

**CHAPTER**

**33**

**LIGHTS**





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

**CHAPTER 33**  
**LIGHTS**

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33-EFFECTIVE PAGES			33-11-00 (cont)			33-14-00 (cont)		
1 thru 11	Feb 15/2025		207	Oct 15/2015		206	Oct 15/2021	
12	BLANK		208	Jun 15/2015		207	Oct 15/2021	
33-CONTENTS			209	Jun 15/2015		208	Oct 15/2021	
1	Oct 15/2024		210	Jun 15/2015		209	Feb 15/2023	
2	Jun 15/2023		211	Jun 15/2015		210	Feb 15/2023	
3	Feb 15/2023		212	Oct 15/2015		211	Feb 15/2023	
4	Oct 15/2024		213	Feb 15/2021		212	Feb 15/2023	
5	Oct 15/2024		214	Feb 15/2021		213	Feb 15/2023	
6	Oct 15/2024		215	Feb 15/2021		214	Oct 15/2024	
7	Oct 15/2024		216	Oct 15/2015		215	Jun 15/2023	
8	Oct 15/2024		217	Jun 15/2023		216	Feb 15/2023	
9	Oct 15/2024		218	Jun 15/2023		217	Oct 15/2024	
O 10	Feb 15/2025		219	Jun 15/2023		218	Oct 15/2023	
11	Oct 15/2024		220	Jun 15/2023		219	Feb 15/2023	
12	Oct 15/2024		221	Jun 15/2023		220	Feb 15/2023	
O 13	Feb 15/2025		222	Oct 15/2024		221	Feb 15/2023	
O 14	Feb 15/2025		223	Oct 15/2024		222	Feb 15/2023	
O 15	Feb 15/2025		224	Jun 15/2023		223	Feb 15/2023	
16	Oct 15/2024		225	Oct 15/2024		224	Feb 15/2023	
O 17	Feb 15/2025		226	Jun 15/2023		225	Feb 15/2023	
18	Oct 15/2024		227	Jun 15/2023		226	Feb 15/2023	
19	Oct 15/2024		228	Jun 15/2023		227	Feb 15/2023	
O 20	Feb 15/2025		229	Jun 15/2023		228	Feb 15/2023	
21	Oct 15/2024		230	Jun 15/2023		229	Oct 15/2024	
22	BLANK		231	Jun 15/2023		230	Jun 15/2023	
33-00-00			232	Jun 15/2023		231	Jun 15/2023	
901	Oct 15/2024		233	Jun 15/2023		232	Feb 15/2023	
902	Oct 15/2020		234	Jun 15/2023		233	Feb 15/2023	
903	Oct 15/2024		235	Jun 15/2023		234	Feb 15/2023	
904	BLANK		236	Jun 15/2023		235	Feb 15/2023	
33-11-00			33-14-00			236	Feb 15/2023	
201	Feb 15/2020		201	Feb 15/2015		237	Feb 15/2023	
202	Feb 15/2024		202	Jun 15/2017		238	BLANK	
203	Feb 15/2024		203	Oct 15/2022		33-17-00		
204	Feb 15/2024		204	Oct 15/2021		201	Feb 15/2015	
205	Jun 15/2016		205	Oct 15/2021		202	Feb 15/2015	

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**33-EFFECTIVE PAGES**



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33-17-00 (cont)			33-18-00 (cont)			33-21-00		
203	Oct 15/2015		224	Oct 15/2015		201	Oct 15/2024	
204	Oct 15/2015		225	Oct 15/2022		202	Oct 15/2024	
205	Oct 15/2015		226	Feb 15/2024		203	Oct 15/2024	
206	Oct 15/2017		227	Feb 15/2024		204	Oct 15/2024	
207	Feb 15/2019		228	Oct 15/2015		205	Oct 15/2024	
208	Oct 15/2015		33-20-00 Config 1			206	Oct 15/2024	
R 209	Feb 15/2025		501	Oct 15/2024		207	Oct 15/2024	
R 210	Feb 15/2025		502	Oct 15/2024		208	Oct 15/2024	
211	Oct 15/2015		503	Oct 15/2024		209	Oct 15/2024	
212	Oct 15/2024		504	Oct 15/2024		210	Oct 15/2024	
213	Oct 15/2024		505	Oct 15/2024		211	Oct 15/2024	
214	Oct 15/2015		506	Oct 15/2024		212	Jun 15/2023	
33-18-00			507	Oct 15/2024		213	Oct 15/2024	
201	Feb 15/2015		508	Oct 15/2024		214	Oct 15/2024	
202	Feb 15/2015		509	Oct 15/2024		215	Oct 15/2024	
203	Oct 15/2015		510	Oct 15/2024		216	Oct 15/2024	
204	Feb 15/2015		511	Oct 15/2024		217	Oct 15/2024	
205	Jun 15/2015		512	Oct 15/2024		218	Oct 15/2024	
206	Oct 15/2015		513	Oct 15/2024		219	Oct 15/2024	
207	Jun 15/2016		514	Oct 15/2024		220	Oct 15/2024	
208	Jun 15/2015		515	Oct 15/2020		221	Oct 15/2024	
209	Jun 15/2015		516	Oct 15/2024		222	Oct 15/2024	
210	Oct 15/2017		517	Oct 15/2024		223	Oct 15/2024	
211	Oct 15/2017		518	Oct 15/2024		224	Oct 15/2024	
212	Feb 15/2017		519	Oct 15/2024		225	Oct 15/2024	
213	Oct 15/2015		520	Oct 15/2024		226	Oct 15/2024	
214	Oct 15/2015		521	Oct 15/2024		227	Oct 15/2024	
215	Oct 15/2021		522	Oct 15/2024		228	Oct 15/2024	
216	Oct 15/2021		523	Oct 15/2024		229	Oct 15/2024	
217	Oct 15/2021		524	Oct 15/2024		230	Oct 15/2024	
R 218	Feb 15/2025		525	Oct 15/2024		231	Oct 15/2024	
219	Oct 15/2021		526	Oct 15/2024		232	Oct 15/2024	
220	Oct 15/2015		527	Oct 15/2024		233	Oct 15/2024	
221	Oct 15/2015		528	Oct 15/2024		234	Oct 15/2024	
222	Jun 15/2015		529	Oct 15/2024		235	Oct 15/2024	
223	Jun 15/2015		530	BLANK		236	Oct 15/2024	

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33-21-00 (cont)			33-22-00 (cont)			33-22-00 (cont)		
237	Oct 15/2024		230	Oct 15/2024		R 266	Feb 15/2025	
238	Oct 15/2024		231	Oct 15/2024		267	Oct 15/2024	
239	Oct 15/2024		232	Oct 15/2024		268	Oct 15/2024	
240	Oct 15/2024		233	Oct 15/2024		R 269	Feb 15/2025	
241	Oct 15/2024		234	Oct 15/2024		270	Jun 15/2024	
242	Oct 15/2024		235	Oct 15/2024		33-22-00		
33-22-00			236	Oct 15/2024		601	Oct 15/2024	
201	Oct 15/2024		237	Oct 15/2024		602	Oct 15/2024	
202	Oct 15/2024		238	Oct 15/2024		603	Oct 15/2024	
203	Oct 15/2024		239	Oct 15/2024		604	BLANK	
204	Oct 15/2024		240	Oct 15/2024		33-23-00		
205	Oct 15/2024		241	Oct 15/2024		201	Oct 15/2024	
206	Oct 15/2024		242	Oct 15/2024		202	Feb 15/2024	
207	Oct 15/2024		243	Oct 15/2024		203	Oct 15/2017	
208	Oct 15/2024		244	Oct 15/2024		204	Feb 15/2024	
209	Oct 15/2024		245	Oct 15/2024		205	Oct 15/2024	
210	Oct 15/2024		246	Oct 15/2024		206	Oct 15/2024	
211	Oct 15/2024		247	Oct 15/2024		207	Oct 15/2024	
212	Oct 15/2024		248	Oct 15/2024		208	Oct 15/2024	
213	Oct 15/2024		249	Oct 15/2024		209	Oct 15/2024	
214	Oct 15/2024		250	Oct 15/2024		210	Feb 15/2024	
215	Oct 15/2024		251	Oct 15/2024		211	Oct 15/2024	
216	Oct 15/2024		252	Oct 15/2024		212	Feb 15/2024	
217	Oct 15/2024		253	Oct 15/2024		213	Oct 15/2024	
218	Oct 15/2024		254	Oct 15/2024		214	Oct 15/2024	
219	Oct 15/2024		255	Oct 15/2024		215	Oct 15/2024	
220	Oct 15/2024		256	Oct 15/2024		216	Oct 15/2024	
221	Oct 15/2024		257	Oct 15/2024		217	Oct 15/2024	
222	Oct 15/2024		258	Oct 15/2024		218	Oct 15/2024	
223	Oct 15/2024		259	Oct 15/2024		219	Oct 15/2024	
224	Oct 15/2024		260	Oct 15/2024		220	Feb 15/2024	
225	Oct 15/2024		R 261	Feb 15/2025		221	Feb 15/2020	
226	Oct 15/2024		262	Oct 15/2024		222	Oct 15/2024	
227	Oct 15/2024		263	Oct 15/2024		223	Oct 15/2024	
228	Oct 15/2024		R 264	Feb 15/2025		224	Oct 15/2024	
229	Oct 15/2024		R 265	Feb 15/2025		225	Oct 15/2024	
						226	Oct 15/2024	

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33-23-00 (cont)			33-25-00 (cont)			33-26-03 (cont)		
227	Oct 15/2024		228	Oct 15/2020		206	Oct 15/2024	
228	Oct 15/2024		33-26-01			207	Oct 15/2024	
229	Oct 15/2024		201	Feb 15/2024		208	Oct 15/2024	
230	Oct 15/2024		202	Feb 15/2024		209	Oct 15/2024	
231	Oct 15/2024		203	Oct 15/2015		210	Oct 15/2024	
232	Oct 15/2024		204	Feb 15/2024		211	Oct 15/2024	
233	Oct 15/2024		205	Oct 15/2024		212	Oct 15/2024	
234	Oct 15/2024		206	Oct 15/2024		213	Oct 15/2024	
33-25-00			207	Oct 15/2024		214	Oct 15/2024	
201	Oct 15/2024		208	Oct 15/2022		215	Oct 15/2024	
202	Oct 15/2024		209	Oct 15/2022		216	Oct 15/2024	
203	Oct 15/2015		210	Oct 15/2024		217	Oct 15/2024	
204	Oct 15/2020		211	Feb 15/2024		218	Oct 15/2024	
205	Oct 15/2024		212	Oct 15/2024		219	Oct 15/2024	
206	Oct 15/2024		213	Oct 15/2024		220	Oct 15/2024	
207	Oct 15/2024		214	Feb 15/2024		221	Oct 15/2024	
208	Oct 15/2024		215	Feb 15/2024		222	Oct 15/2024	
209	Oct 15/2024		216	BLANK		223	Oct 15/2024	
210	Oct 15/2024		33-26-02			224	Oct 15/2024	
211	Oct 15/2024		201	Feb 15/2024		225	Oct 15/2024	
212	Oct 15/2024	R	202	Feb 15/2025		226	Oct 15/2024	
213	Oct 15/2024	O	203	Feb 15/2025		227	Oct 15/2024	
214	Oct 15/2024	O	204	Feb 15/2025		228	Oct 15/2024	
215	Oct 15/2024		205	Feb 15/2024		229	Oct 15/2024	
216	Oct 15/2024		206	Feb 15/2024		230	Oct 15/2024	
217	Oct 15/2024		207	Oct 15/2024		231	Oct 15/2024	
218	Oct 15/2024		208	Feb 15/2024		232	Oct 15/2024	
219	Oct 15/2024		209	Feb 15/2024		233	Oct 15/2024	
220	Oct 15/2024		210	Feb 15/2024		234	Oct 15/2024	
221	Oct 15/2024		211	Feb 15/2024		33-26-04		
222	Oct 15/2024		212	Feb 15/2024		201	Feb 15/2024	
223	Oct 15/2024		33-26-03			202	Feb 15/2024	
224	Oct 15/2024		201	Oct 15/2024		203	Feb 15/2024	
225	Oct 15/2024		202	Oct 15/2015		204	Feb 15/2024	
226	Oct 15/2024		203	Oct 15/2024		205	Feb 15/2024	
227	Oct 15/2024		204	Oct 15/2024		206	Feb 15/2024	
			205	Oct 15/2024				

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33-26-04			33-29-00 (cont)			33-33-00		
501	Jun 15/2018		218	Oct 15/2024		201	Jun 15/2024	
502	Jun 15/2018		219	Oct 15/2024		202	Jun 15/2024	
33-27-00			220	Oct 15/2024		203	Jun 15/2024	
201	Oct 15/2024		33-32-00			204	Jun 15/2024	
202	Jun 15/2023		201	Feb 15/2024		205	Jun 15/2024	
203	Jun 15/2024		202	Feb 15/2024		206	Jun 15/2024	
204	Oct 15/2015		203	Oct 15/2015		207	Jun 15/2024	
205	Oct 15/2024		204	Oct 15/2015		208	Oct 15/2024	
206	Oct 15/2024		205	Oct 15/2015		209	Jun 15/2024	
207	Oct 15/2024		206	Feb 15/2024		210	Oct 15/2024	
208	Oct 15/2024		207	Oct 15/2024		211	Jun 15/2024	
209	Oct 15/2024	R	208	Feb 15/2025		212	Jun 15/2024	
210	Oct 15/2024	O	209	Feb 15/2025		213	Jun 15/2024	
211	Oct 15/2021	O	210	Feb 15/2025		214	Jun 15/2024	
212	Oct 15/2024	O	211	Feb 15/2025		215	Oct 15/2024	
213	Jun 15/2024	O	212	Feb 15/2025		216	Jun 15/2024	
214	Jun 15/2024	O	213	Feb 15/2025		33-34-00		
215	Jun 15/2024	O	214	Feb 15/2025		201	Oct 15/2024	
216	BLANK	O	215	Feb 15/2025		202	Feb 15/2024	
33-29-00		O	216	Feb 15/2025		203	Feb 15/2024	
201	Oct 15/2024	O	217	Feb 15/2025		204	Feb 15/2024	
202	Oct 15/2024	O	218	Feb 15/2025		205	Feb 15/2024	
203	Oct 15/2024	O	219	Feb 15/2025		206	Feb 15/2024	
204	Oct 15/2024	O	220	Feb 15/2025		207	Oct 15/2024	
205	Oct 15/2024	O	221	Feb 15/2025		208	Oct 15/2024	
206	Oct 15/2024	O	222	Feb 15/2025		209	Oct 15/2024	
207	Oct 15/2024	O	223	Feb 15/2025		210	Oct 15/2024	
208	Oct 15/2024	O	224	Feb 15/2025		211	Oct 15/2024	
209	Oct 15/2024	O	225	Feb 15/2025		212	Feb 15/2024	
210	Oct 15/2024	O	226	Feb 15/2025		213	Feb 15/2024	
211	Oct 15/2024	O	227	Feb 15/2025		214	Feb 15/2024	
212	Oct 15/2024	O	228	Feb 15/2025		215	Feb 15/2024	
213	Oct 15/2024	O	229	Feb 15/2025		216	Feb 15/2024	
214	Oct 15/2024	O	230	Feb 15/2025		217	Feb 15/2024	
215	Oct 15/2024	A	231	Feb 15/2025		218	BLANK	
216	Oct 15/2024	A	232	BLANK		33-35-00		
217	Oct 15/2024	A				201	Feb 15/2024	

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33-35-00 (cont)			33-36-00 (cont)			33-42-01 (cont)		
202	Feb 15/2024		221	Oct 15/2024		206	Jun 15/2024	
203	Feb 15/2024		222	Oct 15/2024	R	207	Feb 15/2025	
204	Feb 15/2024		223	Oct 15/2024	O	208	Feb 15/2025	
205	Feb 15/2024		224	Oct 15/2024	O	209	Feb 15/2025	
206	Feb 15/2024		225	Jun 15/2024		210	Jun 15/2024	
207	Feb 15/2024		226	Jun 15/2024	R	211	Feb 15/2025	
208	Oct 15/2024		227	Jun 15/2024	R	212	Feb 15/2025	
209	Oct 15/2024		228	Jun 15/2024		213	Feb 15/2024	
210	Feb 15/2024		229	Jun 15/2024		214	Feb 15/2024	
211	Feb 15/2024		230	Oct 15/2024		215	Feb 15/2024	
212	Oct 15/2024		231	Jun 15/2024		216	Feb 15/2024	
213	Feb 15/2024		232	Jun 15/2024		217	Jun 15/2024	
214	Oct 15/2024		33-41-00			218	Feb 15/2024	
215	Feb 15/2024		201	Feb 15/2020		219	Oct 15/2024	
216	BLANK		202	Oct 15/2021		220	Oct 15/2024	
33-36-00			203	Oct 15/2021		221	Oct 15/2024	
201	Oct 15/2024		204	Oct 15/2021		222	Oct 15/2024	
202	Feb 15/2024		205	Oct 15/2021		223	Oct 15/2024	
203	Feb 15/2024		206	Oct 15/2021		224	Oct 15/2024	
204	Feb 15/2024		207	Oct 15/2021		225	Oct 15/2024	
205	Feb 15/2024		208	Oct 15/2021		226	Oct 15/2024	
206	Oct 15/2024		209	Oct 15/2021		227	Oct 15/2024	
207	Oct 15/2024		210	Jun 15/2024		228	Oct 15/2024	
208	Oct 15/2024		211	Jun 15/2022		229	Oct 15/2024	
209	Feb 15/2024		212	Oct 15/2021		230	Oct 15/2024	
210	Oct 15/2024		213	Oct 15/2021		231	Oct 15/2024	
211	Oct 15/2024		214	Oct 15/2021		232	Oct 15/2024	
212	Oct 15/2024		215	Oct 15/2021		233	Oct 15/2024	
213	Oct 15/2024		216	Oct 15/2021		234	Feb 15/2021	
214	Oct 15/2024		217	Oct 15/2021		235	Oct 15/2024	
215	Oct 15/2024		218	Oct 15/2021		236	Feb 15/2024	
216	Oct 15/2024		33-42-01			237	Jun 15/2024	
217	Oct 15/2024		201	Oct 15/2024		238	Oct 15/2020	
218	Oct 15/2024		202	Oct 15/2024		33-42-01		
219	Oct 15/2024		203	Oct 15/2015		501	Oct 15/2021	
220	Oct 15/2024		204	Oct 15/2024		502	Oct 15/2021	
			205	Feb 15/2024				

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33-42-02			33-43-10 (cont)			33-43-12 (cont)		
201	Oct 15/2024	O 214	Feb 15/2025			209	Oct 15/2022	
202	Oct 15/2024	O 215	Feb 15/2025			210	Oct 15/2024	
203	Oct 15/2024	O 216	Feb 15/2025			211	Oct 15/2024	
204	Oct 15/2024	O 217	Feb 15/2025			212	Oct 15/2023	
205	Oct 15/2024	O 218	Feb 15/2025			213	Oct 15/2023	
206	Oct 15/2024	O 219	Feb 15/2025			214	Oct 15/2023	
207	Oct 15/2024	O 220	Feb 15/2025			215	Jun 15/2023	
208	Oct 15/2024	A 221	Feb 15/2025			216	Oct 15/2023	
209	Oct 15/2024	A 222	BLANK			217	Oct 15/2023	
210	Oct 15/2024	33-43-11				218	BLANK	
211	Oct 15/2024	201	Jun 15/2023			33-44-00		
212	Oct 15/2024	R 202	Feb 15/2025			201	Feb 15/2015	
213	Oct 15/2024	R 203	Feb 15/2025			202	Oct 15/2021	
214	Oct 15/2024	R 204	Feb 15/2025			203	Oct 15/2021	
215	Oct 15/2024	R 205	Feb 15/2025			204	BLANK	
216	Oct 15/2024	R 206	Feb 15/2025			33-44-00		
217	Oct 15/2024	O 207	Feb 15/2025			501	Jun 15/2018	
218	Oct 15/2024	O 208	Feb 15/2025			502	Oct 15/2021	
219	Oct 15/2024	O 209	Feb 15/2025			503	Oct 15/2021	
220	Oct 15/2024	O 210	Feb 15/2025			504	BLANK	
221	Oct 15/2024	O 211	Feb 15/2025			33-44-01		
222	Oct 15/2024	O 212	Feb 15/2025			R 201	Feb 15/2025	
		O 213	Feb 15/2025			R 202	Feb 15/2025	
33-43-10		O 214	Feb 15/2025			R 203	Feb 15/2025	
201	Jun 15/2023	O 215	Feb 15/2025			R 204	Feb 15/2025	
202	Feb 15/2024	O 216	Feb 15/2025			R 205	Feb 15/2025	
R 203	Feb 15/2025	O 217	Feb 15/2025			R 206	Feb 15/2025	
R 204	Feb 15/2025	O 218	Feb 15/2025			R 207	Feb 15/2025	
O 205	Feb 15/2025	33-43-12				R 208	Feb 15/2025	
O 206	Feb 15/2025	201	Oct 15/2022			R 209	Feb 15/2025	
O 207	Feb 15/2025	202	Oct 15/2021			R 210	Feb 15/2025	
O 208	Feb 15/2025	203	Oct 15/2022			R 211	Feb 15/2025	
O 209	Feb 15/2025	204	Oct 15/2024			R 212	Feb 15/2025	
O 210	Feb 15/2025	205	Feb 15/2024			O 213	Feb 15/2025	
O 211	Feb 15/2025	206	Feb 15/2024			O 214	Feb 15/2025	
O 212	Feb 15/2025	207	Oct 15/2021			O 215	Feb 15/2025	
O 213	Feb 15/2025	208	Oct 15/2021			O 216	Feb 15/2025	

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33-44-01 (cont)			33-44-02 (cont)			33-44-13 (cont)		
O 217	Feb 15/2025		216	Oct 15/2024		207	Oct 15/2024	
R 218	Feb 15/2025		217	Oct 15/2023		208	Oct 15/2024	
R 219	Feb 15/2025		218	Oct 15/2023		209	Oct 15/2024	
R 220	Feb 15/2025		219	Oct 15/2023		210	Jun 15/2023	
O 221	Feb 15/2025		220	Oct 15/2023		211	Jun 15/2023	
O 222	Feb 15/2025		221	Oct 15/2024		212	Jun 15/2023	
R 223	Feb 15/2025		222	Oct 15/2023		213	Jun 15/2023	
R 224	Feb 15/2025		223	Oct 15/2023		214	Jun 15/2023	
O 225	Feb 15/2025		224	Oct 15/2023		215	Oct 15/2024	
R 226	Feb 15/2025		33-44-04			216	Oct 15/2024	
O 227	Feb 15/2025		R 201	Feb 15/2025		217	Oct 15/2024	
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O 229	Feb 15/2025		R 203	Feb 15/2025		219	Oct 15/2024	
O 230	Feb 15/2025		R 204	Feb 15/2025		220	Jun 15/2023	
O 231	Feb 15/2025		205	Oct 15/2024		221	Jun 15/2023	
O 232	Feb 15/2025		206	Oct 15/2024		222	Jun 15/2023	
O 233	Feb 15/2025		207	Oct 15/2024		223	Jun 15/2023	
O 234	Feb 15/2025		208	Oct 15/2024		224	Jun 15/2023	
D 235	Feb 15/2025		209	Oct 15/2024		225	Oct 15/2024	
D 236	BLANK		210	Oct 15/2024		226	Oct 15/2024	
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201	Oct 15/2024		R 212	Feb 15/2025		228	Oct 15/2024	
202	Oct 15/2024		R 213	Feb 15/2025		229	Oct 15/2023	
203	Oct 15/2015		214	Oct 15/2024		230	Oct 15/2023	
204	Oct 15/2015		215	Oct 15/2024		231	Oct 15/2023	
205	Jun 15/2018		R 216	Feb 15/2025		232	Oct 15/2023	
206	Jun 15/2018		R 217	Feb 15/2025		233	Oct 15/2023	
207	Oct 15/2023		R 218	Feb 15/2025		234	Oct 15/2023	
208	Oct 15/2023		219	Oct 15/2024		235	Oct 15/2023	
209	Oct 15/2023		220	Oct 15/2024		236	Oct 15/2023	
210	Oct 15/2023		33-44-13			237	Oct 15/2023	
211	Oct 15/2023		201	Oct 15/2024		238	Oct 15/2023	
212	Oct 15/2023		202	Oct 15/2024		239	Oct 15/2023	
213	Oct 15/2023		203	Oct 15/2024		240	Oct 15/2023	
214	Oct 15/2023		204	Oct 15/2024		241	Oct 15/2023	
215	Oct 15/2023		205	Oct 15/2024		242	Oct 15/2023	
			206	Oct 15/2024			BLANK	

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202	Oct 15/2024		217	Oct 15/2024		221	Feb 15/2023	
203	Oct 15/2024		218	Oct 15/2024		222	Feb 15/2023	
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208	Oct 15/2024		202	Oct 15/2024	33-51-00			
209	Oct 15/2024		203	Oct 15/2024		501	Oct 15/2024	
210	Oct 15/2024		204	Oct 15/2024		502	Jun 15/2024	
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212	Oct 15/2024		206	Oct 15/2024		504	Oct 15/2024	
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214	Oct 15/2024		201	Jun 15/2023		506	Jun 15/2024	
215	Oct 15/2024		202	Jun 15/2023		507	Oct 15/2023	
216	Oct 15/2024		203	Jun 15/2023		508	Oct 15/2023	
217	Oct 15/2024		204	BLANK		509	Oct 15/2024	
218	Oct 15/2024	33-49-00				510	Oct 15/2023	
219	Oct 15/2024		201	Jun 15/2020		511	Oct 15/2024	
220	BLANK		202	Apr 15/2022		512	Oct 15/2024	
33-45-02			203	Apr 15/2022		513	Oct 15/2024	
R 201	Feb 15/2025		204	Apr 15/2022		514	Jun 15/2024	
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204	Jun 15/2024		207	Oct 15/2021		202	Feb 15/2024	
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209	Oct 15/2024		212	Oct 15/2021		207	Oct 15/2015	
210	Oct 15/2024		213	Oct 15/2021		208	Oct 15/2015	
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R 213	Feb 15/2025		216	Oct 15/2021		211	Feb 15/2024	
R 214	Feb 15/2025		217	Oct 15/2021		212	Oct 15/2024	
215	Jun 15/2024		218	Jun 15/2023		213	Jun 15/2023	
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216	Jun 15/2023		202	Oct 15/2024		203	Oct 15/2024	
217	Jun 15/2023		203	Oct 15/2024		204	Oct 15/2024	
218	Jun 15/2023		204	Oct 15/2024		205	Oct 15/2024	
33-51-02			205	Oct 15/2024		206	Oct 15/2024	
201	Oct 15/2024		206	Oct 15/2024		207	Oct 15/2024	
202	Oct 15/2024		207	Oct 15/2024		208	Oct 15/2024	
203	Oct 15/2024		208	Oct 15/2024		209	Jun 15/2018	
204	Oct 15/2024		209	Oct 15/2024		210	Jun 15/2018	
205	Oct 15/2024		210	Oct 15/2024		33-51-14		
206	Oct 15/2024		211	Oct 15/2024		201	Feb 15/2021	
207	Oct 15/2024		212	BLANK		202	Oct 15/2015	
208	BLANK		33-51-06			203	Feb 15/2021	
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201	Oct 15/2024		202	Oct 15/2024		205	Oct 15/2015	
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205	Oct 15/2024		206	Oct 15/2024		202	Oct 15/2024	
206	Oct 15/2024		207	Oct 15/2024		203	Oct 15/2024	
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221	Oct 15/2024		R 222	Feb 15/2025		501	Oct 15/2024	
222	Oct 15/2024		33-51-11			502	Oct 15/2024	
			201	Oct 15/2024		503	Oct 15/2024	

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**LIGHTS - DDG MAINTENANCE PROCEDURES**

**1. General**

- A. This procedure has the maintenance tasks for the Master Minimum Equipment List (MMEL) maintenance requirements as shown in the Dispatch Deviations Guide (DDG). These tasks prepare the airplane for flight with certain systems/components inoperative.
- B. This procedure also has the tasks that put the airplane back to its usual condition.
- C. These are the tasks for the components in the lights system:
  - (1) MMEL 33-03-01A (DDG) Preparation - Passenger Information Signs (No Smoking/Fasten Seat Belt/ Return To Seat) Inoperative
  - (2) MMEL 33-03-01A (DDG) Restoration - Passenger Information Signs (No Smoking/Fasten Seat Belt/ Return To Seat) Inoperative

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461**

- (3) MMEL 33-08-01A (DDG) Preparation - Retractable Landing Light Motor Inoperative
- (4) MMEL 33-08-01A (DDG) Restoration - Retractable Landing Light Motor Inoperative.

**LOM ALL**

**TASK 33-00-00-840-801**

**2. MMEL 33-03-01A (DDG) Preparation - Passenger Information Signs (No Smoking/Fasten Seat Belt/ Return To Seat) Inoperative**

**A. General**

- (1) This procedure is for passenger seats, cabin attendant seats and lavatories where the No Smoking/Fasten Seat Belt/Return To Seat (NS/FSB/RTS) sign does not operate.
- (2) A sign is inoperative for a seat if a person with normal vision sits in the seat and cannot read the applicable NO SMOKING and FASTEN SEAT BELT sign. In tests that Boeing did for the FAA, a sign was "easy to read" if a person could see enough of the sign to identify it. For example, NO SMOK and FASTEN SEAT B were "easy to read."

**B. Location Zones**

Zone	Area
200	Upper Half of Fuselage

**C. Procedure**

**SUBTASK 33-00-00-040-002**

- (1) Do these steps at each passenger seat, cabin attendant seat or lavatory where the NS/FSB/RTS sign does not operate:

NOTE: The installation of placards, tape and rope must not prevent access for crewmembers to use or inspect seats or lavatories.

- (a) If necessary, attach tapes or ropes across the seat or lavatory door to show that the area is not available.
  - 1) Make sure that the tape or rope is a color that is easy to see against the color of the seat or lavatory door.
- (b) Put DO NOT OCCUPY placards at applicable locations to show that the seat or lavatory is not available.
  - 1) Make sure that the placards are easy to see.

———— END OF TASK ————

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**TASK 33-00-00-840-802**

**3. MMEL 33-03-01A (DDG) Restoration - Passenger Information Signs (No Smoking/Fasten Seat Belt/  
Return To Seat) Inoperative**

**A. General**

- (1) This procedure puts the airplane back to its usual condition after operation with No Smoking/Fasten Seat Belt/Return To Seat (NS/FSB/RTS) signs Inoperative.

