reference	Description	Specification
D00189	Compound - Molykote 111 (Formerly Dow Corning 111, Valve Sealant and Lubricant)	
D00463	Grease - Food Processing Equipment	DOD-G-24650

D. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage

E. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

F. Prepare for the Removal

SUBTASK 38-32-01-010-186-003

- (1) Get access to the lavatory for the toilet removal.

SUBTASK 38-32-01-010-212-003

- (2) Open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 38-32-01-860-088-003



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.

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

Power Distribution Panel Number 1, P91

Row	Col	Number	Name
C	11	C01388	VACUUM WASTE CONT

EFFECTIVITY
LOM 465-999; AIRPLANES WITH BE AEROSPACE
TOILET

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SUBTASK 38-32-01-910-027-003

- (4) Set the water shutoff valve for the lavatory to the FAUCET ONLY or OFF position.

SUBTASK 38-32-01-010-185-003

- (5) Do this task: Standard Practices for Work with the Toilet Waste and Equipment, TASK 38-32-00-910-801.

SUBTASK 38-32-01-020-246-003

- (6) To remove the toilet shroud, do this task: Toilet Shroud Removal, TASK 38-32-01-000-843-003.

G. Vacuum Toilet Assembly Removal

SUBTASK 38-32-01-020-247-003

- (1) Disconnect the electrical connector [2].

SUBTASK 38-32-01-020-254-003

- (2) Disconnect the nut [15], washer [31], washers [14], and bonding jumper [13] from the toilet ground stud [16].

SUBTASK 38-32-01-680-007-003

- (3) Disconnect the coupling [4], O-ring [5], and rinse line [3] from the rinse valve assembly.

SUBTASK 38-32-01-020-248-003

- (4) Drain the rinse line [3] into a container.

SUBTASK 38-32-01-020-249-003

- (5) Remove the coupling [8] that attaches the vacuum waste line [10] to the discharge drain [6].

SUBTASK 38-32-01-020-250-003

- (6) Remove the sleeve [9] and packings [7], and disconnect the vacuum waste line [10].

SUBTASK 38-32-01-020-251-003

- (7) Remove the hitch pins [30] and quick release pins [29] from the base supports [12].

SUBTASK 38-32-01-000-001-003

- (8) Remove screws [17] and disconnect discharge drain [6].

SUBTASK 38-32-01-020-276-003

- (9) Remove and discard packing [18].

SUBTASK 38-32-01-020-252-003

- (10) Remove the vacuum toilet assembly [1].

SUBTASK 38-32-01-480-002-003

- (11) If the vacuum waste system will be operated while the toilet is removed, do these steps to install a plug in the vacuum waste line:

- (a) Apply grease, D00463, or Molykote 111 Compound, D00189, to the packing [7] on the waste line vacuum waste plug, SPL-1946.
- (b) Apply grease, D00463, or Molykote 111 Compound, D00189, to the packing [7] on the vacuum waste line [10].
- (c) Put the waste line vacuum waste plug, SPL-1946, in the vacuum waste line [10].
- (d) Attach the vacuum waste plug, SPL-1946, to the vacuum waste line [10] with the sleeve [9] and coupling [8].

———— END OF TASK ————

EFFECTIVITY
LOM 465-999; AIRPLANES WITH BE AEROSPACE
TOILET

ECCN 9E991 BOEING PROPRIETARY - See title page for details

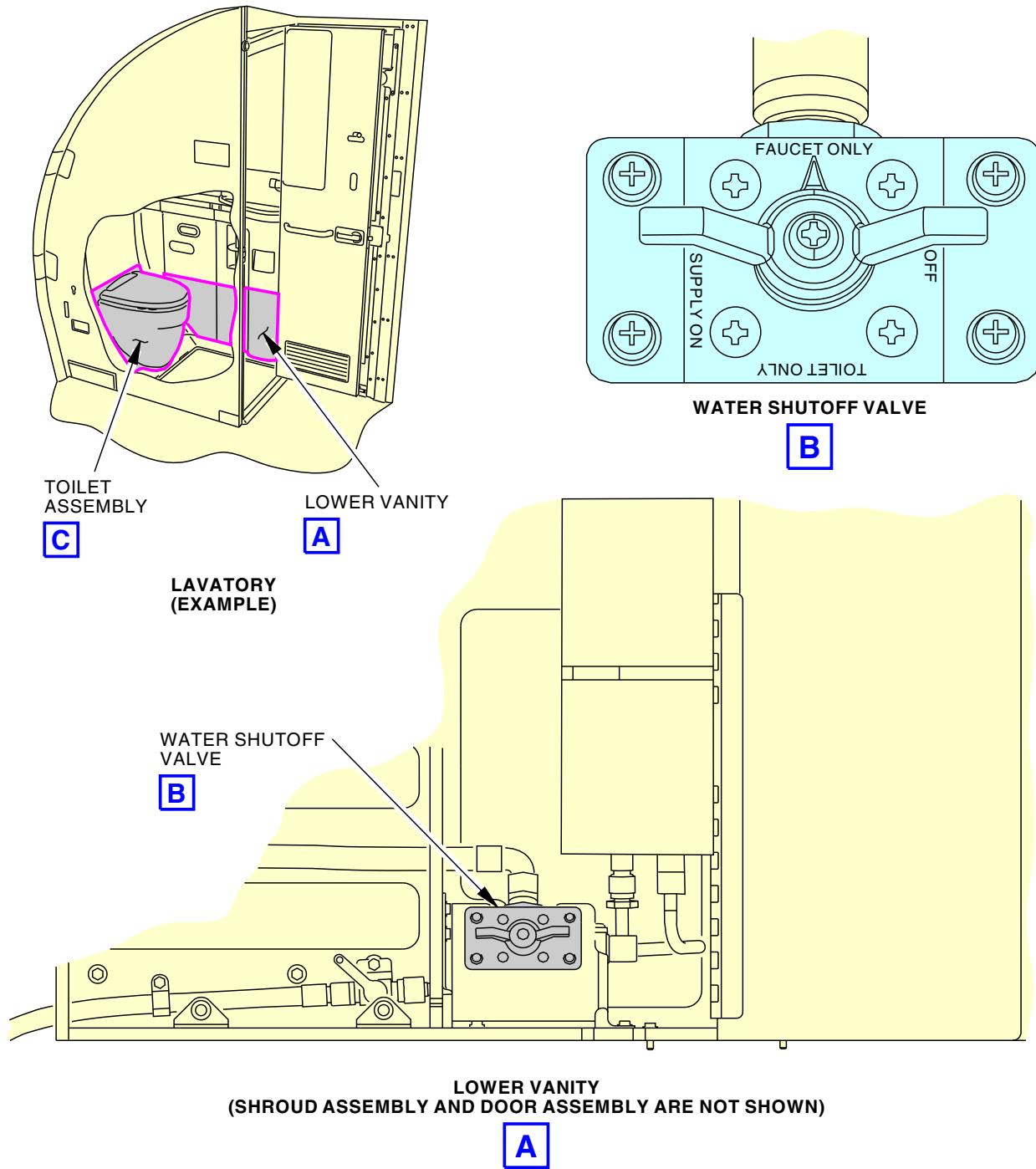
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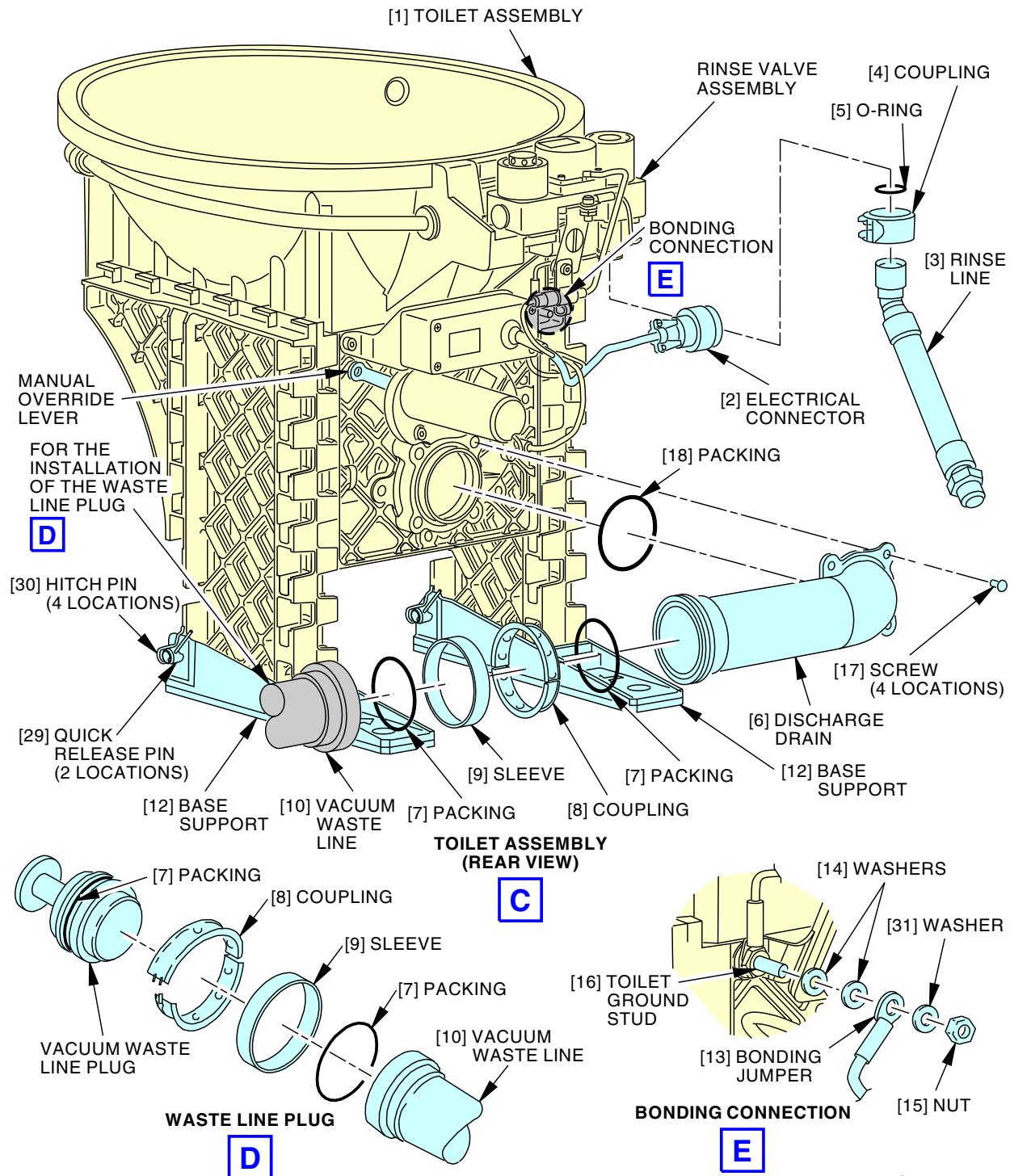
Toilet Assembly Installation
Figure 402/38-32-01-990-826-003 (Sheet 1 of 2)

EFFECTIVITY
 LOM 465-999; AIRPLANES WITH BE AEROSPACE
 TOILET

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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Toilet Assembly Installation
Figure 402/38-32-01-990-826-003 (Sheet 2 of 2)

EFFECTIVITY
 LOM 465-999; AIRPLANES WITH BE AEROSPACE
 TOILET

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TASK 38-32-01-400-844-003

5. Vacuum Toilet Assembly Installation

(Figure 402)

A. References

Reference	Title
12-14-01-600-802	Potable Water Tank - Fill (P/B 301)

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-1946	Plug - Vacuum Waste System Part #: A38007-9 Supplier: 81205

C. Consumable Materials

Reference	Description	Specification
D00189	Compound - Molykote 111 (Formerly Dow Corning 111, Valve Sealant and Lubricant)	
D00463	Grease - Food Processing Equipment	DOD-G-24650

D. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Toilet assembly	25-41-21-15J-080	LOM 466-999
		25-41-21-15K-080	LOM 465
		25-41-60-29C-060	LOM 465-999
		25-41-60-60E-080	LOM 465
5	O-ring	25-41-60-29C-055	LOM 465-999
7	Packing	38-31-51-70-065	LOM 465-999
		38-31-51-71-030	LOM 465-999
		38-31-51-72-030	LOM 465
18	Packing	25-41-21-15J-110	LOM 466-999
		25-41-21-15K-110	LOM 465
		25-41-60-29C-105	LOM 465-999
		25-41-60-60E-110	LOM 465

E. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage

F. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

G. Install the Toilet Assembly

SUBTASK 38-32-01-080-001-003

- (1) If a plug is installed in the vacuum waste line, do these steps to remove the waste line plug:

EFFECTIVITY
LOM 465-999; AIRPLANES WITH BE AEROSPACE
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- (a) Remove the coupling [8] and sleeve [9] that attaches the vacuum waste plug, SPL-1946, to the vacuum waste line [10].
- (b) Pull the plug from the vacuum waste line [10].

SUBTASK 38-32-01-420-256-003

- (2) Put grease, D00463, or Molykote 111 Compound, D00189, on the new packings [7] and packing [18].

SUBTASK 38-32-01-420-257-003

- (3) Put the new packings [7] on the vacuum waste line [10] and discharge drain [6].

SUBTASK 38-32-01-420-293-003

- (4) Put new packing [18] on the discharge drain [6] and toilet assembly [1].

SUBTASK 38-32-01-410-058-003

- (5) Install screws [17] to attach the discharge drain [6] and toilet assembly [1].

SUBTASK 38-32-01-410-049-003

- (6) Position the toilet assembly [1] in the base supports [12].

SUBTASK 38-32-01-410-050-003

- (7) Put the quick release pins [29] into the base supports [12].

- (a) Secure the quick release pins [29] with the hitch pins [30].

SUBTASK 38-32-01-410-051-003

- (8) Install the sleeve [9] and coupling [8] to connect the vacuum waste line [10] to the discharge drain [6].

- (a) Turn the coupling [8] before you latch it to put it in a position that will give the easiest access to the latch.

SUBTASK 38-32-01-670-014-003

- (9) Do this task: Rinse Water Supply Cleaning, TASK 38-32-01-110-801-003.

SUBTASK 38-32-01-420-260-003

- (10) Put grease, D00463, or Molykote 111 Compound, D00189, on the new O-ring [5].

SUBTASK 38-32-01-420-259-003

- (11) Connect the rinse line [3] to the rinse valve assembly with the new O-ring [5] and coupling [4].

SUBTASK 38-32-01-420-261-003

- (12) Connect the nut [15], washer [31], washers [14], and bonding jumper [13] to the toilet ground stud [16].

SUBTASK 38-32-01-420-258-003

- (13) Connect the electrical connector [2] to the power supply for the toilet.

H. Vacuum Toilet Assembly Installation Test

SUBTASK 38-32-01-860-089-003



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.

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(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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT

SUBTASK 38-32-01-410-076-003

- (2) Close this access panel:

Number Name/Location

117A	Electronic Equipment Access Door
------	----------------------------------

SUBTASK 38-32-01-860-091-003

- (3) Set the water shutoff valve for the lavatory to the SUPPLY ON position.

SUBTASK 38-32-01-600-001-003

- (4) If the potable water tank is empty, do this task: Potable Water Tank - Fill, TASK 12-14-01-600-802.

SUBTASK 38-32-01-710-033-003

- (5) Flush the toilet a minimum of two times to make sure that it operates correctly.

SUBTASK 38-32-01-790-001-003

- (6) Make sure that the connections do not leak.

I. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-01-410-052-003

- (1) To install the toilet shroud, do this task: Toilet Shroud Installation, TASK 38-32-01-400-843-003.

———— END OF TASK ————

TASK 38-32-01-110-801-003

6. Rinse Water Supply Cleaning

Figure 402

A. General

- (1) Do this task to make sure the potable water system is not contaminated when the vacuum toilet assembly is connected.

B. Consumable Materials

Reference	Description	Specification
B00637	Acid, Citric	A-A-59147
G00022	Compound - Chlorine Dioxide For Water Purification - Purogene or Oxine	

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C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Rinse Water Supply Cleaning

SUBTASK 38-32-01-110-009-003

- (1) Make a disinfectant as follows:

- (a) Mix 0.3 fluid ounces (0.01 liter) of chlorine dioxide Purogene or Oxine compound, G00022 and 13.4 ounces (0.4 liter) of citric acid, B00637 per gallon (4 liters) of disinfectant.
- (b) Stop for five minutes.
- (c) Add one gallon (4 liters) of water to complete the disinfectant.

SUBTASK 38-32-01-110-010-003

- (2) Clean the connections on the rinse line [3] and rinse valve assembly with disinfectant.

SUBTASK 38-32-01-110-011-003

- (3) Put approximately one cup (8 fluid ounces) (0.2 liter) of the disinfectant in the rinse line [3].

SUBTASK 38-32-01-170-001-003

- (4) Connect the rinse line [3] to the rinse valve assembly.

SUBTASK 38-32-01-170-002-003

- (5) Flush the toilet a minimum of two times to make sure the disinfectant is out of the supply line.

———— END OF TASK ————

TASK 38-32-01-000-845-003

7. Flush Valve Removal

(Figure 403)

A. References

Reference	Title
38-32-00-910-801	Standard Practices for Work with the Toilet Waste and Equipment (P/B 201)

B. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage

C. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

D. Prepare for the Removal

SUBTASK 38-32-01-010-188-003

- (1) Get access to the lavatory for the toilet removal.

SUBTASK 38-32-01-010-210-003

- (2) Open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

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SUBTASK 38-32-01-040-053-003



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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT

SUBTASK 38-32-01-860-092-003

- (4) Set the water shutoff valve for the lavatory to the FAUCET ONLY or OFF position (Figure 402).

SUBTASK 38-32-01-910-029-003

- (5) Do this task: Standard Practices for Work with the Toilet Waste and Equipment, TASK 38-32-00-910-801.

SUBTASK 38-32-01-010-189-003

- (6) To remove the toilet shroud, do this task: Toilet Shroud Removal, TASK 38-32-01-000-843-003.

SUBTASK 38-32-01-010-190-003

- (7) Do this task: Vacuum Toilet Assembly Removal, TASK 38-32-01-000-844-003.

SUBTASK 38-32-01-020-280-003

- (8) Remove the integrated system controller [32], do this task: Integrated System Controller (ISC) Removal, TASK 38-32-01-000-847-003.

E. Flush Valve Removal

SUBTASK 38-32-01-020-267-003

- (1) Remove the flush valve assembly [1].

NOTE: The flush valve and rear support structure are integrated as a single component.

- (a) Slide the flush valve assembly [1] straight up to detach it from the side supports [2].
(b) Move the flush valve assembly [1] rearward to clear the side supports [2] and lift clear.

SUBTASK 38-32-01-020-277-003

- (2) Remove and discard the packing [6] from the toilet bowl [5] outlet throat.

———— END OF TASK ————

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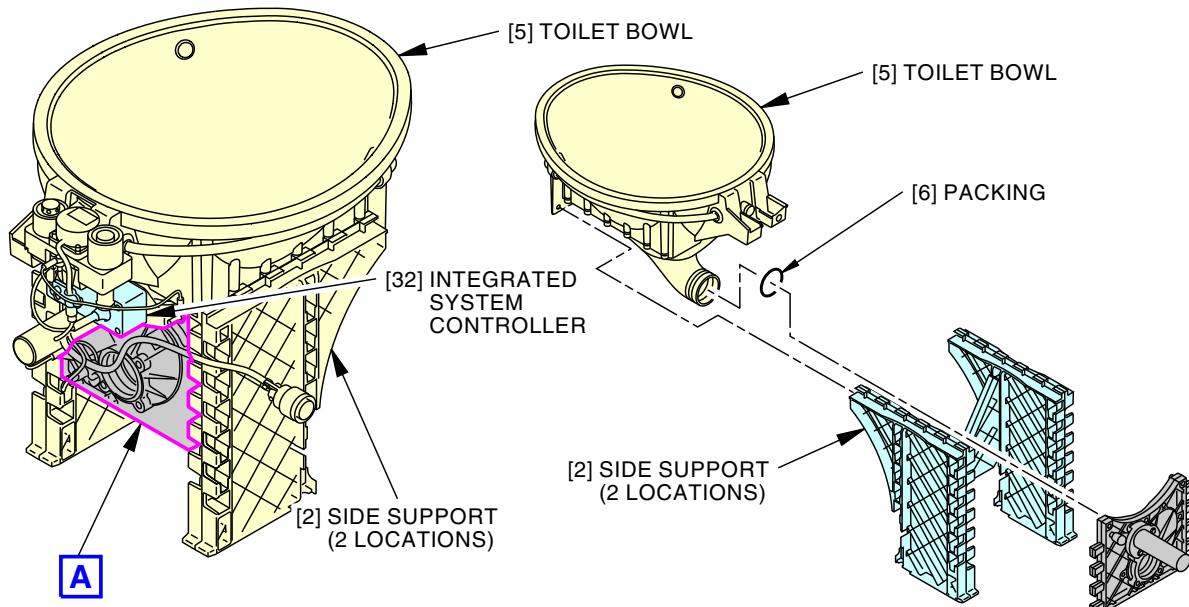
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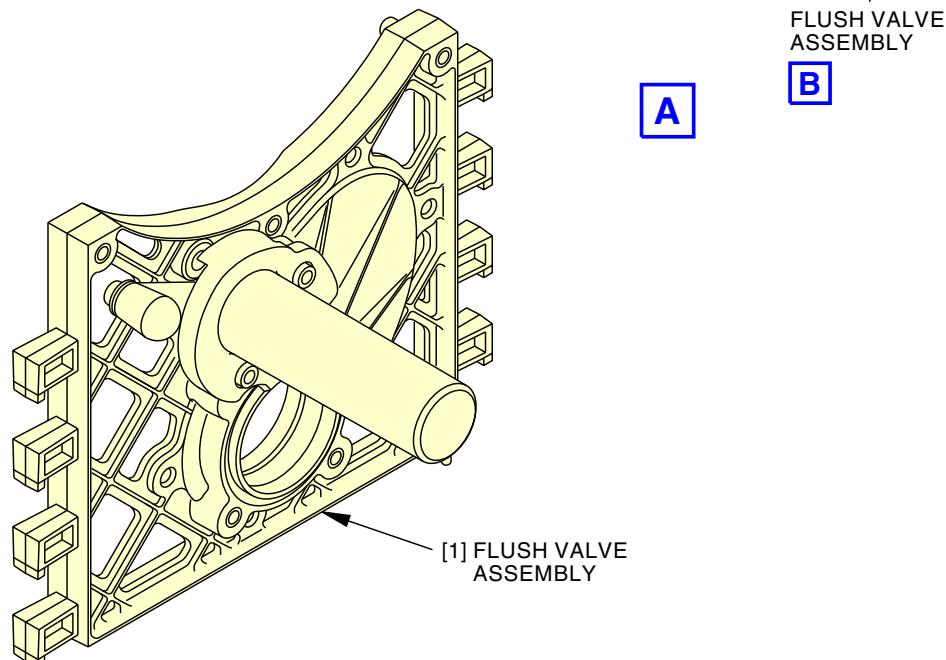
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VACUUM TOILET ASSEMBLY



FLUSH VALVE ASSEMBLY

B

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Toilet Flush Valve Installation
Figure 403/38-32-01-990-828-003

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TASK 38-32-01-400-845-003

8. Flush Valve Installation

(Figure 403)

A. **References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)

B. **Consumable Materials**

Reference	Description	Specification
D00189	Compound - Molykote 111 (Formerly Dow Corning 111, Valve Sealant and Lubricant)	

C. **Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Flush valve assembly	38-32-01-51P-280	LOM 465-999
6	Packing	38-32-01-51P-080	LOM 465-999

D. **Location Zones**

Zone	Area
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage

E. **Access Panels**

Number	Name/Location
117A	Electronic Equipment Access Door

F. **Flush Valve Installation**

SUBTASK 38-32-01-640-011-003

- (1) Apply Molykote 111 Compound, D00189, on the new packing [6].

SUBTASK 38-32-01-420-294-003

- (2) Put the new packing [6] to the toilet bowl [5] outlet throat.

SUBTASK 38-32-01-420-262-003



CAUTION

MAKE SURE TO USE THE CORRECT VERTICAL POSITION OF THE FLUSH VALVE ASSEMBLY ON THE SUPPORT STRUCTURE. THIS CORRECTLY ALIGNS THE TOILET-BOWL OUTLET WITH THE FLUSH VALVE INLET.

- (3) Face rear of toilet assembly towards you, position the flush valve assembly [1] at rear of the side supports [2], such that outlet is towards you.

SUBTASK 38-32-01-420-277-003

- (4) Insert tangs of the flush valve assembly [1] into retainer slots of the side supports [2] such that top of the flush valve assembly [1] will be level with the side supports [2] when in place.
(a) Slide the flush valve assembly [1] down to lock it into place to the side supports [2].

SUBTASK 38-32-01-420-297-003

- (5) Install the integrated system controller [32], do this task: Integrated System Controller (ISC) Installation, TASK 38-32-01-400-847-003.

SUBTASK 38-32-01-410-057-003

- (6) Do this task: Vacuum Toilet Assembly Installation, TASK 38-32-01-400-844-003.

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G. Flush Valve Installation Test

SUBTASK 38-32-01-400-003-003



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

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT

SUBTASK 38-32-01-410-074-003

- (2) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-32-01-860-093-003

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

SUBTASK 38-32-01-860-094-003

- (4) Set the water shutoff valve for the lavatory to the ON position (Figure 402).

- (a) Examine the flush valve assembly [1] and the connections for leakage.

SUBTASK 38-32-01-710-034-003

- (5) Flush the toilet a minimum of two times to make sure that it operates correctly.

- (a) If the toilet does not flush correctly, do the applicable task in Fault Isolation Manual (FIM) section 38-30 to correct the problem.

H. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-01-410-054-003

- (1) To install the toilet shroud, do this task: Toilet Shroud Installation, TASK 38-32-01-400-843-003.

———— END OF TASK ————

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TASK 38-32-01-000-846-003

9. Rinse Valve Removal

(Figure 404)

A. References

<u>Reference</u>	<u>Title</u>
38-32-00-910-801	Standard Practices for Work with the Toilet Waste and Equipment (P/B 201)

B. Location Zones

<u>Zone</u>	<u>Area</u>
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage

C. Access Panels

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

D. Prepare for the Removal

SUBTASK 38-32-01-010-191-003

- (1) Get access to the lavatory for the toilet removal.

SUBTASK 38-32-01-010-208-003

- (2) Open this access panel:

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

SUBTASK 38-32-01-040-054-003



WARNING

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WARNING

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT

SUBTASK 38-32-01-860-095-003

- (4) Set the water shutoff valve for the lavatory to the FAUCET ONLY or OFF position (Figure 402).

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SUBTASK 38-32-01-910-030-003

- (5) Do this task: Standard Practices for Work with the Toilet Waste and Equipment, TASK 38-32-00-910-801.

SUBTASK 38-32-01-010-192-003

- (6) To remove the toilet shroud, do this task: Toilet Shroud Removal, TASK 38-32-01-000-843-003.

SUBTASK 38-32-01-010-193-003

- (7) If it is necessary for better access, do this task: Vacuum Toilet Assembly Removal, TASK 38-32-01-000-844-003.

E. Rinse Valve Removal

SUBTASK 38-32-01-020-263-003

- (1) Remove rinse valve assembly [1], do these steps:

- (a) Disconnect the coupling [4], O-ring [5], and rinse line [3] from the rinse valve assembly (Figure 402).
 - 1) Discard the O-ring [5].
- (b) Remove the ground cable [3] from the rinse valve assembly [1].
 - 1) Remove the screw [2] and nut [5].
- (c) Remove the electrical connector [4].
- (d) Remove the rinse valve assembly [1] from the toilet bowl [12].
 - 1) Rotate the quarter-turn stud [6] 1/4 turn counter-clockwise.
 - 2) Slide the rinse valve assembly [1] off the rear of the toilet bowl [12].
 - 3) Discard the O-ring [11].

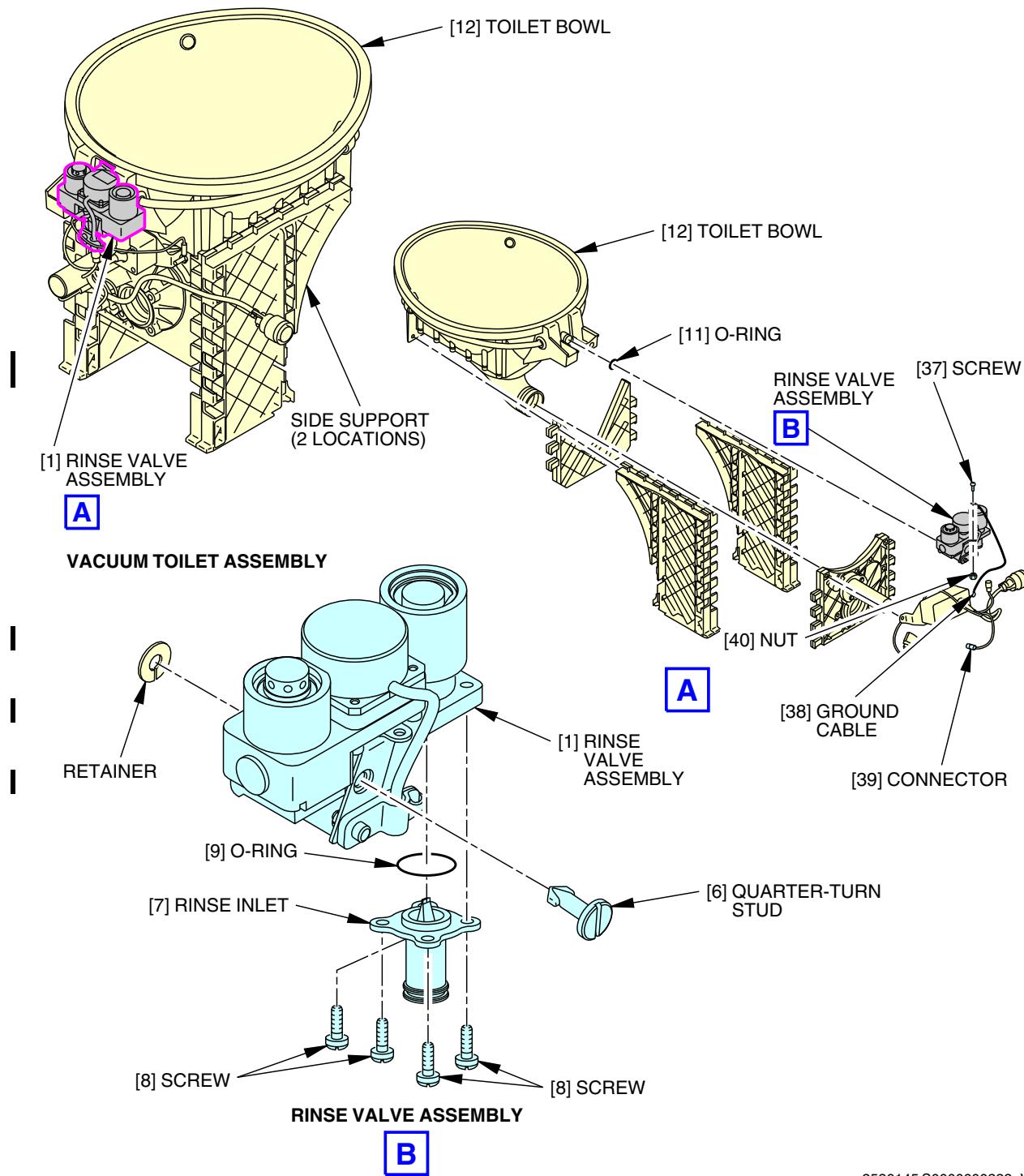
———— END OF TASK ————

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Toilet Rinse Valve Installation
Figure 404/38-32-01-990-827-003

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TASK 38-32-01-400-846-003

10. Rinse Valve Installation

(Figure 404)

A. 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-1550	Bonding Meter - Approved, Intrinsically Safe (Approved for use in Class I, Divisions I & II hazardous (classified) locations. Outside these hazardous locations, COM-614 can be used in lieu of COM-1550). Part #: 620LK Supplier: 1CRL2 Part #: M1 Supplier: 3AD17 Part #: M1B Supplier: 3AD17 Part #: T477W (C15292) Supplier: 06659

B. Consumable Materials

Reference	Description	Specification
D00189	Compound - Molykote 111 (Formerly Dow Corning 111, Valve Sealant and Lubricant)	
D00463	Grease - Food Processing Equipment	DOD-G-24650

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
5	O-ring	25-41-60-29C-055	LOM 465-999
11	O-ring	38-32-01-51P-045	LOM 465-999

D. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage

E. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

F. Rinse Valve Installation

SUBTASK 38-32-01-420-271-003

- (1) Position a new O-ring [11] on the toilet bowl [12].
 - (a) Lubricate the O-ring [11] with Molykote 111 Compound, D00189.

SUBTASK 38-32-01-420-272-003

- (2) Slide the rinse valve assembly [1] into position on the rear of the toilet bowl [12].

SUBTASK 38-32-01-420-273-003

- (3) Engage the quarter-turn stud [6] in the receptacle on the toilet bowl [12].
 - (a) Rotate the quarter-turn stud [6] 1/4 turn clockwise to lock the rinse valve assembly [1] into place.

SUBTASK 38-32-01-420-274-003

- (4) Attach the quick-release pig-tail connector [4] to the rinse valve assembly [1].

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SUBTASK 38-32-01-110-012-003

- (5) Attach the ground cable [3] to the rinse valve assembly [1].
 - (a) Insert the screw [2] and nut [5].
 - (b) Tighten the nut [5] to 19 ± 1 in-lb (2.1 ± 0.2 N·m).

SUBTASK 38-32-01-700-001-003

- (6) Measure the electrical bonding resistance between the fasteners on both ends of the ground cable [3].
 - (a) Use an intrinsically safe approved bonding meter, COM-1550.
 - (b) Make sure that the bonding resistance is 0.015 ohm (15 milliohms) or less.
 - (c) If the bonding resistance is more than 0.015 ohm (15 milliohms), do these steps:
 - 1) Remove the ground cable [3].
 - 2) Clean all connection points.
 - 3) Install the ground cable [3].
 - 4) Measure the electrical bonding resistance again.

SUBTASK 38-32-01-420-306-003

- (7) Put grease, D00463, or Molykote 111 Compound, D00189, on the new O-ring [5].

SUBTASK 38-32-01-420-275-003

- (8) Connect the rinse line [3] to the rinse valve assembly with the O-ring [5] and coupling [4] (Figure 402).

SUBTASK 38-32-01-420-276-003

- (9) If necessary, connect the electrical connector [2] for the rinse valve assembly to the flush control assembly (Figure 402).

SUBTASK 38-32-01-410-055-003

- (10) If you removed the vacuum toilet assembly for better access, do this task: Vacuum Toilet Assembly Installation, TASK 38-32-01-400-844-003.

G. Rinse Valve Installation Test

SUBTASK 38-32-01-440-001-003



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.

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(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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT

SUBTASK 38-32-01-410-083-003

- (2) Close this access panel:

Number Name/Location

117A	Electronic Equipment Access Door
------	----------------------------------

SUBTASK 38-32-01-860-097-003

- (3) Set the water shutoff valve for the lavatory to the ON position (Figure 402).

- (a) Examine the rinse valve assembly [1] and connections for leakage.

SUBTASK 38-32-01-710-035-003

- (4) Flush the toilet a minimum of two times to make sure that it operates correctly.

- (a) If the toilet does not flush correctly, do the applicable task in Fault Isolation Manual (FIM) section 38-30 to correct the problem.

H. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-01-410-056-003

- (1) To install the toilet shroud, do this task: Toilet Shroud Installation, TASK 38-32-01-400-843-003.

———— END OF TASK ————

TASK 38-32-01-000-847-003

11. Integrated System Controller (ISC) Removal

(Figure 405)

A. Location Zones

<u>Zone</u>	<u>Area</u>
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage

B. Access Panels

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

C. Prepare for the Removal

SUBTASK 38-32-01-010-194-003

- (1) Get access to the lavatory for the toilet removal.

EFFECTIVITY
LOM 465-999; AIRPLANES WITH BE AEROSPACE
TOILET

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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SUBTASK 38-32-01-010-207-003

- (2) Open this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-32-01-040-055-003



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.

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

Power Distribution Panel Number 1, P91

Row Col Number Name

C 11 C01388 VACUUM WASTE CONT

SUBTASK 38-32-01-860-098-003

- (4) Set the water shutoff valve for the lavatory to the FAUCET ONLY or OFF position (Figure 402).

SUBTASK 38-32-01-010-195-003

- (5) To remove the toilet shroud, do this task: Toilet Shroud Removal, TASK 38-32-01-000-843-003.

SUBTASK 38-32-01-010-206-003

- (6) If it is necessary for better access, do this task: Vacuum Toilet Assembly Removal, TASK 38-32-01-000-844-003.

D. Integrated System Controller Removal

SUBTASK 38-32-01-020-268-003

- (1) Cut and discard the cable ties [9].

SUBTASK 38-32-01-020-269-003



CAUTION

DO NOT REMOVE THE POTENTIOMETER. REMOVAL OF THE POTENTIOMETER WILL CHANGE THE POSITIONAL CALIBRATION AND DISABLE THE TOILET. FOR THE REMOVAL OF THE INTEGRATED SYSTEM CONTROLLER SIMPLY DISCONNECT THE CONNECTOR.

- (2) Disconnect the harness connector 1 from the flush valve assembly [6] (Figure 405).

SUBTASK 38-32-01-020-274-003

- (3) Disconnect the harness connector 2 from the rinse valve assembly [8].

SUBTASK 38-32-01-020-275-003

- (4) Disconnect the harness connector 3 from the potentiometer on the flush valve assembly [6].

EFFECTIVITY
LOM 465-999; AIRPLANES WITH BE AEROSPACE
TOILET

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SUBTASK 38-32-01-020-270-003

- (5) Remove the nut [2], washer [3], bonding jumper [13], washers [11], and grounding cable [4] from the toilet ground stud [14].

SUBTASK 38-32-01-020-271-003

- (6) While facing the rear of the toilet, remove the left-most screw [5].
 - (a) Loosen the lower screw [5] enough so that the integrated system controller [1] with the controller bracket [7] may be removed as an assembly from the flush valve assembly [6].
 - (b) Leave the lower screw [5] in position.

SUBTASK 38-32-01-020-272-003

- (7) Remove the screws [10] that attach the controller bracket [7] to the integrated system controller [1].
 - (a) Disconnect the integrated system controller [1] and controller bracket [7].
 - (b) Remove the screws as required to make the necessary repairs.

SUBTASK 38-32-01-020-273-003

- (8) Remove the integrated system controller [1].

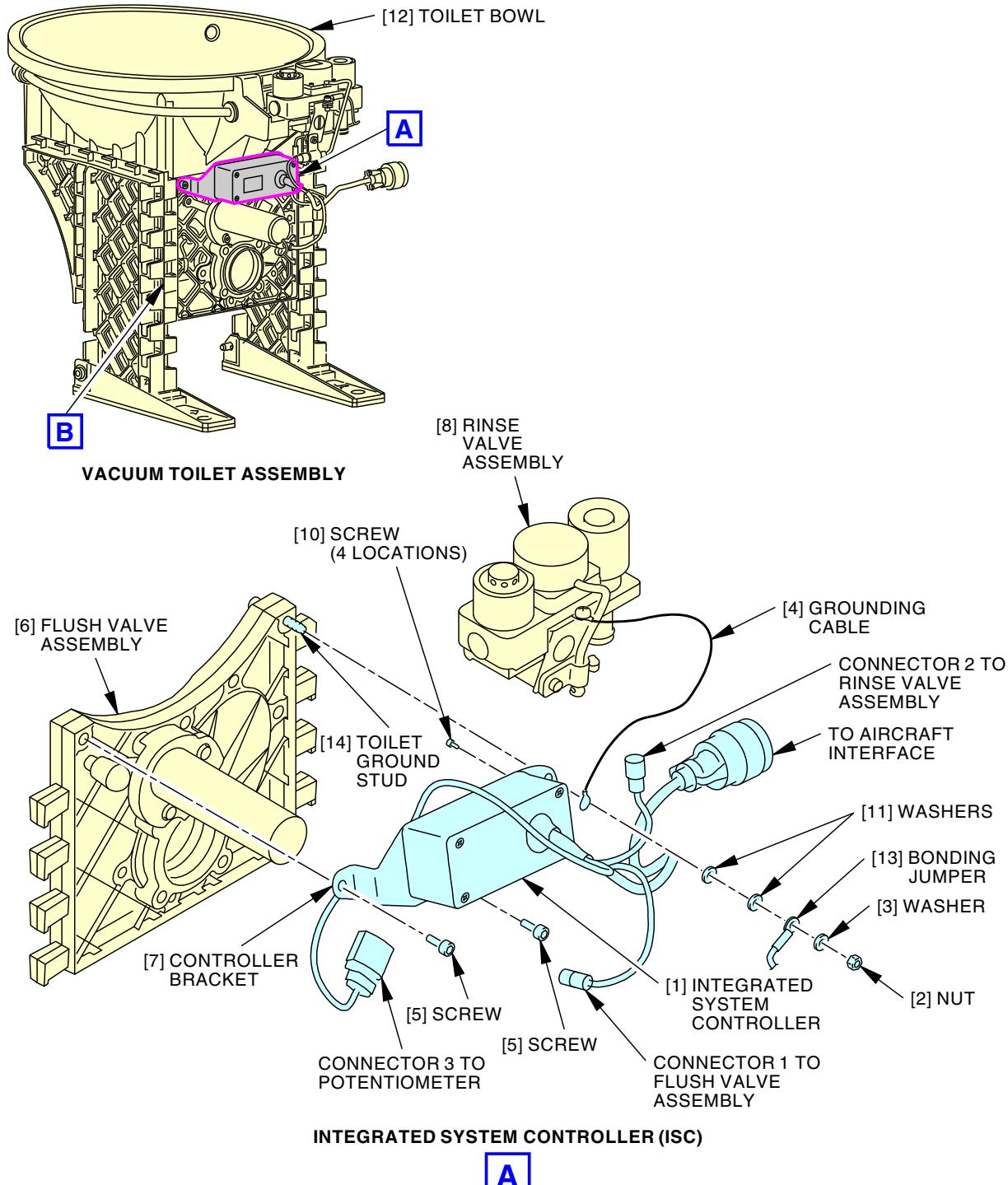
———— END OF TASK ————

EFFECTIVITY
LOM 465-999; AIRPLANES WITH BE AEROSPACE
TOILET

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2863935 S0000674744_V2

Integrated System Controller Installation
Figure 405/38-32-01-990-829-003 (Sheet 1 of 2)

EFFECTIVITY
LOM 465-999; AIRPLANES WITH BE AEROSPACE
TOILET

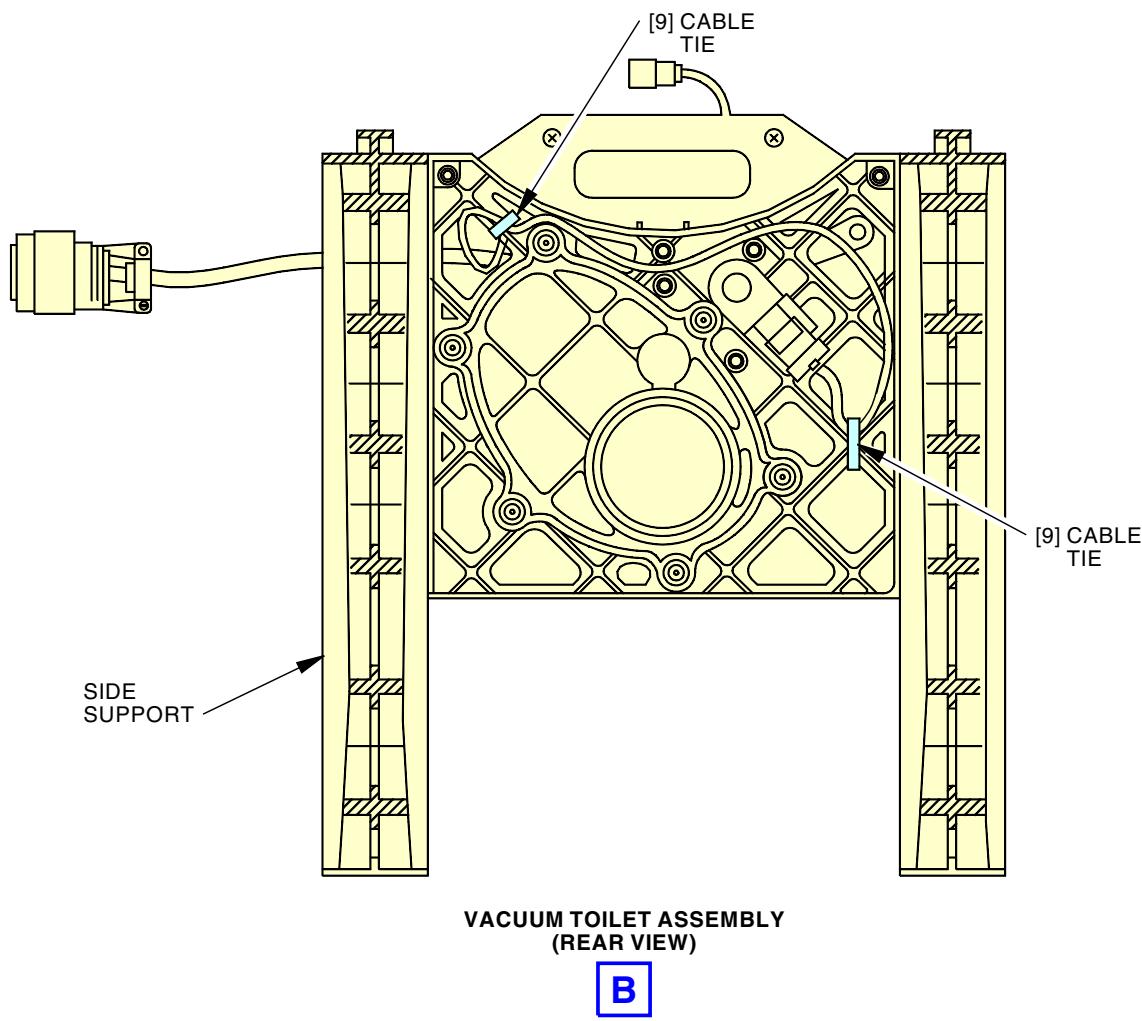
ECCN 9E991 BOEING PROPRIETARY - See title page for details

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NOTE:

HARNESS ATTACH POINTS, VIEWED INSIDE OF TOILET-STRUCTURE
SECURING ISC [1] WIRE HARNESS, TO PREVENT WIRE DAMAGE.

2863936 S0000674840_V2

Integrated System Controller Installation
Figure 405/38-32-01-990-829-003 (Sheet 2 of 2)

EFFECTIVITY
LOM 465-999; AIRPLANES WITH BE AEROSPACE
TOILET

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TASK 38-32-01-400-847-003

12. Integrated System Controller (ISC) Installation

(Figure 405)

A. References

Reference	Title
12-14-01-600-802	Potable Water Tank - Fill (P/B 301)
24-22-00-860-811	Supply Electrical Power (P/B 201)
38-42-00-800-802	Potable Water System - Activation (P/B 201)

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Integrated system controller	38-32-01-51P-255	LOM 465-999

C. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage

D. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

E. Integrated System Controller Installation

SUBTASK 38-32-01-420-279-003

- (1) Attach the controller bracket [7] to the integrated system controller [1] with the screws [10].

SUBTASK 38-32-01-420-280-003

- (2) Do these steps to install the controller bracket [7] with the attached integrated system controller [1] to the flush valve assembly [6].
- Install the controller bracket [7] with the attached integrated system controller [1] to the flush valve assembly [6] with the screws [5].
 - Do not tighten the screws [5] for now.

SUBTASK 38-32-01-420-282-003

- (3) Install one end of the grounding cable [4] over the exposed threads of the toilet ground stud [14], followed by the washers [11], bonding jumper [13], washer [3], and nut [2].
- Do not tighten the nut [2] for now.

SUBTASK 38-32-01-420-283-003

- (4) Tighten the attachment screws [5] and nut [2].
- Make sure that they are tightened equally.

SUBTASK 38-32-01-420-284-003

- (5) Connect the harness connector 1 to the flush valve assembly [6].

SUBTASK 38-32-01-420-289-003

- (6) Connect the harness connector 2 to the rinse valve assembly [8].

SUBTASK 38-32-01-420-290-003

- (7) Connect the harness connector 3 to the potentiometer on the flush valve assembly [6].

EFFECTIVITY
LOM 465-999; AIRPLANES WITH BE AEROSPACE
TOILET

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SUBTASK 38-32-01-420-285-003

- (8) Secure the wiring harness from the integrated system controller [1] to the flush valve assembly [6] with the new cable ties [9] (Figure 405).

F. Integrated System Controller Installation Test

SUBTASK 38-32-01-040-056-003



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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT

SUBTASK 38-32-01-410-085-003

- (2) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-32-01-860-099-003

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

SUBTASK 38-32-01-860-100-003

- (4) Set the water shutoff valve for the lavatory to the ON position.

SUBTASK 38-32-01-610-009-003

- (5) If the potable water tank is empty, do this task: Potable Water Tank - Fill, TASK 12-14-01-600-802.

SUBTASK 38-32-01-860-101-003

- (6) Do this task: Potable Water System - Activation, TASK 38-42-00-800-802.

SUBTASK 38-32-01-860-102-003

- (7) Flush the toilet a minimum of two times to make sure that it operates correctly.

G. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-01-410-071-003

- (1) If you removed the vacuum toilet assembly for better access, do this task: Vacuum Toilet Assembly Installation, TASK 38-32-01-400-844-003.

EFFECTIVITY
LOM 465-999; AIRPLANES WITH BE AEROSPACE
TOILET

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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SUBTASK 38-32-01-040-057-003

- (2) To install the toilet shroud, do this task: Toilet Shroud Installation, TASK 38-32-01-400-843-003.

———— END OF TASK ——

— EFFECTIVITY —
LOM 465-999; AIRPLANES WITH BE AEROSPACE
TOILET

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LIQUID SEPARATOR - MAINTENANCE PRACTICES

1. General

- A. This procedure has these tasks:
- (1) A removal of the liquid separator
 - (2) An installation of the liquid separator
 - (3) A cleaning of the liquid separator and liquid separator filter.

TASK 38-32-02-000-801

2. Liquid Separator Removal

(Figure 201)

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
12-17-01-610-801	Waste Tank Servicing (P/B 301)
25-52-20-000-801	Waste Tank Enclosure Panel - Removal (P/B 401)
38-32-00-910-801	Standard Practices for Work with the Toilet Waste and Equipment (P/B 201)

B. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
141	Aft Cargo Compartment - Left

C. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
822	Aft Cargo Door

D. Prepare for the Removal

SUBTASK 38-32-02-610-001

- (1) Do this task: Standard Practices for Work with the Toilet Waste and Equipment, TASK 38-32-00-910-801.

SUBTASK 38-32-02-610-002

- (2) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.

NOTE: Do not add the chemical precharge after you do the task to drain and flush the waste tanks.

SUBTASK 38-32-02-010-004

- (3) Open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

EFFECTIVITY
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SUBTASK 38-32-02-860-001



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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT
F	2	C01389	VACUUM WASTE BLOWER

SUBTASK 38-32-02-010-001

- (5) Open this access panel:

<u>Number</u>	<u>Name/Location</u>
822	Aft Cargo Door

SUBTASK 38-32-02-010-002

- (6) To remove the enclosure panels for the waste tanks, do this task: Waste Tank Enclosure Panel - Removal, TASK 25-52-20-000-801.

E. Liquid Separator Removal

SUBTASK 38-32-02-020-001



CAUTION

USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (1) Loosen the clamp [2] that attaches the flexible coupling [7] to the upper cap [1].

SUBTASK 38-32-02-020-002

- (2) Loosen the v-band coupling [6].

SUBTASK 38-32-02-020-003

- (3) Remove the upper cap [1] and packing [4].
(a) Discard the packing [4].

SUBTASK 38-32-02-020-004

- (4) Remove the lower filter basket [3] for the liquid separator from the waste tank.

SUBTASK 38-32-02-020-005

- (5) Remove the upper filter basket [5] for the liquid separator from the upper cap [1].

———— END OF TASK ————

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LOM ALL

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TASK 38-32-02-400-801

3. Liquid Separator Installation

(Figure 201)

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
12-17-01-610-801	Waste Tank Servicing (P/B 301)
24-22-00-860-811	Supply Electrical Power (P/B 201)
25-52-20-400-801	Waste Tank Enclosure Panel - Installation (P/B 401)

B. Consumable Materials

Reference	Description	Specification
D00189	Compound - Molykote 111 (Formerly Dow Corning 111, Valve Sealant and Lubricant)	
D00463	Grease - Food Processing Equipment	DOD-G-24650
D50007	Grease - Silicone-Based, Generic	

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
4	Packing	38-32-02-50-060	LOM ALL

D. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
141	Aft Cargo Compartment - Left

E. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
822	Aft Cargo Door

F. Liquid Separator Installation

SUBTASK 38-32-02-640-001



CAUTION

USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (1) Apply the grease, D00463, or silicone-based grease, D50007, or Molykote 111 Compound, D00189, to the packing [4].

SUBTASK 38-32-02-420-001

- (2) Install the lower filter basket [3] for the liquid separator in the waste tank.

SUBTASK 38-32-02-420-002

- (3) Install the upper filter basket [5] for the liquid separator in the upper cap [1].

SUBTASK 38-32-02-420-003

- (4) Install the upper cap [1] and packing [4].

SUBTASK 38-32-02-420-004

- (5) Install the v-band coupling [6].

- (a) Tighten the v-band coupling [6] to 90 in-lb (10 N·m) - 110 in-lb (12 N·m).

EFFECTIVITY
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SUBTASK 38-32-02-420-005

- (6) Attach the flexible coupling [7] and clamp [2] for the upper cap [1].

G. Liquid Separator Installation Test

SUBTASK 38-32-02-860-002



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.

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

Power Distribution Panel Number 1, P91

Row	Col	Number	Name
C	11	C01388	VACUUM WASTE CONT
F	2	C01389	VACUUM WASTE BLOWER

SUBTASK 38-32-02-410-002

- (2) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-32-02-860-003

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

SUBTASK 38-32-02-710-001

- (4) Flush a toilet connected to the waste tank.

SUBTASK 38-32-02-790-001

- (5) Examine the upper cap and connections for leakage.

H. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-02-610-003

- (1) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.

SUBTASK 38-32-02-010-003



WARNING

SEAL THE CARGO COMPARTMENT WITH THE LINING. OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN YOU INSTALL THE LINING. IF YOU INSTALL THE LINING INCORRECTLY, THE SMOKE CAN GET INTO THE PASSENGER COMPARTMENT DURING A FIRE.

- (2) Do this task: Waste Tank Enclosure Panel - Installation, TASK 25-52-20-400-801.

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SUBTASK 38-32-02-410-001

- (3) Close this access panel:

<u>Number</u>	<u>Name/Location</u>
822	Aft Cargo Door

———— END OF TASK ————

TASK 38-32-02-100-801

4. Liquid Separator and Liquid Separator Filter Cleaning

(Figure 201)

NOTE: This procedure is a scheduled maintenance task.

A. General

- (1) This task cleans the liquid separator filter canister.

B. Consumable Materials

Reference	Description	Specification
B00541	Cleaner - General Purpose Household Detergent	

C. Location Zones

Zone	Area
141	Aft Cargo Compartment - Left

D. Liquid Separator Cleaning

SUBTASK 38-32-02-020-006



USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (1) Do this task: Liquid Separator Removal, TASK 38-32-02-000-801.

SUBTASK 38-32-02-160-001

- (2) Mix the general purpose household detergent cleaner, B00541 with water in a container.

SUBTASK 38-32-02-160-002

- (3) Soak the two pieces of the liquid separator in the cleaner and water for a minimum of 15 minutes.

SUBTASK 38-32-02-170-001

- (4) Flush the liquid separator with clean water.

SUBTASK 38-32-02-210-001

- (5) Visually check the liquid separator and upper cap to see that they are clean.

- (a) Replace the upper basket [5] and lower basket [3] of the liquid separator if they are not clean.

E. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-02-420-006

- (1) Do this task: Liquid Separator Installation, TASK 38-32-02-400-801.

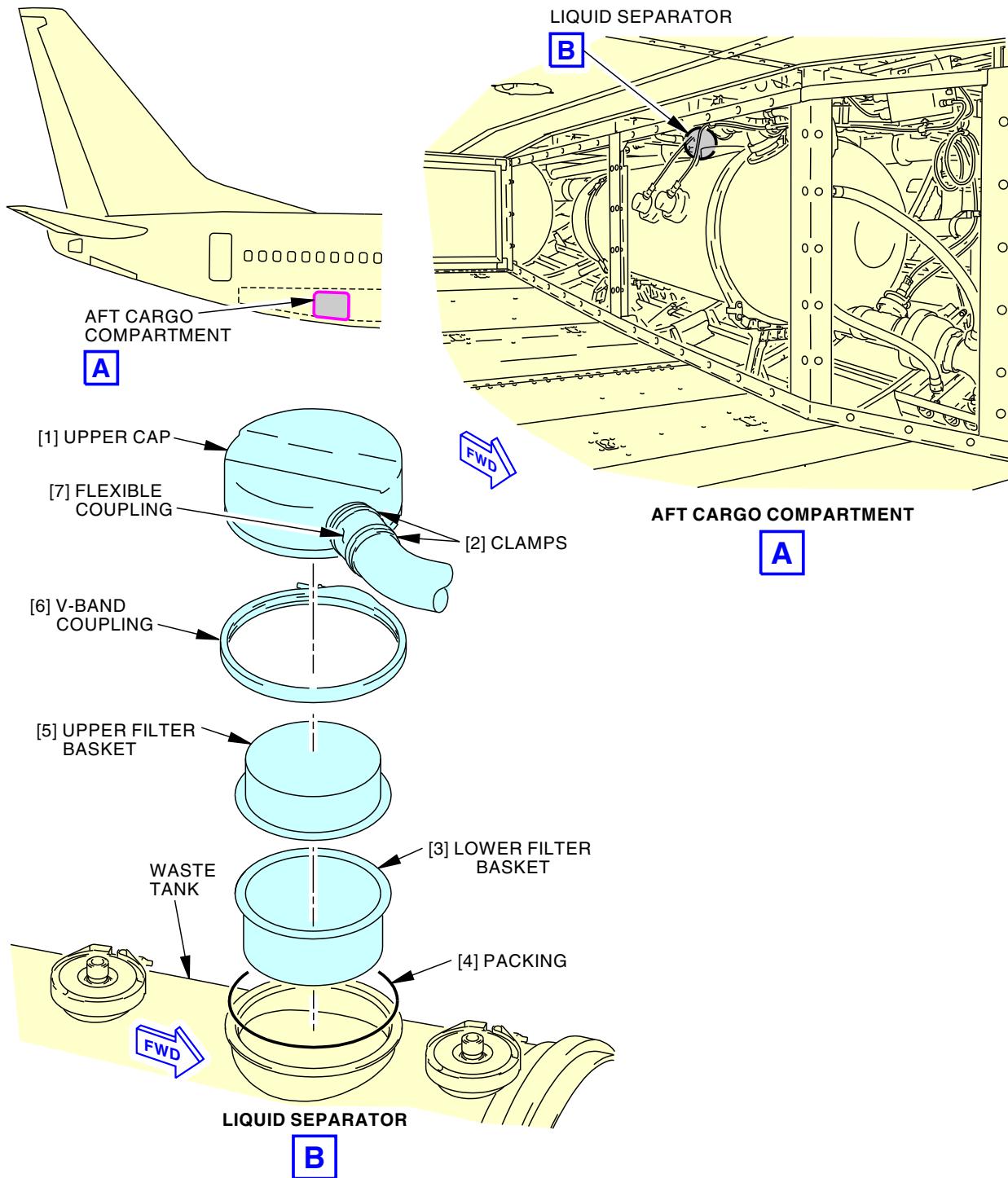
———— END OF TASK ————

— EFFECTIVITY —
LOM ALL

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Liquid Separator Maintenance Practices
Figure 201/38-32-02-990-801

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

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WASTE DRAIN BALL VALVE AND LINKAGE ASSEMBLY - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
 - (1) A removal of the waste drain ball valve
 - (2) An installation of the waste drain ball valve
 - (3) A removal of the linkage assembly for the waste drain ball valve
 - (4) An installation of the linkage assembly for the waste drain ball valve
 - (5) A removal of the limit switch for the waste drain ball valve
 - (6) An installation of the limit switch for the waste drain ball valve.
- B. The waste drain ball valve is referred to as the ball valve in this procedure.

TASK 38-32-03-000-801

2. Waste Drain Ball Valve Removal

(Figure 401 or Figure 402, Figure 403)

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
12-17-01-610-801	Waste Tank Servicing (P/B 301)
25-52-20-000-801	Waste Tank Enclosure Panel - Removal (P/B 401)
30-71-03-000-801	Waste Drain Line Heater Removal (P/B 401)

B. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
141	Aft Cargo Compartment - Left
143	Area Below Aft Cargo Compartment - Left

C. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
822	Aft Cargo Door

D. Prepare for the Removal

SUBTASK 38-32-03-860-015

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

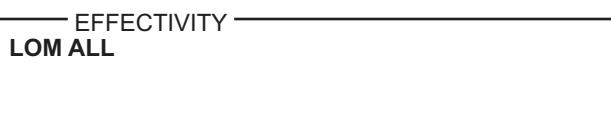
CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
E	5	C00233	HEATERS DRAIN

SUBTASK 38-32-03-610-001

- (2) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.

- (a) Do not add the chemical precharge after the task to service the waste tank is completed.



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SUBTASK 38-32-03-010-001

- (3) Open this access panel:

<u>Number</u>	<u>Name/Location</u>
822	Aft Cargo Door

SUBTASK 38-32-03-010-002

- (4) Do this task: Waste Tank Enclosure Panel - Removal, TASK 25-52-20-000-801.

SUBTASK 38-32-03-010-016

- (5) Open this access panel:

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

SUBTASK 38-32-03-860-001



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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT
F	2	C01389	VACUUM WASTE BLOWER

E. Ball Valve Removal

LOM 407, 411, 412, 415, 416

SUBTASK 38-32-03-010-003



CAUTION

USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (1) Loosen the clamps [43] or tape and remove the cover [42] from the drain valve.

LOM ALL

SUBTASK 38-32-03-010-015

- (2) Do this task: Waste Drain Line Heater Removal, TASK 30-71-03-000-801.

SUBTASK 38-32-03-020-001

- (3) Disconnect the electrical connector for the limit switch for the waste drain ball valve [11].

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SUBTASK 38-32-03-020-002

- (4) Remove the clamp [35], bolt [36], washer [37], and spacer [38] outboard of the ball valve attached to the limit switch cable.

SUBTASK 38-32-03-020-003

- (5) Remove the bolt [14], bushing [12], washer [17], and nut [16] to disconnect the control rod [15].

SUBTASK 38-32-03-020-004

- (6) Remove the clamshell [1], sleeve [2], and packings [3] attaching the waste drain ball valve [11] to the waste tube.

- (a) Discard the packings [3].

SUBTASK 38-32-03-020-005

- (7) Remove the V-band clamp [4] and V-band clamp [44] at the service panel and waste drain ball valve [11] connections for the drain elbow [18].

SUBTASK 38-32-03-020-006

- (8) Remove the waste drain ball valve [11] and drain elbow [18].

- (a) Make sure that the pin [19] remains in the drain elbow [18] for the subsequent installation of the waste drain ball valve [11].

- (b) Remove and discard the gask-O-seal [5] and gask-O-seal [45].

———— END OF TASK ————

TASK 38-32-03-400-801

3. Waste Drain Ball Valve Installation

(Figure 401 or Figure 402, Figure 403)

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
12-17-01-610-801	Waste Tank Servicing (P/B 301)
24-22-00-860-811	Supply Electrical Power (P/B 201)
25-52-20-400-801	Waste Tank Enclosure Panel - Installation (P/B 401)
30-71-03-400-801	Waste Drain Line Heater Installation (P/B 401)
38-32-03-710-801	Waste Drain Ball Valve and Control Rod - Operational Test (P/B 501)
38-32-03-820-801	Waste Drain Ball Valve and Control Rod - Adjustment (P/B 501)

B. Tools/Equipment

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

Reference	Description
SPL-9123	Sleeve Installation, Waste Tank Part #: C38003-1 Supplier: 81205
STD-1142	Equipment - Waste System Servicing

C. Consumable Materials

Reference	Description	Specification
D00016	Grease - Aircraft, General Purpose, Wide Temperature Range	MIL-PRF-81322

EFFECTIVITY
LOM ALL

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D. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
3	Packing	38-32-51-04-070	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420
		38-32-51-06-255	LOM 422-434, 437-447, 450-999
5	Gask-O-seal	38-32-51-04-170	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420
		38-32-51-06-230	LOM 422-434, 437-447, 450-999
11	Waste drain ball valve	38-32-51-04-082	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420
		38-32-51-06-090	LOM 422-434, 437-447, 450-999
45	Gask-O-seal	38-32-51-04-175	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420
		38-32-51-06-260	LOM 422-434, 437-447, 450-999

E. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
141	Aft Cargo Compartment - Left
143	Area Below Aft Cargo Compartment - Left

F. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
145AL	Waste Service Door
822	Aft Cargo Door

G. Ball Valve Installation

SUBTASK 38-32-03-640-001



USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (1) Apply a grease, D00016, to the new packings [3], new gask-O-seal [5], and new gask-O-seal [45].

SUBTASK 38-32-03-420-001

- (2) Install the gask-O-seal [5], gask-O-seal [45], and packings [3].

SUBTASK 38-32-03-420-018

- (3) Put the sleeve [2] on the flange of the waste tube.

SUBTASK 38-32-03-420-002

- (4) Put the waste drain ball valve [11] and drain elbow [18] into position.
 - (a) Align the hole in the waste drain ball valve [11] with the pin [19] on the flange.



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- 1) If the waste drain ball valve [11] has a pin installed, remove the pin from the waste drain ball valve [11].
- 2) Use the pin [19] on the flange for the installation.

SUBTASK 38-32-03-420-003

- (5) Install the V-band clamp [4] and V-band clamp [44] at the service panel and waste drain ball valve [11] connections for the drain elbow [18].

SUBTASK 38-32-03-420-004

- (6) Tighten the V-band clamp [4] and V-band clamp [44] to 60 in-lb (6.8 N·m) - 65 in-lb (7.3 N·m).

SUBTASK 38-32-03-420-005

- (7) Install the sleeve [2] and clamshell [1] to connect the waste tube.

- (a) Make sure that the ends between the waste tube flange and the waste drain ball valve [11] flange have a nominal clearance of 0.15 in. (3.81 mm) or minimum clearance of 0.10 in. (2.54 mm) apart.

NOTE: If a minimum clearance of 0.10 in. (2.54 mm) is not obtained damage to the waste tube flange or ball valve may occur. A maximum clearance is limited by the proper installation of the clamshell clamp. The clamp must not bind, or bend when installed. All of the clamp latches must close.

- (b) To install the sleeve [2] with the sleeve, SPL-9123, do the following steps:

NOTE: The sleeve, SPL-9123, is a P/N 14C02-56 clamp with one of the lips machined off to allow the clamp to be slipped on the sleeve while the clamp is closed.

NOTE: Use of the modified clamp tool, sleeve, SPL-9123, is optional.

- 1) Attach the sleeve, SPL-9123, to the sleeve [2] and lock.

NOTE: The inner seat of the sleeve, SPL-9123, tool must sit against the edge of the sleeve.

- 2) Carefully tap around the periphery of the tool until the sleeve [2] moves over the second o-ring.

NOTE: The sleeve and o-rings must not be damaged or deformed during this step. Damage or deformation shows that alignment or clearance are not correct.

- 3) Remove the sleeve, SPL-9123.

- 4) Install the clamshell [1].

- (c) To install the sleeve [2] without the sleeve, SPL-9123, do the following steps:

- 1) Obtain a wood or a plastic block to allow tapping on the edge of the sleeve [2].

- 2) Carefully tap around the periphery of the sleeve [2] until it moves over the second o-ring.

NOTE: The sleeve and o-rings must not be damaged or deformed during this step. Damage or deformation shows that alignment or clearance are not correct.

- 3) Install the clamshell [1].

SUBTASK 38-32-03-420-006

- (8) Install the bolt [14], bushing [12], washer [17], and nut [16] to connect the control rod [15].

SUBTASK 38-32-03-820-003

- (9) Adjust the control rod [15] (TASK 38-32-03-820-801).

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LOM ALL

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SUBTASK 38-32-03-420-007

- (10) Install the clamp [35], bolt [36], washer [37], and spacer [38] outboard of the ball valve for the limit switch cable.

SUBTASK 38-32-03-420-008

- (11) Connect the electrical connector for the limit switch of the waste drain ball valve [11].

H. Ball Valve Installation Test

SUBTASK 38-32-03-860-002



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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT
F	2	C01389	VACUUM WASTE BLOWER

SUBTASK 38-32-03-410-013

- (2) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-32-03-860-003

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

SUBTASK 38-32-03-760-001

- (4) Do this task: Waste Drain Ball Valve and Control Rod - Operational Test, TASK 38-32-03-710-801.

SUBTASK 38-32-03-790-001

- (5) Do a leak check of the waste drain ball valve [11], do these steps:

- (a) Open this access panel:

Number Name/Location

145AL Waste Service Door

- (b) At the service panel, make sure that the control handles for the drain ball valves are in the closed position.
 - (c) Make sure that the cap for the waste drain fitting outlet is closed.
 - (d) Connect the water hose from the waste system servicing equipment, STD-1142, to the rinse fitting of the service panel.

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LOM ALL

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- (e) Use the pump on the service cart to put about 50 gal (189 l) of water into the waste tank.
- (f) Open the cap and inner door (use the PUSH-TO-OPEN lever) of the service panel drain valve assembly.
- (g) Make sure that the waste drain ball valve [11] does not have a leak.
NOTE: You must wait for not less than 30 minutes after you put the water in the tanks before you do this step.
- (h) Close the drain cap.

I. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-03-410-011

- (1) Do this task: Waste Drain Line Heater Installation, TASK 30-71-03-400-801.

LOM 407, 411, 412, 415, 416

SUBTASK 38-32-03-410-009

- (2) Position and snap the cover [42] into place over the waste drain ball valve [11].
 - (a) Route the wires from the heater blanket beneath the cover [42] to exit at aft end of the waste drain ball valve [11].
 - (b) Make sure that the protective sleeve covers the wires a minimum of 14 in. (356 mm) from start at the heater blanket.

SUBTASK 38-32-03-410-010

- (3) Install the clamps [43] or tape on the cover [42].
 - (a) Make sure that the cover does not extend beyond clamp on side of valve or interfere with the linkage assembly.

LOM ALL

SUBTASK 38-32-03-860-004

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

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
E	5	C00233	HEATERS DRAIN

SUBTASK 38-32-03-710-001

- (5) Make sure that the heater blanket is serviceable.

SUBTASK 38-32-03-610-002

- (6) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.

SUBTASK 38-32-03-410-012



WARNING

SEAL THE CARGO COMPARTMENT WITH THE LINING. OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN YOU INSTALL THE LINING. IF YOU INSTALL THE LINING INCORRECTLY, THE SMOKE CAN GET INTO THE PASSENGER COMPARTMENT DURING A FIRE.

- (7) Do this task: Waste Tank Enclosure Panel - Installation, TASK 25-52-20-400-801.

SUBTASK 38-32-03-410-001

- (8) Close these access panels:

<u>Number</u>	<u>Name/Location</u>
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145AL	Waste Service Door
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(Continued)

<u>Number</u>	<u>Name/Location</u>
822	Aft Cargo Door

— END OF TASK —

TASK 38-32-03-000-802

4. Linkage Assembly for the Waste Drain Ball Valve Removal

(Figure 401 or Figure 402)

A. General

- (1) The linkage assembly has two sub-assemblies, the control rod [15] with the handle [10] and the uniball assembly [9].

B. References

<u>Reference</u>	<u>Title</u>
25-52-20-000-801	Waste Tank Enclosure Panel - Removal (P/B 401)

C. Location Zones

<u>Zone</u>	<u>Area</u>
117	Electrical and Electronics Compartment - Left
141	Aft Cargo Compartment - Left
143	Area Below Aft Cargo Compartment - Left
822	Aft Cargo Door

D. Access Panels

<u>Number</u>	<u>Name/Location</u>
117A	Electronic Equipment Access Door
145AL	Waste Service Door
822	Aft Cargo Door

E. Prepare for the Removal

SUBTASK 38-32-03-010-006



USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (1) Open this access panel:

<u>Number</u>	<u>Name/Location</u>
822	Aft Cargo Door

SUBTASK 38-32-03-010-007

- (2) Do this task: Waste Tank Enclosure Panel - Removal, TASK 25-52-20-000-801.

SUBTASK 38-32-03-010-008

- (3) Open this access panel:

<u>Number</u>	<u>Name/Location</u>
145AL	Waste Service Door

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SUBTASK 38-32-03-010-017

- (4) Open this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-32-03-860-005



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) Open these circuit breakers and install safety tags:

Power Distribution Panel Number 1, P91

Row	Col	Number	Name
C	11	C01388	VACUUM WASTE CONT
F	2	C01389	VACUUM WASTE BLOWER

F. Linkage Assembly Removal

SUBTASK 38-32-03-020-007

- (1) Remove the screw [8] and washer [7] at the service panel to disconnect the uniball assembly [9].

SUBTASK 38-32-03-020-008

- (2) Remove the nut [16], washer [17], bushing [12], and bolt [14] to disconnect the control rod [15] from the waste drain ball valve [11].

SUBTASK 38-32-03-020-009

- (3) Remove the linkage assembly and uniball assembly [9].

SUBTASK 38-32-03-020-010

- (4) Disconnect the control rod [15] end from the handle [10] to remove the uniball assembly [9].

———— END OF TASK ————

TASK 38-32-03-400-802

5. Linkage Assembly for the Waste Drain Ball Valve Installation

(Figure 401 or Figure 402)

A. General

- (1) The linkage assembly has two sub-assemblies, the control rod [15] with the handle [10] and the uniball assembly [9].

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B. References

Reference	Title
12-17-01-610-801	Waste Tank Servicing (P/B 301)
24-22-00-860-811	Supply Electrical Power (P/B 201)
25-52-20-400-801	Waste Tank Enclosure Panel - Installation (P/B 401)
38-32-03-710-801	Waste Drain Ball Valve and Control Rod - Operational Test (P/B 501)
38-32-03-820-801	Waste Drain Ball Valve and Control Rod - Adjustment (P/B 501)

C. Consumable Materials

Reference	Description	Specification
A00247	Sealant - Pressure And Environmental - Chromate Type	BMS5-95
D00062	Lubricant - Pneumatic System	SAE AMS-G-4343 (NATO G-392)

D. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
9	Uniball assembly	38-32-51-10-065	LOM ALL
10	Handle	38-32-51-04-195	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420
		38-32-51-06-280	LOM 422-434, 437-447, 450-999
15	Control rod	38-32-51-04-235	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420
		38-32-51-06-320	LOM 422-434, 437-447, 450-999

E. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
141	Aft Cargo Compartment - Left
143	Area Below Aft Cargo Compartment - Left

F. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
145AL	Waste Service Door
822	Aft Cargo Door

G. Linkage Assembly Installation

SUBTASK 38-32-03-640-002

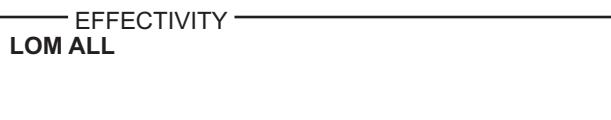


USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (1) Apply a lubricant, D00062, to the internal portion of the uniball assembly [9].

SUBTASK 38-32-03-420-009

- (2) Put the linkage assembly in its position in the uniball assembly [9].



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SUBTASK 38-32-03-640-003

- (3) Apply a fay surface seal with sealant, A00247, to the uniball assembly [9] and the service panel.

SUBTASK 38-32-03-420-010

- (4) Put the uniball assembly [9] in its position.

SUBTASK 38-32-03-420-011

- (5) Install the screws [8] and washers [7] to connect the uniball assembly [9] to the service panel.

SUBTASK 38-32-03-420-012

- (6) Install the bolt [14], bushing [12], washer [17], and nut [16] to connect the control rod [15] to the waste drain ball valve [11].

SUBTASK 38-32-03-820-001

- (7) Do this task: Waste Drain Ball Valve and Control Rod - Adjustment, TASK 38-32-03-820-801.

H. Linkage Assembly Installation Test

SUBTASK 38-32-03-860-006



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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT
F	2	C01389	VACUUM WASTE BLOWER

SUBTASK 38-32-03-410-014

- (2) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-32-03-860-007

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

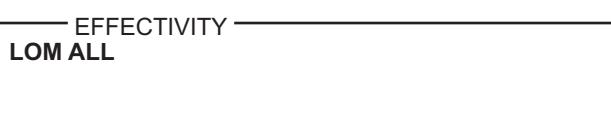
SUBTASK 38-32-03-760-002

- (4) Do this task: Waste Drain Ball Valve and Control Rod - Operational Test, TASK 38-32-03-710-801.

I. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-03-610-003

- (1) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.



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SUBTASK 38-32-03-410-002



WARNING

SEAL THE CARGO COMPARTMENT WITH THE LINING. OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN YOU INSTALL THE LINING. IF YOU INSTALL THE LINING INCORRECTLY, THE SMOKE CAN GET INTO THE PASSENGER COMPARTMENT DURING A FIRE.

- (2) Do this task: Waste Tank Enclosure Panel - Installation, TASK 25-52-20-400-801.