**B. References**

<b>Reference</b>	<b>Title</b>
33-25-00-960-802	Information Sign - Light Assembly Replacement for a No-Smoking/Fasten-Seat-Belt Sign (P/B 201)
33-25-00-960-803	Information Sign - Light Assembly Replacement for a Return to Seat Sign (P/B 201)
33-25-00-960-804	Information Sign - Lamp Replacement (P/B 201)
33-25-00-960-807	Information Sign - Light Assembly Replacement for a No-Smoking/Fasten-Seat-Belt Sign (P/B 201)
33-25-00-960-808	Information Sign - Lamp Replacement for a No-Smoking/Fasten-Seat-Belt Sign (P/B 201)

**C. Location Zones**

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

**D. Procedure**

**SUBTASK 33-00-00-960-001**

- (1) Replace the lamp or light assembly in the NS/FSB/RTS information sign. These are the tasks:
- (a) Information Sign - Lamp Replacement, TASK 33-25-00-960-804 or Information Sign - Lamp Replacement for a No-Smoking/Fasten-Seat-Belt Sign, TASK 33-25-00-960-808.
  - (b) Information Sign - Light Assembly Replacement for a No-Smoking/Fasten-Seat-Belt Sign, TASK 33-25-00-960-802 or Information Sign - Light Assembly Replacement for a Return to Seat Sign, TASK 33-25-00-960-803 or Information Sign - Lamp Replacement, TASK 33-25-00-960-804 or Information Sign - Light Assembly Replacement for a No-Smoking/Fasten-Seat-Belt Sign, TASK 33-25-00-960-807

**SUBTASK 33-00-00-710-001**

- (2) Do a test of the signs Information Sign - Lamp Replacement, TASK 33-25-00-960-804 or Information Sign - Lamp Replacement for a No-Smoking/Fasten-Seat-Belt Sign, TASK 33-25-00-960-808 Information Sign - Light Assembly Replacement for a No-Smoking/Fasten-Seat-Belt Sign, TASK 33-25-00-960-802 or Information Sign - Light Assembly Replacement for a Return to Seat Sign, TASK 33-25-00-960-803 or Information Sign - Lamp Replacement, TASK 33-25-00-960-804 or Information Sign - Light Assembly Replacement for a No-Smoking/Fasten-Seat-Belt Sign, TASK 33-25-00-960-807.

**SUBTASK 33-00-00-000-001**

- (3) Remove the DO NOT OCCUPY placards, ropes and tapes from each passenger seat, cabin attendant seat or lavatory.

———— END OF TASK ————

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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461**

**TASK 33-00-00-840-803**

**4. MMEL 33-08-01-01A Preparation - Retractable Landing Light Motor Inoperative**

**A. General**

- (1) This procedure is for the landing lights where the retractable light extend/retract motor is inoperative.
- (2) Retractable light extend/retract motor may be inoperative provided the light illuminates normally and appropriate performance adjustments are applied.

**B. References**

<b>Reference</b>	<b>Title</b>
33-42-02-960-803	Retractable Landing Light - Light Adjustment (P/B 201)

**C. Location Zones**

<b>Zone</b>	<b>Area</b>
123	Forward Cargo Compartment - Left
124	Forward Cargo Compartment - Right

**D. Procedure**

SUBTASK 33-00-00-700-001

- (1) With the retractable light extend/retract motor inoperative, compare the light position with the operative light's position or use Retractable Landing Light - Light Adjustment, TASK 33-42-02-960-803 to determine if the light operates correctly.

————— END OF TASK ————

**TASK 33-00-00-840-804**

**5. MMEL 33-08-01-01A Restoration - Retractable Landing Light Motor Inoperative**

**A. General**

- (1) This procedure puts the airplane back to its usual condition after operation with retractable light extend/retract motor inoperative.

**B. References**

<b>Reference</b>	<b>Title</b>
33-42-02-960-802	Retractable Landing Light - Light Assembly Replacement (P/B 201)
33-42-02-960-805	Retractable Landing Light - Lens Assembly Replacement (P/B 201)

**C. Location Zones**

<b>Zone</b>	<b>Area</b>
123	Forward Cargo Compartment - Left
124	Forward Cargo Compartment - Right

**D. Procedure**

SUBTASK 33-00-00-960-002

- (1) Do these tasks: Retractable Landing Light - Light Assembly Replacement, TASK 33-42-02-960-802 and Retractable Landing Light - Lens Assembly Replacement, TASK 33-42-02-960-805.

————— END OF TASK ————

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INSTRUMENT AND PANEL LIGHTS - MAINTENANCE PRACTICES

**1. General**

- A. This procedure has these tasks:
- (1) Instrument and Panel Lights Deactivation
  - (2) Instrument and Panel Lights Activation
  - (3) Captain's Lighting Module - Module Replacement
  - (4) First Officer's Lighting Module - Module Replacement
  - (5) Stabilizer Trim Warning Light - Lamp Replacement
  - (6) Stabilizer Trim Warning Light - Cap Assembly Replacement
  - (7) Control Column Memory Device - Lamp Replacement
  - (8) Master Warning And Caution System Annunciator - Lamp Replacement
- NOTE: A spare lamp box is on the right sidewall that is forward of the first officers seat.
- (9) Master Warning And Caution System Annunciator - Light Assembly Replacement
  - (10) Master Warning And Caution Light Switch - Switch Replacement
  - (11) Master Warning And Caution Light Switch - Lamp Replacement
  - (12) Control Column Memory Device - Removal
  - (13) Control Column Memory Device - Installation

**LOM 465-999**

- (14) Flight Number Reminder Indicator - Replacement

**LOM ALL**

- (15) Control Stand Lighting Control Panel Replacement.

**TASK 33-11-00-040-801**

**2. Instrument and Panel Lights - Deactivation**

**A. General**

- (1) This procedure removes electrical power to the Instrument and Panel Lights.

**B. Location Zones**

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

**C. Procedure**

SUBTASK 33-11-00-860-037

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

**CAPT Electrical System Panel, P18-1**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
C	2	C00849	AFCS STABILIZER TRIM

**CAPT Electrical System Panel, P18-3**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
A	6	C00148	ANTI-ICE & RAIN ENG 1 & WING CONT

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**CAPT Electrical System Panel, P18-3**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	6	C00149	ANTI-ICE & RAIN ENGINE 2 CONTROL

**F/O Electrical System Panel, P6-2**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	21	C00396	FIRE PROT DETECTION MA WRN & CONT
B	9	C00440	FLIGHT CONTROL AUTO SPEED BRAKE

**F/O Electrical System Panel, P6-3**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	1	C00736	MISC CLOCK DISPLAY
B	5	C00540	FUEL SPAR VALVE IND
B	7	C00361	FUEL CROSS FEED VALVE
B	9	C00331	PANEL & INSTR 28V PRI CAPT & CTR
B	10	C00335	PANEL & INSTR 28V PRI F/O
B	12	C00132	MASTER CAUTION ANNUNCIATOR BUS 1
B	13	C00131	MASTER CAUTION ANNUNCIATOR BAT
C	10	C00284	PANEL & INSTR ELEX PANEL
C	13	C01277	MASTER CAUTION ANNUNCIATOR CONT 3
D	8	C00701	EMER PANEL LTG
D	9	C00323	OVERHEAD 28V PRI
D	11	C00133	INDICATOR MASTER DIM DIM/TST CONT
D	12	C00310	INDICATOR MASTER DIM BAT
D	13	C00311	INDICATOR MASTER DIM BUS 1
D	14	C00312	INDICATOR MASTER DIM BUS 2
E	4	C01396	ENGINE FUEL ENGINE 2 HPSOV IND
E	6	C01395	ENGINE FUEL ENGINE 1 HPSOV IND
E	11	C00313	INDICATOR MASTER DIM SECT 1
E	12	C00314	INDICATOR MASTER DIM SECT 2
E	13	C00315	INDICATOR MASTER DIM SECT 3
E	14	C00316	INDICATOR MASTER DIM SECT 4
F	11	C00317	INDICATOR MASTER DIM SECT 5
F	12	C00318	INDICATOR MASTER DIM SECT 6
F	13	C01179	INDICATOR MASTER DIM SECT 7
F	14	C01180	INDICATOR MASTER DIM SECT 8

**D. Instrument and Panel Lights - Tryout**

NOTE: This tryout is to make sure the Instrument and Panel Lights are in a zero energy state.

SUBTASK 33-11-00-700-002

- (1) On the captain's instrument panel, P1:
  - (a) Turn the PANEL control clockwise to the full BRIGHT position.
  - (b) Set the switch for the master dim and test lights to TEST.
- (2) Make sure that these panel, column, and instrument lights do not come on:
  - (a) Captain's Instrument Panel, P1
  - (b) Center Instrument Panel, P2

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- (c) AFT and FWD Overhead Panel, P5
  - (d) Glareshield Panel, P7
  - (e) AFT and FWD Electronics Panels, P8 and P9
  - (f) Captain's Auxiliary Panel, P21
  - (g) Captain's Control Column
- (3) Turn the PANEL control counter clockwise to the OFF position.

SUBTASK 33-11-00-700-003

- (4) On the first officer's instrument panel P3, turn the PANEL control clockwise to the full BRIGHT position.
- (5) Make sure that these panel, column, and instrument lights do not come on:
  - (a) First Officer's Instrument Panel, P3
  - (b) First Officer's Auxiliary Panel, P23
  - (c) First Officer's Control Column
- (6) Turn the PANEL control counter clockwise to the OFF position.
- (7) On the captain's instrument panel P1, set the switch for the master dim and test lights to DIM.

———— END OF TASK ————

**TASK 33-11-00-440-801**

**3. Instrument and Panel Lights - Activation**

**A. General**

- (1) This procedure adds electrical power to the Instrument and Panel Lights.

**B. Location Zones**

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

**C. Procedure**

SUBTASK 33-11-00-860-038

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

**CAPT Electrical System Panel, P18-1**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	2	C00849	AFCS STABILIZER TRIM

**CAPT Electrical System Panel, P18-3**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	6	C00148	ANTI-ICE & RAIN ENG 1 & WING CONT
B	6	C00149	ANTI-ICE & RAIN ENGINE 2 CONTROL

**F/O Electrical System Panel, P6-2**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	21	C00396	FIRE PROT DETECTION MA WRN & CONT
B	9	C00440	FLIGHT CONTROL AUTO SPEED BRAKE

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**F/O Electrical System Panel, P6-3**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	1	C00736	MISC CLOCK DISPLAY
B	5	C00540	FUEL SPAR VALVE IND
B	7	C00361	FUEL CROSS FEED VALVE
B	9	C00331	PANEL & INSTR 28V PRI CAPT & CTR
B	10	C00335	PANEL & INSTR 28V PRI F/O
B	12	C00132	MASTER CAUTION ANNUNCIATOR BUS 1
B	13	C00131	MASTER CAUTION ANNUNCIATOR BAT
C	10	C00284	PANEL & INSTR ELEX PANEL
C	13	C01277	MASTER CAUTION ANNUNCIATOR CONT 3
D	8	C00701	EMER PANEL LTG
D	9	C00323	OVERHEAD 28V PRI
D	11	C00133	INDICATOR MASTER DIM DIM/TST CONT
D	12	C00310	INDICATOR MASTER DIM BAT
D	13	C00311	INDICATOR MASTER DIM BUS 1
D	14	C00312	INDICATOR MASTER DIM BUS 2
E	4	C01396	ENGINE FUEL ENGINE 2 HPSOV IND
E	6	C01395	ENGINE FUEL ENGINE 1 HPSOV IND
E	11	C00313	INDICATOR MASTER DIM SECT 1
E	12	C00314	INDICATOR MASTER DIM SECT 2
E	13	C00315	INDICATOR MASTER DIM SECT 3
E	14	C00316	INDICATOR MASTER DIM SECT 4
F	11	C00317	INDICATOR MASTER DIM SECT 5
F	12	C00318	INDICATOR MASTER DIM SECT 6
F	13	C01179	INDICATOR MASTER DIM SECT 7
F	14	C01180	INDICATOR MASTER DIM SECT 8

— END OF TASK —

**TASK 33-11-00-960-801**

**4. Captain's Lighting Module - Module Replacement**

(Figure 201)

**A. General**

- (1) The captain's lighting module is located near the rudder pedal adjustment crank below the captain's instrument panel (P1).

**B. References**

<b>Reference</b>	<b>Title</b>
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)

**C. Tools/Equipment**

<b>Reference</b>	<b>Description</b>
STD-1176	Cover - Windshield Blackout Screen

**D. Location Zones**

<b>Zone</b>	<b>Area</b>
211	Flight Compartment - Left

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**E. Procedure**

SUBTASK 33-11-00-860-001

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

**F/O Electrical System Panel, P6-3**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
------------	------------	---------------	-------------

B	9	C00331	PANEL & INSTR 28V PRI CAPT & CTR
---	---	--------	----------------------------------

- (2) Open the Captain's Lighting Module, P41
- (a) 41C1 5.7V SEC MCP PANEL LIGHTING
  - (b) 41C2 28V PRIM CAPT PANEL LIGHTING
  - (c) 41C3 5V SEC CAPT PANEL LIGHTING
  - (d) 41C4 5V SEC CAPT PANEL LIGHTING
  - (e) 41C5 28V PRIM CENTER PANEL LIGHTING
  - (f) 41C6 5V SEC CENTER PANEL LIGHTING
  - (g) 41C7 5V SEC CENTER PANEL LIGHTING

SUBTASK 33-11-00-960-001

- (3) Do these steps to replace the lighting module [2]:

- (a) Loosen the fasteners [3].
- (b) Pull the lighting module [2] away from the rudder pedals enough to disconnect the electrical connectors [1].
- (c) Disconnect the electrical connectors [1].
- (d) Tag the electrical connectors [1] for the installation.
- (e) Remove the lighting module [2].
- (f) Connect the electrical connectors [1] to the replacement lighting module [2].
- (g) Install the replacement lighting module [2].
  - 1) Align the pins on the back of the lighting module with the holes in the bracket below the rudder pedal adjustment crank.
- (h) Tighten the fasteners [3].

SUBTASK 33-11-00-860-002

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

SUBTASK 33-11-00-860-003

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

**F/O Electrical System Panel, P6-3**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
------------	------------	---------------	-------------

B	9	C00331	PANEL & INSTR 28V PRI CAPT & CTR
---	---	--------	----------------------------------

- (6) Close the Captain's Lighting Module, P41
- (a) 41C1 5.7V SEC MCP PANEL LIGHTING
  - (b) 41C2 28V PRIM CAPT PANEL LIGHTING
  - (c) 41C3 5V SEC CAPT PANEL LIGHTING
  - (d) 41C4 5V SEC CAPT PANEL LIGHTING
  - (e) 41C5 28V PRIM CENTER PANEL LIGHTING

EFFECTIVITY  
LOM ALL

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- (f) 41C6 5V SEC CENTER PANEL LIGHTING
- (g) 41C7 5V SEC CENTER PANEL LIGHTING

SUBTASK 33-11-00-940-001

- (7) If it is necessary, put a windshield cover, STD-1176 on the windshield.

NOTE: During the day, the changes in light intensity are not easy to see.

SUBTASK 33-11-00-710-001

- (8) Do these steps to test the replacement lighting module [2]:

- (a) On the captain's instrument panel P1, turn the PANEL control clockwise to the full BRIGHT position.
- (b) Make sure that these panels and column come on and are of the same intensity:
  - 1) Captain's Instrument Panel, P1
  - 2) Center Instrument Panel, P2
  - 3) AFDS Mode Control Panel, P7
  - 4) Captain's EFIS Panel, P7
  - 5) Captain's Auxiliary Panel, P21
  - 6) Captain's Control Column

SUBTASK 33-11-00-940-002

- (9) If a windshield cover, STD-1176 was used on the windshield, remove it.

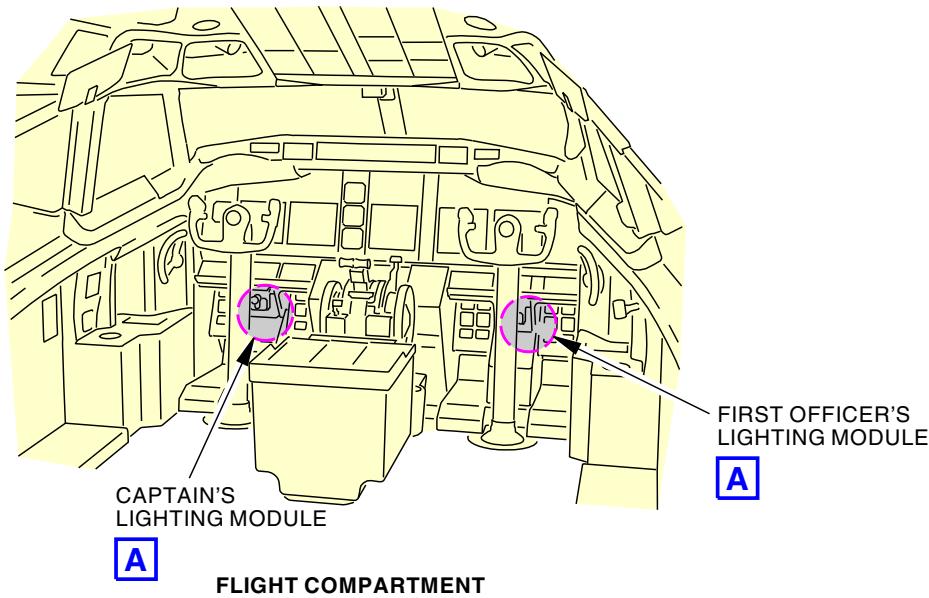
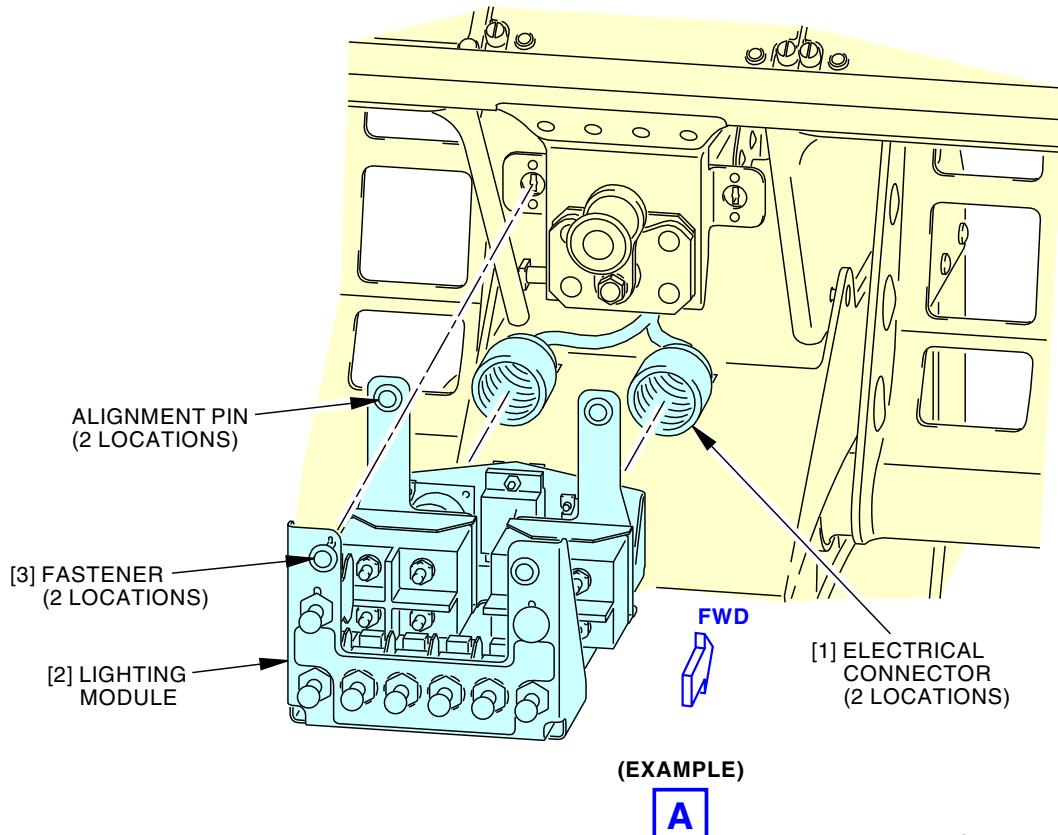
SUBTASK 33-11-00-860-004

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

———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-11-00**


**FLIGHT COMPARTMENT**

**(EXAMPLE)**


F82187 S0006575941\_V2

### **Lighting Modules**

**Figure 201/33-11-00-990-801**

EFFECTIVITY  
LOM ALL

**33-11-00**

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**TASK 33-11-00-960-802**

**5. First Officer's Lighting Module - Module Replacement**

(Figure 201)

**A. General**

- (1) The first officer's lighting module is located near the rudder pedal adjustment crank below the first officer's instrument panel (P3).

**B. References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)

**C. Tools/Equipment**

Reference	Description
STD-1176	Cover - Windshield Blackout Screen

**D. Location Zones**

Zone	Area
212	Flight Compartment - Right

**E. Procedure**

SUBTASK 33-11-00-860-005

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

**F/O Electrical System Panel, P6-3**

Row	Col	Number	Name
B	10	C00335	PANEL & INSTR 28V PRI F/O
D	8	C00701	EMER PANEL LTG

- (2) Open the First Officer's Lighting Module, P42

- (a) 42C1 28V PRIM F/O PANEL LIGHTING
- (b) 42C2 5V SEC F/O PANEL LIGHTING
- (c) 42C3 5V SEC F/O PANEL LIGHTING
- (d) 42C4 5V EMER & F/O PANEL LIGHTING
- (e) 42C5 4V SEC F/O PANEL LIGHTING
- (f) 42C6 4V EMER & F/O PANEL LIGHTING

SUBTASK 33-11-00-960-002

- (3) Do these steps to replace the lighting module [2]:

- (a) Loosen the fasteners [3].
- (b) Pull the lighting module [2] away from the rudder pedals enough to disconnect the electrical connectors [1].
- (c) Disconnect the electrical connectors [1].
- (d) Tag the electrical connectors [1] for the installation.
- (e) Remove the lighting module [2].
- (f) Connect the electrical connectors [1] to the replacement lighting module [2].
- (g) Install the replacement lighting module [2].

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LOM ALL

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- 1) Align the pins on the back of the lighting module with the holes in the bracket below the rudder pedal adjustment crank.
- (h) Tighten the fasteners [3].

SUBTASK 33-11-00-860-006

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

SUBTASK 33-11-00-860-007

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

**F/O Electrical System Panel, P6-3**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	10	C00335	PANEL & INSTR 28V PRI F/O
D	8	C00701	EMER PANEL LTG

- (6) Close the First Officer's Lighting Module, P42
  - (a) 42C1 28V PRIM F/O PANEL LIGHTING
  - (b) 42C2 5V SEC F/O PANEL LIGHTING
  - (c) 42C3 5V SEC F/O PANEL LIGHTING
  - (d) 42C4 5V EMER & F/O PANEL LIGHTING
  - (e) 42C5 4V SEC F/O PANEL LIGHTING
  - (f) 42C6 4V EMER & F/O PANEL LIGHTING

SUBTASK 33-11-00-940-003

- (7) If it is necessary, put a windshield cover, STD-1176 on the windshield.

NOTE: During the day, the changes in light intensity are not easy to see.

SUBTASK 33-11-00-710-002

- (8) Do these steps to test the replacement lighting module [2]:
  - (a) On the first officer's instrument panel P3, turn the PANEL control clockwise to the full BRIGHT position.
  - (b) Make sure that these panels and column come on and are of the same intensity:
    - 1) First Officer's Instrument Panel, P3
    - 2) First Officer's Auxiliary Panel, P23
    - 3) First Officer's Control Column

SUBTASK 33-11-00-940-004

- (9) If a windshield cover, STD-1176 was used on the windshield, remove it.

SUBTASK 33-11-00-860-008

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

———— END OF TASK ————

**TASK 33-11-00-960-809**

**6. Stabilizer Trim Warning Light Lamp Replacement**

(Figure 202)

**A. References**

<u>Reference</u>	<u>Title</u>
24-22-00-860-811	Supply Electrical Power (P/B 201)

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(Continued)

Reference	Title
24-22-00-860-812	Remove Electrical Power (P/B 201)

**B. Location Zones**

Zone	Area
211	Flight Compartment - Left

**C. Procedure**

SUBTASK 33-11-00-860-029

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

SUBTASK 33-11-00-860-030

- (2) At the captain's main instrument panel, P1, set the switch for the master dim and test lights to TEST.

SUBTASK 33-11-00-210-001

- (3) Identify the defective lamp(s).

SUBTASK 33-11-00-860-031

- (4) Set the switch to the off position.

SUBTASK 33-11-00-860-032

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

**CAPT Electrical System Panel, P18-1**

Row	Col	Number	Name
C	2	C00849	AFCS STABILIZER TRIM

**F/O Electrical System Panel, P6-3**

Row	Col	Number	Name
E	12	C00314	INDICATOR MASTER DIM SECT 2

SUBTASK 33-11-00-960-007

- (6) Do these steps to replace the lamp(s):

- (a) Hold the cap assembly and pull directly out to retract the cap assembly locking pins.  
(b) Continue to pull the cap assembly until it is free from the base assembly.

NOTE: The cap assembly will remain attached to the base assembly by two retaining elements.

- (c) Remove the defective lamp(s).  
(d) Put the new lamp(s) into the lamp holder.  
(e) Check that the cap assembly is in the extended position (Figure 202).  
(f) If the cap assembly is in a collapsed position, then do these steps:  
1) Grasp the cap shell and the lamp holder.  
2) Pull apart the cap shell from the lamp holder until the locking pins are retracted.

NOTE: In the collapsed position, locking pins are extended and cannot lock the cap assembly into the base assembly. Thus, the shaft will not operate the switches and the lamps will fail to touch the energized pins in the mounting base.

- (g) Put the cap assembly into the mounting base.

EFFECTIVITY  
LOM ALL

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- (h) Push the cap assembly firmly back into the base assembly until the cap assembly reaches the bottom of the base assembly.

NOTE: The cap assembly should collapse and the locking pins should engage the base assembly. Failure to put the cap assembly into the base assembly can cause the cap to prematurely release and cause the unit to not work properly.

SUBTASK 33-11-00-860-033

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

**CAPT Electrical System Panel, P18-1**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	2	C00849	AFCS STABILIZER TRIM

**F/O Electrical System Panel, P6-3**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
E	12	C00314	INDICATOR MASTER DIM SECT 2

SUBTASK 33-11-00-710-009

- (8) Do a test of the new lamp(s):

- At the captain's main instrument panel, P1, set the switch for the master dim and test lights to TEST.
- Make sure that the replaced lamp(s) is on.
- Set the switch to the off position.

SUBTASK 33-11-00-860-034

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

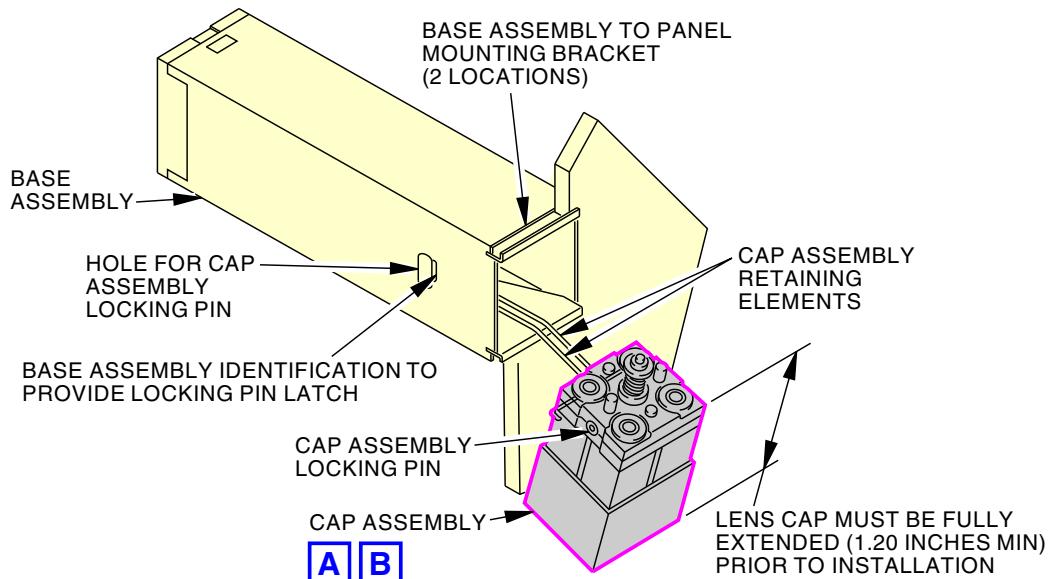
———— END OF TASK ————

EFFECTIVITY  
LOM ALL

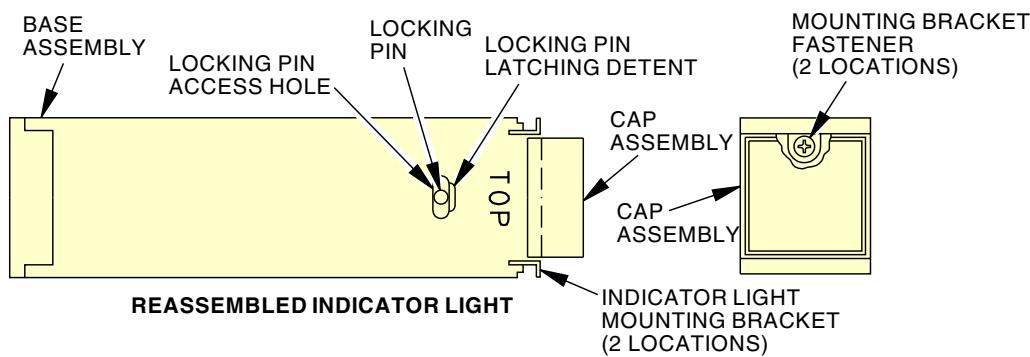
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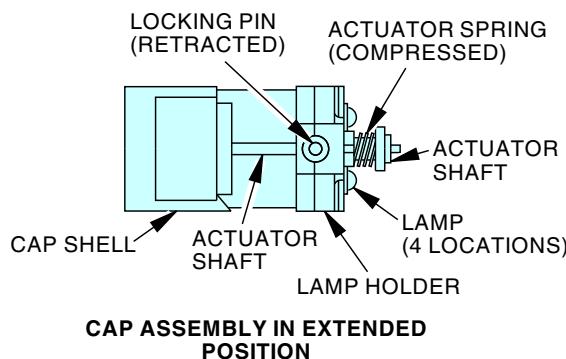
**737-600/700/800/900  
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**INDICATOR LIGHT IN RELAMPING POSITION**

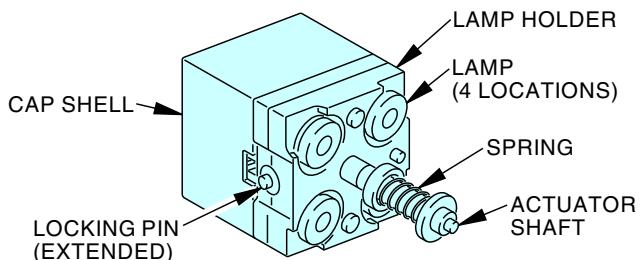


**REASSEMBLED INDICATOR LIGHT**



**CAP ASSEMBLY IN EXTENDED POSITION**

**A**



**CAP ASSEMBLY IN COLLAPSED POSITION**

**B**

2105254 S0000448524\_V2

**Stabilizer Trim Warning Light - Lamp Replacement  
Figure 202/33-11-00-990-807**

EFFECTIVITY  
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**TASK 33-11-00-960-810**

**7. Stabilizer Trim Warning Light - Cap Assembly Replacement**

(Figure 202)

**A. General**

- (1) This task includes the steps to replace the stabilizer trim warning light cap assembly.

**B. References**

Reference	Title
22-11-00-740-801	Digital Flight Control System (DFCS) - Operational Test (P/B 501)

**C. Location Zones**

Zone	Area
211	Flight Compartment - Left

**D. Prepare for the Cap Assembly Replacement**

SUBTASK 33-11-00-860-035

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

**CAPT Electrical System Panel, P18-1**

Row	Col	Number	Name
C	2	C00849	AFCS STABILIZER TRIM
D	3	C01048	AFCS SYS A ENGAGE INTLK

**F/O Electrical System Panel, P6-2**

Row	Col	Number	Name
B	4	C00716	AFCS SYS B ENGAGE INTLK

**F/O Electrical System Panel, P6-3**

Row	Col	Number	Name
E	12	C00314	INDICATOR MASTER DIM SECT 2

**E. Cap Assembly Replacement**

SUBTASK 33-11-00-960-008

- (1) Do these steps to replace the cap assembly:

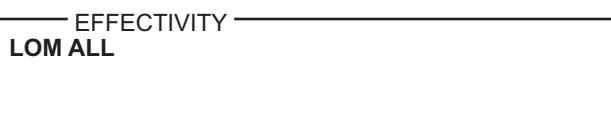
- (a) Hold the cap assembly and pull directly out to retract the cap assembly locking pins.  
(b) Continue to pull the cap assembly until it is free from the base assembly.

NOTE: The cap assembly will remain attached to the base assembly by two retaining elements.

- (c) Check that the cap assembly is in the extended position (Figure 202).  
(d) If the cap assembly is in a collapsed position, do these steps:

- 1) Grasp the cap shell and the lamp holder.  
2) Pull apart the cap shell from the lamp holder until the locking pins are retracted.

NOTE: In the collapsed position, locking pins are extended and cannot lock the cap assembly into the base assembly. Thus, the shaft will not operate the switches and the lamps will fail to touch the energized pins in the mounting base.



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- (e) Remove the cap assembly retaining elements from the two small holes in the lampholder of the cap assembly.
  - 1) Make sure not to bend the cap assembly retaining elements.
- (f) Install the cap assembly retaining elements into the two small holes in the lampholder of the new cap assembly.
  - 1) Make sure not to bend the cap assembly retaining elements.
- (g) Put the cap assembly into the mounting base.
- (h) Push the cap assembly firmly back into the base assembly until the cap assembly reaches the bottom of the base assembly.

**NOTE:** The cap assembly should collapse and the locking pins should engage the base assembly. Failure to put the cap assembly into the base assembly can cause the cap to prematurely release and cause the unit to not work properly.

**F. Put the Airplane Back to Its Usual Condition**

SUBTASK 33-11-00-860-036

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

**CAPT Electrical System Panel, P18-1**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	2	C00849	AFCS STABILIZER TRIM
D	3	C01048	AFCS SYS A ENGAGE INTLK

**F/O Electrical System Panel, P6-2**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	4	C00716	AFCS SYS B ENGAGE INTLK

**F/O Electrical System Panel, P6-3**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
E	12	C00314	INDICATOR MASTER DIM SECT 2

**G. Cap Assembly Replacement Test**

SUBTASK 33-11-00-700-001

- (1) Do a test of the lamps.
  - (a) On the P1 captain's main instrument panel, set the switch for the master dim and test lights to TEST.
  - (b) Make sure that the lamps come on.
  - (c) Set the switch to the off position.

SUBTASK 33-11-00-710-010

- (2) Do this task: Digital Flight Control System (DFCS) - Operational Test, TASK 22-11-00-740-801.

**NOTE:** Library Test 32 in the SPEED TRIM TEST will check the Stabilizer Trim Warning Light wiring.

———— END OF TASK ————

EFFECTIVITY
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**TASK 33-11-00-960-803**

**8. Control Column Memory Device - Lamp Replacement**

(Figure 203)

**A. Location Zones**

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

**B. Procedure**

SUBTASK 33-11-00-860-009

- (1) For the captain's or the first officer's control column memory device, open the applicable circuit breaker and install a safety tag:

**F/O Electrical System Panel, P6-3**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
B	9	C00331	PANEL & INSTR 28V PRI CAPT & CTR
B	10	C00335	PANEL & INSTR 28V PRI F/O

SUBTASK 33-11-00-960-003

- (2) Do these steps to replace the lamps [5]:
  - (a) Press the spring-loaded pin [3] to remove the cap [2].
  - (b) Push the lamp holder [4] out of the memory device [1].
    - 1) Make sure that you do not remove the axle and wheels in the memory device [1] when you push the lamp holder [4] out of the memory device [1].
  - (c) Remove the applicable lamps [5] from the lamp holder [4].
  - (d) Make sure that the electrical contact in the lamp holder [4] is clean.
  - (e) Install the new lamps [5] into the lamp holder [4].
    - 1) Make sure that the lamps [5] point up to the cap [2].
  - (f) Push the lamp holder [4] back into the memory device [1].
  - (g) Install the cap [2].

SUBTASK 33-11-00-860-011

- (3) Remove the safety tag and close the applicable circuit breaker:

**F/O Electrical System Panel, P6-3**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
B	9	C00331	PANEL & INSTR 28V PRI CAPT & CTR
B	10	C00335	PANEL & INSTR 28V PRI F/O

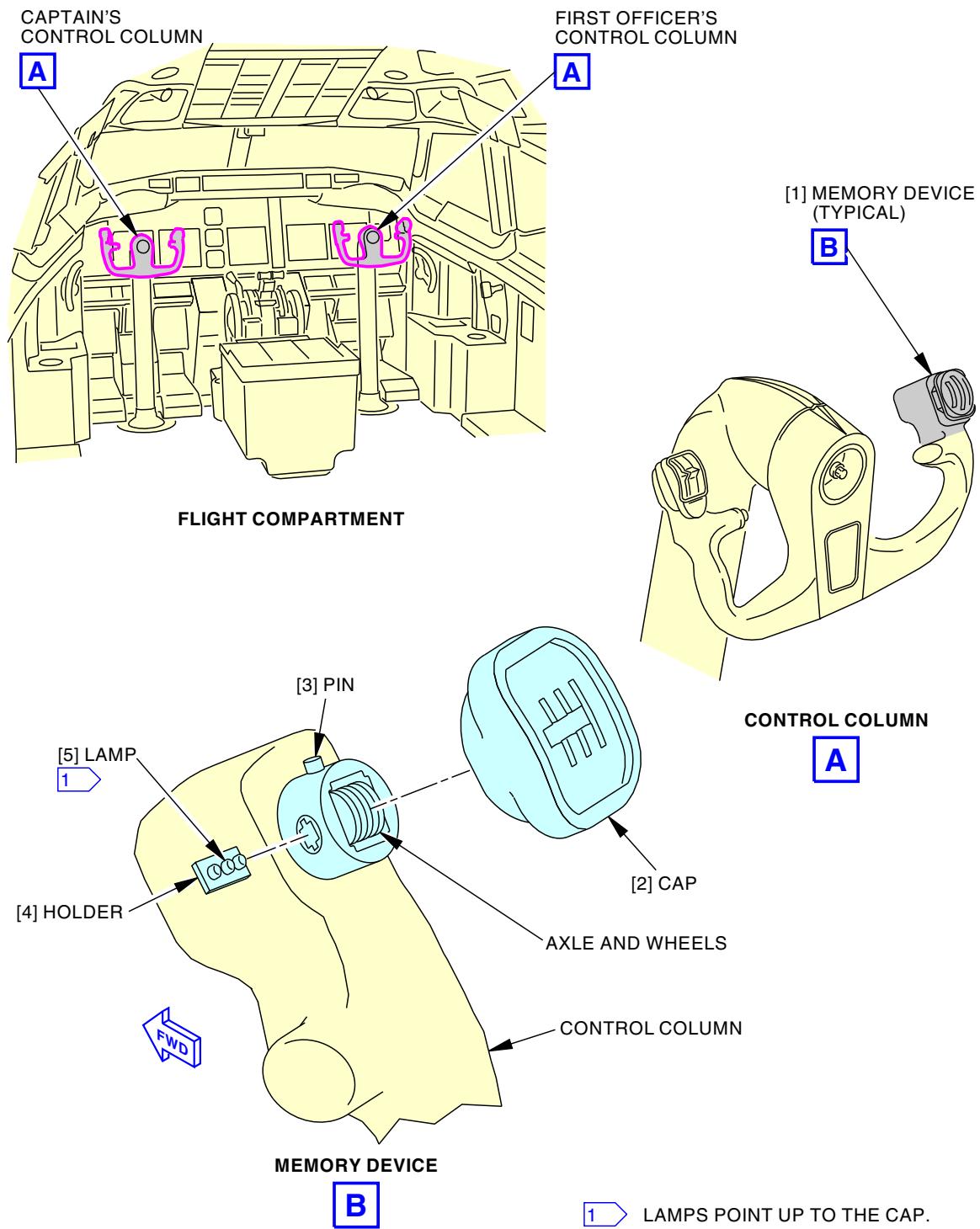
SUBTASK 33-11-00-710-003

- (4) Do a test of the new lamp(s):
  - (a) At the P1 panel, set the CAPT'S AND CENTER PANEL LIGHTING CONTROL switch to the dim position and then to the bright position.
    - 1) Make sure the intensity of the light changes from dim to bright.
  - (b) Set the switch to the off position.

— END OF TASK —



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**Memory Device Lamp Replacement**  
**Figure 203/33-11-00-990-802**

**33-11-00**



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TASK 33-11-00-960-804

9. **Master Warning And Caution System Annunciator - Lamp Replacement**

(Figure 204)

A. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
21	Lamp	33-14-00-09-130	LOM ALL

B. Location Zones

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

C. Master Warning And Caution System Annunciator Lamp Replacement

SUBTASK 33-11-00-860-013

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

F/O Electrical System Panel, P6-3

Row	Col	Number	Name
B	12	C00132	MASTER CAUTION ANNUNCIATOR BUS 1
B	13	C00131	MASTER CAUTION ANNUNCIATOR BAT

SUBTASK 33-11-00-960-004

- (2) Do these steps to replace the lamp [21]:



REMOVE THE LAMP HOUSING WITH YOUR FINGERS ONLY. IF YOU USE A TOOL TO HOLD THE LAMP HOUSING, THE TOOL CAN CAUSE DAMAGE TO THE HOUSING.

- (a) Pull the lamp housing [23] from the annunciator assembly [22].  
(b) Remove the defective lamp [21].  
(c) Put the new lamp [21] into the lamp housing [23].  
(d) Put the lamp housing [23] into the annunciator assembly [22].  
(e) Make sure that the lamp housing [23] engages correctly in the annunciator assembly [22].

SUBTASK 33-11-00-860-015

- (3) Remove the safety tag and close the applicable circuit breaker:

F/O Electrical System Panel, P6-3

Row	Col	Number	Name
B	12	C00132	MASTER CAUTION ANNUNCIATOR BUS 1
B	13	C00131	MASTER CAUTION ANNUNCIATOR BAT

SUBTASK 33-11-00-710-004

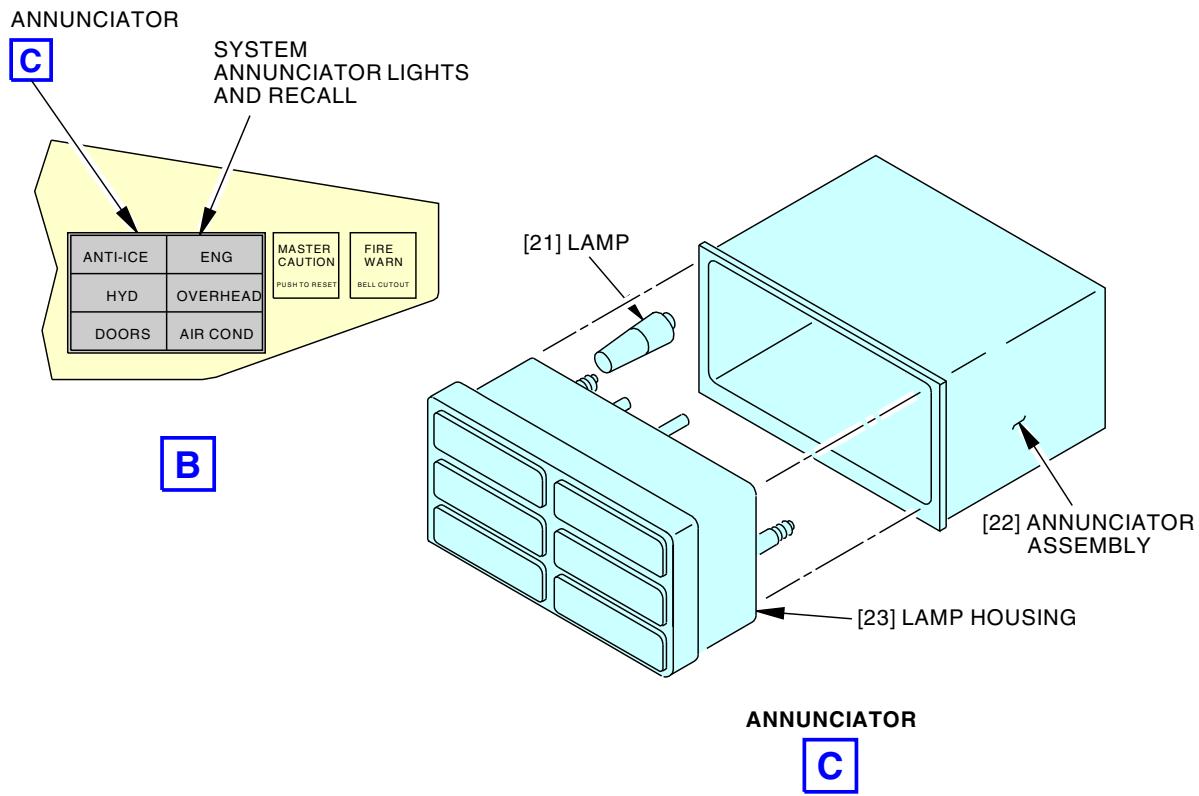
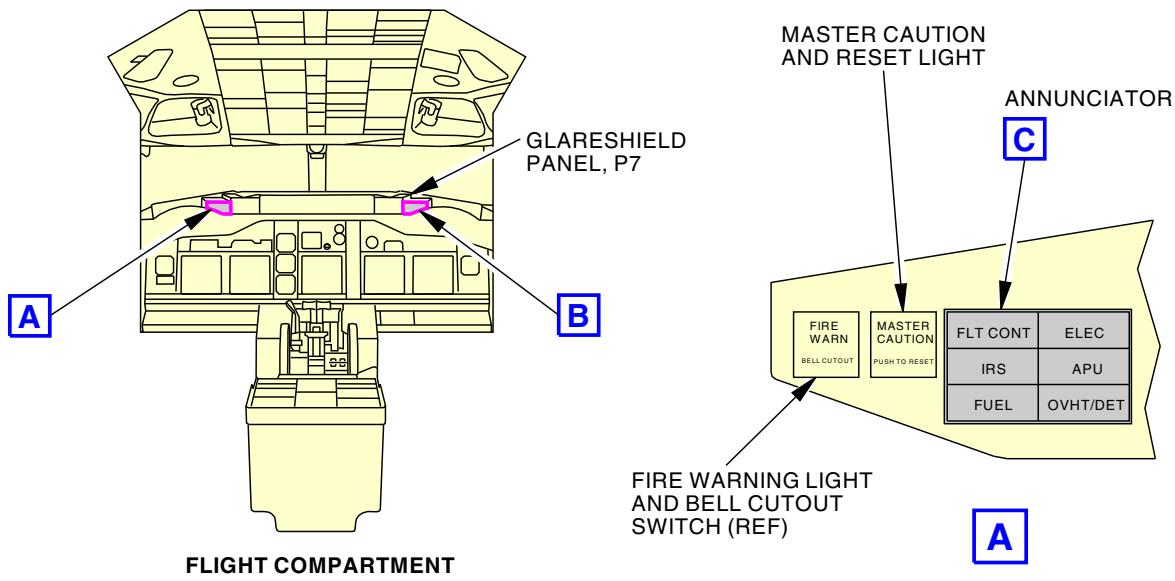
- (4) Do a test of the new lamp [21].

- (a) Set the switch for the master dim and test lights, on the P1 captain's main instrument panel, to the TEST position.  
(b) Make sure that the replaced lamp [21] is on.  
(c) Set the switch to the OFF position.

— END OF TASK —



**33-11-00**



1306261 S0000214775\_V2

**Master Warning And Caution System Annunciator - Lamp Replacement**  
**Figure 204/33-11-00-990-803**

 EFFECTIVITY  
 LOM ALL

**33-11-00**

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ECCN 9E991 BOEING PROPRIETARY - See title page for details



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TASK 33-11-00-960-806

10. **Master Warning And Caution System Annunciator - Light Assembly Replacement**  
(Figure 205)

**A. Location Zones**

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

**B. Procedure**

SUBTASK 33-11-00-860-017

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

**F/O Electrical System Panel, P6-3**

Row	Col	Number	Name
B	12	C00132	MASTER CAUTION ANNUNCIATOR BUS 1
B	13	C00131	MASTER CAUTION ANNUNCIATOR BAT

SUBTASK 33-11-00-960-005

- (2) Do these steps to replace the light assembly [41]:



REMOVE THE LAMP HOUSING WITH YOUR FINGERS ONLY. IF YOU USE A TOOL TO HOLD THE LAMP HOUSING, THE TOOL CAN CAUSE DAMAGE TO THE HOUSING.

- (a) Pull the lamp housing [44] from the annunciator assembly.
- (b) Loosen the screws [43] and pull the light assembly [41].
- (c) Loosen the screws [42] at the back of the light assembly [41] to disconnect the electrical wires.
- (d) Replace the light assembly [41].
- (e) Connect the electrical wires to the new light assembly [41].
- (f) Tighten the screws [42] at the back of the new light assembly [41].
- (g) Install the light assembly [41] to the annunciator assembly.
- (h) Tighten the screws [43].
  - 1) Make sure you tight two screws [43] evenly.
- (i) Put the lamp housing [44] into the annunciator assembly.
- (j) Make sure that the lamp housing [44] engages correctly in the annunciator assembly.

SUBTASK 33-11-00-860-018

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

**F/O Electrical System Panel, P6-3**

Row	Col	Number	Name
B	12	C00132	MASTER CAUTION ANNUNCIATOR BUS 1
B	13	C00131	MASTER CAUTION ANNUNCIATOR BAT

SUBTASK 33-11-00-710-006

- (4) Do a test of the new light assembly [41]:

- (a) At the captain's main instrument panel, P1, set the switch for the master dim and test lights to TEST.

EFFECTIVITY  
LOM ALL

**33-11-00**



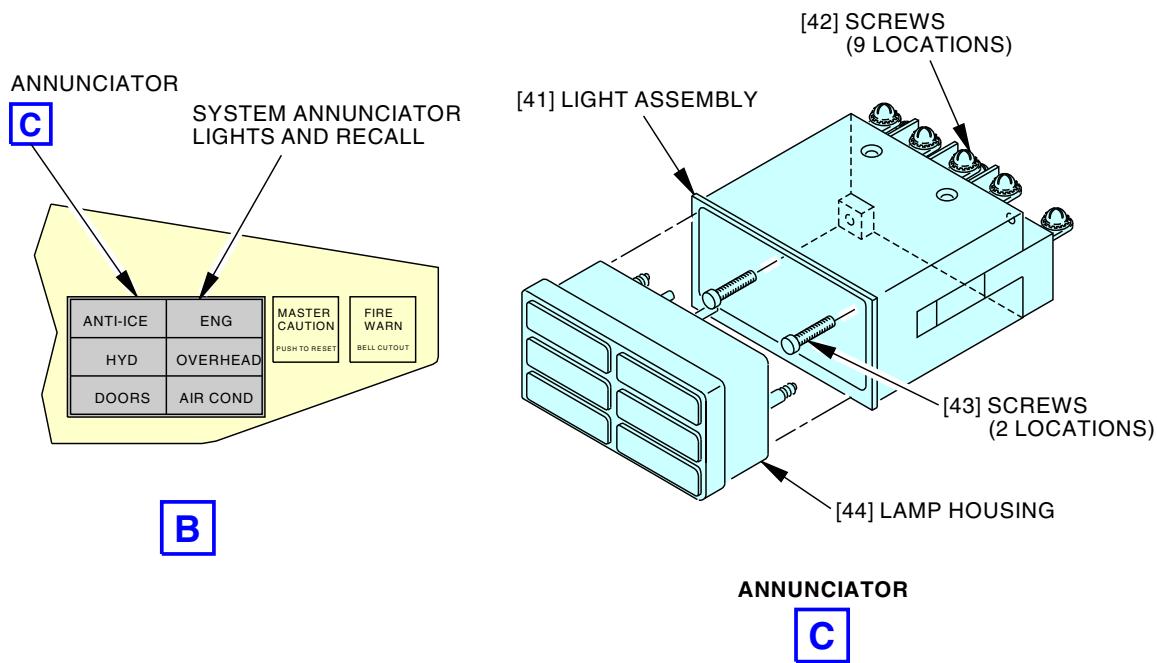
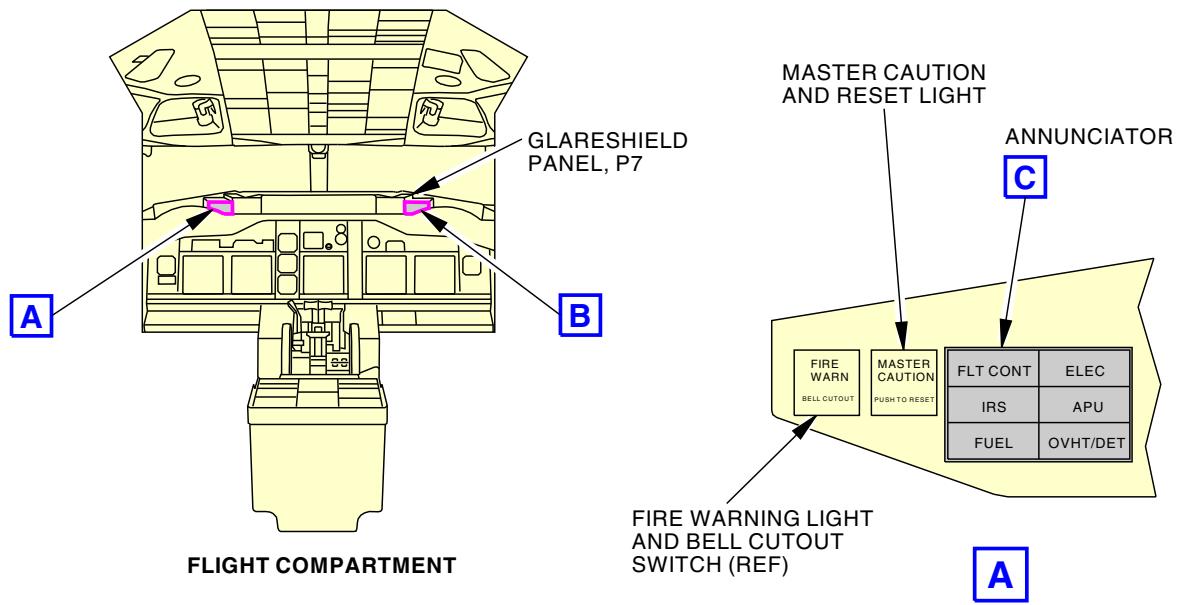
**737-600/700/800/900**  
**AIRCRAFT MAINTENANCE MANUAL**

- (b) Make sure that the light is on.
- (c) Set the switch to the off position.

———— END OF TASK ————

— EFFECTIVITY —  
**LOM ALL**

**33-11-00**



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**Master Warning And Caution System Annunciator - Light Assembly Replacement**  
**Figure 205/33-11-00-990-804**

 EFFECTIVITY  
 LOM ALL

**33-11-00**

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**TASK 33-11-00-960-807**

**11. Master Warning And Caution Light Switch - Switch Replacement**

(Figure 206 or Figure 207)

**A. References**

Reference	Title
26-16-00-710-801	Cargo Bay Smoke Detection - Operational Test (P/B 501)
WDM 26-11-21	Wiring Diagram Manual
WDM 31-52-11	Wiring Diagram Manual

**B. Location Zones**

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

**C. Prepare for the Replacement**

SUBTASK 33-11-00-860-021

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

**F/O Electrical System Panel, P6-2**

Row	Col	Number	Name
A	21	C00396	FIRE PROT DETECTION MA WRN & CONT

**F/O Electrical System Panel, P6-3**

Row	Col	Number	Name
B	12	C00132	MASTER CAUTION ANNUNCIATOR BUS 1
B	13	C00131	MASTER CAUTION ANNUNCIATOR BAT

**D. Switch Replacement**

SUBTASK 33-11-00-020-003

- (1) To remove the switch [61] (WDM 26-11-21, WDM 31-52-11), do these steps:
  - (a) Remove the screws to the panel below the switch.
  - (b) Remove the panel.
  - (c) Remove the switch cap [62].
  - (d) Remove the nut [63] and lock washer [64].

**LOM 402, 404, 406 PRE SB 737-31-1284**

- (e) Disconnect the wires from the switch [61].

**LOM 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-999; LOM 402, 404, 406 POST SB 737-31-1284**

- (f) Disconnect the quick disconnect connector [65].

**LOM ALL**

- (g) Remove the switch [61].

SUBTASK 33-11-00-420-003

- (2) To install the new switch [61] (WDM 26-11-21, WDM 31-52-11), do these steps:
  - (a) Remove the nut [63] and lock washer [64] from the switch [61].

NOTE: Do not remove the key washer.

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**LOM ALL**

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**LOM 402, 404, 406 PRE SB 737-31-1284**

- (b) Connect the wires to the switch [61].

**LOM 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-999; LOM 402, 404, 406 POST SB 737-31-1284**

- (c) Connect the quick disconnect connector [65].

**LOM ALL**

- (d) Place the switch [61] in its position.
- (e) Install the lock washer [64] and nut [63].
- (f) Tighten the nut [63].
- (g) Install the switch cap [62].
- (h) Install the panel below the switch.
- (i) Install screws.

**E. Switch Installation Test**

SUBTASK 33-11-00-860-047

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

**F/O Electrical System Panel, P6-2**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	21	C00396	FIRE PROT DETECTION MA WRN & CONT

**F/O Electrical System Panel, P6-3**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	12	C00132	MASTER CAUTION ANNUNCIATOR BUS 1
B	13	C00131	MASTER CAUTION ANNUNCIATOR BAT

SUBTASK 33-11-00-710-018

- (2) Do a test of the Master Caution and Reset Light switch.

- (a) At the P1 captain's main instrument panel, set the switch for the Master Dim and Test Lights to the TEST position.
- (b) Make sure that the lamp in the Master Caution and Reset switch is on.
- (c) Release the TEST switch, on the P1 captain's main instrument panel.

SUBTASK 33-11-00-710-019

- (3) Do a test of the Fire Warning Light switch.

- (a) At the P8 engine and Auxiliary Power Unit (APU) fire control panel, set the TEST switch to the OVHT/FIRE position.
- (b) Make sure that the lamp in the Fire Warning Light switch is on.
- (c) Release the TEST switch, on the P8 engine and APU fire control panel.