SUBTASK 38-32-03-410-003

- (3) Close this access panel:

Number Name/Location

822 Aft Cargo Door

SUBTASK 38-32-03-410-004

- (4) Close this access panel:

Number Name/Location

145AL Waste Service Door

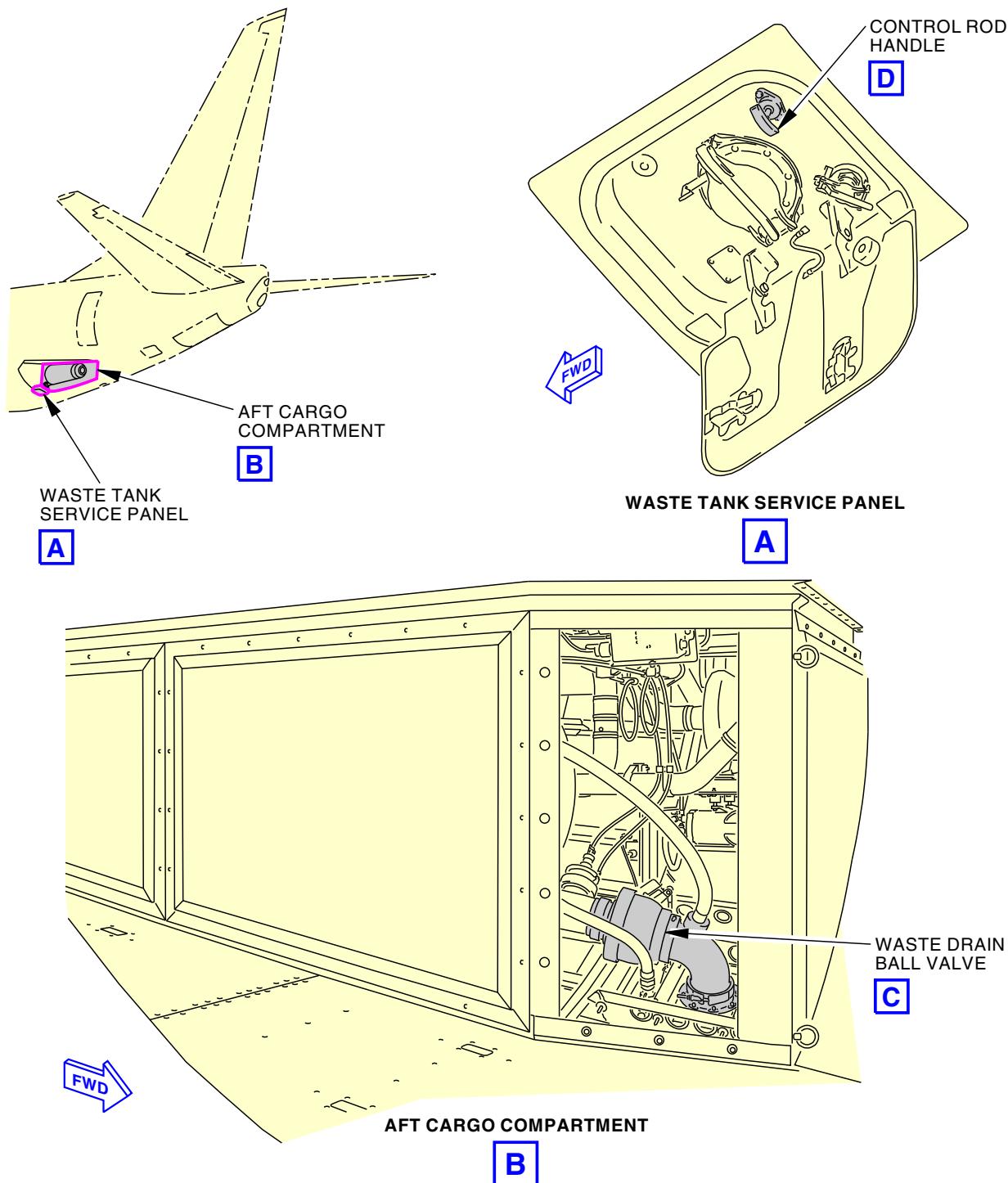
———— END OF TASK ————

EFFECTIVITY
LOM ALL

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AIRCRAFT MAINTENANCE MANUAL



G15510 S0006578665_V2

Waste Drain Ball Valve Installation
Figure 401/38-32-03-990-801 (Sheet 1 of 2)

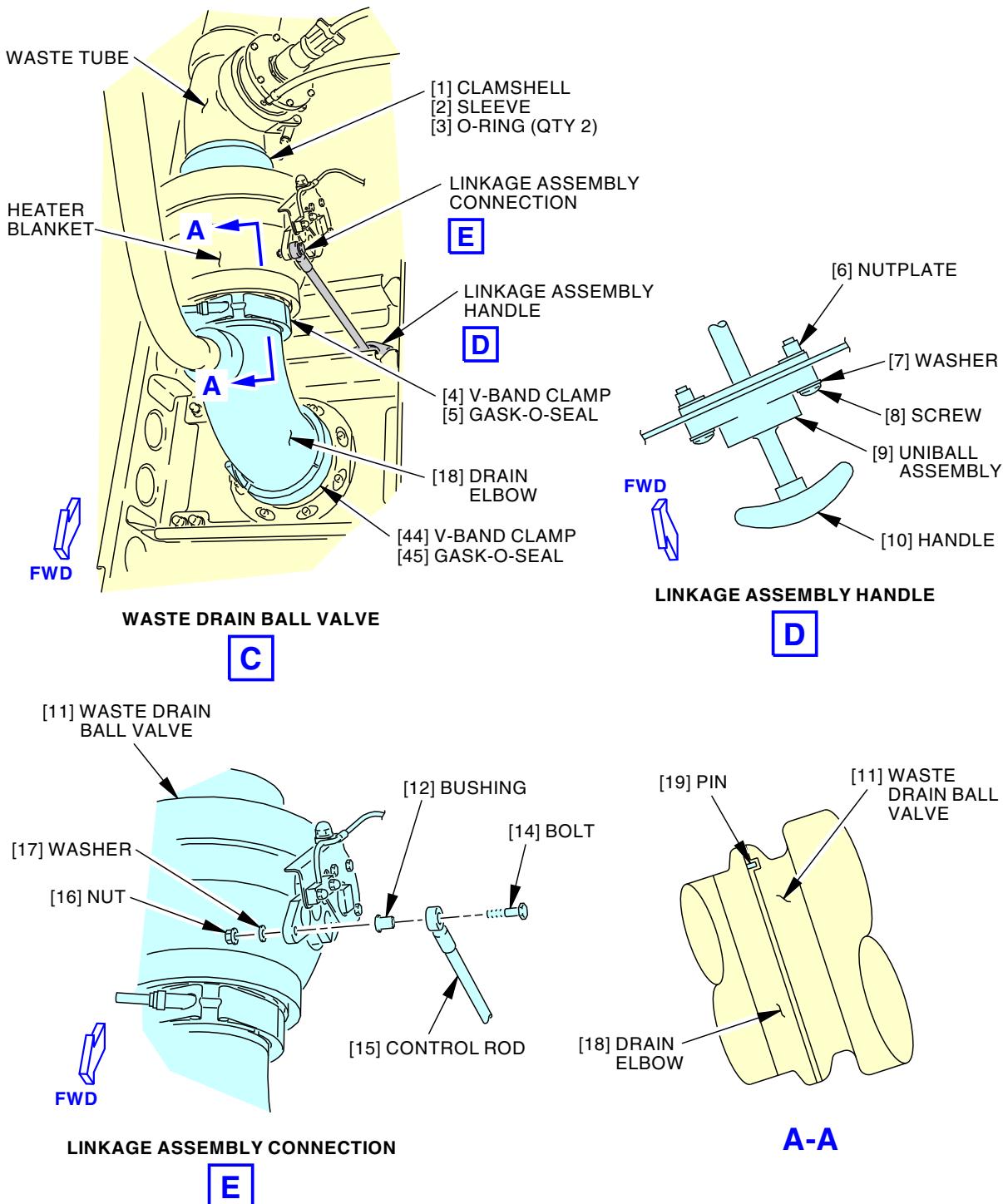
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LOM 402, 404, 406, 420, 422-434, 437-447, 450-999

38-32-03

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F80954 S0006578668_V6

Waste Drain Ball Valve Installation
Figure 401/38-32-03-990-801 (Sheet 2 of 2)

EFFECTIVITY
LOM 402, 404, 406, 420, 422-434, 437-447, 450-999

38-32-03

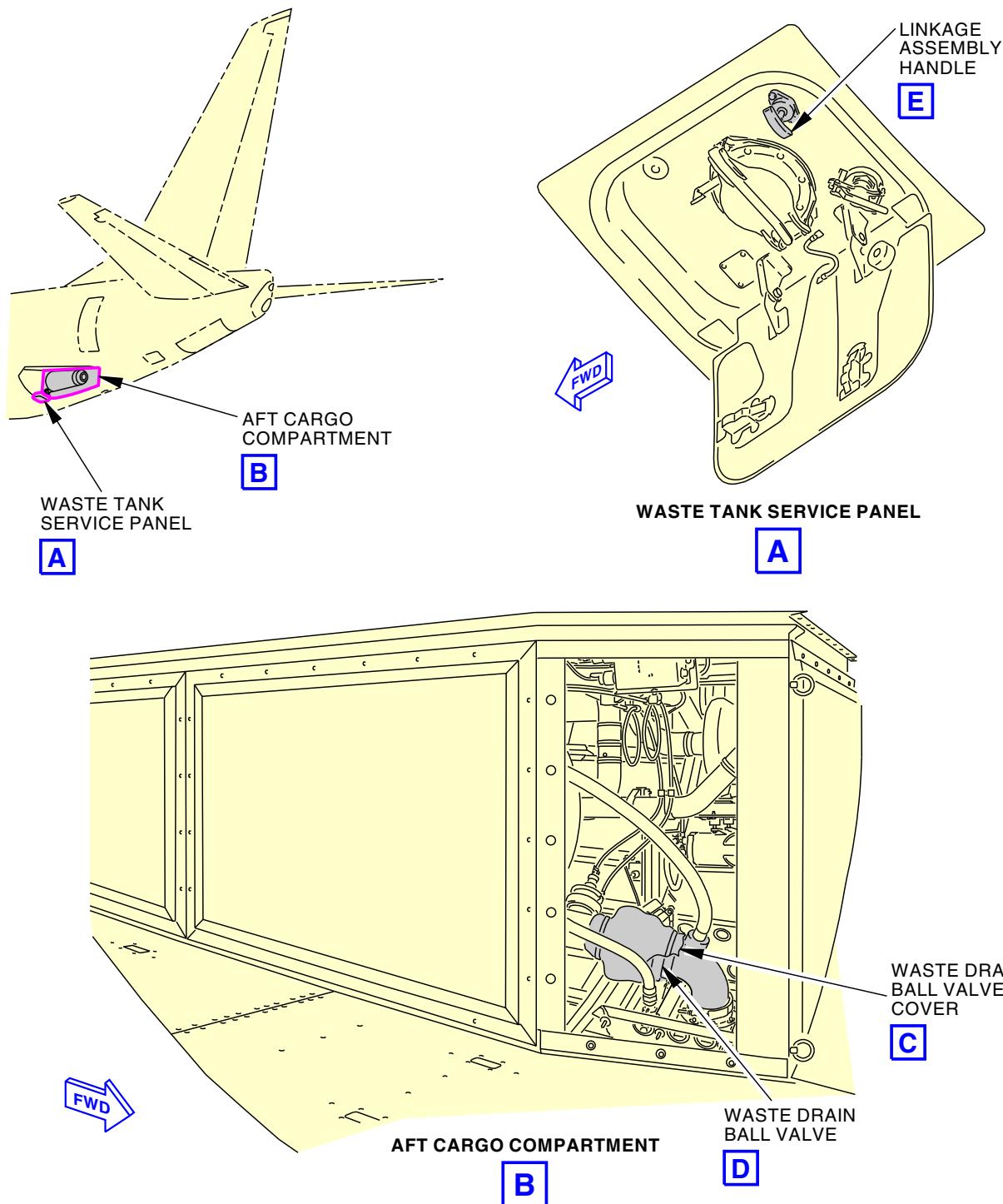
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AIRCRAFT MAINTENANCE MANUAL



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Waste Drain Ball Valve Installation
Figure 402/38-32-03-990-804 (Sheet 1 of 3)

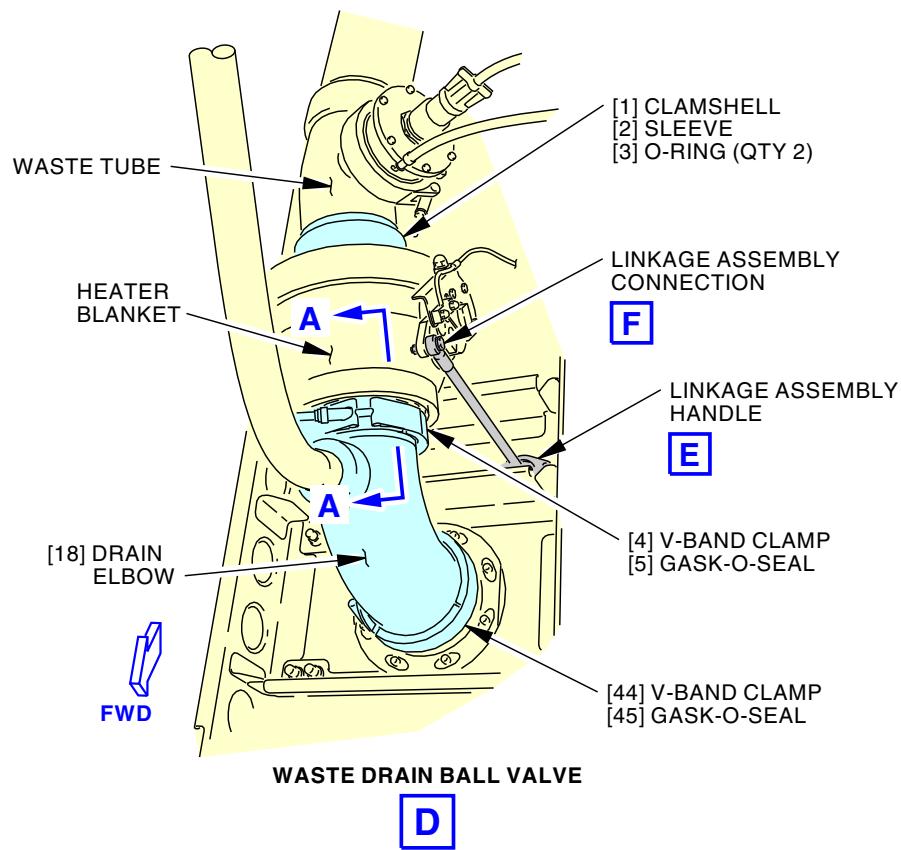
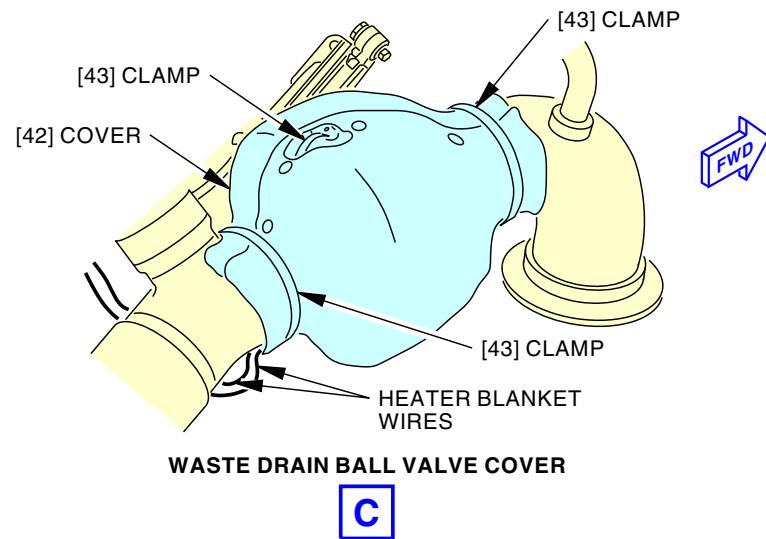
EFFECTIVITY
LOM 407, 411, 412, 415, 416

38-32-03

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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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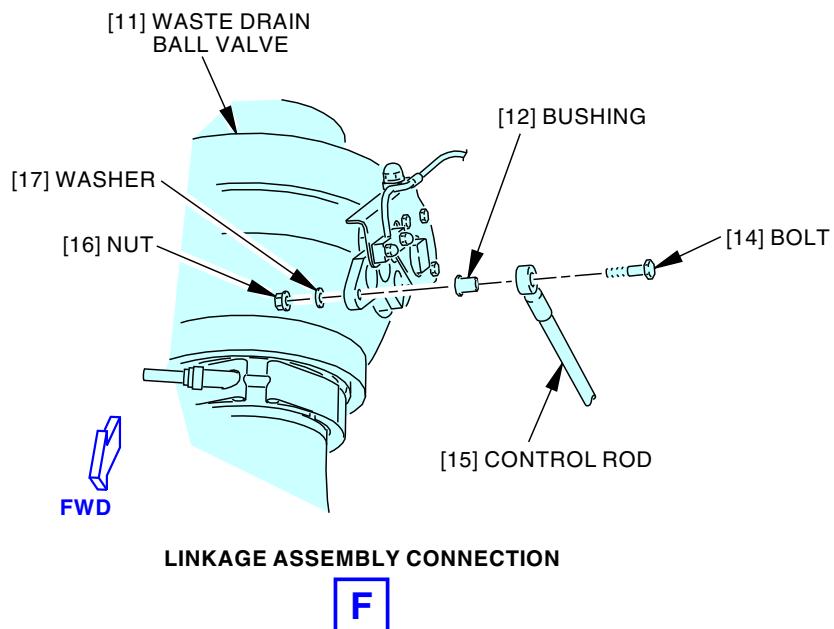
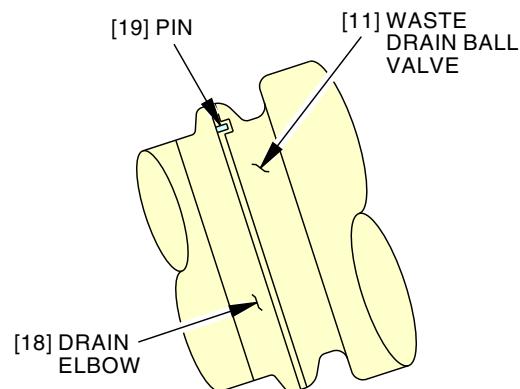
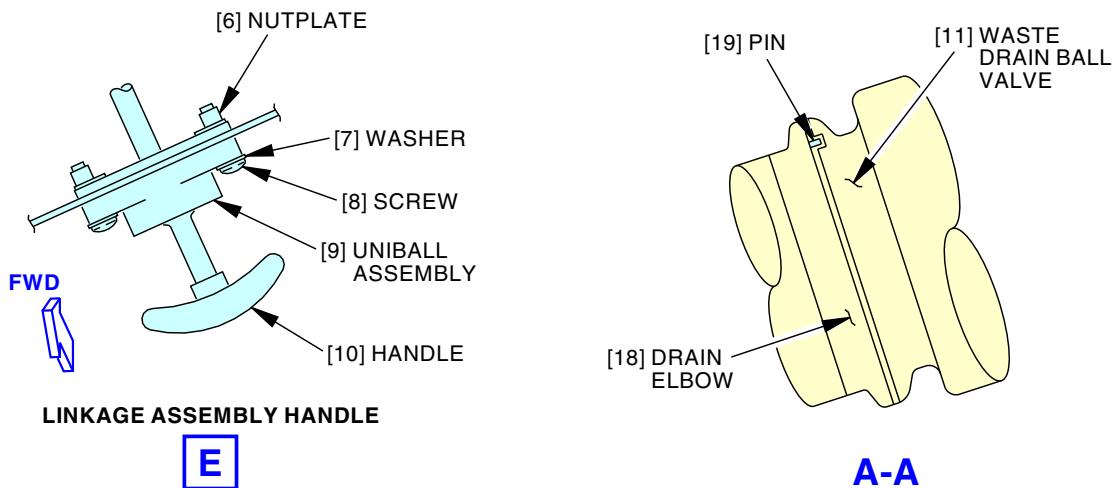
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1381870 S0000251723_V5

Waste Drain Ball Valve Installation
Figure 402/38-32-03-990-804 (Sheet 2 of 3)

EFFECTIVITY
LOM 407, 411, 412, 415, 416

38-32-03



1382133 S0000251724_V4

Waste Drain Ball Valve Installation
Figure 402/38-32-03-990-804 (Sheet 3 of 3)

EFFECTIVITY
LOM 407, 411, 412, 415, 416

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TASK 38-32-03-000-803

6. Waste Drain Ball Valve Limit Switch Removal

(Figure 403)

A. References

Reference	Title
25-52-20-000-801	Waste Tank Enclosure Panel - Removal (P/B 401)

B. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
141	Aft Cargo Compartment - Left
143	Area Below Aft Cargo Compartment - Left

C. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
822	Aft Cargo Door

D. Prepare for the Removal

SUBTASK 38-32-03-010-009

- (1) Open this access panel:

Number	Name/Location
822	Aft Cargo Door

SUBTASK 38-32-03-010-010



USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (2) Do this task: Waste Tank Enclosure Panel - Removal, TASK 25-52-20-000-801.

SUBTASK 38-32-03-010-018

- (3) Open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 38-32-03-860-008



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.

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(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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT
F	2	C01389	VACUUM WASTE BLOWER

E. Limit Switch Removal

SUBTASK 38-32-03-020-011

- (1) Disconnect the electrical connector D11716 for the limit switch of the ball valve.
(a) Install the protective cover on the electrical connector.

SUBTASK 38-32-03-020-015

- (2) Remove the cover plate [48] as follows:
(a) Remove the lockwire from the screws [46].
(b) Remove the screws [46] and washers [47] that attach the cover plate [48] to the waste drain ball valve.

SUBTASK 38-32-03-020-012

- (3) Remove screw [32], washer [33], and nut [34] to disconnect the clamp [31] from the cover plate [48].

SUBTASK 38-32-03-020-013

- (4) Remove the clamp [35], bolt [36], washer [37], and spacer [38] from the cable for the limit switch.

SUBTASK 38-32-03-020-014

- (5) Remove the screws [39] and nuts [40] to disconnect the sensor [41].

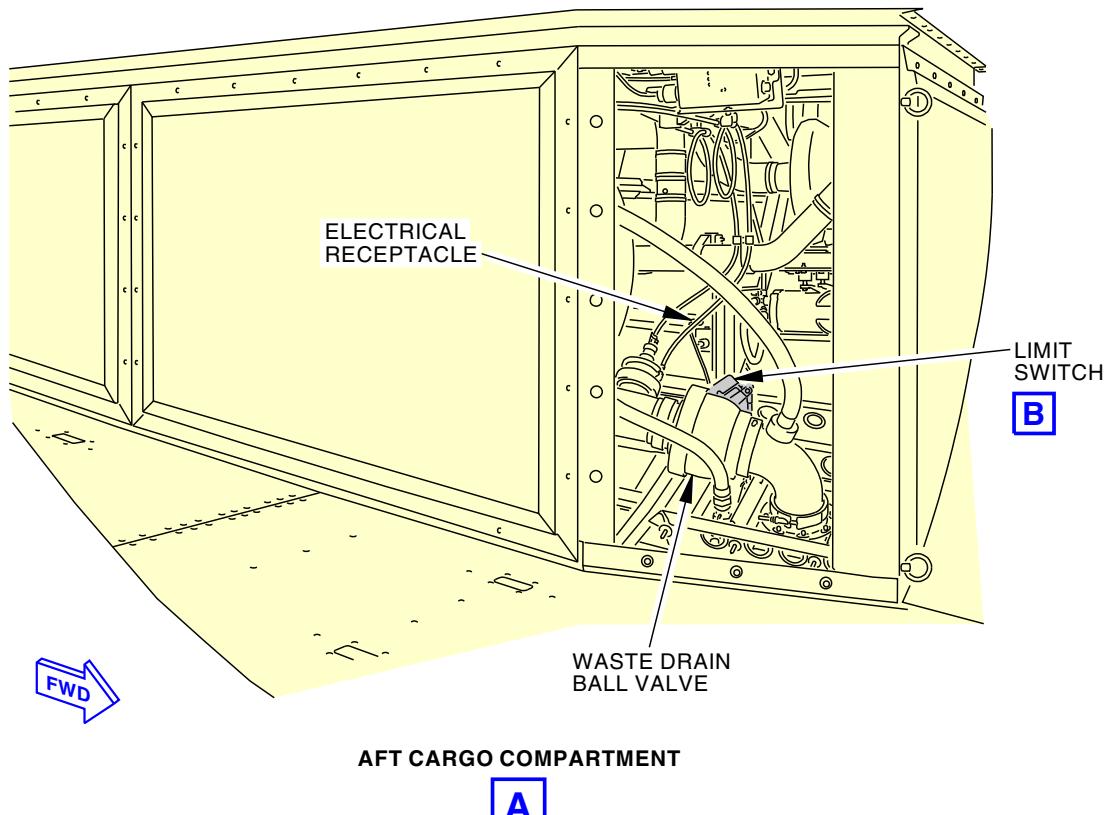
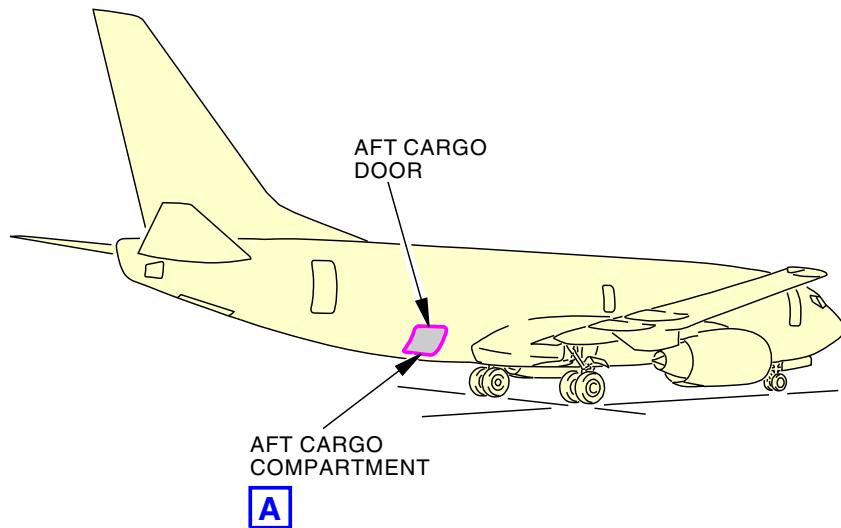
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EFFECTIVITY
LOM ALL

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Limit Switch Installation
Figure 403/38-32-03-990-802 (Sheet 1 of 2)

EFFECTIVITY
LOM ALL

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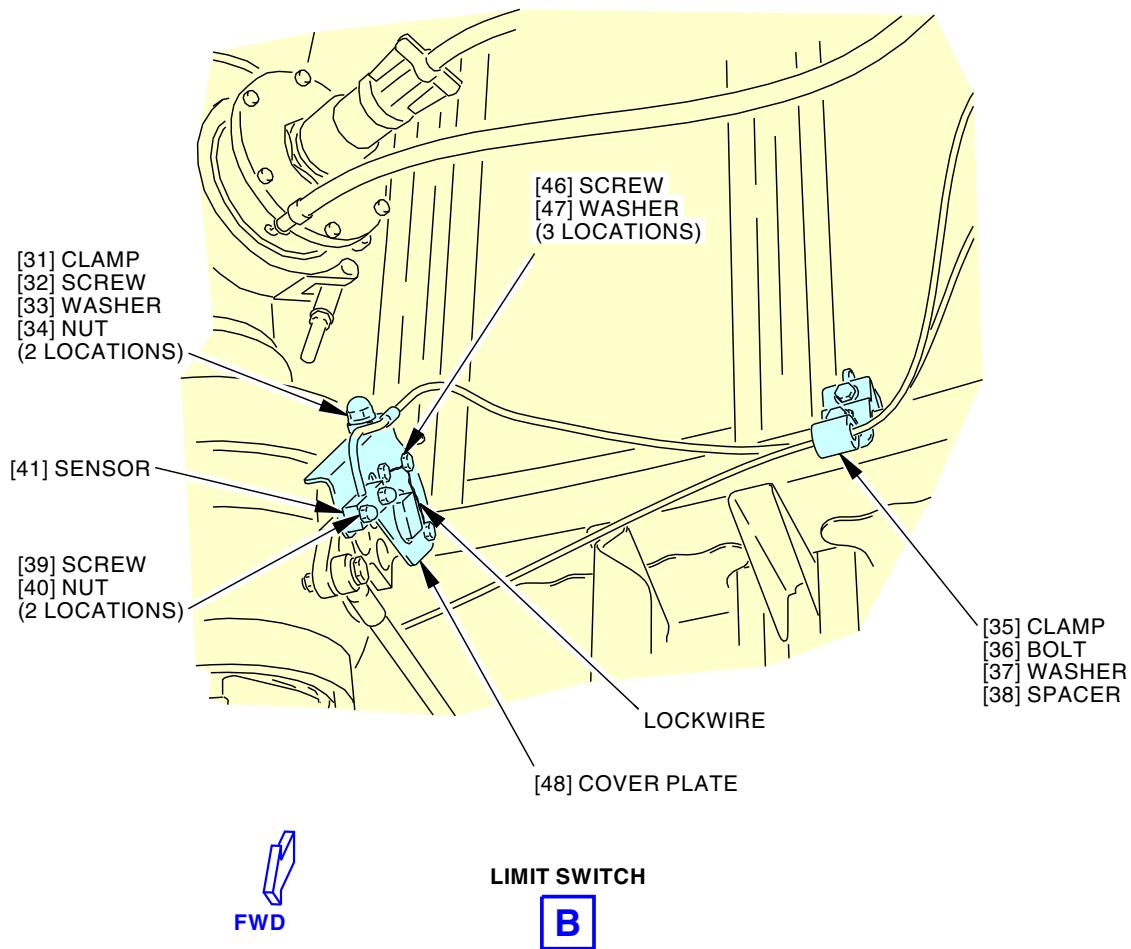
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F81038 S0006578671_V3

Limit Switch Installation
Figure 403/38-32-03-990-802 (Sheet 2 of 2)

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TASK 38-32-03-400-803

7. Waste Drain Ball Valve Limit Switch Installation

(Figure 403)

A. References

Reference	Title
12-17-01-610-801	Waste Tank Servicing (P/B 301)
24-22-00-860-811	Supply Electrical Power (P/B 201)
25-52-20-400-801	Waste Tank Enclosure Panel - Installation (P/B 401)
38-32-03-710-801	Waste Drain Ball Valve and Control Rod - Operational Test (P/B 501)

B. Consumable Materials

Reference	Description	Specification
A00648	Compound - Retaining - Loctite 242	ASTM D5363 Grp 3 Cl 2 Gd 1 (SUPERSEDES MIL-S-46163)
G01048	Lockwire - MS20995C32, Corrosion Resistant Steel - 0.032 Inch (0.8128 mm) Diameter	NASM20995

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
41	Sensor	38-32-51-04-090	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420
		38-32-51-06-110	LOM 422-434, 437-447, 450-999

D. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
141	Aft Cargo Compartment - Left
143	Area Below Aft Cargo Compartment - Left
822	Aft Cargo Door

E. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
822	Aft Cargo Door

F. Limit Switch Valve Installation

SUBTASK 38-32-03-420-021

- (1) Apply Loctite 242 compound, A00648, to the threads of the screw [32] and screws [39].

SUBTASK 38-32-03-420-013



CAUTION

USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (2) Put the sensor [41] in its position.

NOTE: See the waste drain ball valve manufacturer's instructions for further information on the sensor.

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SUBTASK 38-32-03-420-014

- (3) Install screws [39] and nuts [40] that attach the sensor [41] to the cover plate [48].

SUBTASK 38-32-03-420-015

- (4) Install the clamp [31], screw [32], washer [33], and nut [34] to attach the sensor wire to the cover plate [48].

SUBTASK 38-32-03-420-016

- (5) Install the clamp [35], bolt [36], washer [37], and spacer [38].

SUBTASK 38-32-03-420-019

- (6) Install the screws [46] and washers [47] to attach the cover plate [48] to the waste drain ball valve.

SUBTASK 38-32-03-420-017

- (7) Connect the electrical connector D11716 for the limit switch.

G. Limit Switch Installation Test

SUBTASK 38-32-03-860-009



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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT
F	2	C01389	VACUUM WASTE BLOWER

SUBTASK 38-32-03-410-015

- (2) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-32-03-860-010

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

SUBTASK 38-32-03-760-003

- (4) Do this task: Waste Drain Ball Valve and Control Rod - Operational Test, TASK 38-32-03-710-801.

H. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-03-420-020

- (1) Install MS20995C32 lockwire, G01048, on the screws [46].

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SUBTASK 38-32-03-610-004

- (2) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.

SUBTASK 38-32-03-010-011



WARNING

SEAL THE CARGO COMPARTMENT WITH THE LINING. OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN YOU INSTALL THE LINING. IF YOU INSTALL THE LINING INCORRECTLY, THE SMOKE CAN GET INTO THE PASSENGER COMPARTMENT DURING A FIRE.

- (3) Do this task: Waste Tank Enclosure Panel - Installation, TASK 25-52-20-400-801.

SUBTASK 38-32-03-410-005

- (4) Close this access panel:

Number Name/Location
822 Aft Cargo Door

———— END OF TASK ————

— EFFECTIVITY —
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WASTE DRAIN BALL-VALVE AND CONTROL ROD - ADJUSTMENT/TEST

1. General

- A. This procedure has these tasks:
 - (1) An operational test of the waste drain ball valve and control rod
 - (2) An adjustment of the control rod for the waste drain ball valve.
- B. The waste drain ball valve is referred to as the ball valve in this procedure.

TASK 38-32-03-710-801

2. Waste Drain Ball Valve and Control Rod - Operational Test

A. General

- (1) This task does these tests at the same time:
 - (a) An operational test to measure the necessary force to use the control rod for the ball valve.
 - (b) An operational test to make sure that the switch on the ball valve operates correctly.

B. References

Reference	Title
12-17-01-610-801	Waste Tank Servicing (P/B 301)
38-32-00-910-801	Standard Practices for Work with the Toilet Waste and Equipment (P/B 201)

C. Tools/Equipment

Reference	Description
STD-1142	Equipment - Waste System Servicing
STD-1184	Scale - Spring, 0-100 Lbs, Tension

D. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
141	Aft Cargo Compartment - Left
822	Aft Cargo Door

E. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
145AL	Waste Service Door

F. Prepare for the Test

SUBTASK 38-32-03-910-001

- (1) Do this task: Standard Practices for Work with the Toilet Waste and Equipment, TASK 38-32-00-910-801.

SUBTASK 38-32-03-010-012

- (2) At the waste service panel, do these steps:

- (a) Open this access panel:

Number	Name/Location
145AL	Waste Service Door

- (b) Open the cap on the waste drain valve assembly.

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- (c) Connect the waste drain hose from the toilet service waste system servicing equipment, STD-1142, to the waste drain valve assembly.
- (d) Push the PUSH-TO-OPEN lever on the waste drain valve assembly.

SUBTASK 38-32-03-010-023

- (3) To get access to the P91 panel, open this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-32-03-860-011



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.

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

Power Distribution Panel Number 1, P91

Row	Col	Number	Name
C	11	C01388	VACUUM WASTE CONT
F	2	C01389	VACUUM WASTE BLOWER

G. Operational Test

SUBTASK 38-32-03-480-001

- (1) Connect the spring scale (0-100 Lbs), STD-1184, to the control handle for the ball valve.

SUBTASK 38-32-03-710-002

- (2) Do a test of the force that is necessary to open the ball valve as follows:

- (a) Pull down on the spring scale (0-100 Lbs), STD-1184, until the ball valve is fully open.
- (b) At the same time, read the maximum force on the spring scale (0-100 Lbs), STD-1184.
- (c) Make sure that the maximum force on the spring scale (0-100 Lbs), STD-1184, is less than 50 lbf (222 N).
- (d) Disconnect the spring scale (0-100 Lbs), STD-1184, from the control handle for the ball valve.
- (e) Push on the control handle for the ball valve until the ball valve is closed.

SUBTASK 38-32-03-710-003

- (3) Make sure that the switch on the ball valve operates correctly as follows:

- (a) Pull down on the control handle until the ball valve is fully open.
- (b) Push the flush switch for a toilet.
- (c) Make sure that the vacuum blower does not operate.

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- (d) Push on the control handle for the ball valve until the ball valve is closed.
- (e) Make sure that this access panel closes freely and does not touch the control handle:

<u>Number</u>	<u>Name/Location</u>
145AL	Waste Service Door

 - 1) If the access panel touches the control handle, do this task: Waste Drain Ball Valve and Control Rod - Adjustment, TASK 38-32-03-820-801.
- (f) Push the flush switch for a toilet.
- (g) Make sure that the vacuum blower does operate.
 - 1) If the vacuum blower does not operate, do this task: Waste Drain Ball Valve and Control Rod - Adjustment, TASK 38-32-03-820-801.
- (h) If the vacuum blower operates, continue.

H. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-03-610-005

- (1) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.

SUBTASK 38-32-03-410-006

- (2) Close these access panels:

<u>Number</u>	<u>Name/Location</u>
117A	Electronic Equipment Access Door
145AL	Waste Service Door

———— END OF TASK ————

TASK 38-32-03-820-801

3. Waste Drain Ball Valve and Control Rod - Adjustment

(Figure 501)

A. General

- (1) Use this procedure to do the adjustment of the control rod on the ball valve.

NOTE: When the ball valve is open, the limit switch stops the operation of the toilets.

B. References

Reference	Title
12-17-01-610-801	Waste Tank Servicing (P/B 301)
25-52-20-000-801	Waste Tank Enclosure Panel - Removal (P/B 401)
25-52-20-400-801	Waste Tank Enclosure Panel - Installation (P/B 401)

C. Consumable Materials

Reference	Description	Specification
A50086	Primer - Loctite 7471 Primer T Activator	
A50129	Primer - Loctite 7649	ASTM D5363
A50211	Compound - Threadlocking, High-Strength - Loctite 277	MIL-S-46163
A50319	Compound - Loctite 262 High Strength Red Threadlocker	
A50413	Primer - Activator	MIL-S-46163 Grade F



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D. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
141	Aft Cargo Compartment - Left
822	Aft Cargo Door

E. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
145AL	Waste Service Door
822	Aft Cargo Door

F. Prepare for the Adjustment

SUBTASK 38-32-03-610-006

- (1) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.
 - (a) Do not add the chemical precharge after the task to drain and flush the waste tanks is completed.

SUBTASK 38-32-03-010-013

- (2) Open this access panel:

Number	Name/Location
822	Aft Cargo Door

SUBTASK 38-32-03-010-014

- (3) Do this task: Waste Tank Enclosure Panel - Removal, TASK 25-52-20-000-801.

SUBTASK 38-32-03-010-022

- (4) To get access to the P91 panel, open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 38-32-03-860-013



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

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

Power Distribution Panel Number 1, P91

Row	Col	Number	Name
C	11	C01388	VACUUM WASTE CONT

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(Continued)

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	2	C01389	VACUUM WASTE BLOWER

G. Ball Valve and Control Rod Adjustment

SUBTASK 38-32-03-820-002

- (1) Do the control rod adjustment as follows:

- (a) Make sure that the ball valve is fully closed.
 - (b) Make sure that this access panel is closed:

Number Name/Location

145AL Waste Service Door

- (c) Adjust the length of the control rod.
 - 1) Loosen the jam nut to turn the control rod in the rod end.
 - 2) Remove the loose particle of solid Loctite 277 compound, A50211, or Loctite 262 compound, A50319, from the thread of the control rod end.
 - 3) Rotate the control rod in an extended length direction until the control handle touches the waste service door.
 - 4) Rotate the control rod back three full turns from the waste service door.
 - a) Engage the more three threads.
 - (d) Make sure that the threads of the control rod can be seen in the witness hole of the rod end.
 - (e) Tighten the jam nut for the rod end as follows:
 - 1) Apply primer, A50413, or Loctite 7649 Primer, A50129, or Loctite 7471 Primer T Activator, A50086, to the thread at the rod end of the control rod.
 - 2) Apply Loctite 277 compound, A50211, or Loctite 262 compound, A50319, to the thread at the rod end of the control rod.
 - 3) Tighten the jam nut to 100 in-lb (11.3 N·m) - 130 in-lb (14.7 N·m).

SUBTASK 38-32-03-760-004

- (2) Do this task: Waste Drain Ball Valve and Control Rod - Operational Test, TASK 38-32-03-710-801.

H. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-03-610-007

- (1) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.

SUBTASK 38-32-03-410-007



SEAL THE CARGO COMPARTMENT WITH THE LINING. OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN YOU INSTALL THE LINING. IF YOU INSTALL THE LINING INCORRECTLY, THE SMOKE CAN GET INTO THE PASSENGER COMPARTMENT DURING A FIRE.

- (2) Do this task: Waste Tank Enclosure Panel - Installation, TASK 25-52-20-400-801.

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SUBTASK 38-32-03-410-008

- (3) Close these access panels:

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

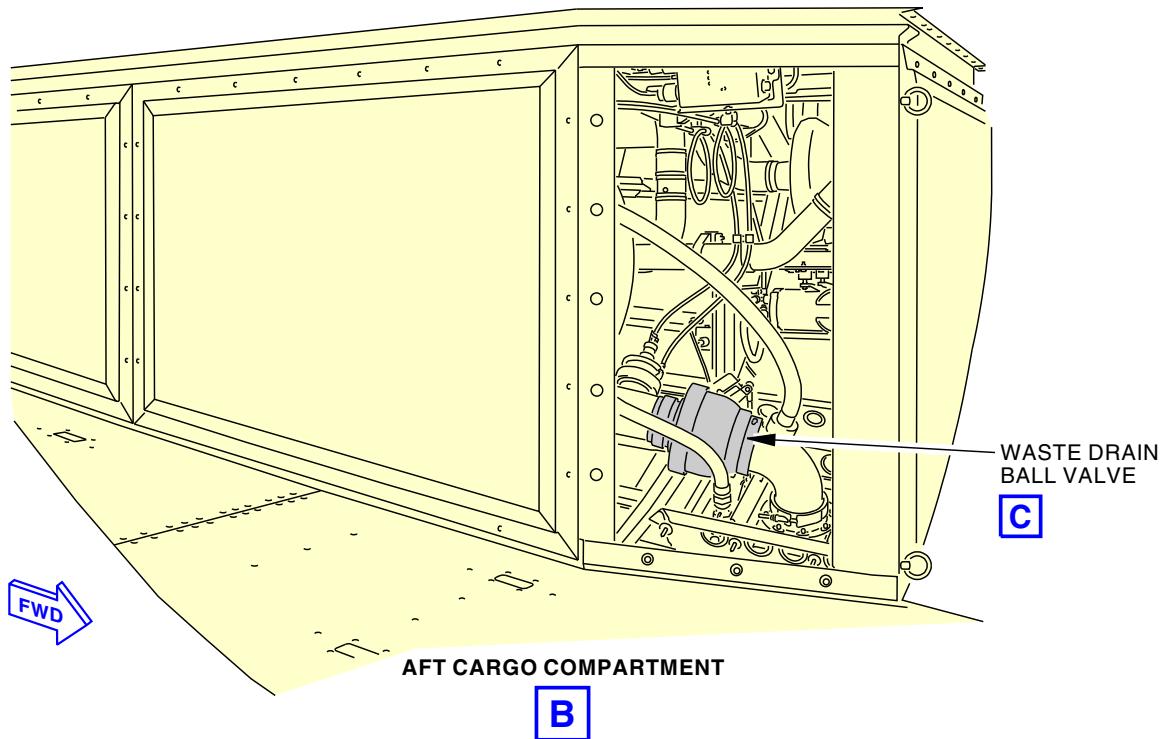
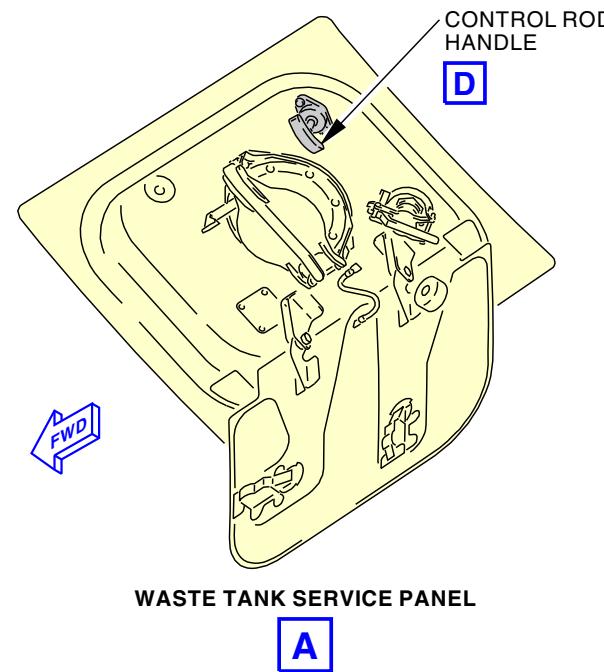
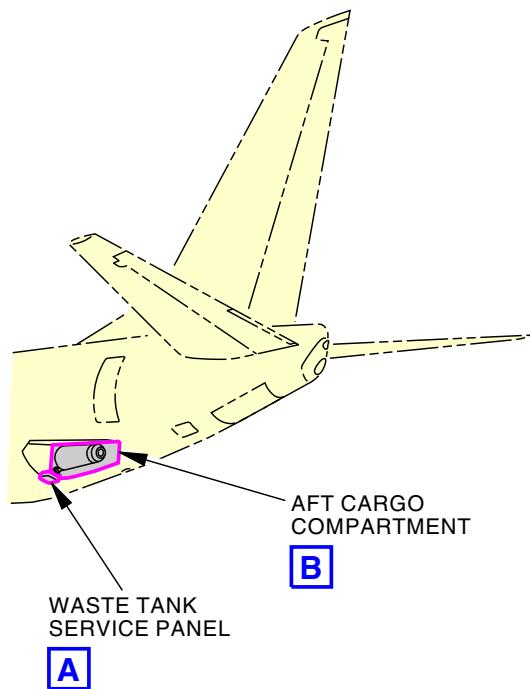
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EFFECTIVITY
LOM ALL

38-32-03



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



G15511 S0006578677_V2

Waste Drain Ball Valve Adjustment
Figure 501/38-32-03-990-803 (Sheet 1 of 2)

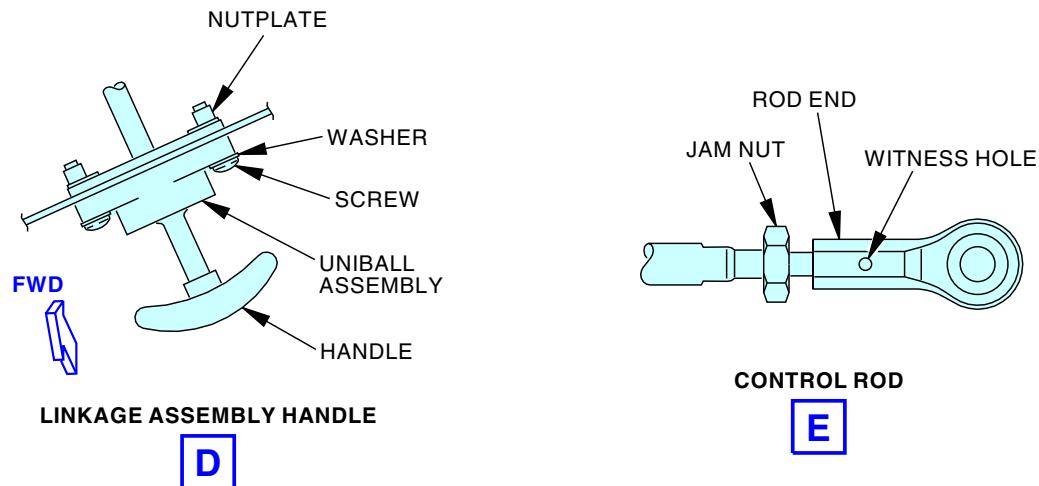
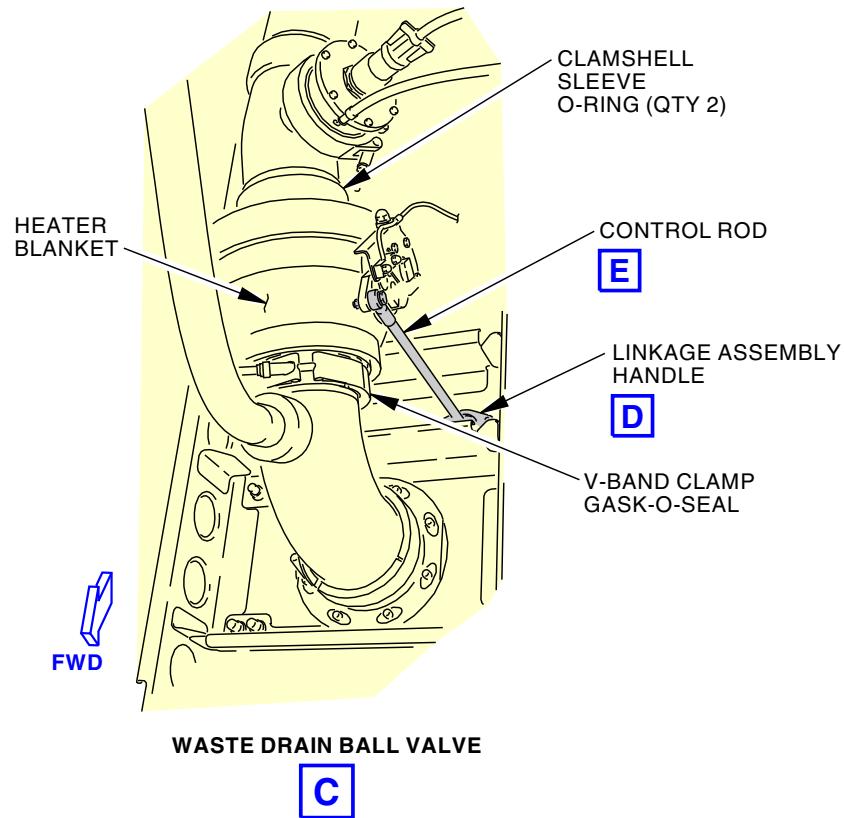
EFFECTIVITY
LOM ALL

38-32-03

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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F81071 S0006578680_V3

Waste Drain Ball Valve Adjustment
Figure 501/38-32-03-990-803 (Sheet 2 of 2)

EFFECTIVITY
 LOM ALL

38-32-03



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

FLUSH SWITCH - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
- (1) A removal of the flush switch
 - (2) An installation of the flush switch.

LOM 446, 447, 455, 456

TASK 38-32-04-000-801

2. Flush Switch Removal

(Figure 401)

A. **Location Zones**

<u>Zone</u>	<u>Area</u>
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage

B. **Access Panels**

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

C. **Prepare for the Removal**

SUBTASK 38-32-04-010-001

- (1) Get access to the lavatory.

SUBTASK 38-32-04-010-008

- (2) To get access to the P91 panel, open this access panel:

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

SUBTASK 38-32-04-860-001



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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT

EFFECTIVITY
LOM ALL

38-32-04



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

LOM 446, 447, 455, 456 (Continued)

D. Flush Switch Removal

SUBTASK 38-32-04-010-002

- (1) Remove the escutcheon.
 - (a) Use an allen wrench to loosen the screws.

SUBTASK 38-32-04-010-003

- (2) Remove the collar assembly with the flush button hole.

SUBTASK 38-32-04-020-001

- (3) Remove the screws [10] and washers [11] to remove the flush switch assembly [12].

SUBTASK 38-32-04-020-002

- (4) Disconnect the electrical connectors for the switch assembly [3].

SUBTASK 38-32-04-020-003

- (5) Get access to the switch assembly [3] as follows:
 - (a) Push the sides of the flush button [6].
 - (b) Pull the top of the flush button [6] out and then down.

SUBTASK 38-32-04-020-004

- (6) Remove the screws [1], washers [8], and nuts [7] to remove the switch mounting plate [9].

SUBTASK 38-32-04-020-005

- (7) Remove the screws [2] and nuts [5] to remove the clamp plate [4] for the switch assembly [3].

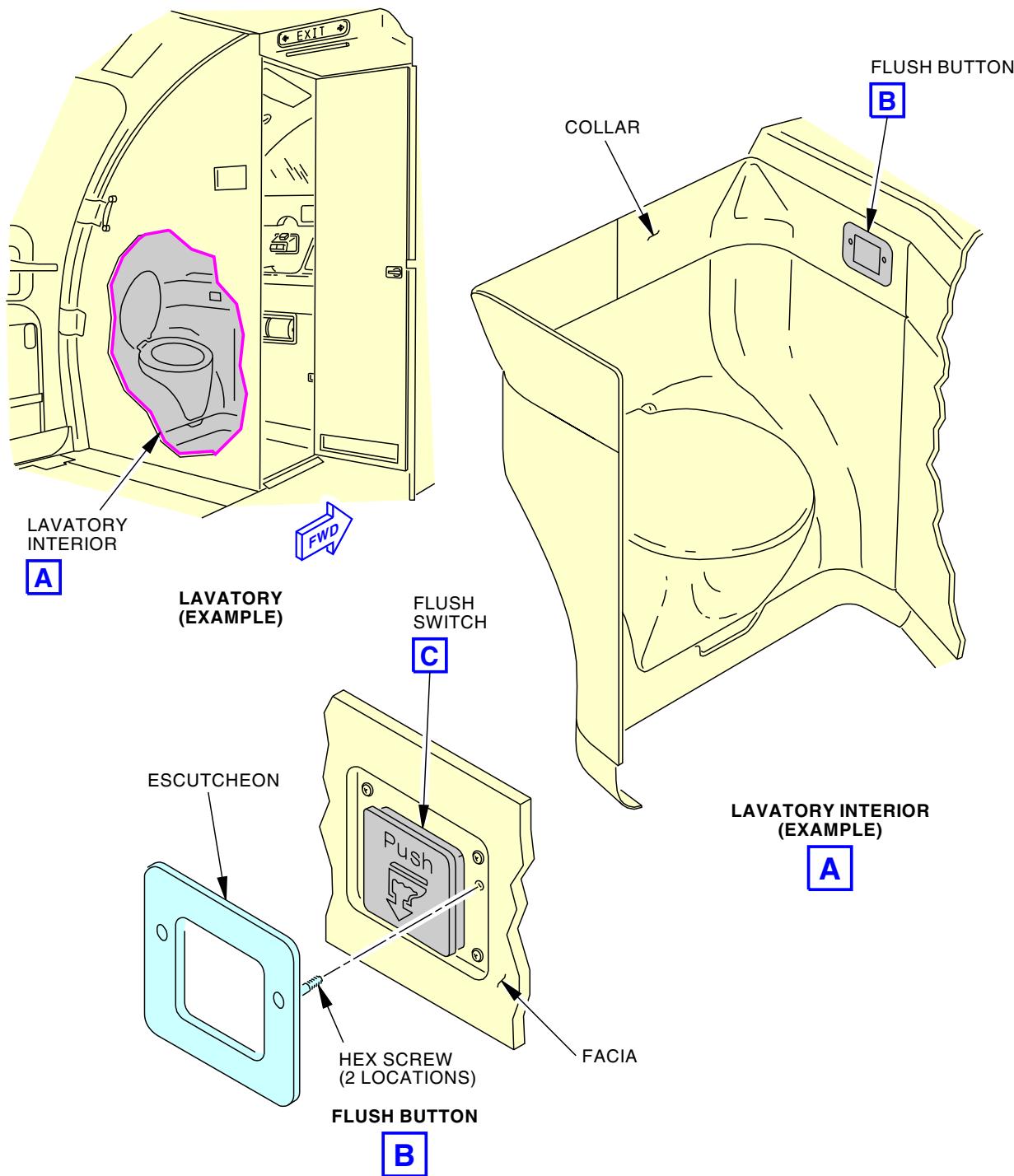
SUBTASK 38-32-04-020-006

- (8) Remove the switch assembly [3].

———— END OF TASK ————

EFFECTIVITY
LOM ALL

38-32-04

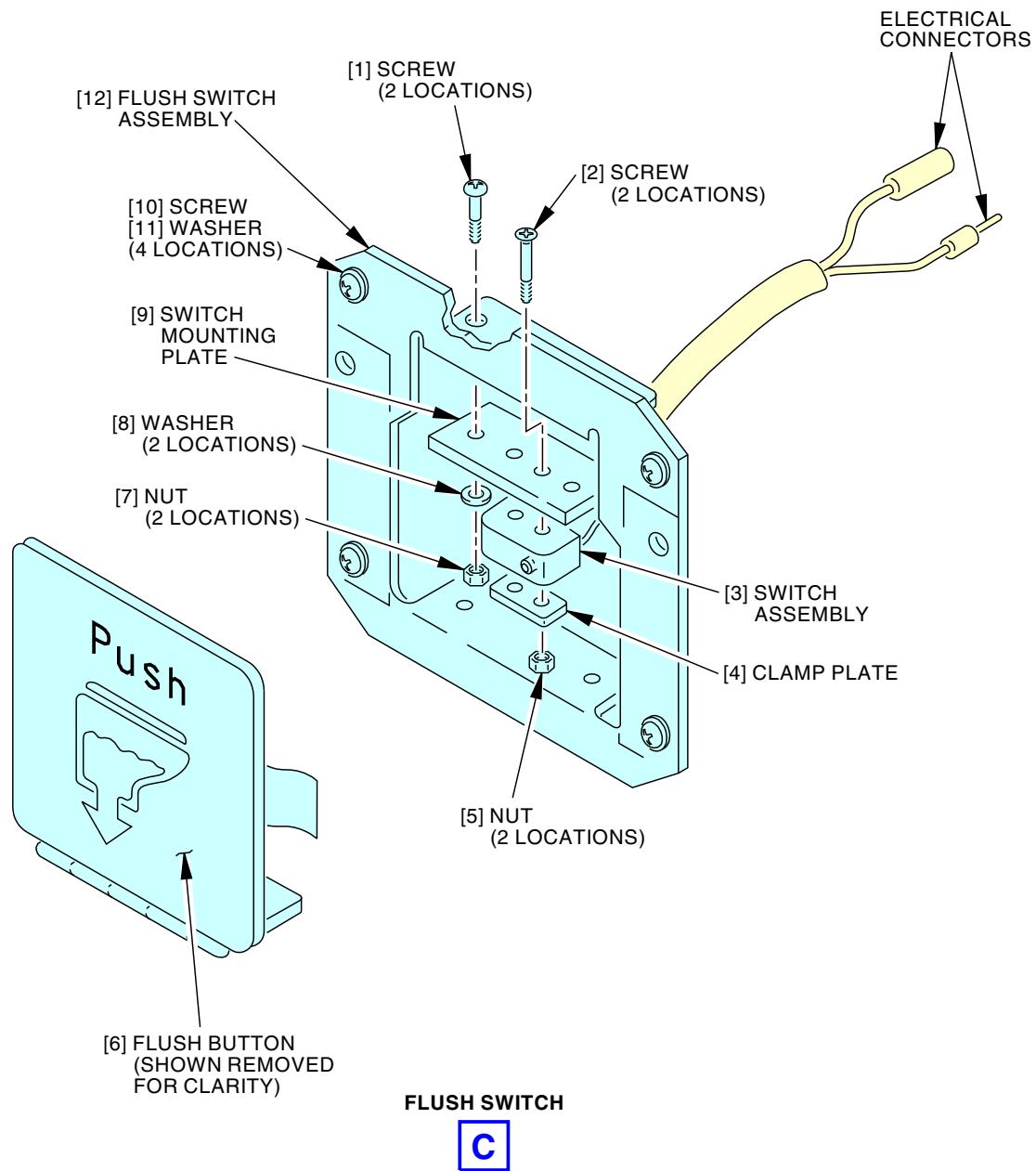


F98902 S0006578685_V2

Flush Switch Installation
Figure 401/38-32-04-990-807 (Sheet 1 of 2)

EFFECTIVITY
LOM 446, 447, 455, 456

38-32-04



F98919 S0006578686_V2

Flush Switch Installation
Figure 401/38-32-04-990-807 (Sheet 2 of 2)

EFFECTIVITY
LOM 446, 447, 455, 456

38-32-04



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

LOM 446, 447, 455, 456 (Continued)

TASK 38-32-04-400-801

3. Flush Switch Installation

(Figure 401)

A. References

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)

B. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage

C. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

D. Flush Switch Installation

SUBTASK 38-32-04-420-001

- (1) Put the switch assembly [3] in its position on the switch mounting plate [9].

NOTE: Refer to the Wiring Diagram Manual (WDM) 38-32-12 for part number information not shown in the Aircraft Illustrated Parts Catalog (AIPC).

SUBTASK 38-32-04-420-002

- (2) Install the screws [2], nuts [5], and clamp plate [4] to connect the switch mounting plate [9] to the switch assembly [3].

SUBTASK 38-32-04-420-003

- (3) Put the switch mounting plate [9] in its position.

SUBTASK 38-32-04-420-004

- (4) Install the screws [1], washers [8], and nuts [7] to connect the switch mounting plate [9].

SUBTASK 38-32-04-420-005

- (5) Connect the electrical connectors for the switch assembly [3].

SUBTASK 38-32-04-420-006

- (6) Put the flush switch assembly [12] in its position.

SUBTASK 38-32-04-420-007

- (7) Install the screws [10] and washers [11] for the flush switch assembly [12].

SUBTASK 38-32-04-420-008

- (8) Install the flush button [6] as follows:

(a) Push the sides of the flush button [6].

(b) Push the top of the flush button [6] up and then closed.

EFFECTIVITY
LOM ALL

38-32-04

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

LOM 446, 447, 455, 456 (Continued)

E. Flush Switch Installation Test

SUBTASK 38-32-04-860-002



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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT

SUBTASK 38-32-04-410-009

- (2) Close this access panel:

Number Name/Location

117A	Electronic Equipment Access Door
------	----------------------------------

SUBTASK 38-32-04-860-003

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

SUBTASK 38-32-04-710-001

- (4) Push the flush switch to make sure that the toilet operates.

F. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-04-410-001

- (1) Install the collar assembly.

SUBTASK 38-32-04-420-009

- (2) Install the flush button escutcheon.

SUBTASK 38-32-04-410-004

- (3) Close the access to the lavatory.

———— END OF TASK ————

EFFECTIVITY
LOM ALL

38-32-04



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

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-464

TASK 38-32-04-000-803

4. Flush Switch Removal (General) Yokohama Rubber Co.

(Figure 402)

A. General

- (1) Cut off electrical power, water, and air source before the flush switch removal. Drain plumbing assembly before plumbing assembly removal.
- (2) It is recommended to do cleaning, check, testing, and fault isolation procedures before removal to prevent the unnecessary dismantling of systems.
- (3) All removed assemblies and sub assemblies shall be tagged or otherwise identified with their exact installed position to facilitate reassembly.

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
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage

D. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

E. Prepare for the Removal

SUBTASK 38-32-04-020-007

- (1) Get access to the lavatory.

SUBTASK 38-32-04-010-012

- (2) To get access to the P91 panel, open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 38-32-04-760-002



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.

EFFECTIVITY
LOM ALL

38-32-04



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

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-464 (Continued)

(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) Open this circuit breaker and install safety tag:

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT

F. Flush Switch Removal

SUBTASK 38-32-04-000-006

- (1) Remove the access door, do these steps:
- Pull the actuator latch [21] of the access door panel to release the lock.
 - Open the access door.
 - Pull down the upper hinge [22] pin and lock it.
 - Pull up the lower hinge [23] pin and lock it.
 - Remove the access door.

NOTE: Keep the access door spacer at the lower hinge pin.

SUBTASK 38-32-04-020-008

- (2) Remove the amenity door, do these steps:
- Pull open the amenity door panel.
 - Remove the screw [26] and washer [40].
 - Release the wire [25].
 - Lay down the amenity door.
 - Release the hinge pins [27] and lock them.
 - Remove the amenity door.

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-428

SUBTASK 38-32-04-020-009

- (3) Remove the toilet shroud assembly, do these steps:
- Push up the shroud latch to release the lock.
 - Slide down the toilet shroud assembly.
 - Take out the toilet shroud assembly.

LOM 429-434, 437-447, 450-464

SUBTASK 38-32-04-020-012

- (4) Remove the toilet shroud assembly, do these steps:
- Remove the tamper proof screws [39] and washers [38].
 - Use the special screwdriver bit, SPL-13800.

EFFECTIVITY
LOM ALL

38-32-04



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

LOM 429-434, 437-447, 450-464 (Continued)

- (b) Slide down the toilet shroud assembly.
- (c) Take out the toilet shroud assembly.

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-464

SUBTASK 38-32-04-020-010

- (5) Remove the surround, do these steps:

- (a) Remove the screws [29] and washers [41].
- (b) Remove the toilet surround 2 [28].
- (c) Remove the screws [32] and washers [44].
- (d) Break sealant between the toilet surround 1 [45] and assist wall.
 - 1) Remove the remaining sealant from the toilet surround 1 [45] and assist wall.
- (e) Remove the toilet surround panel.

SUBTASK 38-32-04-020-011

- (6) Remove the flush switch assembly, do these steps:

- (a) Disconnect the connector [30].
- (b) Remove the screws [34] that secure the flush switch [33].
- (c) Remove the flush switch [33].

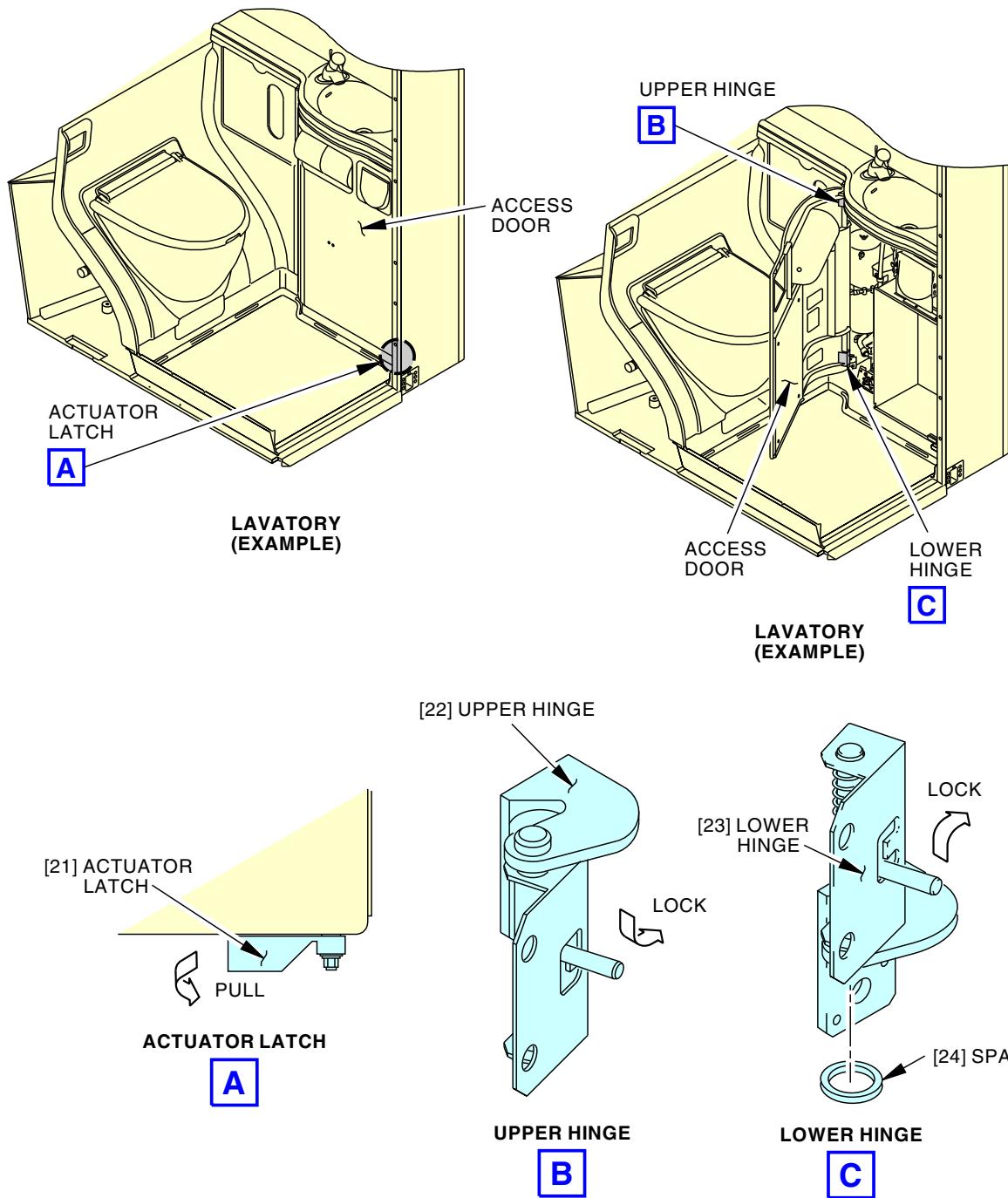
———— END OF TASK ————

EFFECTIVITY
LOM ALL

38-32-04



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



1906459 S0000348340_V3

Flush Switch Installation YRC (General)
Figure 402/38-32-04-990-803 (Sheet 1 of 5)

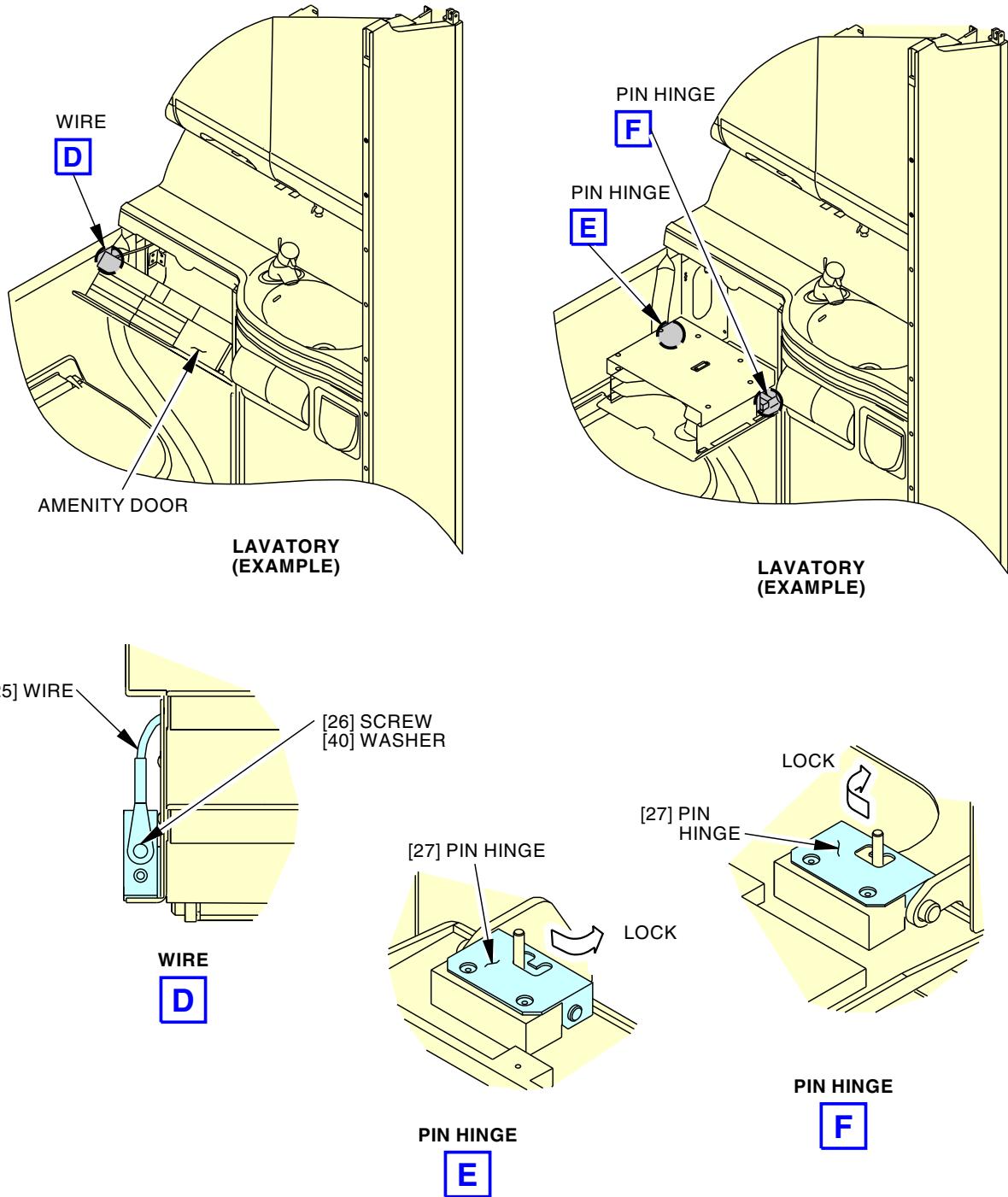
EFFECTIVITY
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
422-434, 437-447, 450-464

38-32-04

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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1906479 S0000348341_V3

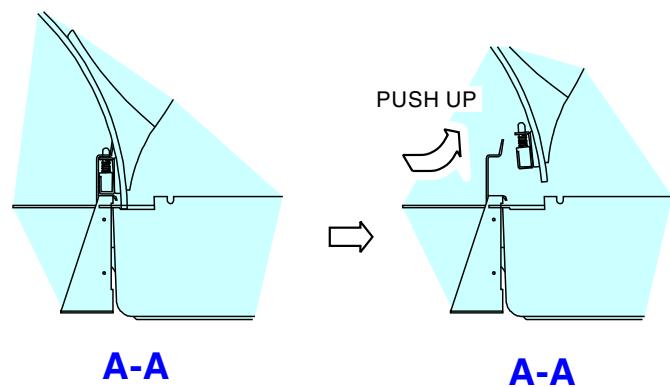
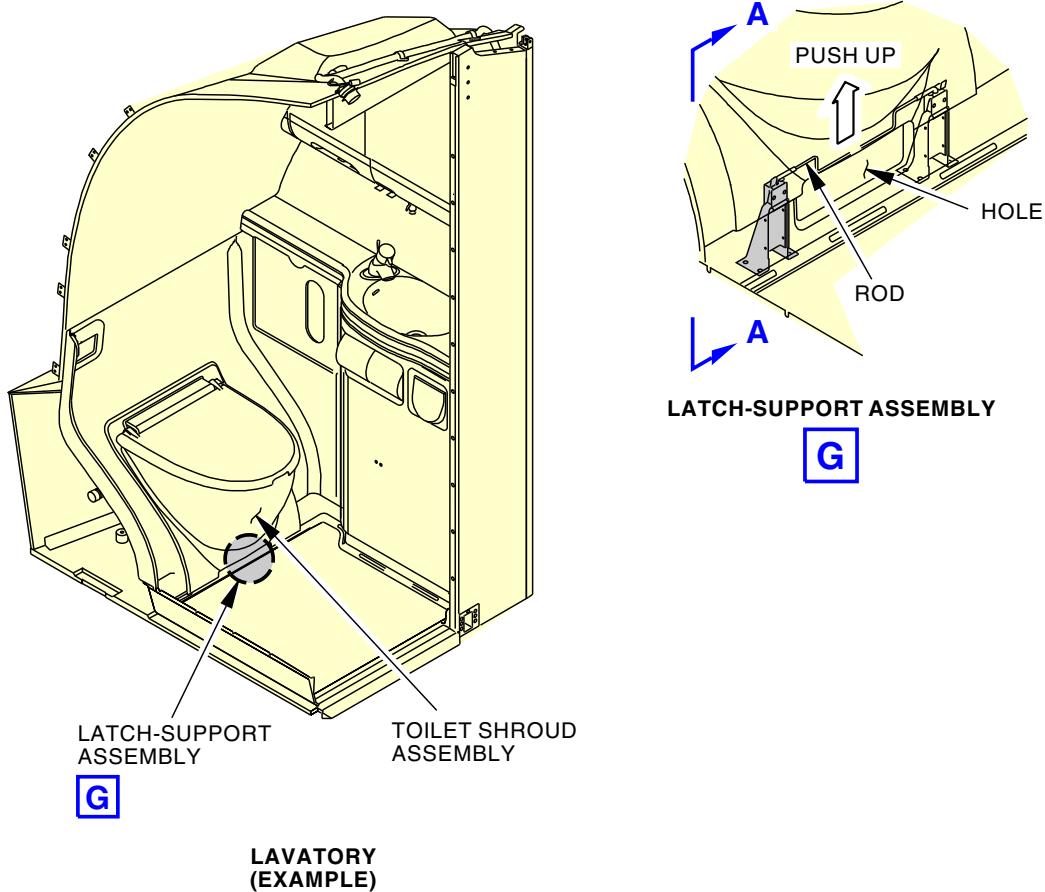
Flush Switch Installation YRC (General)
Figure 402/38-32-04-990-803 (Sheet 2 of 5)

EFFECTIVITY
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
422-434, 437-447, 450-464

38-32-04

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details



1906485 S0000348342_V3

Flush Switch Installation YRC (General)
Figure 402/38-32-04-990-803 (Sheet 3 of 5)

EFFECTIVITY
 LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
 422-428

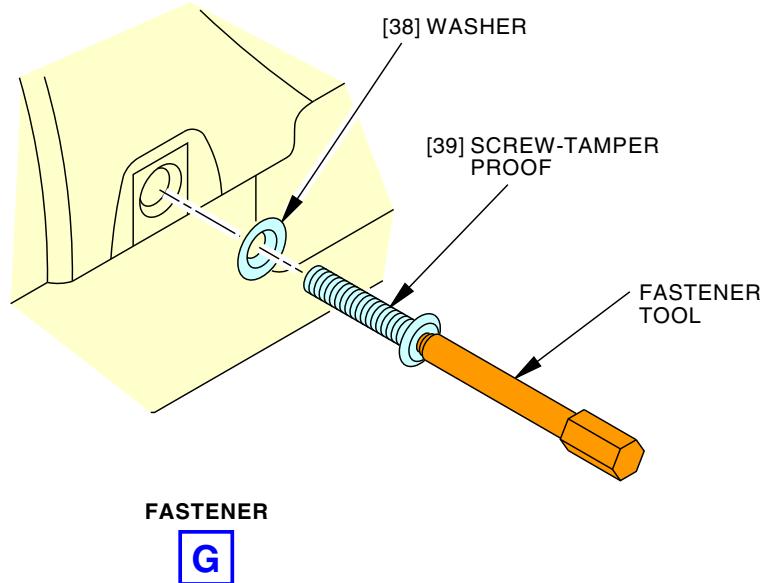
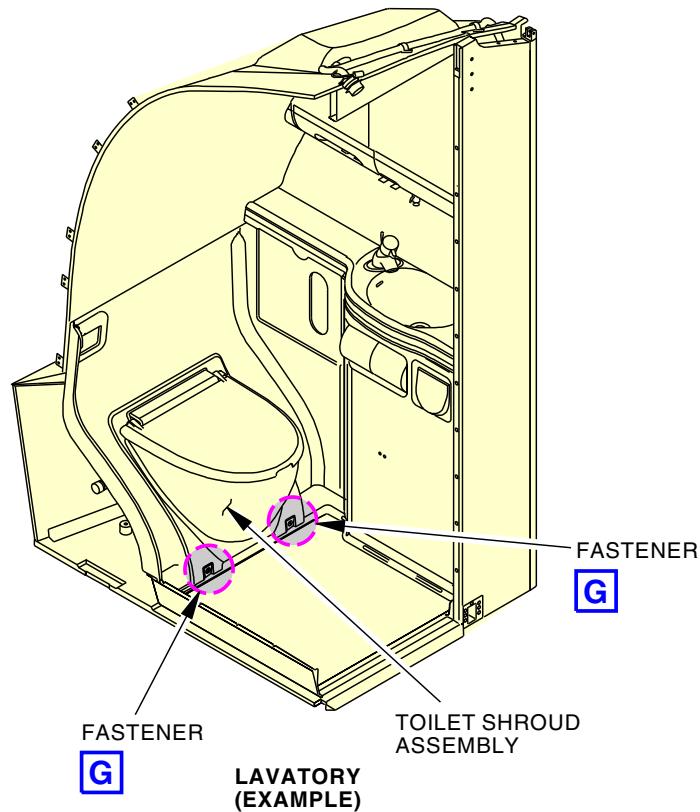
38-32-04

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details



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AIRCRAFT MAINTENANCE MANUAL



2581222 S0000622131_V1

Flush Switch Installation YRC (General)
Figure 402/38-32-04-990-803 (Sheet 4 of 5)

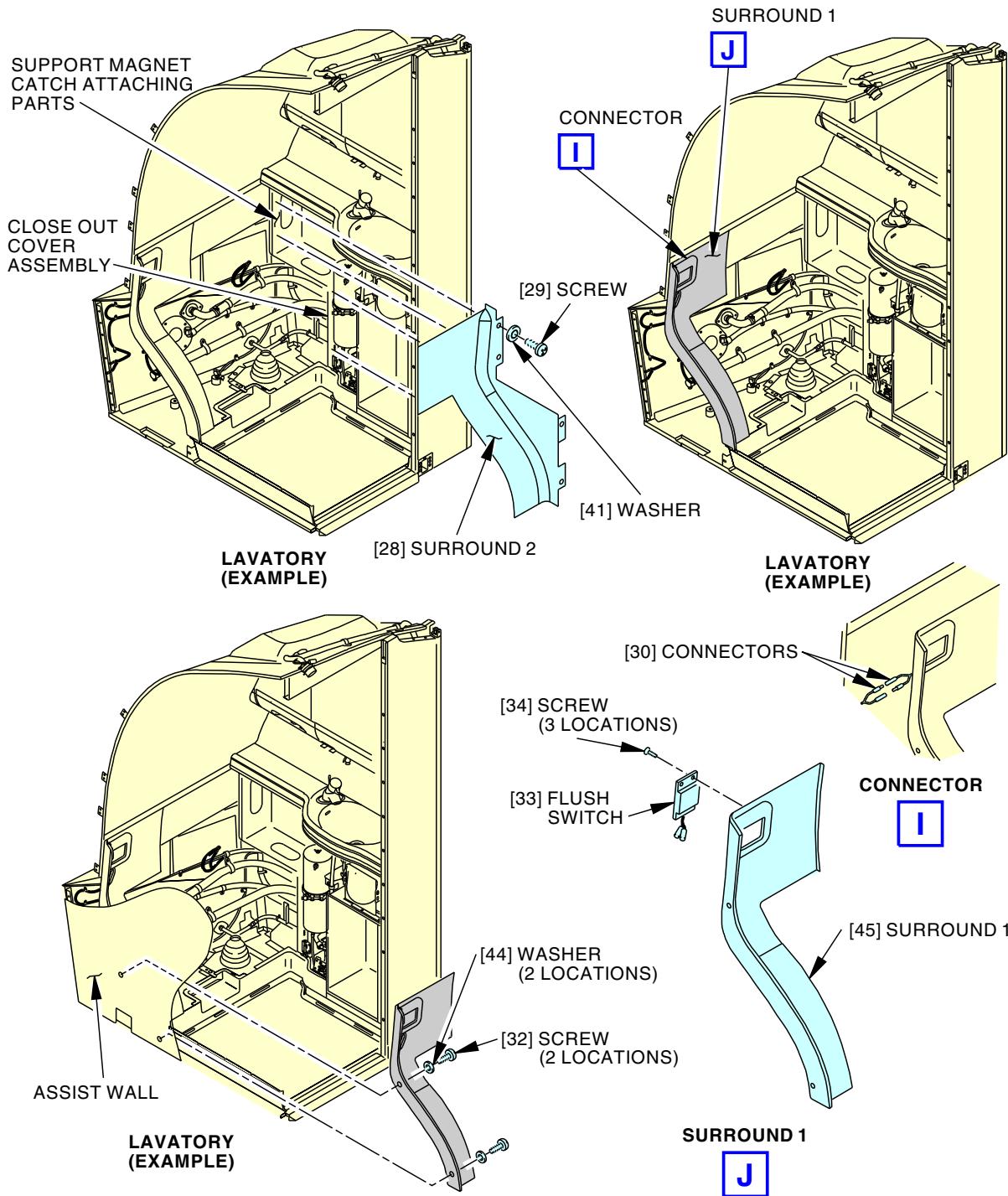
EFFECTIVITY
LOM 429-434, 437-447, 450-464

38-32-04

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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


1906494 S0000348802_V3

Flush Switch Installation YRC (General)
Figure 402/38-32-04-990-803 (Sheet 5 of 5)

EFFECTIVITY
**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
 422-434, 437-447, 450-464**

38-32-04

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details



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

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-464 (Continued)

TASK 38-32-04-400-803

5. Flush Switch Installation (General) Yokohama Rubber Co.

(Figure 402)

A. References

Reference	Title
24-22-00-860-811	Supply Electrical Power (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. Consumable Materials

Reference	Description	Specification
A00281	Adhesive - Dow Corning 3145 RTV	MIL-A-46146 (BAC5010 Type 79)
A50254	Sealant - Momentive Performance Materials TSE382 General Purpose Silicone Adhesive	
B00130	Alcohol - Isopropyl	TT-I-735

D. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage

E. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

F. Flush Switch Installation

SUBTASK 38-32-04-400-006

- (1) Install the flush switch [33], do these steps:

NOTE: Refer to the Wiring Diagram Manual (WDM) 38-32-12 for part number information not shown in the Aircraft Illustrated Parts Catalog (AIPC).

- Attach the flush switch [33] with the screws [34].
- Connect the flush switch connector [30].

SUBTASK 38-32-04-400-007

- (2) Install the surround, do these steps:

- Clean the adjacent area of the toilet surround 1 [45] and assist wall with a clean cloth soaked with isopropyl alcohol, B00130.
- Secure the toilet surround panel to the assist wall with the screws [32] and washers [44].



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LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-464 (Continued)

- (c) Apply TSE382 adhesive sealant, A50254 (preferred), or Dow Corning 3145 RTV adhesive, A00281 (alternative), to the part between the toilet surround 1 [45] and assist wall.
- (d) Secure the toilet surround 2 [28] to the sink deck frame, close out the cover assembly with the screws [29] and washers [41].

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-428

SUBTASK 38-32-04-400-008

- (3) Install the toilet shroud assembly.
 - (a) Secure the toilet shroud assembly to latch the support assembly by pushing the toilet shroud assembly until it latches.

LOM 429-434, 437-447, 450-464

SUBTASK 38-32-04-400-011

- (4) Install the toilet shroud assembly, do these steps:
 - (a) Put the top of the toilet shroud in its position on the toilet surround panel.
 - (b) Push the toilet shroud up, to its installed position.
 - (c) Install the tamper proof screws [39] and washers [38].
 - 1) Use the special screwdriver bit, SPL-13800.

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-464

SUBTASK 38-32-04-400-009

- (5) Install the amenity door, do these steps:
 - (a) Secure the amenity dispenser box by the hinge pins [27].
 - (b) Secure the wire [25] to the amenity door with the screw [26] and washer [40].
 - (c) Close the amenity panel door.

SUBTASK 38-32-04-400-010

- (6) Install the access door, do these steps:
 - (a) Set the access door spacer [24] at the lower hinge [23] pin.
 - (b) Secure the access door by the upper hinge [22] pin and lower hinge [23] pin.
 - (c) Push the access door until it latches.

G. Flush Switch Installation Test

SUBTASK 38-32-04-760-003



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.

EFFECTIVITY
LOM ALL

38-32-04



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

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-464 (Continued)

(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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT

SUBTASK 38-32-04-410-015

- (2) Close this access panel:

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

SUBTASK 38-32-04-760-004

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

SUBTASK 38-32-04-700-001

- (4) Push the flush switch to make sure that the toilet operates.

SUBTASK 38-32-04-410-007

- (5) Close the access to the lavatory.

———— END OF TASK ————

LOM 465-999

TASK 38-32-04-000-804

6. Flush Switch Removal B/E Aerospace

(Figure 403)

A. General

- (1) Turn off the electrical power, depressurize the water system and close the water shutoff valve before removal procedures.
- (2) Be careful that the tools used and work done do not cause damage mechanically or aesthetically on other lavatory parts.

B. Location Zones

<u>Zone</u>	<u>Area</u>
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage

C. Access Panels

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

———— EFFECTIVITY ————
LOM ALL

38-32-04



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

LOM 465-999 (Continued)

D. Prepare for the Removal

SUBTASK 38-32-04-010-011

- (1) To get access to the P91 panel, open this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-32-04-860-006



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.

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

Power Distribution Panel Number 1, P91

Row	Col	Number	Name
C	11	C01388	VACUUM WASTE CONT

SUBTASK 38-32-04-010-007

- (3) Get access to the lavatory.

E. Flush Switch Removal

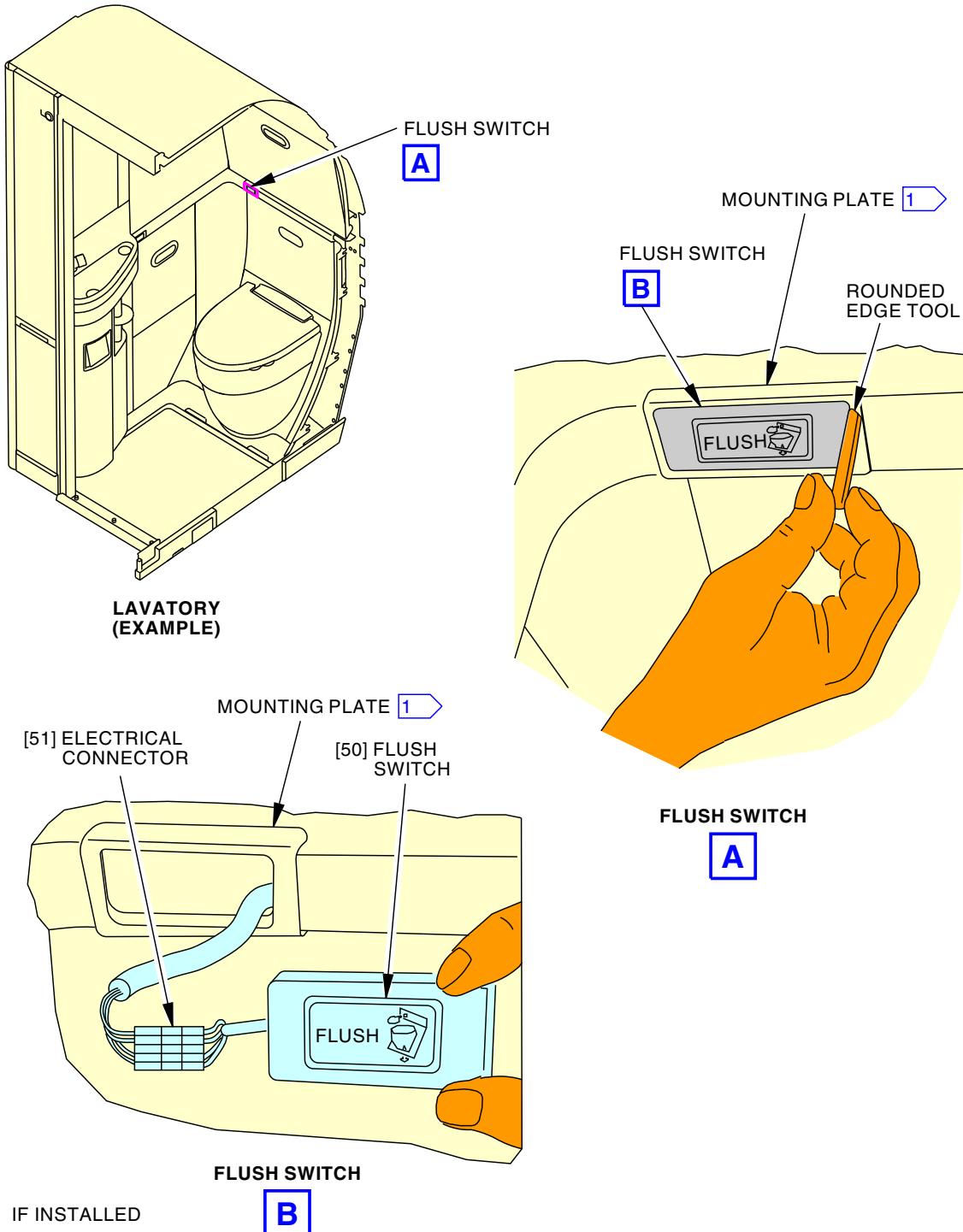
SUBTASK 38-32-04-020-013

- (1) Remove the flush switch [50].
(a) Remove the flush switch [50] with a rounded edge flat tool.
 1) Do not remove the mounting plate.
(b) Disconnect the electrical connector [51].

———— END OF TASK ————

— EFFECTIVITY —
LOM ALL

38-32-04



2796772 S0000636359_V2

Flush Switch Replacement
Figure 403/38-32-04-990-805

 EFFECTIVITY
 LOM 465-999

38-32-04

D633A101-LOM



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LOM 465-999 (Continued)

TASK 38-32-04-400-804

7. Flush Switch Installation B/E Aerospace

(Figure 403)

A. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage

B. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

C. Flush Switch Installation

SUBTASK 38-32-04-420-010

- (1) Connect the flush switch [50] to the electrical connector [51].

SUBTASK 38-32-04-420-011

- (2) Put the flush switch [50] in its position on the switch mounting panel or mounting plate.

SUBTASK 38-32-04-420-012

- (3) Push the flush switch [50] onto the panel or mounting plate.

D. Flush Switch Installation Test

SUBTASK 38-32-04-860-004



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.

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

Power Distribution Panel Number 1, P91

Row	Col	Number	Name
C	11	C01388	VACUUM WASTE CONT

SUBTASK 38-32-04-410-012

- (2) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

EFFECTIVITY
LOM ALL

38-32-04

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LOM 465-999 (Continued)

SUBTASK 38-32-04-710-002

- (3) Push the flush switch [50] to make sure that the toilet operates.

E. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-04-410-008

- (1) Close the access to the lavatory.

———— END OF TASK ————

— EFFECTIVITY —
LOM ALL

38-32-04

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VACUUM BLOWER - REMOVAL/INSTALLATION

1. General

- A. This procedure contains scheduled maintenance task data.
- B. This procedure has these tasks:
 - (1) A removal of the vacuum blower.
 - (2) An installation of the vacuum blower.
 - (3) A restore (clean) or replacement of the filter for the vacuum blower.

NOTE: There are two possible vacuum blower types. Vacuum blower, part number 606802-2, has a filter. Vacuum blower, part number 645172-(), does not have a filter. The two vacuum blower types are interchangeable.

TASK 38-32-05-000-801

2. Vacuum Blower Removal

(Figure 401)

A. General

- (1) This procedure removes the vacuum blower.

B. References

<u>Reference</u>	<u>Title</u>
25-52-20-000-801	Waste Tank Enclosure Panel - Removal (P/B 401)
38-32-00-910-801	Standard Practices for Work with the Toilet Waste and Equipment (P/B 201)

C. Location Zones

<u>Zone</u>	<u>Area</u>
117	Electrical and Electronics Compartment - Left
141	Aft Cargo Compartment - Left

D. Access Panels

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

E. Prepare for the Removal

SUBTASK 38-32-05-010-001

- (1) Open this access panel:

<u>Number</u>	<u>Name/Location</u>
822	Aft Cargo Door

SUBTASK 38-32-05-010-002

- (2) Do this task: Waste Tank Enclosure Panel - Removal, TASK 25-52-20-000-801.

SUBTASK 38-32-05-010-007

- (3) To get access to the P91 panel, open this access panel:

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

EFFECTIVITY
LOM ALL

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SUBTASK 38-32-05-040-001



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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT
F	2	C01389	VACUUM WASTE BLOWER

SUBTASK 38-32-05-910-001

- (5) Do this task: Standard Practices for Work with the Toilet Waste and Equipment, TASK 38-32-00-910-801.

F. Vacuum Blower Removal

SUBTASK 38-32-05-020-001



CAUTION

USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (1) Disconnect the electrical connector [8] from the vacuum blower [2].

SUBTASK 38-32-05-020-002

- (2) To disconnect the vacuum blower [2], do these steps:
- For the outlet piping of the vacuum blower [2], disconnect the clamps [10] to disconnect the flexible coupling [9].
 - For the inlet piping of the vacuum blower [2], disconnect the clamps [1] to disconnect the flexible coupling [11].

SUBTASK 38-32-05-020-003

- (3) Remove the nut to disconnect the ground wire [7] from the vacuum blower [2].

NOTE: Install the nut on the vacuum blower.

SUBTASK 38-32-05-020-004

- (4) Remove the bolts [3], countersunk washers [4], washers [5], and nuts [6].

SUBTASK 38-32-05-020-005

- (5) Remove the vacuum blower [2] from its position.

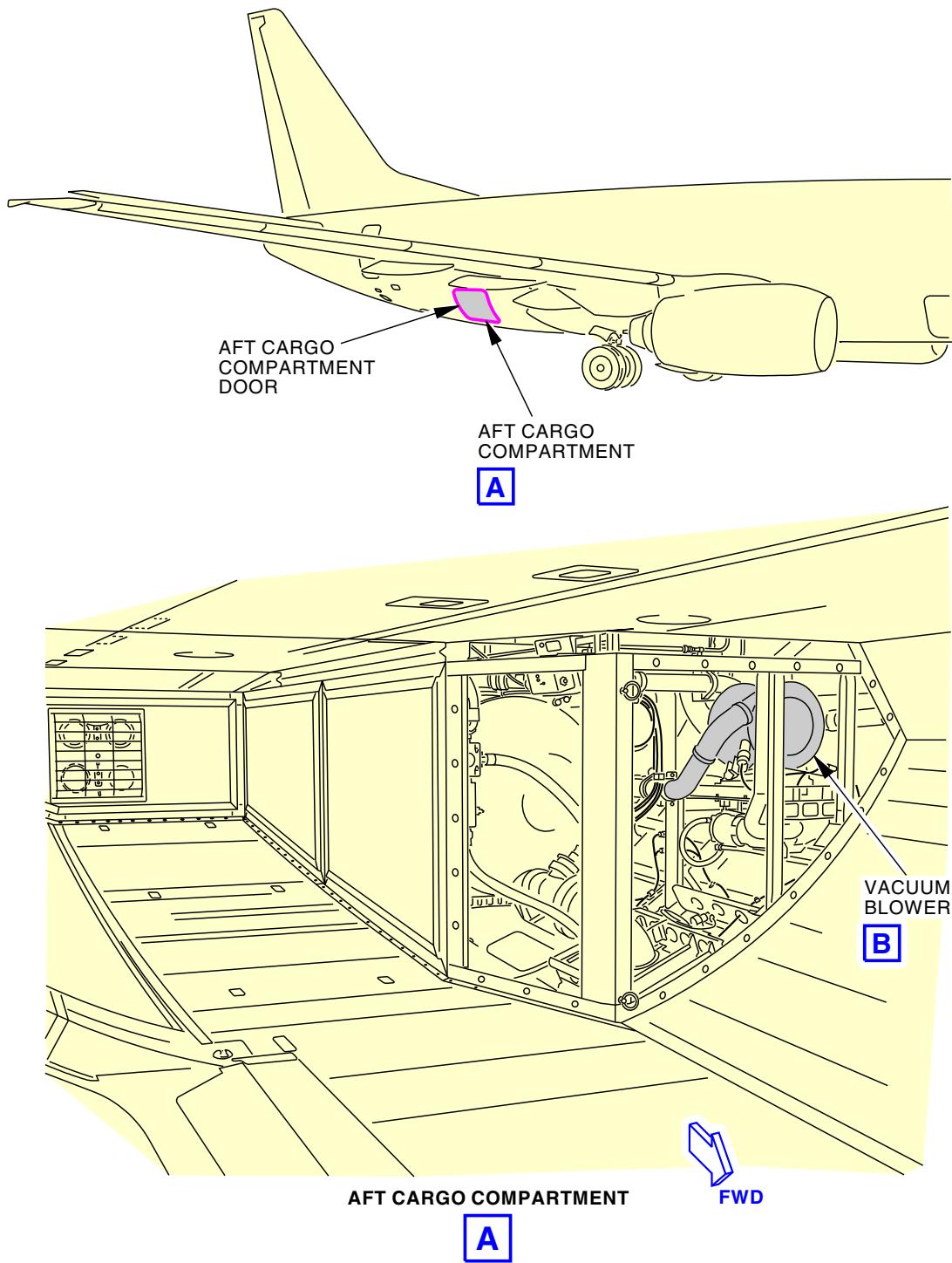
— END OF TASK —

EFFECTIVITY
LOM ALL

38-32-05



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AIRCRAFT MAINTENANCE MANUAL



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Vacuum Blower Installation
Figure 401/38-32-05-990-803 (Sheet 1 of 2)

EFFECTIVITY
LOM ALL

38-32-05

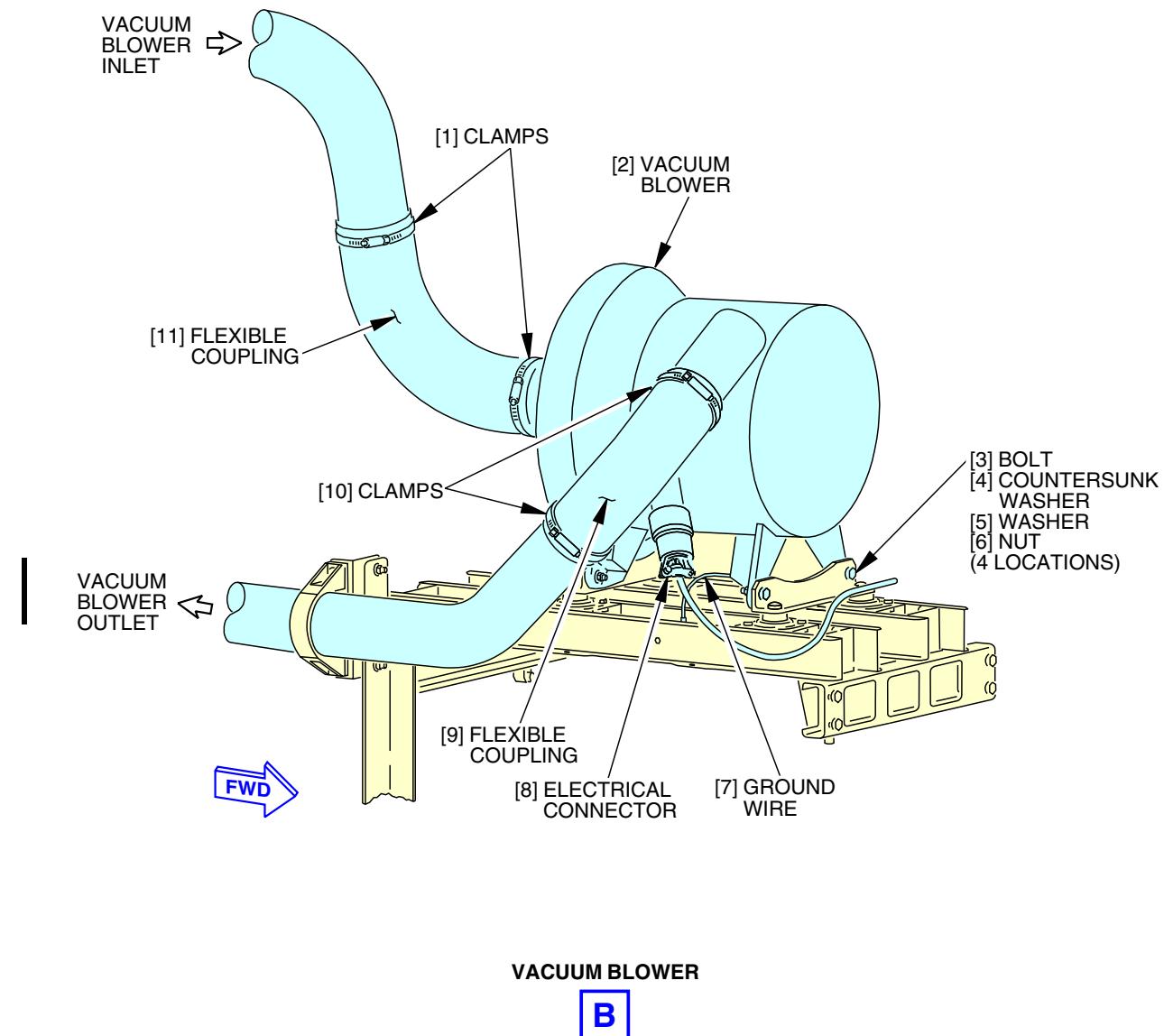
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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Vacuum Blower Installation
Figure 401/38-32-05-990-803 (Sheet 2 of 2)

EFFECTIVITY
LOM ALL

38-32-05

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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TASK 38-32-05-400-801

3. Vacuum Blower Installation

(Figure 401)

A. General

- (1) This task gives the instructions to install the vacuum blower.

B. References

Reference	Title
25-52-20-400-801	Waste Tank Enclosure Panel - Installation (P/B 401)
SWPM 20-20-00	ELECTRICAL BONDING PROCESSES

C. Tools/Equipment

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

Reference	Description
COM-614	Bonding Meters - Non-Intrinsically Safe (For use in outside Class I, Divisions I & II non-hazardous locations. For hazardous locations, use COM-1550). Part #: 247000 Supplier: 00426 Part #: 620LK Supplier: 1CRL2 Part #: BLR-0003-XX Supplier: KC432 Part #: BT51 Supplier: 00426 Part #: M1 Supplier: 3AD17 Part #: M1B Supplier: 3AD17 Part #: T477W (C15292) Supplier: 06659 Opt Part #: 247001 Supplier: 00426

D. Consumable Materials

Reference	Description	Specification
A50231	Sealant - Pressure And Environmental - Chromate Type	BMS5-95 Class B
A50337	Sealant - Fuel Tank	BMS5-45 Class B
A50359	Sealant - Low Density, Non-Chromate Type	BMS5-142 Type II Class B
B00130	Alcohol - Isopropyl	TT-I-735
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	AMS3819 Class 1 Grade A or B Form 1 (Supersede BMS15-5 CL A)

E. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
2	Vacuum blower	38-32-05-01-030	LOM ALL
		38-32-05-01-205	LOM ALL

F. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
141	Aft Cargo Compartment - Left



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G. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
822	Aft Cargo Door

H. Vacuum Blower Installation

SUBTASK 38-32-05-420-001



CAUTION

USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (1) Put the vacuum blower [2] in its position.

SUBTASK 38-32-05-420-002

- (2) Install the bolts [3], countersunk washers [4], washers [5], and nuts [6].
 - (a) Install the aft bolts [3] with the head in the aft direction and forward bolts [3] with the head in the forward direction.

SUBTASK 38-32-05-420-003

- (3) Connect the vacuum blower [2] as follows:
 - (a) For the inlet piping, connect the flexible coupling [11] with the clamps [1].
 - (b) For the outlet piping, connect the flexible coupling [9] with the clamp [10].

SUBTASK 38-32-05-020-006

- (4) Remove the nut that attaches the ground wire [7] from vacuum blower [2].

NOTE: The nut is on the vacuum blower.

SUBTASK 38-32-05-420-004

- (5) Connect the ground wire [7] with the nut from the vacuum blower [2].
 - (a) Use cotton wiper, G00034, moist in alcohol, B00130, to clean the mating surfaces of the ground wire [7], vacuum blower [2], and nut.
 - (b) Install the nut to attach the ground wire [7] to the terminal.
 - (c) Tighten the nut to 28 in-lb (3 N·m) - 35 in-lb (4 N·m).
 - (d) Measure the electrical bonding resistance between the ground wire [7] and vacuum blower [2] structure (SWPM 20-20-00).
 - 1) Use the non-intrinsically safe bonding meter, COM-614.
 - 2) Make sure that the electrical bonding resistance is 0.001 ohm (1.0 milliohm) or less.
 - (e) Apply fillet seal with sealant, A50337, or sealant, A50231, or sealant, A50359, to cover the nut and ground wire [7] terminal.

SUBTASK 38-32-05-420-005

- (6) Connect the electrical connector [8] to the vacuum blower [2].

EFFECTIVITY
LOM ALL

38-32-05



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I. Vacuum Blower Installation Test

SUBTASK 38-32-05-860-001



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.

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

Power Distribution Panel Number 1, P91

Row	Col	Number	Name
C	11	C01388	VACUUM WASTE CONT
F	2	C01389	VACUUM WASTE BLOWER

SUBTASK 38-32-05-410-003

- (2) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-32-05-760-001

- (3) Make sure that the vacuum blower [2] operates as follows:

- (a) Make sure that the vacuum blower [2] starts when you push the flush switch for a toilet.

NOTE: If the vacuum blower operates before you push the flush switch, there is a problem in the control circuits.

- (b) Make sure that the vacuum blower [2] stops after approximately 15 seconds.

NOTE: If the vacuum blower continues to operate after approximately 15 seconds, there is a problem in the control circuits.

J. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-05-010-003



WARNING

SEAL THE CARGO COMPARTMENT WITH THE LINING. OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN YOU INSTALL THE LINING. IF YOU INSTALL THE LINING INCORRECTLY, THE SMOKE CAN GET INTO THE PASSENGER COMPARTMENT DURING A FIRE.

- (1) Do this task: Waste Tank Enclosure Panel - Installation, TASK 25-52-20-400-801.

SUBTASK 38-32-05-410-001

- (2) Close this access panel:

Number Name/Location

822 Aft Cargo Door

EFFECTIVITY
LOM ALL

38-32-05



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— END OF TASK —

TASK 38-32-05-960-801

4. Vacuum Blower Filter Restore (Clean) or Replace

(Figure 402)

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
25-52-20-000-801	Waste Tank Enclosure Panel - Removal (P/B 401)
25-52-20-400-801	Waste Tank Enclosure Panel - Installation (P/B 401)

B. Tools/Equipment

Reference	Description
STD-1280	Source - Air, Regulated, Dry Filtered, 0-30 PSIG

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
31	Packing	38-32-05-01-150	LOM ALL
32	Vacuum blower filter	38-32-05-01-155	LOM ALL

D. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
141	Aft Cargo Compartment - Left

E. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
822	Aft Cargo Door

F. Prepare for the Removal

NOTE: There are two possible vacuum blowers types. Vacuum blower, part number 606802-2, has a filter. Vacuum blower, part number 645172-(), does not have a filter. The two vacuum blower types are interchangeable.

SUBTASK 38-32-05-010-004

- (1) Open this access panel:

Number	Name/Location
822	Aft Cargo Door

SUBTASK 38-32-05-010-005

- (2) Do this task: Waste Tank Enclosure Panel - Removal, TASK 25-52-20-000-801.

SUBTASK 38-32-05-010-008

- (3) To get access to the P91 panel, open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

EFFECTIVITY	
LOM ALL	

38-32-05



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SUBTASK 38-32-05-040-002



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.

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

Power Distribution Panel Number 1, P91

Row	Col	Number	Name
C	11	C01388	VACUUM WASTE CONT
F	2	C01389	VACUUM WASTE BLOWER

G. Vacuum Blower Filter Removal

SUBTASK 38-32-05-020-007

- (1) Remove and discard the packings [31] that attach the vacuum blower filter [32] to the vacuum blower.

SUBTASK 38-32-05-020-008

- (2) Remove the vacuum blower filter [32] from the vacuum blower.

H. Vacuum Blower Filter Restoration or Replacement

SUBTASK 38-32-05-420-008



CAUTION

USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (1) Clean the vacuum blower filter [32] with an 0-30 psig dry filtered regulated air source, STD-1280, in the opposite direction of the usual flow.

SUBTASK 38-32-05-420-009

- (2) Do a check of the vacuum blower filter [32] for damage or signs of worn areas.
 - (a) If the vacuum blower filter [32] has damage or signs of worn areas, use a new vacuum blower filter [32].
 - (b) If the vacuum blower filter [32] is serviceable, then continue.

I. Vacuum Blower Filter Installation

SUBTASK 38-32-05-420-006

- (1) Put the vacuum blower filter [32] in its position.

SUBTASK 38-32-05-420-007

- (2) Install the new packings [31] that attach the vacuum blower filter [32] to the vacuum blower.

EFFECTIVITY
LOM ALL

38-32-05



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J. Vacuum Blower Filter Installation Test

SUBTASK 38-32-05-860-003



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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT
F	2	C01389	VACUUM WASTE BLOWER

SUBTASK 38-32-05-410-004

- (2) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-32-05-760-002

- (3) Make sure that the vacuum blower operates as follows:

- (a) Make sure that the vacuum blower starts when you push the flush switch for a toilet.

NOTE: If the vacuum blower operates before you push the flush switch, there is a problem in the control circuits.

- (b) Make sure that the vacuum blower stops after approximately 15 seconds.

NOTE: If the vacuum blower continues to operate after approximately 15 seconds, there is a problem in the control circuits.

K. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-05-010-006



WARNING

SEAL THE CARGO COMPARTMENT WITH THE LINING. OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN YOU INSTALL THE LINING. IF YOU INSTALL THE LINING INCORRECTLY, THE SMOKE CAN GET INTO THE PASSENGER COMPARTMENT DURING A FIRE.

- (1) Do this task: Waste Tank Enclosure Panel - Installation, TASK 25-52-20-400-801.

SUBTASK 38-32-05-410-002

- (2) Close this access panel:

Number Name/Location

822 Aft Cargo Door

EFFECTIVITY
LOM ALL

38-32-05



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———— END OF TASK ————

———— EFFECTIVITY ————
LOM ALL

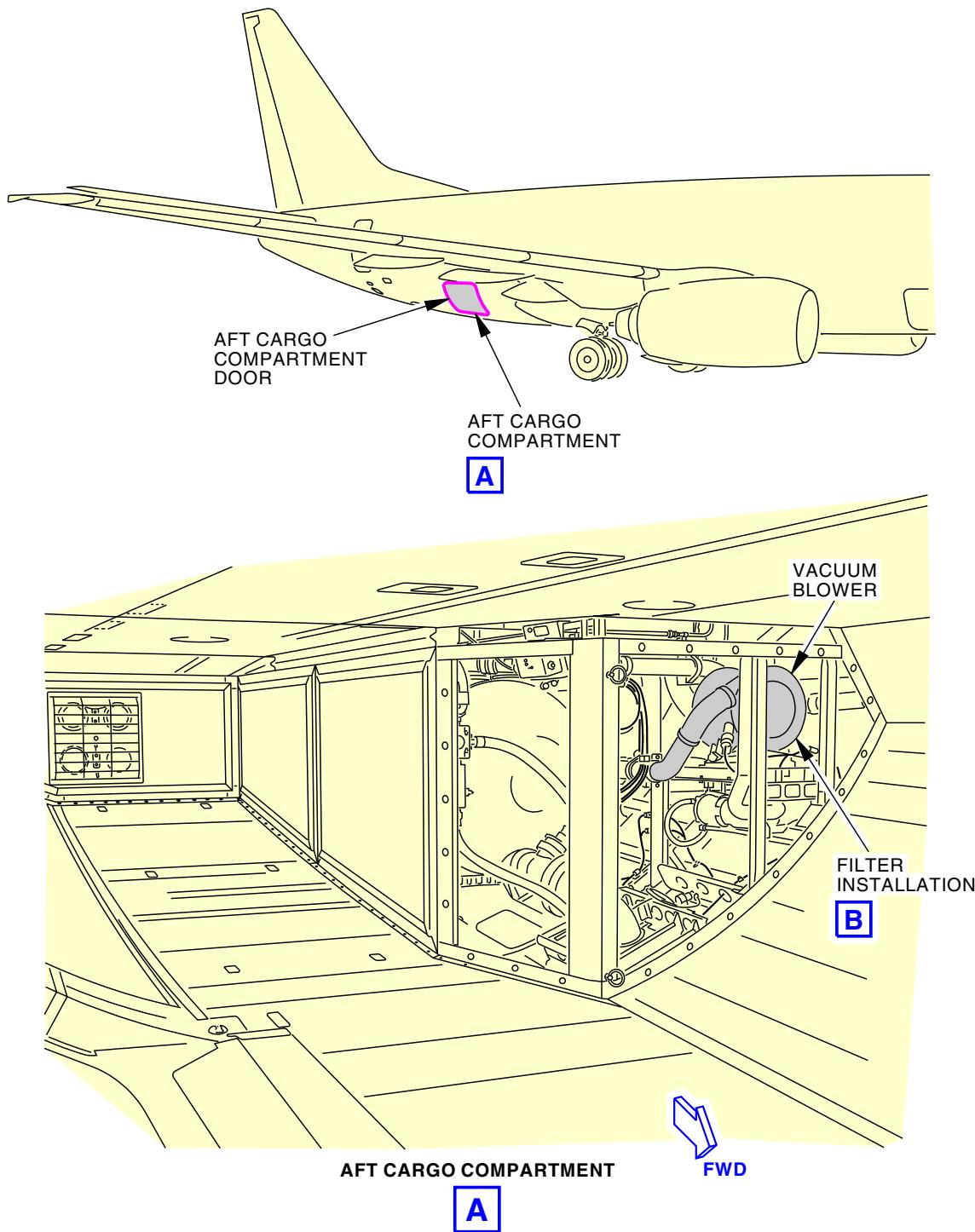
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Vacuum Blower Filter Installation
Figure 402/38-32-05-990-802 (Sheet 1 of 2)

EFFECTIVITY
LOM ALL

38-32-05

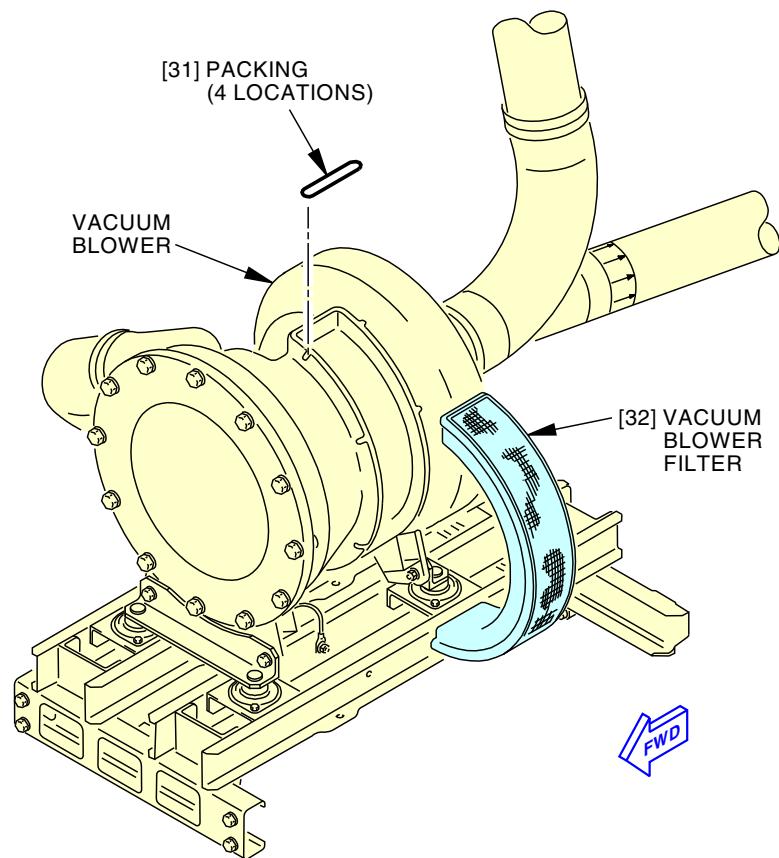
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FILTER INSTALLATION

B

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Vacuum Blower Filter Installation
Figure 402/38-32-05-990-802 (Sheet 2 of 2)

EFFECTIVITY
LOM ALL

38-32-05

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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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VACUUM CHECK VALVE - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
 - (1) A removal of the vacuum check valve.
 - (2) An installation of the vacuum check valve.
- B. The vacuum check valve is referred to as the check valve in this procedure.

TASK 38-32-06-000-801

2. Vacuum Check Valve Removal

(Figure 401)

A. References

Reference	Title
25-52-20-000-801	Waste Tank Enclosure Panel - Removal (P/B 401)
38-32-00-910-801	Standard Practices for Work with the Toilet Waste and Equipment (P/B 201)

B. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
141	Aft Cargo Compartment - Left

C. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
822	Aft Cargo Door

D. Prepare for the Removal

SUBTASK 38-32-06-010-001

- (1) Open this access panel:

Number	Name/Location
822	Aft Cargo Door

SUBTASK 38-32-06-010-002

- (2) Do this task: Waste Tank Enclosure Panel - Removal, TASK 25-52-20-000-801.

SUBTASK 38-32-06-010-003

- (3) To get access to the P91 panel, open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 38-32-06-040-001



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.

EFFECTIVITY
LOM ALL

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(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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT
F	2	C01389	VACUUM WASTE BLOWER

SUBTASK 38-32-06-910-001

- (5) Do this task: Standard Practices for Work with the Toilet Waste and Equipment, TASK 38-32-00-910-801.

E. Check Valve Removal

SUBTASK 38-32-06-020-001



CAUTION

USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (1) Loosen the clamps [2] to disconnect the flexible coupling [1] from the check valve [3].

SUBTASK 38-32-06-020-002

- (2) Remove the check valve [3].

———— END OF TASK ————

TASK 38-32-06-400-801

3. Vacuum Check Valve Installation

(Figure 401)

A. References

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
25-52-20-400-801	Waste Tank Enclosure Panel - Installation (P/B 401)

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
3	Check valve	38-32-06-01-246	LOM 422-434, 437-447, 450-999
		38-32-06-01-297	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420

C. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
141	Aft Cargo Compartment - Left

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D. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
822	Aft Cargo Door

E. Check Valve Installation

SUBTASK 38-32-06-420-001



CAUTION

USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (1) Put the check valve [3] in its position.
 - (a) Make sure that the flow arrow is in the down direction.

SUBTASK 38-32-06-420-002

- (2) Connect the flexible coupling [1] with the clamps [2].

SUBTASK 38-32-06-420-003

- (3) Tighten the clamps [2] to 17 ± 1 in-lb (1.92 ± 0.11 N·m).

F. Check Valve Installation Test

SUBTASK 38-32-06-860-001



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.

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

Power Distribution Panel Number 1, P91

Row	Col	Number	Name
C	11	C01388	VACUUM WASTE CONT
F	2	C01389	VACUUM WASTE BLOWER

SUBTASK 38-32-06-410-003

- (2) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-32-06-860-002

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

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SUBTASK 38-32-06-710-001

- (4) Flush a toilet in the waste system.

SUBTASK 38-32-06-790-001

- (5) Make sure that there is no leakage at the check valve connections.

G. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-06-410-001



WARNING

SEAL THE CARGO COMPARTMENT WITH THE LINING. OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN YOU INSTALL THE LINING. IF YOU INSTALL THE LINING INCORRECTLY, THE SMOKE CAN GET INTO THE PASSENGER COMPARTMENT DURING A FIRE.

- (1) Do this task: Waste Tank Enclosure Panel - Installation, TASK 25-52-20-400-801.

SUBTASK 38-32-06-410-002

- (2) Close this access panel:

Number Name/Location

822 Aft Cargo Door

———— END OF TASK ————

— EFFECTIVITY —
LOM ALL

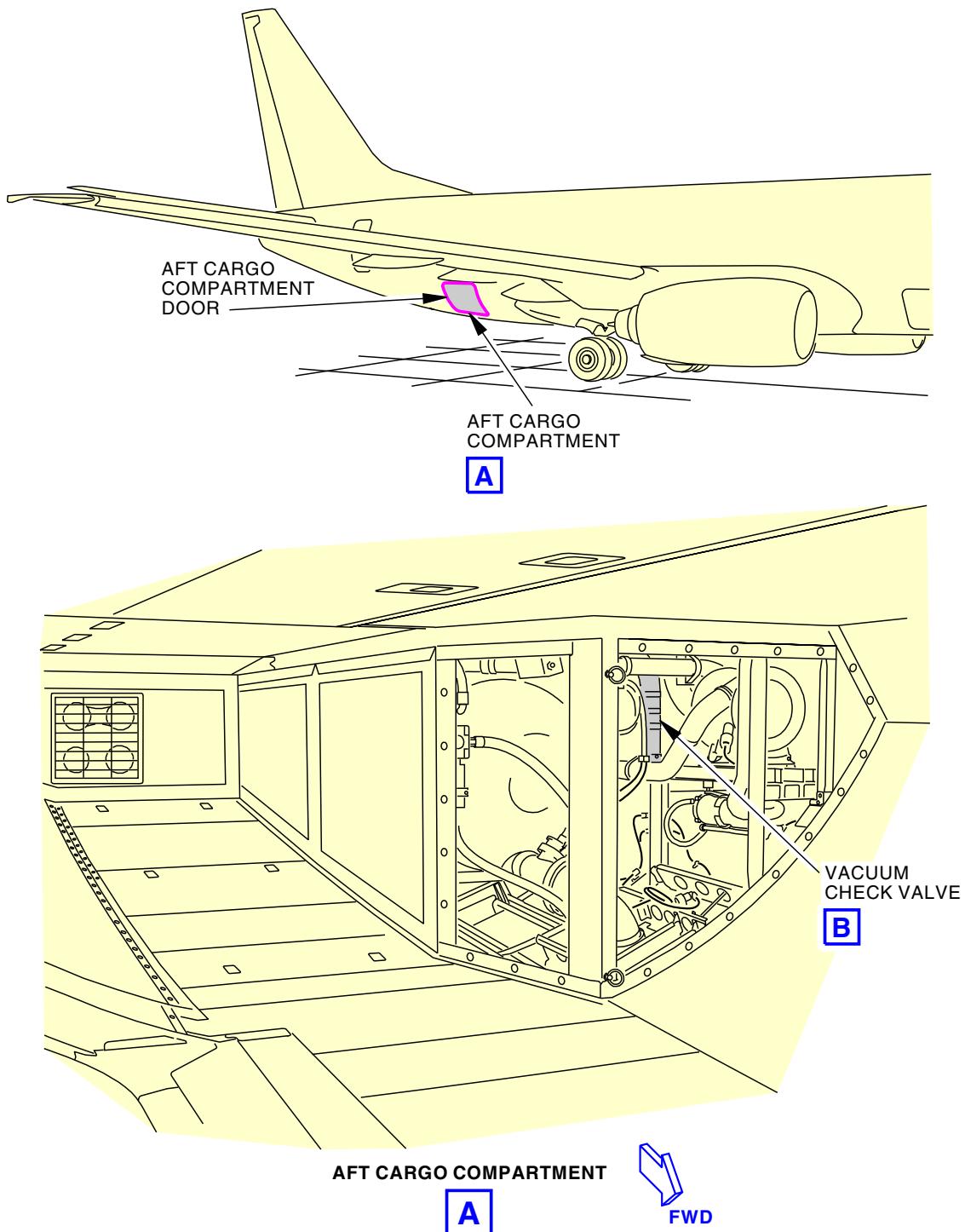
38-32-06

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D633A101-LOM



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F81233 S0006578702_V2

Vacuum Check Valve Installation
Figure 401/38-32-06-990-801 (Sheet 1 of 2)

EFFECTIVITY
LOM ALL

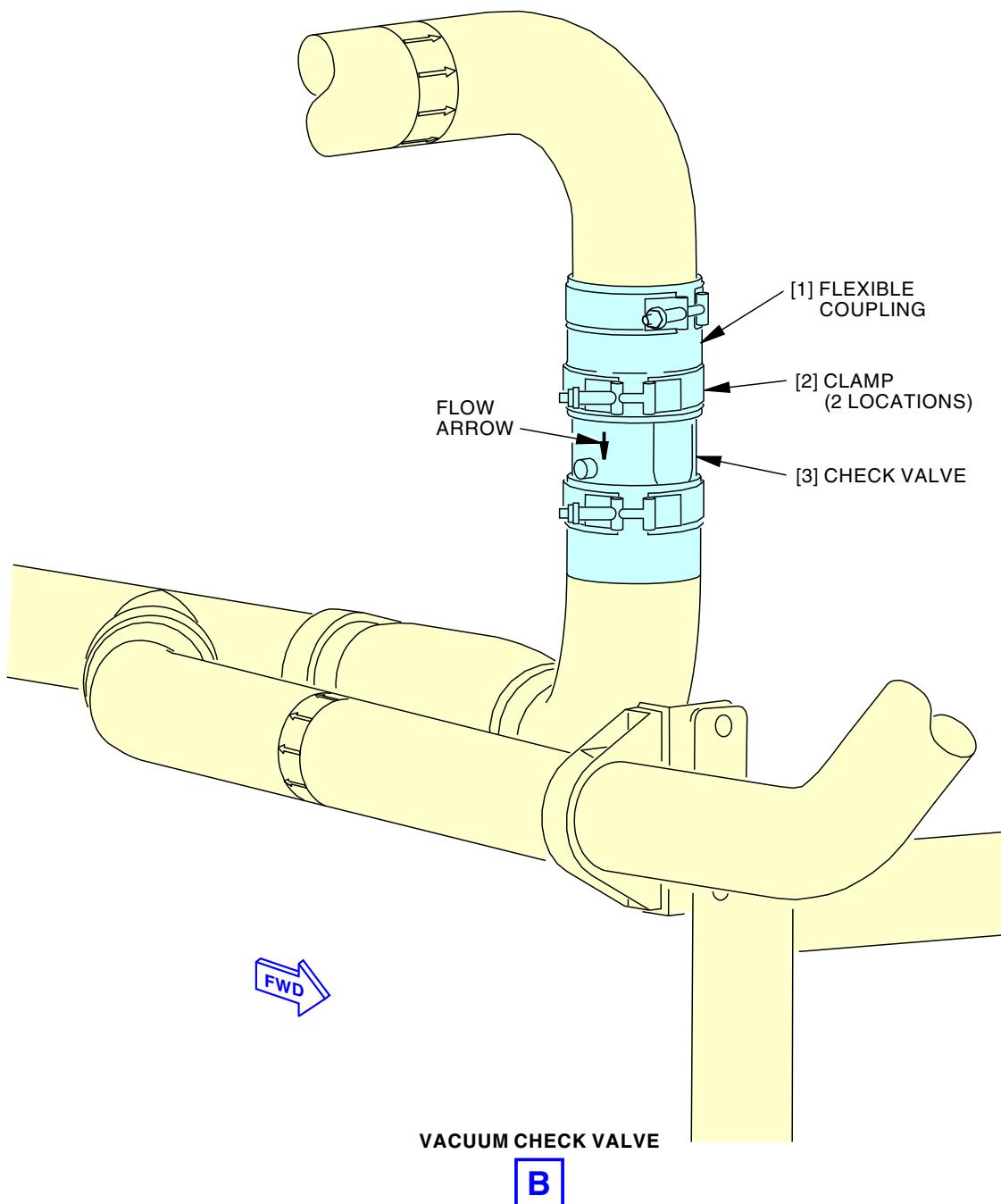
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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BOEING
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F81455 S0006578704_V2

Vacuum Check Valve Installation
Figure 401/38-32-06-990-801 (Sheet 2 of 2)

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

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AIRCRAFT MAINTENANCE MANUAL
WASTE TANK - MAINTENANCE PRACTICES

1. General

- A. This procedure has these tasks:
- (1) A removal of the waste tank
 - (2) An installation of the waste tank
 - (3) A cleaning of the waste tank.

TASK 38-32-07-000-801

2. Waste Tank Removal

(Figure 201)

A. References

Reference	Title
12-17-01-610-801	Waste Tank Servicing (P/B 301)
25-52-20-000-801	Waste Tank Enclosure Panel - Removal (P/B 401)
38-32-00-910-801	Standard Practices for Work with the Toilet Waste and Equipment (P/B 201)

B. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
141	Aft Cargo Compartment - Left

C. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
822	Aft Cargo Door

D. Prepare for the Removal

SUBTASK 38-32-07-610-001

- (1) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.

NOTE: Do not add the chemical precharge after you do the task to drain and flush the waste tanks.

SUBTASK 38-32-07-010-001

- (2) Open this access panel:

Number	Name/Location
822	Aft Cargo Door

SUBTASK 38-32-07-010-002

- (3) Do this task: Waste Tank Enclosure Panel - Removal, TASK 25-52-20-000-801.

SUBTASK 38-32-07-010-003

- (4) Remove the pins [11] to disconnect the post [12] for removal access.

SUBTASK 38-32-07-860-013

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
D	19	C01423	VACUUM WASTE

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SUBTASK 38-32-07-410-017

- (6) To get access to the P91 (P92) panel, open this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-32-07-860-010



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.

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

Power Distribution Panel Number 1, P91

Row	Col	Number	Name
F	2	C01389	VACUUM WASTE BLOWER

SUBTASK 38-32-07-910-001

- (8) Do this task: Standard Practices for Work with the Toilet Waste and Equipment, TASK 38-32-00-910-801.

E. Waste Tank Removal

SUBTASK 38-32-07-020-001

- (1) Disconnect the electrical connectors from the point level sensors.

SUBTASK 38-32-07-020-002



WARNING

BE CAREFUL WHEN YOU MOVE THE WASTE TANK. BECAUSE THE WASTE TANK WEIGHS MORE THAN 44 LB (20 KG), INJURIES TO PERSONNEL CAN OCCUR.



CAUTION

USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (2) Remove the nut [6] and washer [7] on the inboard side of the waste tank assembly [28] to disconnect the bonding jumper [5].

SUBTASK 38-32-07-020-003

- (3) Loosen the clamp [13] to disconnect the flexible coupling [14].

SUBTASK 38-32-07-020-004

- (4) Disconnect the rinse hoses from the rinse nozzles.

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SUBTASK 38-32-07-020-005

- (5) Remove the clamshells [4], sleeve [3], and packings [29] to disconnect the waste elbow [2] from the waste line.
 - (a) Discard the packing [29].

SUBTASK 38-32-07-010-004

- (6) Remove the vent tubes and waste tubes above the waste tank assembly [28] for removal access.

SUBTASK 38-32-07-020-006

- (7) Remove the clamshell [8], sleeve [9], and packing [10] to disconnect the waste tube from the waste tank outlet on the waste tank assembly [28].
 - (a) To remove the sleeve [9], do these steps:
 - 1) Obtain a wood or plastic block to allow tapping on the edge of the sleeve [9] with a hammer.
 - 2) Tap around the periphery, from forward or aft direction, whichever provides easiest access.
 - 3) Once the sleeve [9] has slid off one of the o-rings, remove the sleeve [9] by hand.
 - (b) Discard the packings [10].

SUBTASK 38-32-07-020-007

- (8) Loosen the strap [1] to disconnect the aft end of the waste tank assembly [28].

SUBTASK 38-32-07-020-008

- (9) Remove the bolt [20], washer [21], bushing [22], bushing [25], washer [23], and nut [24] to disconnect the tie rod assembly [26].

SUBTASK 38-32-07-020-010

- (10) Remove the nuts [30], washers [31], and bolts [32] to disconnect the bracket [33] from the forward mount.

SUBTASK 38-32-07-020-011



WARNING

BE CAREFUL WHEN YOU MOVE THE WASTE TANK. BECAUSE THE WASTE TANK WEIGHS MORE THAN 44 LB (20 KG), INJURIES TO PERSONNEL CAN OCCUR.

- (11) Remove the waste tank assembly [28] from its position.

SUBTASK 38-32-07-020-016

- (12) To replace the waste tank with a new waste tank, remove the bracket [33] from the waste tank assembly [28].
 - (a) Remove the bolts [16], nuts [18], washers [15], and washers [35] to disconnect the link [19] from the bracket [33] and waste tank assembly [28].
 - (b) Remove the bolt [17], nut [18], washers [15], and bracket [33] from the waste tank assembly [28].

———— END OF TASK ———

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TASK 38-32-07-400-801

3. Waste Tank Installation

(Figure 201)

A. References

Reference	Title
12-17-01-610-801	Waste Tank Servicing (P/B 301)
25-52-20-400-801	Waste Tank Enclosure Panel - Installation (P/B 401)
38-33-00-710-801	Auto Zero - Test (P/B 501)
38-33-00-740-802	LCM BITE Test (P/B 501)
SWPM 20-20-00	ELECTRICAL BONDING PROCESSES

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-614	Bonding Meters - Non-Intrinsically Safe (For use in outside Class I, Divisions I & II non-hazardous locations. For hazardous locations, use COM-1550). Part #: 247000 Supplier: 00426 Part #: 620LK Supplier: 1CRL2 Part #: BLR-0003-XX Supplier: KC432 Part #: BT51 Supplier: 00426 Part #: M1 Supplier: 3AD17 Part #: M1B Supplier: 3AD17 Part #: T477W (C15292) Supplier: 06659 Opt Part #: 247001 Supplier: 00426
SPL-9123	Sleeve Installation, Waste Tank Part #: C38003-1 Supplier: 81205
STD-1142	Equipment - Waste System Servicing

C. Consumable Materials

Reference	Description	Specification
B00065	Alcohol - Denatured, Ethyl (Ethanol)	AMS 3002 (Supersedes O-A-396)
D00504	Grease - Petrolatum	VV-P-236
D50007	Grease - Silicone-Based, Generic	
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	AMS3819 Class 1 Grade A or B Form 1 (Supersede BMS15-5 CL A)

D. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
10	Packing	38-32-51-04-070	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420
		38-32-51-06-050	LOM 422-434, 437-447, 450-999



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(Continued)

AMM Item	Description	AIPC Reference	AIPC Effectivity
10 (cont.)		38-32-51-06-255	LOM 422-434, 437-447, 450-999
28	Waste tank assembly	38-32-51-08-170	LOM ALL
29	Packing	38-32-51-08-015	LOM ALL

E. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
141	Aft Cargo Compartment - Left

F. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
145AL	Waste Service Door
822	Aft Cargo Door

G. Waste Tank Installation

SUBTASK 38-32-07-420-002

- (1) Do these steps before tank installation if the bracket [33] has been removed from the waste tank assembly [28]:
 - (a) Install the bolt [17], nut [18], washers [15], and bracket [33] to the waste tank assembly [28].
 - (b) Install the bolts [16], nuts [18], washers [15], and washers [35] to connect the link [19] to the bracket [33] and waste tank assembly [28].

SUBTASK 38-32-07-640-003

- (2) Apply grease, D00504, or silicone-based grease, D50007, to the new packings [10].

SUBTASK 38-32-07-420-020

- (3) Put the packings [10] in their position to connect the waste tube to the waste tank outlet of the waste tank assembly [28].

SUBTASK 38-32-07-420-021

- (4) Put the sleeve [9] on the flange of the waste tube.

SUBTASK 38-32-07-420-001



WARNING BE CAREFUL WHEN YOU MOVE THE WASTE TANK. BECAUSE THE WASTE TANK WEIGHS MORE THAN 44 LB (20 KG), INJURIES TO PERSONNEL CAN OCCUR.



CAUTION USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (5) Put the waste tank assembly [28] in its position and loosely install nuts [30], washers [31], and bolts [32].

SUBTASK 38-32-07-430-001

- (6) Adjust the clearance for the waste tank outlet connection, do these steps:

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- (a) Make sure that the waste tube is positioned correctly on the waste tank outlet flange.
- NOTE: The center of the continuous sensor mount should be at 36 degrees outboard, + or - 2 degrees, from vertical of the waste tank outlet. Accuracy of the waste tube position affects the clearance dimensions between the waste tube and the ball valve.
- (b) Adjust the tank in a forward or aft direction to obtain a nominal clearance of 0.15 in. (3.81 mm) or minimum clearance of 0.10 in. (2.54 mm) between the ends of the waste tube flange and the waste tank outlet flange.
- NOTE: If a minimum clearance of 0.10 in. (2.54 mm) is not obtained damage to the waste tank flange may occur. A maximum clearance is limited by the proper installation of the clamshell clamp. The clamp must not bind, or bend when installed. All of the clamp latches must close.

SUBTASK 38-32-07-430-003

- (7) Tighten the nuts [30].

SUBTASK 38-32-07-420-007

- (8) Install the clamshell [8] and sleeve [9] to connect the waste outlet.

- (a) To install the sleeve [9] with the sleeve, SPL-9123, do these steps:

NOTE: The sleeve, SPL-9123, is a P/N 14C02-56 clamp with one of the lips machined off to allow the clamp to be slipped on the sleeve while the clamp is closed.

NOTE: Use of the modified clamp tool, SPL-9123, is optional.

- 1) Attach the sleeve, SPL-9123, to the sleeve [9] and lock.

NOTE: The inner seat of the SPL-9123 tool must sit against the edge of the sleeve.

- 2) Carefully tap around the periphery of the tool until the sleeve [9] moves over the second O-ring.

NOTE: The sleeve and O-rings must not be damaged or deformed during this step.
Damage or deformation shows that alignment or clearances are not correct.

- 3) Remove the sleeve, SPL-9123.

- 4) Install the clamshell [8].

- (b) To install the sleeve [9] without the sleeve, SPL-9123 tool, do these steps:

- 1) Obtain a wood or a plastic block to allow tapping on the edge of the sleeve [9].

- 2) Carefully tap around the periphery of the sleeve [9] until it moves over the second O-ring.

NOTE: The sleeve and O-rings must not be damaged or deformed during this step.
Damage or deformation shows that alignment or clearances are not correct.

- 3) Install the clamshell [8].

SUBTASK 38-32-07-420-004

- (9) Install the bolt [20], washer [21], bushing [22], bushing [25], washer [23], and nut [24] to connect the tie rod assembly [26].

SUBTASK 38-32-07-430-002

- (10) Adjust the tie rod assembly [26] as required and lockwire the adjustment nut [34].

SUBTASK 38-32-07-420-005

- (11) Install the strap [1] for the aft end of the waste tank assembly [28].

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SUBTASK 38-32-07-640-002

- (12) Apply grease, D00504, or silicone-based grease, D50007, to the new packings [29].

SUBTASK 38-32-07-420-008

- (13) Put the packings [29] in their position to connect the waste elbows [2] to the vacuum waste lines.

SUBTASK 38-32-07-420-009

- (14) Install the sleeves [3] and clamshells [4] to connect the waste elbows [2].

SUBTASK 38-32-07-420-010

- (15) Connect the rinse hoses to the rinse nozzles.

SUBTASK 38-32-07-420-012

- (16) Tighten the clamp [13] to connect the flexible coupling [14].

SUBTASK 38-32-07-420-013

- (17) Connect the bonding jumper [5].

- (a) Use cotton wiper, G00034, moist in alcohol, B00065, to clean the mating surfaces of the nut [6], washer [7], and bonding jumper [5].
- (b) Dry with a clean cotton wiper, G00034.
- (c) Install the nut [6] and washer [7] on the inboard side of the waste tank to connect the bonding jumper [5].
- (d) Tighten the nut [6] to 33 in-lb (3.7 N·m) - 40 in-lb (4.5 N·m).

SUBTASK 38-32-07-760-001

- (18) Measure the electrical bonding resistance between the bonding jumper [5] and ground stud of the waste tank (SWPM 20-20-00).

- (a) Use non-intrinsically safe bonding meter, COM-614.
- (b) Make sure that the electrical resistance is less than 0.010 ohm (10 milliohm).

SUBTASK 38-32-07-420-014

- (19) Connect the electrical connectors to the point level sensors.

H. Waste Tank Installation Test

SUBTASK 38-32-07-860-004



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.

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(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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	2	C01389	VACUUM WASTE BLOWER

SUBTASK 38-32-07-410-010

- (2) Close this access panel:

Number Name/Location

117A	Electronic Equipment Access Door
------	----------------------------------

SUBTASK 38-32-07-860-014

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

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	19	C01423	VACUUM WASTE

SUBTASK 38-32-07-790-002

- (4) Check the waste tank drain line connections for leakage.

- (a) Open this access panel:

Number Name/Location

145AL	Waste Service Door
-------	--------------------

- (b) At the service panel, make sure that the control handle for the drain ball valve is in the closed position.
(c) Make sure that the cap for the waste drain fitting outlet is closed.
(d) Connect the water hose from the waste system servicing equipment, STD-1142, to the service panel drain valve assembly.
(e) Use the pump on the service cart to put about 50 gal (189 l) of water into the waste tank.
(f) Make sure that the waste tank drain line connections do not have a leak.

NOTE: You must wait for not less than 30 minutes after you put the water in the tank before you do this step.

SUBTASK 38-32-07-610-003

- (5) Do this task: LCM BITE Test, TASK 38-33-00-740-802.

SUBTASK 38-32-07-610-004

- (6) Do this task: Auto Zero - Test, TASK 38-33-00-710-801.

SUBTASK 38-32-07-610-002

- (7) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.

SUBTASK 38-32-07-610-005

- (8) Flush all toilets attached to the waste tank.

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SUBTASK 38-32-07-790-001

- (9) Make sure that there are no leaks at the waste tank connections.

I. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-07-410-001

- (1) Install the pins [11] to connect the post [12].

SUBTASK 38-32-07-410-002



WARNING

SEAL THE CARGO COMPARTMENT WITH THE LINING. OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN YOU INSTALL THE LINING. IF YOU INSTALL THE LINING INCORRECTLY, THE SMOKE CAN GET INTO THE PASSENGER COMPARTMENT DURING A FIRE.

- (2) Do this task: Waste Tank Enclosure Panel - Installation, TASK 25-52-20-400-801.

SUBTASK 38-32-07-410-003

- (3) Close this access panel:

Number Name/Location

822 Aft Cargo Door

———— END OF TASK ————

TASK 38-32-07-100-801

4. Waste Tank Cleaning

(Figure 201)

A. General

- (1) This task has these methods for cleaning the waste tank:
- Clean the waste tank (in the airplane) with the cleaning tool.
 - Soak the waste tank with HOT water plus a cleaning solution.

B. References

Reference	Title
12-17-01-610-801	Waste Tank Servicing (P/B 301)
25-52-20-000-801	Waste Tank Enclosure Panel - Removal (P/B 401)
25-52-20-400-801	Waste Tank Enclosure Panel - Installation (P/B 401)
38-32-00-910-801	Standard Practices for Work with the Toilet Waste and Equipment (P/B 201)
38-33-01-000-801	Waste Tank Point Level Sensor Removal (P/B 401)
38-33-01-400-801	Waste Tank Point Level Sensor Installation (P/B 401)

C. Tools/Equipment

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

Reference	Description
SPL-1944	Cleaner - Lavatory Waste Tank Part #: A38009-11 Supplier: 81205
STD-1088	Source - Cold Water, Regulated, 0-60 PSIG
STD-1142	Equipment - Waste System Servicing

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D. Consumable Materials

Reference	Description	Specification
B00638	Cleaner - Acidic Liquid - Honey Bee 60 (McGean-Rohco)	
B50117	Detergent - General	
B50329	Cleaner - Acidic Liquid - Honey Bee 60 T	
B50330	Cleaner - Acidic Liquid - Honey Bee 60 TNP	

E. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
141	Aft Cargo Compartment - Left

F. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
145AL	Waste Service Door
822	Aft Cargo Door

G. Prepare for the Cleaning

SUBTASK 38-32-07-610-006



WARNING

ALWAYS PUT ON RUBBER GLOVES BEFORE YOU DO MAINTENANCE ON THE TOILET SYSTEM, OR TOUCH PARTS THAT TOUCHED WASTE MATERIAL. FULLY CLEAN YOUR HANDS WITH SOAP AND WATER AFTER MAINTENANCE IS COMPLETED. THE TOILET WASTE CAN CAUSE ILLNESS AND INJURIES TO PERSONNEL.



WARNING

DO NOT TOUCH THE POTABLE WATER SYSTEM AFTER YOU DO SERVICING OR MAINTENANCE TO THE WASTE SYSTEM. AT NO TIME LET THE SAME PERSONNEL DO WORK ON THE TWO SYSTEMS AT THE SAME TIME. CHANGE YOUR CLOTHES, AND CLEAN YOUR HANDS FULLY WITH SOAP AND WATER BEFORE YOU TOUCH THE POTABLE WATER SYSTEM. CONTAMINATION OF THE POTABLE WATER SYSTEM CAN CAUSE ILLNESS AND INJURIES TO PERSONS THAT DRINK THE WATER.



WARNING

DO NOT TOUCH THE TOILET COMPONENTS OR MOVE OR SEND THEM TO A DIFFERENT LOCATION UNTIL THEY ARE CLEAN. DIRTY TOILET COMPONENTS CAN CAUSE ILLNESS AND INJURIES TO PERSONNEL.

- (1) Do this task to drain and flush the waste tank, but do not add the chemical precharge fluid:
Waste Tank Servicing, TASK 12-17-01-610-801.

SUBTASK 38-32-07-010-005

- (2) Open this access panel:

Number	Name/Location
822	Aft Cargo Door



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SUBTASK 38-32-07-010-006



CAUTION

USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (3) Do this task: Waste Tank Enclosure Panel - Removal, TASK 25-52-20-000-801.

SUBTASK 38-32-07-860-016

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

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	19	C01423	VACUUM WASTE

SUBTASK 38-32-07-010-013

- (5) To get access to the P91 (P92) panel, open this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-32-07-860-011



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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	2	C01389	VACUUM WASTE BLOWER

SUBTASK 38-32-07-910-002

- (7) Do this task: Standard Practices for Work with the Toilet Waste and Equipment, TASK 38-32-00-910-801.

H. Waste Tank Cleaning With the Cleaner Tool

SUBTASK 38-32-07-480-001

- (1) Connect the drain hose as follows:

- (a) Open this access panel:

Number Name/Location

145AL Waste Service Door

- (b) Open the cap on the waste drain valve assembly.

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- (c) Connect the waste drain hose from the service waste system servicing equipment, STD-1142, to the waste drain valve assembly.
- (d) Open the waste drain valve assembly.
- (e) Pull a handle to open the waste drain ball valve.

SUBTASK 38-32-07-480-002



CAUTION

USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (2) To install the tank cleaner at the point level sensor, do these steps:

- (a) Do this task: Waste Tank Point Level Sensor Removal, TASK 38-33-01-000-801.
 - (b) Install the tank lavatory waste tank cleaner, SPL-1944.

SUBTASK 38-32-07-420-015



CAUTION

USE A CLEANING SOLUTION FROM THE WASTE-TANK TEST SPECIFICATION. OTHER CLEANING SOLUTIONS CAN CAUSE DAMAGE TO THE TANK.

- (3) Connect a water source (0-60 PSIG), STD-1088, to the tank cleaner.

SUBTASK 38-32-07-140-001

- (4) Make sure that the water pressure is a minimum of 45 psig (310 kPa) to the tank cleaner tool.

SUBTASK 38-32-07-140-002



CAUTION

KEEP THE WATER TEMPERATURE AND PRESSURE BELOW THE LIMITS. IF YOU USE WATER AT A HIGHER TEMPERATURE OR PRESSURE, YOU CAN CAUSE DAMAGE TO THE TANK.

- (5) Make sure that water pressure is not more than 60 psig (414 kPa) and that water temperature is not more than 160°F (71°C).

NOTE: Hot water and higher water pressure will clean the waste tank faster.

SUBTASK 38-32-07-170-001

- (6) Operate the tank cleaner as follows:

- (a) Supply water pressure and flow to the tank cleaner tool.

NOTE: It is recommended that you operate the tank cleaner for approximately 60 minutes.

- (b) Operate the tank cleaner for a minimum 15 minutes.

- (c) Make sure that the waste system servicing equipment, STD-1142, has sufficient capacity to contain the waste water.

- (d) Stop the operation of the tank cleaner.

SUBTASK 38-32-07-080-001

- (7) Disconnect the water supply line from the tank cleaner.

SUBTASK 38-32-07-080-002

- (8) To remove the tank cleaner at the point level sensor, do these steps:

- (a) Remove the tank cleaner.

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- (b) Do a visual check of the inner side of the waste tank to make sure that the waste tank is clean.
 - 1) If the inner side of the waste tank is not clean, do this procedure again.
- (c) If the inner side of the waste tank is clean, do this task: Waste Tank Point Level Sensor Installation, TASK 38-33-01-400-801.

SUBTASK 38-32-07-080-003

- (9) Disconnect the drain line as follows:
 - (a) Push the handle to close the waste drain ball valve.
 - (b) Disconnect the waste drain hose from the waste drain valve assembly.
 - (c) Close the waste drain valve assembly.
 - (d) Close the cap on the waste drain valve assembly.
 - (e) Close this access panel:

<u>Number</u>	<u>Name/Location</u>
145AL	Waste Service Door

- (f) Close this access panel:

<u>Number</u>	<u>Name/Location</u>
822	Aft Cargo Door

I. Waste Tank Soaking With Hot Water Plus a Cleaning Solution

SUBTASK 38-32-07-680-001

- (1) Drain the waste system servicing equipment, STD-1142, of all chemical precharge.

SUBTASK 38-32-07-480-003

- (2) Connect the drain hose as follows:
 - (a) Open this access panel:

<u>Number</u>	<u>Name/Location</u>
145AL	Waste Service Door
 - (b) Open the cap on the waste drain valve assembly.
 - (c) Connect the waste drain hose from the toilet service cart to the waste drain valve assembly.
 - (d) Open the waste drain valve assembly.
 - (e) Make sure that the waste drain ball valve is in the closed position.

SUBTASK 38-32-07-480-004

- (3) Connect the rinse hose as follows:
 - (a) Open the cap on the rinse fitting assembly.
 - (b) Connect a rinse hose from the waste system servicing equipment, STD-1142, to the rinse fitting assembly.

SUBTASK 38-32-07-610-007



CAUTION USE A CLEANING SOLUTION FROM THE WASTE-TANK TEST SPECIFICATION. OTHER CLEANING SOLUTIONS CAN CAUSE DAMAGE TO THE TANK.

- (4) Fill the waste system servicing equipment, STD-1142, with a mixture of water and soap or cleaner solution.

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- (a) Make the cleaner solution with one of the detergents/cleaners that follow:
- 1) Soap - general detergent, B50117 (commercially available)
NOTE: If you use a soap solution, it must not foam.
 - 2) Honey Bee 60 cleaner, B00638, Honey Bee 60 T cleaner, B50329, or Honey Bee 60 TNP cleaner, B50330.
- (b) Dilute the cleaner with water per the manufacturers instructions.

SUBTASK 38-32-07-170-002



CAUTION

FILL THE WASTE TANK ONLY TO THE TOP OF THE WASTE TANK. TOO MUCH FLUID IN THE WASTE TANK CAN CAUSE DAMAGE TO THE VACUUM BLOWER.

- (5) Fill the waste tank with 60 gallons of the disinfectant solution.



CAUTION

KEEP THE WATER TEMPERATURE AND PRESSURE BELOW THE LIMITS. IF YOU USE WATER AT A HIGHER TEMPERATURE OR PRESSURE, YOU CAN CAUSE DAMAGE TO THE TANK.

- (a) Make sure that water pressure is not more than 60 psig (414 kPa) and that water temperature is not more than 160°F (71°C).
- (b) Make sure that the water pressure is a minimum of 30 psig (207 kPa).
NOTE: If the water pressure is less than the minimum pressure, the waste tank will not get clean.

SUBTASK 38-32-07-170-003

- (6) Let the cleaning solution stay in the waste tank for 30 to 60 minutes.

SUBTASK 38-32-07-610-008

- (7) Do this task to drain and flush the waste tank, but do not add the chemical precharge fluid: Waste Tank Servicing, TASK 12-17-01-610-801.

SUBTASK 38-32-07-210-001

- (8) Do a visual check of the inner side of the waste tank to make sure that the waste tank is clean.
 - (a) If the inner side of the waste tank is not clean, do this procedure again.
 - (b) If the inner side of the waste tank is clean, then continue.

J. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-07-860-012



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.

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(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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	2	C01389	VACUUM WASTE BLOWER

SUBTASK 38-32-07-410-019

- (2) Close this access panel:

Number Name/Location

117A	Electronic Equipment Access Door
------	----------------------------------

SUBTASK 38-32-07-860-015

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

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	19	C01423	VACUUM WASTE

SUBTASK 38-32-07-610-009

- (4) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.

SUBTASK 38-32-07-410-004



WARNING

SEAL THE CARGO COMPARTMENT WITH THE LINING. OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN YOU INSTALL THE LINING. IF YOU INSTALL THE LINING INCORRECTLY, THE SMOKE CAN GO INTO THE PASSENGER COMPARTMENT DURING A FIRE. THIS CAN CAUSE INJURY TO PERSONNEL.

- (5) Do this task: Waste Tank Enclosure Panel - Installation, TASK 25-52-20-400-801.