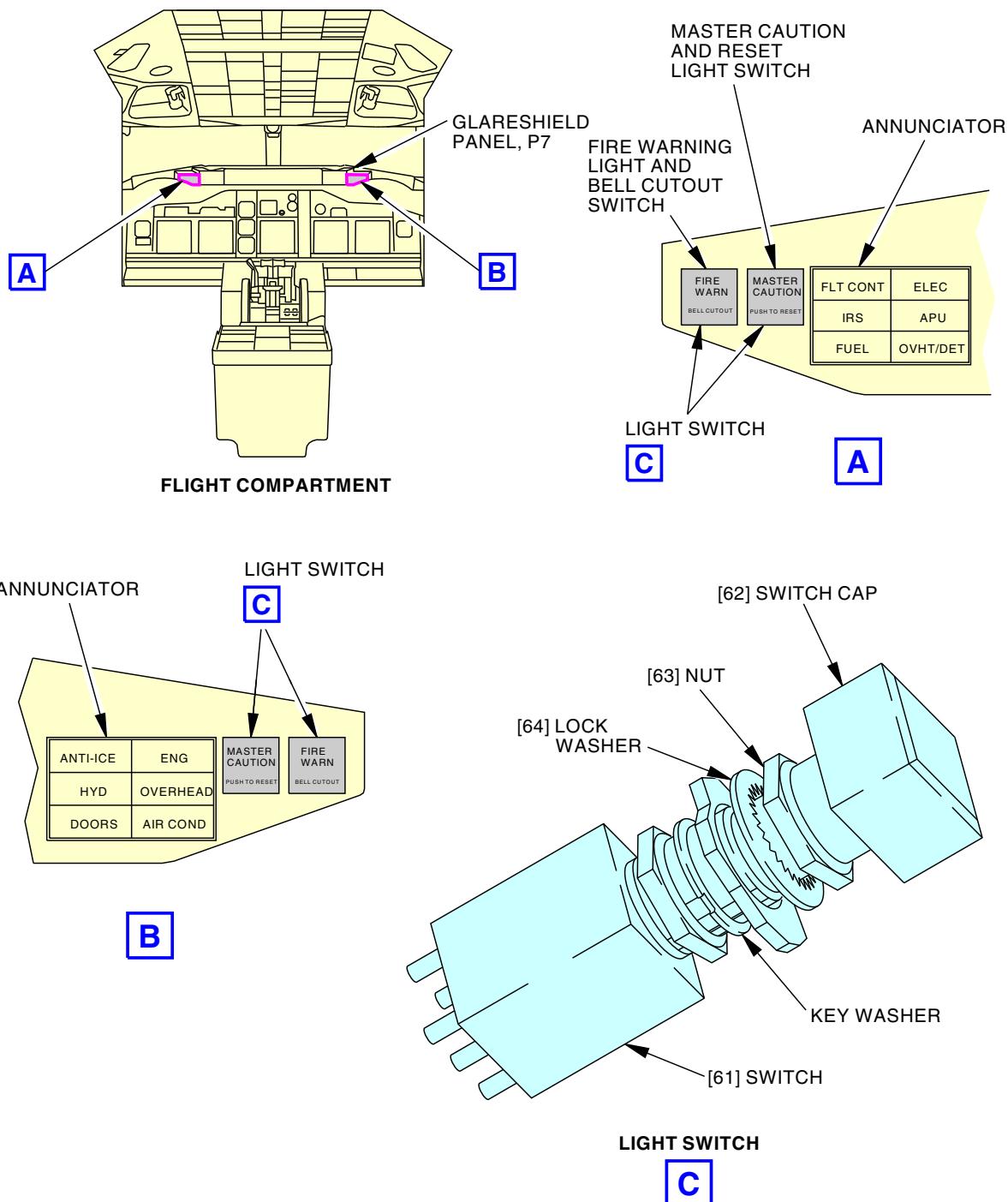
SUBTASK 33-11-00-710-020

- (4) Do a test of the bell cutoff function of the switches (TASK 26-16-00-710-801).

———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-11-00**

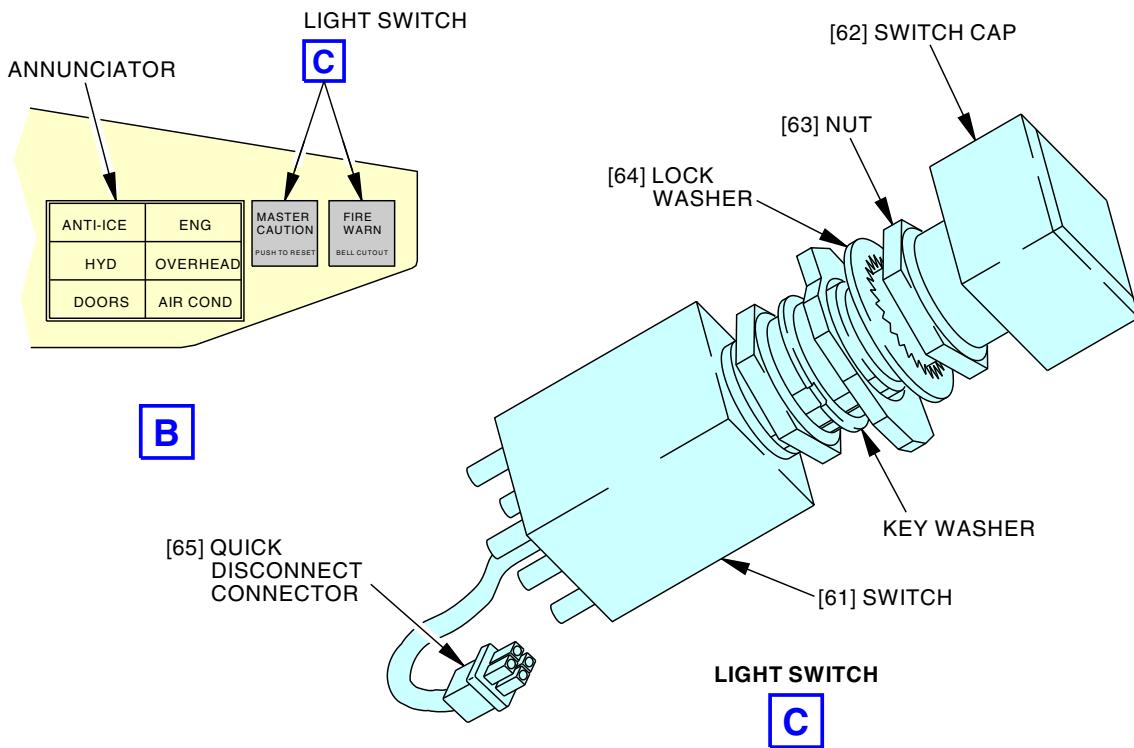
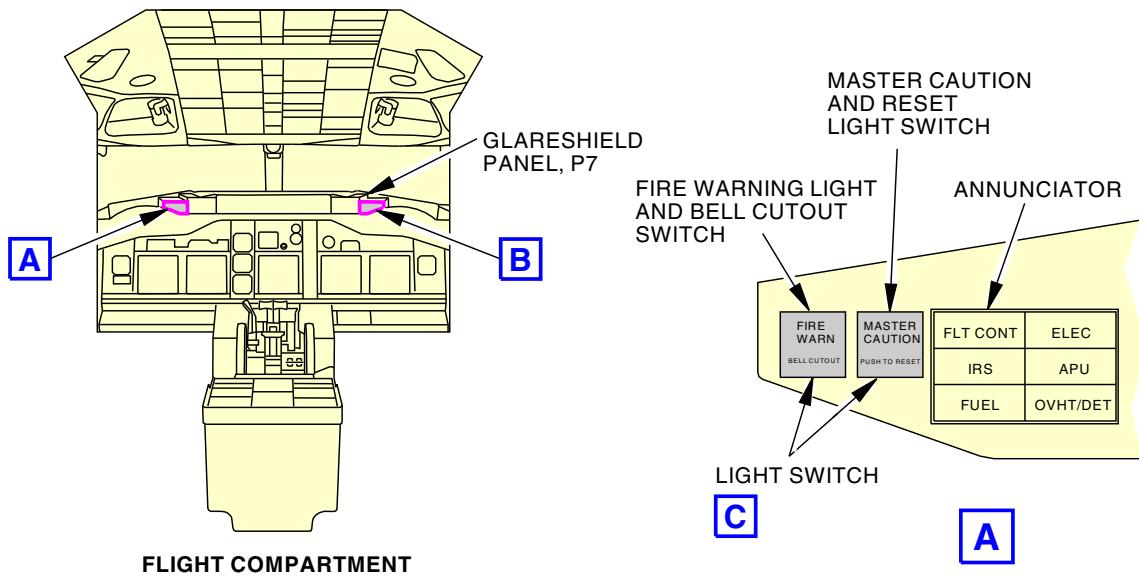


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**Master Warning And Caution Light Switch - Switch Replacement**  
**Figure 206/33-11-00-990-805**

EFFECTIVITY  
 LOM 402, 404, 406 PRE SB 737-31-1284

**33-11-00**



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**Master Warning And Caution Light Switch - Switch Replacement**  
**Figure 207/33-11-00-990-809**

EFFECTIVITY  
 LOM 407, 411, 412, 415, 416, 420, 422-434, 437-447,  
 450-999; LOM 402, 404, 406 POST SB 737-31-1284

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TASK 33-11-00-960-808

12. **Master Warning And Caution Light Switch - Lamp Replacement**  
(Figure 208)

**A. References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
WDM 26-11-21	Wiring Diagram Manual
WDM 31-52-11	Wiring Diagram Manual

**B. Location Zones**

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

**C. Prepare for the switch replacement**

SUBTASK 33-11-00-860-025

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

**F/O Electrical System Panel, P6-2**

Row	Col	Number	Name
A	21	C00396	FIRE PROT DETECTION MA WRN & CONT

**F/O Electrical System Panel, P6-3**

Row	Col	Number	Name
B	12	C00132	MASTER CAUTION ANNUNCIATOR BUS 1
B	13	C00131	MASTER CAUTION ANNUNCIATOR BAT

**D. Procedure**

SUBTASK 33-11-00-960-006

- (1) Do these steps to replace the lamp [81] (WDM 26-11-21, WDM 31-52-11):
- Remove the switch cap [82].
  - Remove the lamp [81].
  - Install the new lamp [81].
  - Install the switch cap [82].

SUBTASK 33-11-00-860-026

- (2) Make sure electrical power is supplied to the airplane. To supply it, do this task: Supply Electrical Power, TASK 24-22-00-860-811.

SUBTASK 33-11-00-860-027

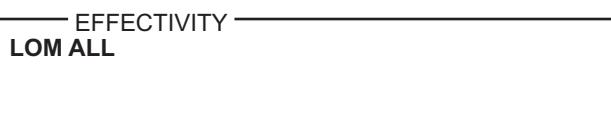
- (3) Remove the safety tag and close the applicable circuit breaker:

**F/O Electrical System Panel, P6-2**

Row	Col	Number	Name
A	21	C00396	FIRE PROT DETECTION MA WRN & CONT

**F/O Electrical System Panel, P6-3**

Row	Col	Number	Name
B	12	C00132	MASTER CAUTION ANNUNCIATOR BUS 1



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(Continued)

**F/O Electrical System Panel, P6-3**

Row    Col    Number    Name

B        13      C00131     MASTER CAUTION ANNUNCIATOR BAT

SUBTASK 33-11-00-710-008

- (4) Do a test of the Master Caution and Reset Light lamp.
  - (a) At the captain's main instrument panel, P1, set the switch for the Master Dim and Test Lights to the TEST position.
  - (b) Make sure that the lamp in the Master Caution and Reset switch is on.
  - (c) Release the TEST switch on the captain's main instrument panel, P1.

SUBTASK 33-11-00-710-014

- (5) Do a test of the Fire Warning Light lamp.
  - (a) At the engine and APU fire control panel, P8, set the TEST switch to the OVHT/FIRE position.
  - (b) Make sure that the lamp in the Fire Warning Light switch is on.
  - (c) Release the TEST switch on the engine and APU fire control panel, P8.

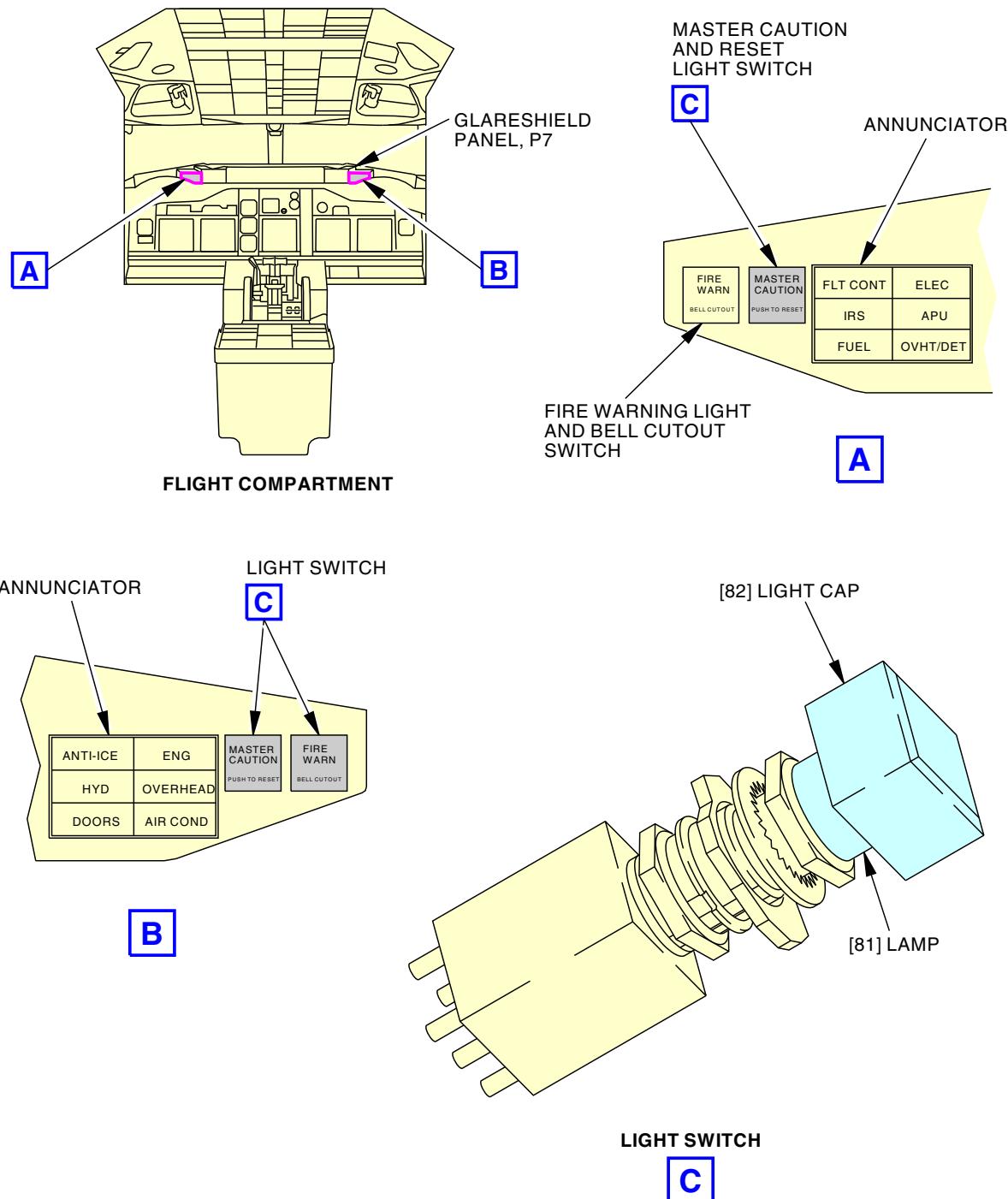
———— END OF TASK ————

EFFECTIVITY  
LOM ALL

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**Master Warning And Caution Light Switch - Lamp Replacement**  
**Figure 208/33-11-00-990-806**

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LOM 465-999

**TASK 33-11-00-960-805**

**13. Flight Number Reminder Indicator - Replacement**

**A. Location Zones**

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

**B. Replace the Flight Number Indicator**

SUBTASK 33-11-00-865-001

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

**F/O Electrical System Panel, P6-3**

Row	Col	Number	Name
B	9	C00331	PANEL & INSTR 28V PRI CAPT & CTR

SUBTASK 33-11-00-020-002

- (2) Remove the flight number indicator reminder.

- (a) Loosen the clamp adjustment screw that holds the indicator.

**NOTE:** There are two screws that hold the indicator clamp in place. Turn the the protruding round head screw to loosen the clamp. Do not turn the flush countersunk screw.

- (b) Remove the indicator from the panel.

- (c) Disconnect the electrical connector from the indicator.

SUBTASK 33-11-00-420-002

- (3) Install the flight number indicator in the panel.

- (a) Connect the electrical connector to the indicator.

- (b) Put the indicator in its position in the panel.

- (c) Make sure you have the indicator aligned correctly.

- (d) Tighten the adjustment screw on the clamp to hold the indicator in position.

**NOTE:** There are two screws that hold the indicator clamp in place. Turn the the protruding round head screw to tighten the clamp. Do not turn the flush countersunk screw.

SUBTASK 33-11-00-865-002

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

**F/O Electrical System Panel, P6-3**

Row	Col	Number	Name
B	9	C00331	PANEL & INSTR 28V PRI CAPT & CTR

SUBTASK 33-11-00-710-005

- (5) Do a test of the indicator.

- (a) Make sure the indicator lighting is correct .

- (b) Make sure the digit segment change.

- 1) Push the upper button and make sure the digit change.

- 2) Push the lower button and make sure the digit change.

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LOM ALL

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LOM 465-999 (Continued)

- 3) Repeat these steps for each of the digit segments.
- (c) Move the digit segments to all zeros as a pre-flight condition after maintenance.

LOM ALL

———— END OF TASK ————

**TASK 33-11-00-000-801**

**14. Control Column Memory Device - Removal**

(Figure 209)

**A. General**

- (1) This task includes the steps to remove the Control Column Memory Device.

**B. Location Zones**

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

**C. Prepare for the Removal**

SUBTASK 33-11-00-860-039

- (1) For the captain's or the first officer's control column memory device, open the applicable circuit breaker and install a safety tag:

Make sure that these circuit breakers are open:

**F/O Electrical System Panel, P6-3**

Row	Col	Number	Name
B	9	C00331	PANEL & INSTR 28V PRI CAPT & CTR
B	10	C00335	PANEL & INSTR 28V PRI F/O

**D. Control Column Memory Device Removal**

SUBTASK 33-11-00-020-004

- (1) Do these steps to remove the memory device [1] from the control column:
  - (a) Remove the two screws [2] that hold the memory device [1].
  - (b) Carefully pull the memory device [1] from the control column.

SUBTASK 33-11-00-020-005

- (2) Disconnect the electrical wires [4] from the memory device [1]:

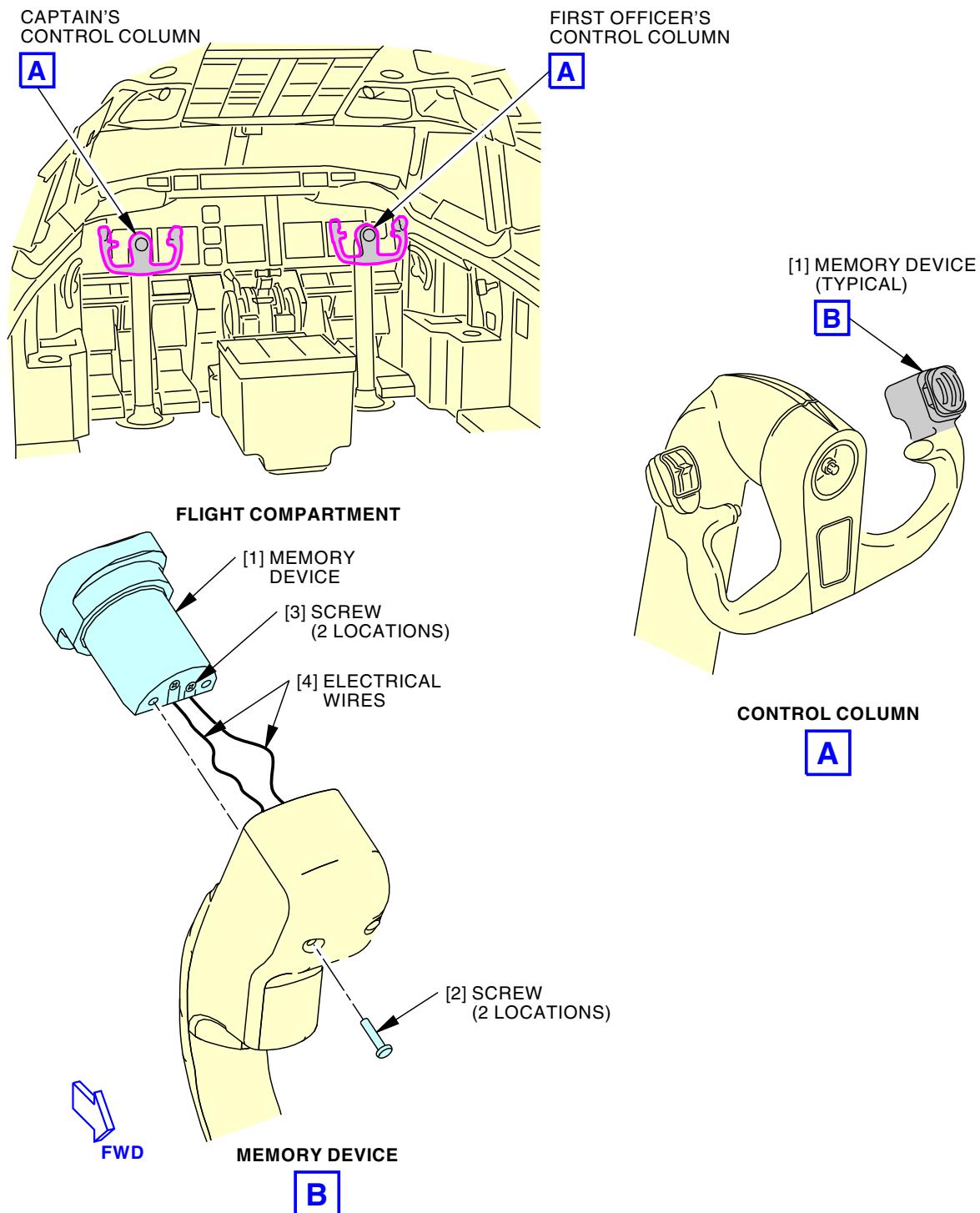
NOTE: Make a note of the wiring for aid during installation of the memory device [1].

- (a) Remove the two screws [3] from the electrical wires [4] and memory device [1].
  - (b) Disconnect the electrical wires [4].

———— END OF TASK ————



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**Control Column Memory Device - Installation  
Figure 209/33-11-00-990-808**

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**TASK 33-11-00-400-801**

**15. Control Column Memory Device - Installation**

(Figure 209)

**A. General**

- (1) This task includes the steps to install the control column memory device.

**B. References**

Reference	Title
24-22-00-860-812	Remove Electrical Power (P/B 201)

**C. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Memory device	27-11-41-02-235	LOM ALL
		33-11-51-04-010	LOM ALL

**D. Location Zones**

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

**E. Prepare for the Installation**

SUBTASK 33-11-00-020-006

- (1) Do these steps to prepare for the installation of the memory device [1]:  
(a) Remove screws [2] and screws [3] from the memory device [1].

**F. Control Column Memory Device Installation**

SUBTASK 33-11-00-420-006

- (1) Do these steps to connect the electrical wires [4] to the memory device [1]:  
(a) Carefully extend the electrical wires [4] and connect it to the back of the memory device [1].  
(b) Install screws [3] to the electrical wire [4] connectors and memory device [1].

SUBTASK 33-11-00-420-005

- (2) Do these steps to install the memory device [1] onto the control column:  
(a) Carefully put the electrical wires [4] and memory device [1] into the control column.  
(b) Install screws [2] onto the control column and the memory device [1].

SUBTASK 33-11-00-860-040

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

**F/O Electrical System Panel, P6-3**

Row	Col	Number	Name
B	9	C00331	PANEL & INSTR 28V PRI CAPT & CTR
B	10	C00335	PANEL & INSTR 28V PRI F/O



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**G. Installation Test**

SUBTASK 33-11-00-710-011

- (1) Do a test of the memory device [1] on the P1 panel, CAPTAIN'S AND CENTER PANEL LIGHTING CONTROL or the P3 panel, FIRST OFFICER PANEL LIGHTING CONTROL:

NOTE: If the two memory devices [1] were installed perform test for both the Captain and First Officer panel lighting control.

- (a) Set the panel bright switch to the dim position and then to the bright position.
- (b) Make sure that the intensity of the light changes from dim to bright.
- (c) Set the panel bright switch to the off position.

**H. Put the Airplane Back to Its Usual Condition**

SUBTASK 33-11-00-860-041

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

————— END OF TASK ————

**TASK 33-11-00-960-811**

**16. Control Stand Lighting Control Panel Replacement**

**A. General**

- (1) This task gives the instructions to replace the control stand lighting control panel.

**B. References**

Reference	Title
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)

**C. Tools/Equipment**

Reference	Description
STD-1176	Cover - Windshield Blackout Screen

**D. Location Zones**

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

**E. Procedure**

SUBTASK 33-11-00-860-042

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

**F/O Electrical System Panel, P6-3**

Row	Col	Number	Name
C	10	C00284	PANEL & INSTR ELEX PANEL

Open this circuit breaker and install safety tag:

**F/O Electrical System Panel, P6-3**

Row	Col	Number	Name
A	8	C00283	CONTROL CABIN LIGHTING CONT STAND

SUBTASK 33-11-00-860-043

- (2) Rotate the PANEL BRIGHT control, on the electronic panel, P8, to the OFF position.

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SUBTASK 33-11-00-860-044

- (3) Rotate the FLOOD BRIGHT control, on the electronic panel, P8, to the OFF position.

SUBTASK 33-11-00-910-001

- (4) Before you touch the control stand lighting control panel, do this task: ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.

SUBTASK 33-11-00-960-009

- (5) Do these steps to replace the control stand lighting control panel [1]:
- Loosen the four quarter-turn fasteners [2].
  - Carefully lift the control stand lighting control panel from the electronic panel, P8, to get access to the electrical connector [3].
  - Disconnect the electrical connector [3].
  - Remove the control stand lighting control panel [1].
  - Examine the electrical connector [3] for bent or broken pins, dirt, and damage.
  - Connect the electrical connector [3] to the replacement control stand lighting control panel.
  - Put the replacement control stand lighting control panel [1] in its position.
  - Tighten the four quarter-turn fasteners [2].

SUBTASK 33-11-00-860-045

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

### F/O Electrical System Panel, P6-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	10	C00284	PANEL & INSTR ELEX PANEL

Remove the safety tag and close this circuit breaker:

### F/O Electrical System Panel, P6-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	8	C00283	CONTROL CABIN LIGHTING CONT STAND

## F. Installation Test

SUBTASK 33-11-00-940-006

- (1) If it is necessary, put a windshield cover, STD-1176 on the windshield.

NOTE: During the day, the changes in light intensity are not easy to see.

SUBTASK 33-11-00-710-012

- (2) Do these steps to test the new control stand lighting control panel:

- Test the FLOOD BRIGHT control on the P8-50 panel:
  - Turn the FLOOD BRIGHT control clockwise to the full BRIGHT position.
    - Make sure that the control stand floodlight comes on brightly.
  - Turn the FLOOD BRIGHT control counter-clockwise to the DIM position.
    - Make sure that the light becomes dim.
  - Turn the FLOOD BRIGHT control counter-clockwise to the OFF position.
    - Make sure that the light goes off.
  - Turn the FLOOD BRIGHT control to the usual position.

- Test the PANEL BRIGHT control on the P8-50 panel:

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LOM ALL

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- 1) Turn the PANEL BRIGHT control clockwise to the full BRIGHT position.
  - a) Make sure that the panel lights come on brightly.
- 2) Turn the PANEL BRIGHT control counter-clockwise to the DIM position.
  - a) Make sure that the lights become dim.
- 3) Turn the PANEL BRIGHT control counter-clockwise to the OFF position.
  - a) Make sure that the lights go off.
- 4) Turn the PANEL BRIGHT control to the usual position.

SUBTASK 33-11-00-940-007

- (3) If it is necessary, remove the windshield cover, STD-1176.

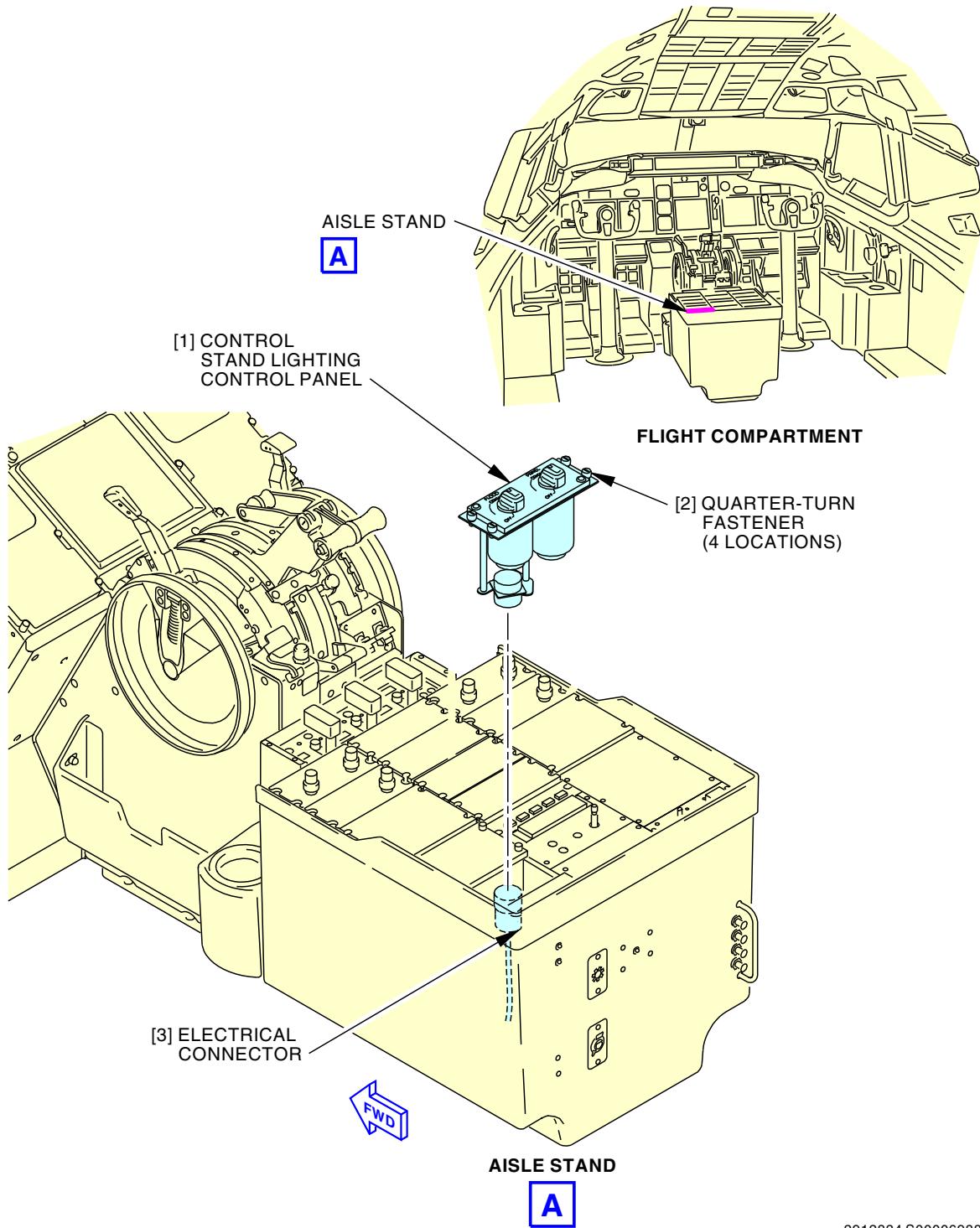
———— END OF TASK ————

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**Control Stand Lighting Control Panel Replacement**  
**Figure 210/33-11-00-990-810**

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MISCELLANEOUS LIGHTS - MAINTENANCE PRACTICES

**1. General**

- A. This procedure has these tasks:
- (1) Miscellaneous Lights Deactivation.
  - (2) Miscellaneous Lights Activation.
  - (3) Panel/Glareshield Floodlight - Light Assembly Replacement.
  - (4) Control Stand Floodlight - Lamp Replacement.
  - (5) Control Stand Floodlight - Light Assembly Replacement.
  - (6) Oxygen Mask Floodlight - Light Assembly Replacement.
  - (7) Dome Light - Lamp Replacement.
  - (8) Left Dome Light - Removal.
  - (9) Left Dome Light - Installation.
  - (10) Circuit Breaker Panel Light - Lamp Replacement.
  - (11) Dimmer Control Unit - Replacement.
  - (12) Panel Floodlights - Operational Test of the Standby Relay.