SUBTASK 38-32-07-410-005

- (6) Close this access panel:

Number Name/Location

822	Aft Cargo Door
-----	----------------

SUBTASK 38-32-07-410-006

- (7) Close this access panel:

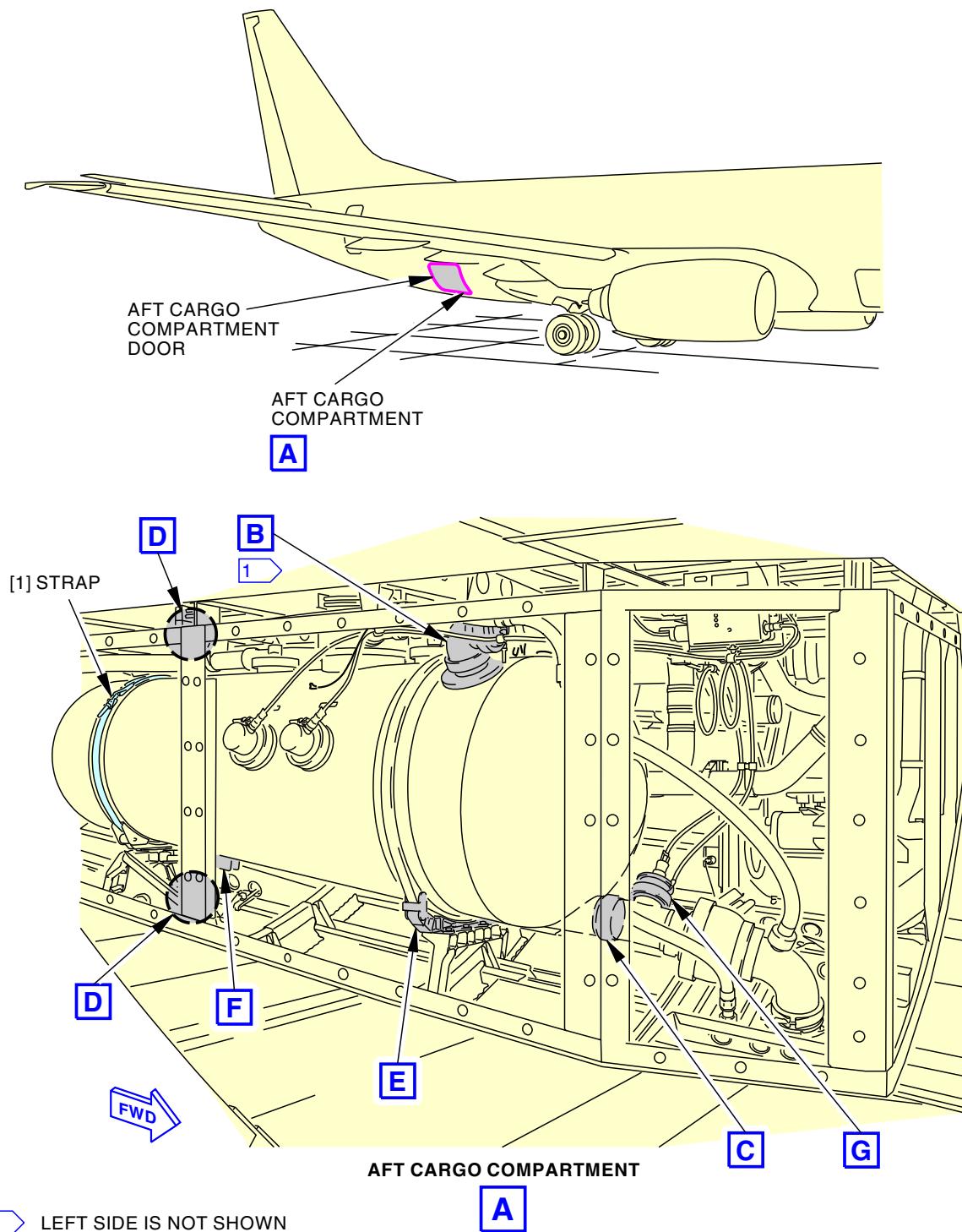
Number Name/Location

145AL	Waste Service Door
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———— END OF TASK ————

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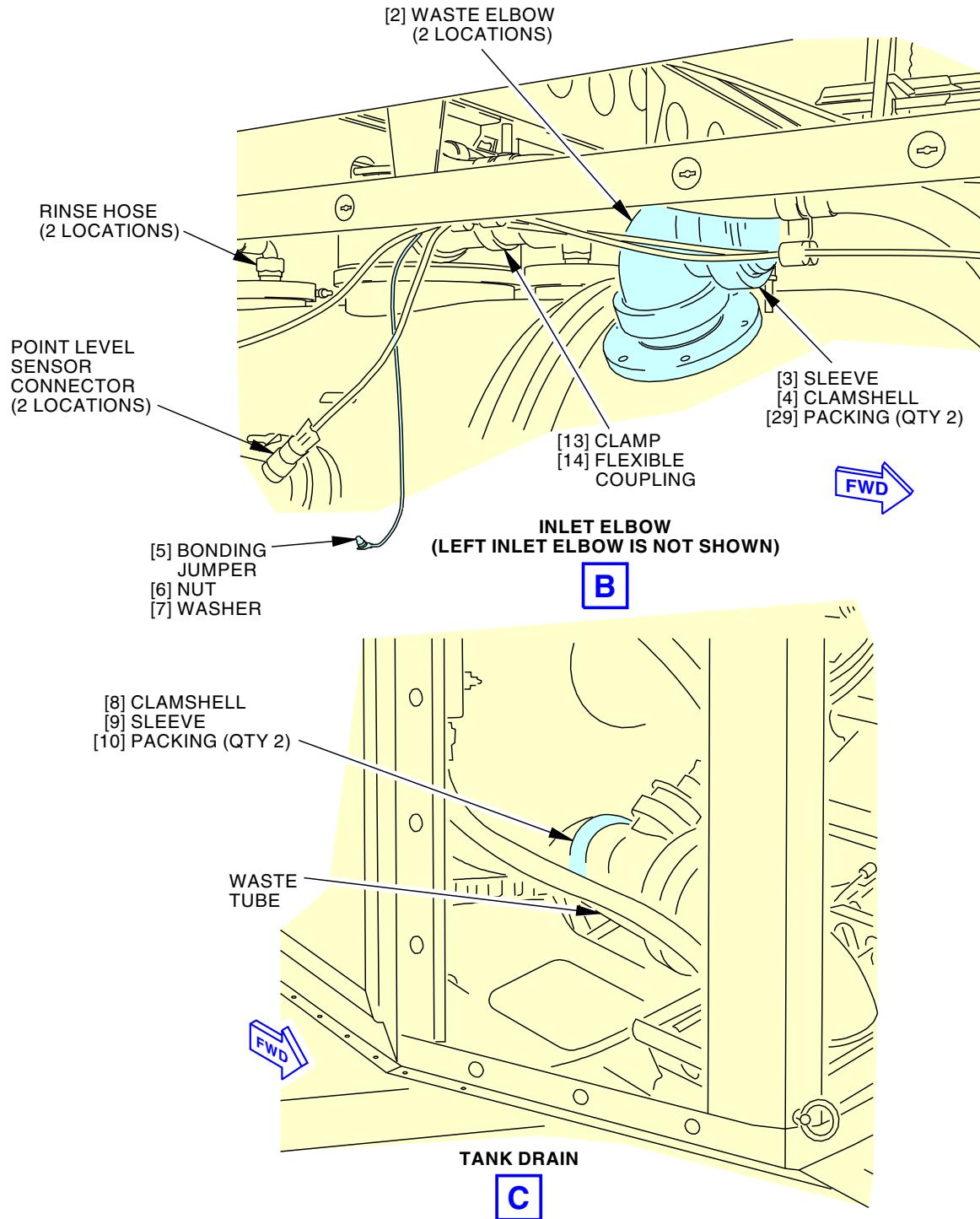


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Waste Tank Installation
Figure 201/38-32-07-990-801 (Sheet 1 of 5)

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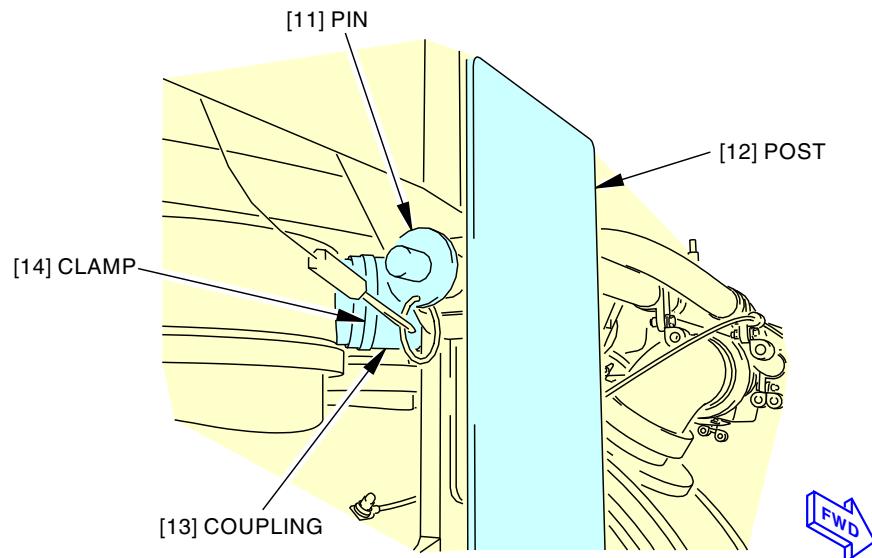
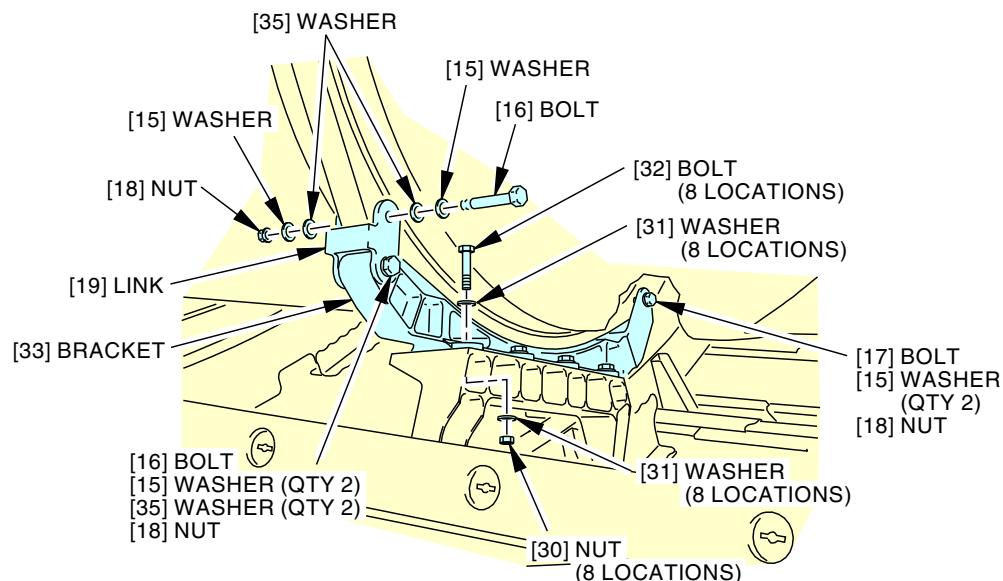
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Waste Tank Installation
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**POST RELEASE PIN
(EXAMPLE)**
D

FORWARD MOUNT
E

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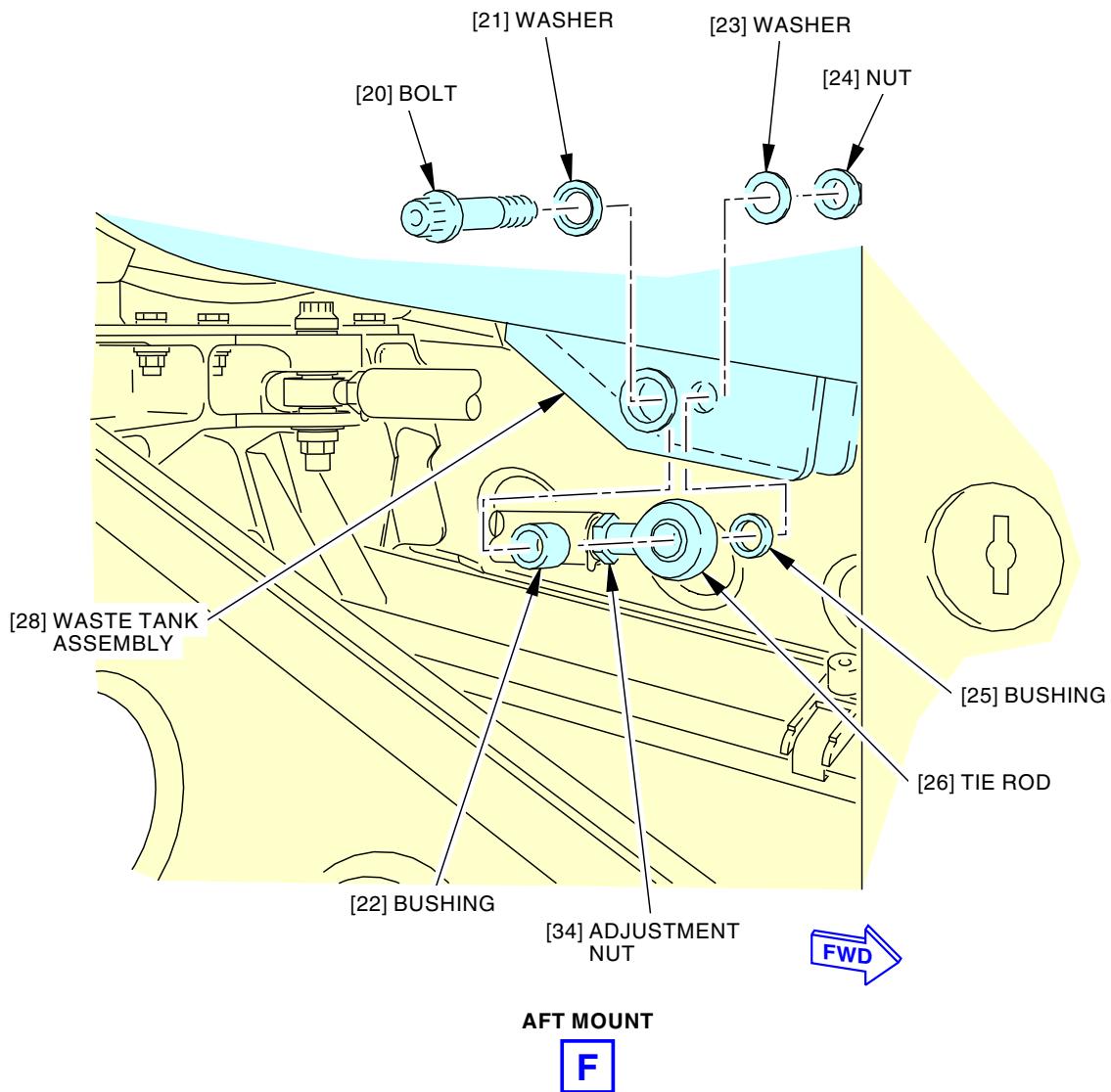
Waste Tank Installation
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Waste Tank Installation
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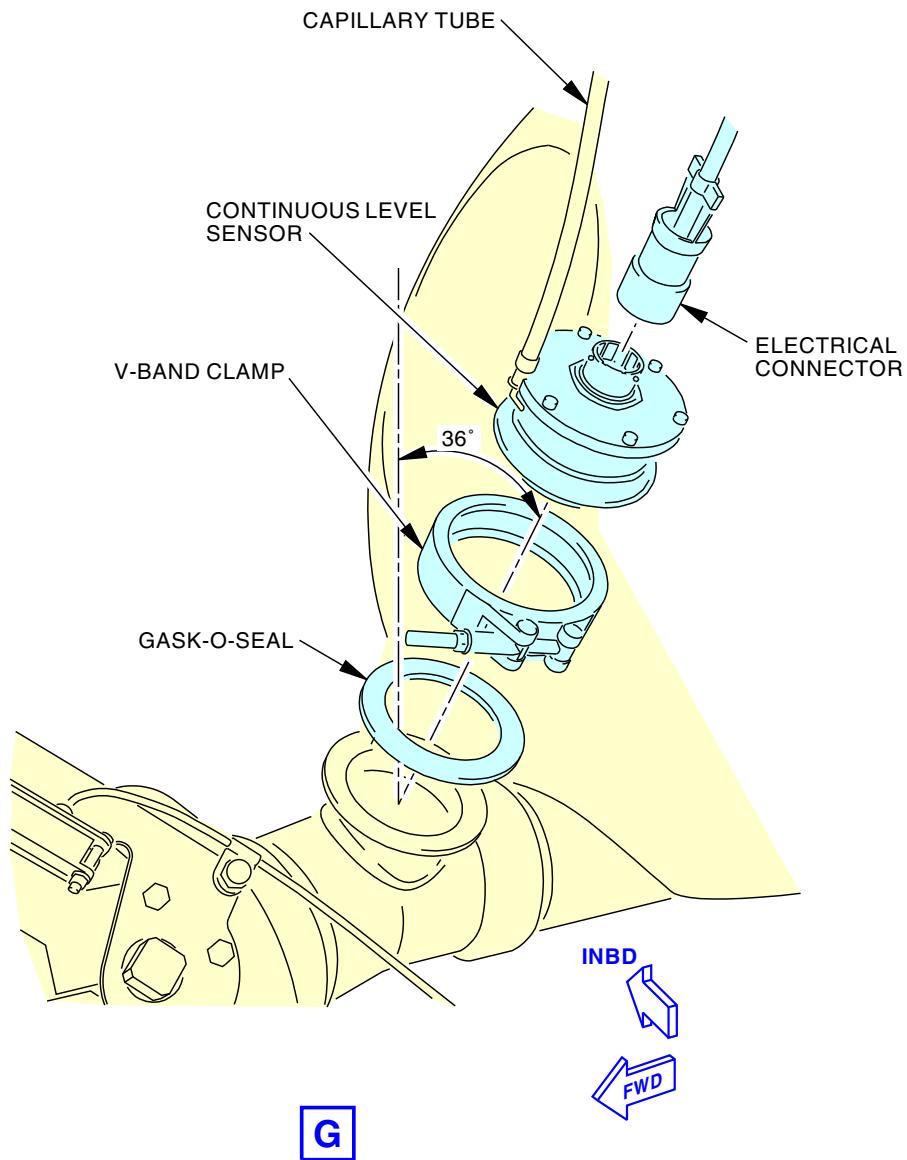
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WASTE DRAIN VALVE ASSEMBLY - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
 - (1) A removal of the drain valve
 - (2) An installation of the drain valve.
- B. The Waste Drain Valve Assembly is referred to as the Drain Valve in this procedure.

TASK 38-32-08-000-801

2. Waste Drain Valve Assembly Removal

(Figure 401)

A. References

<u>Reference</u>	<u>Title</u>
12-17-01-610-801	Waste Tank Servicing (P/B 301)
25-52-20-000-801	Waste Tank Enclosure Panel - Removal (P/B 401)

B. Location Zones

<u>Zone</u>	<u>Area</u>
141	Aft Cargo Compartment - Left

C. Access Panels

<u>Number</u>	<u>Name/Location</u>
146AR	Water Service Door
822	Aft Cargo Door

D. Prepare for the Removal

SUBTASK 38-32-08-610-001

- (1) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.

NOTE: Do not add the chemical precharge after you do the task to drain and flush the waste tanks.

SUBTASK 38-32-08-010-001

- (2) Open this access panel:

<u>Number</u>	<u>Name/Location</u>
822	Aft Cargo Door

SUBTASK 38-32-08-010-002

- (3) Do this task: Waste Tank Enclosure Panel - Removal, TASK 25-52-20-000-801.

SUBTASK 38-32-08-010-003

- (4) Open this access panel:

<u>Number</u>	<u>Name/Location</u>
146AR	Water Service Door

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E. Waste Drain Valve Assembly Removal

SUBTASK 38-32-08-020-001



CAUTION

USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (1) Remove the clamp [4] to disconnect the waste elbow tube [5] from the drain valve [1].

SUBTASK 38-32-08-020-002

- (2) Remove the gask-o-seal [6] between the waste elbow tube [5] from the drain valve [1].

SUBTASK 38-32-08-020-003

- (3) Remove the bolts [3] from the drain valve [1].

SUBTASK 38-32-08-020-004

- (4) Remove the drain valve [1].

SUBTASK 38-32-08-020-005

- (5) Remove the toilet drain gasket [2] from the drain valve [1] or the waste tank service panel.

SUBTASK 38-32-08-020-006

- (6) If it is damaged, remove the ring assembly [7].

———— END OF TASK ————

TASK 38-32-08-400-801

3. **Waste Drain Valve Assembly Installation**

(Figure 401)

A. References

Reference	Title
12-17-01-610-801	Waste Tank Servicing (P/B 301)
25-52-20-400-801	Waste Tank Enclosure Panel - Installation (P/B 401)

B. Tools/Equipment

Reference	Description
STD-1142	Equipment - Waste System Servicing

C. Consumable Materials

Reference	Description	Specification
A00247	Sealant - Pressure And Environmental - Chromate Type	BMS5-95

D. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Valve	38-32-51-10-090	LOM ALL
2	Gasket	38-32-51-10-010	LOM ALL
6	Seal	38-32-51-04-175	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420
		38-32-51-06-260	LOM 422-434, 437-447, 450-999

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E. Location Zones

Zone	Area
141	Aft Cargo Compartment - Left

F. Access Panels

Number	Name/Location
146AR	Water Service Door
822	Aft Cargo Door

G. Waste Drain Valve Assembly Installation

SUBTASK 38-32-08-420-008



USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (1) If the ring assembly [7] was removed, apply a fay surface seal with sealant, A00247 to the waste tank service panel.

SUBTASK 38-32-08-420-009

- (2) If it was removed, put the ring assembly [7] in its position.

SUBTASK 38-32-08-390-001

- (3) Apply a fay surface seal with sealant, A00247 to both sides of the toilet drain gasket [2].

SUBTASK 38-32-08-420-003

- (4) Install the toilet drain gasket [2] to the waste tank service panel.

SUBTASK 38-32-08-390-002

- (5) Apply a fay surface seal with sealant, A00247 to the drain valve [1].

SUBTASK 38-32-08-420-004

- (6) Put the drain valve [1] in its position.

SUBTASK 38-32-08-420-005

- (7) Install the bolts [3] for the drain valve [1].

SUBTASK 38-32-08-420-006

- (8) Install the gask-o-seal [6] between the waste elbow tube [5] and the drain valve [1].

SUBTASK 38-32-08-420-007

- (9) Install the clamp [4] to connect the waste elbow tube [5] to the drain valve [1].

H. Waste Drain Valve Assembly Installation Test

SUBTASK 38-32-08-610-003

- (1) Open the cap on the rinse fitting assembly.

SUBTASK 38-32-08-610-004

- (2) Connect a rinse water hose from the service waste system servicing equipment, STD-1142 to the rinse fitting assembly.

SUBTASK 38-32-08-170-001

- (3) Fill the waste tank with 30 gal (114 l) to 50 gal (189 l) of water.

SUBTASK 38-32-08-860-001

- (4) Pull the handle to open the waste drain ball valve for the waste tank.

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SUBTASK 38-32-08-860-002

- (5) Open the cap for the drain valve assembly.

SUBTASK 38-32-08-790-001

- (6) Let the water sit on the drain valve for 5 minutes.

SUBTASK 38-32-08-790-002

- (7) Examine the drain valve and the connections for leakage.

SUBTASK 38-32-08-610-005

- (8) Connect the drain hose from the service truck to the drain valve.

I. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-08-610-006

- (1) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.

SUBTASK 38-32-08-410-001



WARNING

SEAL THE CARGO COMPARTMENT WITH THE LINING. OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN YOU INSTALL THE LINING. IF YOU INSTALL THE LINING INCORRECTLY, THE FIRE EXTINGUISHING AGENT OR SMOKE CAN GET INTO THE PASSENGER COMPARTMENT DURING A FIRE.

- (2) Do this task: Waste Tank Enclosure Panel - Installation, TASK 25-52-20-400-801.

SUBTASK 38-32-08-410-002

- (3) Close this access panel:

Number Name/Location

822 Aft Cargo Door

SUBTASK 38-32-08-410-003

- (4) Close this access panel:

Number Name/Location

146AR Water Service Door

———— END OF TASK ————

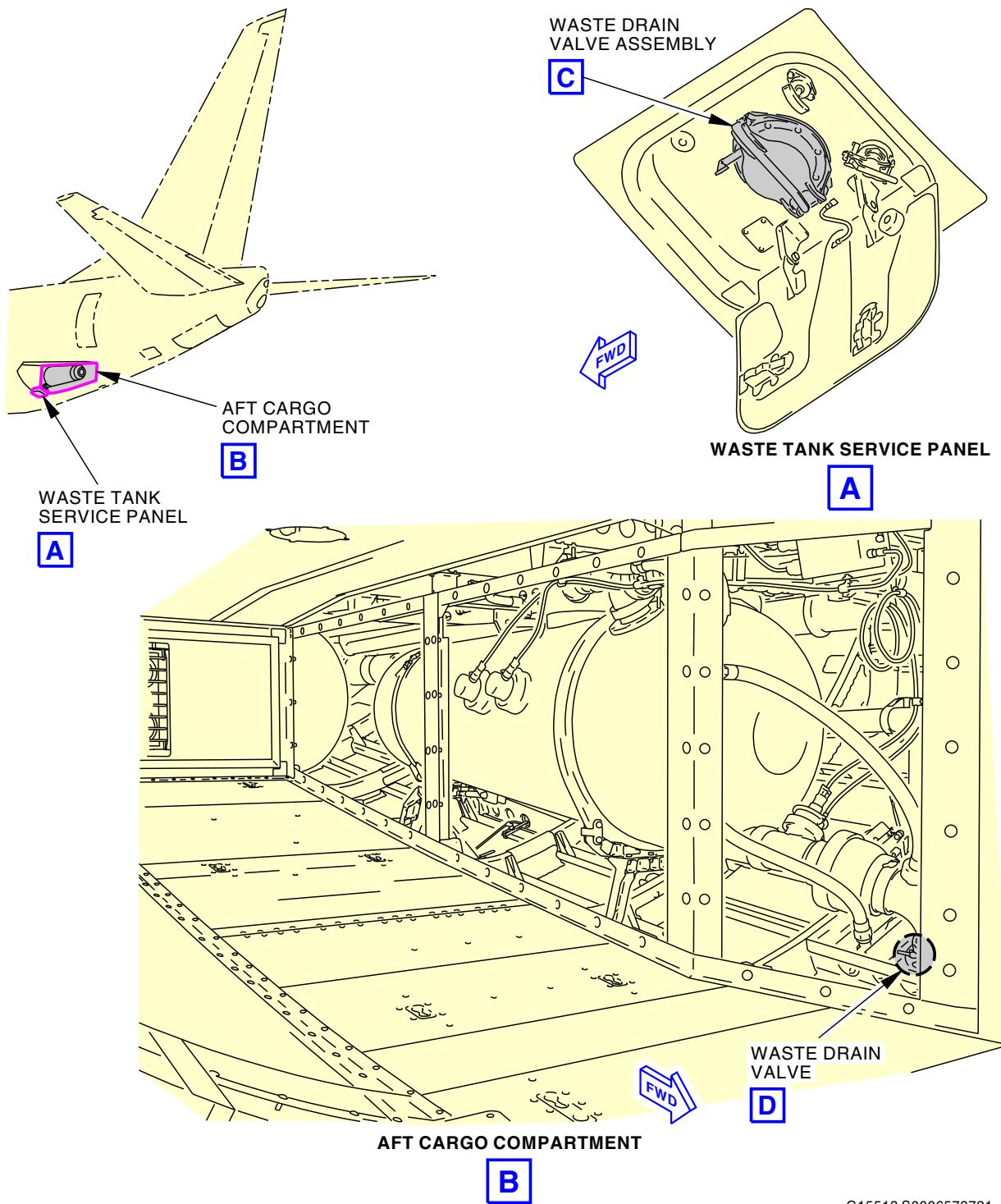
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Waste Drain Valve Assembly Installation
Figure 401/38-32-08-990-801 (Sheet 1 of 2)

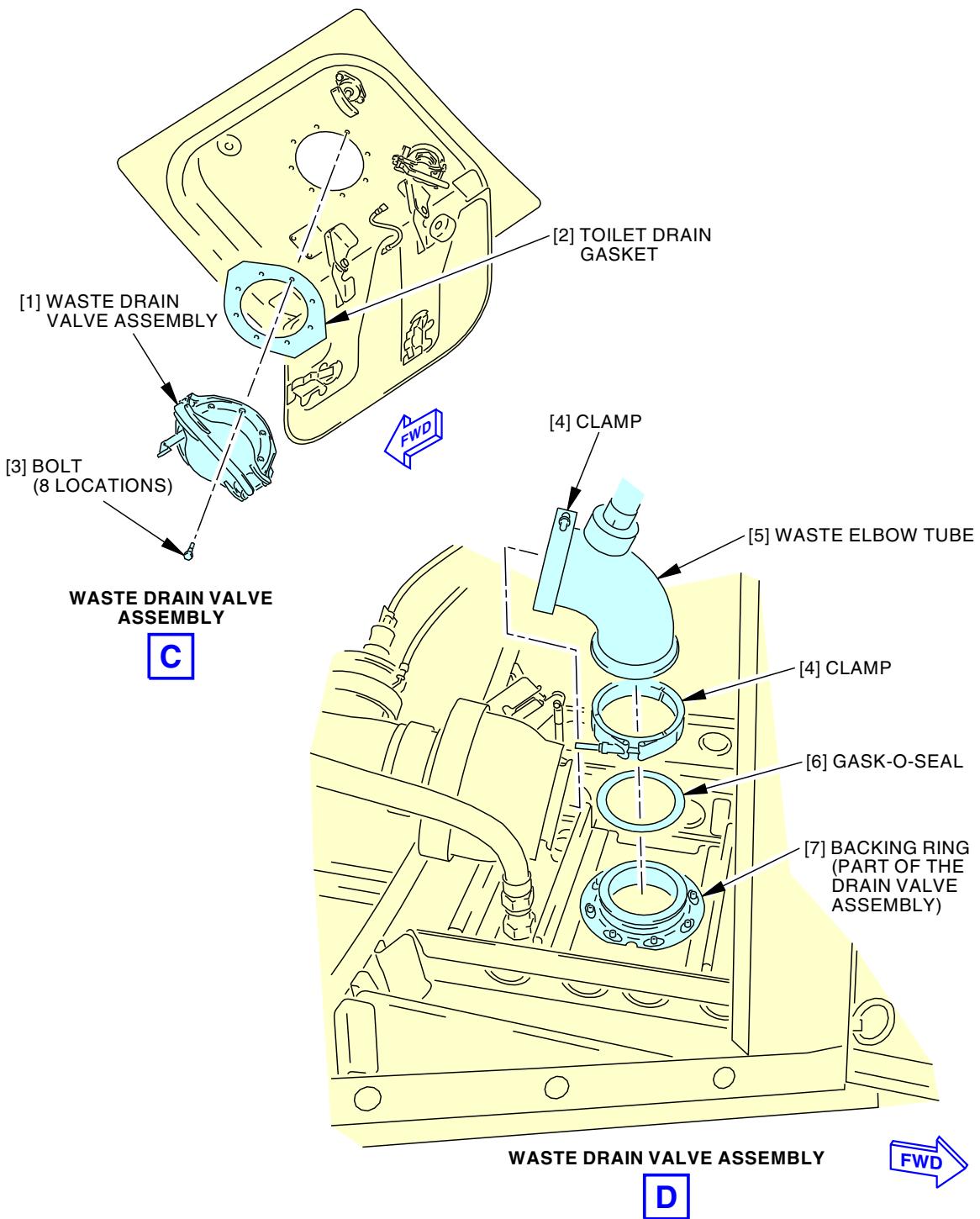
EFFECTIVITY
LOM ALL

38-32-08

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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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Waste Drain Valve Assembly Installation
Figure 401/38-32-08-990-801 (Sheet 2 of 2)

EFFECTIVITY
LOM ALL

38-32-08

D633A101-LOM

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

WASTE TANK RINSE FITTING ASSEMBLY - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
- (1) A removal of the waste tank rinse fitting assembly
 - (2) An installation of the waste tank rinse fitting assembly.

TASK 38-32-09-000-801

2. Waste Tank Rinse Fitting Assembly Removal

(Figure 401)

A. References

Reference	Title
12-17-01-610-801	Waste Tank Servicing (P/B 301)
25-52-20-000-801	Waste Tank Enclosure Panel - Removal (P/B 401)
30-71-04-000-801	Waste Tank Rinse Fitting Heater Removal (P/B 401)

B. Location Zones

Zone	Area
141	Aft Cargo Compartment - Left

C. Access Panels

Number	Name/Location
145AL	Waste Service Door
822	Aft Cargo Door

D. Prepare for the Removal

SUBTASK 38-32-09-610-001

- (1) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.

NOTE: Do not add the chemical precharge after you do the task to drain and flush the waste tanks.

SUBTASK 38-32-09-010-001

- (2) Open this access panel:

Number	Name/Location
822	Aft Cargo Door

SUBTASK 38-32-09-010-002

- (3) Do this task: Waste Tank Enclosure Panel - Removal, TASK 25-52-20-000-801.

SUBTASK 38-32-09-010-003

- (4) Open this access panel:

Number	Name/Location
145AL	Waste Service Door

EFFECTIVITY
LOM ALL

38-32-09



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E. Waste Tank Rinse Fitting Assembly Removal

SUBTASK 38-32-09-020-005

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
D	18	C01463	WASTE/WTR LINE HEATERS

SUBTASK 38-32-09-020-001



CAUTION USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (2) Disconnect the rinse fitting heater M1922 [2], Waste Tank Rinse Fitting Heater Removal, TASK 30-71-04-000-801, and rinse hose [1] from the rinse fitting assembly [3].

SUBTASK 38-32-09-020-003

- (3) Remove the bolts [5] that attaches the rinse fitting assembly [3] to the rinse fitting plate assembly [4].

SUBTASK 38-32-09-020-004

- (4) Remove the rinse fitting assembly [3].

SUBTASK 38-32-09-210-001

- (5) Do a check of the rinse fitting plate assembly [4].

- (a) If the rinse fitting plate assembly [4] is not serviceable, then remove the plate assembly [4].

————— END OF TASK ————

TASK 38-32-09-400-801

3. **Waste Tank Rinse Fitting Assembly Installation**

(Figure 401)

A. References

Reference	Title
12-17-01-610-801	Waste Tank Servicing (P/B 301)
25-52-20-400-801	Waste Tank Enclosure Panel - Installation (P/B 401)
30-71-04-400-801	Waste Tank Rinse Fitting Heater Installation (P/B 401)

B. Tools/Equipment

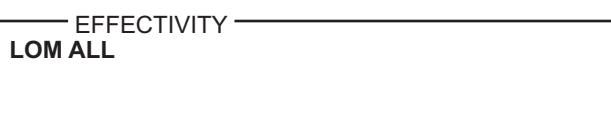
Reference	Description
STD-1142	Equipment - Waste System Servicing

C. Consumable Materials

Reference	Description	Specification
A00247	Sealant - Pressure And Environmental - Chromate Type	BMS5-95

D. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
3	Fitting assembly	38-32-51-10-125	LOM ALL
4	Plate assembly	38-32-51-10-030	LOM ALL



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E. Location Zones

Zone	Area
141	Aft Cargo Compartment - Left

F. Access Panels

Number	Name/Location
145AL	Waste Service Door
822	Aft Cargo Door

G. Waste Tank Rinse Fitting Assembly Installation

SUBTASK 38-32-09-390-001



CAUTION USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (1) If the rinse fitting plate assembly [4] is not in its position, apply a fay surface seal with sealant, A00247 to the rinse fitting plate assembly [4].

SUBTASK 38-32-09-420-001

- (2) Put the rinse fitting plate assembly [4] in its position.

SUBTASK 38-32-09-390-002

- (3) Apply a fay surface seal with sealant, A00247 to the rinse fitting assembly [3].

SUBTASK 38-32-09-420-002

- (4) Put the rinse fitting assembly [3] in its position.

SUBTASK 38-32-09-420-003

- (5) Install the bolts [5] for the rinse fitting assembly [3].

SUBTASK 38-32-09-420-004

- (6) Install the rinse hose [1] and rinse hose heater [2], Waste Tank Rinse Fitting Heater Installation, TASK 30-71-04-400-801.

SUBTASK 38-32-09-860-002

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
D	18	C01463	WASTE/WTR LINE HEATERS

H. Waste Tank Rinse Fitting Assembly Installation Test

SUBTASK 38-32-09-610-002

- (1) Open the cap of the rinse fitting.

SUBTASK 38-32-09-610-003

- (2) Connect a rinse water hose from the service waste system servicing equipment, STD-1142 to the rinse fitting.

SUBTASK 38-32-09-170-001

- (3) Fill the waste tank with 30 gallons to 40 gallons (115-150 liters) of water.

SUBTASK 38-32-09-790-001

- (4) Examine the rinse fitting assembly and the connections for leakage.

EFFECTIVITY
LOM ALL

38-32-09



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I. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-09-610-004

- (1) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.

SUBTASK 38-32-09-410-001



WARNING

SEAL THE CARGO COMPARTMENT WITH THE LINING. OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN YOU INSTALL THE LINING. IF YOU INSTALL THE LINING INCORRECTLY, THE SMOKE CAN GET INTO THE PASSENGER COMPARTMENT DURING A FIRE.

- (2) Do this task: Waste Tank Enclosure Panel - Installation, TASK 25-52-20-400-801.

SUBTASK 38-32-09-410-002

- (3) Close this access panel:

Number Name/Location

822 Aft Cargo Door

SUBTASK 38-32-09-410-003

- (4) Close this access panel:

Number Name/Location

145AL Waste Service Door

———— END OF TASK ————

EFFECTIVITY
LOM ALL

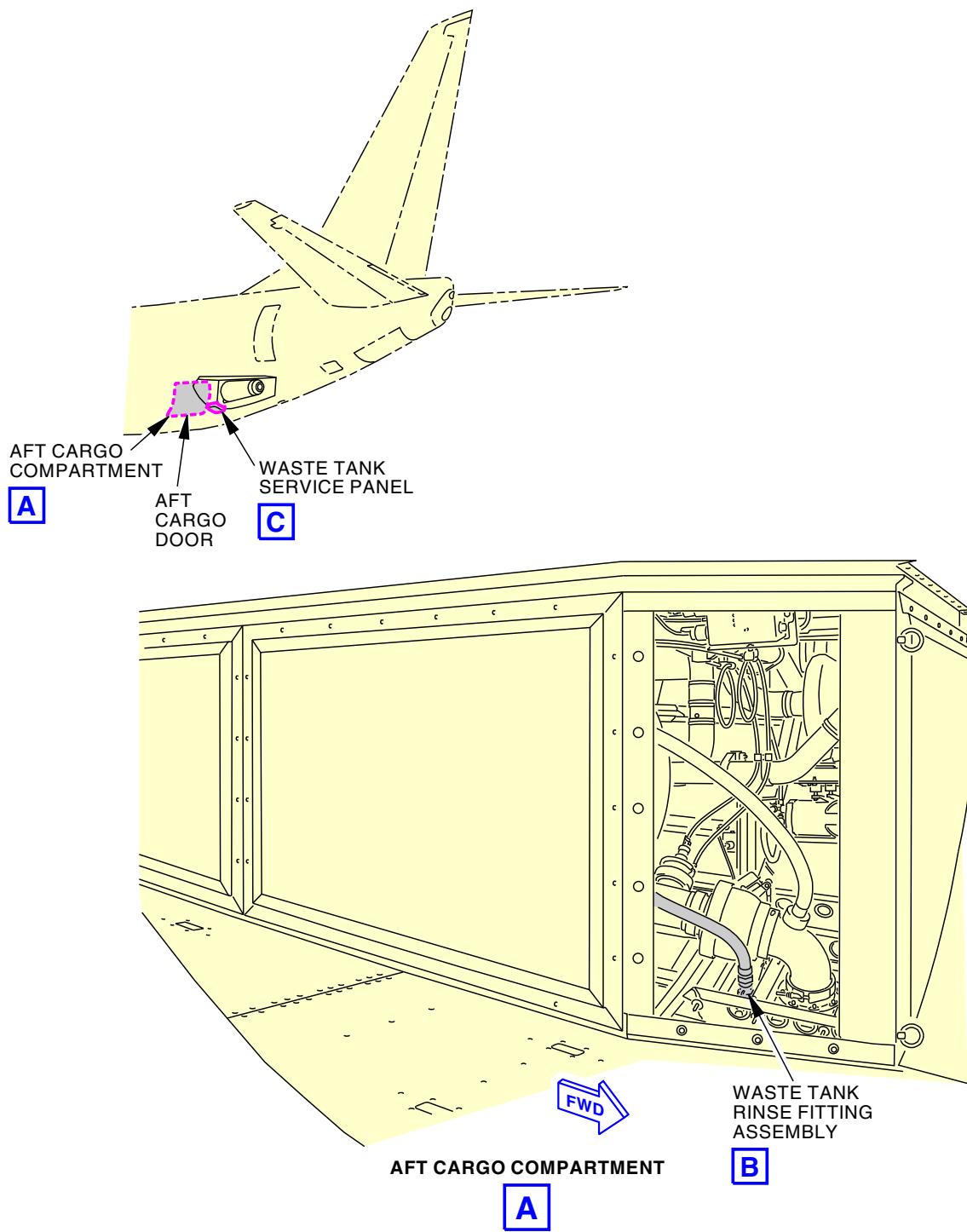
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Waste Tank Rinse Fitting Assembly Installation
Figure 401/38-32-09-990-801 (Sheet 1 of 2)

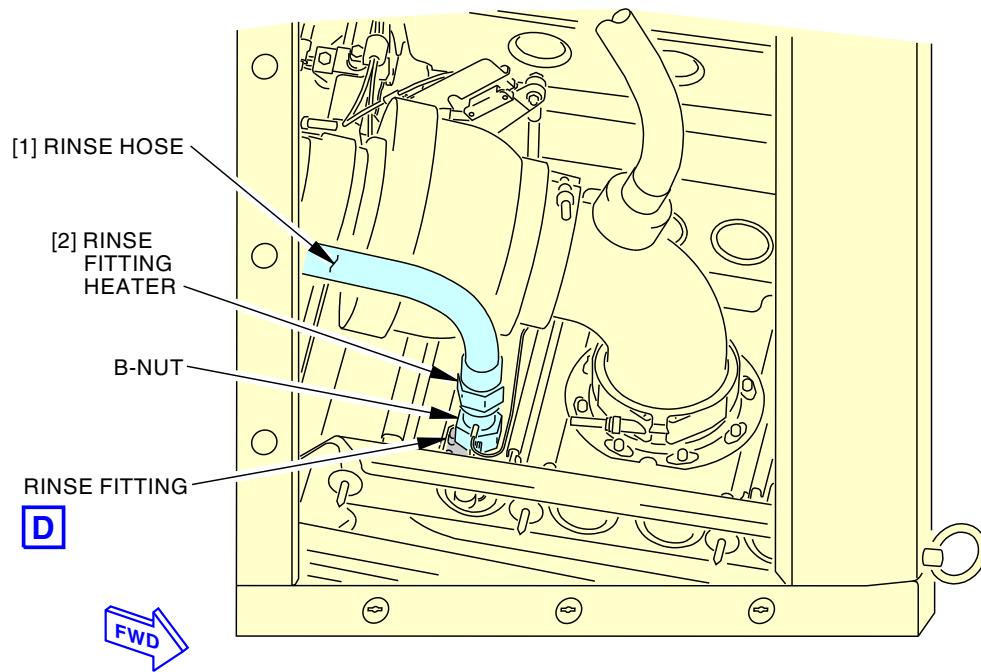
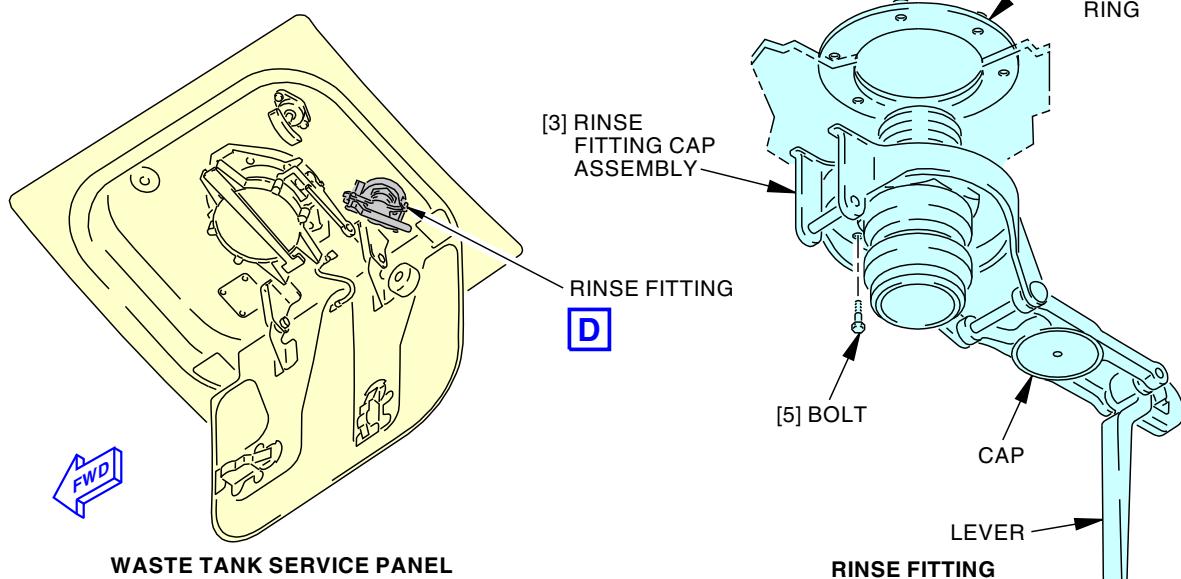
EFFECTIVITY
LOM ALL

38-32-09

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**WASTE TANK RINSE FITTING ASSEMBLY
(INTERNAL VIEW)**
B


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Waste Tank Rinse Fitting Assembly Installation
Figure 401/38-32-09-990-801 (Sheet 2 of 2)

EFFECTIVITY
LOM ALL
38-32-09



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AIRCRAFT MAINTENANCE MANUAL

WASTE TANK RINSE NOZZLE - MAINTENANCE PRACTICES

1. General

- A. This procedure has these tasks:
 - (1) A removal of the waste tank rinse nozzle.
 - (2) An installation of the waste tank rinse nozzle.
 - (3) A cleaning of the waste tank rinse nozzle.
- B. The Waste Tank Rinse Nozzle is referred to as the Rinse Nozzle in this procedure.

TASK 38-32-10-000-801

2. Waste Tank Rinse Nozzle Removal

(Figure 201)

A. References

Reference	Title
12-17-01-610-801	Waste Tank Servicing (P/B 301)
25-52-20-000-801	Waste Tank Enclosure Panel - Removal (P/B 401)
38-32-00-910-801	Standard Practices for Work with the Toilet Waste and Equipment (P/B 201)

B. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
141	Aft Cargo Compartment - Left

C. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
822	Aft Cargo Door

D. Prepare for the Removal

SUBTASK 38-32-10-910-001

- (1) Do this task: Standard Practices for Work with the Toilet Waste and Equipment, TASK 38-32-00-910-801.

SUBTASK 38-32-10-610-001

- (2) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.

NOTE: Do not add the chemical precharge after you did the task to drain and flush the waste tanks.

SUBTASK 38-32-10-010-001

- (3) Open this access panel:

Number	Name/Location
822	Aft Cargo Door

SUBTASK 38-32-10-010-002

- (4) Do this task: Waste Tank Enclosure Panel - Removal, TASK 25-52-20-000-801.



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SUBTASK 38-32-10-040-001

- (5) To get access to the P91 panel, open this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-32-10-860-003



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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT
F	2	C01389	VACUUM WASTE BLOWER

E. Rinse Nozzle Removal

SUBTASK 38-32-10-020-001



CAUTION

USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (1) Disconnect the rinse hose [3] from the rinse nozzle assembly [2].

SUBTASK 38-32-10-020-002

- (2) Remove the V-band coupling [1].

SUBTASK 38-32-10-020-003

- (3) Remove the rinse nozzle assembly [2] and packing [4] from the mounting flange of the waste tank.

- (a) Discard the packing [4].

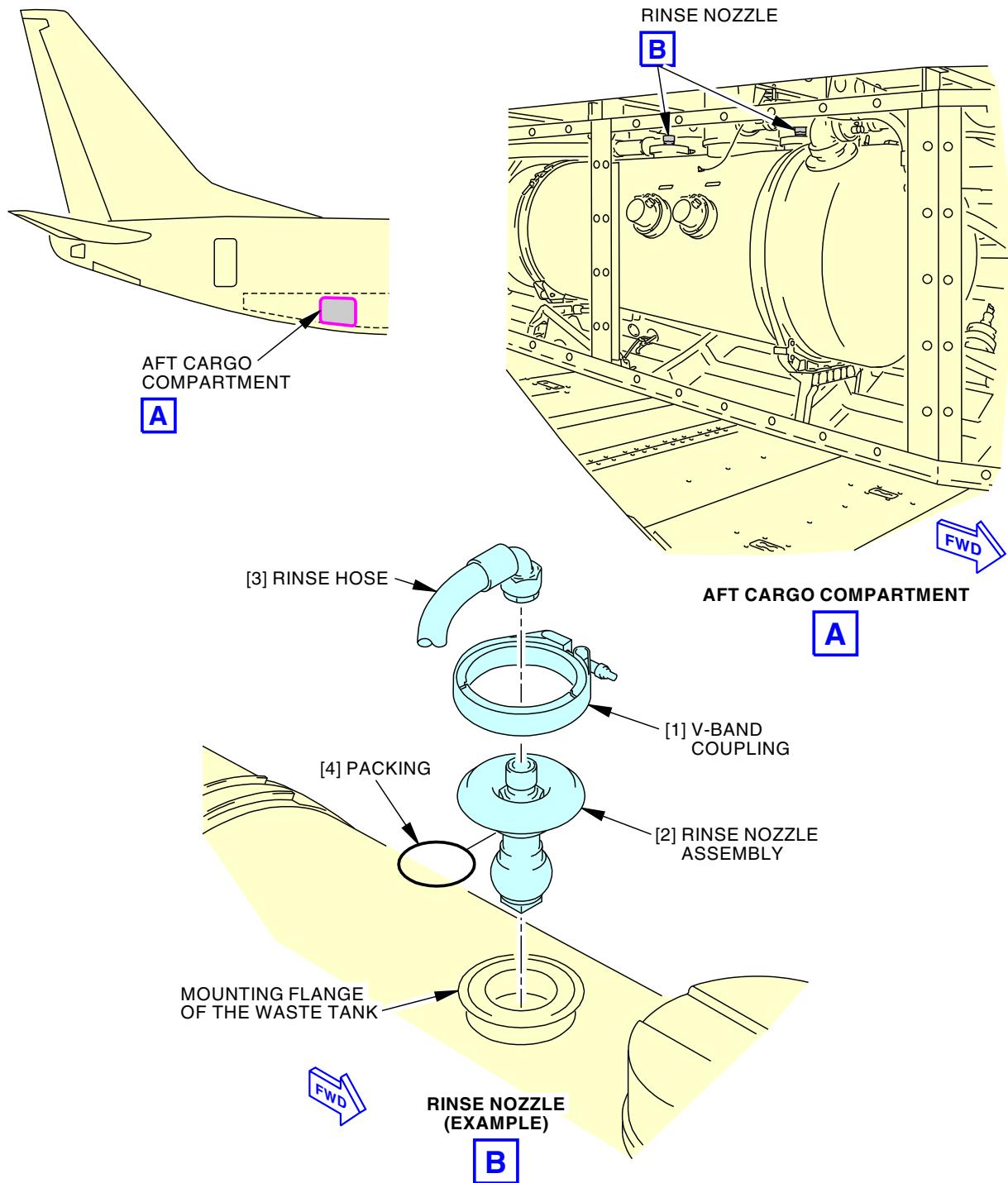
SUBTASK 38-32-10-160-001

- (4) Clean all the waste material from the hole in the waste tank for the rinse nozzle.

———— END OF TASK ————

— EFFECTIVITY —
LOM ALL

38-32-10



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Waste Tank Rinse Nozzle Installation
Figure 201/38-32-10-990-803

EFFECTIVITY
LOM ALL

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AIRCRAFT MAINTENANCE MANUAL

TASK 38-32-10-400-801

3. Waste Tank Rinse Nozzle Installation

(Figure 201)

A. References

Reference	Title
12-17-01-610-801	Waste Tank Servicing (P/B 301)
24-22-00-860-811	Supply Electrical Power (P/B 201)
25-52-20-400-801	Waste Tank Enclosure Panel - Installation (P/B 401)

B. Consumable Materials

Reference	Description	Specification
D00189	Compound - Molykote 111 (Formerly Dow Corning 111, Valve Sealant and Lubricant)	
D00463	Grease - Food Processing Equipment	DOD-G-24650

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
4	Packing	38-32-10-50-085	LOM ALL

D. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
141	Aft Cargo Compartment - Left

E. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
822	Aft Cargo Door

F. Rinse Nozzle Installation

SUBTASK 38-32-10-640-001



USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (1) Apply the grease, D00463, or Molykote 111 Compound, D00189, on the new packing [4] and mounting flange of the waste tank.

SUBTASK 38-32-10-420-001

- (2) Install the packing [4] on the rinse nozzle assembly [2].

SUBTASK 38-32-10-420-002

- (3) Put the rinse nozzle assembly [2] in its position.

SUBTASK 38-32-10-420-003

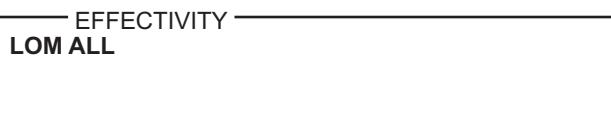
- (4) Install the V-band coupling [1] that attaches the rinse nozzle assembly [2].

SUBTASK 38-32-10-420-004

- (5) Tighten the V-band coupling [1] to 40 in-lb (5 N·m) - 50 in-lb (6 N·m).

SUBTASK 38-32-10-420-005

- (6) Connect the rinse hose [3] to the rinse nozzle assembly [2].



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SUBTASK 38-32-10-420-009

- (7) Tighten the rinse hose [3] to 300 in-lb (34 N·m) - 350 in-lb (40 N·m).

G. Rinse Nozzle Installation Test

SUBTASK 38-32-10-860-001



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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT
F	2	C01389	VACUUM WASTE BLOWER

SUBTASK 38-32-10-410-004

- (2) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-32-10-860-002

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

SUBTASK 38-32-10-610-002

- (4) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.

SUBTASK 38-32-10-790-001

- (5) Check the rinse nozzle assembly [2] at the rinse line fitting connection and at the waste tank connection to make sure that no leaks occur during the servicing step.

H. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-10-010-003



WARNING

SEAL THE CARGO COMPARTMENT WITH THE LINING. OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN YOU INSTALL THE LINING. IF YOU INSTALL THE LINING INCORRECTLY, THE SMOKE CAN GET INTO THE PASSENGER COMPARTMENT DURING A FIRE.

- (1) Do this task: Waste Tank Enclosure Panel - Installation, TASK 25-52-20-400-801.

EFFECTIVITY
LOM ALL

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SUBTASK 38-32-10-410-001

- (2) Close this access panel:

<u>Number</u>	<u>Name/Location</u>
822	Aft Cargo Door

———— END OF TASK ————

TASK 38-32-10-100-801

4. Waste Tank Rinse Nozzle Cleaning

(Figure 202)

A. Consumable Materials

Reference	Description	Specification
A00648	Compound - Retaining - Loctite 242	ASTM D5363 Grp 3 Cl 2 Gd 1 (SUPERSEDES MIL-S-46163)

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
22	Rotating rinse nozzle	38-32-10-50-080	LOM ALL
23	Gasket	38-32-10-50-070	LOM ALL

C. Location Zones

Zone	Area
141	Aft Cargo Compartment - Left

D. Waste Tank Rinse Nozzle Cleaning

SUBTASK 38-32-10-020-004

- (1) Do this task: Waste Tank Rinse Nozzle Removal, TASK 38-32-10-000-801.

SUBTASK 38-32-10-140-001

- (2) Clean the rinse nozzle assembly using liquid soap and bristle brush.

SUBTASK 38-32-10-210-001

- (3) Make sure that the holes in the rotating rinse nozzle [22] are clean.

SUBTASK 38-32-10-710-001

- (4) Make sure that the rotating rinse nozzle [22] turns freely.

SUBTASK 38-32-10-020-005

- (5) If there is a malfunction of the rinse nozzle, do the steps that follow to disassemble and clean the rinse nozzle:

NOTE: It is optional to disassemble the rinse nozzle.

- Remove the nut [25] and washer [24] from the housing [26].
- Remove the housing [26] and gasket [23] from the rinse mounting flange [21].
- Remove the rotating rinse nozzle [22] from the housing [26].

NOTE: These parts are assembled with locking compound and will not disconnect easily.

- Clean the rotating rinse nozzle [22] with liquid soap and bristle brush.

SUBTASK 38-32-10-420-006

- (6) If the rinse nozzle was disassembled, do these steps to assemble the rinse nozzle:

- Apply Loctite 242 compound, A00648, to the threads of the housing [26].



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- (b) Install the rotating rinse nozzle [22] on the housing [26].
 - 1) Tighten the rotating rinse nozzle [22] until it reaches the bottom of the housing [26].
 - 2) Hold the square end of the rotating rinse nozzle [22] in a vise and tighten the assembly 1/4 turn maximum.
- (c) Install the housing [26] and gasket [23] in the rinse mounting flange [21].
- (d) Install the nut [25] and washer [24] to attach the rinse mounting flange [21] to the housing [26].

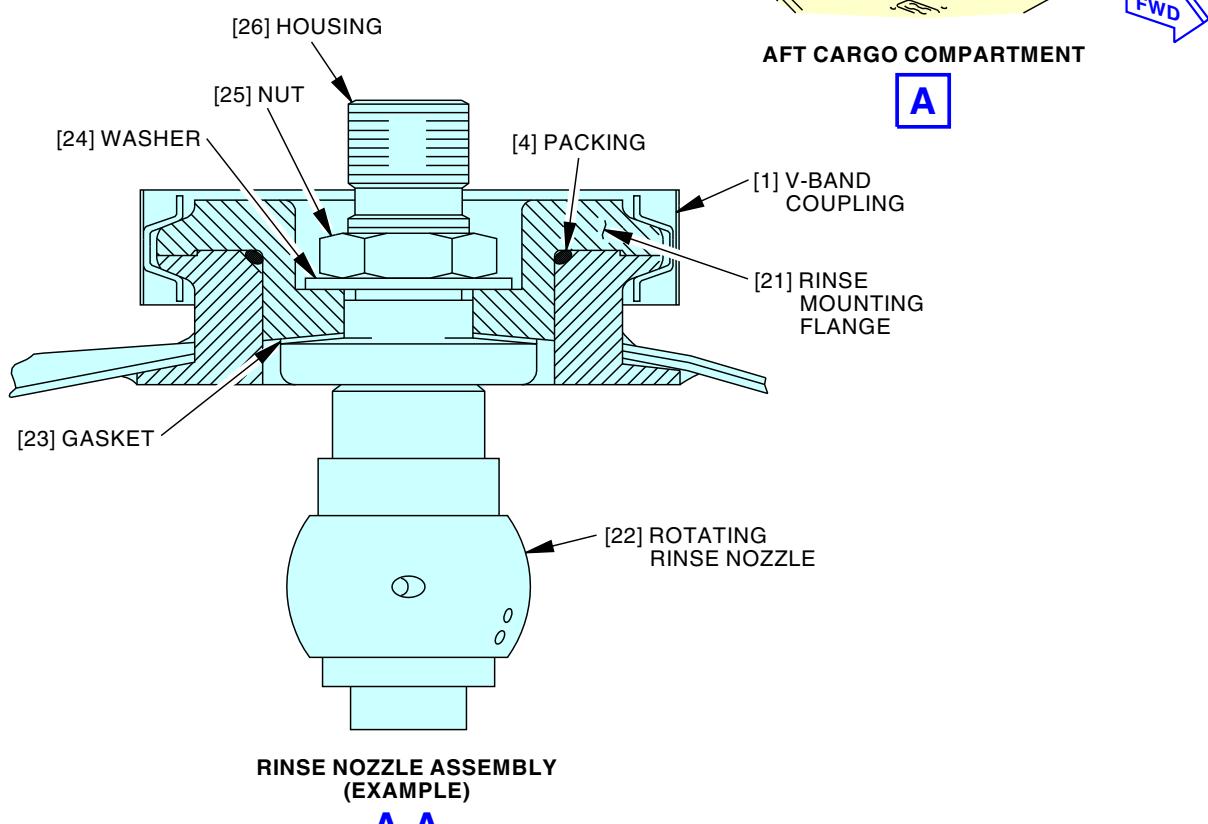
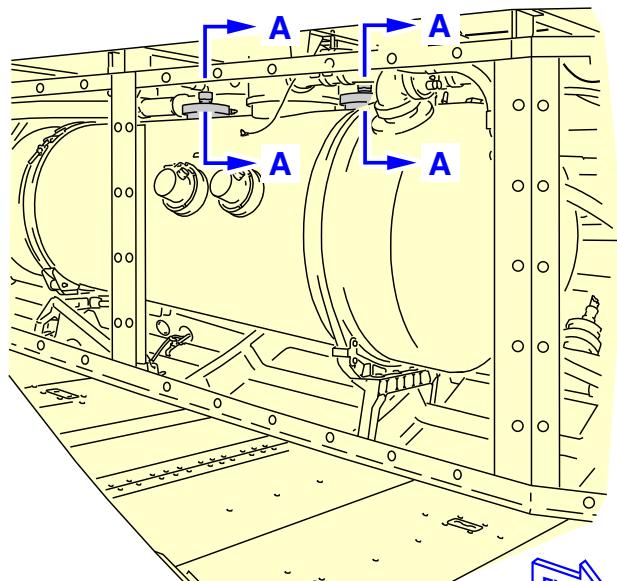
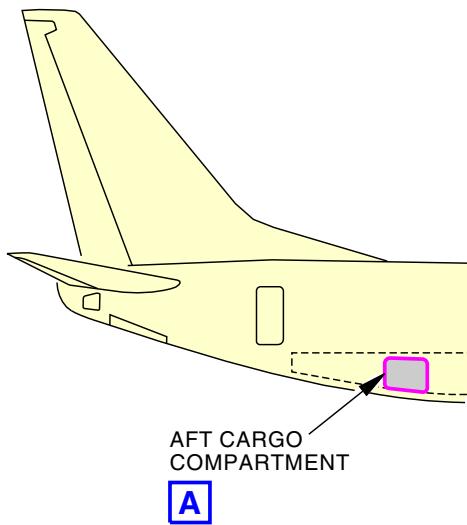
SUBTASK 38-32-10-420-007

- (7) Do this task: Waste Tank Rinse Nozzle Installation, TASK 38-32-10-400-801.

———— END OF TASK ————

EFFECTIVITY
LOM ALL

38-32-10



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Rinse Nozzle Cleaning
Figure 202/38-32-10-990-802

 EFFECTIVITY
 LOM ALL

38-32-10



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AIRCRAFT MAINTENANCE MANUAL

WASTE TANK RINSE FILTER - MAINTENANCE PRACTICES

1. General

- A. This procedure has these tasks:
- (1) A removal of the waste tank rinse filter
 - (2) An installation of the waste tank rinse filter.
 - (3) A cleaning of the waste tank rinse filter element.

TASK 38-32-11-000-801

2. Waste Tank Rinse Filter Removal

(Figure 201 or Figure 202)

A. References

Reference	Title
12-17-01-610-801	Waste Tank Servicing (P/B 301)
25-52-20-000-801	Waste Tank Enclosure Panel - Removal (P/B 401)

B. Location Zones

Zone	Area
141	Aft Cargo Compartment - Left

C. Access Panels

Number	Name/Location
822	Aft Cargo Door

D. Prepare for the Removal

SUBTASK 38-32-11-610-001

- (1) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.

NOTE: Do not add the chemical precharge after you do the task to drain and flush the waste tanks.

SUBTASK 38-32-11-010-001

- (2) Open this access panel:

Number	Name/Location
822	Aft Cargo Door

SUBTASK 38-32-11-010-002

- (3) To remove the enclosure panels for the waste tanks, do this task: Waste Tank Enclosure Panel - Removal, TASK 25-52-20-000-801.

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-431

E. Waste Tank Rinse Filter Removal

SUBTASK 38-32-11-020-001



CAUTION

USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (1) Loosen the B-nut of the rinse hose [5] to disconnect the rinse filter [3].

SUBTASK 38-32-11-020-002

- (2) Loosen the clamp [4].

EFFECTIVITY
LOM ALL

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LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-431 (Continued)

SUBTASK 38-32-11-020-003

- (3) Remove the filter [3] and packing [2] from the rinse valve [1].
 - (a) Discard the packing [2].

LOM 432-434, 437-447, 450-999

F. Waste Tank Rinse Filter Removal

SUBTASK 38-32-11-020-006



CAUTION

USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (1) Loosen the B-nut of the rinse hose [5] to disconnect the rinse filter [3].

SUBTASK 38-32-11-020-007

- (2) Loosen the clamps [4].

SUBTASK 38-32-11-020-008

- (3) Remove the filter [3] and packing [2] from the union fitting [11]
 - (a) Discard the packing [2].

LOM ALL

— END OF TASK —

TASK 38-32-11-400-801

3. Waste Tank Rinse Filter Installation

(Figure 201 or Figure 202)

A. References

Reference	Title
12-17-01-610-801	Waste Tank Servicing (P/B 301)
25-52-20-400-801	Waste Tank Enclosure Panel - Installation (P/B 401)

B. Tools/Equipment

Reference	Description
STD-1142	Equipment - Waste System Servicing

C. Consumable Materials

Reference	Description	Specification
D00504	Grease - Petrolatum	VV-P-236

D. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
2	Packing	38-32-00-05A-140	LOM 402, 404
		38-32-13-01-130	LOM 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-999
3	Filter	38-32-00-05A-165	LOM 402, 404

EFFECTIVITY
LOM ALL

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(Continued)

AMM Item	Description	AIPC Reference	AIPC Effectivity
3 (cont.)		38-32-13-01-150	LOM 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-999

E. Location Zones

Zone	Area
141	Aft Cargo Compartment - Left

F. Access Panels

Number	Name/Location
145AL	Waste Service Door
822	Aft Cargo Door

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-431

G. Waste Tank Rinse Filter Installation

SUBTASK 38-32-11-640-001



CAUTION

USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (1) Apply the grease, D00504 to the packing [2] and the threads of the rinse valve [1].

SUBTASK 38-32-11-420-001

- (2) Install the packing [2] on the rinse valve [1].

SUBTASK 38-32-11-420-002

- (3) Install the rinse filter [3] on the rinse valve [1].

SUBTASK 38-32-11-420-003

- (4) Tighten the clamp [4] for the rinse filter [3].

SUBTASK 38-32-11-420-004

- (5) Install the rinse hose [5].

LOM 432-434, 437-447, 450-999

H. Waste Tank Rinse Filter Installation

SUBTASK 38-32-11-640-003



CAUTION

USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (1) Apply the grease, D00504 to the packing [2] and the threads of the union fitting [11].

SUBTASK 38-32-11-420-009

- (2) Install the packing [2] on the union fitting [11].

SUBTASK 38-32-11-420-010

- (3) Install the rinse filter [3] on the union fitting [11].

SUBTASK 38-32-11-420-011

- (4) Tighten the clamps [4] for the rinse filter [3].

EFFECTIVITY

LOM ALL

38-32-11



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LOM 432-434, 437-447, 450-999 (Continued)

SUBTASK 38-32-11-420-012

- (5) Install the rinse hose [5].

LOM ALL

I. Waste Tank Rinse Filter Installation Test

SUBTASK 38-32-11-860-001

- (1) Open this access panel:

Number Name/Location

145AL Waste Service Door

SUBTASK 38-32-11-610-002

- (2) Open the cap on the rinse fitting assembly.

SUBTASK 38-32-11-610-003

- (3) Connect a rinse water hose from the service waste system servicing equipment, STD-1142 to the rinse fitting assembly.

SUBTASK 38-32-11-170-001

- (4) Fill the waste tank with 10 gallons to 20 gallons of water.

SUBTASK 38-32-11-790-001

- (5) Examine the rinse filter and the connections for leakage.

J. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-11-610-004

- (1) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.

SUBTASK 38-32-11-010-003



WARNING

SEAL THE CARGO COMPARTMENT WITH THE LINING. OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN YOU INSTALL THE LINING. IF YOU INSTALL THE LINING INCORRECTLY, THE SMOKE CAN GET INTO THE PASSENGER COMPARTMENT DURING A FIRE.

- (2) Do this task: Waste Tank Enclosure Panel - Installation, TASK 25-52-20-400-801.

SUBTASK 38-32-11-410-001

- (3) Close this access panel:

Number Name/Location

822 Aft Cargo Door

SUBTASK 38-32-11-410-002

- (4) Close this access panel:

Number Name/Location

145AL Waste Service Door

———— END OF TASK ————

EFFECTIVITY
LOM ALL

38-32-11



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TASK 38-32-11-100-801

4. Waste Tank Rinse Filter Element Cleaning

(Figure 201 or Figure 202)

A. References

Reference	Title
38-32-00-910-801	Standard Practices for Work with the Toilet Waste and Equipment (P/B 201)

B. Tools/Equipment

Reference	Description
STD-419	Gloves - Rubber, Elbow Length
STD-1136	Facepiece (Mask) - Particulate Filtering, Disposable (NIOSH N95 approved)
STD-1137	Glasses - Safety

C. Consumable Materials

Reference	Description	Specification
B00541	Cleaner - General Purpose Household Detergent	
B50099	Detergent - Concentrated, Anionic	
D00504	Grease - Petrolatum	VV-P-236
G02315	Clothing - Disposable Gown, Gloves For Sewage Handling	
G50321	Air - Clean, Dry	BAC5402 Table I

D. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
7	Element	38-32-00-05A-185	LOM 402, 404
		38-32-13-01-170	LOM 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-999
9	Packing	38-32-00-05A-175	LOM 402, 404
		38-32-13-01-160	LOM 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-999

E. Location Zones

Zone	Area
141	Aft Cargo Compartment - Left

F. Waste Tank Rinse Filter Element Cleaning

SUBTASK 38-32-11-160-001

(1) Prepare for the Task:

Make sure you use the protective clothing (Standard Practices for Work with the Toilet Waste and Equipment, TASK 38-32-00-910-801).

NOTE: These are items that you can wear to give you protection when it is necessary.

- (a) elbow length rubber gloves, STD-419
- (b) filtering facepiece, STD-1136

EFFECTIVITY
LOM ALL

38-32-11



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- (c) safety glasses, STD-1137
- (d) Disposable clothing, G02315

SUBTASK 38-32-11-020-004



CAUTION

USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (2) Do this task: Waste Tank Rinse Filter Removal, TASK 38-32-11-000-801.

SUBTASK 38-32-11-010-004

- (3) Remove the inlet connector [10] and the packing [9] from the filter housing [6].
 - (a) Discard the packing [9].

SUBTASK 38-32-11-020-005

- (4) Remove the filter element [7] and the spring [8].

SUBTASK 38-32-11-130-001

- (5) Clean the filter element [7] using Cleaning Method I.
 - (a) Soak the filter element [7] in a weak detergent solution. Use the general purpose household detergent cleaner, B00541, or a liquid dishwashing detergent. Mix 4 fl-oz (118 cc)detergent per 1 gal (4 l) warm water.
 - (b) Brush each pleat of the filter element [7] with a soft bristle brush.
 - (c) Reverse flow flush with warm tap water.
 - (d) Blow dry with low pressure air.
 - (e) Make sure that the filter element [7] is in a serviceable condition.

SUBTASK 38-32-11-130-002

- (6) Clean the filter element [7] using the alternate (ultrasonic) Cleaning Method II.
 - (a) Flush the filter element with a reverse flow of warm water (the opposite direction of normal fluid flow).
Remove as much contamination off the outside of the filter element as possible
 - (b) Ultrasonic clean the filter element for 15 minutes in the anionic detergent cleaning solution. Use a solution of 1 fl-oz (30 cc) concentrated, anionic detergent, B50099 per 1 gal (3.8 l) warm water.
 - (c) Flush the filter element with a reverse flow of hot water.
 - (d) Remove the entrapped water from the filter element with a reverse flow of clean dry air, G50321.
 - (e) Dry the filter element in an oven at 250°F (121°C) for 1/2 hour, or air dry the filter element until moisture is not detectable.
 - (f) Make sure that the filter element [7] is in a serviceable condition.

SUBTASK 38-32-11-960-001

- (7) If the contamination is not removed, or if the filter element is damaged, use a new filter element [7].

SUBTASK 38-32-11-420-005

- (8) Put the filter housing [6] in a position to assemble the filter [3].

SUBTASK 38-32-11-420-006

- (9) Put the filter element [7] and the spring [8] in the filter housing [6].

EFFECTIVITY
LOM ALL

38-32-11



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SUBTASK 38-32-11-640-002

- (10) Apply the grease, D00504 to the packing [9] and the threads of the connector [10].

SUBTASK 38-32-11-420-007

- (11) Install the inlet connector [10] and the packing [9] in the filter housing [6].

SUBTASK 38-32-11-420-008

- (12) Do this task: Waste Tank Rinse Filter Installation, TASK 38-32-11-400-801.

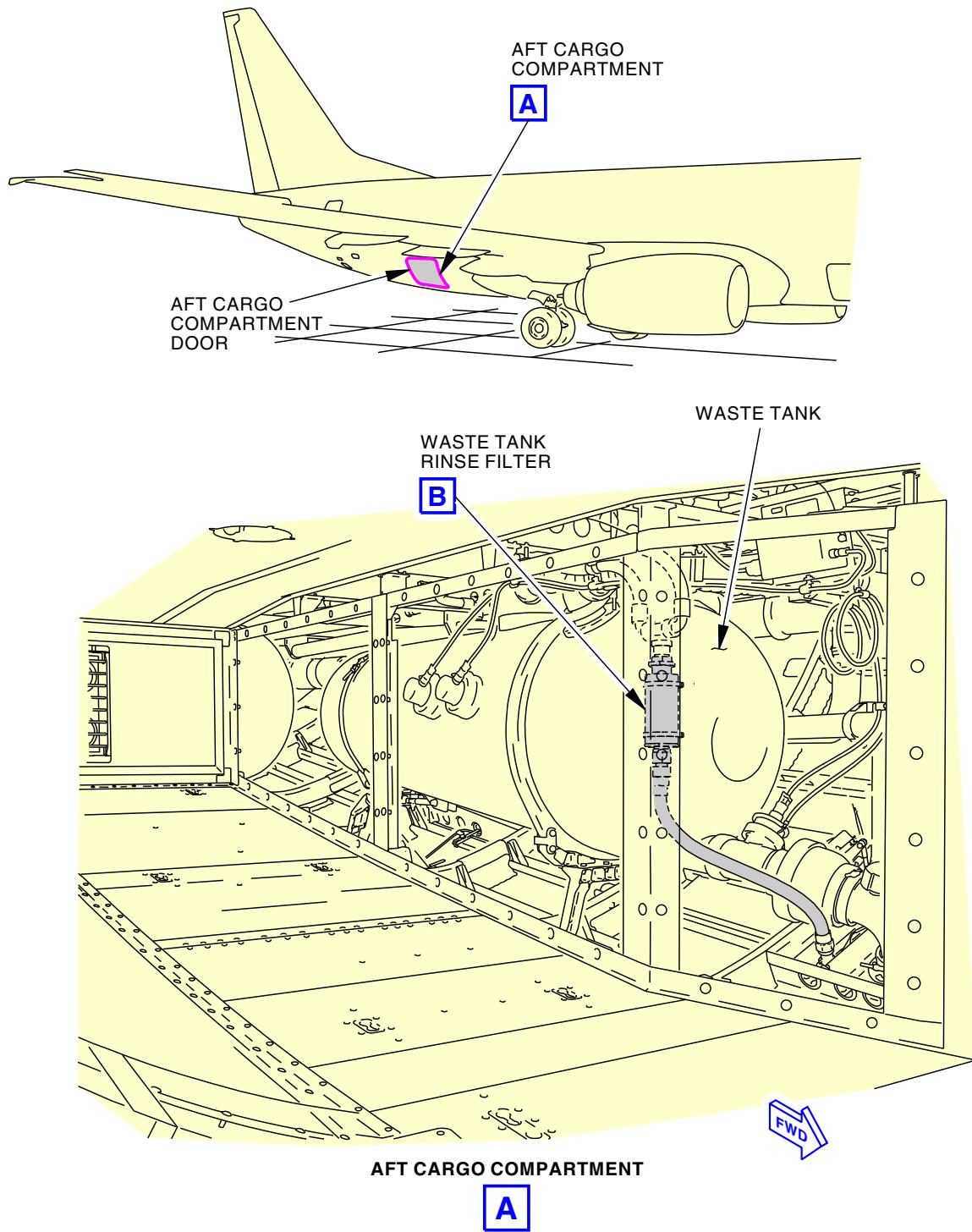
———— END OF TASK ————

EFFECTIVITY
LOM ALL

38-32-11



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AIRCRAFT MAINTENANCE MANUAL



2238306 S0000500295_V2

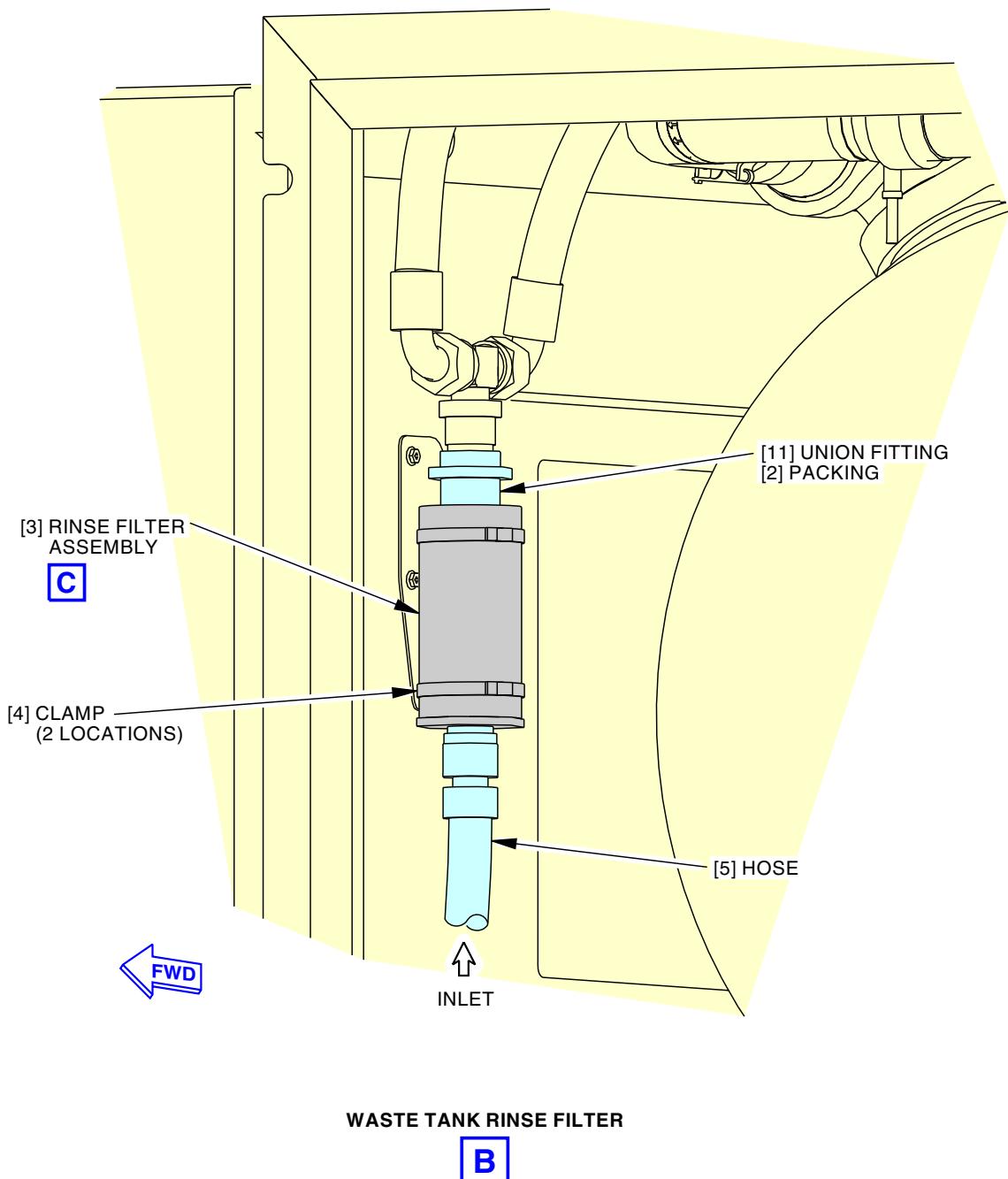
Waste Tank Rinse Filter Installation
Figure 201/38-32-11-990-802 (Sheet 1 of 3)

EFFECTIVITY
LOM 432-434, 437-447, 450-999

38-32-11

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ECCN 9E991 BOEING PROPRIETARY - See title page for details



2238366 S0000500297_V2

Waste Tank Rinse Filter Installation
Figure 201/38-32-11-990-802 (Sheet 2 of 3)

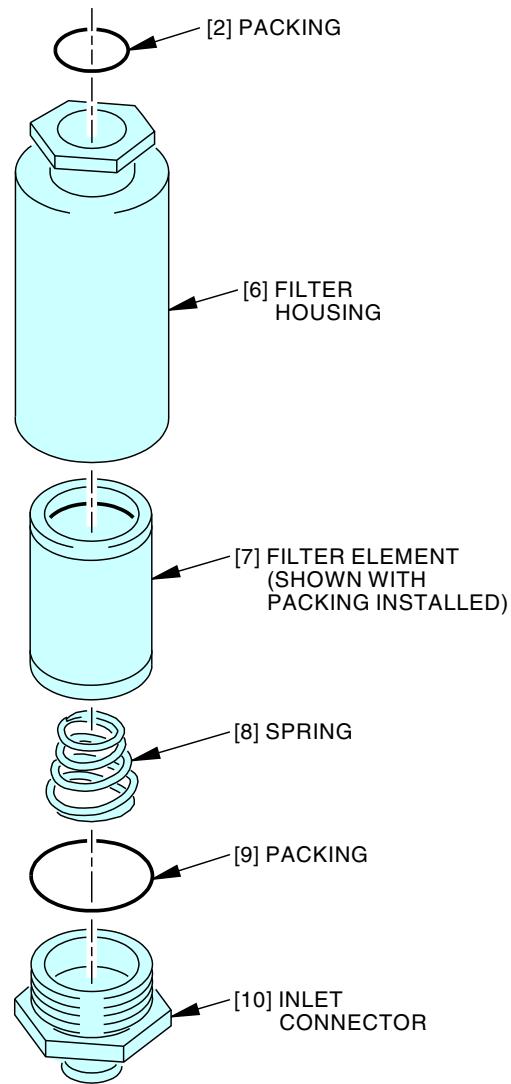
EFFECTIVITY
LOM 432-434, 437-447, 450-999

38-32-11

D633A101-LOM

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BOEING
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RINSE FILTER ASSEMBLY

C

G18095 S0006578749_V2

Waste Tank Rinse Filter Installation
Figure 201/38-32-11-990-802 (Sheet 3 of 3)

EFFECTIVITY
LOM 432-434, 437-447, 450-999

38-32-11

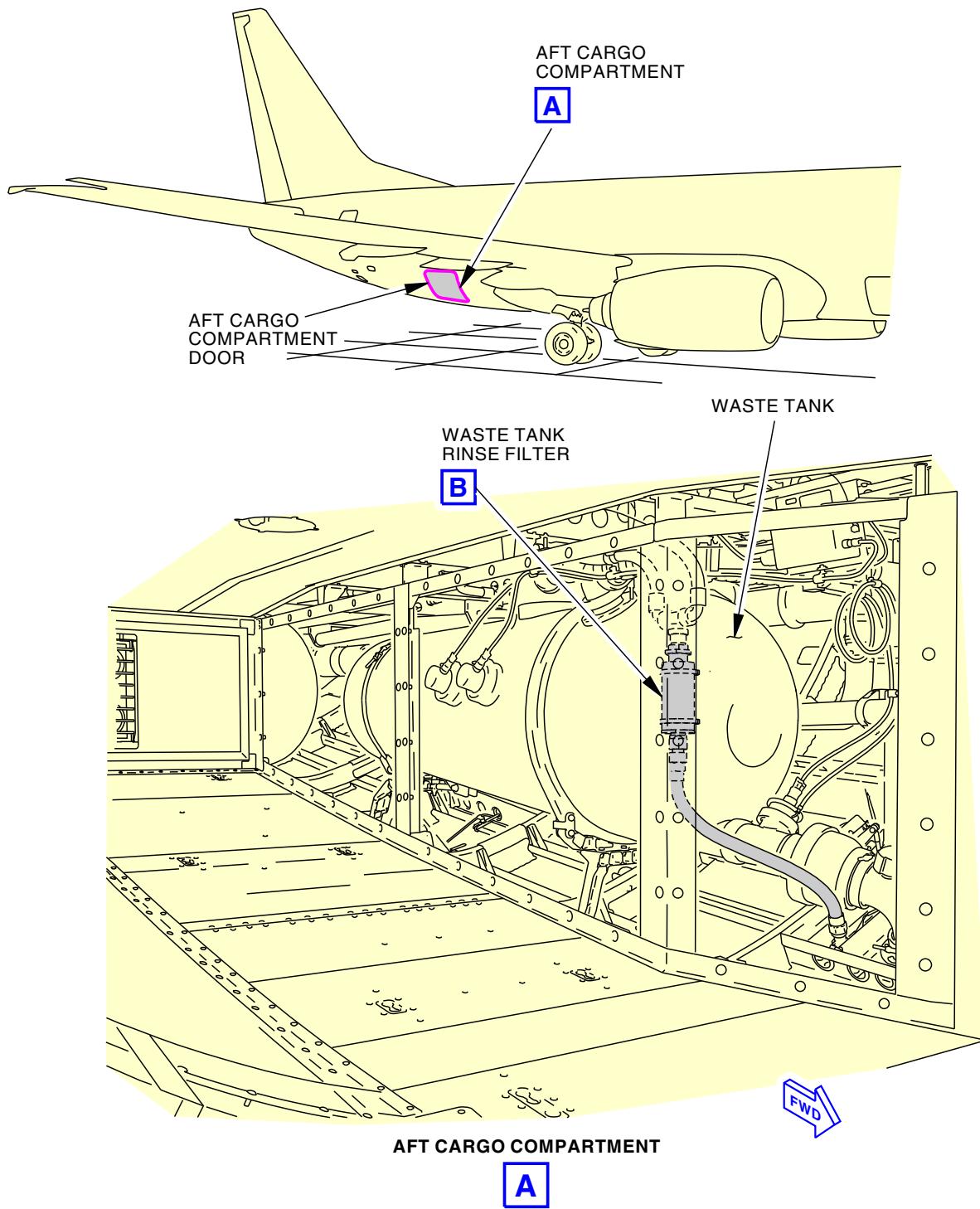
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G17998 S0006578747_V2

Waste Tank Rinse Filter Installation
Figure 202/38-32-11-990-801 (Sheet 1 of 3)

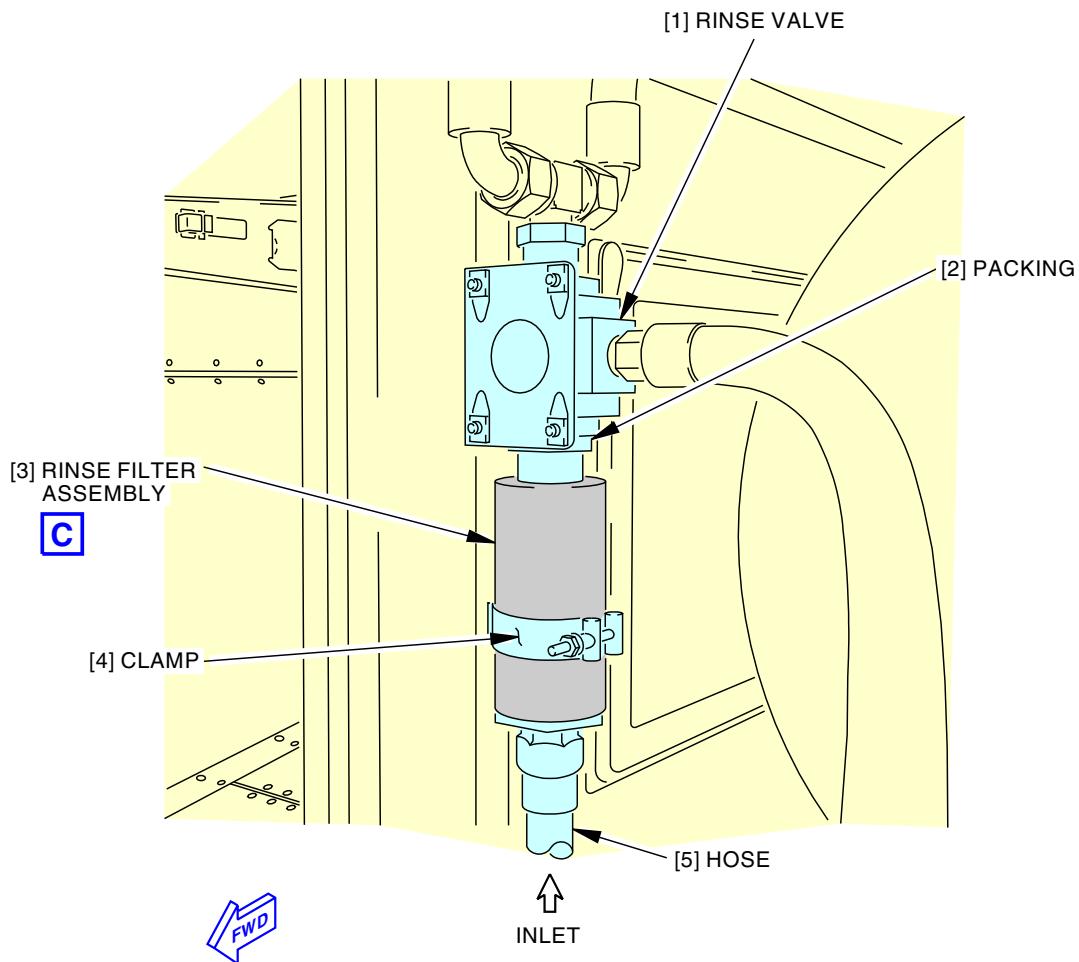
EFFECTIVITY
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
422-431

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WASTE TANK RINSE FILTER
B

G18093 S0006578748_V2

Waste Tank Rinse Filter Installation
Figure 202/38-32-11-990-801 (Sheet 2 of 3)

EFFECTIVITY
**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
422-431**

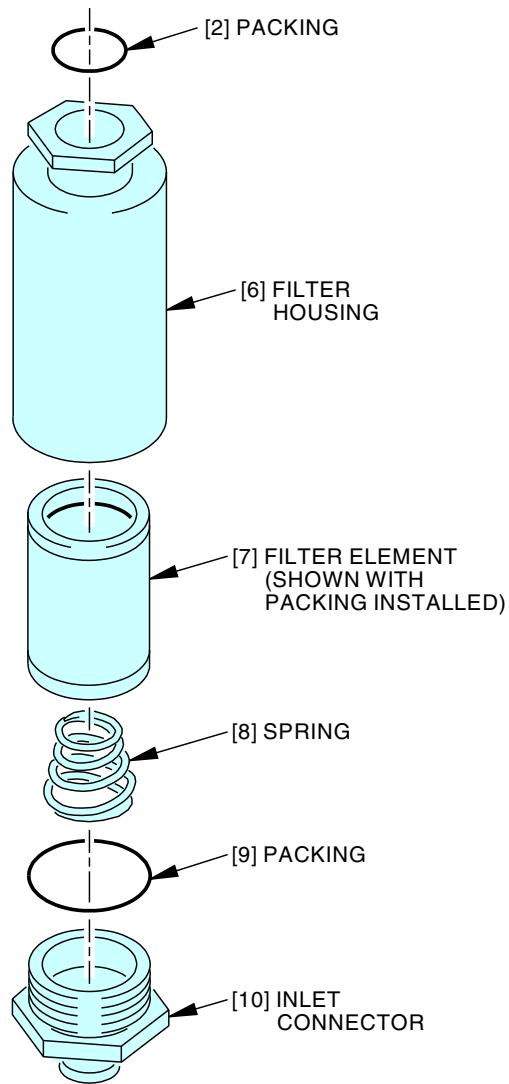
38-32-11

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RINSE FILTER ASSEMBLY

C

G18095 S0006578749_V2

Waste Tank Rinse Filter Installation
Figure 202/38-32-11-990-801 (Sheet 3 of 3)

EFFECTIVITY
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
422-431

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VACUUM BLOWER BAROMETRIC SWITCH - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
 - (1) A removal of the vacuum blower barometric switch
 - (2) An installation of the vacuum blower barometric switch.
- B. The vacuum blower barometric switch is referred to as the altitude switch in this procedure.
 - (1) An altitude switch controls power to the vacuum blower. When the airplane is climbing, the switch cuts power to the vacuum blower at about 16,000 ft (4877 m). When the airplane is descending, the altitude sensing switch closes at about 12,000 ft (3658 m) providing power to the vacuum blower.

TASK 38-32-12-000-801

2. Vacuum Blower Barometric Switch Removal

(Figure 401)

A. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
312	Area Aft of Pressure Bulkhead - Right

B. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
311BL	Stabilizer Trim Access Door

C. Prepare for the Removal

SUBTASK 38-32-12-010-001

- (1) On the stabilizer leading edge, open this access panel:

Number	Name/Location
311BL	Stabilizer Trim Access Door

SUBTASK 38-32-12-010-003

- (2) To get access to the P91 panel, open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 38-32-12-040-001



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.

EFFECTIVITY
LOM ALL

38-32-12



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(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) Open this circuit breaker and install safety tag:

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT

D. Altitude Switch Removal

SUBTASK 38-32-12-020-001

- (1) Disconnect the electrical connector [1], from the altitude switch [2].

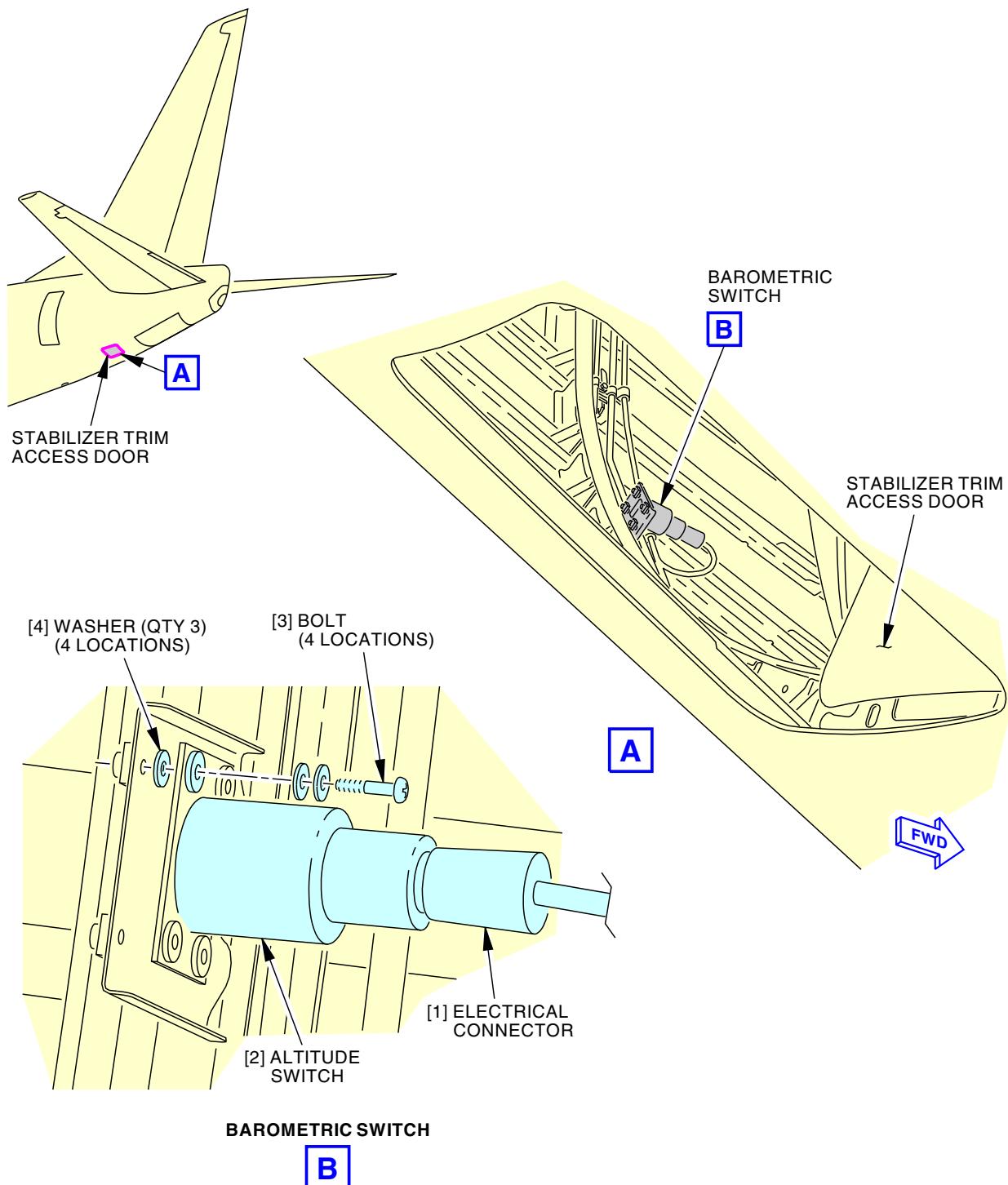
SUBTASK 38-32-12-020-002

- (2) Remove the bolts [3] and washers [4] to remove the altitude switch [2].

———— END OF TASK ————

EFFECTIVITY
LOM ALL

38-32-12



G12638 S0006578754_V2

Vacuum Blower Barometric Switch Installation

Figure 401/38-32-12-990-802

EFFECTIVITY
LOM ALL

38-32-12

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TASK 38-32-12-400-801

3. Vacuum Blower Barometric Switch Installation

(Figure 401)

A. References

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
2	Altitude switch	38-32-12-01-005	LOM ALL

C. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
312	Area Aft of Pressure Bulkhead - Right

D. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
311BL	Stabilizer Trim Access Door

E. Altitude Switch Installation

SUBTASK 38-32-12-420-001

- (1) Put the altitude switch [2] in its position.

SUBTASK 38-32-12-420-002

- (2) Install the bolts [3] and washers [4].

SUBTASK 38-32-12-420-003

- (3) Connect the electrical connector [1], to the altitude switch [2].

F. Altitude Switch Installation Test

SUBTASK 38-32-12-860-001



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.

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

Power Distribution Panel Number 1, P91

Row	Col	Number	Name
C	11	C01388	VACUUM WASTE CONT

EFFECTIVITY
LOM ALL

38-32-12



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SUBTASK 38-32-12-410-001

- (2) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-32-12-860-002

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

SUBTASK 38-32-12-710-001

- (4) Flush a toilet to make sure that the vacuum blower operates.

G. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-12-010-002

- (1) On the stabilizer leading edge, close this access panel:

Number Name/Location

311BL Stabilizer Trim Access Door

———— END OF TASK ————

EFFECTIVITY
LOM ALL

38-32-12

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WASTE TANK DRAIN LINE BLOCKAGE REMOVAL VALVE - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
 - (1) A removal of the blockage removal valve for the waste tank drain line.
 - (2) An installation of the blockage removal valve for the waste tank drain line.
- B. The Blockage Removal Valve for the Waste Tank Drain Line is referred to as the valve in this procedure.

TASK 38-32-13-000-801

2. Waste Tank Drain Line Blockage Removal Valve Removal

(Figure 401)

A. References

Reference	Title
12-17-01-610-801	Waste Tank Servicing (P/B 301)
25-52-20-000-801	Waste Tank Enclosure Panel - Removal (P/B 401)

B. Location Zones

Zone	Area
141	Aft Cargo Compartment - Left

C. Access Panels

Number	Name/Location
822	Aft Cargo Door

D. Prepare for the Removal

SUBTASK 38-32-13-610-001

- (1) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.

NOTE: Do not add the chemical precharge after you do the task to drain and flush the waste tanks.

SUBTASK 38-32-13-010-001

- (2) Open this access panel:

Number	Name/Location
822	Aft Cargo Door

SUBTASK 38-32-13-010-002

- (3) To remove the enclosure panels for the waste tanks, do this task: Waste Tank Enclosure Panel - Removal, TASK 25-52-20-000-801.

E. Waste Tank Drain Line Blockage Removal Valve Removal

SUBTASK 38-32-13-020-001



USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (1) Loosen the B-nut of the tee [1] that attaches the rinse hoses to disconnect the outlet of the valve [5].

EFFECTIVITY
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
422-431

38-32-13

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SUBTASK 38-32-13-020-002

- (2) Disconnect the hose [9] from the outlet of the valve [5].

SUBTASK 38-32-13-020-003

- (3) Remove the bolts [2], washers [3], and nuts [4].

SUBTASK 38-32-13-020-004

- (4) Loosen the filter [7] to remove the packing [6] from the valve [5].

- (a) Discard the packing [6].

———— END OF TASK ————

TASK 38-32-13-400-801

3. Waste Tank Drain Line Blockage Removal Valve Installation

(Figure 401)

A. References

Reference	Title
12-17-01-610-801	Waste Tank Servicing (P/B 301)
25-52-20-400-801	Waste Tank Enclosure Panel - Installation (P/B 401)

B. Tools/Equipment

Reference	Description
STD-1142	Equipment - Waste System Servicing

C. Consumable Materials

Reference	Description	Specification
D00504	Grease - Petrolatum	VV-P-236

D. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
5	Valve	38-32-00-05A-135	LOM 402, 404
		38-32-13-01-125	LOM 406, 407, 411, 412, 415, 416, 420, 422-431
6	Packing	38-32-00-05A-140	LOM 402, 404
		38-32-13-01-130	LOM 406, 407, 411, 412, 415, 416, 420, 422-431

E. Location Zones

Zone	Area
141	Aft Cargo Compartment - Left

F. Access Panels

Number	Name/Location
145AL	Waste Service Door
822	Aft Cargo Door

EFFECTIVITY
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
422-431

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G. Waste Tank Drain Line Blockage Removal Valve Installation

SUBTASK 38-32-13-640-001



CAUTION

USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (1) Apply the grease, D00504 to the packing [6] and the threads of the valve [5].

SUBTASK 38-32-13-420-001

- (2) Install the packing [6] on the valve [5].

SUBTASK 38-32-13-420-002

- (3) Install the valve [5] in its position on the filter [7].

SUBTASK 38-32-13-420-003

- (4) Install the bolts [2], washers [3], and nuts [4].

SUBTASK 38-32-13-420-004

- (5) Connect the hose [9] to the outlet of the valve [5].

SUBTASK 38-32-13-420-005

- (6) Connect the B-nut of the tee [1] that attaches the rinse hoses to the outlet of the valve [5].

H. Waste Tank Drain Line Blockage Removal Valve Installation Test

SUBTASK 38-32-13-860-001

- (1) Open this access panel:

Number Name/Location

145AL Waste Service Door

SUBTASK 38-32-13-860-002

- (2) Open the cap on the rinse fitting assembly.

SUBTASK 38-32-13-610-002

- (3) Connect a rinse water hose from the service waste system servicing equipment, STD-1142 to the rinse fitting assembly.

SUBTASK 38-32-13-170-001

- (4) Fill the waste tank with 10 gallons to 20 gallons of water.

SUBTASK 38-32-13-860-003

- (5) Set the valve handle to the blockage removal position.

SUBTASK 38-32-13-860-004

- (6) Pull the handle at the service panel to open the waste drain ball valve.

SUBTASK 38-32-13-170-002

- (7) Fill the waste tank with 10 gallons to 20 gallons of water.

SUBTASK 38-32-13-790-001

- (8) Examine the valve and the connections for leakage.

SUBTASK 38-32-13-860-005

- (9) Set the valve handle to the rinse position.

I. Put the Airplane Back to Its Usual Condition

SUBTASK 38-32-13-610-003

- (1) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.

EFFECTIVITY
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
422-431

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SUBTASK 38-32-13-010-003



WARNING

SEAL THE CARGO COMPARTMENT WITH THE LINING. OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN YOU INSTALL THE LINING. IF YOU INSTALL THE LINING INCORRECTLY, THE SMOKE CAN GET INTO THE PASSENGER COMPARTMENT DURING A FIRE.

- (2) Do this task: Waste Tank Enclosure Panel - Installation, TASK 25-52-20-400-801.

SUBTASK 38-32-13-410-001

- (3) Close this access panel:

Number Name/Location

822 Aft Cargo Door

SUBTASK 38-32-13-410-002

- (4) Close this access panel:

Number Name/Location

145AL Waste Service Door

———— END OF TASK ————

— EFFECTIVITY —
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
422-431

38-32-13

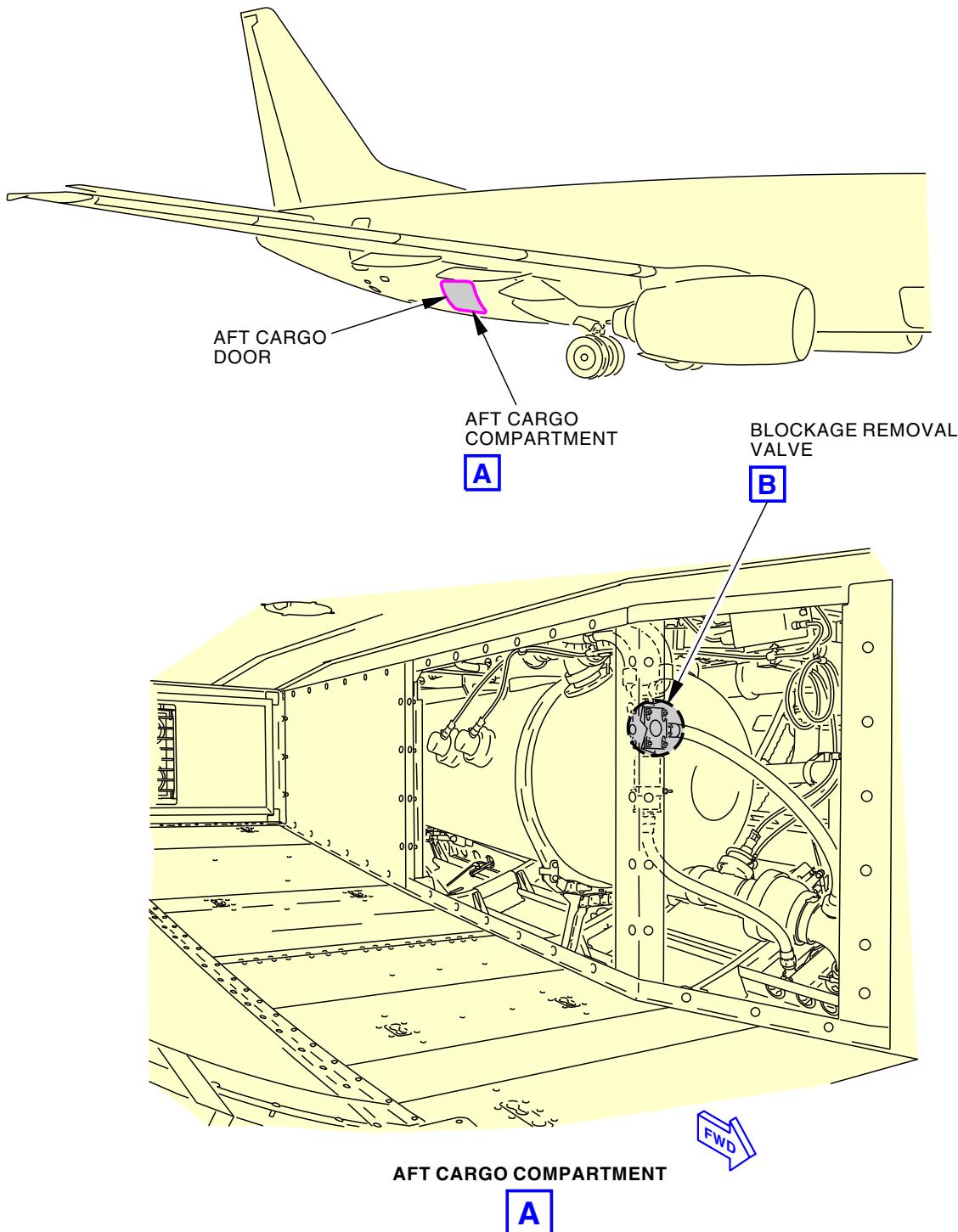
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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AIRCRAFT MAINTENANCE MANUAL



G20003 S0006578759_V2

Waste Tank Drain Line Blockage Removal Valve Installation
Figure 401/38-32-13-990-801 (Sheet 1 of 2)

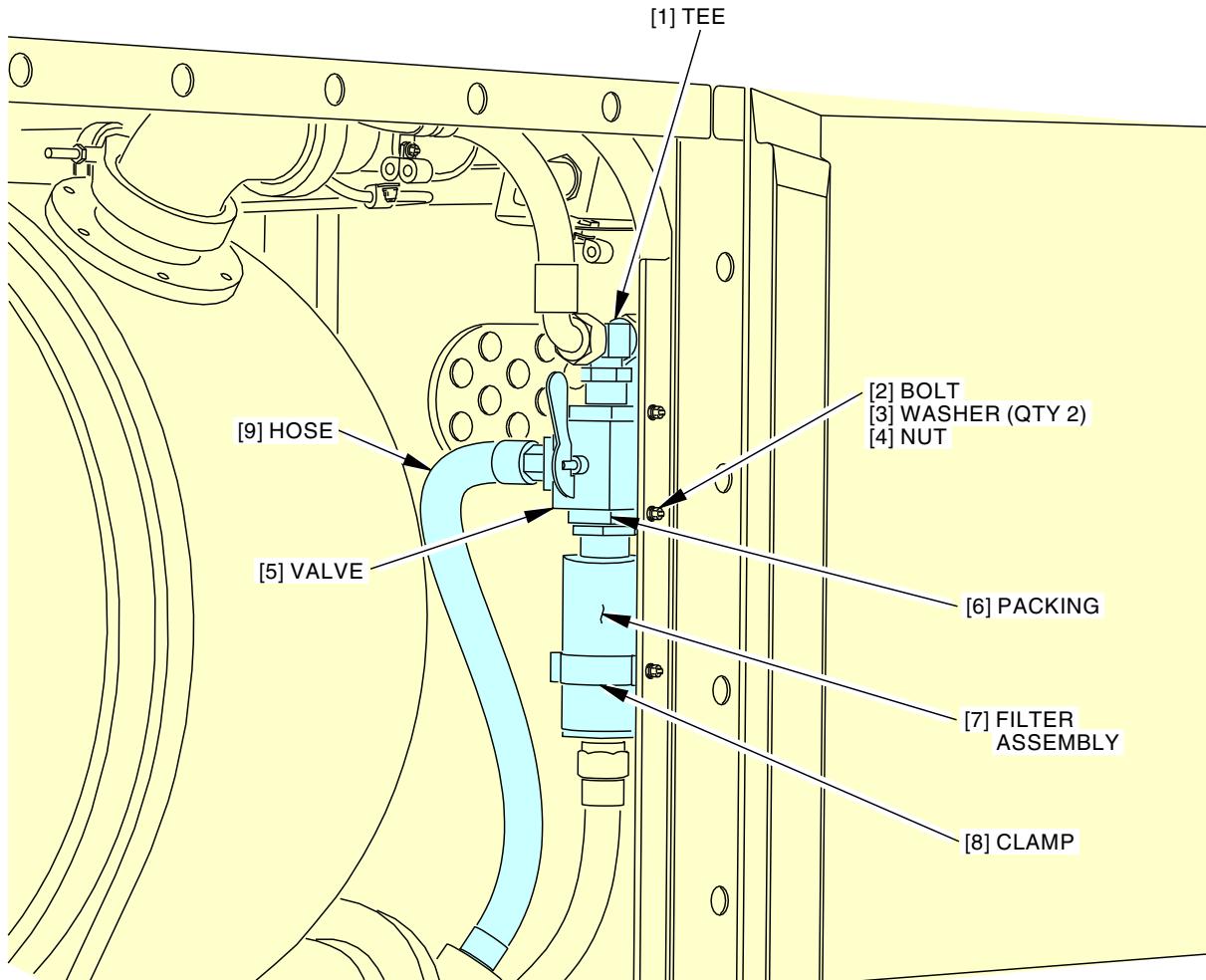
EFFECTIVITY
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
422-431

38-32-13

D633A101-LOM

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BLOCKAGE REMOVAL VALVE

B

G20099 S0006578760_V2

Waste Tank Drain Line Blockage Removal Valve Installation
Figure 401/38-32-13-990-801 (Sheet 2 of 2)

EFFECTIVITY
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
422-431

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WASTE TANK QUANTITY INDICATION - ADJUSTMENT/TEST

1. General

- A. This procedure has these tasks:
- (1) A LAVS INOP Built-In-Test Equipment (BITE) Test of the waste indication system from the attendant's panel.
 - (2) A Logic Control Module (LCM) BITE Test of the quantity indication system for the waste tank.
 - (3) An Auto Zero Adjustment of the Continuous Level Sensor (CLS) for the waste tanks.
 - (a) Use the Auto Zero procedure to calibrate the CLS. The CLS measures the quantity of waste in the waste tank. When you replace the CLS, you must do the Auto Zero Adjustment. You must also do the Auto Zero Adjustment when you move the CLSdiaphragm, the CLS, or the waste tank. The procedure will calibrate the CLS with the LCM to give a more accurate value for the waste quantity indicator.
 - (b) If the waste level indication is not accurate, you can do the Auto Zero procedure to calibrate the CLS.
 - (4) An operational test of the waste quantity indication at the attendant's panel.

TASK 38-33-00-740-801

2. LAVS INOP BITE Test at the Attendant's Panel

(Figure 502 or Figure 503)

A. General

- (1) This task is for a test of the waste indication system from the attendant's panel.

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Prepare for the test

SUBTASK 38-33-00-010-001

- (1) Get access to the passenger compartment.

D. LAVS INOP BITE Test

LOM 427-434, 437-447, 450-999

SUBTASK 38-33-00-740-007

- (1) Select the Maintenance display from the attendant's panel touch screen.
- (2) Push and then release the VACUUM WASTE button.
- (3) Push and then release the LAVS INOP Test button.
- (4) Make sure the LAVS INOP light is on for approximately 3 seconds and then is off.
- (5) Make sure the CLEAN/CHECK SENSOR light is off.
 - (a) If the CLEAN/CHECK SENSOR light is on, do this task: LCM BITE Test, TASK 38-33-00-740-802.

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426

SUBTASK 38-33-00-740-001

- (6) Push and then release the LAVS INOP Test switch.
- (7) Make sure the LAVS INOP light is on for approximately 3 seconds and then is off.

EFFECTIVITY
LOM ALL

38-33-00



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

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)

- (8) Make sure the waste indicator moves toward a full indication during the 3 second increment.
- (9) Make sure the CLEAN/CHECK SENSOR light is off.
 - (a) If the CLEAN/CHECK SENSOR light is on, do this task: LCM BITE Test, TASK 38-33-00-740-802.

LOM ALL

E. Put the Airplane Back to Its Usual Condition

SUBTASK 38-33-00-410-001

- (1) Close the access to the passenger compartment.

————— END OF TASK —————

TASK 38-33-00-740-802

3. LCM BITE Test

(Figure 501)

A. General

- (1) This task is for a full test of the LCM for the waste indication system at the LCM.
- (2) There is a task for a test of the waste indication system from the attendant's panel. The attendant's panel test is equivalent but it is not necessary to remove the panel for the waste enclosure.

B. References

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
25-52-20-000-801	Waste Tank Enclosure Panel - Removal (P/B 401)
25-52-20-400-801	Waste Tank Enclosure Panel - Installation (P/B 401)

C. Location Zones

Zone	Area
142	Aft Cargo Compartment - Right

D. Access Panels

Number	Name/Location
822	Aft Cargo Door

E. Prepare for the test

SUBTASK 38-33-00-860-005

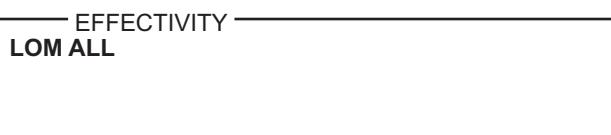
- (1) Make sure that this circuit breaker is closed:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
D	19	C01423	VACUUM WASTE

SUBTASK 38-33-00-860-006

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



38-33-00



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SUBTASK 38-33-00-010-002

- (3) Open this access panel:

Number Name/Location
822 Aft Cargo Door

SUBTASK 38-33-00-010-003

- (4) To get access to the waste tanks, do this task: Waste Tank Enclosure Panel - Removal, TASK 25-52-20-000-801.

F. LCM BITE Test

SUBTASK 38-33-00-860-007



CAUTION

USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (1) Make sure the POWER ON (green) light for the LCM is on.

- (a) Make sure the J1, J2, J3, and TANK FULL (red) lights are off.

SUBTASK 38-33-00-760-001

- (2) Move and then hold the switch to the TEST SENSOR position.

SUBTASK 38-33-00-740-005

- (3) Make sure the POWER ON (green), J1, J2, J3, and TANK FULL (red) lights are on for approximately 3 seconds.

NOTE: The lights on the LCM can flash irregularly. If you find a system error, the TANK FULL light will flash at 8 Hz, then go off. You will see this cycle again after 1.6 seconds until you correct the problem.

SUBTASK 38-33-00-760-002

- (4) Release the switch from the TEST SENSOR position.

SUBTASK 38-33-00-740-006

- (5) Make sure the J1, J2, J3, and TANK FULL (red) lights are off.

G. Put the Airplane Back to Its Usual Condition

SUBTASK 38-33-00-410-002



WARNING

SEAL THE CARGO COMPARTMENT WITH THE LINING. OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN YOU INSTALL THE LINING. IF YOU INSTALL THE LINING INCORRECTLY, THE SMOKE CAN GET INTO THE PASSENGER COMPARTMENT DURING A FIRE.

- (1) Do this task: Waste Tank Enclosure Panel - Installation, TASK 25-52-20-400-801.

SUBTASK 38-33-00-410-003

- (2) Close this access panel:

Number Name/Location
822 Aft Cargo Door

———— END OF TASK ————

EFFECTIVITY
LOM ALL

38-33-00



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AIRCRAFT MAINTENANCE MANUAL

TASK 38-33-00-710-801

4. Auto Zero - Test

(Figure 501)

A. References

Reference	Title
12-17-01-610-801	Waste Tank Servicing (P/B 301)
24-22-00-860-811	Supply Electrical Power (P/B 201)
25-52-20-000-801	Waste Tank Enclosure Panel - Removal (P/B 401)
25-52-20-400-801	Waste Tank Enclosure Panel - Installation (P/B 401)

B. Location Zones

Zone	Area
142	Aft Cargo Compartment - Right

C. Access Panels

Number	Name/Location
822	Aft Cargo Door

D. Prepare for the test:

SUBTASK 38-33-00-610-001

- (1) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.

NOTE: Do not add the chemical precharge after you do the task to drain and then flush the waste tanks.

SUBTASK 38-33-00-860-008

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
D	19	C01423	VACUUM WASTE

SUBTASK 38-33-00-860-009

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

SUBTASK 38-33-00-010-004

- (4) Open this access panel:

Number	Name/Location
822	Aft Cargo Door

SUBTASK 38-33-00-010-005

- (5) To get access to the waste tanks, do this task: Waste Tank Enclosure Panel - Removal, TASK 25-52-20-000-801.

E. Auto Zero Adjustment

SUBTASK 38-33-00-860-010



MAKE SURE YOU DRAIN THE WASTE TANK FULLY BEFORE THE AUTO ZERO ADJUSTMENT. IF YOU DO NOT DRAIN THE WASTE TANK FULLY, AN ERROR IN THE QUANTITY INDICATOR CAN OCCUR.

EFFECTIVITY
LOM ALL

38-33-00



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(CAUTION PRECEDES)



CAUTION

USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (1) Make sure the waste tanks are fully drained.

SUBTASK 38-33-00-860-011

- (2) On the LCM, make sure the lights are as follows:
 - (a) Make sure the POWER ON (green) light is on.
 - (b) Make sure the J1 and J2 (red) lights are off.
 - (c) Make sure the J3 and TANK FULL (red) lights are off or flash.

SUBTASK 38-33-00-760-003

- (3) Move and then hold the switch to the TEST LAMPS position.
 - (a) Make sure the POWER ON (green), the J1 and J2, and the J3 and TANK FULL (red) lights are on.

SUBTASK 38-33-00-760-004

- (4) Release the switch from the TEST LAMPS position.
 - (a) Make sure the J1, J2, J3, and TANK FULL (red) lights are off.

NOTE: During this step the J3 or TANK FULL (red) lights can flash without a problem.

SUBTASK 38-33-00-020-001

- (5) Disconnect the electrical connectors from the SENSOR J1 and SENSOR J2 positions on the LCM.
 - (a) After 30 seconds, make sure the J1, J2, and TANK FULL (red) lights are on.

SUBTASK 38-33-00-710-001

- (6) Move and then hold the switch to the TEST LAMPS position.
 - (a) After 10 seconds, make sure the J1, J2, J3, and TANK FULL (red) lights are off for 3 seconds.
 - (b) Make sure the POWER ON (green) light is on.

SUBTASK 38-33-00-760-005

- (7) Release the switch from the TEST LAMPS position.
 - (a) Make sure the POWER ON (green), J1, J2, and TANK FULL (red) lights are on.

SUBTASK 38-33-00-420-001

- (8) Connect the electrical connector for the SENSOR J1 to the LCM.
 - (a) Make sure the J1 and TANK FULL (red) lights are off.
 - (b) Make sure the POWER ON (green) and J2 (red) lights are on.

SUBTASK 38-33-00-420-002

- (9) Connect the electrical connector for the SENSOR J2 to the LCM.
 - (a) Make sure the J1, J2, J3, and TANK FULL (red) lights are off.
 - (b) Make sure the POWER ON (green) light is on.

EFFECTIVITY
LOM ALL

38-33-00



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F. Put the Airplane Back to Its Usual Condition

SUBTASK 38-33-00-410-004



WARNING

SEAL THE CARGO COMPARTMENT WITH THE LINING. OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN YOU INSTALL THE LINING. IF YOU INSTALL THE LINING INCORRECTLY, THE SMOKE CAN GET INTO THE PASSENGER COMPARTMENT DURING A FIRE.

- (1) Do this task: Waste Tank Enclosure Panel - Installation, TASK 25-52-20-400-801.

SUBTASK 38-33-00-410-005

- (2) Close this access panel:

Number Name/Location

822 Aft Cargo Door

SUBTASK 38-33-00-610-002

- (3) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.

———— END OF TASK ————

TASK 38-33-00-710-802

5. Attendant's Panel Waste Tank Quantity Indication - Operational Test

(Figure 502 or Figure 503)

A. References

Reference	Title
12-17-01-610-801	Waste Tank Servicing (P/B 301)
24-22-00-860-811	Supply Electrical Power (P/B 201)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Prepare for the test:

SUBTASK 38-33-00-610-003

- (1) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.

NOTE: Do not add the chemical precharge after you do the task to drain and flush the waste tanks. Do not disconnect the rinse water connection from the rinse fitting assembly. Do not disconnect the waste connection from the waste drain valve assembly.

SUBTASK 38-33-00-860-012

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
D	19	C01423	VACUUM WASTE

SUBTASK 38-33-00-860-013

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

SUBTASK 38-33-00-010-006

- (4) Get access to the passenger compartment.

EFFECTIVITY
LOM ALL

38-33-00



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D. Attendant's Panel Waste Tank Quantity Indication - Operational Test

SUBTASK 38-33-00-860-014

- (1) Make sure the waste drain ball valve is closed.

LOM 427-434, 437-447, 450-999

SUBTASK 38-33-00-710-005

- (2) Touch Environment on the attendant's panel touch screen.
 - (a) Make sure the indicator for Vacuum Waste is near E.

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426

SUBTASK 38-33-00-710-002

- (3) Read the waste tank quantity from the Waste System indicator on the attendant's panel.
 - (a) Make sure the Waste System indicator reads E or 1 flow bar.

LOM ALL

SUBTASK 38-33-00-610-004



CAUTION

DO NOT ADD MORE THAN 60 GALLONS (227 LITERS) TO THE WASTE TANK. IF YOU ADD MORE THAN 60 GALLONS (227 LITERS) TO THE WASTE TANK, DAMAGE TO THE EQUIPMENT CAN OCCUR.

- (4) Add 30 ± 1 gallons (114 ± 4 liters) of water at the rinse water connection for the waste tank.

LOM 427-434, 437-447, 450-999

SUBTASK 38-33-00-710-007

- (5) Touch Environment on the attendant's panel touch screen.
 - (a) Make sure the indicator for Vacuum Waste is near 1/2.

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426

SUBTASK 38-33-00-710-003

- (6) Read the waste tank quantity on the Waste System indicator on the attendant's panel.
 - (a) Make sure the Waste System indicator reads $1/2 \pm 1$ flow bars.

LOM ALL

SUBTASK 38-33-00-610-005

- (7) Pull the handle at the service panel to open the waste drain ball valve for the waste tank.

LOM 427-434, 437-447, 450-999

SUBTASK 38-33-00-710-006

- (8) Touch Environment on the attendant's panel touch screen.
 - (a) Make sure the indicator for Vacuum Waste is near E.

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426

SUBTASK 38-33-00-710-004

- (9) Read the waste tank quantity on the Waste System indicator on the attendant's panel.
 - (a) Make sure the Waste System indicator reads E.

LOM ALL

SUBTASK 38-33-00-860-015

- (10) Push the handle at the service panel to close the waste drain ball valve for the waste tank.

EFFECTIVITY
LOM ALL

38-33-00



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E. Put the Airplane Back to Its Usual Condition

SUBTASK 38-33-00-410-006

- (1) Close the access to the passenger compartment.

SUBTASK 38-33-00-610-006

- (2) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.

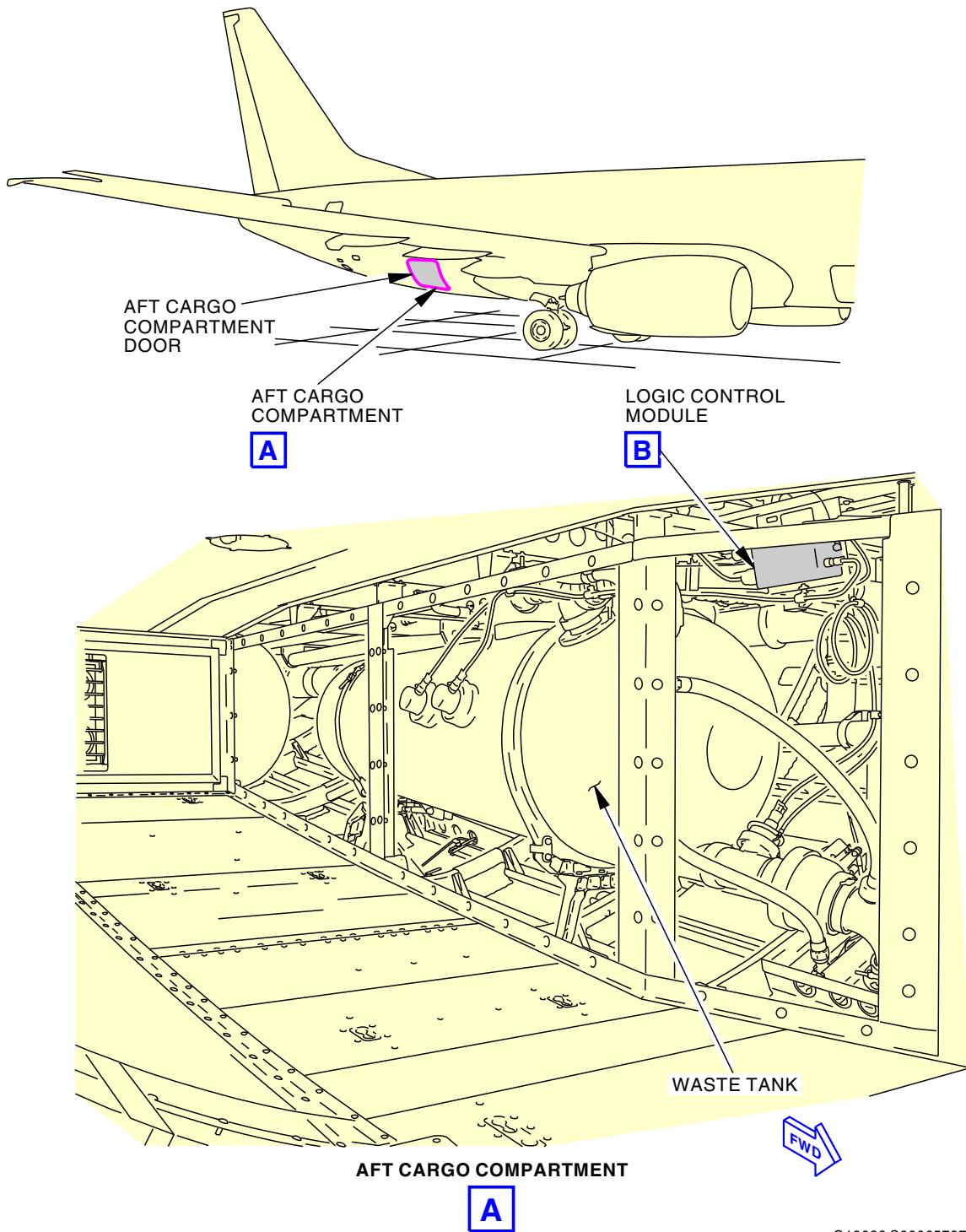
———— END OF TASK ————

— EFFECTIVITY —
LOM ALL

38-33-00

BOEING

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Logic Control Module Test
Figure 501/38-33-00-990-801 (Sheet 1 of 2)

EFFECTIVITY
LOM ALL

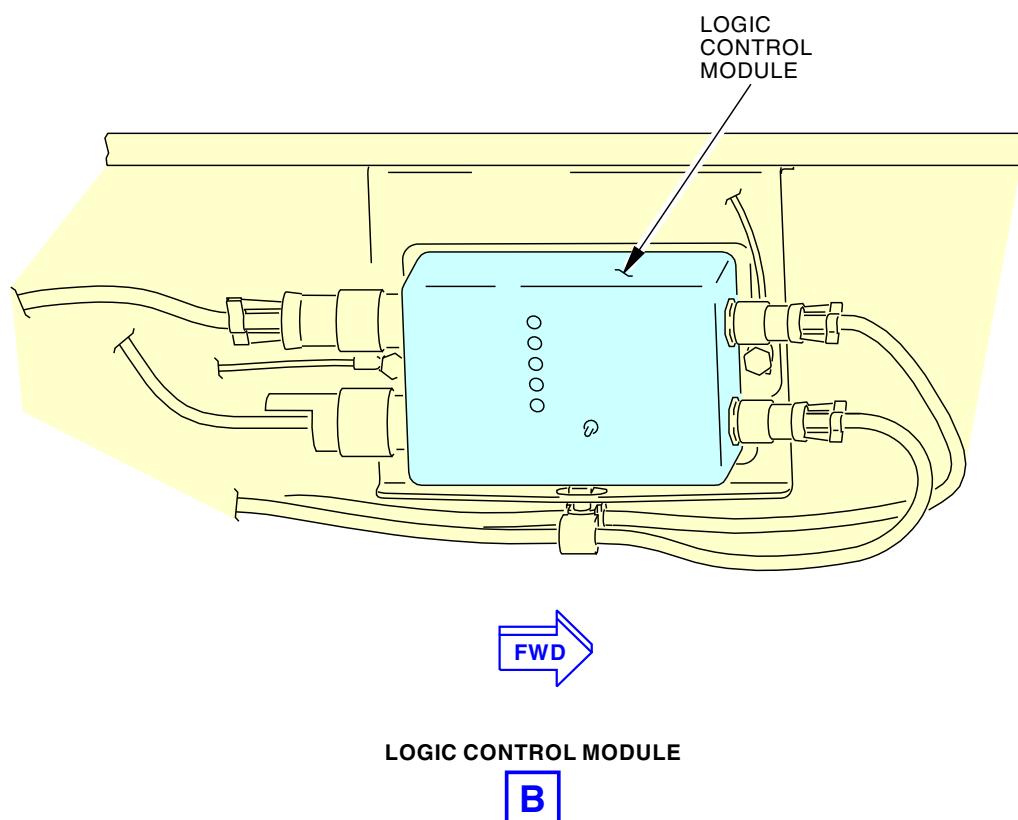
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Logic Control Module Test
Figure 501/38-33-00-990-801 (Sheet 2 of 2)

EFFECTIVITY
LOM ALL

38-33-00

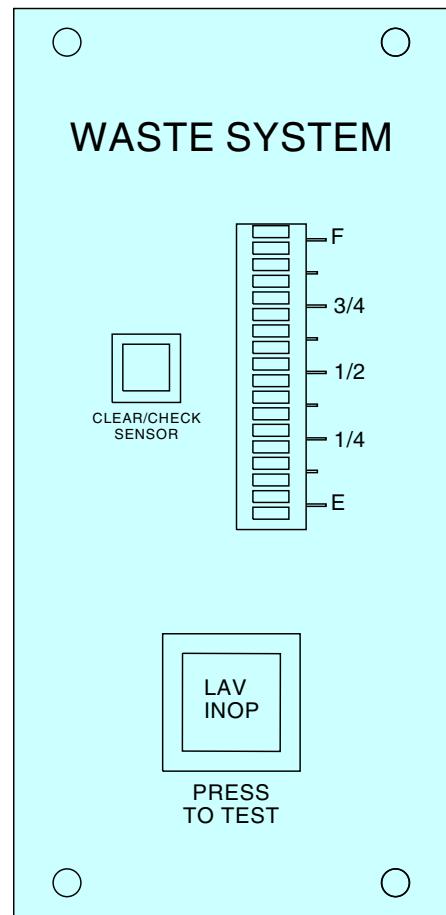
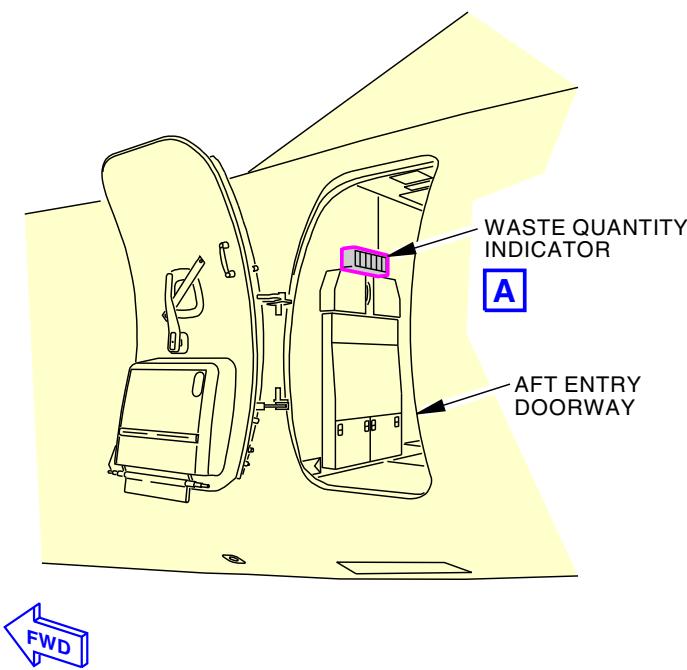
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G41493 S0006578773_V3

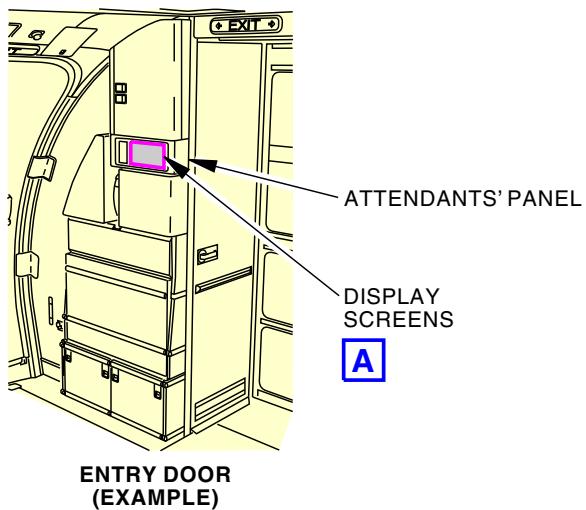
Attendant's Panel Waste Quantity Indicator Operational Test
Figure 502/38-33-00-990-802

EFFECTIVITY
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
422-426

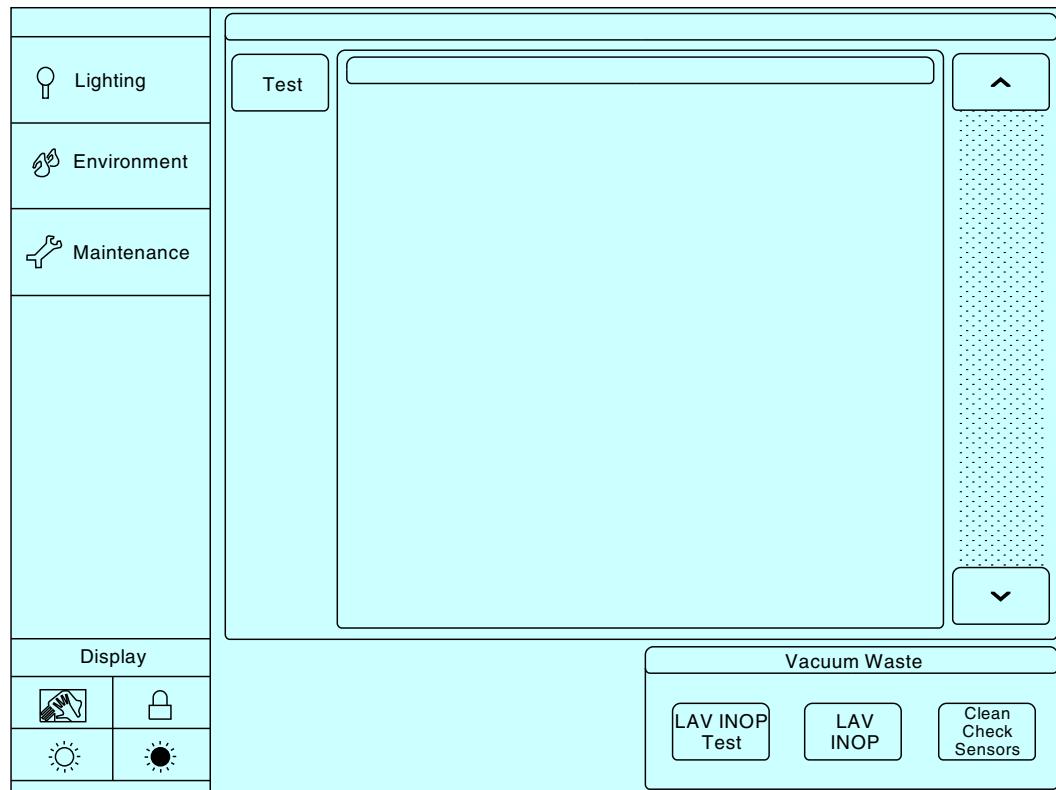
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ENTRY DOOR
(EXAMPLE)



MAINTENANCE DISPLAY, AFT ACP
(V4 SOFTWARE VERSION)

A

2092536 S0000442213_V5

Attendant's Panel Waste Quantity Indicator Operational Test
Figure 503/38-33-00-990-803 (Sheet 1 of 4)

EFFECTIVITY
LOM 427-434, 437-447, 450-999

38-33-00

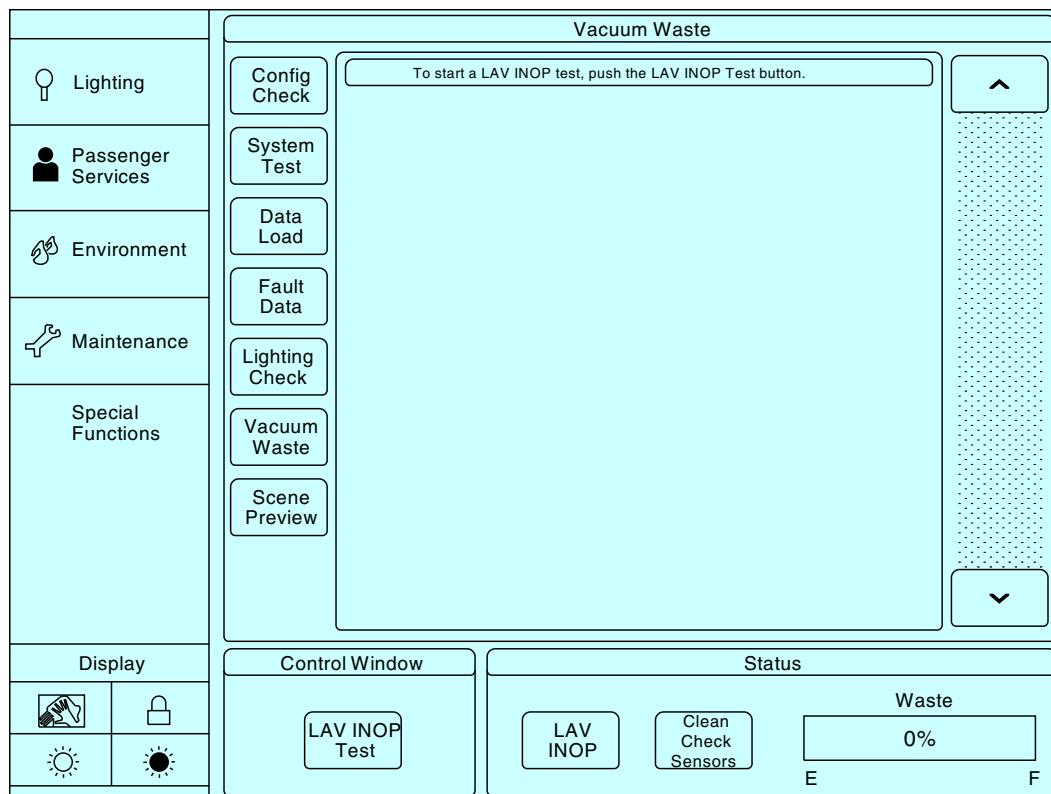
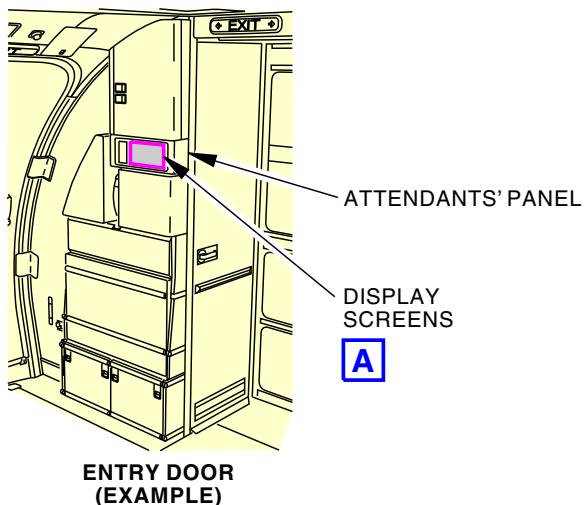
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MAINTENANCE DISPLAY, FORWARD ACP
(V5 SOFTWARE VERSION)

A

2304640 S0000522793_V2

Attendant's Panel Waste Quantity Indicator Operational Test
Figure 503/38-33-00-990-803 (Sheet 2 of 4)

EFFECTIVITY
LOM 427-434, 437-447, 450-999

38-33-00

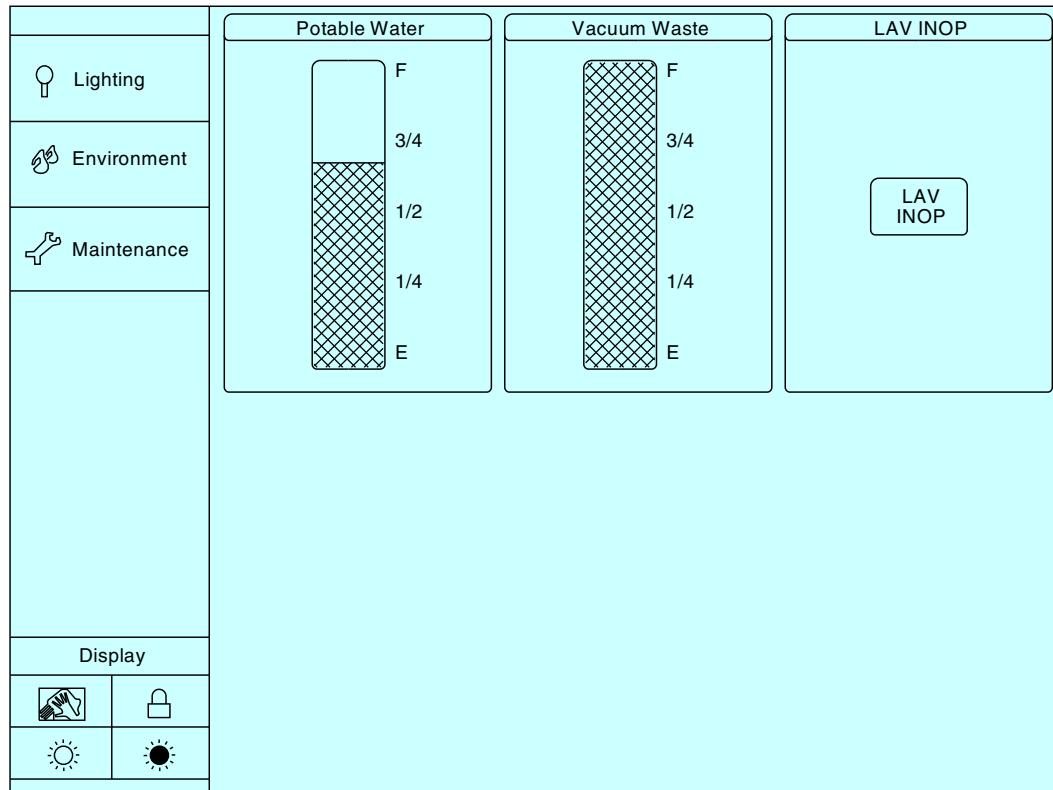
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ENVIRONMENT DISPLAY, AFT ACP
(V4 SOFTWARE VERSION)

A

2092538 S0000442214_V5

Attendant's Panel Waste Quantity Indicator Operational Test
Figure 503/38-33-00-990-803 (Sheet 3 of 4)

EFFECTIVITY
LOM 427-434, 437-447, 450-999

38-33-00

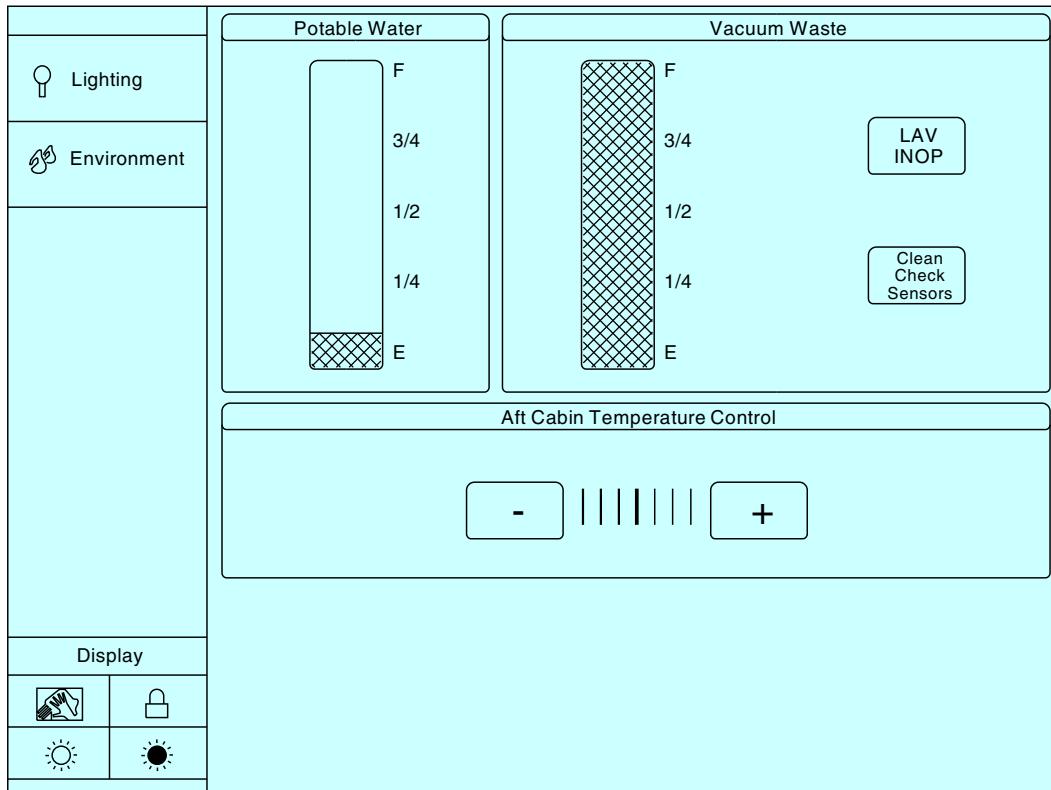
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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AIRCRAFT MAINTENANCE MANUAL



ENVIRONMENT DISPLAY, AFT ACP
(V5 SOFTWARE VERSION)

A

2304660 S0000522794_V2

Attendant's Panel Waste Quantity Indicator Operational Test
Figure 503/38-33-00-990-803 (Sheet 4 of 4)

EFFECTIVITY
LOM 427-434, 437-447, 450-999

38-33-00



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WASTE TANK POINT LEVEL SENSOR - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
- (1) A removal of the point level sensor for the waste tank.
 - (2) An installation of the point level sensor for the waste tank.

TASK 38-33-01-000-801

2. Waste Tank Point Level Sensor Removal

(Figure 401)

A. References

Reference	Title
12-17-01-610-801	Waste Tank Servicing (P/B 301)
25-52-20-000-801	Waste Tank Enclosure Panel - Removal (P/B 401)
38-32-00-910-801	Standard Practices for Work with the Toilet Waste and Equipment (P/B 201)

B. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
141	Aft Cargo Compartment - Left

C. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
822	Aft Cargo Door

D. Prepare for the Removal

SUBTASK 38-33-01-610-001

- (1) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.

NOTE: Do not add the chemical precharge after you do the task to drain and flush the waste tanks.

SUBTASK 38-33-01-010-001

- (2) Open this access panel:

Number	Name/Location
822	Aft Cargo Door

SUBTASK 38-33-01-010-002

- (3) Do this task: Waste Tank Enclosure Panel - Removal, TASK 25-52-20-000-801.

SUBTASK 38-33-01-860-003

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
D	19	C01423	VACUUM WASTE

EFFECTIVITY
LOM ALL

38-33-01



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SUBTASK 38-33-01-010-010

- (5) To get access to the P91 panel, open this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-33-01-010-009



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.

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

Power Distribution Panel Number 1, P91

Row Col Number Name

C 11 C01388 VACUUM WASTE CONT

SUBTASK 38-33-01-910-001



CAUTION

USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (7) Do this task: Standard Practices for Work with the Toilet Waste and Equipment, TASK 38-32-00-910-801.

E. Point Level Sensor Removal

SUBTASK 38-33-01-020-001

- (1) Disconnect the electrical connector [2] from the point level sensor [5].

SUBTASK 38-33-01-020-002

- (2) Remove the V-band clamp [1].

SUBTASK 38-33-01-020-003

- (3) Remove the point level sensor [5] and gask-O-seal [4] from the mounting flange of the waste tank.

(a) Discard the gask-O-seal [4].

SUBTASK 38-33-01-020-004

- (4) Remove the packing [3] from the point level sensor [5].

(a) Discard the packing [3].

EFFECTIVITY
LOM ALL

38-33-01



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SUBTASK 38-33-01-160-001

- (5) Clean all the waste material from the hole in the waste tank for the point level sensor [5].

———— END OF TASK ————

— EFFECTIVITY —
LOM ALL

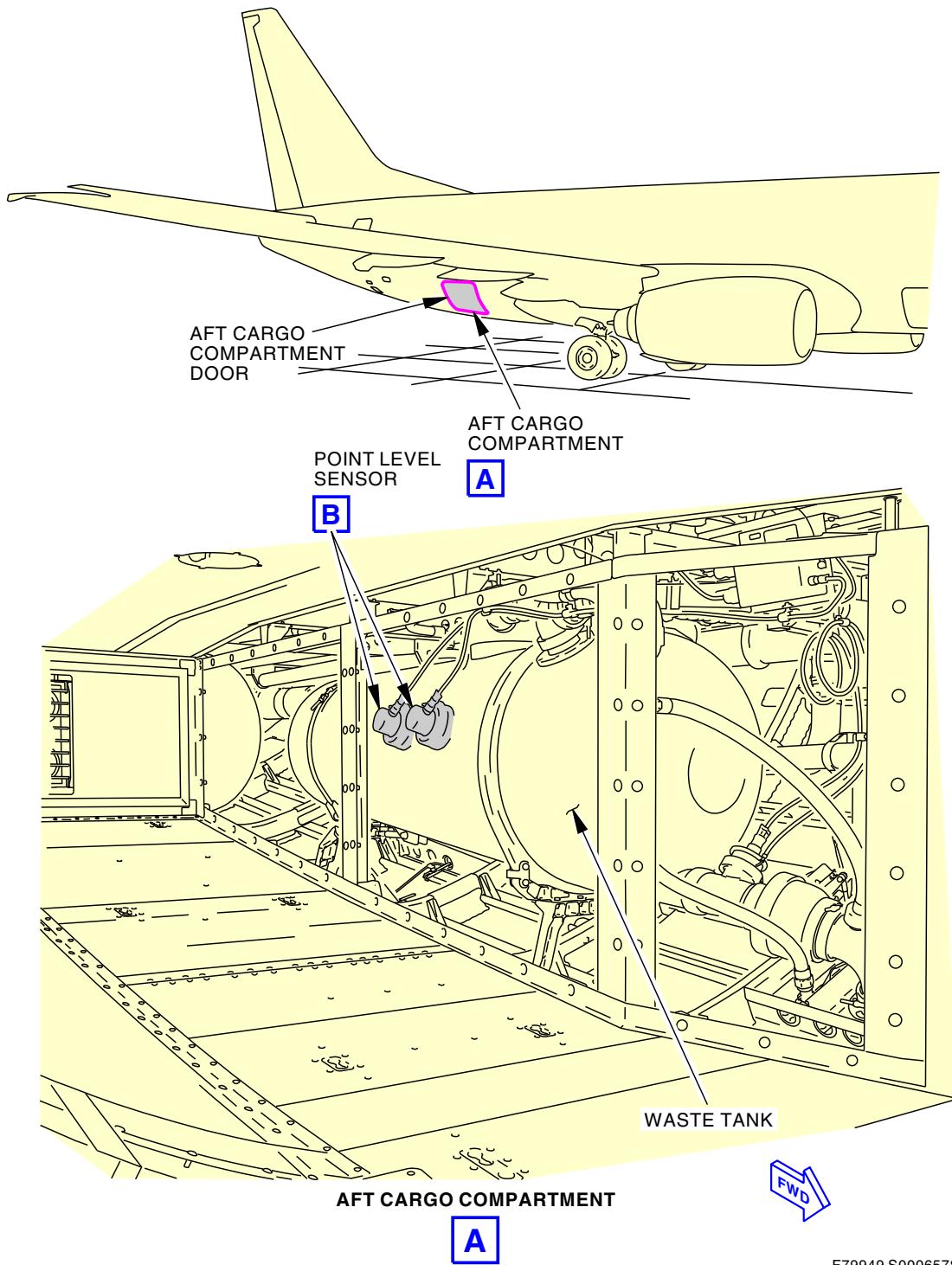
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F79949 S0006578780_V2

Waste Tank Point Level Sensor Installation
Figure 401/38-33-01-990-802 (Sheet 1 of 2)

EFFECTIVITY
LOM ALL

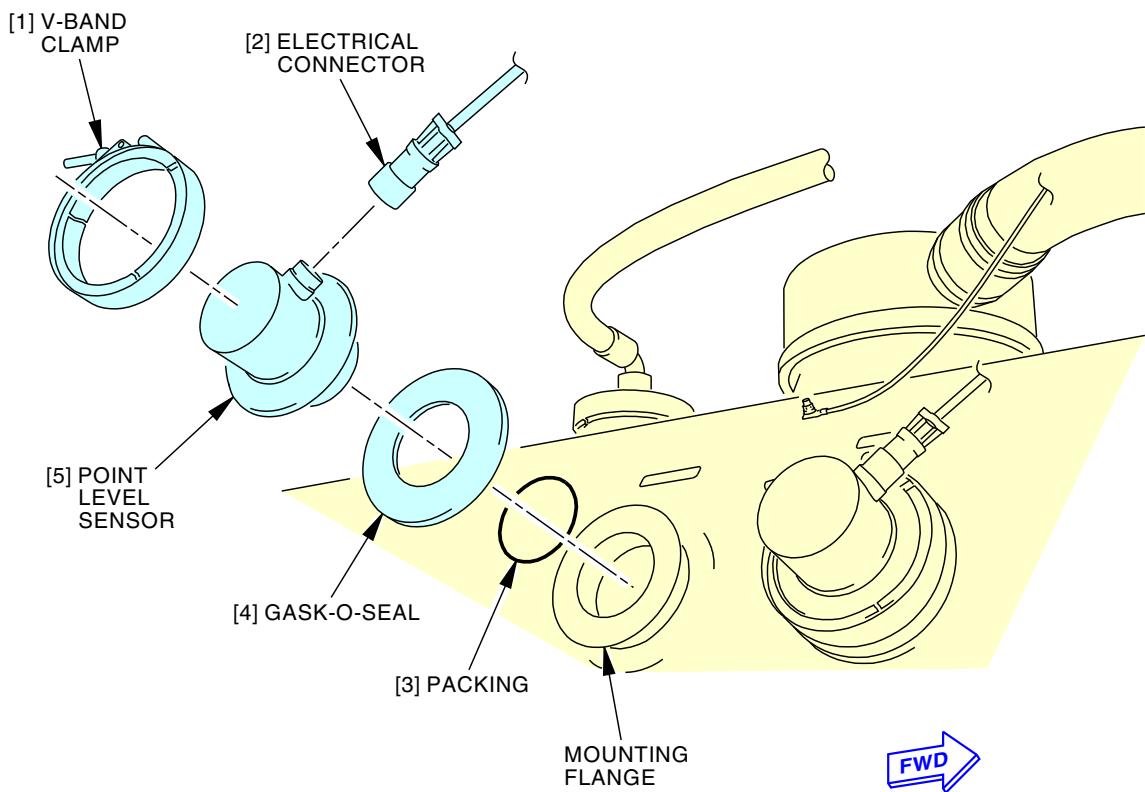
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ECCN 9E991 BOEING PROPRIETARY - See title page for details



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AIRCRAFT MAINTENANCE MANUAL



F79962 S0006578782_V2

Waste Tank Point Level Sensor Installation
Figure 401/38-33-01-990-802 (Sheet 2 of 2)

EFFECTIVITY
LOM ALL

38-33-01

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TASK 38-33-01-400-801

3. Waste Tank Point Level Sensor Installation

(Figure 401)

A. References

Reference	Title
12-17-01-610-801	Waste Tank Servicing (P/B 301)
24-22-00-860-811	Supply Electrical Power (P/B 201)
25-52-20-400-801	Waste Tank Enclosure Panel - Installation (P/B 401)
38-33-00-740-802	LCM BITE Test (P/B 501)

B. Consumable Materials

Reference	Description	Specification
D00128	Grease - Silicone	A-A-59173
D00189	Compound - Molykote 111 (Formerly Dow Corning 111, Valve Sealant and Lubricant)	

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
3	Packing	38-33-01-50-070	LOM ALL
4	Gask-O-seal	38-33-01-50-075	LOM ALL
5	Point level sensor	38-33-01-50-065	LOM ALL

D. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
141	Aft Cargo Compartment - Left

E. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
822	Aft Cargo Door

F. Point Level Sensor Installation

SUBTASK 38-33-01-640-001



USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (1) Apply grease, D00128, or Molykote 111 Compound, D00189, to the gask-O-seal [4], packing [3], and mounting flange of the waste tank.

SUBTASK 38-33-01-420-001

- (2) Install the packing [3] on the point level sensor [5].

SUBTASK 38-33-01-420-002

- (3) Install the gask-O-seal [4] on the mounting flange of the waste tank.

SUBTASK 38-33-01-420-003

- (4) Install the point level sensor [5] and V-band clamp [1].

SUBTASK 38-33-01-420-004

- (5) Tighten the V-band clamp [1] to 40 in-lb (4.5 N·m) - 50 in-lb (5.6 N·m).

EFFECTIVITY
LOM ALL

38-33-01



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SUBTASK 38-33-01-420-005

- (6) Connect the electrical connector [2] to the point level sensor [5].

G. Point Level Sensor Installation Test

SUBTASK 38-33-01-860-001



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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT

SUBTASK 38-33-01-860-004

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

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	19	C01423	VACUUM WASTE

SUBTASK 38-33-01-860-002

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

SUBTASK 38-33-01-760-001

- (4) Make sure that the Power On light on the Logic Control Module (LCM) is on.

SUBTASK 38-33-01-740-001

- (5) Set and hold the switch on the LCM to the TEST SENSORS position.

SUBTASK 38-33-01-740-002

- (6) Make sure that the J1 Sensor, J2 Sensor, J3 Sensor, Tank Full and Power On lights come on.

SUBTASK 38-33-01-740-003

- (7) Release the switch on the LCM.

SUBTASK 38-33-01-740-004

- (8) Make sure that the J1 Sensor, J2 Sensor, J3 Sensor, and Tank Full lights are off.

- (a) If the J1 Sensor light or J2 Sensor light is on, do this task: LCM BITE Test, TASK 38-33-00-740-802.

H. Put the Airplane Back to Its Usual Condition

SUBTASK 38-33-01-610-002

- (1) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.

EFFECTIVITY

LOM ALL

38-33-01



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SUBTASK 38-33-01-010-003



WARNING

SEAL THE CARGO COMPARTMENT WITH THE LINING. OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN YOU INSTALL THE LINING. IF YOU INSTALL THE LINING INCORRECTLY, THE SMOKE CAN GET INTO THE PASSENGER COMPARTMENT DURING A FIRE.

- (2) Do this task: Waste Tank Enclosure Panel - Installation, TASK 25-52-20-400-801.

SUBTASK 38-33-01-410-001

- (3) Close this access panel:

Number Name/Location

822 Aft Cargo Door

SUBTASK 38-33-01-410-005

- (4) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

———— END OF TASK ————

EFFECTIVITY
LOM ALL

38-33-01

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WASTE TANK POINT LEVEL SENSOR - CLEANING/PAINTING

1. General

- A. This procedure has this task:
- (1) A cleaning of the point level sensor for the waste tank.

TASK 38-33-01-100-801

2. Waste Tank Point Level Sensor Cleaning

A. References

Reference	Title
38-33-01-000-801	Waste Tank Point Level Sensor Removal (P/B 401)
38-33-01-400-801	Waste Tank Point Level Sensor Installation (P/B 401)

B. Tools/Equipment

Reference	Description
STD-123	Brush - Soft Bristle

C. Consumable Materials

Reference	Description	Specification
G00016	Acid, Hydrochloric	MIL-DTL-13528

D. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
141	Aft Cargo Compartment - Left

E. Point Level Sensor Cleaning

SUBTASK 38-33-01-020-005

- (1) Do this task: Waste Tank Point Level Sensor Removal, TASK 38-33-01-000-801.

SUBTASK 38-33-01-140-001

- (2) Use a rag to clean the loose material from the face of the point level sensor.

SUBTASK 38-33-01-140-002



BE VERY CAREFUL WITH THE FACE OF THE POINT LEVEL SENSOR. IF THERE ARE SCRATCHES OR OTHER DAMAGE, THE POINT LEVEL SENSOR WILL NOT OPERATE.

- (3) Use the soft bristle brush, STD-123, and soap to clean the face of the point level sensor.

SUBTASK 38-33-01-140-004

- (4) If it is necessary, use hydrochloric acid, G00016, to clean the face of the point level sensor.

NOTE: A neutral or alkali cleaning solution will not be effective in cleaning the material build-up on the sensor assembly after it has dried. Use an acidic-based solution to remove material deposit.

- (a) Apply hydrochloric acid, G00016, with a brush to the face of the point level sensor.
- (b) Keep hydrochloric acid, G00016, on the face of the point level sensor.
- (c) Rinse with water.

SUBTASK 38-33-01-140-003

- (5) Dry the point level sensor.

EFFECTIVITY
LOM ALL

38-33-01



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SUBTASK 38-33-01-160-002

- (6) Clean all the waste material from the hole in the waste tank for the point level sensor.

SUBTASK 38-33-01-020-006

- (7) Do this task: Waste Tank Point Level Sensor Installation, TASK 38-33-01-400-801.

———— END OF TASK ————

— EFFECTIVITY —
LOM ALL

38-33-01

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AIRCRAFT MAINTENANCE MANUAL

WASTE TANK CONTINUOUS LEVEL SENSOR - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
- (1) A removal of the continuous level sensor for the waste tank.
 - (2) An installation of the continuous level sensor for the waste tank.

TASK 38-33-02-000-801

2. Waste Tank Continuous Level Sensor Removal

(Figure 401)

A. References

Reference	Title
12-17-01-610-801	Waste Tank Servicing (P/B 301)
25-52-20-000-801	Waste Tank Enclosure Panel - Removal (P/B 401)
38-32-00-910-801	Standard Practices for Work with the Toilet Waste and Equipment (P/B 201)

B. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
141	Aft Cargo Compartment - Left

C. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
822	Aft Cargo Door

D. Prepare for the Removal

SUBTASK 38-33-02-610-001

- (1) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.

NOTE: Do not add the chemical precharge after you do the task to drain and flush the waste tanks.

SUBTASK 38-33-02-010-001

- (2) Open this access panel:

Number	Name/Location
822	Aft Cargo Door

SUBTASK 38-33-02-010-002

- (3) Do this task: Waste Tank Enclosure Panel - Removal, TASK 25-52-20-000-801.

SUBTASK 38-33-02-860-006

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
D	19	C01423	VACUUM WASTE



38-33-02



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SUBTASK 38-33-02-040-001

- (5) To get access to the P91 panel, open this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-33-02-860-007



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.

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

Power Distribution Panel Number 1, P91

Row	Col	Number	Name
C	11	C01388	VACUUM WASTE CONT

SUBTASK 38-33-02-910-001

- (7) Do this task: Standard Practices for Work with the Toilet Waste and Equipment, TASK 38-32-00-910-801.

E. Continuous Level Sensor Removal

SUBTASK 38-33-02-020-001



CAUTION

USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (1) Disconnect the electrical connector from the continuous level sensor [1].

SUBTASK 38-33-02-020-002

- (2) Remove the screw [16], washer [19], nut [20], clamp [17], and clamp [18] to disconnect the capillary tube.

SUBTASK 38-33-02-020-003

- (3) Remove the screw [6], washer [7], nut [10], clamp [8], and clamp [9] to disconnect the capillary tube.

SUBTASK 38-33-02-020-004

- (4) Remove the screw [11], washer [12], nut [15], clamp [13], and clamp [14] to disconnect the capillary tube.

SUBTASK 38-33-02-020-005

- (5) Remove the V-band clamp [4].

EFFECTIVITY
LOM ALL

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SUBTASK 38-33-02-020-006



CAUTION

DO NOT BEND THE CAPILLARY TUBE OF THE CONTINUOUS LEVEL SENSOR TO LESS THAN A 3-INCH RADIUS. SHARP BENDS CAN CAUSE DAMAGE TO THE CAPILLARY TUBE.

- (6) Remove the continuous level sensor [1] and gask-O-seal [5] from the waste line.

- (a) Discard the gask-O-seal [5].

SUBTASK 38-33-02-020-007

- (7) Remove the clamp [2].

SUBTASK 38-33-02-020-008

- (8) Remove the diaphragm half of the continuous level sensor [1] and gask-O-seal [3].

- (a) Discard the gask-O-seal [3].

SUBTASK 38-33-02-160-001

- (9) Clean all the waste material from the holes in the waste lines.