**TASK 33-14-00-040-801**

**2. Miscellaneous Lights - Deactivation**

(Figure 201)

**A. General**

- (1) This procedure removes electrical power to the Miscellaneous Lights.

**B. Location Zones**

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

**C. Procedure**

SUBTASK 33-14-00-860-030

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

**F/O Electrical System Panel, P6-3**

Row	Col	Number	Name
A	8	C00283	CONTROL CABIN LIGHTING CONT STAND
A	11	C00751	CONT CABIN LIGHTING PANEL FLOOD CONT
A	12	C01425	CONT CABIN LIGHTING PANEL FLOOD STBY
A	14	C00161	CONTROL CABIN LIGHTING STBY COMPASS
A	15	C00282	CONTROL CABIN LIGHTING DOME WHITE
C	9	C00219	PANEL & INSTR CB PANEL
D	8	C00701	EMER PANEL LTG

**D. Miscellaneous Lights - Tryout**

NOTE: This tryout is to make sure the Miscellaneous Lights are in a zero energy state.

SUBTASK 33-14-00-700-001

- (1) For the floodlights do these steps:

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- (a) At the captain's instrument panel, P1-5, turn the AFDS FLOOD control switch clockwise to the full BRIGHT position.
- (b) At the AFT electronics panel, P8, turn the FLOOD control switch clockwise to the full BRIGHT position.

**NOTE:** The floodlights for the P1, P2, P3, P7, P21 and P23 panels are above the panels.  
The floodlight for the P8 and P10 panels is above the aisle stand on the P5 panel.

- 1) Make sure none of the following floodlights come on:

- a) P1 captain instrument panel.
- b) P2 center instrument panel.
- c) P3 first officer instrument panel.
- d) P7 glareshield panel.
- e) P8 aft electronics panel.
- f) P10 control stand.
- g) P21 captain's oxygen mask stowage panel.
- h) P23 first officer's oxygen mask stowage panel

- (c) Turn the control switches on the P1-5 and P8 panels counter clockwise to the OFF position.

**SUBTASK 33-14-00-700-002**

- (2) For the dome lights, do these steps:

- (a) On the AFT overhead panel, P5, set the switch for the dome lights to the BRIGHT position.
  - 1) Make sure none of the dome lights come on.
- (b) Set the switch to the DIM position.
  - 1) Make sure none of the dome lights come on.
- (c) Set the switch to the OFF position.

- (3) For the circuit breaker lights, do these steps:

- (a) On the FWD overhead panel, P5, turn the CIRCUIT BREAKER control switch clockwise to the full BRIGHT position.
  - 1) Make sure none of the circuit breaker lights come on.
- (b) Turn the CIRCUIT BREAKER control switch counter clockwise to the OFF position.

- (4) For the standby compass light, do these steps:

- (a) Just forward of FWD overhead panel, P5, set the standby compass light switch to the BRIGHT position.
  - 1) Make sure the standby compass light does not come on.
- (b) Set the standby compass light switch to the DIM position.
  - 1) Make sure the standby compass light does not come on.
- (c) Set the standby compass light switch to the OFF position.

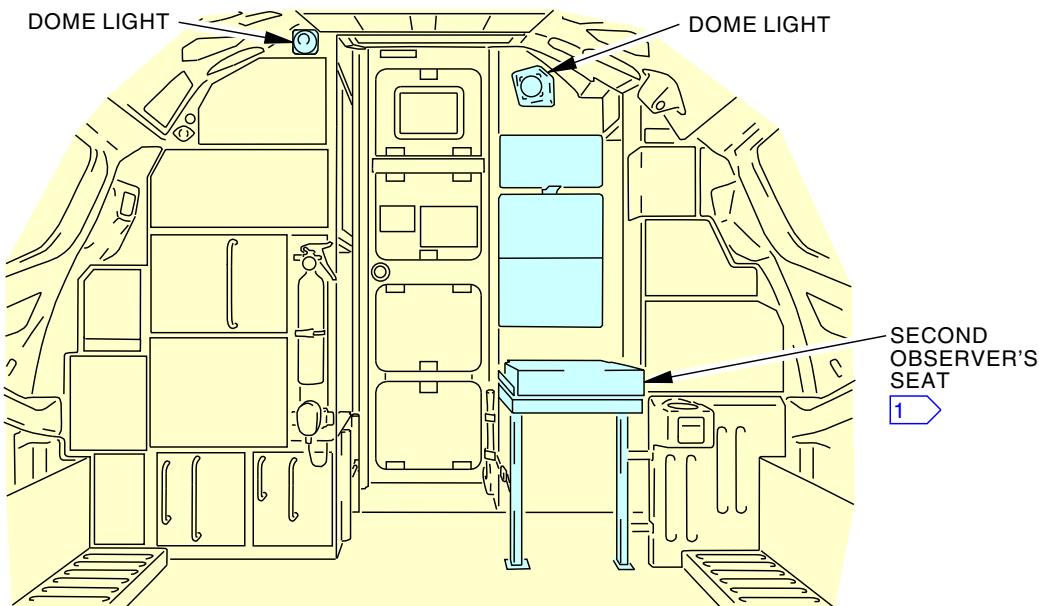
———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-14-00**



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AIRCRAFT MAINTENANCE MANUAL



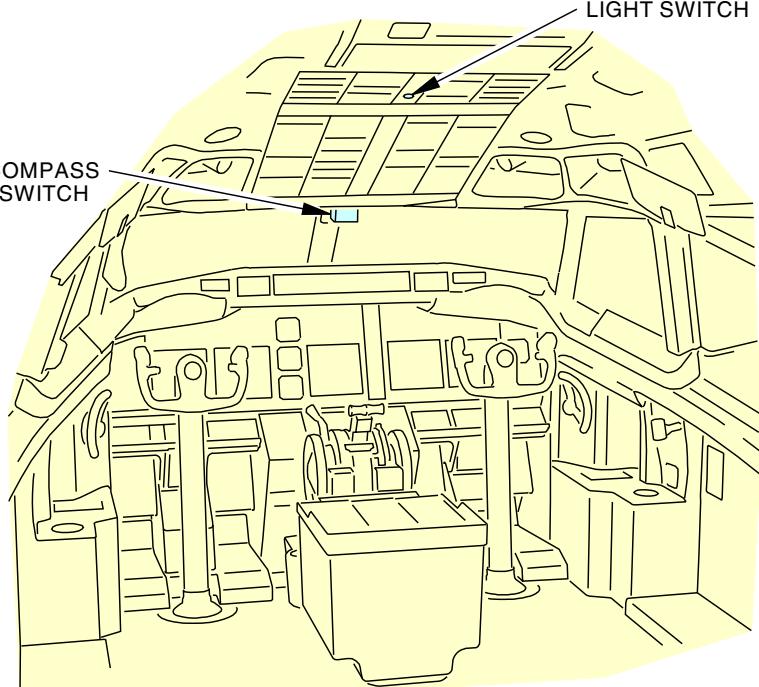
FLIGHT COMPARTMENT



STANDBY COMPASS  
LIGHT AND SWITCH



LIGHT SWITCH



1 AIRPLANES WITH THE SECOND  
OBSERVER'S SEAT.

FLIGHT COMPARTMENT

2383086 S0000545885\_V2

**Miscellaneous Lights**  
Figure 201/33-14-00-990-808 (Sheet 1 of 6)

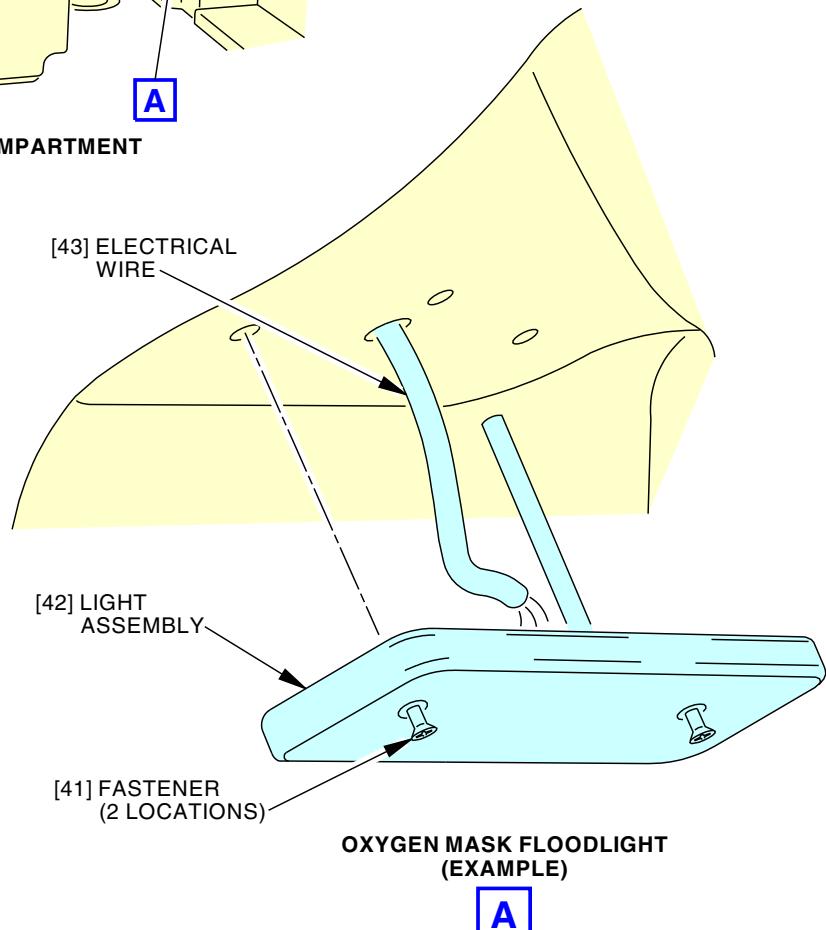
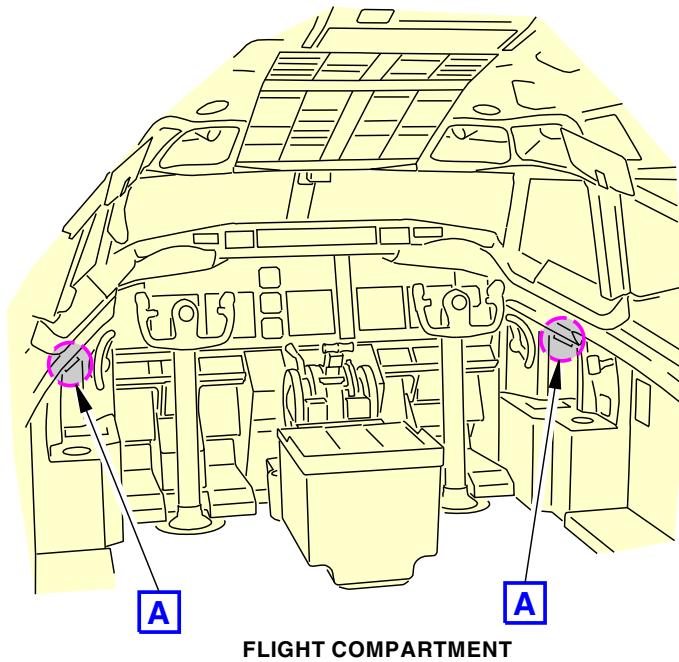
EFFECTIVITY  
LOM ALL

**33-14-00**

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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G12655 S0006575952\_V2

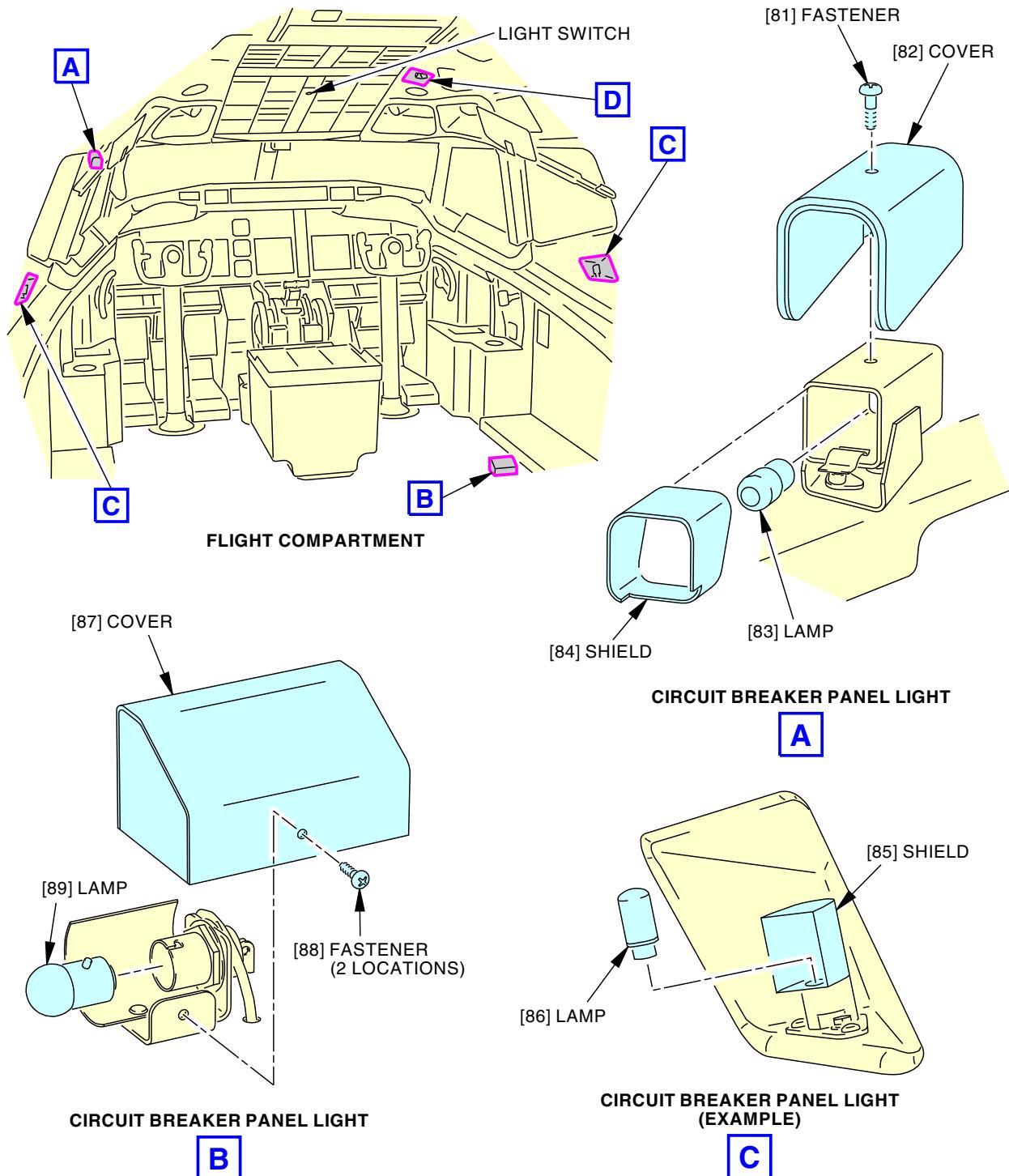
**Miscellaneous Lights**  
**Figure 201/33-14-00-990-808 (Sheet 2 of 6)**

EFFECTIVITY  
**LOM ALL**

**33-14-00**

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details



G13082 S0006575959\_V3

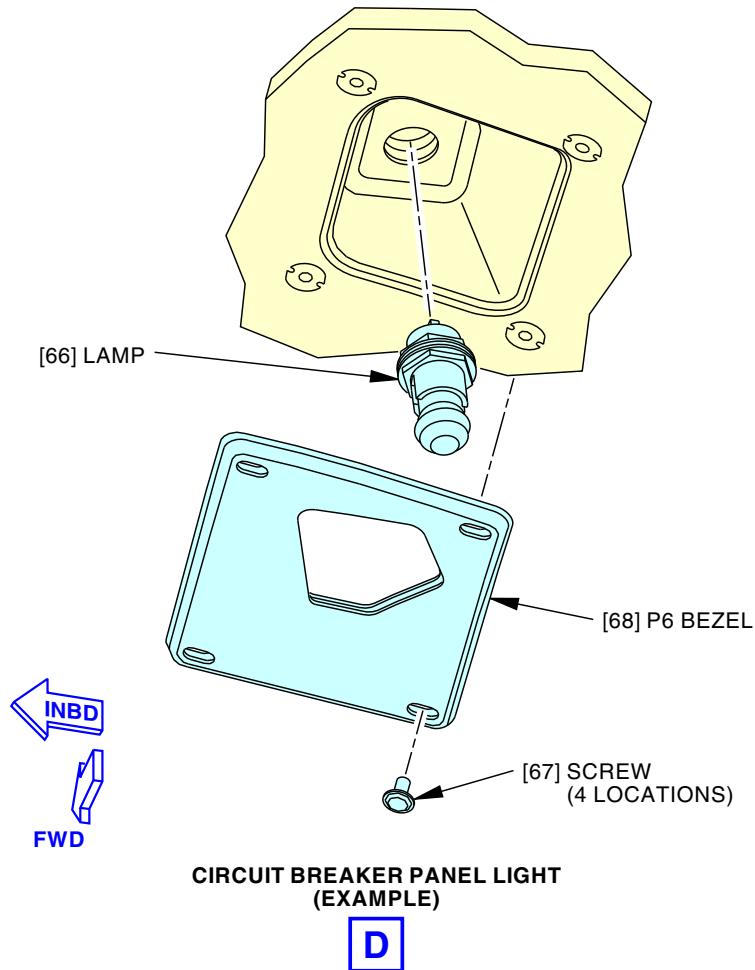
**Miscellaneous Lights**  
 Figure 201/33-14-00-990-808 (Sheet 3 of 6)

EFFECTIVITY  
 LOM ALL

**33-14-00**



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AIRCRAFT MAINTENANCE MANUAL



CIRCUIT BREAKER PANEL LIGHT  
(EXAMPLE)

D

2975439 S0000754302\_V1

Miscellaneous Lights  
Figure 201/33-14-00-990-808 (Sheet 4 of 6)

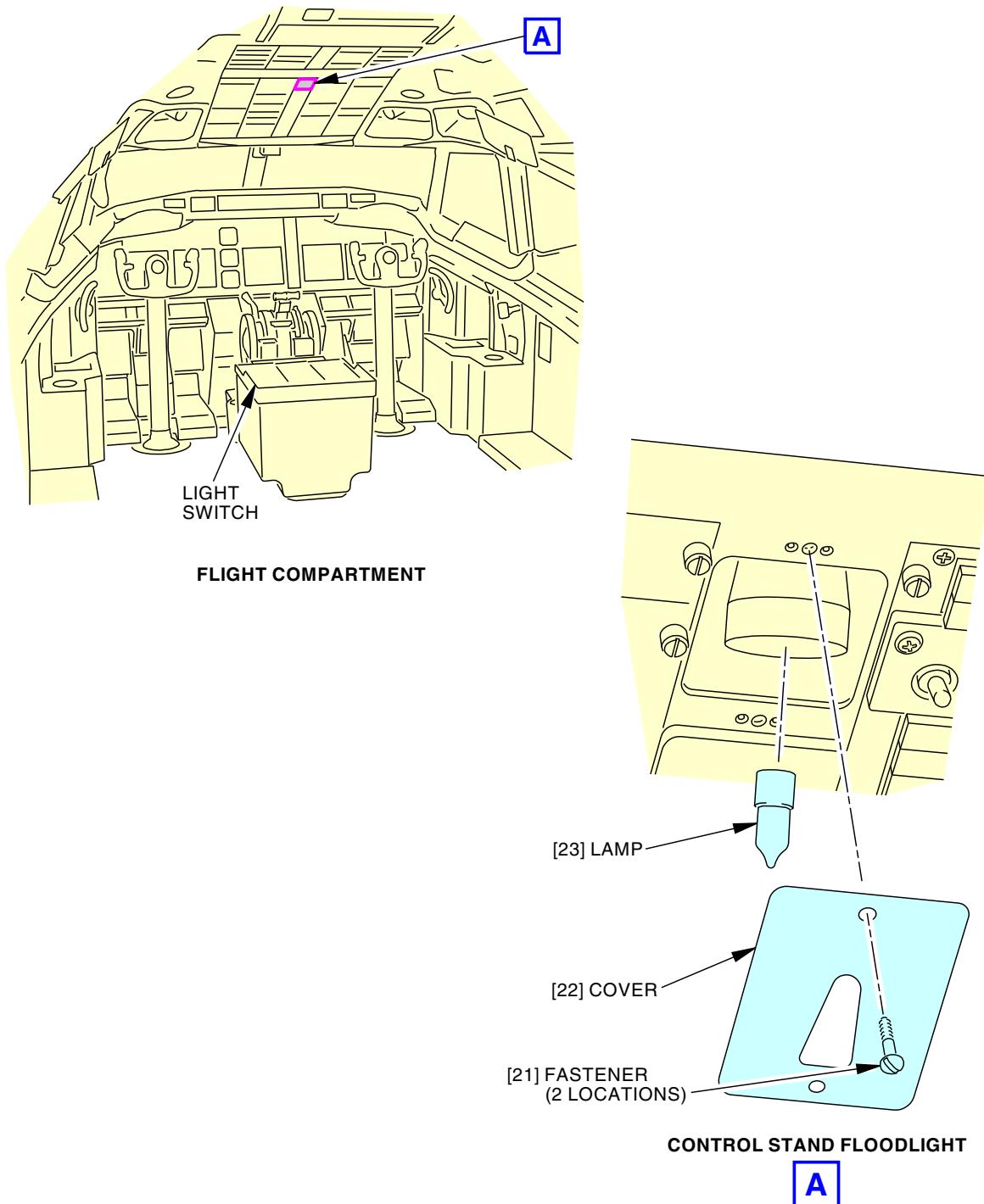
EFFECTIVITY  
LOM ALL

**33-14-00**

D633A101-LOM

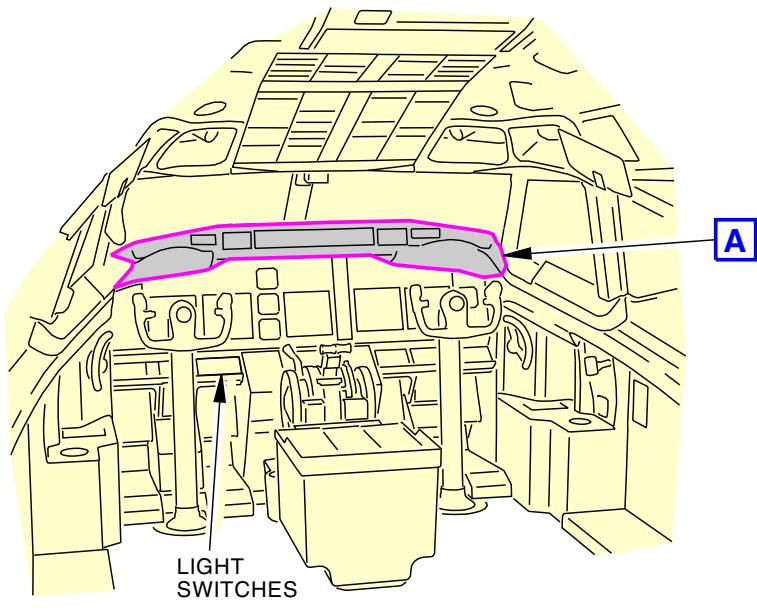
ECCN 9E991 BOEING PROPRIETARY - See title page for details

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Oct 15/2021

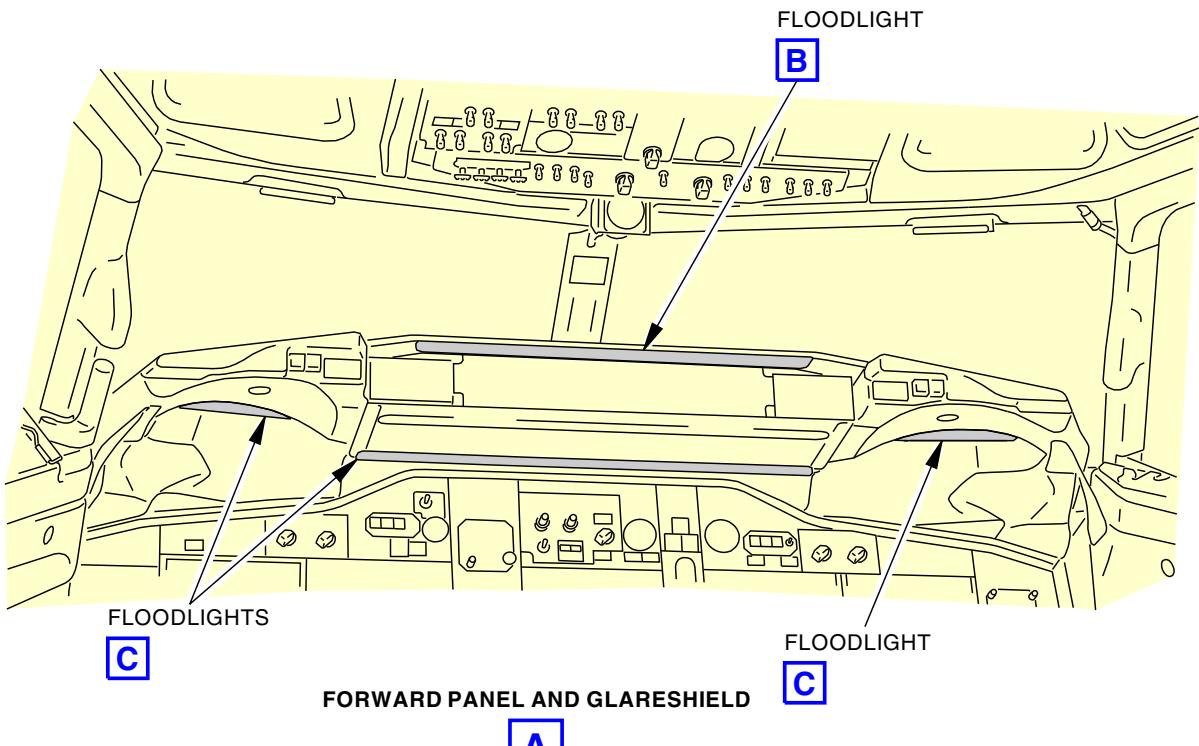

**CONTROL STAND FLOODLIGHT**
**A**

G12491 S0006575950\_V2

**Miscellaneous Lights**  
**Figure 201/33-14-00-990-808 (Sheet 5 of 6)**
**EFFECTIVITY**  
**LOM ALL**
**33-14-00**



FLIGHT COMPARTMENT



FORWARD PANEL AND GLARESHIELD



G12274 S0006575947\_V2

### Miscellaneous Lights

Figure 201/33-14-00-990-808 (Sheet 6 of 6)

EFFECTIVITY  
LOM ALL

**33-14-00**

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details



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AIRCRAFT MAINTENANCE MANUAL

**TASK 33-14-00-440-801**

**3. Miscellaneous Lights - Activation**

(Figure 201)

**A. General**

- (1) This procedure adds electrical power to the Miscellaneous Lights.

**B. Location Zones**

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

**C. Procedure**

SUBTASK 33-14-00-860-031

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

**F/O Electrical System Panel, P6-3**

Row	Col	Number	Name
A	8	C00283	CONTROL CABIN LIGHTING CONT STAND
A	11	C00751	CONT CABIN LIGHTING PANEL FLOOD CONT
A	12	C01425	CONT CABIN LIGHTING PANEL FLOOD STBY
A	14	C00161	CONTROL CABIN LIGHTING STBY COMPASS
A	15	C00282	CONTROL CABIN LIGHTING DOME WHITE
C	9	C00219	PANEL & INSTR CB PANEL
D	8	C00701	EMER PANEL LTG

— END OF TASK —

**TASK 33-14-00-960-801**

**4. Panel/Glareshield Floodlight - Light Assembly Replacement**

(Figure 202)

**A. General**

- (1) When you replace the light assembly, do not discard it. It is possible to replace its lamps in a shop.

**B. References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)

**C. Consumable Materials**

Reference	Description	Specification
A50006	Compound - Sealing, Thread-Locking, Anaerobic, Single-Component (100-200 In-Lbs)	MIL-S-46163 Type II Grade M

**D. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Light assembly	33-14-00-21-025	LOM ALL
5	Light assembly	33-14-00-21-015	LOM ALL
		33-14-00-21-020	LOM ALL

EFFECTIVITY  
LOM ALL

**33-14-00**



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AIRCRAFT MAINTENANCE MANUAL

(Continued)

AMM Item	Description	AIPC Reference	AIPC Effectivity
5 (cont.)		33-14-00-21-030	LOM ALL

**E. Location Zones**

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

**F. Procedure**

SUBTASK 33-14-00-860-001

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

**F/O Electrical System Panel, P6-3**

Row	Col	Number	Name
A	11	C00751	CONT CABIN LIGHTING PANEL FLOOD CONT
A	12	C01425	CONT CABIN LIGHTING PANEL FLOOD STBY

SUBTASK 33-14-00-960-001

- (2) Do these steps to replace the light assembly:

- (a) Loosen the fasteners [2] or fasteners [4].
- (b) Disconnect the electrical wire [3].
- (c) Replace the light assembly [1] or light assembly [5].
- (d) Connect the electrical wire [3].
- (e) Apply compound, A50006 to the thread of fasteners [2] or fasteners [4].
  - 1) Tighten the fasteners [2] or fasteners [4] to 8.00 in-lb (0.90 N·m).

SUBTASK 33-14-00-860-002

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

**F/O Electrical System Panel, P6-3**

Row	Col	Number	Name
A	11	C00751	CONT CABIN LIGHTING PANEL FLOOD CONT
A	12	C01425	CONT CABIN LIGHTING PANEL FLOOD STBY

SUBTASK 33-14-00-860-003

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

SUBTASK 33-14-00-710-001

- (5) Do a test of the new light assembly:

- (a) At the forward panel on the floodlight control module, P1-5, set the applicable switch for the floodlight to the bright mode.
  - 1) Make sure the light comes on brightly.
- (b) Set the switch to the dim mode.
  - 1) Make sure the light becomes dim.
- (c) Set the switch to the off mode.
  - 1) Make sure the goes off.
- (d) Set the switch to the usual mode.

EFFECTIVITY  
**LOM ALL**

**33-14-00**



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

SUBTASK 33-14-00-860-004

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

———— END OF TASK ————

— EFFECTIVITY —  
**LOM ALL**

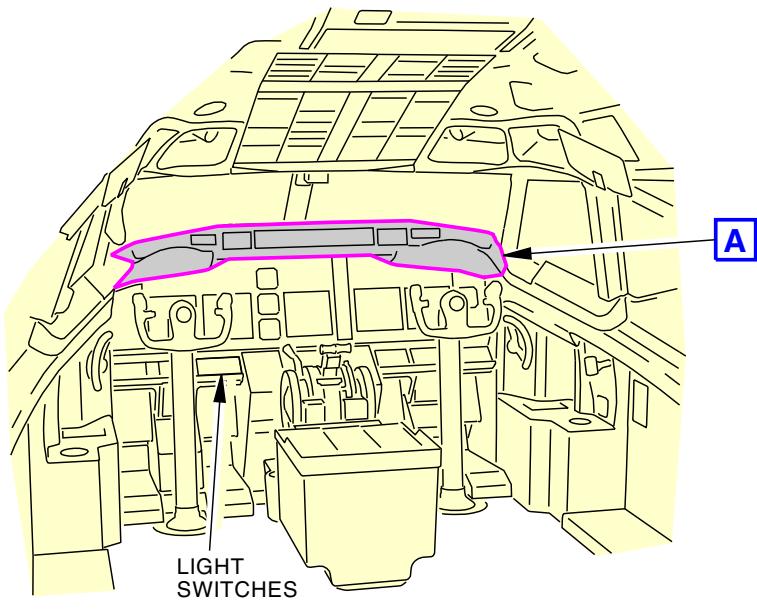
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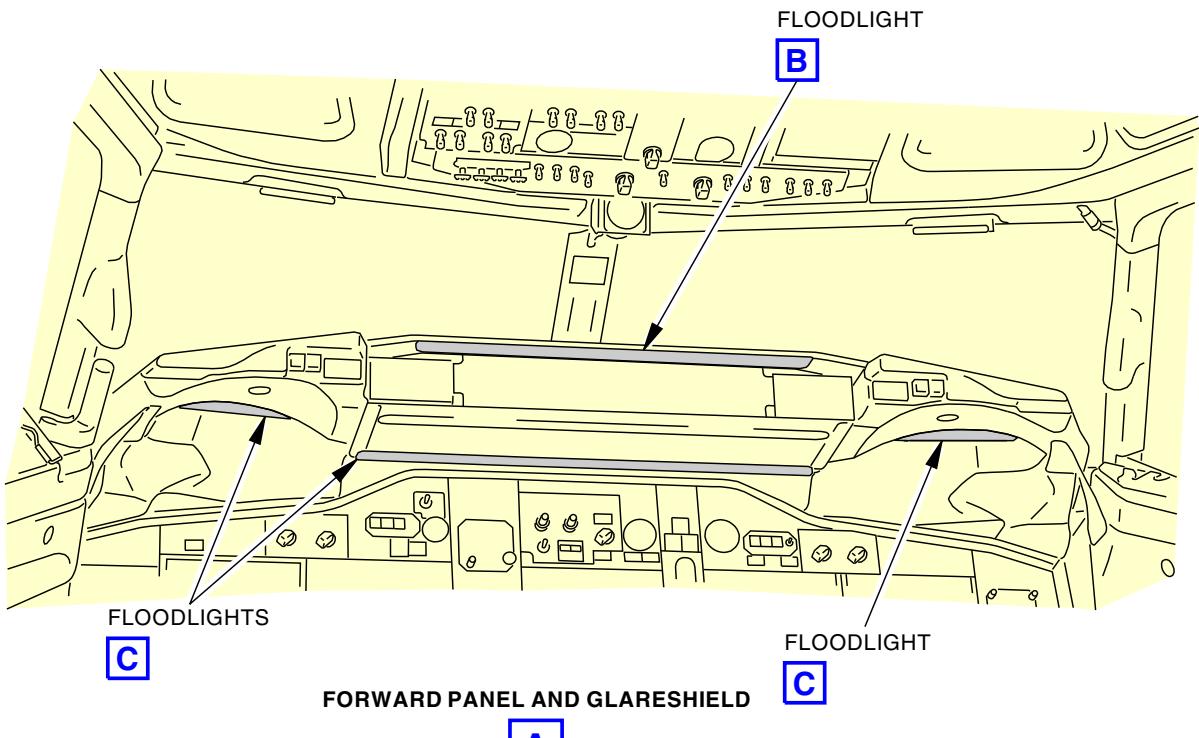
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AIRCRAFT MAINTENANCE MANUAL



FLIGHT COMPARTMENT



FORWARD PANEL AND GLARESHIELD



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Panel/Glareshield Floodlight - Light Assembly Replacement  
Figure 202/33-14-00-990-801 (Sheet 1 of 2)

EFFECTIVITY  
LOM ALL

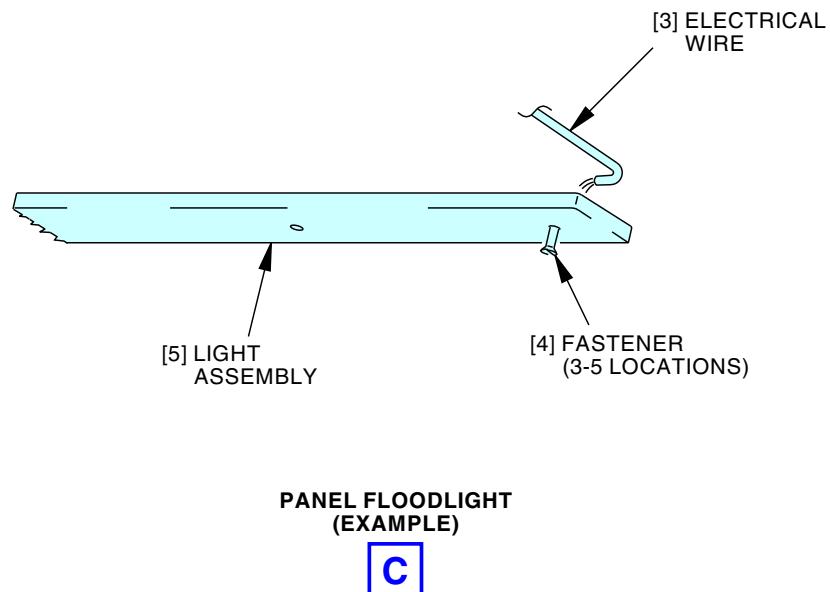
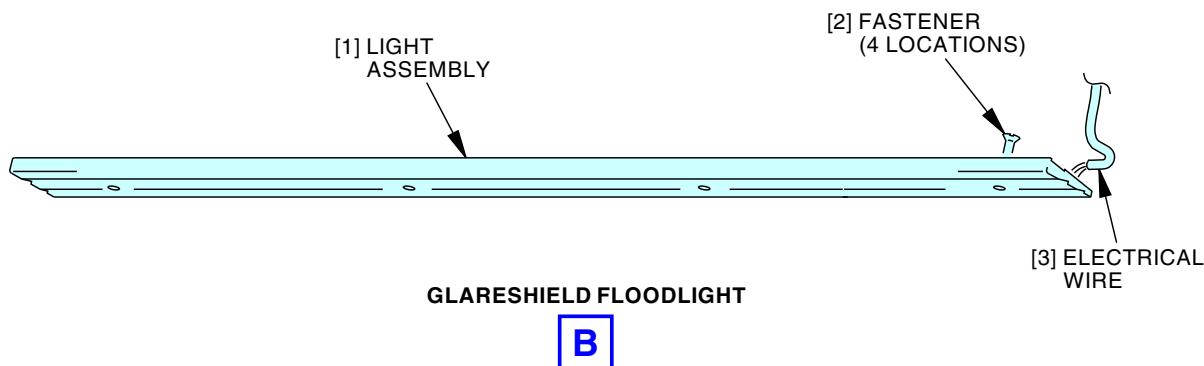
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ECCN 9E991 BOEING PROPRIETARY - See title page for details



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AIRCRAFT MAINTENANCE MANUAL



G12315 S0006575948\_V2

Panel/Glareshield Floodlight - Light Assembly Replacement  
Figure 202/33-14-00-990-801 (Sheet 2 of 2)

EFFECTIVITY  
LOM ALL

**33-14-00**

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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**TASK 33-14-00-960-802**

**5. Control Stand Floodlight - Lamp Replacement**

(Figure 203)

**A. References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)

**B. Tools/Equipment**

Reference	Description
STD-1176	Cover - Windshield Blackout Screen

**C. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
23	Lamp	33-14-00-06-045	LOM 402, 404, 406, 407
		33-14-00-40-050	LOM 411, 412, 415, 416, 420, 422-434, 437-447, 450-999

**D. Location Zones**

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

**E. Procedure**

SUBTASK 33-14-00-860-020

- (1) At the control stand on the lighting control module, P8-50, make sure the switch for the control stand floodlight is set to the off mode.

SUBTASK 33-14-00-960-002



DO NOT TOUCH THE SOCKET OR THE METAL END OF THE LAMP. WHEN ELECTRICAL POWER IS SUPPLIED TO THE LIGHT, ELECTRICAL SHOCK CAN OCCUR.

- (2) Do these steps to replace the lamp:

- (a) Loosen the fasteners [21].
- (b) Remove the cover [22].
- (c) Replace the lamp [23].
- (d) Install the cover [22].
- (e) Tighten the fasteners [21].

SUBTASK 33-14-00-860-005

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

SUBTASK 33-14-00-940-001

- (4) When the test is done during the day, put a windshield cover, STD-1176 on the windshield.

SUBTASK 33-14-00-710-002

- (5) Do a test of the new lamp:

- (a) At the P8-50 panel, set the switch for the control stand floodlight to the bright mode.

EFFECTIVITY  
LOM ALL

**33-14-00**



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

- 1) Make sure the lamp comes on brightly.
- (b) Set the switch to the dim mode.
  - 1) Make sure the light becomes dim.
- (c) Set the switch to the off mode.
  - 1) Make sure the light goes off.
- (d) Set the switch to the usual mode.

SUBTASK 33-14-00-940-002

- (6) If a windshield cover, STD-1176 was used on the windshield, remove it.

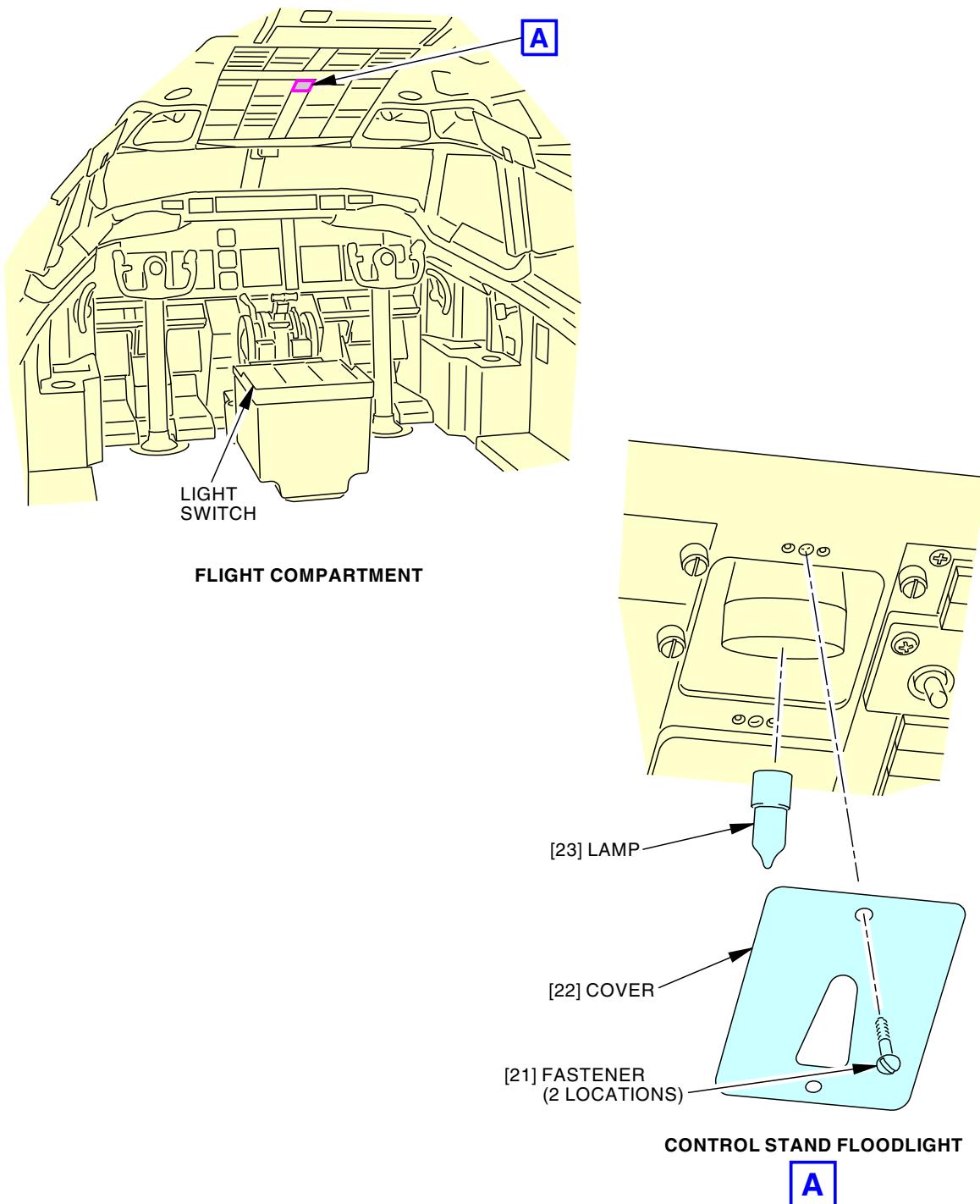
SUBTASK 33-14-00-860-006

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

———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-14-00**



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**Control Stand Floodlight - Lamp Replacement**  
**Figure 203/33-14-00-990-802**

 EFFECTIVITY  
 LOM ALL

**33-14-00**



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AIRCRAFT MAINTENANCE MANUAL

**TASK 33-14-00-960-807**

**6. Control Stand Floodlight - Light Assembly Replacement**

(Figure 204)

**A. General**

- (1) This task removes and installs the control stand floodlight light assembly, located on the P5 overhead panel.
- (2) When you replace the light assembly, do not discard it. Refer to vendor instructions for possible repairs.

**B. Tools/Equipment**

Reference	Description
STD-1176	Cover - Windshield Blackout Screen

**C. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
28	Light assembly	33-14-00-06-050	LOM 402, 404, 406, 407
		33-14-00-40-055	LOM 411, 412, 415, 416, 420, 422-434, 437-447, 450-999

**D. Location Zones**

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

**E. Prepare for the Replacement**

SUBTASK 33-14-00-860-028

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

**F/O Electrical System Panel, P6-3**

Row	Col	Number	Name
A	8	C00283	CONTROL CABIN LIGHTING CONT STAND

SUBTASK 33-14-00-010-002

- (2) Unlatch the P5 overhead panel and let the panel hinge down to the open position.

**F. Procedure**

SUBTASK 33-14-00-020-003

- (1) Disconnect the electrical wire [29].

SUBTASK 33-14-00-020-004

- (2) Loosen the screw [24], washer [25], washer [26] and nut [27] from the back of the light assembly [28] (two locations).

SUBTASK 33-14-00-960-008

- (3) Replace the light assembly [28].

SUBTASK 33-14-00-420-003

- (4) Tighten the screw [24], washer [25], washer [26] and nut [27] onto the back of the light assembly [28] (two locations).

SUBTASK 33-14-00-420-004

- (5) Connect the electrical wire [29].



**33-14-00**



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**AIRCRAFT MAINTENANCE MANUAL**

**G. Put the Airplane Back to Its Usual Condition**

SUBTASK 33-14-00-410-002

- (1) Push the P5 overhead panel up to the closed position and latch it.

SUBTASK 33-14-00-860-029

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

**F/O Electrical System Panel, P6-3**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	8	C00283	CONTROL CABIN LIGHTING CONT STAND

**H. Control Stand Floodlight Replacement Test**

SUBTASK 33-14-00-420-005

- (1) If the test is done during the day, put a windshield cover, STD-1176 on the windshield.

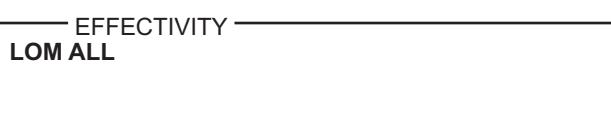
SUBTASK 33-14-00-710-010

- (2) Do these steps to test the new light assembly:
  - (a) At the P8-50 panel, set the switch for the control stand floodlight to the bright mode.
    - 1) Make sure that the lamp comes on brightly.
  - (b) Set the switch to the dim mode.
    - 1) Make sure that the light becomes dim.
  - (c) Set the switch to the OFF mode.
    - 1) Make sure that the light goes off.
  - (d) Set the switch to the usual mode.

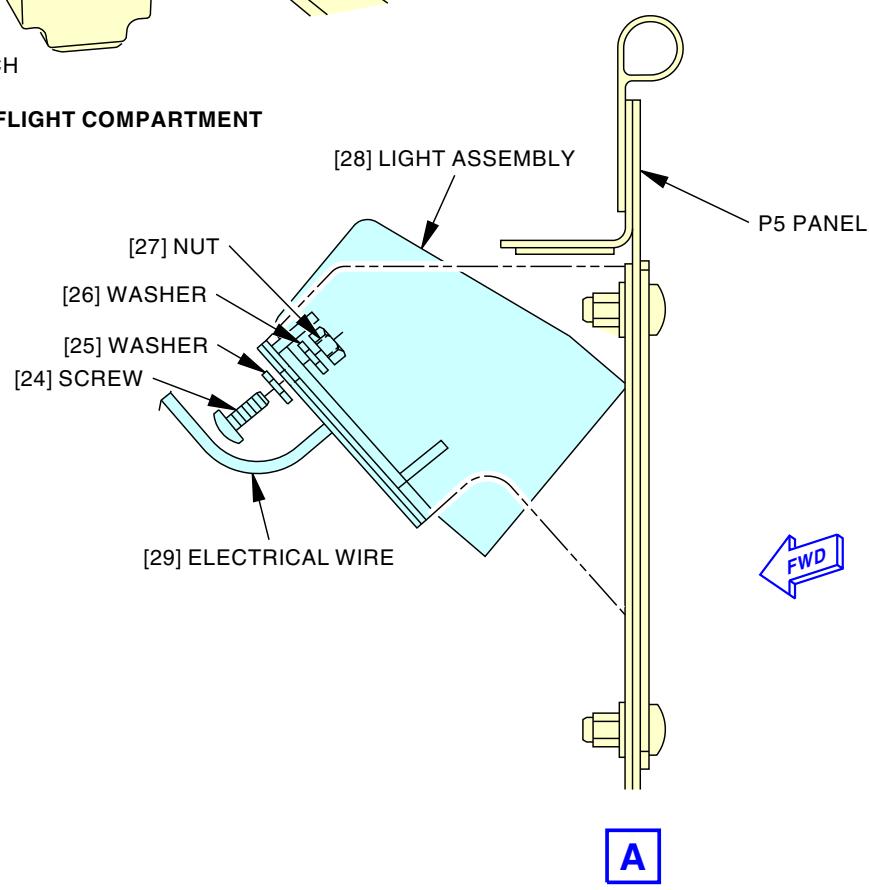
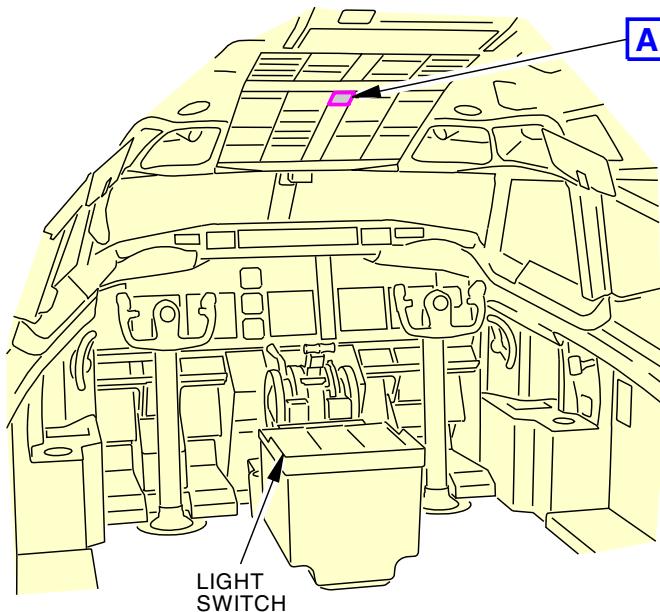
SUBTASK 33-14-00-020-005

- (3) If necessary, remove the windshield cover, STD-1176.

———— END OF TASK ————



**33-14-00**



**A**

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**Control Stand Floodlight - Light Assembly Replacement**  
**Figure 204/33-14-00-990-807**

EFFECTIVITY  
**LOM ALL**

**33-14-00**



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**TASK 33-14-00-960-803**

**7. Oxygen Mask Floodlight - Light Assembly Replacement**

(Figure 205)

**A. References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)

**B. Tools/Equipment**

Reference	Description
STD-1176	Cover - Windshield Blackout Screen

**C. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
42	Light assembly	33-14-51-08-010	LOM ALL

**D. Location Zones**

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

**E. Procedure**

SUBTASK 33-14-00-860-007

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

**F/O Electrical System Panel, P6-3**

Row	Col	Number	Name
D	8	C00701	EMER PANEL LTG

SUBTASK 33-14-00-960-003

- (2) Do these steps to replace the light assembly:

- (a) Loosen the fasteners [41].
- (b) Disconnect the electrical wire [43].
- (c) Replace the light assembly [42].
- (d) Connect the electrical wire [43].
- (e) Tighten the fasteners [41].

SUBTASK 33-14-00-860-008

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

SUBTASK 33-14-00-940-003

- (4) When the test is done during the day, put a windshield cover, STD-1176 on the windshield.

SUBTASK 33-14-00-710-003

- (5) Do a test of the new light assembly:

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

**F/O Electrical System Panel, P6-3**

Row	Col	Number	Name
D	8	C00701	EMER PANEL LTG

EFFECTIVITY  
**LOM ALL**

**33-14-00**



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

- 1) Make sure the light comes on.

NOTE: The light will be very dim.

- (b) Open this circuit breaker:

**F/O Electrical System Panel, P6-3**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	8	C00701	EMER PANEL LTG

- 1) Make sure the light goes off.

- (c) Close this circuit breaker:

**F/O Electrical System Panel, P6-3**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	8	C00701	EMER PANEL LTG

SUBTASK 33-14-00-940-004

- (6) If a windshield cover, STD-1176 was used on the windshield, remove it.

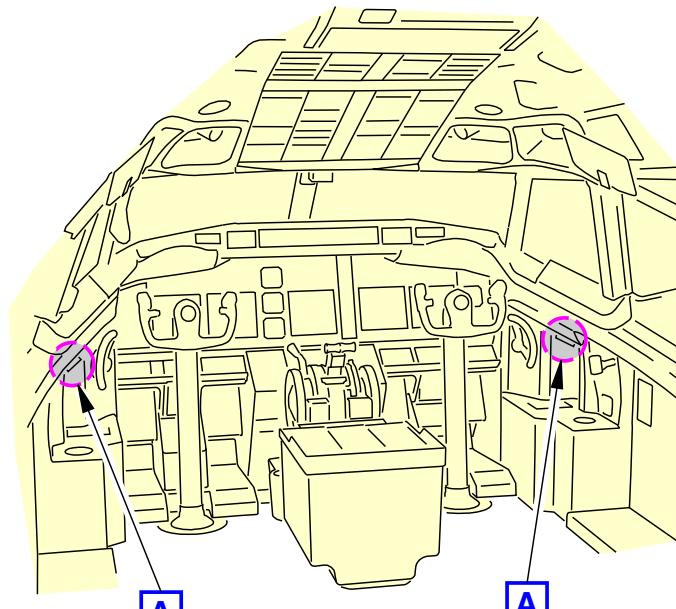
SUBTASK 33-14-00-860-009

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

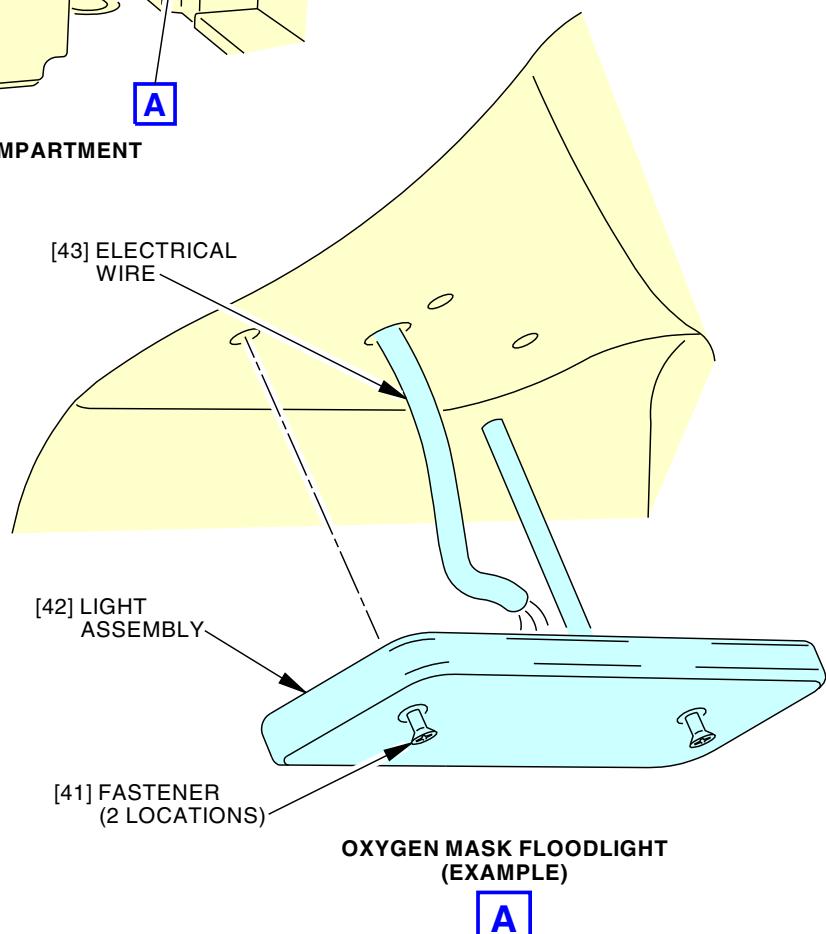
———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-14-00**



FLIGHT COMPARTMENT

OXYGEN MASK FLOODLIGHT  
(EXAMPLE)

A

G12655 S0006575952\_V2

**Oxygen Mask Floodlight - Light Assembly Replacement**  
Figure 205/33-14-00-990-803EFFECTIVITY  
LOM ALL**33-14-00**

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ECCN 9E991 BOEING PROPRIETARY - See title page for details



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AIRCRAFT MAINTENANCE MANUAL

**TASK 33-14-00-960-804**

**8. Dome Light - Lamp Replacement**

(Figure 206)

**A. References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)

**B. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
62	Lamp	33-17-00-03-025	LOM ALL
63	Secondary lamp	33-17-00-02-065	LOM ALL
64	Lamp	33-17-00-02-070	LOM ALL

**C. Location Zones**

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

**D. Procedure**

SUBTASK 33-14-00-860-021

- (1) On the overhead panel, P5, make sure the switch for the dome lights is set to the off mode.

SUBTASK 33-14-00-960-004



**WARNING** DO NOT TOUCH THE SOCKET OR THE METAL END OF THE LAMP. WHEN ELECTRICAL POWER IS SUPPLIED TO THE LIGHT, ELECTRICAL SHOCK CAN OCCUR.

- (2) Do these steps to remove the lamp:

- Remove the lens [61] or lens [65].
- Remove the dome light lamp [62] or lamp [64].

**NOTE:** The secondary lamp [63] installed in some light assemblies is connected to the emergency lighting system.

SUBTASK 33-14-00-960-005



**WARNING** DO NOT TOUCH THE SOCKET OR THE METAL END OF THE LAMP. WHEN ELECTRICAL POWER IS SUPPLIED TO THE LIGHT, ELECTRICAL SHOCK CAN OCCUR.

- (3) Do these steps to install the lamp:

- Install the dome light lamp [62] or lamp [64].
- Install the lens [61] or lens [65].

SUBTASK 33-14-00-860-010

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

SUBTASK 33-14-00-710-004

- (5) Do a test of the new lamp:

- On the P5 panel, set the switch for the dome lights to the bright mode.

EFFECTIVITY  
**LOM ALL**

**33-14-00**

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**737-600/700/800/900**  
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- 1) Make sure the light comes on brightly.
  - (b) Set the switch to the dim mode.
    - 1) Make sure the intensity of the light becomes dim.
  - (c) Set the switch to the off mode.
    - 1) Make sure the light goes off.
  - (d) Set the switch to the usual mode.
- SUBTASK 33-14-00-860-011
- (6) Do this task: Remove Electrical Power, TASK 24-22-00-860-812.