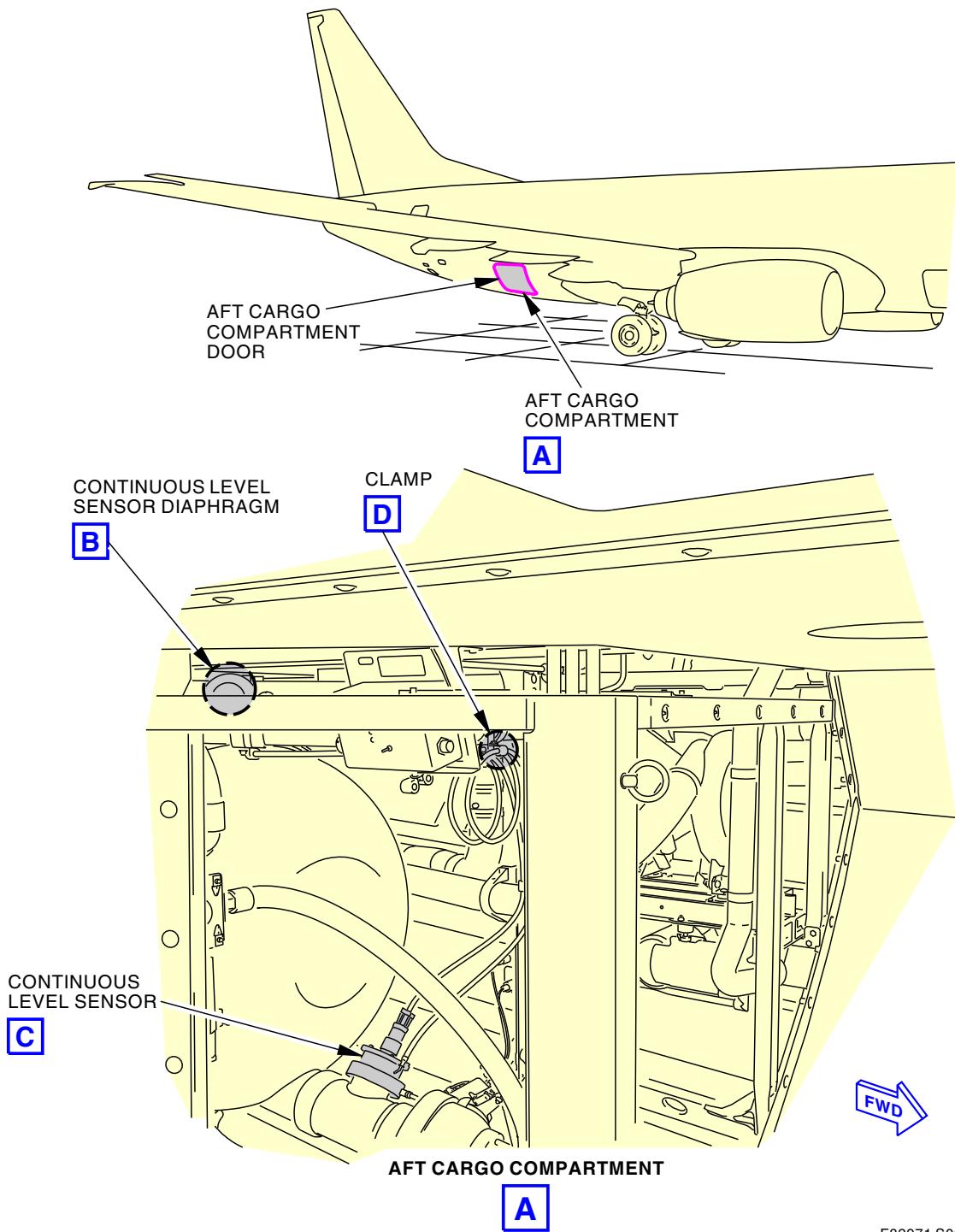
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EFFECTIVITY
LOM ALL

38-33-02



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AIRCRAFT MAINTENANCE MANUAL



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Waste Tank Continuous Level Sensor Installation
Figure 401/38-33-02-990-802 (Sheet 1 of 3)

EFFECTIVITY
LOM ALL

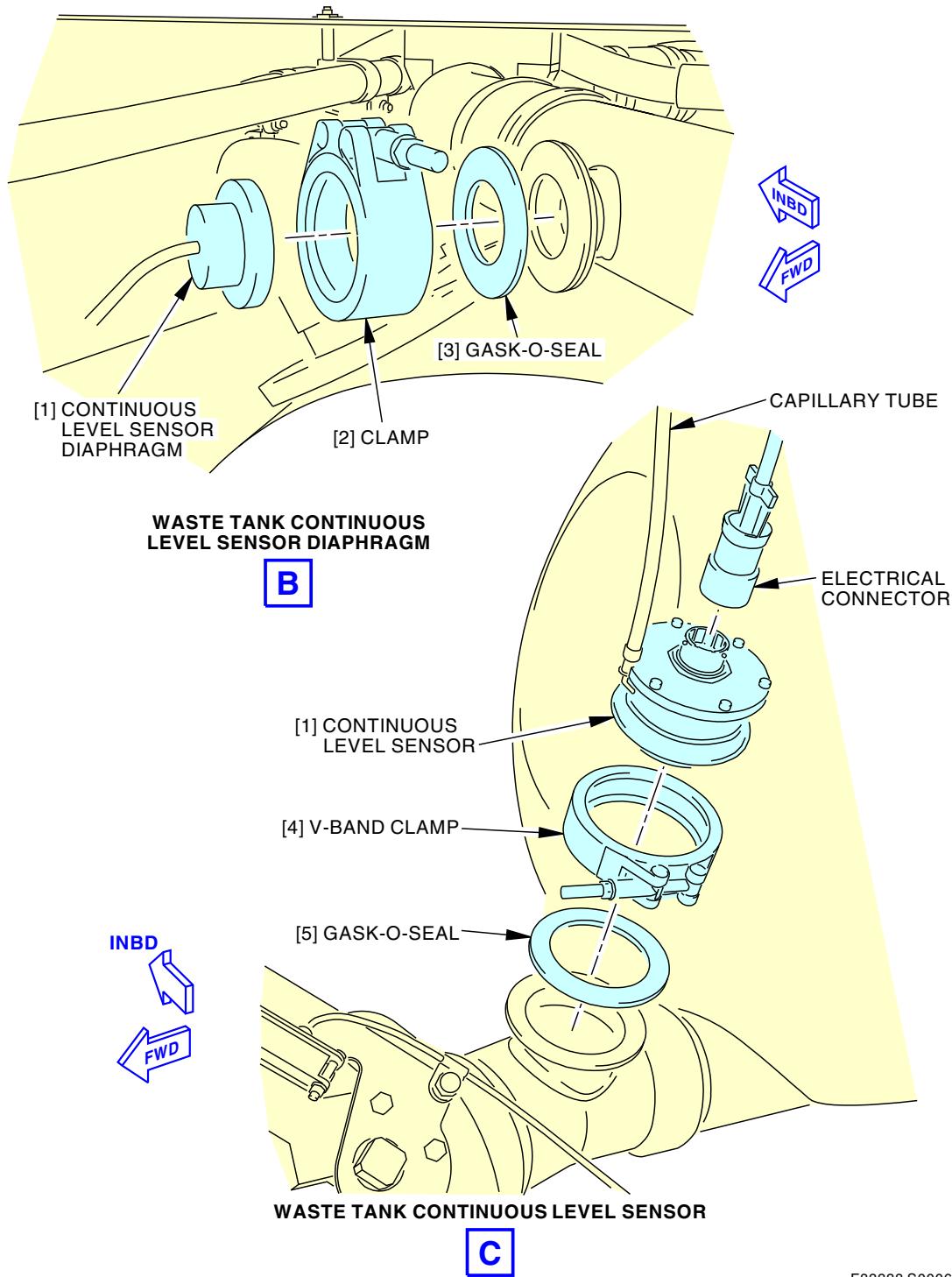
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ECCN 9E991 BOEING PROPRIETARY - See title page for details



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Waste Tank Continuous Level Sensor Installation
Figure 401/38-33-02-990-802 (Sheet 2 of 3)

EFFECTIVITY
LOM ALL

38-33-02

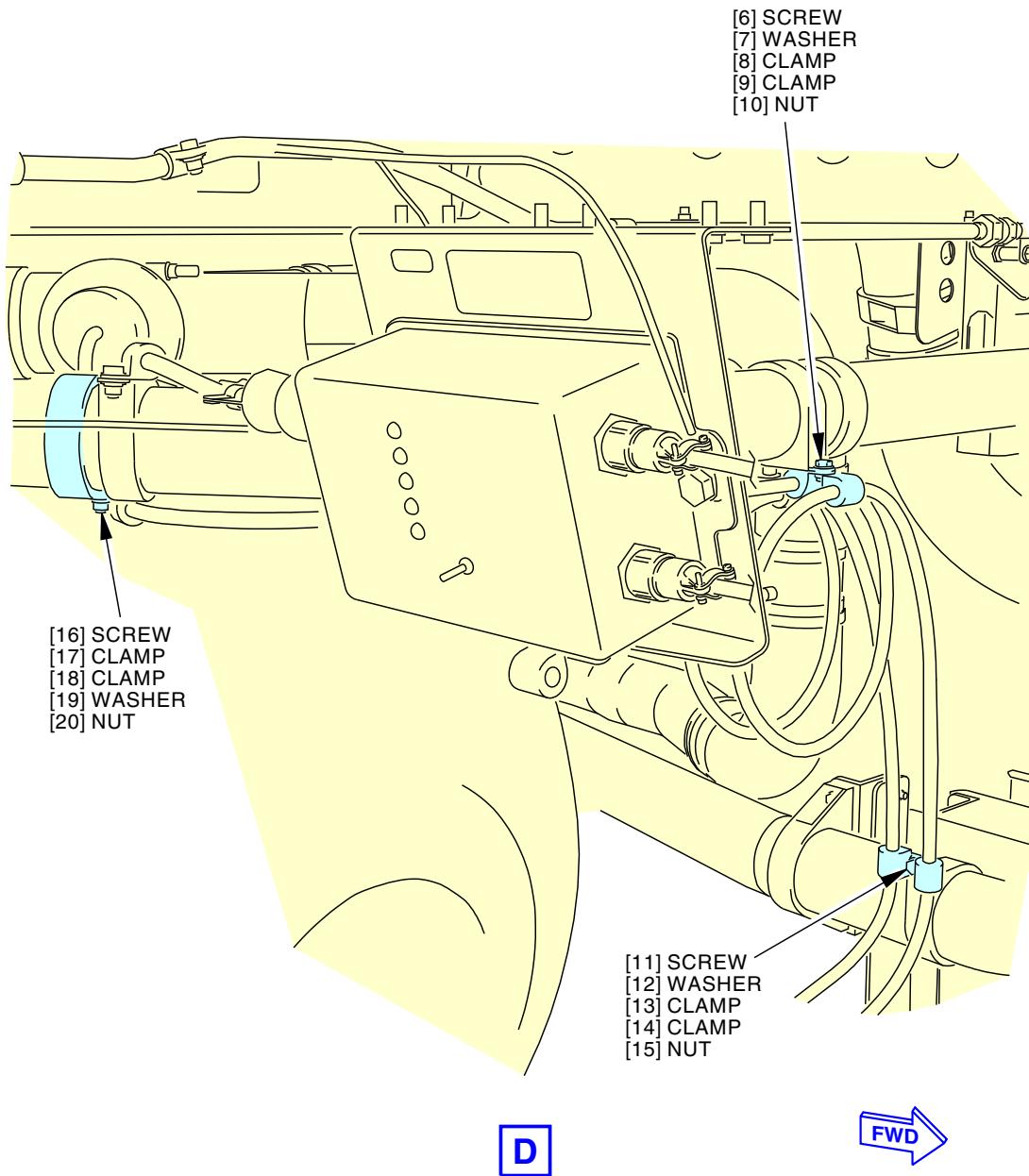
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AIRCRAFT MAINTENANCE MANUAL



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Waste Tank Continuous Level Sensor Installation
Figure 401/38-33-02-990-802 (Sheet 3 of 3)

EFFECTIVITY
LOM ALL

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TASK 38-33-02-400-801

3. Waste Tank Continuous Level Sensor Installation

(Figure 401)

A. References

Reference	Title
12-17-01-610-801	Waste Tank Servicing (P/B 301)
24-22-00-860-811	Supply Electrical Power (P/B 201)
25-52-20-400-801	Waste Tank Enclosure Panel - Installation (P/B 401)
38-33-00-710-801	Auto Zero - Test (P/B 501)

B. Tools/Equipment

Reference	Description
STD-1142	Equipment - Waste System Servicing

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Continuous level sensor	38-33-02-02-145 38-33-02-02A-090	LOM 402, 404 LOM 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-999
3	Gask-O-seal	38-33-02-02-130 38-33-02-02A-080	LOM 402, 404 LOM 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-999
5	Gask-O-seal	38-33-02-02-140 38-33-02-02A-085	LOM 402, 404 LOM 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-999

D. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
141	Aft Cargo Compartment - Left

E. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
145AL	Waste Service Door
822	Aft Cargo Door

F. Continuous Level Sensor Installation

SUBTASK 38-33-02-420-001



USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.



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(CAUTION PRECEDES)



CAUTION

DO NOT BEND THE CAPILLARY TUBE OF THE CONTINUOUS LEVEL SENSOR TO LESS THAN A 3-INCH RADIUS. SHARP BENDS CAN CAUSE DAMAGE TO THE CAPILLARY TUBE.

- (1) Install the diaphragm half of the continuous level sensor [1], clamp [2], and gask-O-seal [3].

SUBTASK 38-33-02-420-002

- (2) Tighten the clamp [2] to 40 in-lb (4.5 N·m).

SUBTASK 38-33-02-420-003

- (3) Install the V-band clamp [4] and gask-O-seal [5] to connect the continuous level sensor [1] in the waste line.

SUBTASK 38-33-02-420-004

- (4) Tighten the V-band clamp [4] to 45 in-lb (5.1 N·m).

SUBTASK 38-33-02-420-005

- (5) Install the clamp [17], clamp [18], screw [16], nut [20], and washers [19] for the capillary tube adjacent to the waste tank.

SUBTASK 38-33-02-420-006

- (6) Install the clamp [8], clamp [9], screw [6], nut [10], and washers [7] to connect the capillary tube outboard of Logic Control Module (LCM) for the waste tank.

SUBTASK 38-33-02-420-007

- (7) Install the clamp [13], clamp [14], screw [11], nut [15], and washers [12] to connect the capillary tube aft of the LCM for the waste tank.

SUBTASK 38-33-02-420-008

- (8) Connect the electrical connector to the continuous level sensor [1].

G. Continuous Level Sensor Installation Test

SUBTASK 38-33-02-860-001



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.

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

Power Distribution Panel Number 1, P91

Row	Col	Number	Name
C	11	C01388	VACUUM WASTE CONT

EFFECTIVITY
LOM ALL

38-33-02



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AIRCRAFT MAINTENANCE MANUAL

SUBTASK 38-33-02-410-007

- (2) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-33-02-860-008

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

CAPT Electrical System Panel, P18-3

Row Col Number Name

D 19 C01423 VACUUM WASTE

SUBTASK 38-33-02-860-002

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

SUBTASK 38-33-02-760-001

- (5) Do this task: Auto Zero - Test, TASK 38-33-00-710-801.

SUBTASK 38-33-02-790-001

- (6) To do a leak check of the continuous level sensor [1] connection, do these steps:

- (a) Open this access panel:

Number Name/Location

145AL Waste Service Door

- (b) At the service panel, make sure that the control handles for the drain ball valves are in the closed position.
- (c) Connect the water hose from the waste system servicing equipment, STD-1142, to the service panel drain valve assembly.
- (d) Use the pump on the service cart to put about 50 gal (189 l) of water into the waste tank.
- (e) Make sure that the continuous level sensor connection does not have a leak.

NOTE: You must wait for not less than 30 minutes after you put the water in the tanks before you do this step.

H. Put the Airplane Back to Its Usual Condition

SUBTASK 38-33-02-610-002

- (1) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.

SUBTASK 38-33-02-010-003



WARNING

SEAL THE CARGO COMPARTMENT WITH THE LINING. OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN YOU INSTALL THE LINING. IF YOU INSTALL THE LINING INCORRECTLY, THE SMOKE CAN GET INTO THE PASSENGER COMPARTMENT DURING A FIRE.

- (2) Do this task: Waste Tank Enclosure Panel - Installation, TASK 25-52-20-400-801.

SUBTASK 38-33-02-410-001

- (3) Close these access panels:

Number Name/Location

145AL Waste Service Door

822 Aft Cargo Door

— END OF TASK —

EFFECTIVITY
LOM ALL

38-33-02



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AIRCRAFT MAINTENANCE MANUAL

WASTE TANK CONTINUOUS LEVEL SENSOR - CLEANING/PAINTING

1. General

- A. This procedure has this task:
- (1) A cleaning of the continuous level sensor for the waste tank.

TASK 38-33-02-100-801

2. Waste Tank Continuous Level Sensor Cleaning

A. References

Reference	Title
38-33-02-000-801	Waste Tank Continuous Level Sensor Removal (P/B 401)
38-33-02-400-801	Waste Tank Continuous Level Sensor Installation (P/B 401)

B. Tools/Equipment

Reference	Description
STD-123	Brush - Soft Bristle

C. Location Zones

Zone	Area
141	Aft Cargo Compartment - Left

D. Prepare for the Cleaning

SUBTASK 38-33-02-020-011

- (1) Do this task: Waste Tank Continuous Level Sensor Removal, TASK 38-33-02-000-801.

E. Continuous Level Sensor Cleaning

SUBTASK 38-33-02-140-001

- (1) Use a rag to clean the loose material from the face of the continuous level sensor.

SUBTASK 38-33-02-140-002



BE VERY CAREFUL TO PREVENT DAMAGE TO THE CONTINUOUS LEVEL SENSOR DIAPHRAGMS (INNER WET AREAS OF SENSOR). THE DIAPHRAGMS ARE VERY THIN (.001 INCH (.025 MM)) AND IT IS EASY TO CAUSE DAMAGE. DAMAGE TO DIAPHRAGMS CAN MAKE THE CONTINUOUS LEVEL SENSOR UNSERVICEABLE.

- (2) Use a soft bristle soft bristle brush, STD-123, and soap to clean the face of the continuous level sensor.

SUBTASK 38-33-02-140-003

- (3) Dry the continuous level sensor.

SUBTASK 38-33-02-160-002

- (4) Clean all the waste material from the hole in the waste tank for the continuous level sensor.

F. Put the Airplane Back to Its Usual Condition

SUBTASK 38-33-02-420-009

- (1) Do this task: Waste Tank Continuous Level Sensor Installation, TASK 38-33-02-400-801.

— END OF TASK —

EFFECTIVITY
LOM ALL

38-33-02



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LOGIC CONTROL MODULE - MAINTENANCE PRACTICES

1. General

- A. This procedure has these tasks:
 - (1) A removal of the logic control module for the waste tank.
 - (2) An installation of the logic control module for the waste tank.
 - (3) An operational test of the logic control module for the waste tank.
- B. The Logic Control Module is referred to as the LCM in this procedure.
- C. The LCM has four electrical connectors. J1 and J2 are connected to the point level sensors. J3 is connected to the continuous level sensor. J4 is connected to the power and control circuits for the airplane.

TASK 38-33-03-000-801

2. Logic Control Module Removal

(Figure 201)

A. References

<u>Reference</u>	<u>Title</u>
25-52-20-000-801	Waste Tank Enclosure Panel - Removal (P/B 401)

B. Location Zones

<u>Zone</u>	<u>Area</u>
117	Electrical and Electronics Compartment - Left
141	Aft Cargo Compartment - Left

C. Access Panels

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

D. Prepare for the Removal

SUBTASK 38-33-03-010-001

- (1) Open this access panel:

<u>Number</u>	<u>Name/Location</u>
822	Aft Cargo Door

SUBTASK 38-33-03-010-002



USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (2) Do this task: Waste Tank Enclosure Panel - Removal, TASK 25-52-20-000-801.

SUBTASK 38-33-03-040-002

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

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	19	C01423	VACUUM WASTE

EFFECTIVITY
LOM ALL

38-33-03



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SUBTASK 38-33-03-010-008

- (4) To get access to the P91 panel, open this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-33-03-040-001



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) Open this circuit breaker and install safety tag:

Power Distribution Panel Number 1, P91

Row	Col	Number	Name
C	11	C01388	VACUUM WASTE CONT

E. LCM Removal

SUBTASK 38-33-03-020-001

- (1) Disconnect the J4 ships I/O electrical connector [7] from the logic control module [4].

SUBTASK 38-33-03-020-002

- (2) Disconnect the J3 sensor electrical connector [1] from the logic control module [4].

SUBTASK 38-33-03-020-003

- (3) Remove the J1 sensor electrical connector [5] and J2 sensor electrical connector [6] from the logic control module [4].

SUBTASK 38-33-03-020-004

- (4) Remove the bolts [2] and washers [3] to disconnect the jumper assemblies [8] and to remove the logic control module [4].

— END OF TASK —

TASK 38-33-03-400-801

3. Logic Control Module Installation

(Figure 201)

A. References

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
25-52-20-400-801	Waste Tank Enclosure Panel - Installation (P/B 401)
38-33-00-710-801	Auto Zero - Test (P/B 501)
38-33-00-740-802	LCM BITE Test (P/B 501)

EFFECTIVITY
LOM ALL

38-33-03



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B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
4	Logic control module	38-33-03-02-135	LOM 402, 404
		38-33-03-02A-105	LOM 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-999

C. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
141	Aft Cargo Compartment - Left

D. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
822	Aft Cargo Door

E. LCM Installation

SUBTASK 38-33-03-420-001



CAUTION

USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (1) Install the bolts [2] and washers [3] to connect the jumper assemblies [8] and install the logic control module [4].

SUBTASK 38-33-03-420-002

- (2) Connect the J1 sensor electrical connector [5] and J2 sensor electrical connector [6] to the logic control module [4].

NOTE: You can connect the J1 connector to the J2 receptacle or the J2 connector to the J1 receptacle.

- (a) Make sure that the J1 sensor electrical connector [5] and J2 sensor electrical connector [6] connectors are installed in the correct location on the logic control module [4].

SUBTASK 38-33-03-420-003

- (3) Connect the J3 sensor electrical connector [1] to the logic control module [4].

SUBTASK 38-33-03-420-004

- (4) Install the J4 ships I/O electrical connector [7] to the logic control module [4].

F. LCM Installation Test

SUBTASK 38-33-03-860-001



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.

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(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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C01388	VACUUM WASTE CONT

SUBTASK 38-33-03-860-005

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

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	19	C01423	VACUUM WASTE

SUBTASK 38-33-03-860-002

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

SUBTASK 38-33-03-760-001

- (4) Do this task: LCM BITE Test, TASK 38-33-00-740-802.

SUBTASK 38-33-03-760-002

- (5) Do this task: Auto Zero - Test, TASK 38-33-00-710-801.

G. Put the Airplane Back to Its Usual Condition

SUBTASK 38-33-03-010-003



WARNING

SEAL THE CARGO COMPARTMENT WITH THE LINING. OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN YOU INSTALL THE LINING. IF YOU INSTALL THE LINING INCORRECTLY, THE SMOKE CAN GO INTO THE PASSENGER COMPARTMENT DURING A FIRE. THIS CAN CAUSE INJURY TO PERSONNEL.

- (1) Do this task: Waste Tank Enclosure Panel - Installation, TASK 25-52-20-400-801.

SUBTASK 38-33-03-410-001

- (2) Close these access panels:

Number Name/Location

117A	Electronic Equipment Access Door
822	Aft Cargo Door

— END OF TASK —

TASK 38-33-03-710-801

4. LCM Operational Test

A. References

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)

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(Continued)

Reference	Title
25-52-20-000-801	Waste Tank Enclosure Panel - Removal (P/B 401)
25-52-20-400-801	Waste Tank Enclosure Panel - Installation (P/B 401)

B. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
141	Aft Cargo Compartment - Left

C. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
822	Aft Cargo Door

D. Prepare for the Test

SUBTASK 38-33-03-010-009

- (1) To get access to the P91 panel, open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 38-33-03-860-003

 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.
---	--

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

Power Distribution Panel Number 1, P91

Row	Col	Number	Name
C	11	C01388	VACUUM WASTE CONT

SUBTASK 38-33-03-860-006

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
D	19	C01423	VACUUM WASTE

SUBTASK 38-33-03-860-004

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



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SUBTASK 38-33-03-010-004

- (5) Open this access panel:

<u>Number</u>	<u>Name/Location</u>
822	Aft Cargo Door

SUBTASK 38-33-03-010-005

- (6) Do this task: Waste Tank Enclosure Panel - Removal, TASK 25-52-20-000-801.

E. LCM Operational Test

SUBTASK 38-33-03-710-001



CAUTION

USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (1) Make sure that the POWER ON light for the LCM is on.

SUBTASK 38-33-03-710-002

- (2) Move and then release the switch to the TEST SENSOR position.

SUBTASK 38-33-03-710-003

- (3) Make sure that the POWER ON, J1 SENSOR, J2 SENSOR, J3 SENSOR, and TANK FULL lights are on for approximately 3 seconds.

NOTE: The lights on the LCM can flash irregularly. If you find a system error, the TANK FULL light will flash at 8 Hz, then go off. You will see this cycle again after 1.6 seconds until you correct the defect.

SUBTASK 38-33-03-710-004

- (4) Make sure that the J1 SENSOR, J2 SENSOR, J3 SENSOR, and TANK FULL lights are off.

F. Put the Airplane Back to Its Usual Condition

SUBTASK 38-33-03-410-002



WARNING

SEAL THE CARGO COMPARTMENT WITH THE LINING. OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN YOU INSTALL THE LINING. IF YOU INSTALL THE LINING INCORRECTLY, THE SMOKE CAN GO INTO THE PASSENGER COMPARTMENT DURING A FIRE. THIS CAN CAUSE INJURY TO PERSONNEL.

- (1) Do this task: Waste Tank Enclosure Panel - Installation, TASK 25-52-20-400-801.

SUBTASK 38-33-03-410-003

- (2) Close these access panels:

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

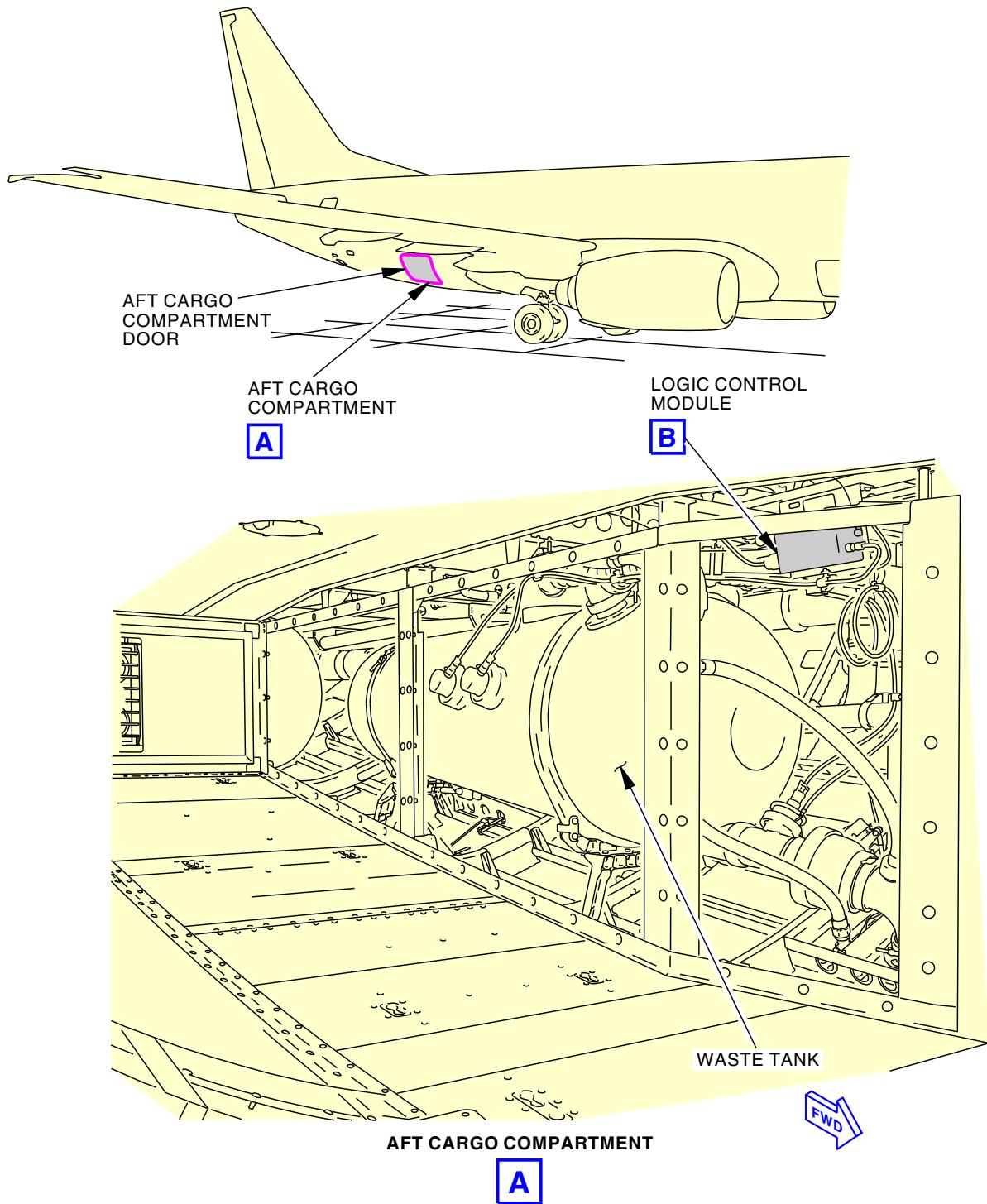
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EFFECTIVITY
LOM ALL

38-33-03



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Logic Control Module Installation
Figure 201/38-33-03-990-801 (Sheet 1 of 2)

EFFECTIVITY
LOM ALL

38-33-03

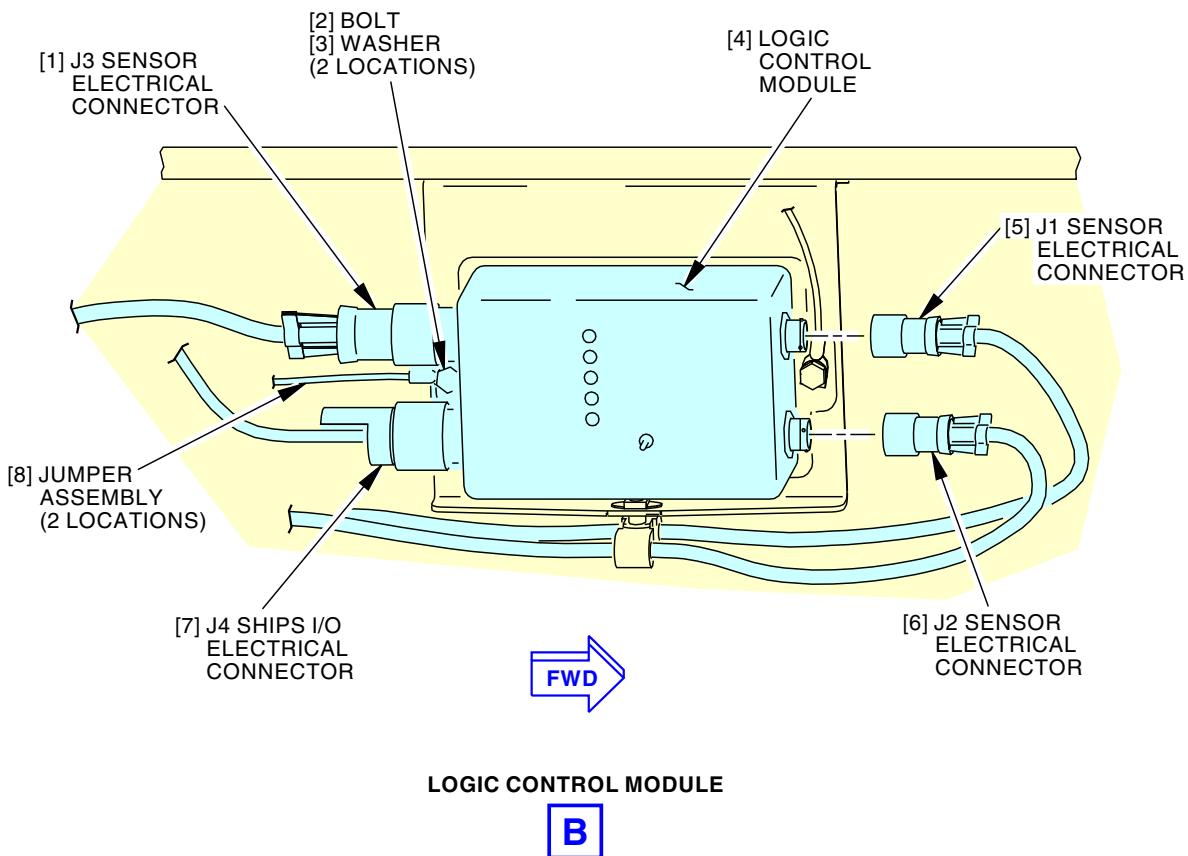
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Logic Control Module Installation
Figure 201/38-33-03-990-801 (Sheet 2 of 2)



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ATTENDANT'S PANEL WASTE QUANTITY INDICATOR - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
- (1) A removal of the waste quantity indicator on the attendant's panel.
 - (2) An installation of the waste quantity indicator on the attendant's panel.

TASK 38-33-04-000-801

2. Attendant's Panel Waste Quantity Indicator Removal

(Figure 401)

A. Location Zones

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

B. Prepare for the Removal

SUBTASK 38-33-04-860-001

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

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	19	C01423	VACUUM WASTE

SUBTASK 38-33-04-860-002

- (2) Get access to the aft attendant's panel.

C. Waste Quantity Indicator Removal

SUBTASK 38-33-04-020-001

- (1) Remove the screws [2] that attach the shroud [1] to the attendant's panel.

SUBTASK 38-33-04-020-002

- (2) Remove the shroud [1].

NOTE: The shroud [1] is held in its position by spring clips. You must pull on the shroud [1] to release the spring clips.

SUBTASK 38-33-04-020-003

- (3) Remove the screws [3] and washers [4] from the attendant's panel.

SUBTASK 38-33-04-020-004

- (4) Remove the waste quantity module assembly [5].

— END OF TASK —

TASK 38-33-04-400-801

3. Attendant's Panel Waste Quantity Indicator Installation

(Figure 401)

A. References

<u>Reference</u>	<u>Title</u>
12-17-01-610-801	Waste Tank Servicing (P/B 301)

EFFECTIVITY
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
422-426

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B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
5	Module assembly	31-15-21-03-125	LOM 404, 416
		31-15-21-03A-210	LOM 402, 406, 407, 411, 412, 415, 420, 422-426
		38-32-00-07-010	LOM 404, 416
		38-33-04-01-005	LOM 402, 406, 407, 411, 412, 415, 420, 422-426

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Waste Quantity Indicator Installation

SUBTASK 38-33-04-420-001

- (1) Put the waste quantity module assembly [5] into its position.

SUBTASK 38-33-04-420-002

- (2) Install the screws [3] and washers [4].

SUBTASK 38-33-04-420-003

- (3) Put the shroud [1] in its position.

SUBTASK 38-33-04-420-004

- (4) Install the screws [2].

E. Waste Quantity Indicator Installation Test

SUBTASK 38-33-04-860-003

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
D	19	C01423	VACUUM WASTE

SUBTASK 38-33-04-610-001

- (2) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.

NOTE: Do not disconnect the rinse hose until the testing is completed.

- (a) Make sure the waste tank indicator show between 2 and 4 bars on the indicator.

SUBTASK 38-33-04-610-002

- (3) Add additional fluid to the waste tank until the LAV INOP light on the attendant's panel illuminates.

NOTE: Do not overfill the waste tank. The total liquid amount is approximately 60 gallons (230 liters).

SUBTASK 38-33-04-710-001

- (4) Make sure the waste quantity indicator shows F.

F. Put the Airplane Back to its Usual Condition

SUBTASK 38-33-04-610-003

- (1) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.

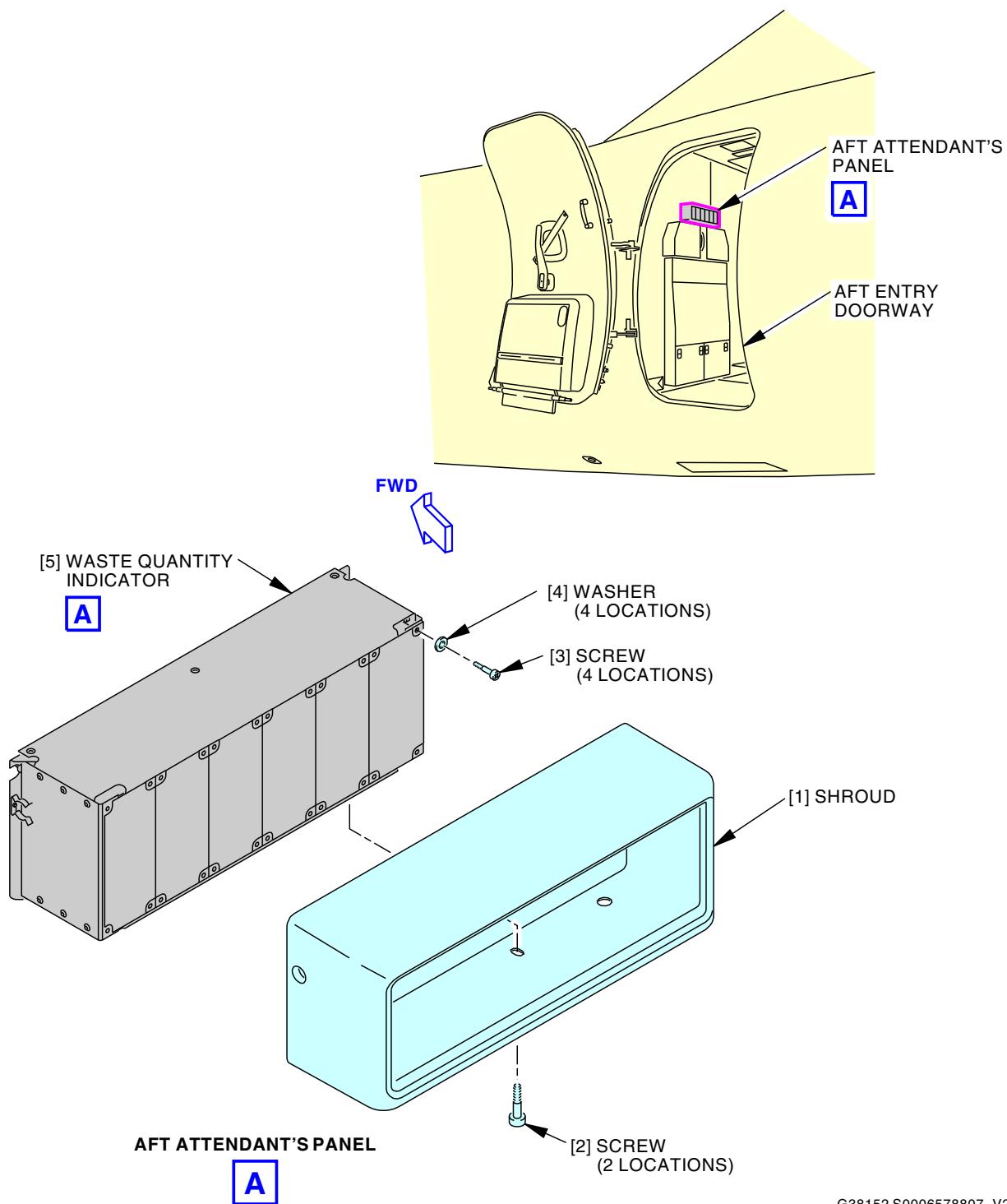
———— END OF TASK ————

EFFECTIVITY
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
422-426

38-33-04



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Attendant's Panel Waste Quantity Indicator Installation
Figure 401/38-33-04-990-801 (Sheet 1 of 2)

EFFECTIVITY
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
422-426

38-33-04

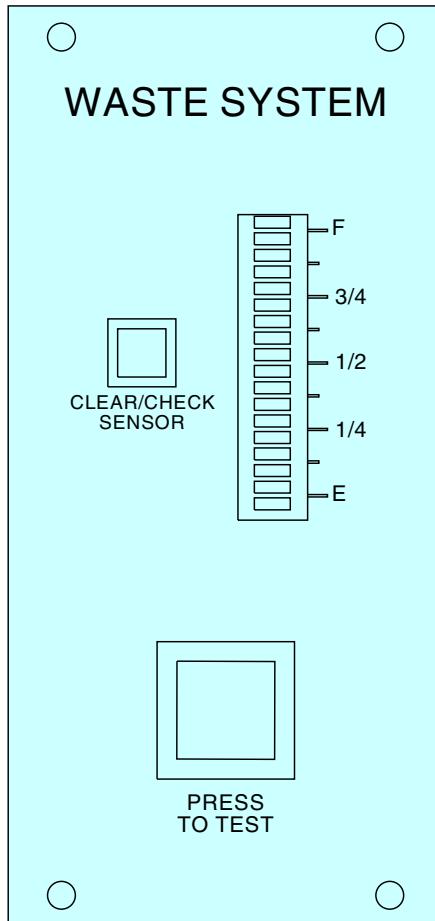
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WASTE QUANTITY INDICATOR

B

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Attendant's Panel Waste Quantity Indicator Installation
Figure 401/38-33-04-990-801 (Sheet 2 of 2)

EFFECTIVITY
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
422-426

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SERVICE PANEL WASTE QUANTITY GAUGE - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
- (1) A removal of the service panel waste quantity gauge.
 - (2) An installation of the service panel waste quantity gauge.

TASK 38-33-05-000-801

2. Service Panel Waste Quantity Gauge Removal

(Figure 401)

A. References

<u>Reference</u>	<u>Title</u>
25-52-20-000-801	Waste Tank Enclosure Panel - Removal (P/B 401)

B. Location Zones

<u>Zone</u>	<u>Area</u>
145	Aft Cargo Compartment Equipment Bay - Left

C. Access Panels

<u>Number</u>	<u>Name/Location</u>
146AR	Water Service Door
822	Aft Cargo Door

D. Prepare for the Removal

SUBTASK 38-33-05-860-001

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

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	19	C01423	VACUUM WASTE

SUBTASK 38-33-05-010-001

- (2) Open this access panel:

Number Name/Location

146AR Water Service Door

SUBTASK 38-33-05-860-002

- (3) Open this access panel:

Number Name/Location

822 Aft Cargo Door

SUBTASK 38-33-05-020-001

- (4) To remove the waste tank enclosure panel for access to the top of the service panel, do this task: Waste Tank Enclosure Panel - Removal, TASK 25-52-20-000-801.

EFFECTIVITY
LOM 404, 416, 432, 443, 444

38-33-05



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E. Service Panel Waste Quantity Gauge Removal

SUBTASK 38-33-05-020-002



CAUTION

USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (1) Disconnect the electrical connector [1] from the waste quantity gauge [2].

SUBTASK 38-33-05-020-003

- (2) Remove the nut [3] and washer [4].

SUBTASK 38-33-05-020-004

- (3) Remove the waste quantity gauge [2].

———— END OF TASK ————

TASK 38-33-05-400-801

3. **Service Panel Waste Quantity Gauge Installation**

(Figure 401)

A. References

Reference	Title
12-17-01-610-801	Waste Tank Servicing (P/B 301)
25-52-20-400-801	Waste Tank Enclosure Panel - Installation (P/B 401)
51-31-00-390-801	Non-Removable Faying (Mated) Surface Seal Application (P/B 201)

B. Consumable Materials

Reference	Description	Specification
A00247	Sealant - Pressure And Environmental - Chromate Type	BMS5-95

C. Location Zones

Zone	Area
145	Aft Cargo Compartment Equipment Bay - Left

D. Access Panels

Number	Name/Location
146AR	Water Service Door
822	Aft Cargo Door

E. Service Panel Waste Quantity Gauge Installation

SUBTASK 38-33-05-860-003



CAUTION

USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (1) Apply the sealant, A00247 for a fay surface seal between the service panel and the waste quantity waste quantity gauge [2] (TASK 51-31-00-390-801).

SUBTASK 38-33-05-420-001

- (2) Put the waste quantity gauge [2] into its position.

EFFECTIVITY
LOM 404, 416, 432, 443, 444

38-33-05



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SUBTASK 38-33-05-420-002

- (3) Install the nut [3] and washer [4].

SUBTASK 38-33-05-420-003

- (4) Connect the electrical connector [1].

F. Service Panel Waste Quantity Gauge Installation Test

SUBTASK 38-33-05-860-004

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

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	19	C01423	VACUUM WASTE

SUBTASK 38-33-05-610-001

- (2) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.

SUBTASK 38-33-05-710-001

- (3) Make sure the waste quantity gauge shows amount of waste tank pre-charge (gauge reading between empty and 1/8 tank).

G. Put the Airplane Back in Its Usual Condition

SUBTASK 38-33-05-410-001

- (1) To install the waste tank enclosure panel, do this task: Waste Tank Enclosure Panel - Installation, TASK 25-52-20-400-801.

SUBTASK 38-33-05-410-002

- (2) Close this access panel:

<u>Number</u>	<u>Name/Location</u>
146AR	Water Service Door

SUBTASK 38-33-05-410-003

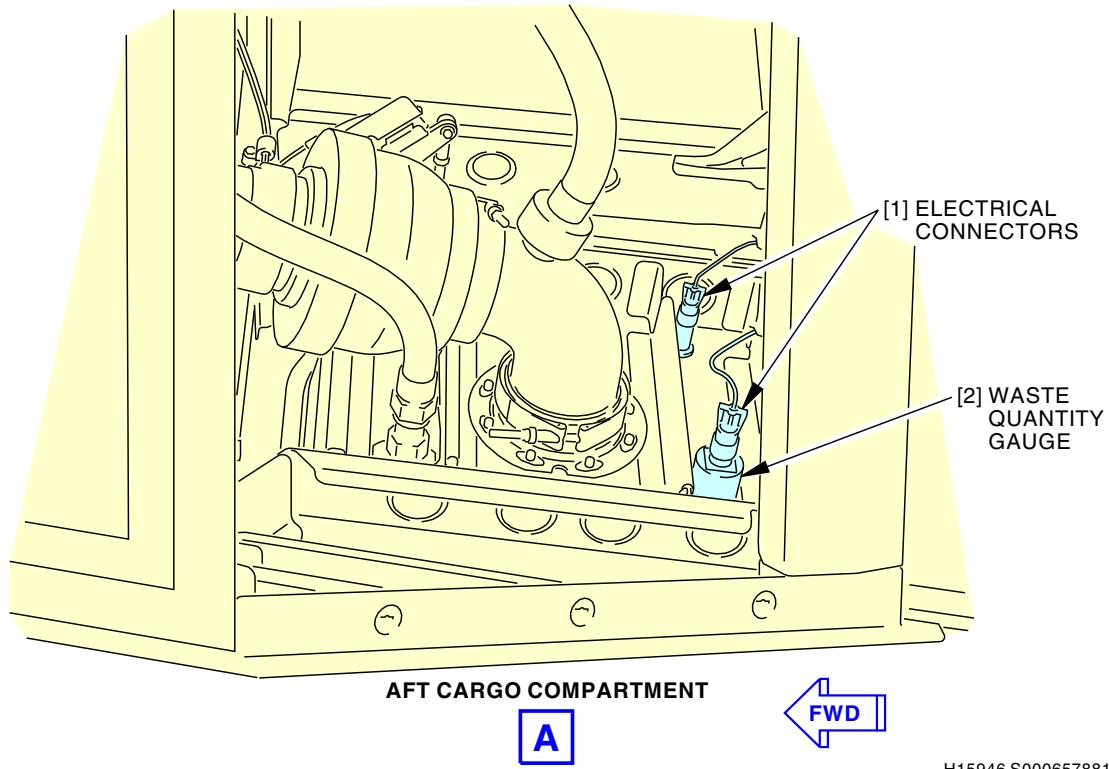
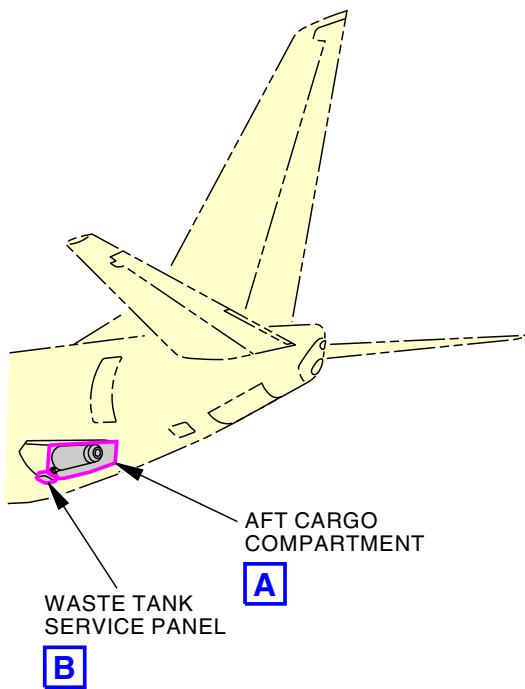
- (3) Close this access panel:

<u>Number</u>	<u>Name/Location</u>
822	Aft Cargo Door

———— END OF TASK ————

EFFECTIVITY
LOM 404, 416, 432, 443, 444

38-33-05



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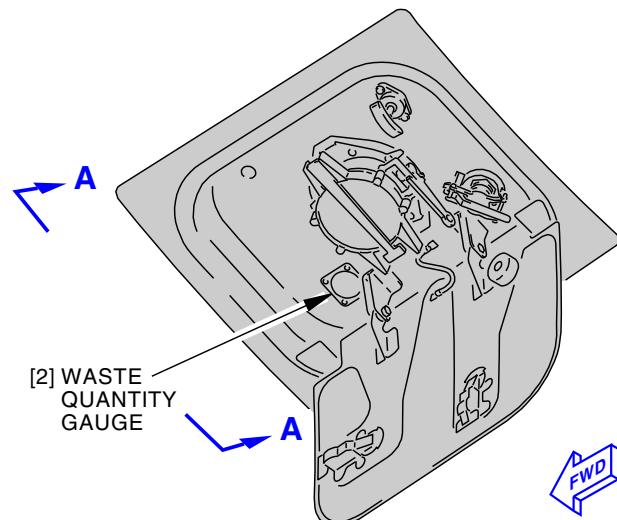
Waste Quantity Gauge Installation
Figure 401/38-33-05-990-801 (Sheet 1 of 2)

EFFECTIVITY
 LOM 404, 416, 432, 443, 444

38-33-05

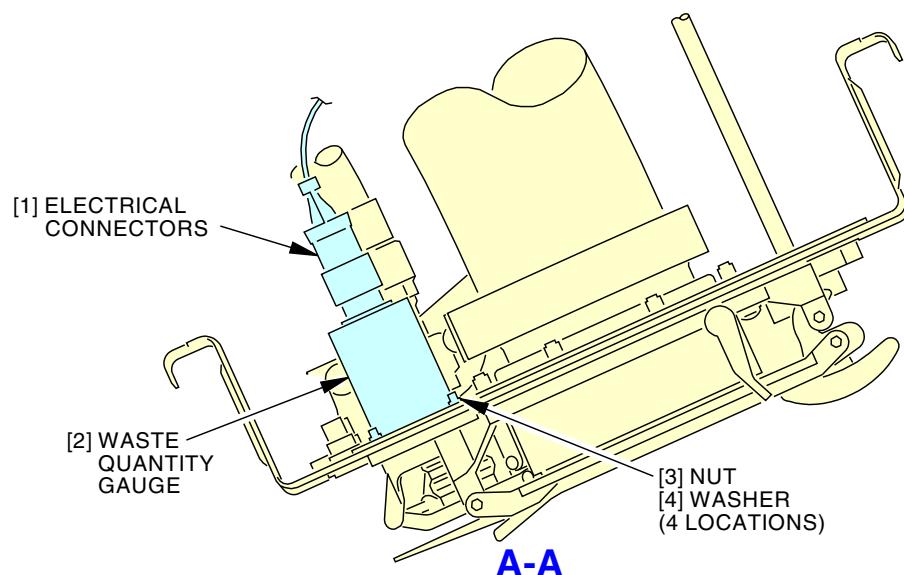


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WASTE TANK SERVICE PANEL

B



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Waste Quantity Gauge Installation
Figure 401/38-33-05-990-801 (Sheet 2 of 2)

EFFECTIVITY
LOM 404, 416, 432, 443, 444

38-33-05

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SERVICE PANEL SENSOR FOULED INDICATOR - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
- (1) A removal of the service panel sensor fouled indicator.
 - (2) An installation of the service panel sensor fouled indicator.

TASK 38-33-06-000-801

2. Service Panel Sensor Fouled Indicator Removal

(Figure 401)

A. References

<u>Reference</u>	<u>Title</u>
25-52-20-000-801	Waste Tank Enclosure Panel - Removal (P/B 401)

B. Location Zones

<u>Zone</u>	<u>Area</u>
145	Aft Cargo Compartment Equipment Bay - Left

C. Access Panels

<u>Number</u>	<u>Name/Location</u>
145AL	Waste Service Door
822	Aft Cargo Door

D. Prepare for the Removal

SUBTASK 38-33-06-860-001

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

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	19	C01423	VACUUM WASTE

SUBTASK 38-33-06-010-001

- (2) Open this access panel:

Number Name/Location

145AL Waste Service Door

SUBTASK 38-33-06-860-002

- (3) Open this access panel:

Number Name/Location

822 Aft Cargo Door

SUBTASK 38-33-06-020-001

- (4) To access the inboard side of the service panel, remove the waste tank enclosure panel, do this task: Waste Tank Enclosure Panel - Removal, TASK 25-52-20-000-801.

EFFECTIVITY
LOM 432, 443, 444

38-33-06



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E. Service Panel Sensor Fouled Indicator Removal

SUBTASK 38-33-06-020-002



CAUTION

USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (1) Disconnect the electrical connections [1] from the sensor fouled indicator [2].

SUBTASK 38-33-06-020-003

- (2) Remove the nut [3] and washer [4].

SUBTASK 38-33-06-020-004

- (3) Remove the sensor fouled indicator [2].

———— END OF TASK ————

TASK 38-33-06-400-801

3. **Service Panel Sensor Fouled Indicator Installation**

(Figure 401)

A. **References**

Reference	Title
12-17-01-610-801	Waste Tank Servicing (P/B 301)
25-52-20-400-801	Waste Tank Enclosure Panel - Installation (P/B 401)
51-31-00-390-801	Non-Removable Faying (Mated) Surface Seal Application (P/B 201)

B. **Consumable Materials**

Reference	Description	Specification
A00247	Sealant - Pressure And Environmental - Chromate Type	BMS5-95

C. **Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
2	Indicator	38-33-01-01-055	LOM 432, 443, 444

D. **Location Zones**

Zone	Area
145	Aft Cargo Compartment Equipment Bay - Left

E. **Access Panels**

Number	Name/Location
145AL	Waste Service Door
822	Aft Cargo Door

— EFFECTIVITY —
LOM 432, 443, 444

38-33-06



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F. Service Panel Sensor Fouled Indicator Installation

SUBTASK 38-33-06-860-003



CAUTION

USE TOOLS CAREFULLY BECAUSE THE WASTE TANKS HAVE A COMPOSITE SKIN. IT IS EASILY DAMAGED. IF YOU HIT THE TANK OR LET IT FALL, THIS CAN CAUSE DAMAGE THAT YOU CANNOT SEE.

- (1) Apply the sealant, A00247 for a fay surface seal between the service panel and the sensor fouled indicator [2] (TASK 51-31-00-390-801).

SUBTASK 38-33-06-420-001

- (2) Put the sensor fouled indicator [2] into its position.

SUBTASK 38-33-06-420-002

- (3) Install the nut [3] and washer [4].

SUBTASK 38-33-06-420-003

- (4) Connect the electrical connections [1].

G. Service Panel Sensor Fouled Indicator Installation Test

SUBTASK 38-33-06-860-004

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

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	19	C01423	VACUUM WASTE

SUBTASK 38-33-06-610-001

- (2) Do this task: Waste Tank Servicing, TASK 12-17-01-610-801.

SUBTASK 38-33-06-710-001

- (3) Make sure the sensor fouled indicator light is not illuminated.

- (a) Push to test the sensor fouled indicator light to confirm operation.

H. Put the Airplane Back in Its Usual Condition

SUBTASK 38-33-06-410-001

- (1) To install the waste tank enclosure panel, do this task: Waste Tank Enclosure Panel - Installation, TASK 25-52-20-400-801.

SUBTASK 38-33-06-410-002

- (2) Close this access panel:

<u>Number</u>	<u>Name/Location</u>
145AL	Waste Service Door

SUBTASK 38-33-06-410-003

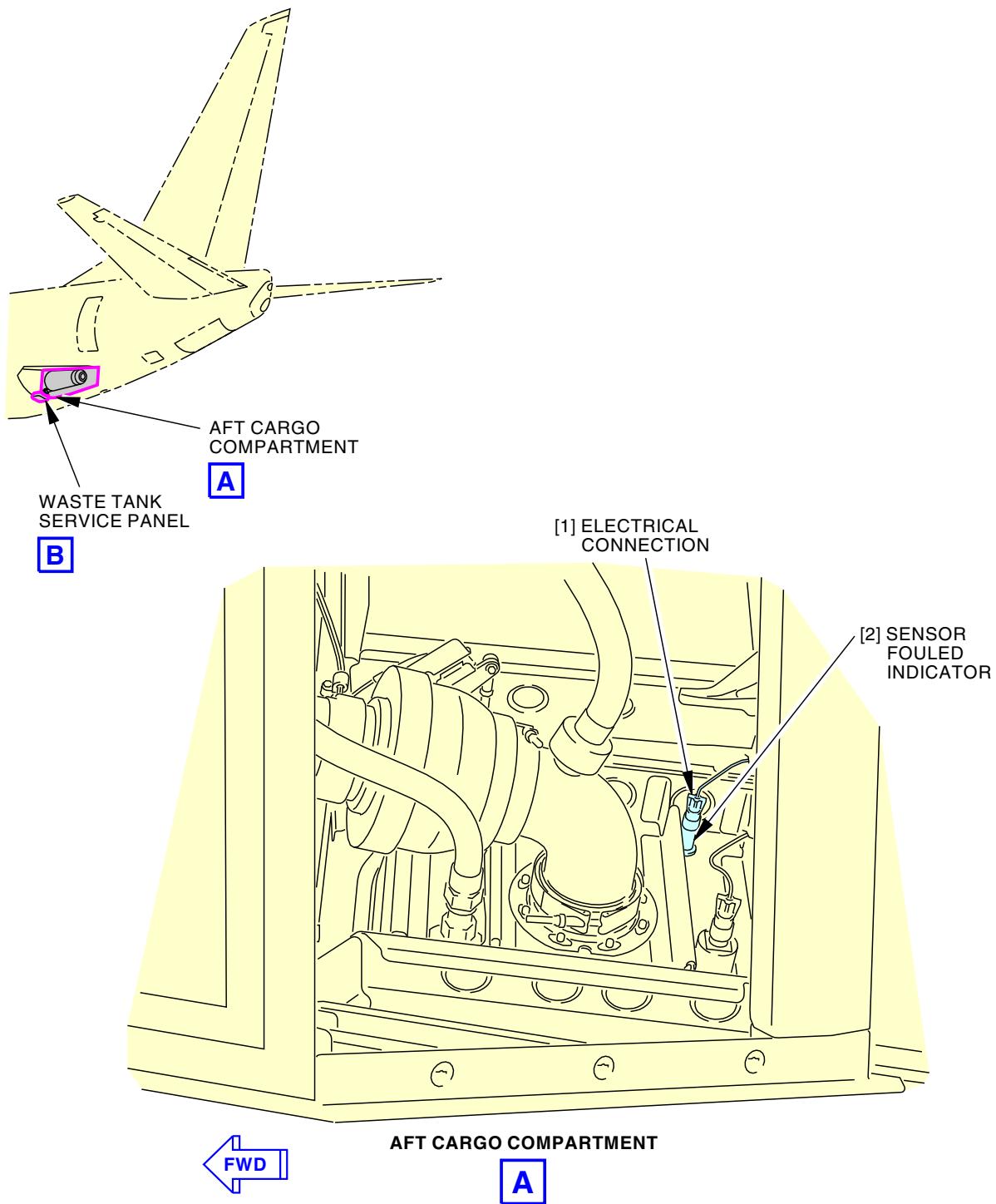
- (3) Close this access panel:

<u>Number</u>	<u>Name/Location</u>
822	Aft Cargo Door

———— END OF TASK ————

EFFECTIVITY
LOM 432, 443, 444

38-33-06



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Sensor Fouled Indicator Installation
Figure 401/38-33-06-990-801 (Sheet 1 of 2)

EFFECTIVITY
LOM 432, 443, 444

38-33-06

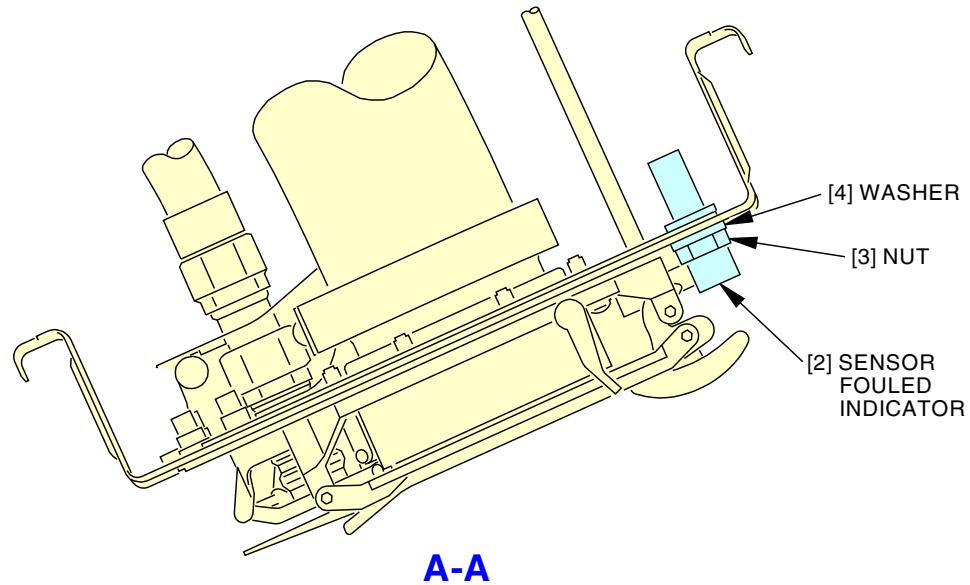
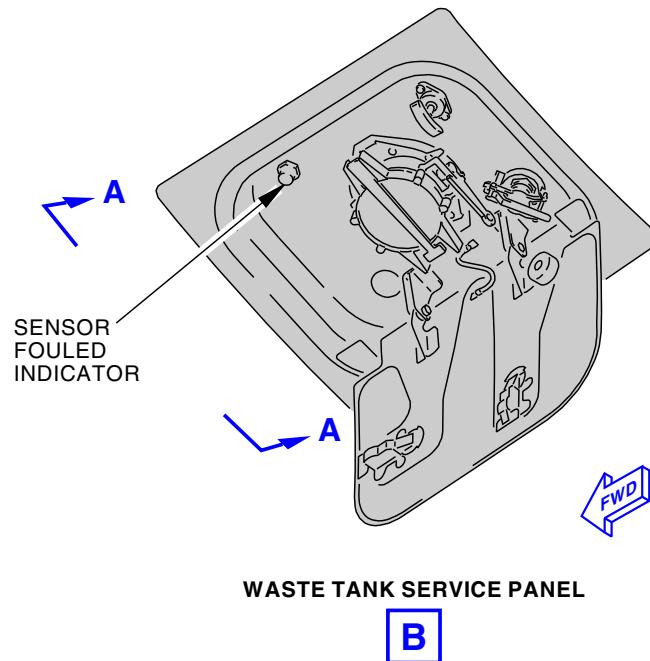
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Sensor Fouled Indicator Installation
Figure 401/38-33-06-990-801 (Sheet 2 of 2)

EFFECTIVITY
LOM 432, 443, 444

38-33-06



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AIRCRAFT MAINTENANCE MANUAL

WATER TANK PRESSURIZATION - MAINTENANCE PRACTICES

1. General

- A. This procedure has these tasks:
- (1) A deactivation of the potable water system
 - (2) An activation of the potable water system.

TASK 38-42-00-800-801

2. Potable Water System - Deactivation

(Figure 201)

A. General

- (1) This task will deactivate potable water air compressor in the potable water system.

B. References

Reference	Title
25-52-20-000-801	Waste Tank Enclosure Panel - Removal (P/B 401)
36-00-00-860-806	Remove Pressure from the Pneumatic System (P/B 201)

C. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
141	Aft Cargo Compartment - Left
144	Area Below Aft Cargo Compartment - Right
822	Aft Cargo Door

D. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
146AR	Water Service Door
822	Aft Cargo Door

E. Potable Water System Deactivation

SUBTASK 38-42-00-860-001

- (1) Do this task: Remove Pressure from the Pneumatic System, TASK 36-00-00-860-806.

SUBTASK 38-42-00-010-004

- (2) To get access to the P91 panel, open this access door:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 38-42-00-860-002



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.

EFFECTIVITY
LOM ALL

38-42-00



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AIRCRAFT MAINTENANCE MANUAL

(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) Open these circuit breakers and install safety tags:

Power Distribution Panel Number 1, P91

Row Col Number Name

LOM 402, 404, 406

A 18 C00873 POT WATER COMPRESSOR

LOM 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-999

D 11 C00873 POT WATER COMPRESSOR

LOM ALL

SUBTASK 38-42-00-410-006

- (4) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-42-00-860-003

- (5) Open this access panel:

Number Name/Location

146AR Water Service Door

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-464

NOTE: The air compressor for the potable water system will not operate with the Water Service Door, 146AR, in the open position.

LOM ALL

- (a) Turn the handle of the fill/overflow valve to open.

SUBTASK 38-42-00-710-001

- (6) When no more air comes out of the overflow port, close the fill/overflow valve.

F. Tryout

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

SUBTASK 38-42-00-410-002

- (1) Close this access panel:

Number Name/Location

146AR Water Service Door

SUBTASK 38-42-00-010-002

- (2) Open this door:

Number Name/Location

822 Aft Cargo Door

EFFECTIVITY
LOM ALL

38-42-00



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SUBTASK 38-42-00-010-003

- (3) To remove the waste tank enclosure lining, do this task: Waste Tank Enclosure Panel - Removal, TASK 25-52-20-000-801.

SUBTASK 38-42-00-200-001

- (4) Make sure that the potable water air compressor does not operate.

SUBTASK 38-42-00-410-007

- (5) Close this door:

<u>Number</u>	<u>Name/Location</u>
822	Aft Cargo Door

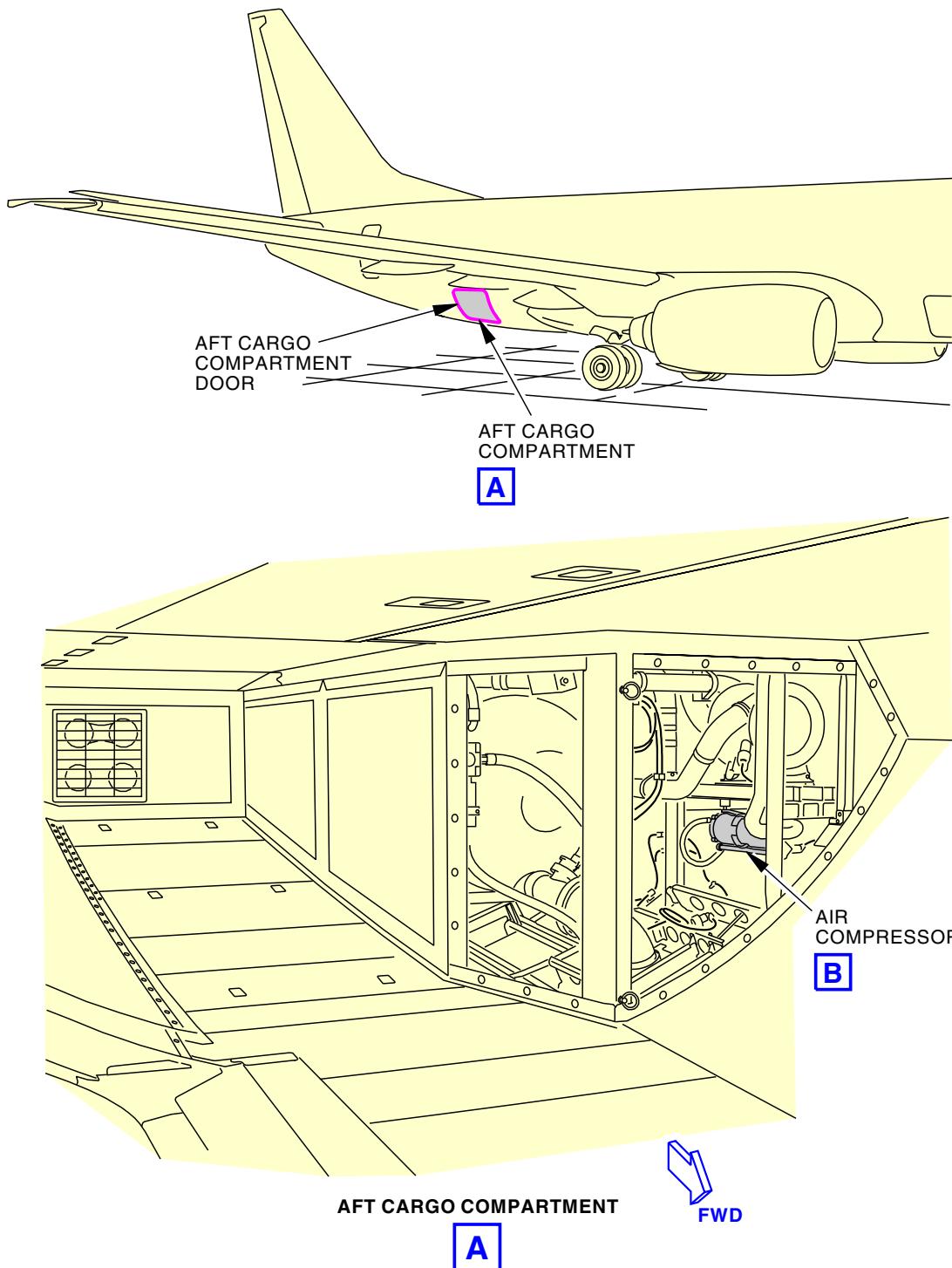
———— END OF TASK ————

EFFECTIVITY
LOM ALL

38-42-00



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AIRCRAFT MAINTENANCE MANUAL



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Potable Water Air Compressor
Figure 201/38-42-00-990-801 (Sheet 1 of 2)

EFFECTIVITY
LOM ALL

38-42-00

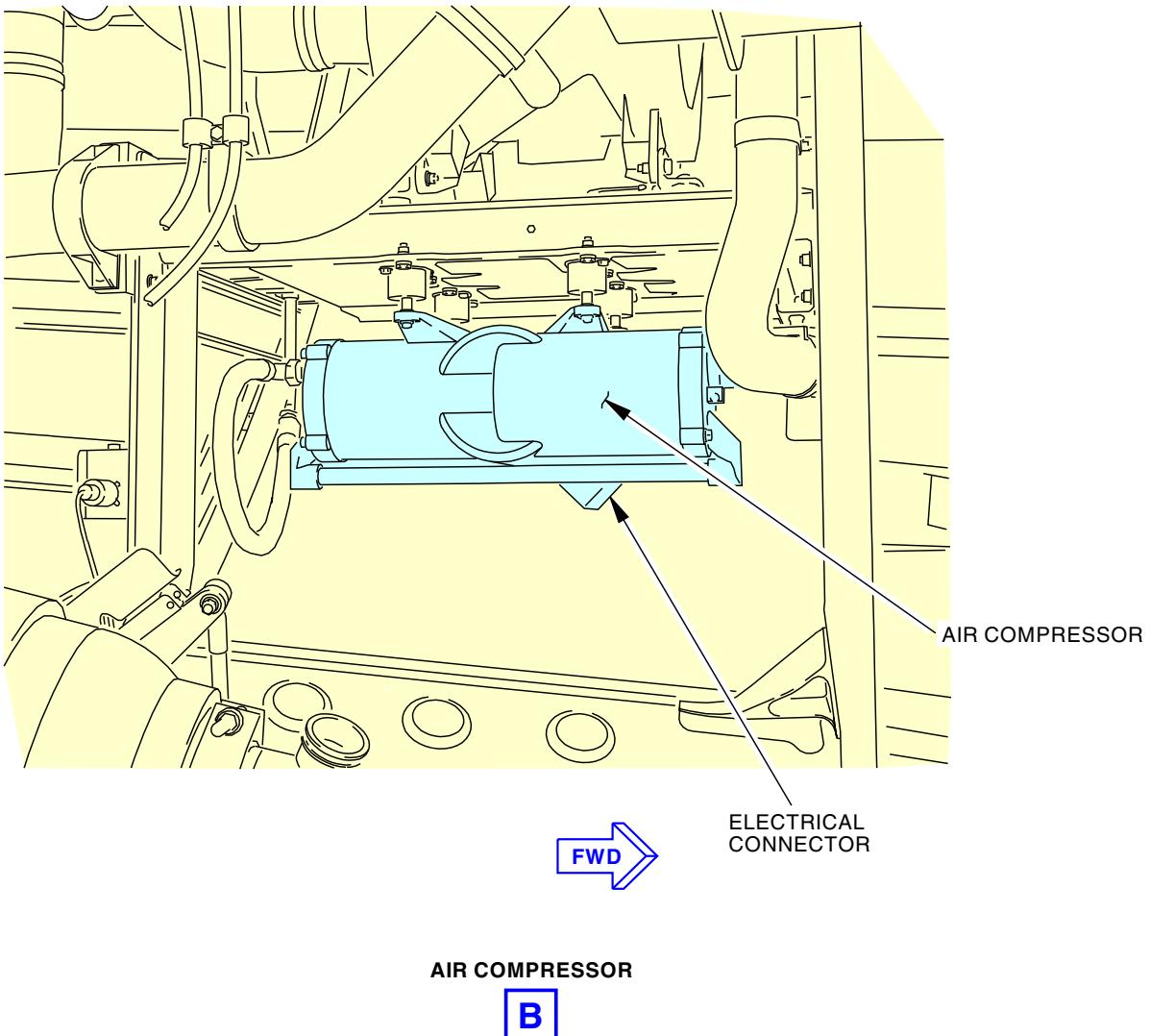
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AIRCRAFT MAINTENANCE MANUAL



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Potable Water Air Compressor
Figure 201/38-42-00-990-801 (Sheet 2 of 2)

EFFECTIVITY
LOM ALL

38-42-00

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TASK 38-42-00-800-802

3. Potable Water System - Activation

(Figure 201)

A. General

- (1) This task will activate potable water air compressor in the potable water system.

B. References

Reference	Title
12-14-01-600-802	Potable Water Tank - Fill (P/B 301)
25-52-20-400-801	Waste Tank Enclosure Panel - Installation (P/B 401)
36-00-00-860-806	Remove Pressure from the Pneumatic System (P/B 201)

C. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
141	Aft Cargo Compartment - Left
144	Area Below Aft Cargo Compartment - Right
822	Aft Cargo Door

D. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
146AR	Water Service Door
822	Aft Cargo Door

E. Potable Water System Activation

SUBTASK 38-42-00-610-001

- (1) If the potable water tank does not have water in it, do this task: Potable Water Tank - Fill, TASK 12-14-01-600-802.

SUBTASK 38-42-00-860-004

- (2) Open this access panel:

Number	Name/Location
146AR	Water Service Door

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-464

NOTE: The air compressor for the potable water system will not operate with the Water Service Door, 146AR, in the open position.

LOM ALL

- (a) Make sure that the fill/overflow valve is closed.

SUBTASK 38-42-00-860-005

- (3) Close this access panel:

Number	Name/Location
146AR	Water Service Door

SUBTASK 38-42-00-200-003

- (4) Make sure that the CAB/UTIL switch, on the P5-13 panel, is in the ON position.

SUBTASK 38-42-00-200-005

- (5) Make sure that the pressure from the pneumatic system is removed (TASK 36-00-00-860-806).

EFFECTIVITY
LOM ALL

38-42-00



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SUBTASK 38-42-00-010-005

- (6) To get access to the P91 panel, open this access door:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-42-00-860-007



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.

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

Power Distribution Panel Number 1, P91

Row Col Number Name

LOM 402, 404, 406

A 18 C00873 POT WATER COMPRESSOR

LOM 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-999

D 11 C00873 POT WATER COMPRESSOR

LOM ALL

SUBTASK 38-42-00-410-004

- (8) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-42-00-010-006

- (9) Open this door:

Number Name/Location

822 Aft Cargo Door

SUBTASK 38-42-00-200-002

- (10) Make sure that the potable water air compressor operates.

NOTE: Electrical power is necessary to pressurize the potable water system.

EFFECTIVITY
LOM ALL

38-42-00



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AIRCRAFT MAINTENANCE MANUAL

SUBTASK 38-42-00-410-003



WARNING

SEAL THE CARGO COMPARTMENT WITH THE LINING. OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN YOU INSTALL THE LINING. IF YOU INSTALL THE LINING INCORRECTLY, THE SMOKE CAN GET INTO THE PASSENGER COMPARTMENT DURING A FIRE.

- (11) To install the waste tank enclosure lining, do this task: Waste Tank Enclosure Panel - Installation, TASK 25-52-20-400-801.

SUBTASK 38-42-00-410-005

- (12) Close this door:

<u>Number</u>	<u>Name/Location</u>
822	Aft Cargo Door

———— END OF TASK ————

— EFFECTIVITY —
LOM ALL

38-42-00



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AIRCRAFT MAINTENANCE MANUAL

WATER TANK PRESSURIZATION - ADJUSTMENT/TEST

1. General

- A. This procedure has these tasks:
- (1) An operational test of the water tank pressurization system.
 - (2) An operational test the pressure regulator.

TASK 38-42-00-800-803

2. Water Tank Pressurization System - Operational Test

A. References

Reference	Title
36-00-00-860-806	Remove Pressure from the Pneumatic System (P/B 201)
38-10-00-790-801	Potable Water System - Leak Test (P/B 201)

B. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
146	Aft Cargo Compartment Equipment Bay - Right
211	Flight Compartment - Left

C. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
146AR	Water Service Door

D. Release Pressure from the Potable Water System

SUBTASK 38-42-00-860-008

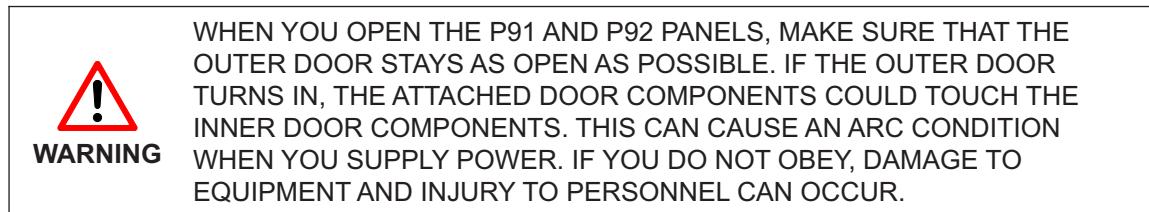
- (1) Do this task: Remove Pressure from the Pneumatic System, TASK 36-00-00-860-806.

SUBTASK 38-42-00-860-009

- (2) To get access to the P91 panel, open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 38-42-00-860-022



EFFECTIVITY
LOM ALL

38-42-00



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AIRCRAFT MAINTENANCE MANUAL

(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) Open these circuit breakers:

Power Distribution Panel Number 1, P91

Row Col Number Name

LOM 402, 404, 406

A 18 C00873 POT WATER COMPRESSOR

LOM 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-999

D 11 C00873 POT WATER COMPRESSOR

LOM ALL

SUBTASK 38-42-00-860-010

- (4) Open this access panel:

Number Name/Location

146AR Water Service Door

- (a) Turn the handle of the fill/overflow valve to open.

SUBTASK 38-42-00-860-011

- (5) When no more air comes out of the overflow port, close the fill/overflow valve.

SUBTASK 38-42-00-860-012

- (6) Close this access panel:

Number Name/Location

146AR Water Service Door

SUBTASK 38-42-00-860-013



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.

EFFECTIVITY
LOM ALL

38-42-00



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

(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.

- (7) Close these circuit breakers:

Power Distribution Panel Number 1, P91

Row Col Number Name

LOM 402, 404, 406

A 18 C00873 POT WATER COMPRESSOR

LOM 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-999

D 11 C00873 POT WATER COMPRESSOR

LOM ALL

SUBTASK 38-42-00-410-008

- (8) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-42-00-840-001

- (9) On the P5-13 overhead panel, make sure that the CAB/UTIL switch is in the ON position.

SUBTASK 38-42-00-710-002

- (10) Make sure that the air compressor comes on and the air compressor shuts off.

SUBTASK 38-42-00-710-003

- (11) If the air compressor shuts off after approximately 10 minutes, the system operation is satisfactory.

- (a) If the air compressor does not shut off after approximately 10 minutes, do this task:
Potable Water System - Leak Test, TASK 38-10-00-790-801.

———— END OF TASK ————

TASK 38-42-00-800-804

3. Pressure Regulator - Operational Test

A. References

Reference	Title
12-14-01-600-802	Potable Water Tank - Fill (P/B 301)
25-52-09-000-801	Cargo Compartment Ceiling Liner - Removal (P/B 401)
25-52-09-400-801	Cargo Compartment Ceiling Liner - Installation (P/B 401)
36-00-00-860-802	Supply Pressure to the Pneumatic System with an External Ground Air Source (P/B 201)
38-42-08-000-801	Pressure Regulator Removal (P/B 401)
38-42-08-400-801	Pressure Regulator Installation (P/B 401)

EFFECTIVITY
LOM ALL

38-42-00



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B. Tools/Equipment

Reference	Description
STD-1091	Gauge - Air Pressure, 0-100 PSIG (0-690 KPa)

C. Pressure Regulator Operational Test

SUBTASK 38-42-00-020-001

- (1) Do this task: Cargo Compartment Ceiling Liner - Removal, TASK 25-52-09-000-801.

SUBTASK 38-42-00-020-002

- (2) Remove the cap from the tee of the potable water line.