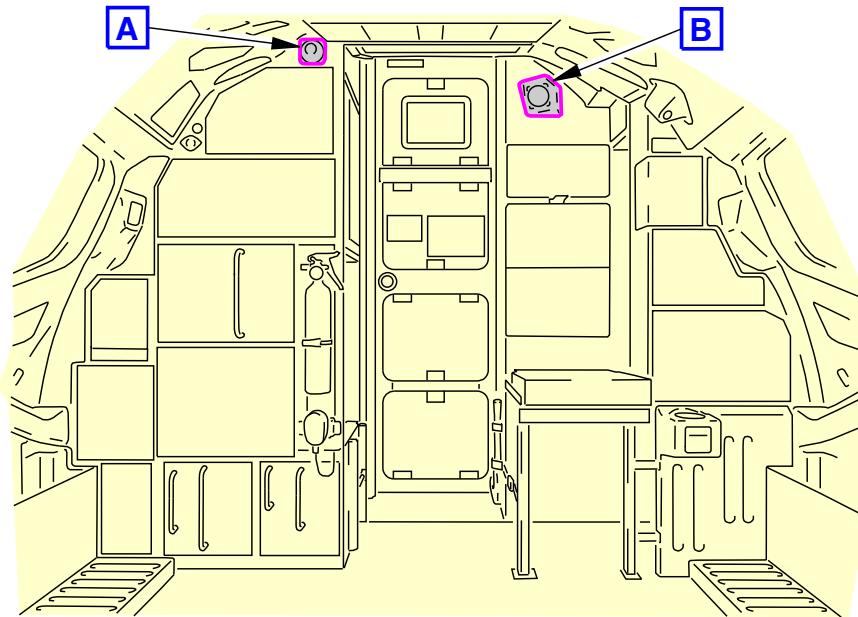
———— END OF TASK ————

EFFECTIVITY  
LOM ALL

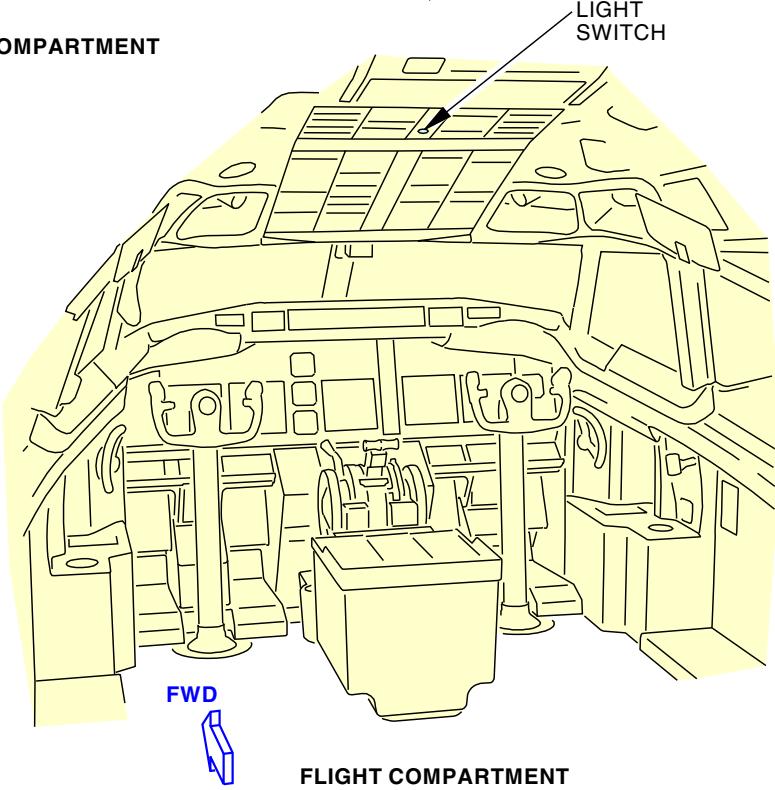
**33-14-00**



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AIRCRAFT MAINTENANCE MANUAL



FLIGHT COMPARTMENT



FLIGHT COMPARTMENT

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Dome Light - Lamp Replacement  
Figure 206/33-14-00-990-804 (Sheet 1 of 2)

EFFECTIVITY  
LOM ALL

**33-14-00**

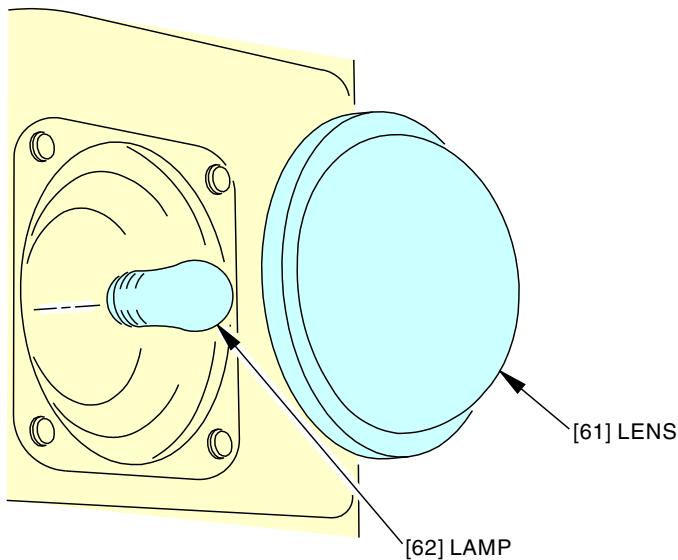
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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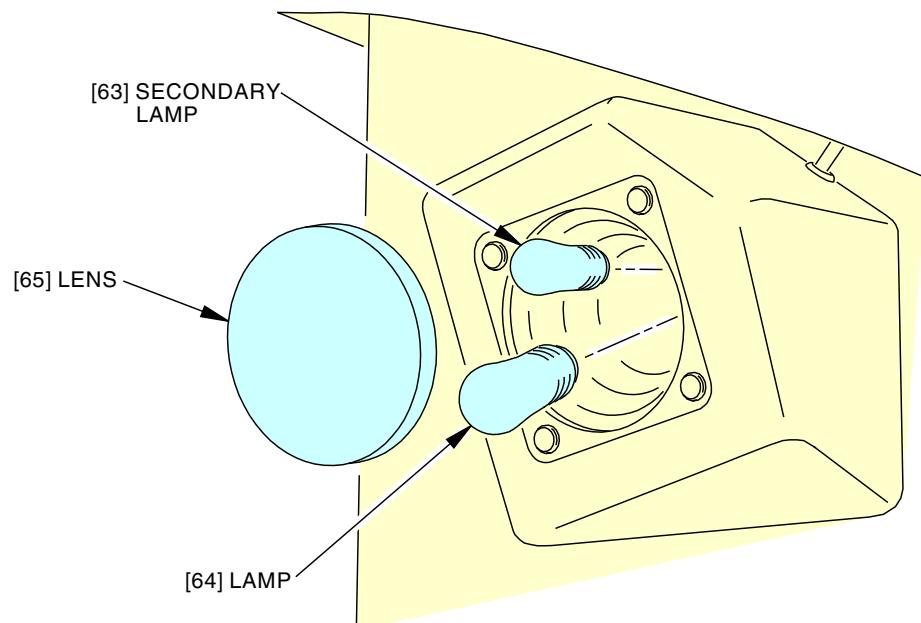


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AIRCRAFT MAINTENANCE MANUAL



DOME LIGHT ASSEMBLY

A



DOME LIGHT ASSEMBLY

B

G13419 S0006575955\_V2

**Dome Light - Lamp Replacement**  
Figure 206/33-14-00-990-804 (Sheet 2 of 2)

EFFECTIVITY  
LOM ALL

**33-14-00**

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

**TASK 33-14-00-000-801**

**9. Left Dome Light - Removal**

**A. Location Zones**

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

**B. Procedure**

**NOTE:** The left dome light assembly includes two lamps. The 28 VDC battery bus supplies electrical power to the larger lamp. An emergency lights battery pack supplies electrical power to the smaller, secondary lamp.

SUBTASK 33-14-00-860-023

- (1) On the overhead panel, P5, make sure the switch for the emergency lights is set to the off mode.

SUBTASK 33-14-00-860-024

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

**F/O Electrical System Panel, P6-3**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
A	15	C00282	CONTROL CABIN LIGHTING DOME WHITE

SUBTASK 33-14-00-020-001

- (3) Do these steps to remove the light assembly:
  - (a) Remove the screws that hold the light assembly to the shroud and bracket.
  - (b) Pull out the light assembly.
  - (c) Disconnect the electrical wires from the back of the light assembly.
    - 1) Make a note of the wiring for aid during installation of the dome light.

SUBTASK 33-14-00-020-002

- (4) Do these steps to remove the bracket and shroud:
  - (a) Reach inside the shroud.
  - (b) Remove the screws on the bracket.
  - (c) Pull the wire bundle from the shroud.
  - (d) Lift off the bracket and the shroud.

———— END OF TASK ————

**TASK 33-14-00-400-801**

**10. Left Dome Light - Installation**

**A. References**

<b>Reference</b>	<b>Title</b>
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
WDM 33-14-12	Wiring Diagram Manual
WDM 33-51-12	Wiring Diagram Manual

EFFECTIVITY  
LOM ALL

**33-14-00**



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**B. Location Zones**

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

**C. Procedure**

SUBTASK 33-14-00-420-001

- (1) Do these steps to install the bracket and shroud:
  - (a) Put the wire bundle through the hole in the shroud.
  - (b) Put the bracket and the shroud in their position against the wall.
  - (c) Reach inside the shroud.
  - (d) Install the screws on the bracket.

SUBTASK 33-14-00-420-002

- (2) Do these steps to install the light assembly:
  - (a) Connect the electrical wires to the back of the light assembly.
    - 1) Make sure the electrical wires are connected correctly (WDM 33-14-12) (WDM 33-51-12).
  - (b) Put the light assembly in the shroud opening.
  - (c) Install the screws that hold the light assembly in its position.

SUBTASK 33-14-00-860-025

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

**F/O Electrical System Panel, P6-3**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
A	15	C00282	CONTROL CABIN LIGHTING DOME WHITE

SUBTASK 33-14-00-860-026

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

SUBTASK 33-14-00-710-008

- (5) Do a test of the dome light (larger) lamp:
  - (a) On the P5 panel, set the switch for the dome lights to the bright mode.
    - 1) Make sure the lamp comes on brightly.
  - (b) Set the switch to the dim mode.
    - 1) Make sure the intensity of the light becomes dim.
  - (c) Set the switch to the off mode.
    - 1) Make sure the lamp goes off.

SUBTASK 33-14-00-710-009

- (6) Do a test of the emergency dome light (smaller, secondary) lamp:
  - (a) On the P5 panel, set the switch for the emergency lights to the on mode.  
**NOTE:** The emergency lights are energized by the power supplies. Use the lights for a minimum time to do this test.
    - 1) Make sure the secondary lamp comes on.
  - (b) Set the switch for the emergency lights to the off mode.
    - 1) Make sure the secondary lamp goes off.

EFFECTIVITY  
LOM ALL

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**AIRCRAFT MAINTENANCE MANUAL**

- 2) Make sure all emergency lights go off (WDM 33-51-11 thru 33-51-21).

SUBTASK 33-14-00-860-027

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

———— END OF TASK ————

**TASK 33-14-00-960-805**

**11. Circuit Breaker Panel Light - Lamp Replacement**

(Figure 207)

**A. References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)

**B. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
66	Lamp	33-17-00-05-015	LOM ALL
83	Lamp	33-14-00-03-105	LOM 402, 404, 406, 407, 411, 412, 415
		33-14-00-03-245	LOM 416, 420, 422-433
		33-14-00-03-365	LOM 434, 437-447, 450-999
86	Lamp	33-14-00-04-090	LOM ALL
89	Lamp	33-14-00-05-195	LOM ALL

**C. Location Zones**

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

**D. Procedure**

SUBTASK 33-14-00-860-022

- (1) On the overhead panel, P5, adjacent to the control stand floodlight, make sure the switch for the circuit breaker panel lights is set to the off mode.

SUBTASK 33-14-00-960-009

- (2) Do these steps to replace the lamp [83]:
- Loosen the fastener [81] fully.
  - Remove the cover [82] from the structure.
  - Remove the shield [84] from the structure.



**WARNING** DO NOT TOUCH THE SOCKET OR THE METAL END OF THE LAMP.  
WHEN ELECTRICAL POWER IS SUPPLIED TO THE LAMP, ELECTRICAL  
SHOCK CAN OCCUR. THIS CAN CAUSE INJURIES TO PERSONNEL.

- Remove the lamp [83] and discard it.
- Install the new lamp [83].
- Install the shield [84] to the structure.

———— EFFECTIVITY ————  
**LOM ALL**

**33-14-00**



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

- (g) Install the cover [82] to the structure.
- (h) Tighten the fastener [81].

SUBTASK 33-14-00-960-010

- (3) Do these steps to replace the lamp [89]:
  - (a) Loosen the fastener [88] fully.
  - (b) Remove the cover [87] from the structure.



**WARNING** DO NOT TOUCH THE SOCKET OR THE METAL END OF THE LAMP.  
WHEN ELECTRICAL POWER IS SUPPLIED TO THE LAMP, ELECTRICAL  
SHOCK CAN OCCUR. THIS CAN CAUSE INJURIES TO PERSONNEL.

- (c) Remove the lamp [89] and discard it.
- (d) Install the new lamp [89].
- (e) Install the cover [87] to the structure.
- (f) Tighten the fastener [88].

SUBTASK 33-14-00-960-011

- (4) Do these steps to replace the lamp [86]:
  - (a) Remove the shield [85] from the structure.



**WARNING** DO NOT TOUCH THE SOCKET OR THE METAL END OF THE LAMP.  
WHEN ELECTRICAL POWER IS SUPPLIED TO THE LAMP, ELECTRICAL  
SHOCK CAN OCCUR. THIS CAN CAUSE INJURIES TO PERSONNEL.

- (b) Remove the lamp [86] and discard it.
- (c) Install the new lamp [86].
- (d) Install the shield [85] to the structure.

SUBTASK 33-14-00-960-012

- (5) Do these steps to replace the lamp [66] (Figure 207):
  - (a) Remove the screws [67] from the P6 bezel [68].
  - (b) Remove the P6 bezel [68] from the structure.



**WARNING** DO NOT TOUCH THE SOCKET OR THE METAL END OF THE LAMP.  
WHEN ELECTRICAL POWER IS SUPPLIED TO THE LAMP, ELECTRICAL  
SHOCK CAN OCCUR. THIS CAN CAUSE INJURIES TO PERSONNEL.

- (c) Remove the lamp [66] and discard it.
- (d) Install the new lamp [66].
- (e) Install the P6 bezel [68] with the screws [67].

1) Torque the screws [67] to 10 in-lb (1.1 N·m) - 15 in-lb (1.7 N·m) maximum.

SUBTASK 33-14-00-860-012

- (6) If necessary, do this task: Supply Electrical Power, TASK 24-22-00-860-811.

SUBTASK 33-14-00-710-005

- (7) Do a test of the new lamp:
  - (a) At the P5 panel, set the switch for the circuit breaker panel lights to the bright mode.

EFFECTIVITY  
LOM ALL

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**AIRCRAFT MAINTENANCE MANUAL**

- 1) Make sure the light comes on brightly.
- (b) Set the switch to the dim mode.
  - 1) Make sure the light becomes dim.
- (c) Set the switch to the off mode.
  - 1) Make sure the light goes off.
- (d) Set the switch to the usual mode.

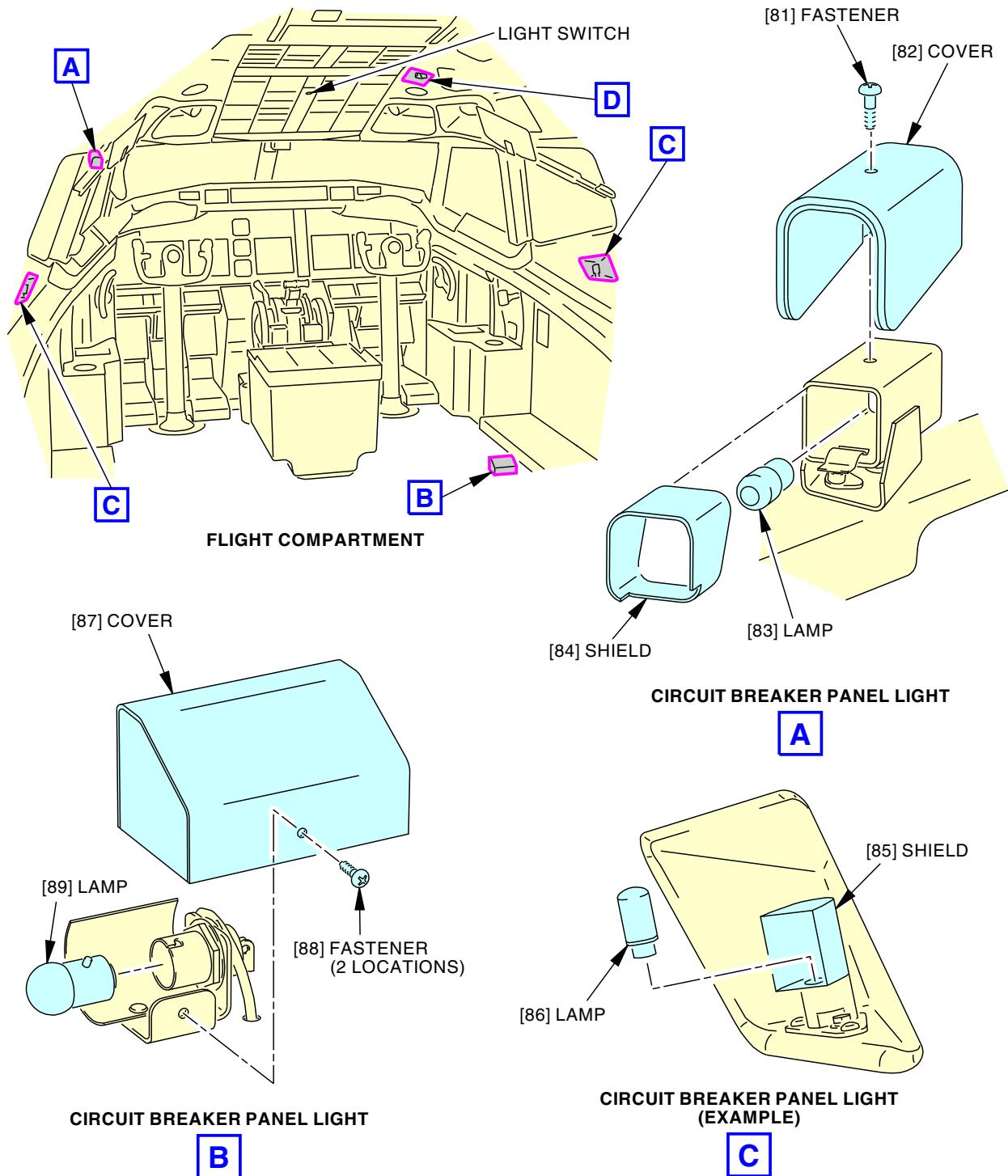
SUBTASK 33-14-00-860-013

- (8) If necessary, do this task: Remove Electrical Power, TASK 24-22-00-860-812.

———— END OF TASK ————

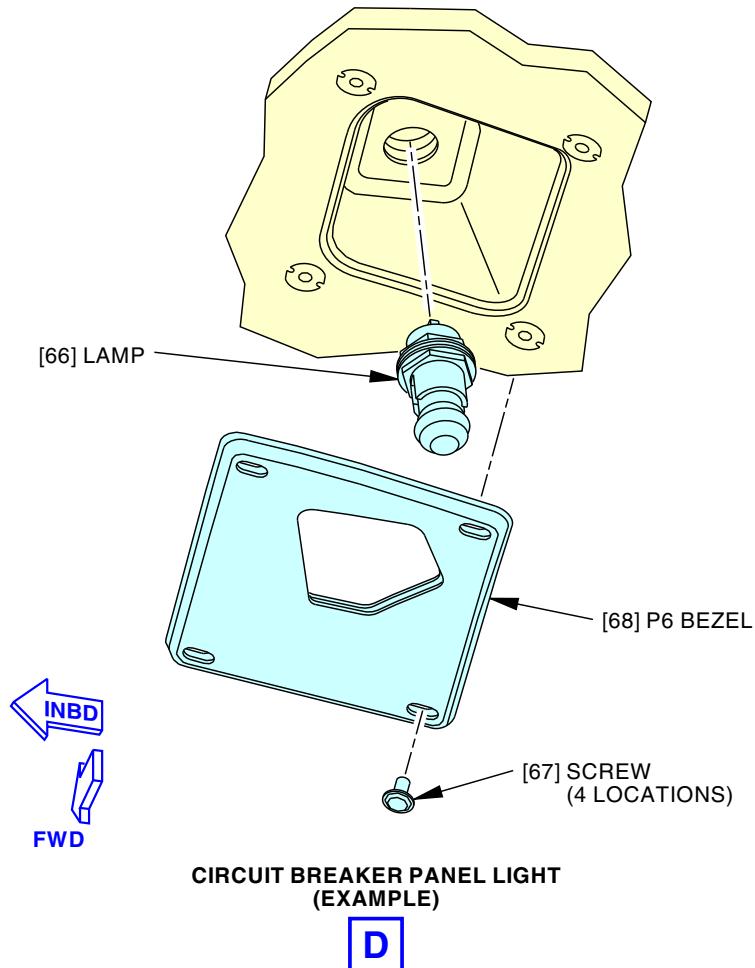
EFFECTIVITY  
LOM ALL

**33-14-00**


**Circuit Breaker Panel Light - Lamp Replacement**  
**Figure 207/33-14-00-990-805 (Sheet 1 of 2)**
**33-14-00**



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CIRCUIT BREAKER PANEL LIGHT  
(EXAMPLE)

D

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Circuit Breaker Panel Light - Lamp Replacement  
Figure 207/33-14-00-990-805 (Sheet 2 of 2)

EFFECTIVITY  
LOM ALL

**33-14-00**

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**AIRCRAFT MAINTENANCE MANUAL**

**TASK 33-14-00-960-806**

**12. Dimmer Control Unit - Replacement**

(Figure 208)

**A. References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
34-61-01-000-802	FMCS Control Display Unit (CDU) Removal (P/B 401)
34-61-01-400-802	FMCS Control Display Unit (CDU) - Installation (P/B 401)

**B. Location Zones**

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

**C. Procedure**

SUBTASK 33-14-00-010-001

- (1) Do this task: FMCS Control Display Unit (CDU) Removal, TASK 34-61-01-000-802.

SUBTASK 33-14-00-860-014

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

**F/O Electrical System Panel, P6-3**

Row	Col	Number	Name
A	11	C00751	CONT CABIN LIGHTING PANEL FLOOD CONT
A	12	C01425	CONT CABIN LIGHTING PANEL FLOOD STBY

SUBTASK 33-14-00-960-007

- (3) Do these steps to replace the dimmer control unit:

- (a) Loosen the fasteners [101] on the mounting plate for access to the dimmer control unit.
- (b) Pull out the mounting plate along with the dimmer control unit.
- (c) Disconnect the electrical connector [102].
- (d) Loosen the fasteners [104] that hold the dimmer control to the mounting plate [105].
- (e) Replace the dimmer control unit [103].
- (f) Tighten the fasteners [104].
- (g) Connect the electrical connector [102].
- (h) Put the dimmer control unit and mounting plate [105] back in their position.
- (i) Install the fasteners [101].

SUBTASK 33-14-00-860-015

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

**F/O Electrical System Panel, P6-3**

Row	Col	Number	Name
A	11	C00751	CONT CABIN LIGHTING PANEL FLOOD CONT
A	12	C01425	CONT CABIN LIGHTING PANEL FLOOD STBY

SUBTASK 33-14-00-860-016

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

EFFECTIVITY
LOM ALL

**33-14-00**



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SUBTASK 33-14-00-710-006

- (6) Do a test of the new dimmer control unit:
  - (a) At the forward panel on the floodlight control module, P1-5, set the switch for the applicable floodlights to the bright mode.
    - 1) Make sure the light comes on brightly.
  - (b) Set the switch to the dim mode.
    - 1) Make sure the light becomes dim.
  - (c) Set the switch to the off mode.
    - 1) Make sure the light goes off.
  - (d) Set the switch to the usual mode.

SUBTASK 33-14-00-410-001

- (7) Do this task: FMCS Control Display Unit (CDU) - Installation, TASK 34-61-01-400-802.

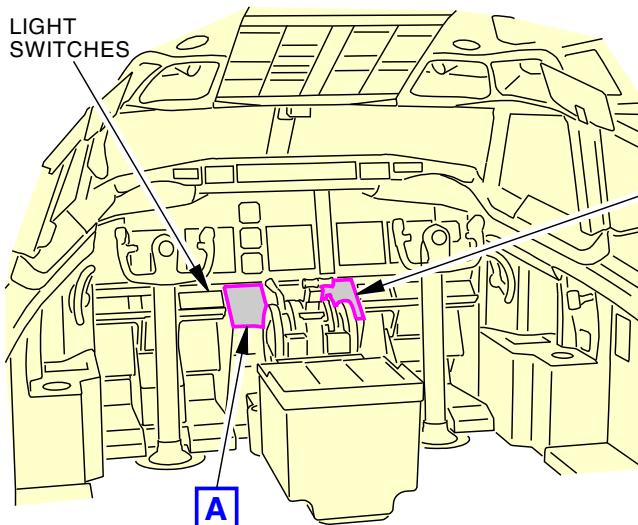
SUBTASK 33-14-00-860-017

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

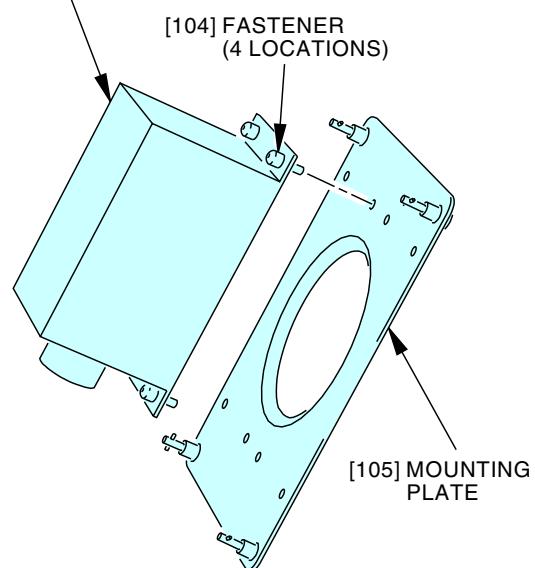
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EFFECTIVITY  
LOM ALL

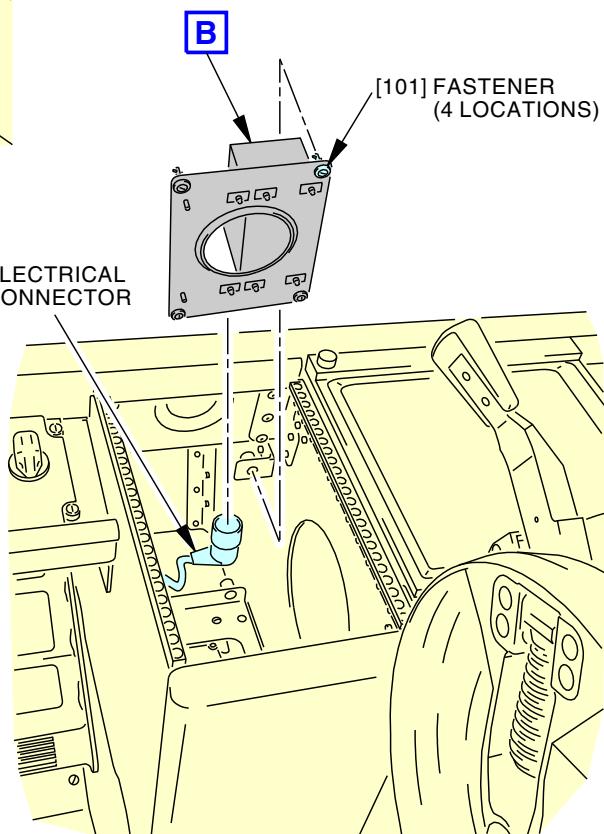
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**FLIGHT COMPARTMENT**

[103] DIMMER CONTROL UNIT  
(1 TO 2 LOCATIONS ON  
EACH SIDE)


**DIMMER CONTROL  
UNIT  
(EXAMPLE)**
**B**

[102] ELECTRICAL  
CONNECTOR



**FORWARD ELECTRONICS PANEL  
(LEFT SIDE IS SHOWN,  
RIGHT SIDE IS OPPOSITE)**

**A**

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**Dimmer Control Unit - Replacement  
Figure 208/33-14-00-990-806**

EFFECTIVITY  
LOM ALL

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TASK 33-14-00-710-801

13. Panel Floodlights - Operational Test of the Standby Relay

A. References

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)

B. Location Zones

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

C. Procedure

SUBTASK 33-14-00-860-018

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

SUBTASK 33-14-00-710-007

- (2) Do a test of the standby relay for the panel floodlights:

NOTE: When you open the circuit breaker, you simulate the standby mode.

- (a) At the forward panel on the floodlight control module, P1-5, set the switch for the main panel floodlights to the bright mode.
- 1) Make sure the panel floodlights come on brightly.
- (b) Open this circuit breaker and install safety tag:

F/O Electrical System Panel, P6-3

Row	Col	Number	Name
A	11	C00751	CONT CABIN LIGHTING PANEL FLOOD CONT

- 1) Make sure the panel floodlights become dim.

- (c) Set the switch to the off or dim mode.
- 1) Make sure the switch has no effect of the panel floodlights.
- (d) Remove the safety tag and close this circuit breaker:

F/O Electrical System Panel, P6-3

Row	Col	Number	Name
A	11	C00751	CONT CABIN LIGHTING PANEL FLOOD CONT

- (e) Set the switch to the usual mode.

SUBTASK 33-14-00-860-019

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

———— END OF TASK ————

EFFECTIVITY  
LOM ALL

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FLIGHT CREW LIGHTS - MAINTENANCE PRACTICES

**1. General**

- A. This procedure has these tasks:
- (1) Flight Crew Lights Deactivation.
  - (2) Flight Crew Lights Activation.
  - (3) Map light - Lamp Replacement.
  - (4) Flight Kit/Reading Light - Lamp Replacement.
  - (5) Chart Light - Lamp Replacement.

**TASK 33-17-00-040-801**

**2. Flight Crew Lights - Deactivation**

(Figure 201)

**A. General**

- (1) This procedure removes electrical power from the Flight Crew Lights.