SUBTASK 38-42-00-480-001

- (3) Connect the pressure gauge (0-100 PSIG) (0-690 KPa), STD-1091 to the tee fitting.

SUBTASK 38-42-00-610-002

- (4) If the potable water tank is not full, do this task: Potable Water Tank - Fill, TASK 12-14-01-600-802.

SUBTASK 38-42-00-610-003

- (5) To pressurize the pneumatic system with at least 40 psig, do this task: Supply Pressure to the Pneumatic System with an External Ground Air Source, TASK 36-00-00-860-802.

SUBTASK 38-42-00-860-014

- (6) Do a check of the pressure on the pneumatic manifold to make sure the pneumatic pressure is not less than 40 psig.

SUBTASK 38-42-00-860-015

- (7) Read the pressure gauge (0-100 PSIG) (0-690 KPa), STD-1091 in the potable water system.

- (a) Make sure the pressure is 33 to 37 psig.

- (b) If the pressure is not 33 to 37 psig, replace the regulator.

These are the tasks:

Pressure Regulator Removal, TASK 38-42-08-000-801,

Pressure Regulator Installation, TASK 38-42-08-400-801.

D. Put the Airplane Back to Its Usual Condition

SUBTASK 38-42-00-860-016

- (1) Disconnect the pressure gauge (0-100 PSIG) (0-690 KPa), STD-1091 from the tee fitting.

SUBTASK 38-42-00-860-017

- (2) Install the cap on the tee of the potable water line.

SUBTASK 38-42-00-020-003

- (3) Do this task: Cargo Compartment Ceiling Liner - Installation, TASK 25-52-09-400-801.

———— END OF TASK ————

EFFECTIVITY
LOM ALL

38-42-00



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AIR COMPRESSOR - REMOVAL/INSTALLATION

1. **General**

A. General

- (1) This procedure has these tasks:
 - (a) A removal of the air compressor.
 - (b) An installation of the air compressor.
- (2) Leaking hose connections or a leaking check valve can cause frequent or continuous air compressor operation leading to compressor failure. The check valve can be replaced when replacing the compressor as a preventative step.

TASK 38-42-01-000-801

2. **Air Compressor Removal**

(Figure 401)

A. **References**

Reference	Title
38-42-00-800-801	Potable Water System - Deactivation (P/B 201)

B. **Location Zones**

Zone	Area
117	Electrical and Electronics Compartment - Left
142	Aft Cargo Compartment - Right

C. **Access Panels**

Number	Name/Location
117A	Electronic Equipment Access Door

D. **Prepare for the Removal**

SUBTASK 38-42-01-860-001

- (1) To get access to the P91 panel, open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 38-42-01-860-006



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.

EFFECTIVITY
LOM ALL

38-42-01



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

(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.

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

Power Distribution Panel Number 1, P91

Row Col Number Name

LOM 402, 404, 406

A 18 C00873 POT WATER COMPRESSOR

LOM 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-999

D 11 C00873 POT WATER COMPRESSOR

LOM ALL

SUBTASK 38-42-01-860-002

- (3) Do this task: Potable Water System - Deactivation, TASK 38-42-00-800-801.

E. Air Compressor Removal

SUBTASK 38-42-01-020-001

- (1) Disconnect the electrical connector [10] from the air compressor assembly [7].

SUBTASK 38-42-01-020-002

- (2) Disconnect the hose [8] from the union [1] on the outlet of the air compressor assembly [7].

SUBTASK 38-42-01-020-003

- (3) Disconnect the clamp [5], hose [6], and adapter [9] attached to the inlet of the air compressor assembly [7].

SUBTASK 38-42-01-020-004

- (4) Remove the screws [3] and washers [4] to disconnect the air compressor assembly [7] from the structure.

SUBTASK 38-42-01-020-005

- (5) Remove the air compressor assembly [7].

SUBTASK 38-42-01-020-006

- (6) Put a cap on the hose [8] to keep out contamination.

SUBTASK 38-42-01-020-007

- (7) Remove the union [1] and packing [2] from the air compressor assembly [7].

- (a) Discard the packing [2].

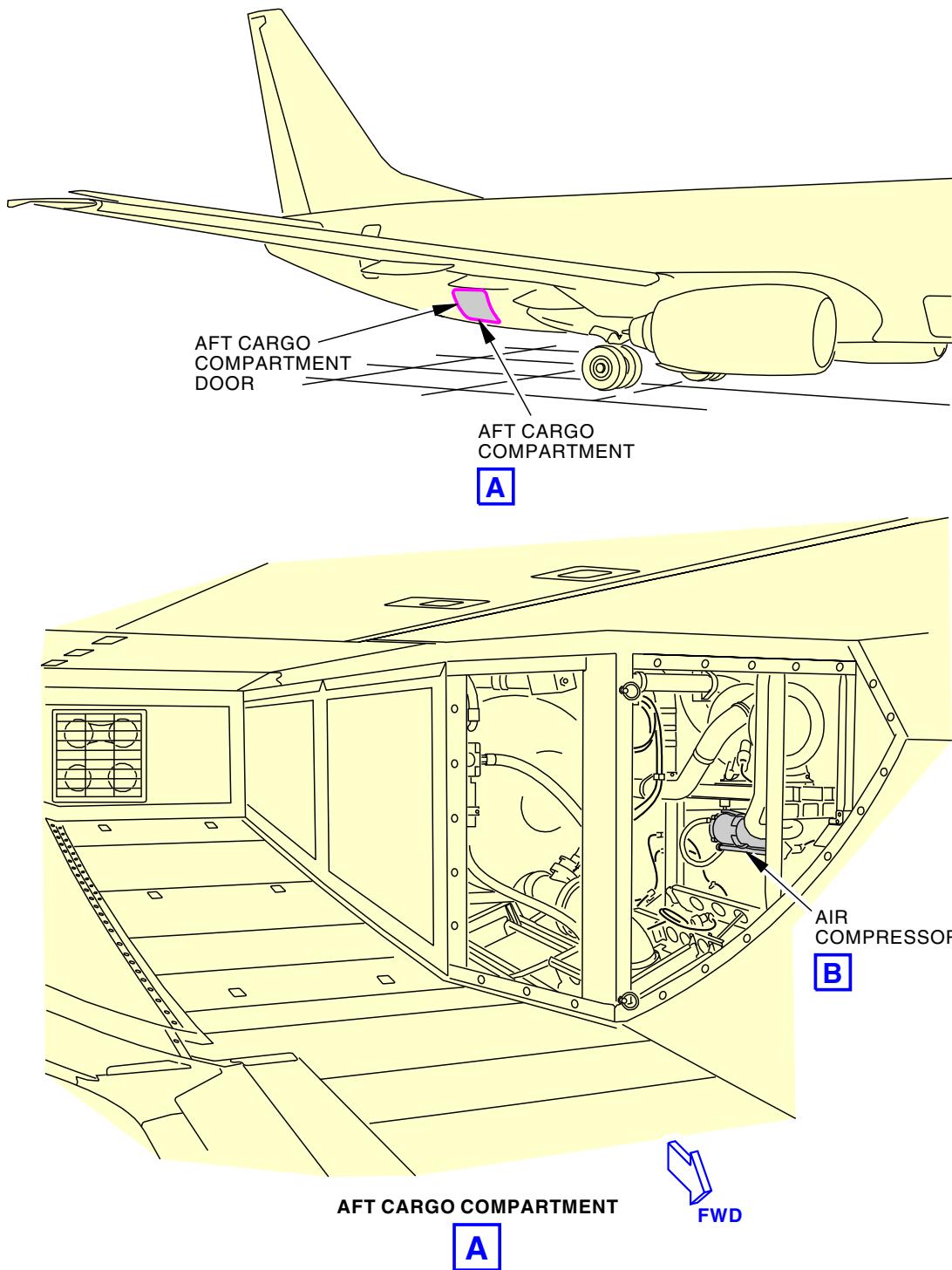
———— END OF TASK ————

———— EFFECTIVITY ————
LOM ALL

38-42-01



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Air Compressor Installation
Figure 401/38-42-01-990-802 (Sheet 1 of 2)

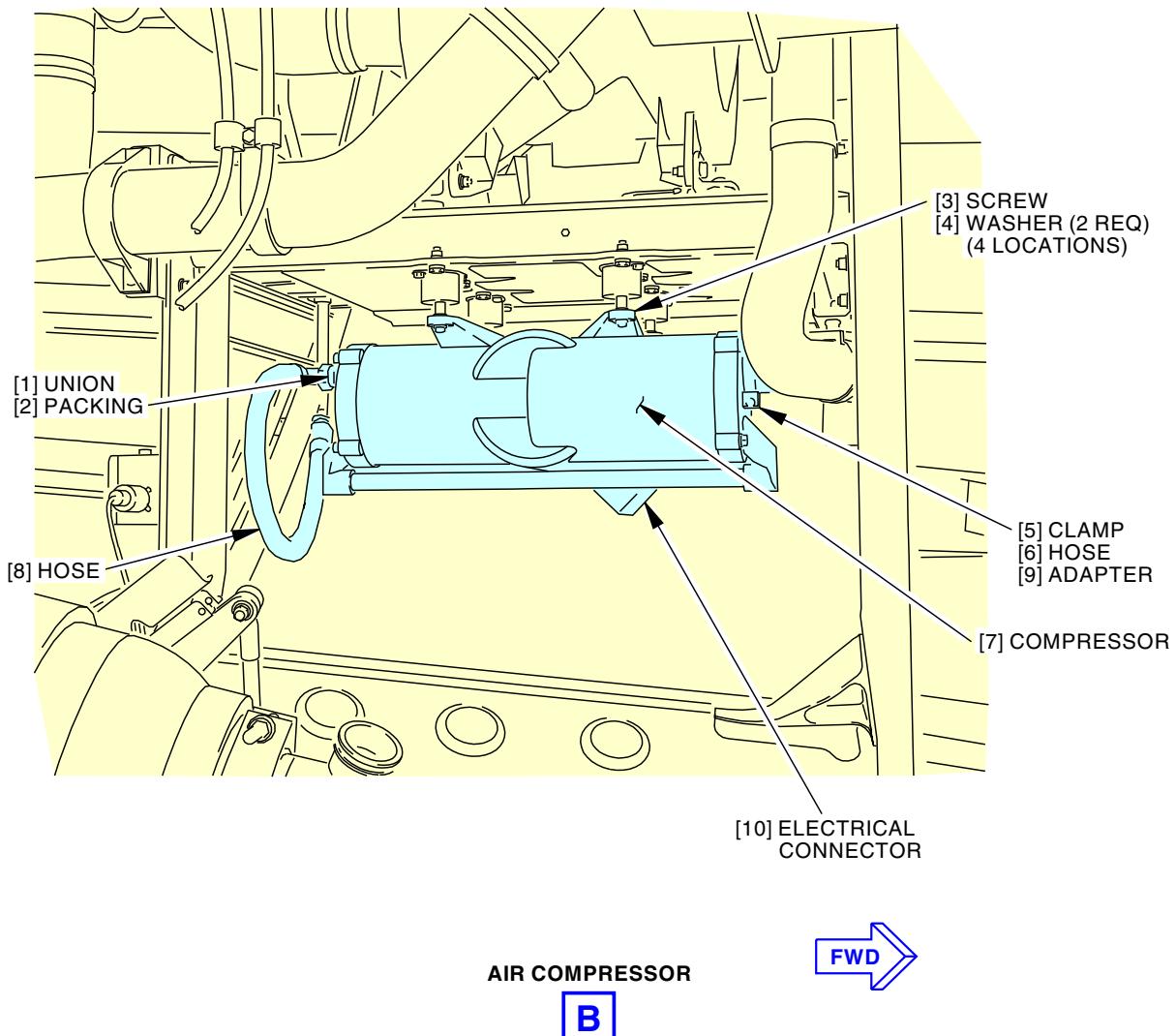
EFFECTIVITY
LOM ALL

38-42-01

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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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Air Compressor Installation
Figure 401/38-42-01-990-802 (Sheet 2 of 2)

EFFECTIVITY
LOM ALL

38-42-01

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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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TASK 38-42-01-400-801

3. Air Compressor Installation

(Figure 401)

A. References

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
25-52-20-400-801	Waste Tank Enclosure Panel - Installation (P/B 401)
38-42-00-800-802	Portable Water System - Activation (P/B 201)

B. Consumable Materials

Reference	Description	Specification
D00189	Compound - Molykote 111 (Formerly Dow Corning 111, Valve Sealant and Lubricant)	
D00463	Grease - Food Processing Equipment	DOD-G-24650
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)
G00091	Compound - Oxygen System Leak Detection - Snoop Leak Detector	MIL-PRF-25567
G50321	Air - Clean, Dry	BAC5402 Table I

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
2	Packing	38-42-01-01-010	LOM ALL
7	Compressor assembly	38-42-01-01-265	LOM ALL

D. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
142	Aft Cargo Compartment - Right

E. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
822	Aft Cargo Door

F. Air Compressor Installation

SUBTASK 38-42-01-640-001

- (1) Apply the grease, D00463, or Molykote 111 Compound, D00189, to the packing [2] and threads of the union [1].

SUBTASK 38-42-01-617-001

- (2) Clear the hose and line assembly, between the air compressor and check valve, of any contamination.

NOTE: To clean the hose and line assembly, use 40 psig (3 kg/cm²) to 100 psig (7 kg/cm²) clean, dry shop air, or nitrogen, applied at the check valve end of the hose, for 1 to 2 minutes.

EFFECTIVITY
LOM ALL

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- (a) Use clean dry air, G50321, or nitrogen, G00018.

SUBTASK 38-42-01-420-001

- (3) Install a new packing [2] on the union [1].

SUBTASK 38-42-01-420-002

- (4) Install the union [1] with the packing [2] in the air compressor assembly [7].

- (a) Tighten the union [1] to 270 in-lb (30.5 N·m).

SUBTASK 38-42-01-420-003

- (5) Put the air compressor assembly [7] in its position on the mounting plate.

SUBTASK 38-42-01-420-004

- (6) Install the washers [4] and screws [3] for the air compressor assembly [7] to the structure.

SUBTASK 38-42-01-020-008

- (7) Remove the cap on the hose [8].

SUBTASK 38-42-01-420-005

- (8) Connect the hose [8] to the union [1] in the outlet of the air compressor assembly [7].

SUBTASK 38-42-01-420-006

- (9) Put the adapter [9] in its position on the air compressor assemblies [7].

SUBTASK 38-42-01-420-007

- (10) Connect the hose [6] and clamps [5] to the adapter [9].

SUBTASK 38-42-01-420-008

- (11) Connect the electrical connector [10] to the air compressor assembly [7].

SUBTASK 38-42-01-860-008



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.

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

Power Distribution Panel Number 1, P91

Row Col Number Name

LOM 402, 404, 406

A 18 C00873 POT WATER COMPRESSOR

LOM 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-999

D 11 C00873 POT WATER COMPRESSOR

LOM ALL

EFFECTIVITY
LOM ALL

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SUBTASK 38-42-01-860-009

- (13) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-42-01-860-004

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

SUBTASK 38-42-01-860-005

- (15) Activate the potable water system (TASK 38-42-00-800-802).

SUBTASK 38-42-01-790-001

- (16) Make sure that there are no air leaks at the connections to the air compressor assembly [7].

- (a) Apply the Snoop Leak Detector compound, G00091, to all the fittings and connections.
 - 1) Look for bubbles to find any leaks.
 - 2) If you find leaks, tighten the fittings and connections.
- (b) Remove the Snoop Leak Detector compound, G00091, with a clean cotton wiper, G00034, immediately after the check.
 - 1) Make sure that the fittings and connections are dry.

G. Put the Airplane Back to Its Usual Condition

SUBTASK 38-42-01-410-001



WARNING

SEAL THE CARGO COMPARTMENT WITH THE LINING. OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN YOU INSTALL THE LINING. IF YOU INSTALL THE LINING INCORRECTLY, THE SMOKE CAN GET INTO THE PASSENGER COMPARTMENT DURING A FIRE.

- (1) Do this task: Waste Tank Enclosure Panel - Installation, TASK 25-52-20-400-801.

SUBTASK 38-42-01-410-002

- (2) Close this access panel:

Number Name/Location

822 Aft Cargo Door

———— END OF TASK ————

EFFECTIVITY
LOM ALL

38-42-01



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AIRCRAFT MAINTENANCE MANUAL

COMPRESSOR INLET AIR FILTER - REMOVAL/INSTALLATION

1. General

- A. The air compressor has a built-in air filter assembly on its forward side.

NOTE: The air filter assembly has a filter element that you can remove.

- B. This procedure has these tasks:

- (1) A removal of the element from the air filter assembly
(2) An installation of the element in the air filter assembly.

NOTE: You can replace the used filter assembly with a new filter assembly.

TASK 38-42-02-000-801

2. Air Filter Element Removal

(Figure 401)

A. References

Reference	Title
25-52-20-000-801	Waste Tank Enclosure Panel - Removal (P/B 401)
38-42-00-800-801	Portable Water System - Deactivation (P/B 201)

B. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
142	Aft Cargo Compartment - Right

C. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
822	Aft Cargo Door

D. Prepare for the Removal

SUBTASK 38-42-02-010-003

- (1) To get access to the P91 panel.

Open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 38-42-02-860-001



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.

EFFECTIVITY
LOM ALL

38-42-02



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AIRCRAFT MAINTENANCE MANUAL

(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.

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

Power Distribution Panel Number 1, P91

Row Col Number Name

LOM 402, 404, 406

A 18 C00873 POT WATER COMPRESSOR

LOM 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-999

D 11 C00873 POT WATER COMPRESSOR

LOM ALL

SUBTASK 38-42-02-860-002

- (3) To release the pressure from the potable water system, do this task: Potable Water System - Deactivation, TASK 38-42-00-800-801.

SUBTASK 38-42-02-010-001

- (4) Open this access panel:

Number Name/Location

822 Aft Cargo Door

SUBTASK 38-42-02-010-002

- (5) To remove the waste tank enclosure panels, do this task: Waste Tank Enclosure Panel - Removal, TASK 25-52-20-000-801.

E. Air Filter Element Removal

SUBTASK 38-42-02-020-001

- (1) Loosen the clamp [1] to disconnect the hose [2] from the compressor [4].

SUBTASK 38-42-02-020-002

- (2) Remove the adapter [3].

SUBTASK 38-42-02-020-003

- (3) Remove the air filter assembly [5].

SUBTASK 38-42-02-020-004

- (4) Remove the retaining ring [8] from the air filter assembly [5].

NOTE: The retaining ring will be used again in the installation task.

SUBTASK 38-42-02-020-005

- (5) Remove the screen [7] from the air filter assembly [5].

SUBTASK 38-42-02-020-006

- (6) Remove and then discard the packing [6].

SUBTASK 38-42-02-020-007

- (7) Remove the filter [10].

EFFECTIVITY
LOM ALL

38-42-02



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SUBTASK 38-42-02-020-008

- (8) Remove and then discard the packing [11].

— END OF TASK —

TASK 38-42-02-400-801

3. Air Filter Element Installation

(Figure 401)

A. References

Reference	Title
25-52-20-400-801	Waste Tank Enclosure Panel - Installation (P/B 401)
38-42-00-800-802	Potable Water System - Activation (P/B 201)

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
5	Air filter assembly	38-42-01-50-165	LOM ALL
6	Packing	38-42-01-50-185	LOM ALL
8	Retaining ring	38-42-01-50-175	LOM ALL
10	Filter	38-42-01-50-190	LOM ALL
11	Packing	38-42-01-50-170	LOM ALL

C. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
142	Aft Cargo Compartment - Right

D. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
822	Aft Cargo Door

E. Air Filter Element Installation

SUBTASK 38-42-02-420-001

- (1) Make sure that the deflector [9] is in its position in the air filter assembly [5].

SUBTASK 38-42-02-420-002

- (2) Put a new or serviceable filter [10] into the air filter assembly [5].

(a) To make the inlet filter [10] serviceable, clean as follows:

- 1) Soak the filter element in a suitable solvent (such as aliphatic naphtha).
- 2) Reverse flow blow dry with low air pressure.
- 3) Make sure that the filter is in serviceable condition.

SUBTASK 38-42-02-420-003

- (3) Put a new packing [6] into the air filter assembly [5].

SUBTASK 38-42-02-420-004

- (4) Put the screen [7] into its position.

SUBTASK 38-42-02-420-005

- (5) Install the retaining ring [8].

— EFFECTIVITY —
LOM ALL



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SUBTASK 38-42-02-420-006

- (6) Install a new packing [11] on the air filter assembly [5].

SUBTASK 38-42-02-420-007

- (7) Install the air filter assembly [5] into the compressor [4].

SUBTASK 38-42-02-420-011

- (8) Torque the air filter assembly [5] to 77.5 ± 2.5 in-lb (8.8 ± 0.3 N·m).

SUBTASK 38-42-02-420-008

- (9) Install the adapter [3] on the air filter assembly [5].

SUBTASK 38-42-02-420-009

- (10) Put the hose [2] in its position and then install the clamp [1].

F. Air Filter Element Installation Test

SUBTASK 38-42-02-860-003



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.

- (1) Close these circuit breakers:

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
------------	------------	---------------	-------------

LOM 402, 404, 406

A	18	C00873	POT WATER COMPRESSOR
---	----	--------	----------------------

LOM 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-999

D	11	C00873	POT WATER COMPRESSOR
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LOM ALL

SUBTASK 38-42-02-410-003

- (2) Close this access panel:

<u>Number</u>	<u>Name/Location</u>
---------------	----------------------

117A	Electronic Equipment Access Door
------	----------------------------------

SUBTASK 38-42-02-860-004

- (3) Do this task: Potable Water System - Activation, TASK 38-42-00-800-802.

SUBTASK 38-42-02-710-001

- (4) Make sure that the air compressor operates without leakage.

EFFECTIVITY
LOM ALL

38-42-02



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G. Put the Airplane Back to Its Usual Condition

SUBTASK 38-42-02-410-001



WARNING

WHEN YOU SEAL THE CARGO COMPARTMENT WITH THE LINING MAKE SURE YOU INSTALL THE LINING CORRECTLY. IF THE LINING IS INSTALLED INCORRECTLY SMOKE CAN ENTER THE CARGO COMPARTMENT DURING A FIRE.

- (1) Do this task: Waste Tank Enclosure Panel - Installation, TASK 25-52-20-400-801.

SUBTASK 38-42-02-410-002

- (2) Close this access panel:

Number Name/Location

822 Aft Cargo Door

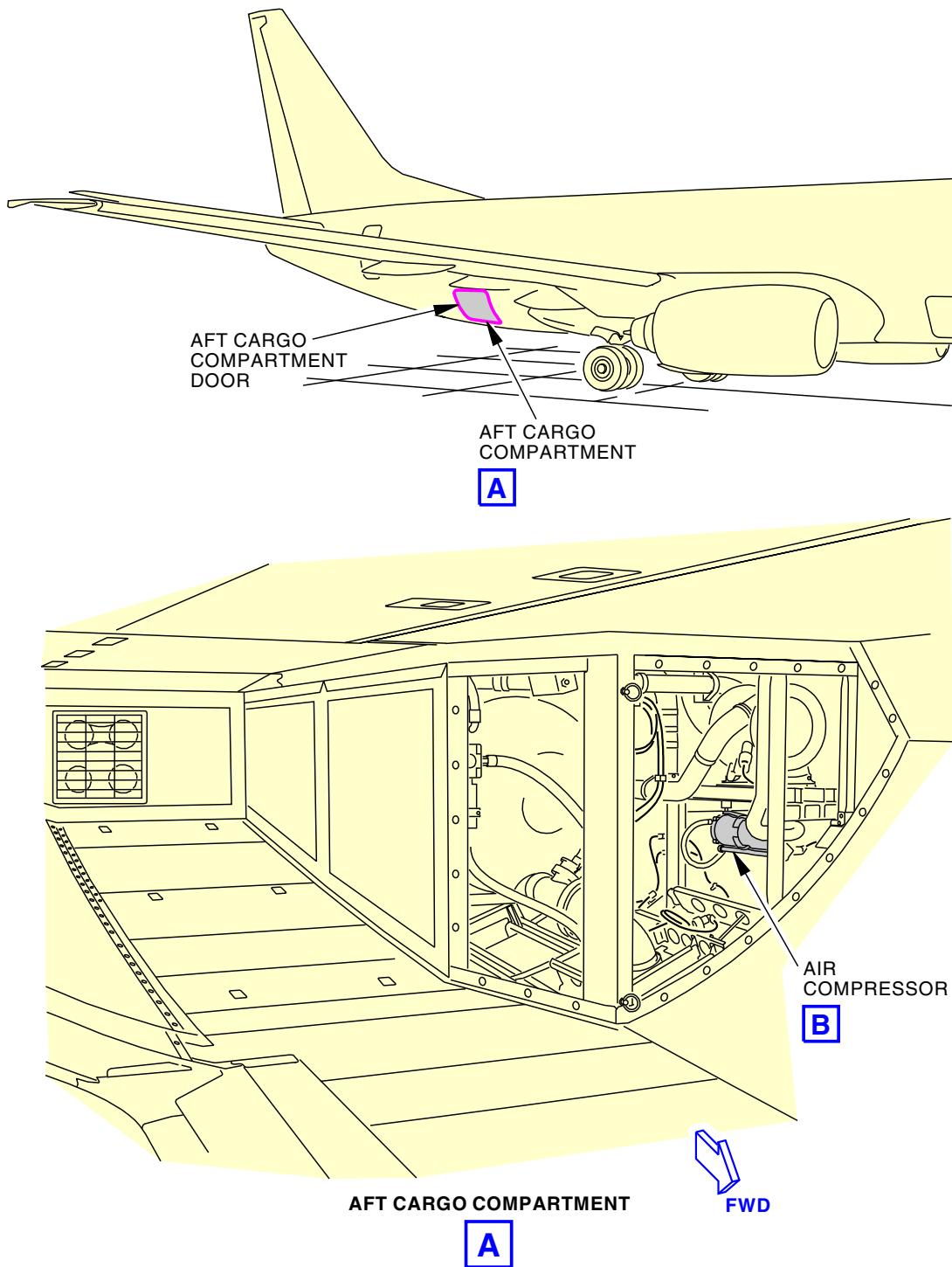
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EFFECTIVITY
LOM ALL

38-42-02



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Compressor Inlet Air Filter Installation
Figure 401/38-42-02-990-801 (Sheet 1 of 2)

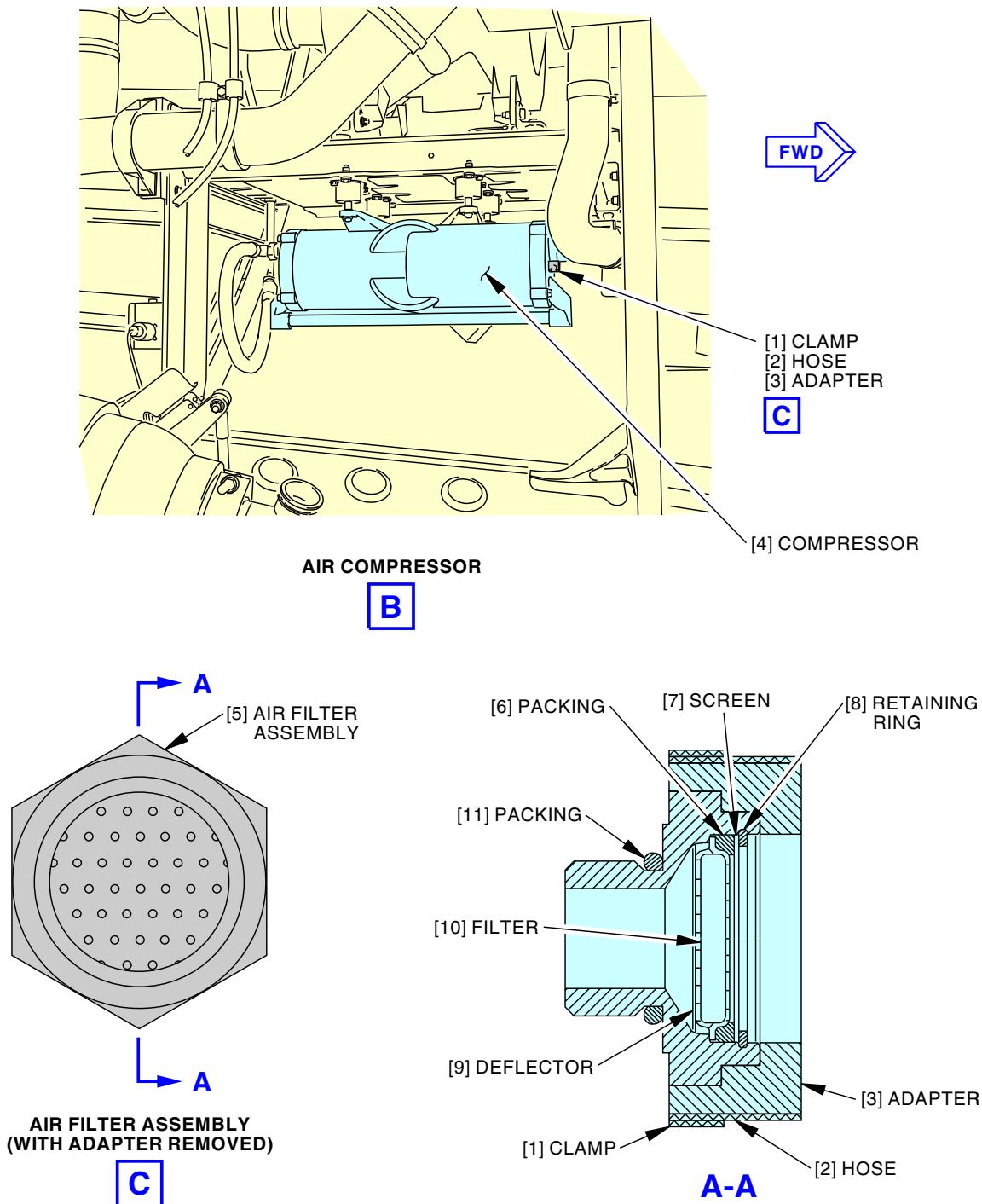
EFFECTIVITY
LOM ALL

38-42-02

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Compressor Inlet Air Filter Installation
Figure 401/38-42-02-990-801 (Sheet 2 of 2)

EFFECTIVITY
LOM ALL

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COMPRESSOR CUT-OUT SWITCH - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
- (1) A removal of the compressor cut-out switch.
 - (2) An installation of the compressor cut-out switch.
 - (a) A check of the electrical integrity of the electrical bond path.

TASK 38-42-03-000-801

2. Compressor Cut-Out Switch Removal

(Figure 401)

A. References

Reference	Title
25-52-10-000-801	Cargo Floor Panel - Removal (P/B 401)
38-42-00-800-801	Potable Water System - Deactivation (P/B 201)

B. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
143	Area Below Aft Cargo Compartment - Left
822	Aft Cargo Door

C. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
146AR	Water Service Door
822	Aft Cargo Door

D. Prepare for the Removal

SUBTASK 38-42-03-010-006

- (1) To get access to the P91 panel, open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 38-42-03-860-001



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.

EFFECTIVITY
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
422-434, 437-447, 450-464

38-42-03

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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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(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.

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

Power Distribution Panel Number 1, P91

Row Col Number Name

LOM 402, 404, 406

A 18 C00873 POT WATER COMPRESSOR

LOM 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-464

D 11 C00873 POT WATER COMPRESSOR

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-464

SUBTASK 38-42-03-860-002

- (3) To release the pressure from the potable water system, do this task: Potable Water System - Deactivation, TASK 38-42-00-800-801.

SUBTASK 38-42-03-010-001

- (4) Open this access panel:

Number Name/Location

822 Aft Cargo Door

SUBTASK 38-42-03-010-002

- (5) To remove the floor panel above the water service panel, do this task: Cargo Floor Panel - Removal, TASK 25-52-10-000-801.

SUBTASK 38-42-03-010-003

- (6) Open this access panel:

Number Name/Location

146AR Water Service Door

E. Compressor Cut-Out Switch Removal

SUBTASK 38-42-03-020-001

- (1) Remove the screws [3] and washers [5] (if applicable) to disconnect the actuator [4] from the bracket on the water service panel.

SUBTASK 38-42-03-020-002

- (2) Disconnect the electrical connector for the sensor [1].

SUBTASK 38-42-03-020-003

- (3) Remove the grommet [6] with the sealant for the electrical wires.

SUBTASK 38-42-03-020-004

- (4) Remove the screws [2] to disconnect the sensor [1].

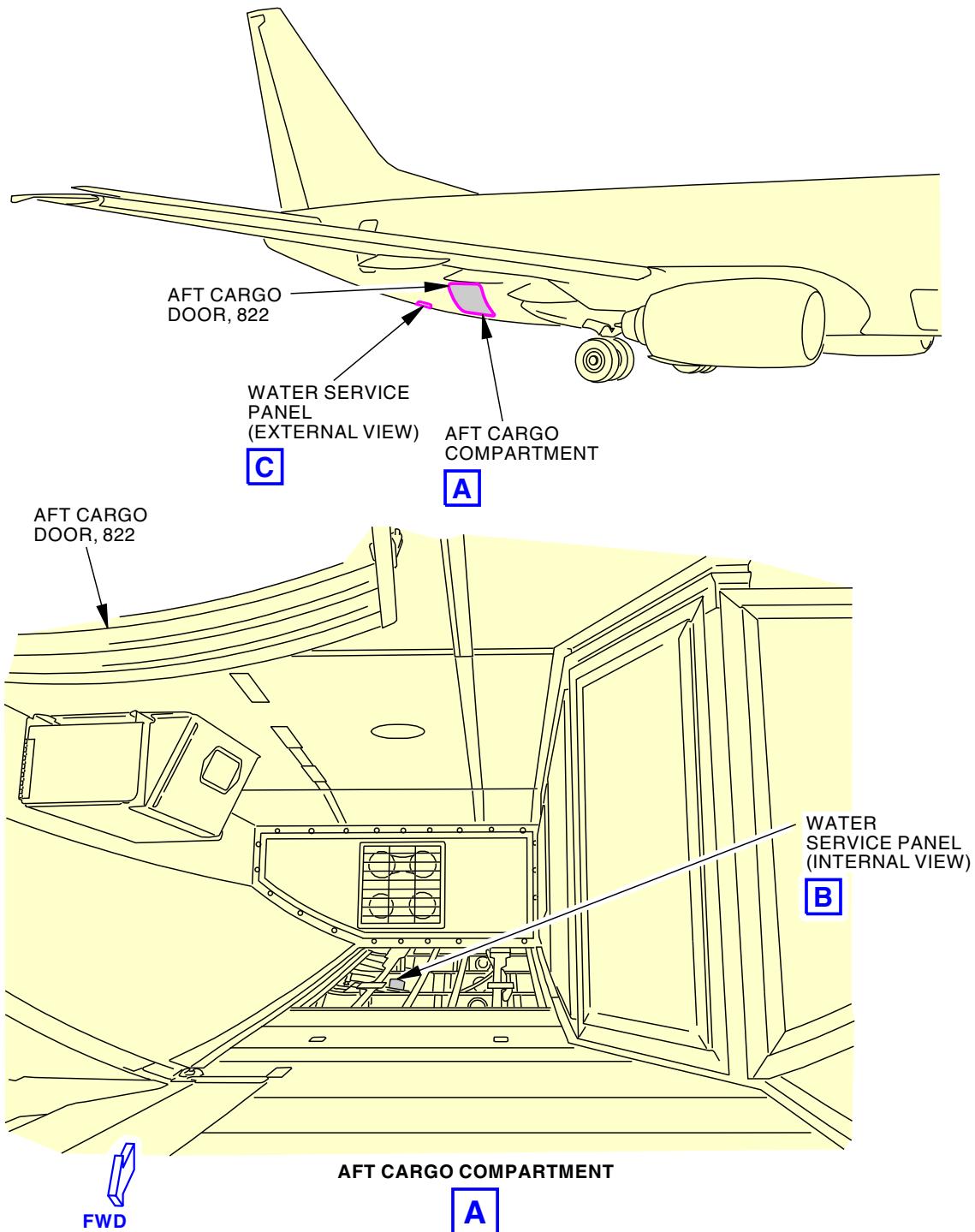
———— END OF TASK ————

— EFFECTIVITY —
**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
422-434, 437-447, 450-464**

38-42-03



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



G33163 S0006578849_V2

Compressor Cut-Out Switch Installation
Figure 401/38-42-03-990-802 (Sheet 1 of 3)

EFFECTIVITY
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
422-434, 437-447, 450-464

38-42-03

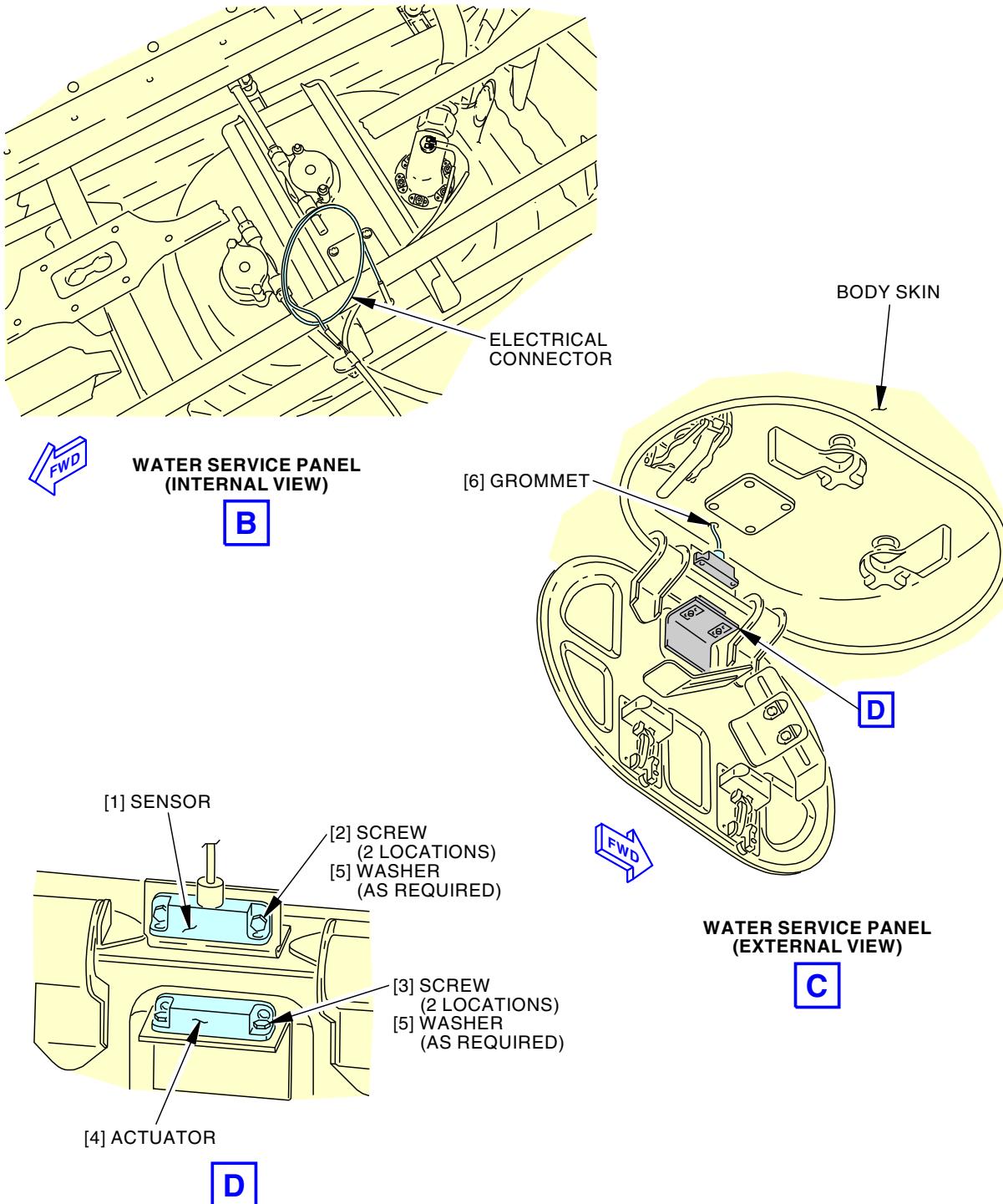
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AIRCRAFT MAINTENANCE MANUAL



G33309 S0006578850_V4

Compressor Cut-Out Switch Installation
Figure 401/38-42-03-990-802 (Sheet 2 of 3)

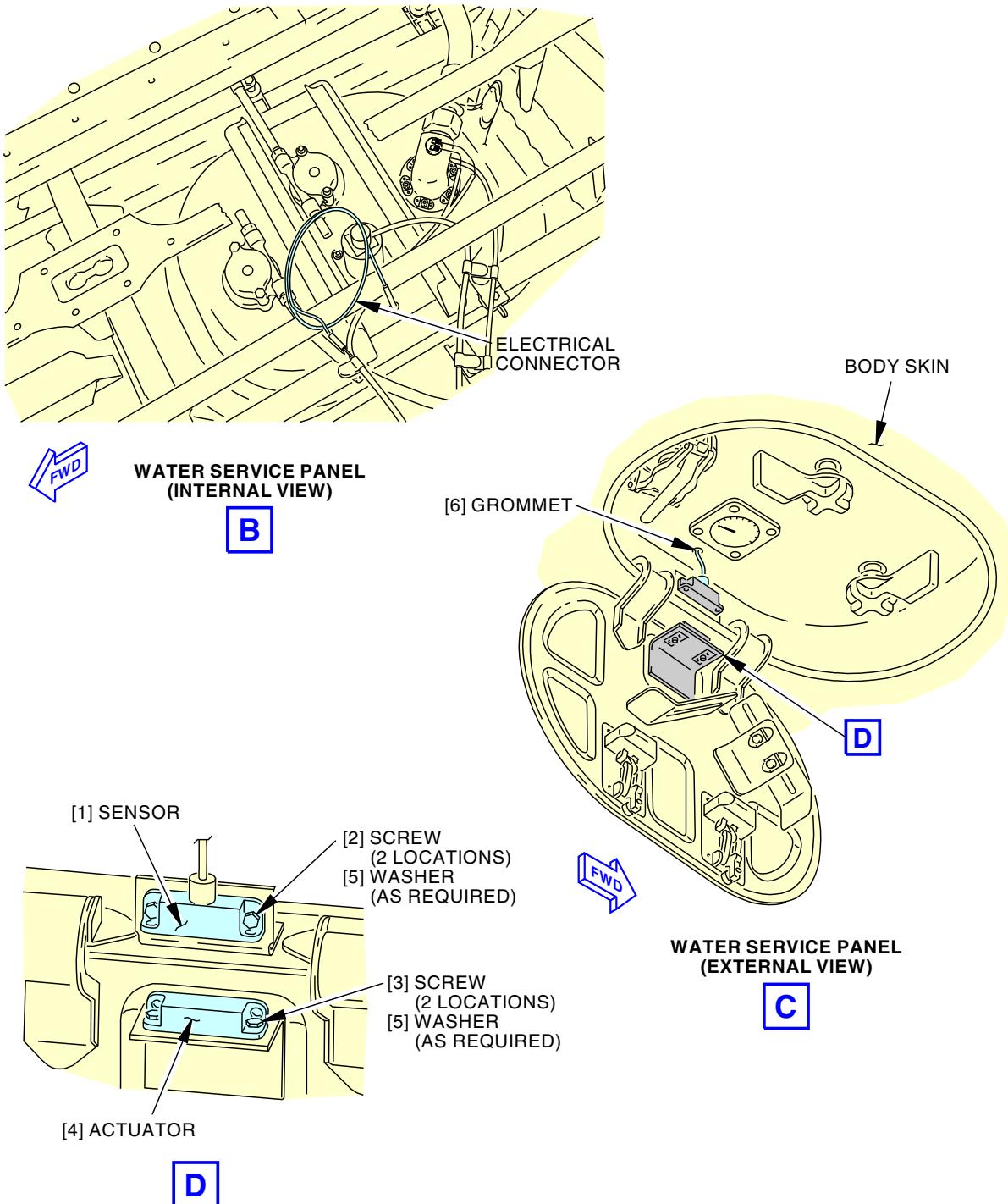
EFFECTIVITY
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
422-431, 433, 434, 437-447, 450-464

38-42-03

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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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3014161 S0000787757_V1

Compressor Cut-Out Switch Installation
Figure 401/38-42-03-990-802 (Sheet 3 of 3)

 EFFECTIVITY
 LOM 432

38-42-03

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AIRCRAFT MAINTENANCE MANUAL

TASK 38-42-03-400-801

3. Compressor Cut-Out Switch Installation

(Figure 401)

A. References

Reference	Title
25-52-10-400-801	Cargo Floor Panel - Installation (P/B 401)
38-42-00-800-802	Potable Water System - Activation (P/B 201)
SWPM 20-20-00	ELECTRICAL BONDING PROCESSES

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-1550	Bonding Meter - Approved, Intrinsically Safe (Approved for use in Class I, Divisions I & II hazardous (classified) locations. Outside these hazardous locations, COM-614 can be used in lieu of COM-1550). Part #: 620LK Supplier: 1CRL2 Part #: M1 Supplier: 3AD17 Part #: M1B Supplier: 3AD17 Part #: T477W (C15292) Supplier: 06659

C. Consumable Materials

Reference	Description	Specification
A00436	Sealant - Fuel Tank	BMS5-45 (Supersedes BMS5-26)

D. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Sensor	38-10-51-09-025	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-464
4	Actuator	38-10-51-09-060	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-464

E. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
142	Aft Cargo Compartment - Right
822	Aft Cargo Door

F. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
146AR	Water Service Door
822	Aft Cargo Door

EFFECTIVITY
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
422-434, 437-447, 450-464

38-42-03



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G. Compressor Cut-Out Switch Installation

SUBTASK 38-42-03-160-002

- (1) Prepare the mounting surfaces on sensor [1] and mounting bracket (SWPM 20-20-00).

SUBTASK 38-42-03-420-001

- (2) Put a new sensor [1] in its position.

SUBTASK 38-42-03-420-002

- (3) Install the screws [2].

SUBTASK 38-42-03-700-002

- (4) Measure the electrical bonding resistance between the sensor [1] and mounting bracket (SWPM 20-20-00).

- Use an intrinsically safe approved bonding meter, COM-1550.
- Make sure that the bonding resistance is 0.0005 ohm (0.5 milliohms) or less.
- If the bonding resistance is not satisfactory, repeat the steps in this procedure.
- If the bonding resistance is satisfactory, continue with the steps to install the compressor cut-out switch.

SUBTASK 38-42-03-420-003

- (5) Put the electrical wires through the hole in the water service panel.

SUBTASK 38-42-03-420-004

- (6) Apply sealant, A00436, to the electrical wires and install the grommet [6].

SUBTASK 38-42-03-420-005

- (7) Install the electrical connector for the sensor [1].

SUBTASK 38-42-03-420-006

- (8) Put the actuator [4] in its position.

SUBTASK 38-42-03-420-007

- (9) Install the screws [3] and washers [5] (if applicable).

NOTE: If the distance between the sensor and actuator is more than 0.3 in. (7.62 mm), use washers to decrease the distance.

H. Compressor Cut-Out Switch Installation Test

SUBTASK 38-42-03-860-003



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.

EFFECTIVITY
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
422-434, 437-447, 450-464

38-42-03

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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AIRCRAFT MAINTENANCE MANUAL

(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.

- (1) Close these circuit breakers:

Power Distribution Panel Number 1, P91

Row Col Number Name

LOM 402, 404, 406

A 18 C00873 POT WATER COMPRESSOR

LOM 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-464

D 11 C00873 POT WATER COMPRESSOR

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-464

SUBTASK 38-42-03-410-007

- (2) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-42-03-860-004

- (3) Do this task: Potable Water System - Activation, TASK 38-42-00-800-802.

SUBTASK 38-42-03-710-001

- (4) Make sure that the air compressor operates when you close this access panel:

Number Name/Location

146AR Water Service Door

SUBTASK 38-42-03-710-002

- (5) Make sure that the air compressor stops when you open this access panel:

Number Name/Location

146AR Water Service Door

I. Put the Airplane Back to Its Usual Condition

SUBTASK 38-42-03-410-006



WARNING

SEAL THE CARGO COMPARTMENT WITH THE LINING. OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN YOU INSTALL THE LINING. IF YOU INSTALL THE LINING INCORRECTLY, THE SMOKE CAN GET INTO THE PASSENGER COMPARTMENT DURING A FIRE.

- (1) Do this task: Cargo Floor Panel - Installation, TASK 25-52-10-400-801.

SUBTASK 38-42-03-410-002

- (2) Close this access panel:

Number Name/Location

822 Aft Cargo Door

EFFECTIVITY
**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
422-434, 437-447, 450-464**

38-42-03

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SUBTASK 38-42-03-410-003

- (3) Close this access panel:

Number Name/Location
146AR Water Service Door

———— END OF TASK ————

— EFFECTIVITY —
**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,
422-434, 437-447, 450-464**

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AIRCRAFT MAINTENANCE MANUAL

PRESSURE RELIEF VALVE - MAINTENANCE PRACTICES

1. General

- A. This procedure has these tasks:
- (1) A removal of the pressure relief valve.
 - (2) An installation of the pressure relief valve.
 - (3) An operational test of the pressure relief valve.

TASK 38-42-06-000-801

2. Pressure Relief Valve Removal

(Figure 201)

A. References

Reference	Title
25-52-09-000-801	Cargo Compartment Ceiling Liner - Removal (P/B 401)
38-42-00-800-801	Portable Water System - Deactivation (P/B 201)

B. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
142	Aft Cargo Compartment - Right

C. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
822	Aft Cargo Door

D. Prepare for the Removal

SUBTASK 38-42-06-010-004

- (1) To get access to the P91 panel, open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 38-42-06-860-001



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.

EFFECTIVITY
LOM ALL

38-42-06



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

(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.

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

Power Distribution Panel Number 1, P91

Row Col Number Name

LOM 402, 404, 406

A 18 C00873 POT WATER COMPRESSOR

LOM 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-999

D 11 C00873 POT WATER COMPRESSOR

LOM ALL

SUBTASK 38-42-06-860-002

- (3) Do this task: Potable Water System - Deactivation, TASK 38-42-00-800-801.

SUBTASK 38-42-06-010-001

- (4) Open this access panel:

Number Name/Location

822 Aft Cargo Door

SUBTASK 38-42-06-010-002

- (5) Remove the ceiling panel of the aft cargo compartment forward of the aft bulkhead, do this task: Cargo Compartment Ceiling Liner - Removal, TASK 25-52-09-000-801.

E. Pressure Relief Valve Removal

SUBTASK 38-42-06-020-001



WARNING

DO NOT TURN THE DEFLECTOR CAP WHEN YOU REMOVE OR INSTALL THE PRESSURE RELIEF VALVE. THE PRESSURE AT WHICH THE RELIEF VALVE RELEASES PRESSURE CAN CHANGE IF THE DEFLECTOR CAP TURNS. IF THE RELIEF VALVE DOES NOT RELEASE AT THE CORRECT PRESSURE, INJURIES TO PERSONNEL AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Remove the pressure relief valve [2].

SUBTASK 38-42-06-020-002

- (2) Remove and discard the packing [1] for the pressure relief valve [2].

SUBTASK 38-42-06-910-001

- (3) Put a plug in the fitting to keep contamination out of the potable water system.

———— END OF TASK ————

EFFECTIVITY
LOM ALL

38-42-06



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AIRCRAFT MAINTENANCE MANUAL

TASK 38-42-06-400-801

3. Pressure Relief Valve Installation

(Figure 201)

A. References

Reference	Title
25-52-09-400-801	Cargo Compartment Ceiling Liner - Installation (P/B 401)
38-42-00-800-802	Potable Water System - Activation (P/B 201)

B. Consumable Materials

Reference	Description	Specification
D00189	Compound - Molykote 111 (Formerly Dow Corning 111, Valve Sealant and Lubricant)	
D00463	Grease - Food Processing Equipment	DOD-G-24650

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Packing	38-42-08-01-170	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434
2	Valve	38-42-08-01-172 38-42-08-01-180	LOM 437-447, 450-999 LOM ALL

D. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
142	Aft Cargo Compartment - Right

E. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
822	Aft Cargo Door

F. Pressure Relief Valve Installation

SUBTASK 38-42-06-420-001

- (1) Remove the plug from the fitting.

SUBTASK 38-42-06-640-001

- (2) Apply the grease, D00463, or Molykote 111 Compound, D00189, to the new packing [1] and threads of the pressure relief valve [2].

SUBTASK 38-42-06-420-002

- (3) Install the packing [1] for the pressure relief valve [2].

SUBTASK 38-42-06-420-003



WARNING

DO NOT TURN THE DEFLECTOR CAP WHEN YOU REMOVE OR INSTALL THE PRESSURE RELIEF VALVE. THE PRESSURE AT WHICH THE RELIEF VALVE RELEASES PRESSURE CAN CHANGE IF THE DEFLECTOR CAP TURNS. IF THE RELIEF VALVE DOES NOT RELEASE AT THE CORRECT PRESSURE, INJURIES TO PERSONNEL AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (4) Install the pressure relief valve [2].

EFFECTIVITY
LOM ALL

38-42-06



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AIRCRAFT MAINTENANCE MANUAL

SUBTASK 38-42-06-860-003



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) Remove safety tags and close these circuit breakers:

Power Distribution Panel Number 1, P91

Row Col Number Name

LOM 402, 404, 406

A 18 C00873 POT WATER COMPRESSOR

LOM 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-999

D 11 C00873 POT WATER COMPRESSOR

LOM ALL

SUBTASK 38-42-06-410-005

- (6) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-42-06-860-005

- (7) Do this task: Potable Water System - Activation, TASK 38-42-00-800-802.

SUBTASK 38-42-06-710-001

- (8) Make sure that there are no air leaks at the pressure relief valve.

G. Put the Airplane Back to Its Usual Condition

SUBTASK 38-42-06-410-001



WARNING

SEAL THE CARGO COMPARTMENT WITH THE LINING. OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN YOU INSTALL THE LINING. IF YOU INSTALL THE LINING INCORRECTLY, THE SMOKE CAN GET INTO THE PASSENGER COMPARTMENT DURING A FIRE.

- (1) Do this task: Cargo Compartment Ceiling Liner - Installation, TASK 25-52-09-400-801.

SUBTASK 38-42-06-410-002

- (2) Close this access panel:

Number Name/Location

822 Aft Cargo Door

———— END OF TASK ————

EFFECTIVITY
LOM ALL

38-42-06



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TASK 38-42-06-700-801

4. Pressure Relief Valve - Operational Test

(Figure 202)

A. General

- (1) The test of the pressure relief valve is an off airplane task.

B. Location Zones

Zone	Area
142	Aft Cargo Compartment - Right

C. Operational Test

SUBTASK 38-42-06-020-003

- (1) Do this task: Pressure Relief Valve Removal, TASK 38-42-06-000-801.

SUBTASK 38-42-06-780-001

- (2) Do a test the relief valve as follows:

- (a) With the initial pressure at zero psig, slowly increase the pressure to the relief valve.
(b) Keep a record of the initial pressure when you find the airflow through the pressure relief valve.

NOTE: The pressure must be less than 75 psig.

- 1) If the initial pressure is less than 53 psig or more than 75 psig, you must replace the pressure relief valve.
(c) If the initial pressure is satisfactory, then continue.
(d) With the pressure at relief pressure, slowly decrease the pressure to the relief valve.
(e) Keep a record of the reset pressure when you find that the airflow stops through the pressure relief valve.

NOTE: The pressure must be more than 53 psig.

- 1) If the reset pressure is less than 53 psig, you must replace the pressure relief valve.
(f) If the reset pressure is satisfactory, then continue.
(g) Decrease the pressure to zero psig.
(h) With the pressure at zero psig, slowly increase the pressure to the relief valve.
(i) Keep a record of the subsequent pressure when you find the airflow through the pressure relief valve.

NOTE: The pressure must be between 57 to 63 psig.

- 1) If the subsequent pressure is less than 57 psig or more than 63 psig, you must replace the pressure relief valve.
(j) If the subsequent pressure is satisfactory, then the test is completed.

SUBTASK 38-42-06-420-004

- (3) Do this task: Pressure Relief Valve Installation, TASK 38-42-06-400-801.

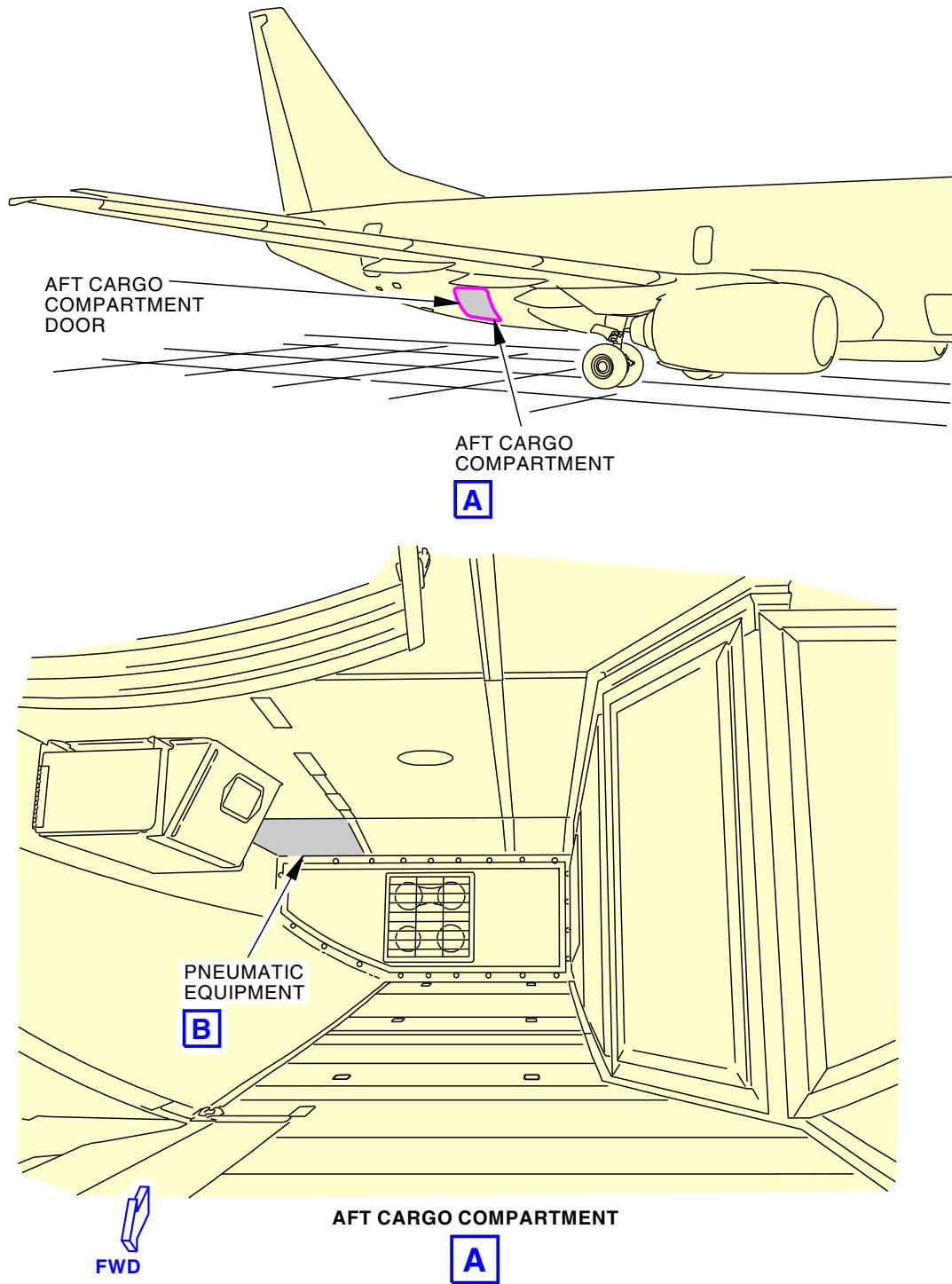
— END OF TASK —

EFFECTIVITY
LOM ALL

38-42-06



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AIRCRAFT MAINTENANCE MANUAL



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Pressure Relief Valve Installation
Figure 201/38-42-06-990-801 (Sheet 1 of 2)

EFFECTIVITY
LOM ALL

38-42-06

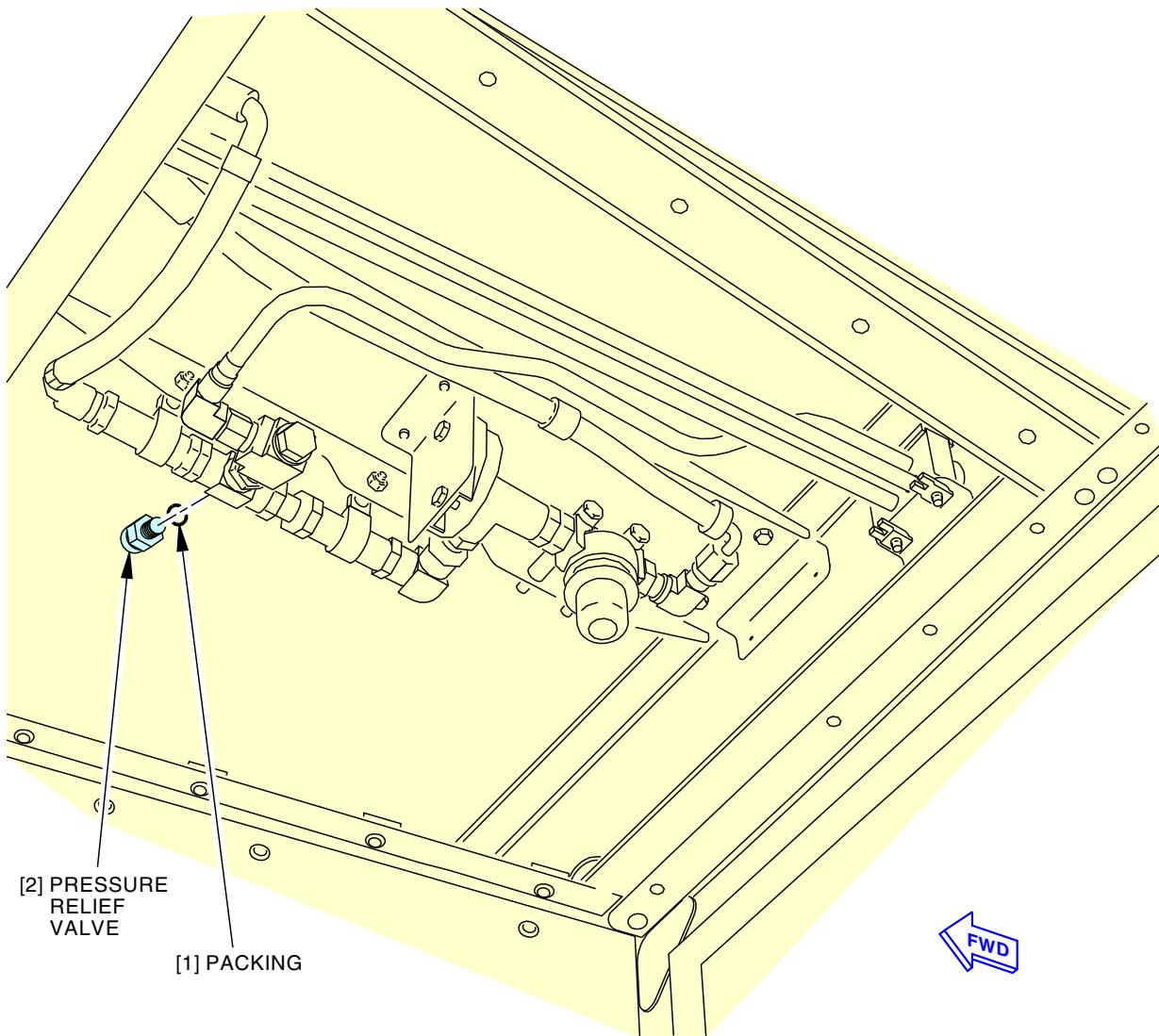
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F94891 S0006578858_V3

Pressure Relief Valve Installation
Figure 201/38-42-06-990-801 (Sheet 2 of 2)

EFFECTIVITY
LOM ALL

38-42-06

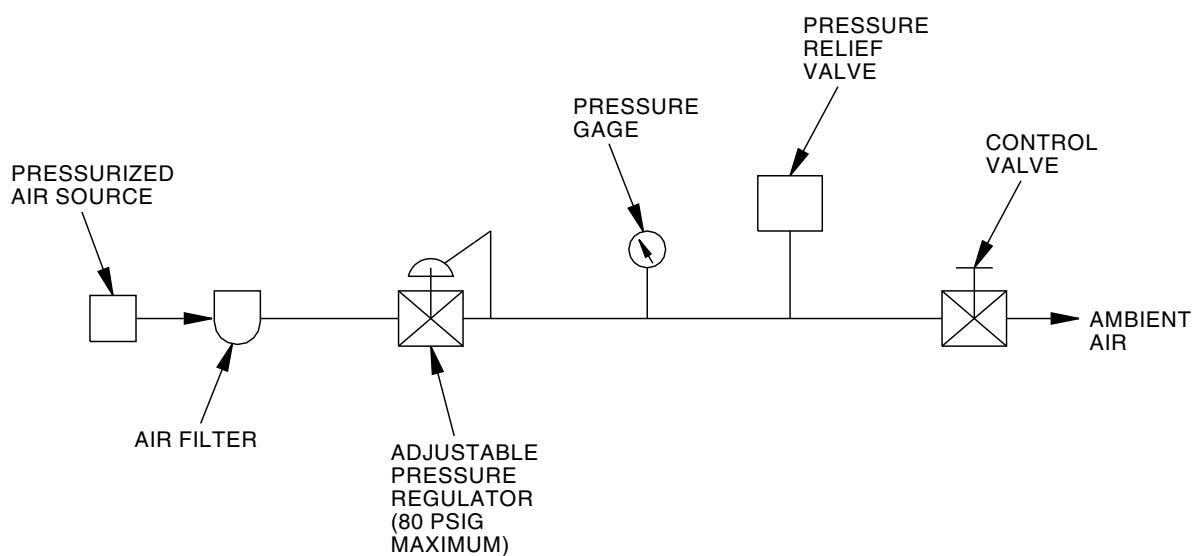
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F94800 S0006578859_V2

Pressure Relief Valve Test
Figure 202/38-42-06-990-802

EFFECTIVITY
LOM ALL

38-42-06

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AIRCRAFT MAINTENANCE MANUAL

WATER PRESSURE CUT-OUT SWITCH - MAINTENANCE PRACTICES

1. General

- A. This procedure has these tasks:
- (1) A removal of the water pressure cut-out switch
 - (2) An installation of the water pressure cut-out switch
 - (3) An operational test of the water pressure cut-out switch.

NOTE: This task is to make sure the air compressor starts and stops at the correct pressure.

TASK 38-42-07-000-801

2. Water Pressure Cut-Out Switch Removal

(Figure 201)

A. References

Reference	Title
25-52-19-000-801	Aft Cargo Compartment Aft Bulkhead Liner - Removal (P/B 401)
38-42-00-800-801	Potable Water System - Deactivation (P/B 201)

B. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
146	Aft Cargo Compartment Equipment Bay - Right

C. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
822	Aft Cargo Door

D. Prepare for the Removal

SUBTASK 38-42-07-860-001

- (1) To get access to the P91 panel, open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 38-42-07-860-014



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.

EFFECTIVITY
LOM ALL

38-42-07



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(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.

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

Power Distribution Panel Number 1, P91

Row Col Number Name

LOM 402, 404, 406

A 18 C00873 POT WATER COMPRESSOR

LOM 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-999

D 11 C00873 POT WATER COMPRESSOR

LOM ALL

SUBTASK 38-42-07-860-002

- (3) Do this task: Potable Water System - Deactivation, TASK 38-42-00-800-801.

SUBTASK 38-42-07-010-001

- (4) Open this access panel:

Number Name/Location

822 Aft Cargo Door

SUBTASK 38-42-07-010-002

- (5) Remove the end wall of the aft cargo compartment, do this task: Aft Cargo Compartment Aft Bulkhead Liner - Removal, TASK 25-52-19-000-801.

E. Water Pressure Cut-Out Switch Removal

SUBTASK 38-42-07-020-001

- (1) Disconnect the electrical connector [2] from the water pressure cut-out switch [3].

SUBTASK 38-42-07-020-002

- (2) Remove the water pressure cut-out switch [3] from the water tank.

SUBTASK 38-42-07-020-003

- (3) Remove and discard the packing [1] from the water pressure cut-out switch [3].

SUBTASK 38-42-07-020-004

- (4) Put a plug in the water tank to keep the contamination out of the potable water system.

———— END OF TASK ————

TASK 38-42-07-400-801

3. Water Pressure Cut-Out Switch Installation

(Figure 201)

A. References

Reference	Title
25-52-19-400-801	Aft Cargo Compartment Aft Bulkhead Liner - Installation (P/B 401)
38-42-00-800-802	Potable Water System - Activation (P/B 201)

EFFECTIVITY
LOM ALL

38-42-07



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B. Consumable Materials

Reference	Description	Specification
D00189	Compound - Molykote 111 (Formerly Dow Corning 111, Valve Sealant and Lubricant)	
D00463	Grease - Food Processing Equipment	DOD-G-24650

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Packing	38-11-01-12-030	LOM 407, 411, 416, 420, 426-428, 439, 441, 445-447, 451, 452, 455, 456, 458-464
		38-11-01-12-265	LOM 407, 411, 416, 420, 426-428, 439, 441, 445-447, 451, 452, 455, 456, 458-464
		38-11-01-12A-075	LOM 465-999
		38-11-01-14-120	LOM 402, 404, 406, 412, 415, 422-425, 429-434, 437, 438, 440, 442-444, 450, 453, 454, 457
3	Water pressure cut-out switch	38-11-01-12-020	LOM 407, 411, 416, 420, 426-428, 439, 441, 445-447, 451, 452, 455, 456, 458-464
		38-11-01-12-023	LOM 407, 411, 416, 420, 426-428, 439, 441, 445-447, 451, 452, 455, 456, 458-464
		38-11-01-12A-050	LOM 465-999
		38-11-01-12A-053	LOM 465-999
		38-11-01-14-110	LOM 402, 404, 406, 412, 415, 422-425, 429-434, 437, 438, 440, 442-444, 450, 453, 454, 457
		38-11-01-14-113	LOM 402, 404, 406, 412, 415, 422-425, 429-434, 437, 438, 440, 442-444, 450, 453, 454, 457

D. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
146	Aft Cargo Compartment Equipment Bay - Right

E. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
822	Aft Cargo Door



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F. Water Pressure Cut-Out Switch Installation

SUBTASK 38-42-07-420-001

- (1) Remove the plug from the water tank.

SUBTASK 38-42-07-640-001

- (2) Apply grease, D00463, or Molykote 111 Compound, D00189, to the packing [1] and threads of the water pressure cut-out switch [3].

SUBTASK 38-42-07-420-002

- (3) Install the new packing [1] on the water pressure cut-out switch [3].

SUBTASK 38-42-07-420-003

- (4) Install the water pressure cut-out switch [3] on the water tank.

SUBTASK 38-42-07-420-004

- (5) Connect the electrical connector [2] to the water pressure cut-out switch [3].

SUBTASK 38-42-07-860-003



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.

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

Power Distribution Panel Number 1, P91

Row Col Number Name

LOM 402, 404, 406

A 18 C00873 POT WATER COMPRESSOR

LOM 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-999

D 11 C00873 POT WATER COMPRESSOR

LOM ALL

SUBTASK 38-42-07-410-011

- (7) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-42-07-860-005

- (8) Do this task: Potable Water System - Activation, TASK 38-42-00-800-802.

SUBTASK 38-42-07-710-001

- (9) Make sure that the air compressor operates to supply the water tank with air pressure.

SUBTASK 38-42-07-710-002

- (10) Make sure that there are no air leaks at the water pressure cut-out switch [3].

EFFECTIVITY
LOM ALL

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SUBTASK 38-42-07-700-001

- (11) Do this task: Water Pressure Cut-Out Switch Operational Test, TASK 38-42-07-700-801.

G. Put the Airplane Back to Its Usual Condition

SUBTASK 38-42-07-410-001



WARNING

SEAL THE CARGO COMPARTMENT WITH THE LINING. OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN YOU INSTALL THE LINING. IF YOU INSTALL THE LINING INCORRECTLY, THE SMOKE CAN GET INTO THE PASSENGER COMPARTMENT DURING A FIRE.

- (1) Do this task: Aft Cargo Compartment Aft Bulkhead Liner - Installation, TASK 25-52-19-400-801.

SUBTASK 38-42-07-410-002

- (2) Close this access panel:

<u>Number</u>	<u>Name/Location</u>
822	Aft Cargo Door

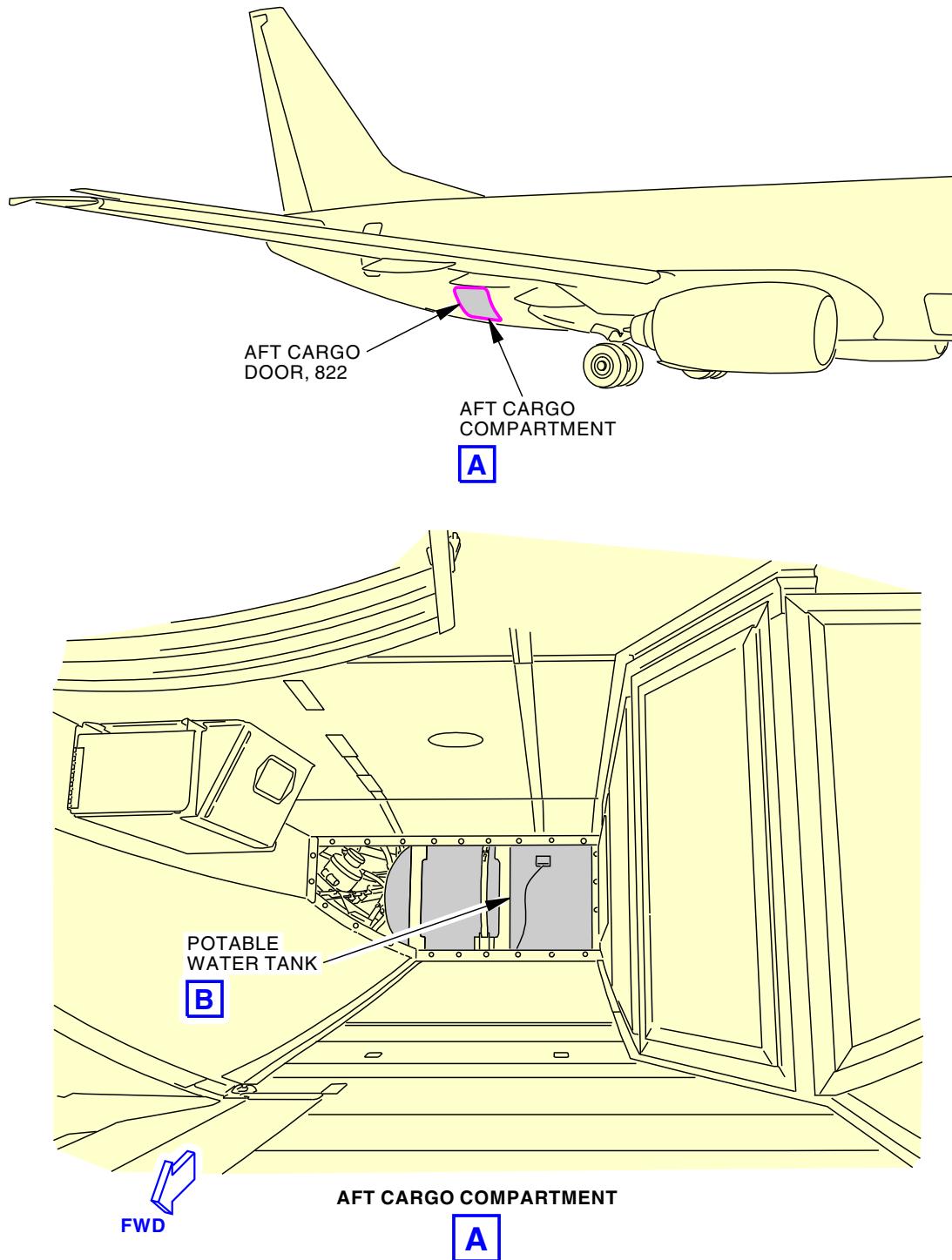
———— END OF TASK ————

EFFECTIVITY
LOM ALL

38-42-07



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G20139 S0006578867_V3

Water Pressure Cut-Out Switch
Figure 201/38-42-07-990-806 (Sheet 1 of 2)

EFFECTIVITY
LOM ALL

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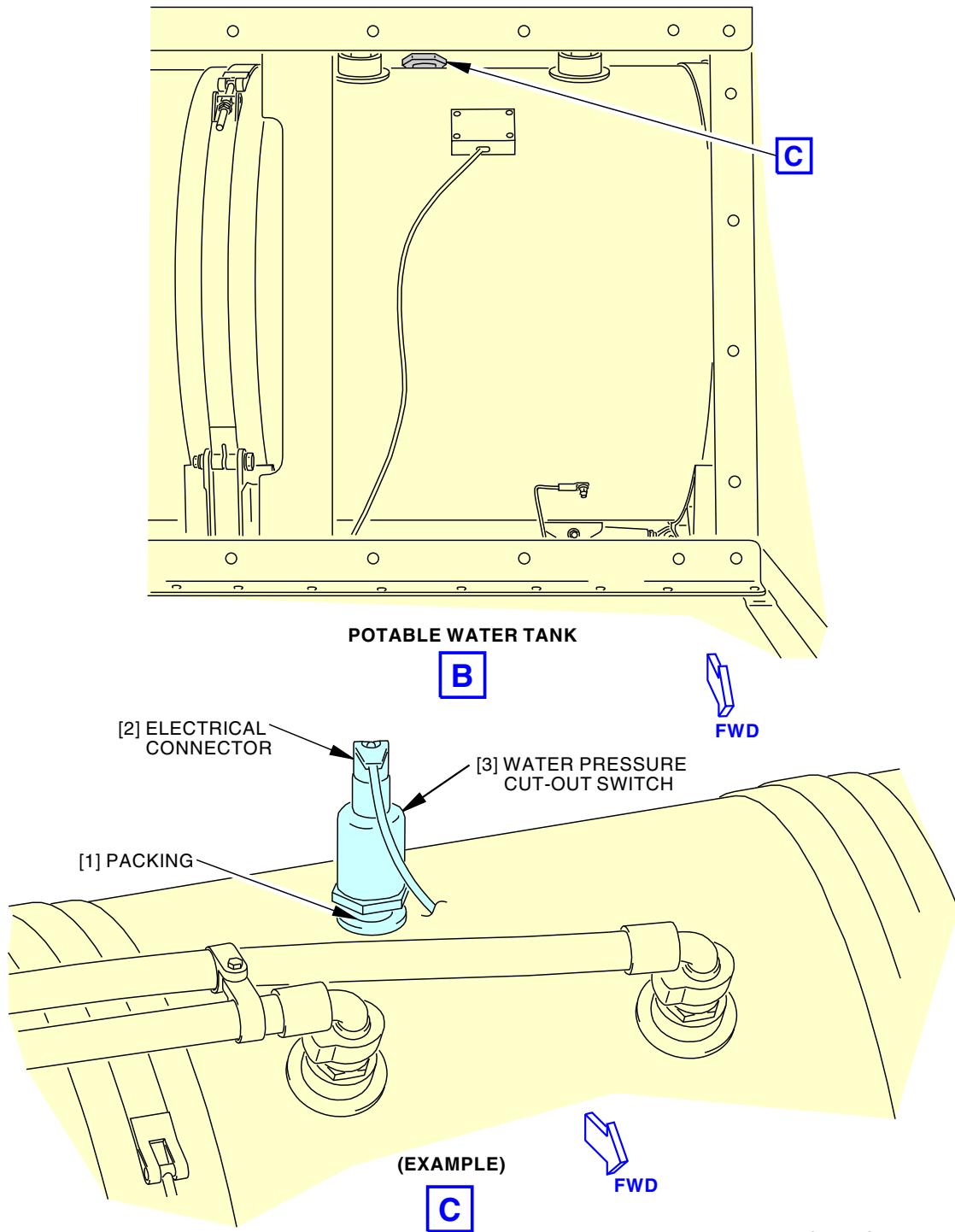
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AIRCRAFT MAINTENANCE MANUAL



G20278 S0006578873_V4

Water Pressure Cut-Out Switch
Figure 201/38-42-07-990-806 (Sheet 2 of 2)

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TASK 38-42-07-700-801

4. Water Pressure Cut-Out Switch Operational Test

(Figure 202)

A. References

Reference	Title
12-14-01-600-802	Potable Water Tank - Fill (P/B 301)
25-52-09-000-801	Cargo Compartment Ceiling Liner - Removal (P/B 401)
25-52-09-400-801	Cargo Compartment Ceiling Liner - Installation (P/B 401)
25-52-19-000-801	Aft Cargo Compartment Aft Bulkhead Liner - Removal (P/B 401)
38-42-00-800-801	Potable Water System - Deactivation (P/B 201)
38-42-00-800-802	Potable Water System - Activation (P/B 201)

B. Tools/Equipment

Reference	Description
STD-1201	Gauge - Pressure, 0-75 PSIG (0-518 KPa)

C. Location Zones

Zone	Area
146	Aft Cargo Compartment Equipment Bay - Right

D. Access Panels

Number	Name/Location
822	Aft Cargo Door

E. Water Pressure Cut-Out Switch Operational Test

SUBTASK 38-42-07-860-010

- (1) On the P5-13 overhead panel, make sure that the CAB/UTIL switch is set to the ON position.

SUBTASK 38-42-07-860-007

- (2) Do this task: Potable Water System - Deactivation, TASK 38-42-00-800-801.

SUBTASK 38-42-07-610-001

- (3) Do this task: Potable Water Tank - Fill, TASK 12-14-01-600-802.

SUBTASK 38-42-07-010-003

- (4) Open this access panel:

Number	Name/Location
822	Aft Cargo Door

SUBTASK 38-42-07-010-004

- (5) To remove the ceiling panel in the aft cargo compartment, do this task: Cargo Compartment Ceiling Liner - Removal, TASK 25-52-09-000-801.

SUBTASK 38-42-07-010-009

- (6) To remove the end wall of the aft cargo compartment, do this task: Aft Cargo Compartment Aft Bulkhead Liner - Removal, TASK 25-52-19-000-801.

SUBTASK 38-42-07-010-005

- (7) Remove the plug [22] and packing [23] from the tee-fitting [21] in the pressurization line for the potable water system.

SUBTASK 38-42-07-480-001

- (8) Connect the pressure gauge, STD-1201, to the tee in the potable water line.

EFFECTIVITY
LOM ALL

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SUBTASK 38-42-07-780-001

- (9) With the airplane compressor, do this task: Potable Water System - Activation, TASK 38-42-00-800-802.
- Make sure the air compressor stops when the pressure gets to 40 ± 1 psig (276 ± 7 kPa).
 - If the air compressor does not stop when the pressure gets to 40 ± 1 psig (276 ± 7 kPa), replace the water pressure cut-out switch.
 - If the air compressor stops when the pressure gets to 40 ± 1 psig (276 ± 7 kPa), then continue.

SUBTASK 38-42-07-780-002

- (10) Turn the handle at the aft service panel to slowly bleed the air from the potable water system.
- Make sure the air compressor starts when the pressure gets to 30 ± 1 psig (207 ± 7 kPa).
 - If the air compressor does not start when the pressure gets to 30 ± 1 psig (207 ± 7 kPa), replace the water pressure cut-out switch.
 - If the air compressor starts when the pressure gets to 30 ± 1 psig (207 ± 7 kPa), the test is completed.

F. Put the Airplane Back to Its Usual Condition

SUBTASK 38-42-07-860-008

- (1) Do this task: Potable Water System - Deactivation, TASK 38-42-00-800-801.

SUBTASK 38-42-07-080-001

- (2) Disconnect the pressure gauge, STD-1201, from the tee.

SUBTASK 38-42-07-420-005

- (3) Install the plug [22] and packing [23] on the tee-fitting [21] in the pressurization line for the potable water system.

SUBTASK 38-42-07-860-009

- (4) Do this task: Potable Water System - Activation, TASK 38-42-00-800-802.

SUBTASK 38-42-07-710-003

- (5) Make sure there are no air leaks at the cap.

SUBTASK 38-42-07-410-003



WARNING

SEAL THE CARGO COMPARTMENT WITH THE LINING. OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN YOU INSTALL THE LINING. IF YOU INSTALL THE LINING INCORRECTLY, THE SMOKE CAN GET INTO THE PASSENGER COMPARTMENT DURING A FIRE.

- (6) Do this task: Cargo Compartment Ceiling Liner - Installation, TASK 25-52-09-400-801.

SUBTASK 38-42-07-410-004

- (7) Close this access panel:

Number Name/Location

822 Aft Cargo Door

———— END OF TASK ————

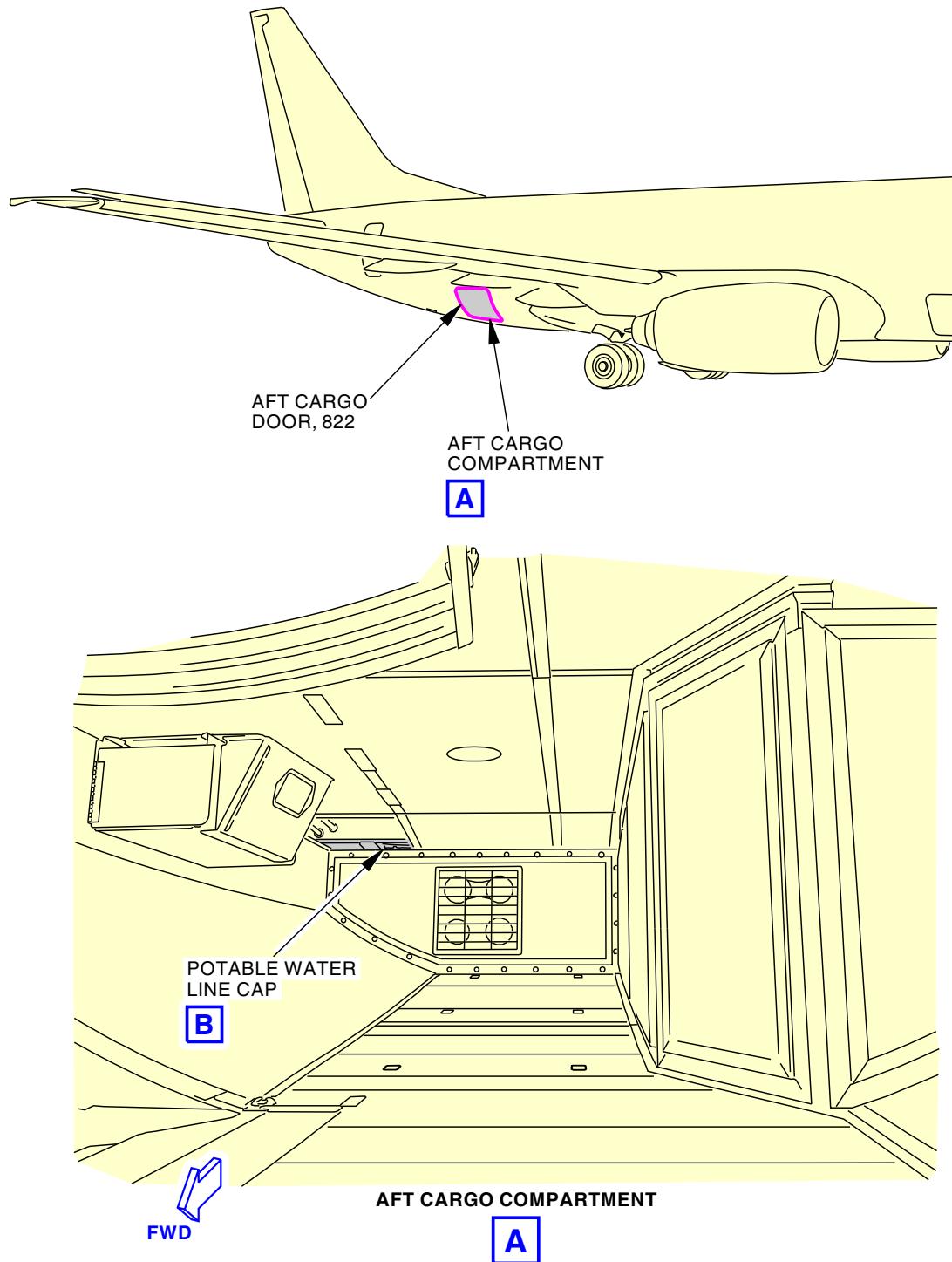
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Water Pressure Cut-Out Switch Operational Test
Figure 202/38-42-07-990-804 (Sheet 1 of 2)

EFFECTIVITY
LOM ALL

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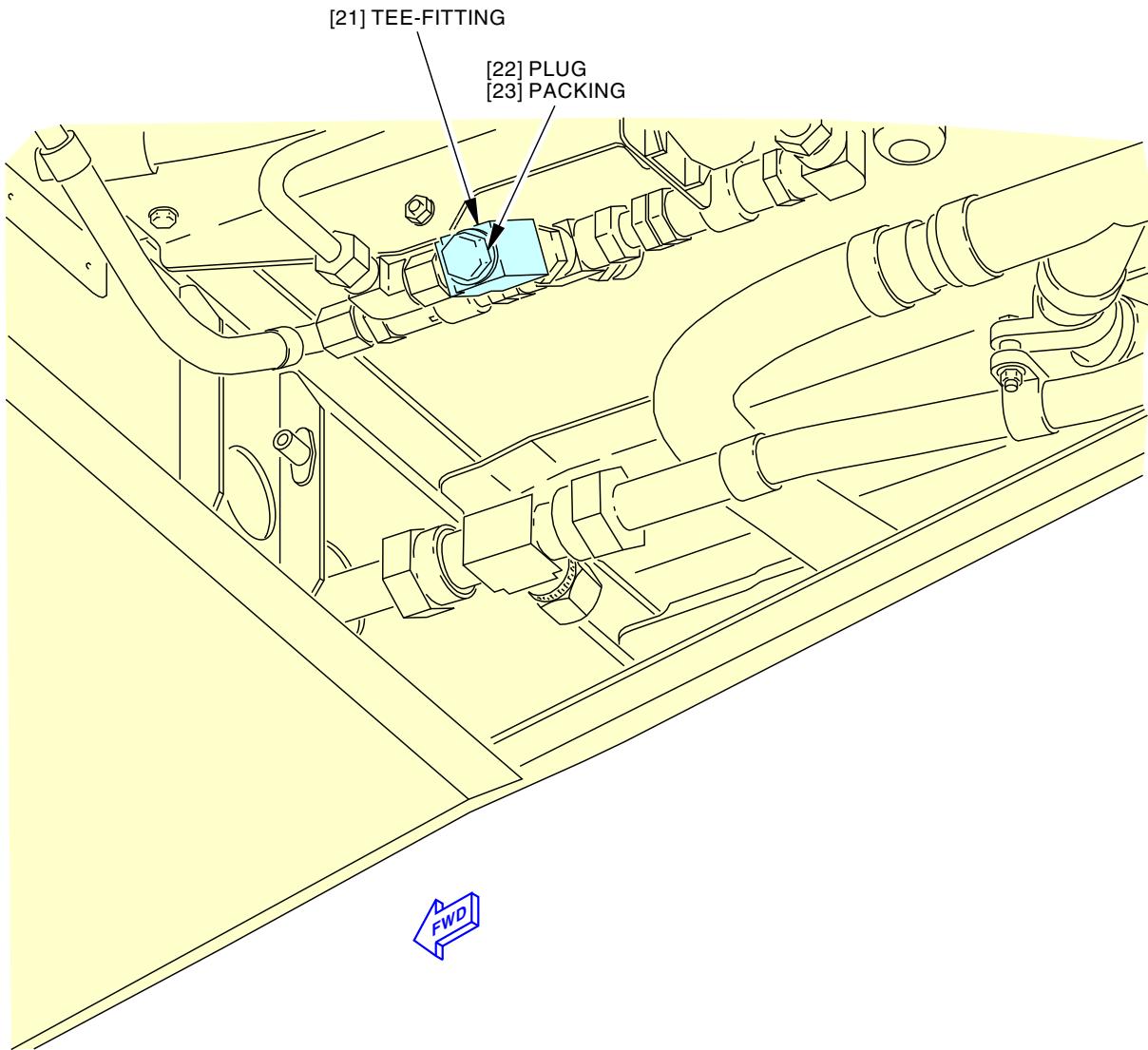
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POTABLE WATER LINE CAP

B

G20444 S0006578876_V2

Water Pressure Cut-Out Switch Operational Test
Figure 202/38-42-07-990-804 (Sheet 2 of 2)

EFFECTIVITY
LOM ALL

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AIRCRAFT MAINTENANCE MANUAL

PRESSURE REGULATOR - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
- (1) A removal of the pressure regulator
 - (2) An installation of the pressure regulator.

TASK 38-42-08-000-801

2. Pressure Regulator Removal

(Figure 401)

A. General

- (1) This task gives the instructions to remove the pressure regulator.

B. References

Reference	Title
25-52-09-000-801	Cargo Compartment Ceiling Liner - Removal (P/B 401)
38-42-00-800-801	Potable Water System - Deactivation (P/B 201)
38-42-10-000-801	Bleed Air Filter Assembly Removal (P/B 401)

C. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
142	Aft Cargo Compartment - Right

D. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
822	Aft Cargo Door

E. Prepare for the Removal

SUBTASK 38-42-08-010-004

- (1) To get access to the P91 panel, open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 38-42-08-860-001



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.

EFFECTIVITY
LOM ALL

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AIRCRAFT MAINTENANCE MANUAL

(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.

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

Power Distribution Panel Number 1, P91

Row Col Number Name

LOM 402, 404, 406

A 18 C00873 POT WATER COMPRESSOR

LOM 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-999

D 11 C00873 POT WATER COMPRESSOR

LOM ALL

SUBTASK 38-42-08-860-002

- (3) Do this task: Potable Water System - Deactivation, TASK 38-42-00-800-801.

SUBTASK 38-42-08-010-001

- (4) Open this access panel:

Number Name/Location

822 Aft Cargo Door

SUBTASK 38-42-08-010-002

- (5) To remove the ceiling liner forward of the potable water tank, do this task: Cargo Compartment Ceiling Liner - Removal, TASK 25-52-09-000-801.

F. Pressure Regulator Removal

SUBTASK 38-42-08-020-001

- (1) Do this task: Bleed Air Filter Assembly Removal, TASK 38-42-10-000-801.

SUBTASK 38-42-08-020-002

- (2) Loosen the nut [5] at the union [4].

(a) Remove the union [4].

(b) Discard the packings [3].

SUBTASK 38-42-08-020-003

- (3) Remove the bolts [1] and washers [2] that attach the pressure regulator [6] to the mounting bracket.

SUBTASK 38-42-08-020-006

- (4) Loosen the nut [10] at the union [8].

(a) Remove the union [8].

(b) Discard the packings [7].

SUBTASK 38-42-08-020-005

- (5) Disconnect the elbow [9] from the pneumatic check valve.

(a) Discard the packing [11].

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SUBTASK 38-42-08-020-007

- (6) Install the protective covers on the pressure regulator [6] and the air tubes.

———— END OF TASK ————

— EFFECTIVITY —
LOM ALL

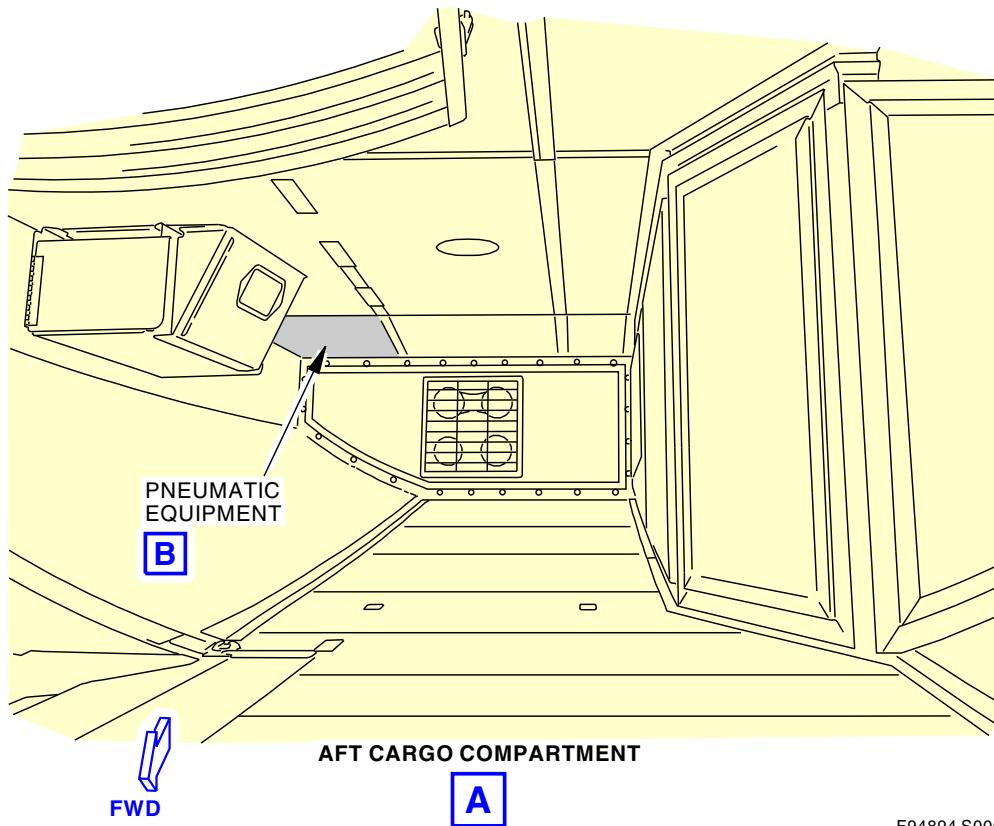
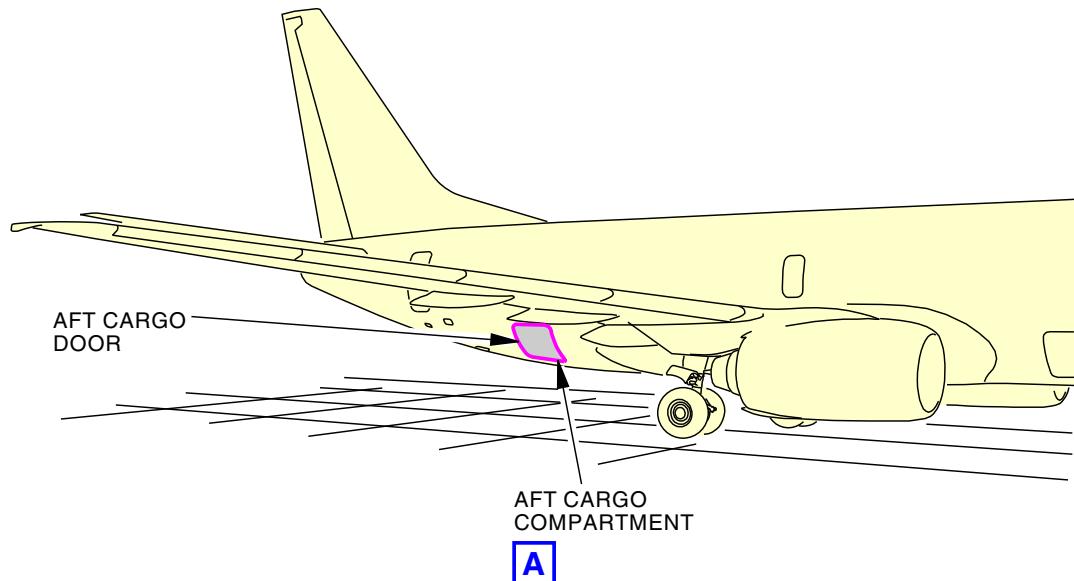
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Pressure Regulator Installation
Figure 401/38-42-08-990-802 (Sheet 1 of 2)

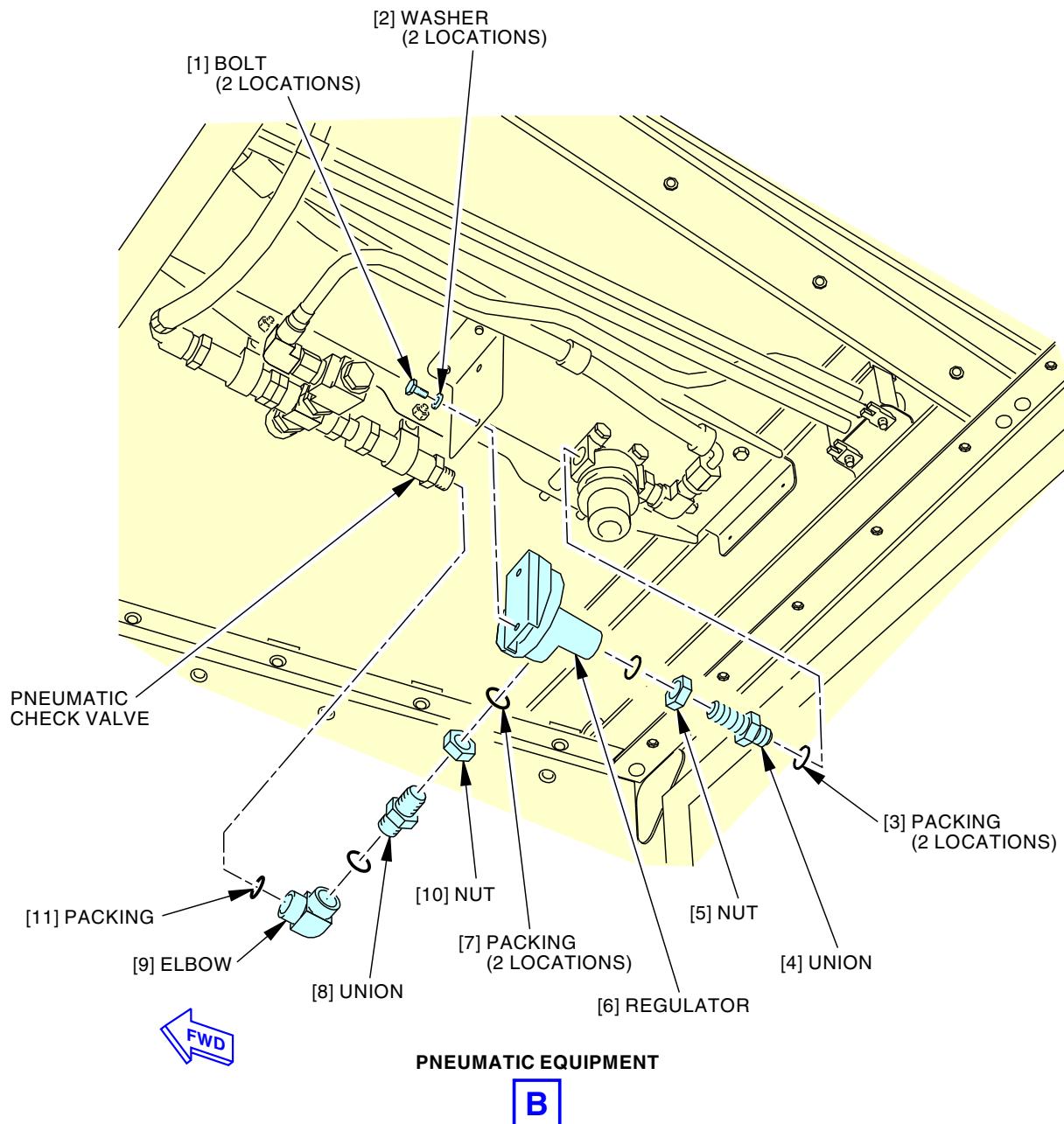
EFFECTIVITY
LOM ALL

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Pressure Regulator Installation
Figure 401/38-42-08-990-802 (Sheet 2 of 2)

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LOM ALL

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AIRCRAFT MAINTENANCE MANUAL

TASK 38-42-08-400-801

3. Pressure Regulator Installation

(Figure 401)

A. General

- (1) This task gives the instructions to install the pressure regulator.

B. References

Reference	Title
25-52-09-400-801	Cargo Compartment Ceiling Liner - Installation (P/B 401)
36-00-00-860-801	Supply Pressure to the Pneumatic System (Selection) (P/B 201)
36-00-00-860-806	Remove Pressure from the Pneumatic System (P/B 201)
38-42-00-800-802	Potable Water System - Activation (P/B 201)
38-42-00-800-803	Water Tank Pressurization System - Operational Test (P/B 501)
38-42-10-400-801	Bleed Air Filter Assembly Installation (P/B 401)

C. Consumable Materials

Reference	Description	Specification
D00189	Compound - Molykote 111 (Formerly Dow Corning 111, Valve Sealant and Lubricant)	
D00463	Grease - Food Processing Equipment	DOD-G-24650

D. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
3	Packing	38-42-08-01-170	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434
6	Pressure regulator	38-42-08-01-172	LOM 437-447, 450-999
7	Packing	38-42-08-01-185	LOM ALL
		38-42-08-01-170	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434
		38-42-08-01-172	LOM 437-447, 450-999
11	Packing	38-42-08-01-170	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434
		38-42-08-01-172	LOM 437-447, 450-999

E. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
142	Aft Cargo Compartment - Right

F. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
822	Aft Cargo Door

G. Pressure Regulator Installation

SUBTASK 38-42-08-020-009

- (1) Remove the protective covers from the pressure regulator [6] and air tubes.



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SUBTASK 38-42-08-640-001

- (2) Apply grease, D00463, or Molykote 111 Compound, D00189, to the new packings [3], new packings [7], new packing [11], and threads of the union [4] and union [8].

SUBTASK 38-42-08-420-001

- (3) Install the packings [3] on the union [4].
(a) Make sure that the nut [5] is in its position on the union [4].

SUBTASK 38-42-08-420-002

- (4) Install the packings [7] on the union [8].
(a) Make sure that the nut [10] is in its position on the union [8].

SUBTASK 38-42-08-420-009

- (5) Install the pressure regulator [6] on the union [8] and union [4].

SUBTASK 38-42-08-420-003

- (6) Connect the elbow [9] to the pneumatic check valve as follows:
(a) Install the packing [11] on the pneumatic check valve.
(b) Connect the elbow [9] to the pneumatic check valve.

SUBTASK 38-42-08-420-010

- (7) Connect the pressure regulator [6] and union [8] to the elbow [9].

SUBTASK 38-42-08-420-006

- (8) Install the bolts [1] and washers [2] that attach the pressure regulator [6] to the mounting bracket.

SUBTASK 38-42-08-420-007

- (9) Do this task: Bleed Air Filter Assembly Installation, TASK 38-42-10-400-801.

SUBTASK 38-42-08-420-008

- (10) Tighten the nut [5] on the union [4].

SUBTASK 38-42-08-420-011

- (11) Tighten the nut [10] on the union [8].

SUBTASK 38-42-08-860-003



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.

EFFECTIVITY
LOM ALL

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AIRCRAFT MAINTENANCE MANUAL

(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.

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

Power Distribution Panel Number 1, P91

Row Col Number Name

LOM 402, 404, 406

A 18 C00873 POT WATER COMPRESSOR

LOM 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-999

D 11 C00873 POT WATER COMPRESSOR

LOM ALL

SUBTASK 38-42-08-860-005

- (13) Do this task: Potable Water System - Activation, TASK 38-42-00-800-802.

SUBTASK 38-42-08-860-006

- (14) To pressurize the pneumatic system, do this task: Supply Pressure to the Pneumatic System (Selection), TASK 36-00-00-860-801.

SUBTASK 38-42-08-710-001

- (15) Make sure that the air compressor operates to pressurize the potable water tank.

SUBTASK 38-42-08-780-003

- (16) Make sure that the pressure relief valve on the air line to the water tank line is off.

SUBTASK 38-42-08-780-002

- (17) When the compressor is off, start the water at some lavatories or galleys and examine correct water pressure.

SUBTASK 38-42-08-710-002

- (18) If the water pressure is not correct or the system does not operate correctly, do this task: Water Tank Pressurization System - Operational Test, TASK 38-42-00-800-803.

SUBTASK 38-42-08-780-001

- (19) Make sure that there are no air leaks at the connections to the pressure regulator [6] or the piping connections.

H. Put the Airplane Back to Its Usual Condition

SUBTASK 38-42-08-860-007

- (1) To remove pressurization from the pneumatic system, do this task: Remove Pressure from the Pneumatic System, TASK 36-00-00-860-806.

SUBTASK 38-42-08-410-001



WARNING

SEAL THE CARGO COMPARTMENT WITH THE LINING. OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN YOU INSTALL THE LINING. IF YOU INSTALL THE LINING INCORRECTLY, THE SMOKE CAN GET INTO THE PASSENGER COMPARTMENT DURING A FIRE.

- (2) Do this task: Cargo Compartment Ceiling Liner - Installation, TASK 25-52-09-400-801.

EFFECTIVITY
LOM ALL

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SUBTASK 38-42-08-410-002

- (3) Close these access panels:

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

———— END OF TASK ————

EFFECTIVITY
LOM ALL

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AIRCRAFT MAINTENANCE MANUAL
CHECK VALVES - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
 - (1) A removal of the Air Compressor Supply Check Valve.
 - (2) An installation of the Air Compressor Supply Check Valve.
 - (3) A removal of the aircraft Pneumatic Supply Check Valve.
 - (4) An installation of the aircraft Pneumatic Supply Check Valve.
- B. The Air Compressor Supply Check Valve is between the air compressor and the common manifold assembly for the potable water tank pressurization air. The Air Compressor Supply Check Valve is referred to as the Compressor Check Valve in this procedure. The Compressor Check Valve connecting fittings must be removed before the Pneumatic Supply Check Valve can be removed.
- C. The Pneumatic Supply Check Valve is between the pressure regulator and the common manifold assembly for the potable water tank pressurization air. The Pneumatic Supply Check Valve is referred to as the Pneumatic Check Valve in this procedure.

TASK 38-42-09-020-801

2. Compressor Check Valve Removal

(Figure 401)

A. References

Reference	Title
25-52-09-000-801	Cargo Compartment Ceiling Liner - Removal (P/B 401)
38-42-00-800-801	Potable Water System - Deactivation (P/B 201)

B. Tools/Equipment

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

C. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
142	Aft Cargo Compartment - Right

D. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

E. Prepare for the Removal

SUBTASK 38-42-09-010-007

- (1) To get access to the P91 panel, open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

EFFECTIVITY
LOM ALL

38-42-09



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SUBTASK 38-42-09-860-001



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.

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

Power Distribution Panel Number 1, P91

Row Col Number Name

LOM 402, 404, 406

A 18 C00873 POT WATER COMPRESSOR

LOM 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-999

D 11 C00873 POT WATER COMPRESSOR

LOM ALL

SUBTASK 38-42-09-860-002



WARNING

MAKE SURE THAT YOU REMOVE PRESSURE FROM THE PNEUMATIC MANIFOLD. IF YOU DO NOT REMOVE PRESSURE, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (3) Do this task: Potable Water System - Deactivation, TASK 38-42-00-800-801.

SUBTASK 38-42-09-010-002

- (4) Remove the ceiling panels for access forward of the water tank, do this task: Cargo Compartment Ceiling Liner - Removal, TASK 25-52-09-000-801.

F. Check Valve Removal

SUBTASK 38-42-09-020-001

- (1) Disconnect the hose [6] from the air compressor to the compressor check valve [10].

SUBTASK 38-42-09-020-002

- (2) Loosen the nut [1], washers [2], spacer [3], screw [4], and clamp [5] on the compressor check valve [10].

SUBTASK 38-42-09-020-003

- (3) Disconnect and remove the compressor check valve [10] from the union [11].

(a) Discard the packing [12].

SUBTASK 38-42-09-430-022

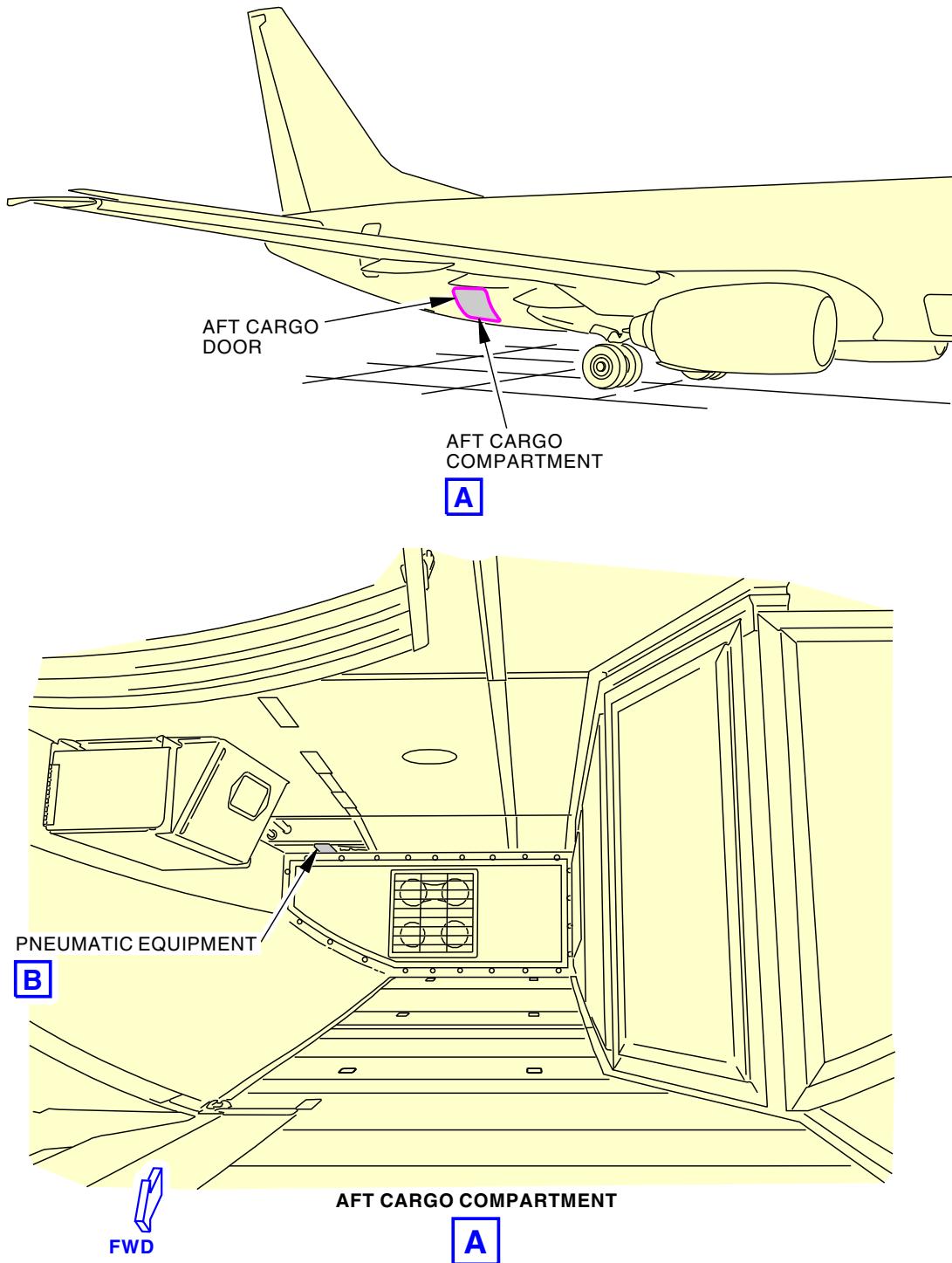
- (4) Install a Flareless Tube Cap, 1/2-20 Thread, STD-1130, or Flareless Tube Plug, 1/2-20 Thread, STD-1131, on all open hoses, tubes, and fittings.

— END OF TASK —

EFFECTIVITY
LOM ALL

38-42-09

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



G19035 S0006578888_V2

Check Valve Installation
Figure 401/38-42-09-990-802 (Sheet 1 of 2)

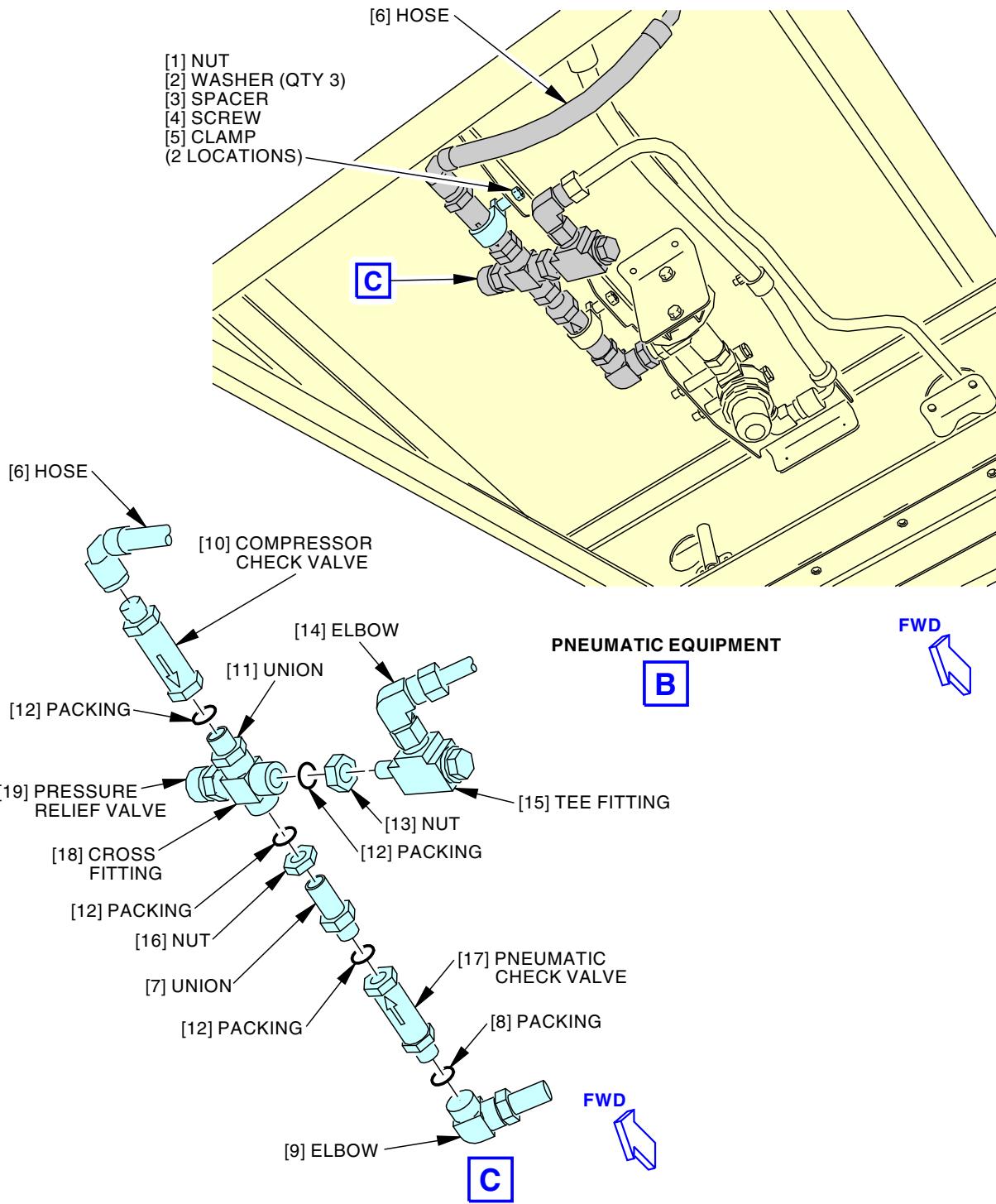
EFFECTIVITY
LOM ALL

38-42-09

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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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G19034 S0006578890_V3

Check Valve Installation
Figure 401/38-42-09-990-802 (Sheet 2 of 2)

EFFECTIVITY
LOM ALL

38-42-09



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TASK 38-42-09-400-802

3. Compressor Check Valve Installation

(Figure 401)

A. References

Reference	Title
25-52-09-400-801	Cargo Compartment Ceiling Liner - Installation (P/B 401)
36-00-00-860-801	Supply Pressure to the Pneumatic System (Selection) (P/B 201)
36-00-00-860-806	Remove Pressure from the Pneumatic System (P/B 201)
38-42-00-800-802	Potable Water System - Activation (P/B 201)

B. Consumable Materials

Reference	Description	Specification
D00189	Compound - Molykote 111 (Formerly Dow Corning 111, Valve Sealant and Lubricant)	
D00463	Grease - Food Processing Equipment	DOD-G-24650
G00018	Nitrogen - Gaseous, Pressurizing, 99.5 Percent Pure	A-A-59503 Type I Grade B, MIL-PRF-27401 Type I Grade A
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	AMS3819 Class 1 Grade A or B Form 1 (Supersede BMS15-5 CLA)
G00091	Compound - Oxygen System Leak Detection - Snoop Leak Detector	MIL-PRF-25567
G50321	Air - Clean, Dry	BAC5402 Table I

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
10	Compressor check valve	38-42-08-01-175	LOM ALL
12	Packing	38-42-08-01-170	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434
		38-42-08-01-172	LOM 437-447, 450-999

D. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
142	Aft Cargo Compartment - Right

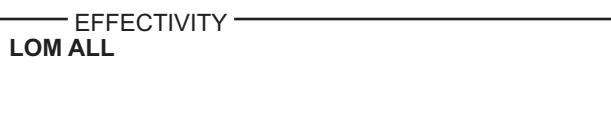
E. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
822	Aft Cargo Door

F. Compressor Check Valve Installation

SUBTASK 38-42-09-171-001

- (1) Clean the hose [6] and tube assembly, between the air compressor and compressor check valve [10], of any contamination.



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- (a) Use clean dry air, G50321, or nitrogen, G00018.

NOTE: To clean the hose and tube assembly, use 40 psig (3 kg/cm²) to 100 psig (7 kg/cm²) clean, dry shop air, or nitrogen, applied at the compressor check valve hose fitting for 1 to 2 minutes.

SUBTASK 38-42-09-640-001

- (2) Apply the grease, D00463, or Molykote 111 Compound, D00189, to the new packing [12], threads of the compressor check valve [10] and threads of the union [11].

SUBTASK 38-42-09-420-001

- (3) Install the packing [12] on the union [11].

SUBTASK 38-42-09-420-002

- (4) Install the compressor check valve [10] on the union [11].

NOTE: The flow arrow on the check valve must point to the union and cross fitting, as shown in the figure.

SUBTASK 38-42-09-420-003

- (5) Install the nut [1], washers [2], spacer [3], screw [4], and clamp [5] for the compressor check valve [10].

SUBTASK 38-42-09-420-004

- (6) Install the hose [6] on the compressor check valve [10].

G. Check Valve Installation Test

SUBTASK 38-42-09-860-003



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.

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

Power Distribution Panel Number 1, P91

Row Col Number Name

LOM 402, 404, 406

A 18 C00873 POT WATER COMPRESSOR

LOM 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-999

D 11 C00873 POT WATER COMPRESSOR

LOM ALL

SUBTASK 38-42-09-860-005

- (2) Do this task: Potable Water System - Activation, TASK 38-42-00-800-802.

EFFECTIVITY
LOM ALL

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SUBTASK 38-42-09-860-007

- (3) Pressurize the pneumatic system, do this task: Supply Pressure to the Pneumatic System (Selection), TASK 36-00-00-860-801.

SUBTASK 38-42-09-790-001

- (4) Make sure that there are no air leaks at the check valves or air connections.
- Apply the Snoop Leak Detector compound, G00091, to all the fittings and connections.
 - Look for bubbles to find any leaks.
 - If you find leaks, tighten the fittings and connections.
 - Remove the Snoop Leak Detector compound, G00091, with a clean cotton wiper, G00034, immediately after the check.
 - Make sure that the fittings and connections are dry.

H. Put the Airplane Back to Its Usual Condition

SUBTASK 38-42-09-860-006

- (1) Remove pressurization from the pneumatic system, do this task: Remove Pressure from the Pneumatic System, TASK 36-00-00-860-806.

SUBTASK 38-42-09-410-001



WARNING

SEAL THE CARGO COMPARTMENT WITH THE LINING. OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN YOU INSTALL THE LINING. IF YOU INSTALL THE LINING INCORRECTLY, THE SMOKE CAN GET INTO THE PASSENGER COMPARTMENT DURING A FIRE.

- (2) Do this task: Cargo Compartment Ceiling Liner - Installation, TASK 25-52-09-400-801.

SUBTASK 38-42-09-410-002

- (3) Close this access panel:

<u>Number</u>	<u>Name/Location</u>
822	Aft Cargo Door

SUBTASK 38-42-09-410-007

- (4) Close this access panel:

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

— END OF TASK —

TASK 38-42-09-020-802

4. Pneumatic Supply Check Valve Removal

(Figure 401)

A. References

Reference	Title
25-52-09-000-801	Cargo Compartment Ceiling Liner - Removal (P/B 401)
38-42-00-800-801	Portable Water System - Deactivation (P/B 201)

B. Tools/Equipment

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



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C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
17	Pneumatic check valve	38-42-08-01-175	LOM ALL

D. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
142	Aft Cargo Compartment - Right

E. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
822	Aft Cargo Door

F. Prepare for the Removal

SUBTASK 38-42-09-010-008

- (1) To get access to the P91, open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 38-42-09-862-001



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.

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

Power Distribution Panel Number 1, P91

Row Col Number Name

LOM 402, 404, 406

A 18 C00873 POT WATER COMPRESSOR

LOM 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-999

D 11 C00873 POT WATER COMPRESSOR

LOM ALL

SUBTASK 38-42-09-864-001



WARNING

MAKE SURE THAT YOU REMOVE PRESSURE FROM THE PNEUMATIC MANIFOLD. IF YOU DO NOT REMOVE PRESSURE, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (3) Do this task: Potable Water System - Deactivation, TASK 38-42-00-800-801.

EFFECTIVITY
LOM ALL

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SUBTASK 38-42-09-010-004

- (4) Open this access panel:

<u>Number</u>	<u>Name/Location</u>
822	Aft Cargo Door

SUBTASK 38-42-09-010-006

- (5) Remove the ceiling panels for access forward of the water tank, do this task: Cargo Compartment Ceiling Liner - Removal, TASK 25-52-09-000-801.

G. Pneumatic Supply Check Valve Removal (Method I)

SUBTASK 38-42-09-030-006

- (1) Disconnect the hose [6] from the air compressor to the compressor check valve [10].

SUBTASK 38-42-09-030-007

- (2) Remove the nut [1], washers [2], spacer [3], screw [4], and clamp [5] on the compressor check valve [10].

SUBTASK 38-42-09-030-008

- (3) Disconnect the elbow [14] from the tee fitting [15].

SUBTASK 38-42-09-030-009

- (4) If it is necessary, loosen the nut [13] and remove the tee fitting [15], for clearance to remove the cross fitting [18].

- (a) Discard the tee fitting packing [12], if you removed the tee fitting [15].

SUBTASK 38-42-09-030-010

- (5) Loosen the nut [16], and remove the compressor check valve [10], cross fitting [18], union [11], and pressure relief valve [19] as an assembly.

SUBTASK 38-42-09-030-012

- (6) Loosen the nut [1], washers [2], spacer [3], screw [4], and clamp [5] on the pneumatic check valve [17].

SUBTASK 38-42-09-020-007

- (7) Remove the pneumatic check valve [17] and union [7] from the elbow [9].

- (a) Discard the packing [8].

SUBTASK 38-42-09-030-011

- (8) Hold the pneumatic check valve [17] with a wrench, and remove the union [7] from the valve.

- (a) Discard the packing [12].

- (b) Keep the union [7] and nut [16] for use on reinstallation of the pneumatic check valve [17].

SUBTASK 38-42-09-430-014

- (9) Install a Flareless Tube Cap, 1/2-20 Thread, STD-1130, or Flareless Tube Plug, 1/2-20 Thread, STD-1131, on all open hoses, tubes, and fittings.

H. Pneumatic Supply Check Valve Removal (Method II).

NOTE: You could find it faster to remove the check valves, pressure relief valve and fittings as one assembly. Then remove the pneumatic supply check valve from the assembly.

SUBTASK 38-42-09-030-014

- (1) Disconnect the hose [6] from the compressor check valve [10].

SUBTASK 38-42-09-030-015

- (2) Disconnect the elbow [14] from the tee fitting [15].

EFFECTIVITY
LOM ALL

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SUBTASK 38-42-09-030-016

- (3) Disconnect the elbow [9] from the pneumatic check valve [17].
 - (a) Discard the packing [8].

SUBTASK 38-42-09-030-017

- (4) Remove the nut [1], washers [2], spacer [3], screw [4], and clamp [5] on the pneumatic check valve [17] and compressor check valve [10].

SUBTASK 38-42-09-020-008

- (5) Remove the compressor check valve [10], pneumatic check valve [17], pressure relief valve [19], fittings, and unions as one assembly.

SUBTASK 38-42-09-020-009

- (6) Hold the union [7] with a wrench, and remove the pneumatic check valve [17].
 - (a) Discard the packing [12].

SUBTASK 38-42-09-430-015

- (7) Install a Flareless Tube Cap, 1/2-20 Thread, STD-1130, or Flareless Tube Plug, 1/2-20 Thread, STD-1131, on all open hoses, tubes, and fittings.

— END OF TASK —

TASK 38-42-09-400-803

5. Pneumatic Supply Check Valve - Installation

(Figure 401)

A. References

Reference	Title
25-52-09-400-801	Cargo Compartment Ceiling Liner - Installation (P/B 401)
36-00-00-860-801	Supply Pressure to the Pneumatic System (Selection) (P/B 201)
36-00-00-860-806	Remove Pressure from the Pneumatic System (P/B 201)
38-42-00-800-802	Portable Water System - Activation (P/B 201)

B. Tools/Equipment

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

C. Consumable Materials

Reference	Description	Specification
D00189	Compound - Molykote 111 (Formerly Dow Corning 111, Valve Sealant and Lubricant)	
D00463	Grease - Food Processing Equipment	DOD-G-24650
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)
G00091	Compound - Oxygen System Leak Detection - Snoop Leak Detector	MIL-PRF-25567

EFFECTIVITY
LOM ALL

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(Continued)

Reference	Description	Specification
G50321	Air - Clean, Dry	BAC5402 Table I

D. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
8	Packing	38-42-08-01-170	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434
		38-42-08-01-172	LOM 437-447, 450-999
		38-42-08-01-230	LOM ALL
		38-42-08-01-235	LOM ALL
12	Packing	38-42-08-01-170	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434
		38-42-08-01-172	LOM 437-447, 450-999
17	Pneumatic check valve	38-42-08-01-175	LOM ALL

E. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
142	Aft Cargo Compartment - Right

F. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
822	Aft Cargo Door

G. Pneumatic Supply Check Valve Installation (Method I)

NOTE: Use Method I to install the pneumatic check valve, if you used Method I to remove the pneumatic check valve.

SUBTASK 38-42-09-170-001

- (1) Clean the hose [6] and tube assembly, between the air compressor and compressor check valve [10], of any contamination.
 - (a) Use clean dry air, G50321, or nitrogen, G00018.

NOTE: To clean the hose and tube assembly, use 40 psig (3 kg/cm²) to 100 psig (7 kg/cm²) clean, dry shop air, or nitrogen, applied at the check valve hose fitting for 1 to 2 minutes.

SUBTASK 38-42-09-030-0018

- (2) Remove the Flareless Tube Cap, 1/2-20 Thread, STD-1130, or Flareless Tube Plug, 1/2-20 Thread, STD-1131, on all hoses, tubes, and fittings.

SUBTASK 38-42-09-640-002

- (3) Apply the grease, D00463, or Molykote 111 Compound, D00189, to the new packings [12], new packing [8], threads of the pneumatic check valve [17], compressor check valve [10], and unions and fittings.

SUBTASK 38-42-09-430-004

- (4) Install the packing [8] on the pneumatic check valve [17].

EFFECTIVITY
LOM ALL



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SUBTASK 38-42-09-420-010

- (5) Install the pneumatic check valve [17] on the elbow [9].

NOTE: The flow arrow on the check valve must point to the union and cross fitting, as shown in the figure.

SUBTASK 38-42-09-430-005

- (6) Install the nut [1], washers [2], spacer [3], screw [4], and clamp [5] for the pneumatic check valve [17].

SUBTASK 38-42-09-430-006

- (7) Position the nut [16] on the union [7] and install the packings [12] on the union [7].

SUBTASK 38-42-09-430-007

- (8) Install the union [7] on the pneumatic check valve [17].

SUBTASK 38-42-09-420-011

- (9) Install the assembled cross fitting [18], union [11], pressure relief valve [19], and compressor check valve [10] on the union [7].

- (a) Tighten the nut [16].

NOTE: The flow arrow on the check valve must point to the union and cross fitting, as shown in the figure.

SUBTASK 38-42-09-430-008

- (10) If the tee fitting [15] was removed for clearance, do these steps:

- (a) Position the nut [13], and install the packing [12] on the tee fitting [15].
(b) Install the tee fitting [15] on the cross fitting [18] and tighten the nut [13].

SUBTASK 38-42-09-430-009

- (11) Install the elbow [14] on the tee fitting [15].

SUBTASK 38-42-09-430-012

- (12) Install the nut [1], washers [2], spacer [3], screw [4], and clamp [5] for the compressor check valve [10].

SUBTASK 38-42-09-430-013

- (13) Connect the hose [6] to the compressor check valve [10].

H. Pneumatic Supply Check Valve Installation (Method II)

NOTE: Use the Method II, if you are installing the check valves, pressure relief valve, fittings, and unions, as one assembly. Use Method II installation, if you used Method II removal.

SUBTASK 38-42-09-170-002

- (1) Clean the hose [6] and tube assembly, between the air compressor and the compressor check valve [10], of any contamination.

- (a) Use clean dry air, G50321, or nitrogen, G00018.

NOTE: To clean the hose and tube assembly, use 40 psig (3 kg/cm²) to 100 psig (7 kg/cm²) clean, dry shop air, or nitrogen, applied at the check valve hose fitting for 1 to 2 minutes.

SUBTASK 38-42-09-030-019

- (2) Remove the Flareless Tube Cap, 1/2-20 Thread, STD-1130, or Flareless Tube Plug, 1/2-20 Thread, STD-1131, on all hoses, tubes, and fittings.

EFFECTIVITY
LOM ALL

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SUBTASK 38-42-09-640-003

- (3) Apply the grease, D00463, or Molykote 111 Compound, D00189, to the new packings [12], new packing [8], threads of the pneumatic check valve [17], compressor check valve [10], and the unions and fittings.

SUBTASK 38-42-09-430-016

- (4) Install the packing [12] on the union [7] and install the packing [8] on the pneumatic check valve [17].

SUBTASK 38-42-09-430-017

- (5) Hold the union [7] with a wrench, and install the pneumatic check valve [17] on the union [7].

NOTE: The flow arrow on the check valve must point to the union and cross fitting, as shown in the figure.

SUBTASK 38-42-09-420-012

- (6) Put the compressor check valve [10], pneumatic check valve [17], fittings, and unions, as one assembly, in the position.

SUBTASK 38-42-09-430-018

- (8) Install the elbow [9] on the pneumatic check valve [17].

SUBTASK 38-42-09-430-020

- (9) Install the hose [6] on the compressor check valve [10].

SUBTASK 38-42-09-430-021

- (10) Install the elbow [14] on the tee fitting [15].

I. Check Valve Installation Test

SUBTASK 38-42-09-865-001



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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
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LOM 402, 404, 406

A	18	C00873	POT WATER COMPRESSOR
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EFFECTIVITY
LOM ALL

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LOM 402, 404, 406 (Continued)

(Continued)

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
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LOM 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-999

D	11	C00873	POT WATER COMPRESSOR
---	----	--------	----------------------

LOM ALL

SUBTASK 38-42-09-863-001

- (2) Do this task: Potable Water System - Activation, TASK 38-42-00-800-802.

SUBTASK 38-42-09-863-002

- (3) Pressurize the pneumatic system, do this task: Supply Pressure to the Pneumatic System (Selection), TASK 36-00-00-860-801.

SUBTASK 38-42-09-790-002

- (4) Make sure that there are no air leaks at the check valves or air connections.

(a) Apply the Snoop Leak Detector compound, G00091, to all the fittings and connections.

1) Look for bubbles to find any leaks.

2) If you find leaks, tighten the fittings and connections.

(b) Remove the Snoop Leak Detector compound, G00091, with a clean cotton wiper, G00034, immediately after the check.

1) Make sure that the fittings and connections are dry.

J. Put the Airplane Back to Its Usual Condition

SUBTASK 38-42-09-860-008

- (1) Remove pressurization from the pneumatic system, do this task: Remove Pressure from the Pneumatic System, TASK 36-00-00-860-806.

SUBTASK 38-42-09-410-004



WARNING

SEAL THE CARGO COMPARTMENT WITH THE LINING. OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN YOU INSTALL THE LINING. IF YOU INSTALL THE LINING INCORRECTLY, THE SMOKE CAN GET INTO THE PASSENGER COMPARTMENT DURING A FIRE.

- (2) Do this task: Cargo Compartment Ceiling Liner - Installation, TASK 25-52-09-400-801.

SUBTASK 38-42-09-410-006

- (3) Close this access panel:

<u>Number</u>	<u>Name/Location</u>
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822	Aft Cargo Door
-----	----------------

SUBTASK 38-42-09-410-008

- (4) Close this access panel:

<u>Number</u>	<u>Name/Location</u>
---------------	----------------------

117A	Electronic Equipment Access Door
------	----------------------------------

— END OF TASK —

EFFECTIVITY
LOM ALL

38-42-09

ECCN 9E991 BOEING PROPRIETARY - See title page for details



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AIRCRAFT MAINTENANCE MANUAL

BLEED AIR FILTER - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
- (1) A removal of the bleed air filter assembly
 - (2) An installation of the bleed air filter assembly
 - (3) A replacement of the bleed air filter element.

TASK 38-42-10-000-801

2. Bleed Air Filter Assembly Removal

(Figure 401)

A. References

Reference	Title
25-52-09-000-801	Cargo Compartment Ceiling Liner - Removal (P/B 401)
38-42-00-800-801	Potable Water System - Deactivation (P/B 201)

B. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
142	Aft Cargo Compartment - Right

C. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
822	Aft Cargo Door

D. Prepare for the Removal

SUBTASK 38-42-10-010-007

- (1) To get access to the P91 panel, open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 38-42-10-860-001



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.

EFFECTIVITY
LOM ALL

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(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.

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

Power Distribution Panel Number 1, P91

Row Col Number Name

LOM 402, 404, 406

A 18 C00873 POT WATER COMPRESSOR

LOM 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-999

D 11 C00873 POT WATER COMPRESSOR

LOM ALL

SUBTASK 38-42-10-860-002

- (3) Do this task: Potable Water System - Deactivation, TASK 38-42-00-800-801.

SUBTASK 38-42-10-010-001

- (4) Open this access panel:

Number Name/Location

822 Aft Cargo Door

SUBTASK 38-42-10-010-002

- (5) Remove the ceiling panel adjacent to the potable water tank, do this task: Cargo Compartment Ceiling Liner - Removal, TASK 25-52-09-000-801.

E. Bleed Air Filter Assembly Removal

SUBTASK 38-42-10-020-001

- (1) Loosen the B-nut at the elbow [5].

SUBTASK 38-42-10-020-002

- (2) Remove the elbow [5], nut [6], and packing [7] from the bleed air filter assembly [2].

- (a) Discard the packing [7].

SUBTASK 38-42-10-020-003

- (3) Remove the bolts [3], washers [4], spacers [8], washers [9], washers [1], and nuts [13].

SUBTASK 38-42-10-020-005

- (4) Remove the bleed air filter assembly [2] from the pressure regulator as follows:

- (a) Remove the bleed air filter assembly [2] with the union [11] and nut [12] from the pressure regulator.

- (b) Disconnect the bleed air filter assembly [2] from the union [11].

- (c) Remove and discard the packings [10].

SUBTASK 38-42-10-020-006

- (5) Put a cap on the end of the air tube to keep contamination out of the potable water system.

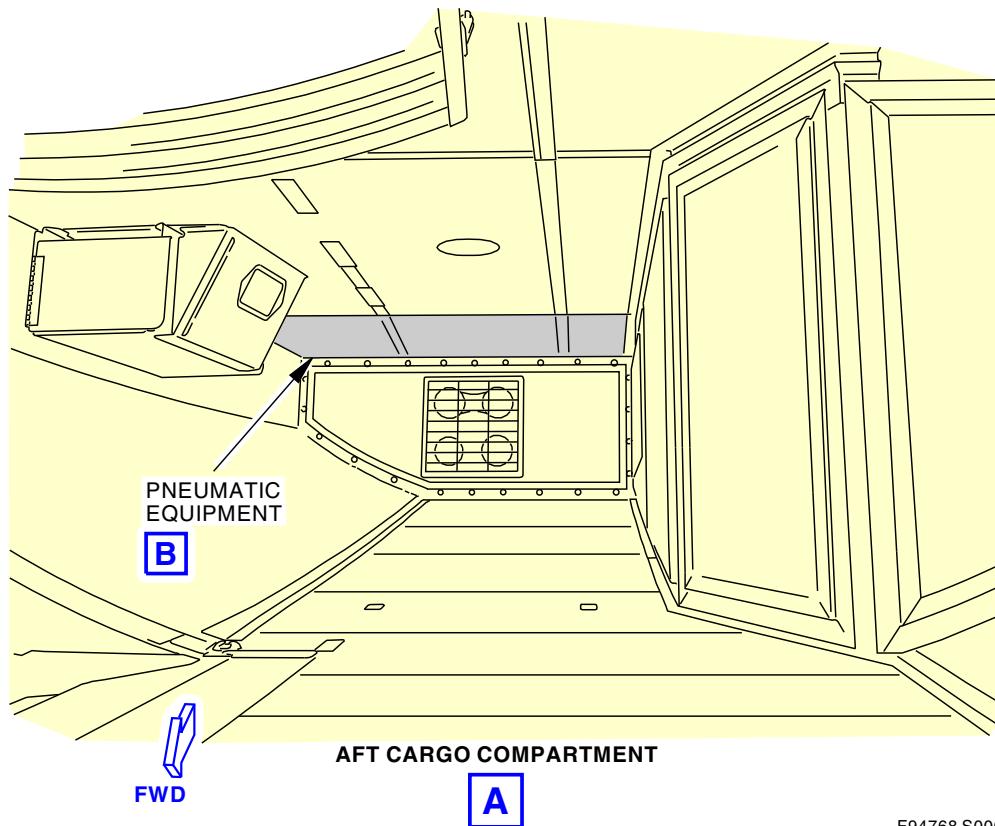
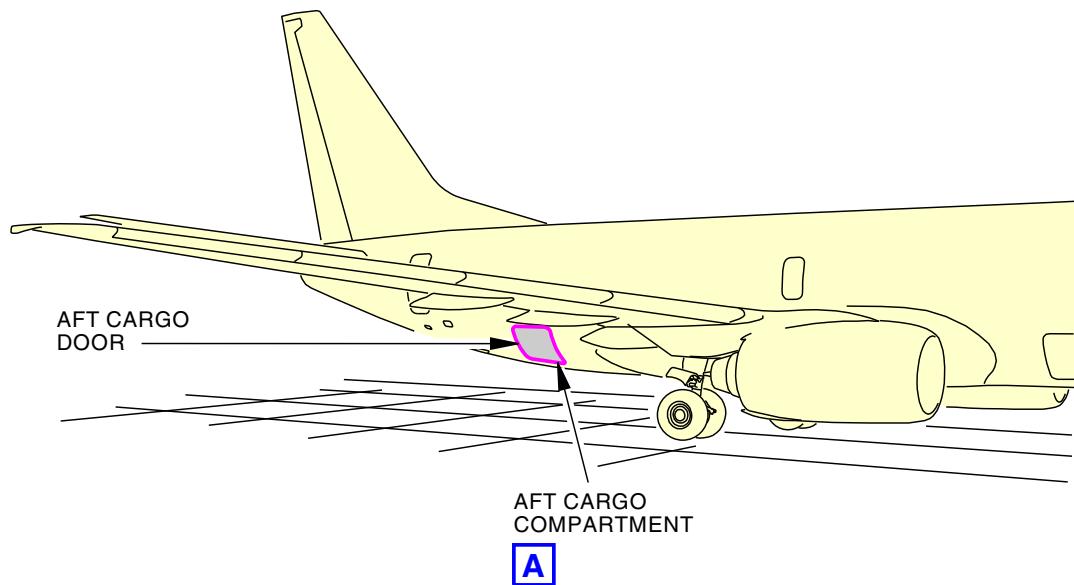
———— END OF TASK ————

— EFFECTIVITY —
LOM ALL

38-42-10



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AIRCRAFT MAINTENANCE MANUAL



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Bleed Air Filter Installation
Figure 401/38-42-10-990-802 (Sheet 1 of 3)

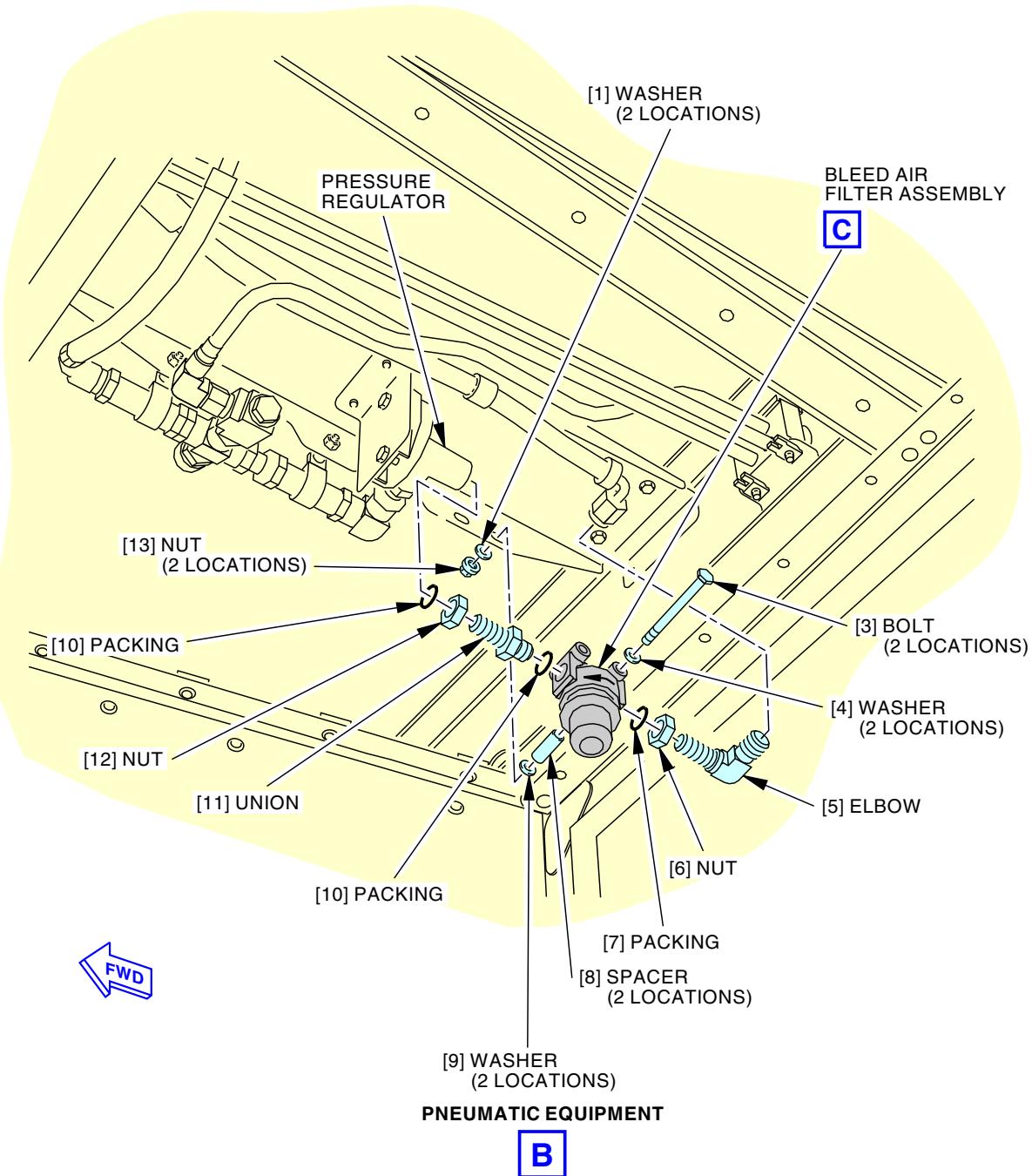
EFFECTIVITY
LOM ALL

38-42-10

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F94770 S0006578898_V4

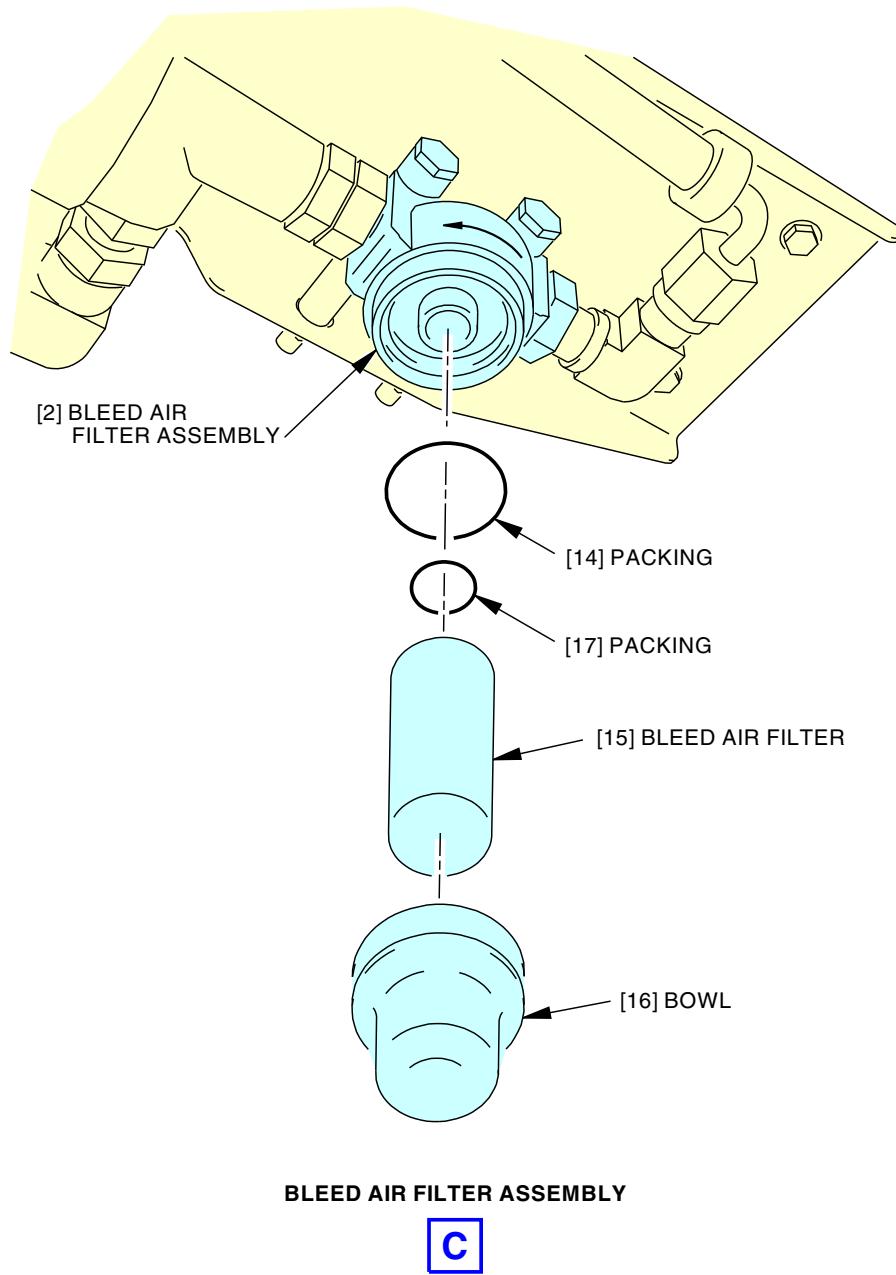
Bleed Air Filter Installation
Figure 401/38-42-10-990-802 (Sheet 2 of 3)

EFFECTIVITY
 LOM ALL

38-42-10



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



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Bleed Air Filter Installation
Figure 401/38-42-10-990-802 (Sheet 3 of 3)

EFFECTIVITY
LOM ALL

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AIRCRAFT MAINTENANCE MANUAL

TASK 38-42-10-400-801

3. Bleed Air Filter Assembly Installation

(Figure 401)

A. References

Reference	Title
25-52-09-400-801	Cargo Compartment Ceiling Liner - Installation (P/B 401)
36-00-00-860-801	Supply Pressure to the Pneumatic System (Selection) (P/B 201)
36-00-00-860-806	Remove Pressure from the Pneumatic System (P/B 201)
38-42-00-800-802	Potable Water System - Activation (P/B 201)

B. Consumable Materials

Reference	Description	Specification
D00189	Compound - Molykote 111 (Formerly Dow Corning 111, Valve Sealant and Lubricant)	
D00463	Grease - Food Processing Equipment	DOD-G-24650

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
2	Bleed air filter assembly	38-42-08-01-215	LOM ALL
7	Packing	38-42-08-01-170	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434
		38-42-08-01-172	LOM 437-447, 450-999
10	Packing	38-42-08-01-170	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434
		38-42-08-01-172	LOM 437-447, 450-999

D. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
142	Aft Cargo Compartment - Right

E. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door
822	Aft Cargo Door

F. Bleed Air Filter Assembly Installation

SUBTASK 38-42-10-420-001

- (1) Remove the caps from the air tube.

SUBTASK 38-42-10-640-001

- (2) Apply the grease, D00463, or Molykote 111 Compound, D00189, to the new packing [7], new packings [10], and threads of the bleed air filter assembly [2].

SUBTASK 38-42-10-420-002

- (3) Install the union [11], nut [12], and packing [10] on the bleed air filter assembly [2].

SUBTASK 38-42-10-420-003

- (4) Install the bleed air filter assembly [2] and packing [10] on the pressure regulator.

EFFECTIVITY
LOM ALL

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- (a) Make sure that the flow arrow is in the forward direction.

SUBTASK 38-42-10-420-004

- (5) Install the bolts [3], washers [4], spacers [8], washers [9], washers [1], and nuts [13].

SUBTASK 38-42-10-420-005

- (6) Install the elbow [5], nut [6], and packing [7] on the bleed air filter assembly [2].

SUBTASK 38-42-10-420-006

- (7) Connect the B-nut to the elbow [5].

G. Bleed Air Filter Assembly Installation Test

SUBTASK 38-42-10-860-003



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.

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
------------	------------	---------------	-------------

LOM 402, 404, 406

A	18	C00873	POT WATER COMPRESSOR
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LOM 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-999

D	11	C00873	POT WATER COMPRESSOR
---	----	--------	----------------------

LOM ALL

SUBTASK 38-42-10-410-007

- (2) Close this access panel:

<u>Number</u>	<u>Name/Location</u>
---------------	----------------------

117A	Electronic Equipment Access Door
------	----------------------------------

SUBTASK 38-42-10-860-005

- (3) Do this task: Potable Water System - Activation, TASK 38-42-00-800-802.

SUBTASK 38-42-10-860-011

- (4) Pressurize the pneumatic system, do this task: Supply Pressure to the Pneumatic System (Selection), TASK 36-00-00-860-801.

SUBTASK 38-42-10-790-001

- (5) Make sure that there are no air leaks at the air filter.

EFFECTIVITY
LOM ALL

38-42-10

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H. Put the Airplane Back to Its Usual Condition

SUBTASK 38-42-10-860-012

- (1) Remove pressurization from the pneumatic system, do this task: Remove Pressure from the Pneumatic System, TASK 36-00-00-860-806.

SUBTASK 38-42-10-410-001



WARNING

SEAL THE CARGO COMPARTMENT WITH THE LINING. OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN YOU INSTALL THE LINING. IF YOU INSTALL THE LINING INCORRECTLY, THE SMOKE CAN GO INTO THE PASSENGER COMPARTMENT DURING A FIRE. THIS CAN CAUSE INJURY TO PERSONNEL.

- (2) Do this task: Cargo Compartment Ceiling Liner - Installation, TASK 25-52-09-400-801.

SUBTASK 38-42-10-410-002

- (3) Close this access panel:

<u>Number</u>	<u>Name/Location</u>
822	Aft Cargo Door

————— END OF TASK ————

TASK 38-42-10-960-801

4. **Bleed Air Filter Element Replacement**

(Figure 401)

NOTE: This procedure is a scheduled maintenance task.

A. References

Reference	Title
20-10-44-400-801	Lockwire, Cotter Pins, and Lockrings - Installation (P/B 401)
25-52-09-000-801	Cargo Compartment Ceiling Liner - Removal (P/B 401)
25-52-09-400-801	Cargo Compartment Ceiling Liner - Installation (P/B 401)
36-00-00-860-801	Supply Pressure to the Pneumatic System (Selection) (P/B 201)
36-00-00-860-806	Remove Pressure from the Pneumatic System (P/B 201)
38-42-00-800-801	Potable Water System - Deactivation (P/B 201)
38-42-00-800-802	Potable Water System - Activation (P/B 201)

B. Consumable Materials

Reference	Description	Specification
D50232	Compound - Release, Molykote 7 (Formerly Dow Corning 7)	
G51934	Wire - Safety, Steel, Corrosion Resistant	SAE AS5685

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
14	Packing	38-42-08-01-230	LOM ALL
15	Bleed air filter	38-42-08-01-225	LOM ALL
17	Packing	38-42-08-01-235	LOM ALL

D. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left

EFFECTIVITY
LOM ALL

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(Continued)

Zone Area

142 Aft Cargo Compartment - Right

E. Access Panels

Number Name/Location

117A Electronic Equipment Access Door

822 Aft Cargo Door

F. Prepare for the Removal

SUBTASK 38-42-10-010-008

- (1) To get access to the P91 panel, open this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-42-10-860-006



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.

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

Power Distribution Panel Number 1, P91

Row Col Number Name

LOM 402, 404, 406

A 18 C00873 POT WATER COMPRESSOR

LOM 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-999

D 11 C00873 POT WATER COMPRESSOR

LOM ALL

SUBTASK 38-42-10-860-007

- (3) Do this task: Potable Water System - Deactivation, TASK 38-42-00-800-801.

SUBTASK 38-42-10-010-003

- (4) Open this access panel:

Number Name/Location

822 Aft Cargo Door

SUBTASK 38-42-10-010-004

- (5) Remove the ceiling panel adjacent to the potable water tank, do this task: Cargo Compartment Ceiling Liner - Removal, TASK 25-52-09-000-801.

EFFECTIVITY
LOM ALL

38-42-10

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G. Bleed Air Filter Element Replacement

SUBTASK 38-42-10-020-007

- (1) Remove the bowl [16] as follows:
 - (a) Remove the lockwire.
 - (b) Remove the bowl [16] from the bleed air filter assembly [2].
 - (c) Remove and discard the packing [14].

SUBTASK 38-42-10-020-008

- (2) Remove and discard the bleed air filter [15] and packing [17].

SUBTASK 38-42-10-420-007

- (3) Install the new bleed air filter [15] and new packing [17].

NOTE: There is a packing in the filter element assembly that must be in its position before installation.

SUBTASK 38-42-10-640-002

- (4) Apply a Molykote 7 release compound, D50232, on a new packing [14].

SUBTASK 38-42-10-420-008

- (5) Install the packing [14] on the bowl [16] and install the bowl [16] in its position.

- (a) Tighten the bowl [16] to 75 +10 / -0 in-lb (8.5 +1.1 / -0.0 N·m).

SUBTASK 38-42-10-420-009

- (6) Install safety wire, G51934, do this task: Lockwire, Cotter Pins, and Lockrings - Installation, TASK 20-10-44-400-801.

H. Bleed Air Filter Element Installation Test

SUBTASK 38-42-10-860-008



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.

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

Power Distribution Panel Number 1, P91

Row Col Number Name

LOM 402, 404, 406

A 18 C00873 POT WATER COMPRESSOR

LOM 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-999

D 11 C00873 POT WATER COMPRESSOR

LOM ALL

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SUBTASK 38-42-10-410-008

- (2) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

SUBTASK 38-42-10-860-010

- (3) Do this task: Potable Water System - Activation, TASK 38-42-00-800-802.

SUBTASK 38-42-10-860-013

- (4) Pressurize the pneumatic system, do this task: Supply Pressure to the Pneumatic System (Selection), TASK 36-00-00-860-801.

SUBTASK 38-42-10-790-002

- (5) Make sure that there are no air leaks at the air filter.

I. Put the Airplane Back to Its Usual Condition

SUBTASK 38-42-10-860-014

- (1) Do this task: Remove Pressure from the Pneumatic System, TASK 36-00-00-860-806.

SUBTASK 38-42-10-410-003



WARNING

SEAL THE CARGO COMPARTMENT WITH THE LINING. OBEY THE INSTRUCTIONS IN THE SPECIFIED PROCEDURE WHEN YOU INSTALL THE LINING. IF YOU INSTALL THE LINING INCORRECTLY, THE SMOKE CAN GO INTO THE PASSENGER COMPARTMENT DURING A FIRE. THIS CAN CAUSE INJURY TO PERSONNEL.

- (2) Do this task: Cargo Compartment Ceiling Liner - Installation, TASK 25-52-09-400-801.

SUBTASK 38-42-10-410-004

- (3) Close this access panel:

Number Name/Location

822 Aft Cargo Door

———— END OF TASK ————

EFFECTIVITY
LOM ALL

38-42-10