**B. Location Zones**

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

**C. Procedure**

SUBTASK 33-17-00-860-010

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

**F/O Electrical System Panel, P6-3**

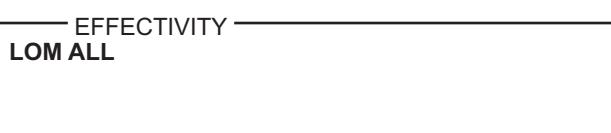
Row	Col	Number	Name
A	9	C00308	CONTROL CABIN LIGHTING MAP & KIT
A	10	C00309	CONTROL CABIN LIGHTING OBS READING

**D. Flight Crew Lights - Tryout**

NOTE: This tryout is to make sure the Flight Crew Lights are in a zero energy state.

SUBTASK 33-17-00-700-001

- (1) For the map, chart, and flight kit lights do these steps:
  - (a) At the P21 panel, turn the MAP and CHART light control switches clockwise to the full BRIGHT position.
    - 1) Make sure that neither the map light, nor chart light comes on.
  - (b) Turn the control switches on the P21 panel counter clockwise to the OFF position.
  - (c) At the flight kit light, turn the light control knob to the full BRIGHT position and set the light switch to the ON mode.
    - 1) Make sure the flight kit light does not come on.
  - (d) Set the light switch to the OFF mode.
  - (e) At the P23 panel, turn the MAP and CHART light control switches clockwise to the full BRIGHT position.
    - 1) Make sure that neither the map light, nor chart light comes on.
  - (f) Turn the control switches on the P23 panel counter clockwise to the OFF position.



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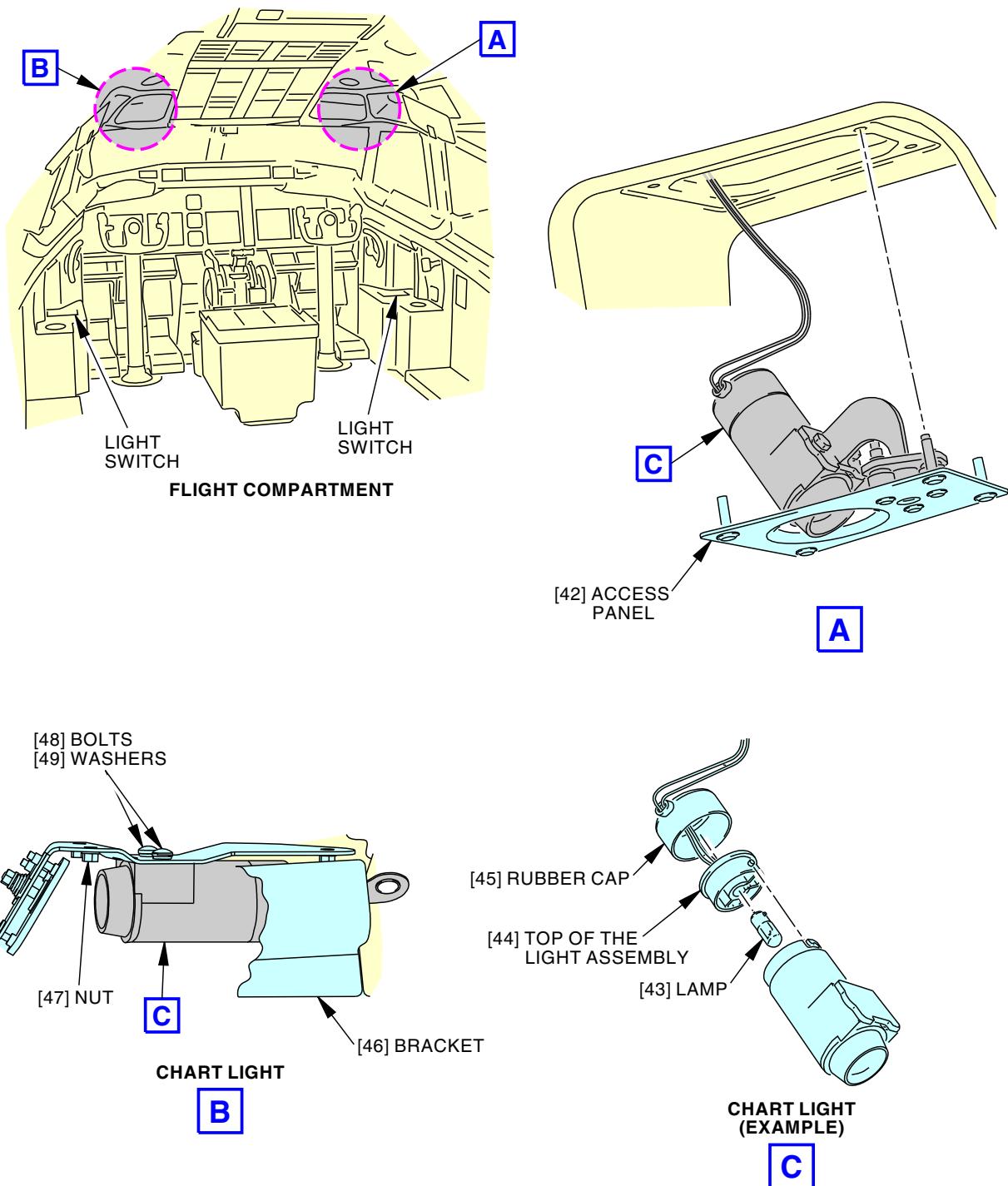
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**AIRCRAFT MAINTENANCE MANUAL**

- (g) At the flight kit light, turn the light control knob to the full BRIGHT position and set the light switch to the ON mode.
    - 1) Make sure the flight kit light does not come on.
  - (h) Set the light switch to the OFF mode.
- (2) For the observer reading lights do these steps:
- (a) Turn the light control knob to the full BRIGHT position and set the light switch to the ON mode.
    - 1) Make sure the observer reading light does not come on.
  - (b) Set the light control switch to the OFF mode.

———— END OF TASK ————

— EFFECTIVITY —  
**LOM ALL**

**33-17-00**

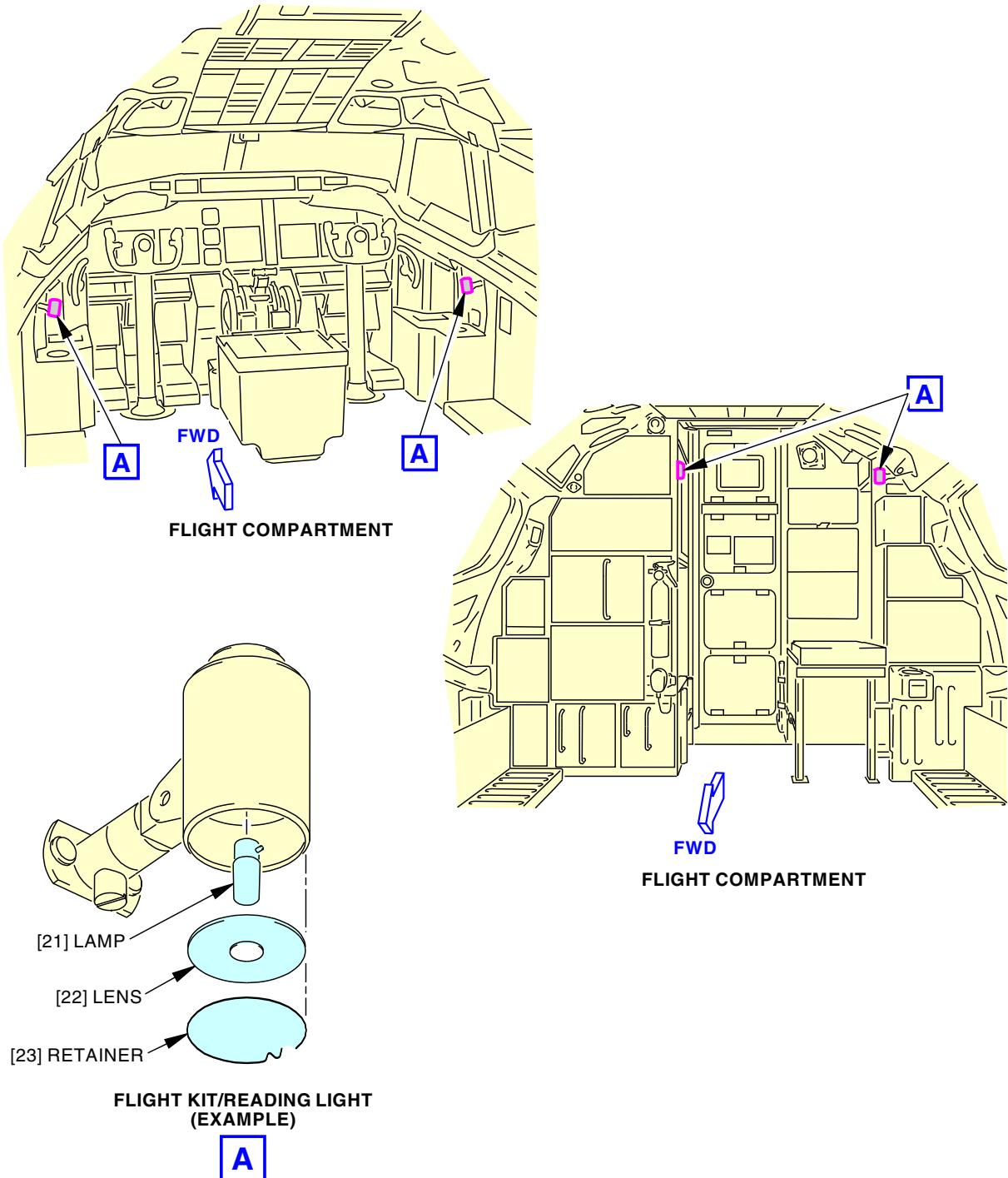


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**Chart Light - Lamp Replacement**  
**Figure 201/33-17-00-990-804 (Sheet 1 of 3)**

EFFECTIVITY  
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**33-17-00**



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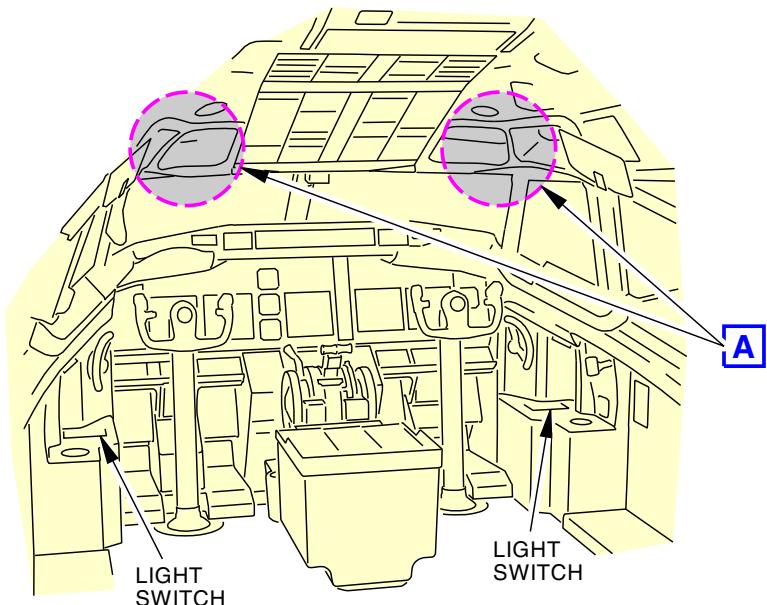
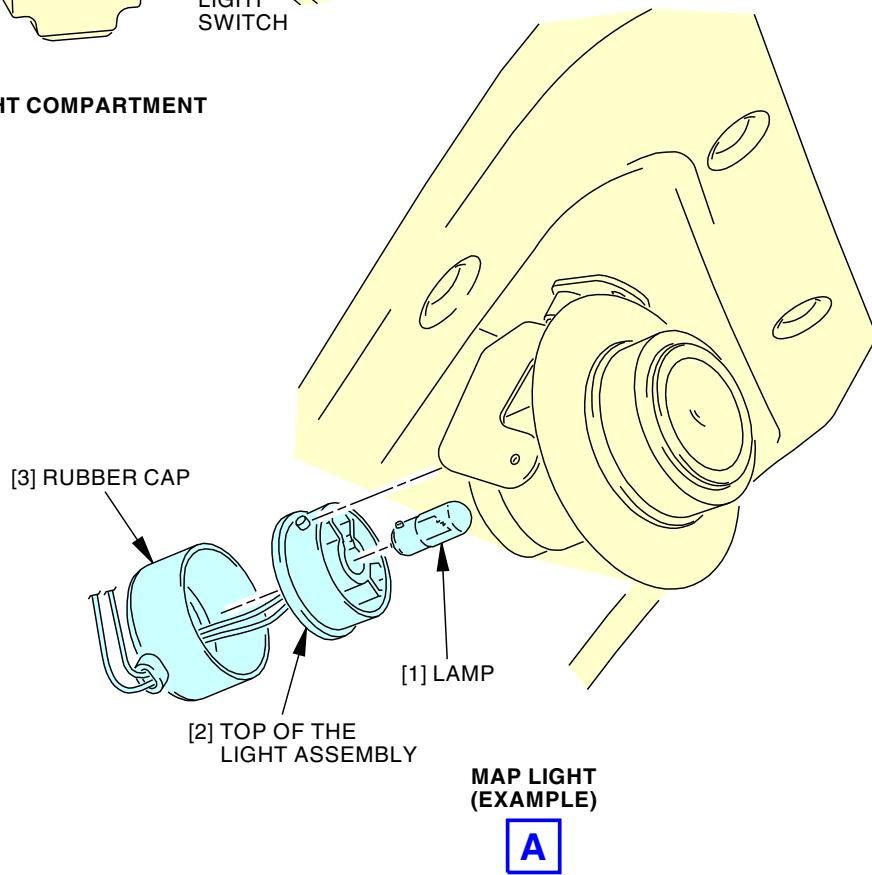
**Chart Light - Lamp Replacement**  
**Figure 201/33-17-00-990-804 (Sheet 2 of 3)**

 EFFECTIVITY  
 LOM ALL

**33-17-00**

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**FLIGHT COMPARTMENT**


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**Chart Light - Lamp Replacement  
Figure 201/33-17-00-990-804 (Sheet 3 of 3)**

EFFECTIVITY  
LOM ALL

**33-17-00**



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**TASK 33-17-00-440-801**

**3. Flight Crew Lights - Activation**

(Figure 201)

**A. General**

- (1) This procedure adds electrical power to the Flight Crew Lights.

**B. Location Zones**

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



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AIRCRAFT MAINTENANCE MANUAL

SUBTASK 33-17-00-960-001



**WARNING** DO NOT TOUCH THE SOCKET OR THE METAL END OF THE LAMP. WHEN ELECTRICAL POWER IS SUPPLIED TO THE LIGHT, ELECTRICAL SHOCK CAN OCCUR.

- (2) Do these steps to replace the lamp (WDM 33-17-11):

- (a) Turn the light assembly for access to the back of it.
- (b) Lift off the rubber cap [3].
- (c) If necessary, remove screws and spacers from the bracket assembly.
- (d) Remove the top of the light assembly [2].
- (e) Replace the lamp [1].
- (f) Install the top of the light assembly [2].
- (g) Put on the rubber cap [3].
- (h) If necessary, install screws and spacers to the bracket assembly.
- (i) Turn the light assembly back to its usual position.

SUBTASK 33-17-00-860-002

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

SUBTASK 33-17-00-710-001

- (4) Do a test of the new lamp:

- (a) At the P21 or P23 panel, set the applicable switch for the map light to the dim mode and then to the bright mode.
  - 1) Make sure the intensity of the light changes from dim to bright.
- (b) Set the switch to the off mode.
  - 1) Make sure the light goes off.

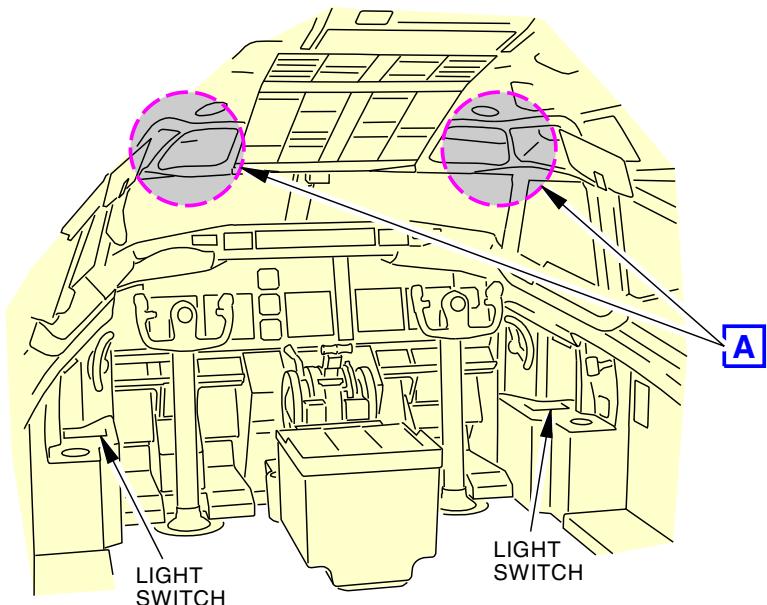
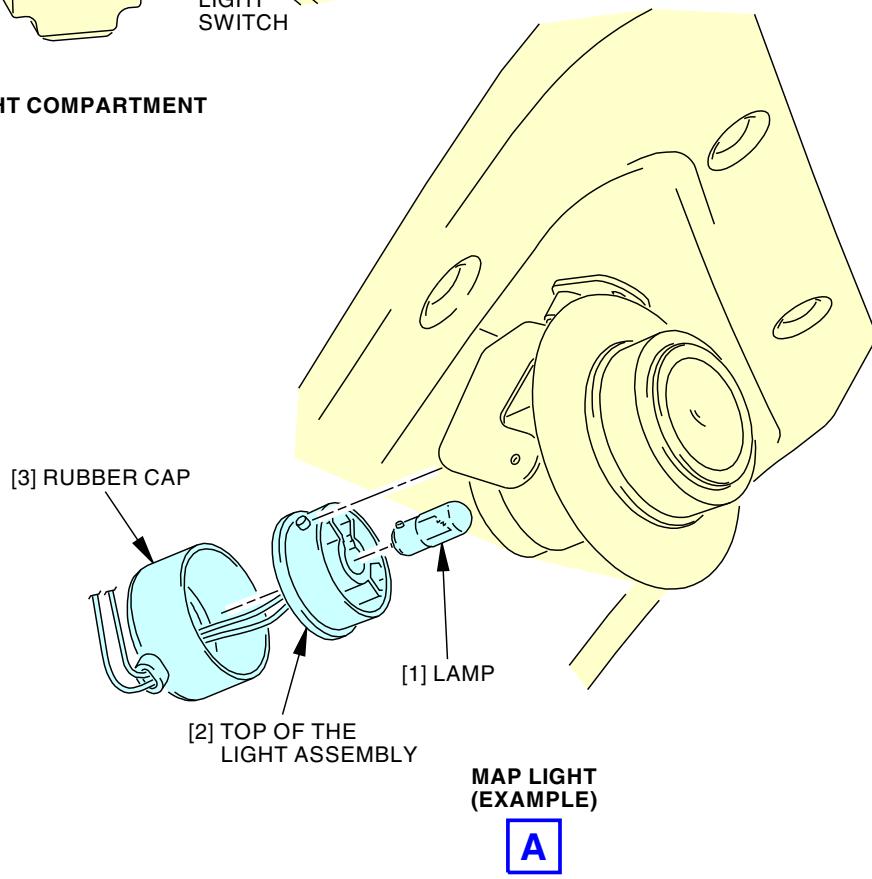
SUBTASK 33-17-00-860-003

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

———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-17-00**


**FLIGHT COMPARTMENT**

**MAP LIGHT  
(EXAMPLE)**

G29850 S0006575967\_V2

**Map Light - Lamp Replacement  
Figure 202/33-17-00-990-801**

 EFFECTIVITY  
LOM ALL

**33-17-00**



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**TASK 33-17-00-960-802**

**5. Flight Kit/Reading Light - Lamp Replacement**

(Figure 203)

**A. References**

Reference	Title
WDM 33-17-11	Wiring Diagram Manual

**B. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
21	Lamp	33-17-00-07-035	LOM ALL
		33-17-00-08-037	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 423, 424, 432, 437-439, 441, 443, 444, 450-452, 458-460, 464, 465
		33-17-00-12-020	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420
		33-17-00-15-040	LOM 422-424, 427-434, 437-447, 450-999

**C. Location Zones**

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

**D. Flight Kit/Reading Light Lamp Replacement**

SUBTASK 33-17-00-860-004

- (1) At the back of the light, set the switch to the off mode.

NOTE: Use the knob, not the push-button switch.

SUBTASK 33-17-00-860-012

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

**F/O Electrical System Panel, P6-3**

Row	Col	Number	Name
A	9	C00308	CONTROL CABIN LIGHTING MAP & KIT
A	10	C00309	CONTROL CABIN LIGHTING OBS READING

SUBTASK 33-17-00-960-002



DO NOT TOUCH THE SOCKET OR THE METAL END OF THE LAMP. WHEN ELECTRICAL POWER IS SUPPLIED TO THE LAMP, ELECTRICAL SHOCK CAN OCCUR. THIS CAN CAUSE INJURIES TO PERSONNEL.

- (3) Do these steps to replace the lamp (WDM 33-17-11):

- (a) Remove the retainer [23].
- (b) Remove the lens [22].
- (c) Replace the lamp [21].
- (d) Install the lens [22].
- (e) Install the retainer [23].

EFFECTIVITY  
**LOM ALL**

**33-17-00**

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SUBTASK 33-17-00-860-014

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

**F/O Electrical System Panel, P6-3**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	9	C00308	CONTROL CABIN LIGHTING MAP & KIT
A	10	C00309	CONTROL CABIN LIGHTING OBS READING

SUBTASK 33-17-00-710-002

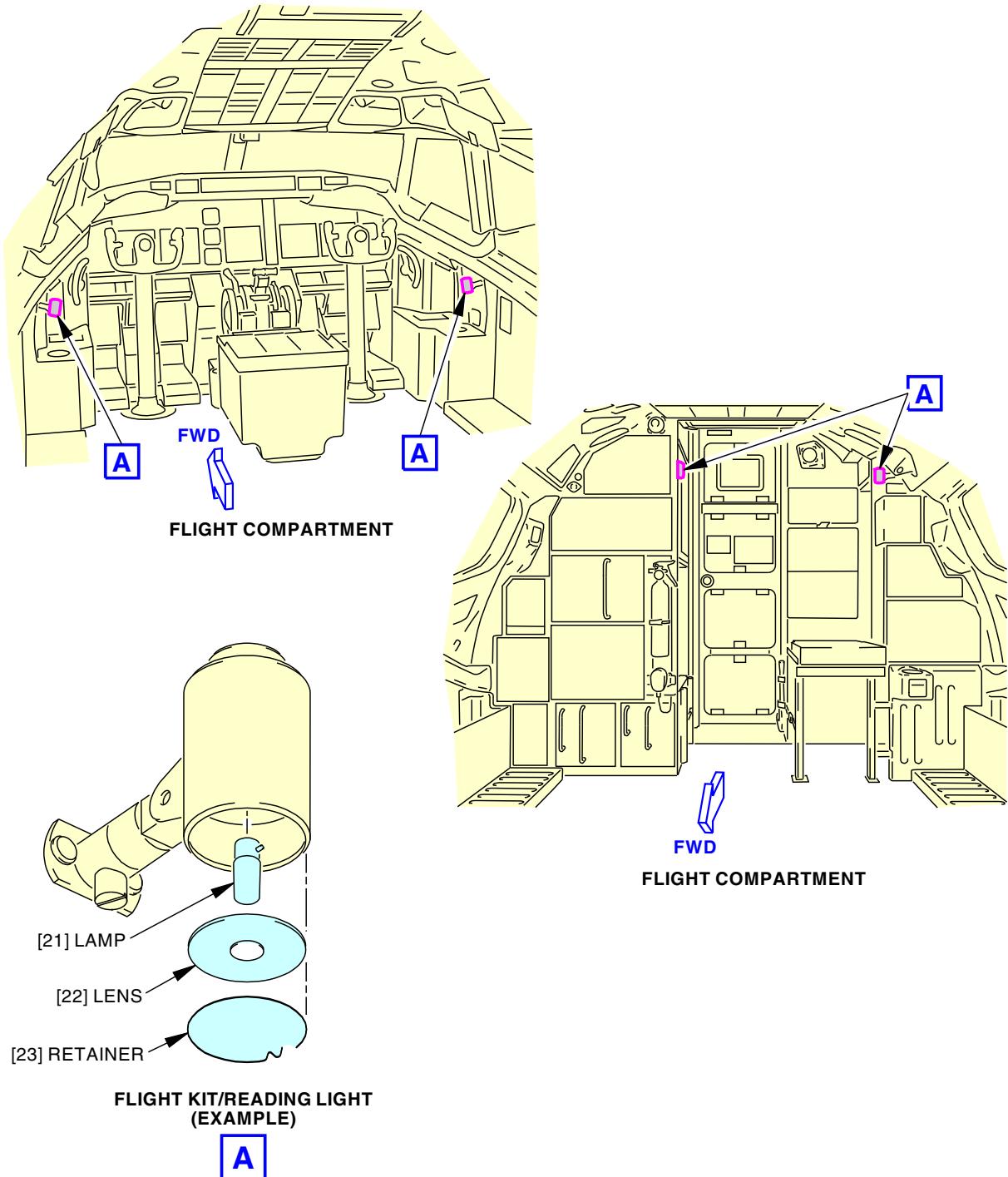
- (5) Do a test of the new lamp:

- (a) Set the switch for the light to the on mode.
  - 1) Make sure that the light comes on.
- (b) Set the switch to the off mode.
  - 1) Make sure that the light goes off.

———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-17-00**



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**Flight Kit/Reading Light - Lamp Replacement**  
**Figure 203/33-17-00-990-802**

EFFECTIVITY  
LOM ALL

**33-17-00**

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ECCN 9E991 BOEING PROPRIETARY - See title page for details



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**TASK 33-17-00-960-803**

**6. Chart Light - Lamp Replacement**

(Figure 204)

**A. References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
WDM 33-17-11	Wiring Diagram Manual

**B. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
43	Lamp	33-17-00-01-125	LOM 415, 416, 420, 422-434, 437-447, 450-999
		33-17-00-01-370	LOM 402, 404, 406, 407, 411, 412
		33-17-00-01-635	LOM ALL

**C. Location Zones**

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

**D. Procedure**

SUBTASK 33-17-00-860-007

- (1) At the auxiliary panel, P21 or P23, set the applicable switch for the chart light to the off mode.

SUBTASK 33-17-00-960-003



**WARNING** DO NOT TOUCH THE SOCKET OR THE METAL END OF THE LAMP. WHEN ELECTRICAL POWER IS SUPPLIED TO THE LIGHT, ELECTRICAL SHOCK CAN OCCUR.

- (2) Do these steps to replace the lamp (WDM 33-17-11):

- (a) For the captain's chart light, do these steps to get access to the light assembly:
  - 1) Remove the bolts [48] and washers [49] that attach the bracket [46] to the chart light.
  - 2) Remove the nuts [47] that attach the bracket [46] to the structure.
  - 3) Remove the bracket [46].
- (b) For the first officer's chart light, do this step to get access to the light assembly:
  - 1) Loosen the fasteners [41] and lower the access panel [42].
- (c) Lift off the rubber cap [45].
- (d) Remove the top of the light assembly [44].
- (e) Replace the lamp [43].
- (f) Install the top of the light assembly [44].
- (g) Put on the rubber cap [45].

EFFECTIVITY  
LOM ALL

**33-17-00**

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- (h) For the first officer's chart light, install the access panel [42] and tighten the fasteners [41].
- (i) For the captain's chart light, do these steps:
  - 1) Tighten the bolts [48] and washers [49] that attach the bracket [46] to the chart light.
  - 2) Put the bracket [46] in its position.
  - 3) Install the nuts [47] that attach the bracket [46] to the structure.  
NOTE: Do not tighten the nuts [47].
  - 4) With power on, use driver to direct light assembly to chart holder area.
  - 5) Hold aim with driver and rotate aperture on light assembly to align light pattern lengthwise and parallel to the number 2 window pane.
  - 6) Hold aim of light and tighten the nuts [47] that attach the bracket [46] to the structure.

SUBTASK 33-17-00-860-008

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

SUBTASK 33-17-00-710-003

- (4) Do a test of the new lamp:
  - (a) At the P21 or P23 panel, set the applicable switch for the chart light to the dim mode and then to the bright mode.
    - 1) Make sure the intensity of the light changes from dim to bright.
  - (b) Set the switch to the off mode.
    - 1) Make sure the light goes off.

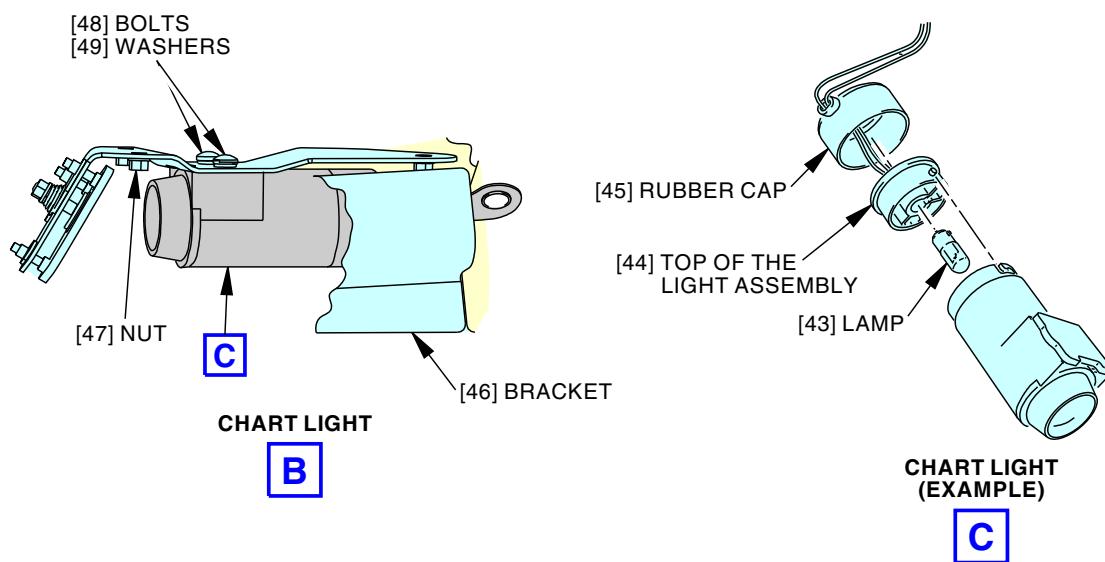
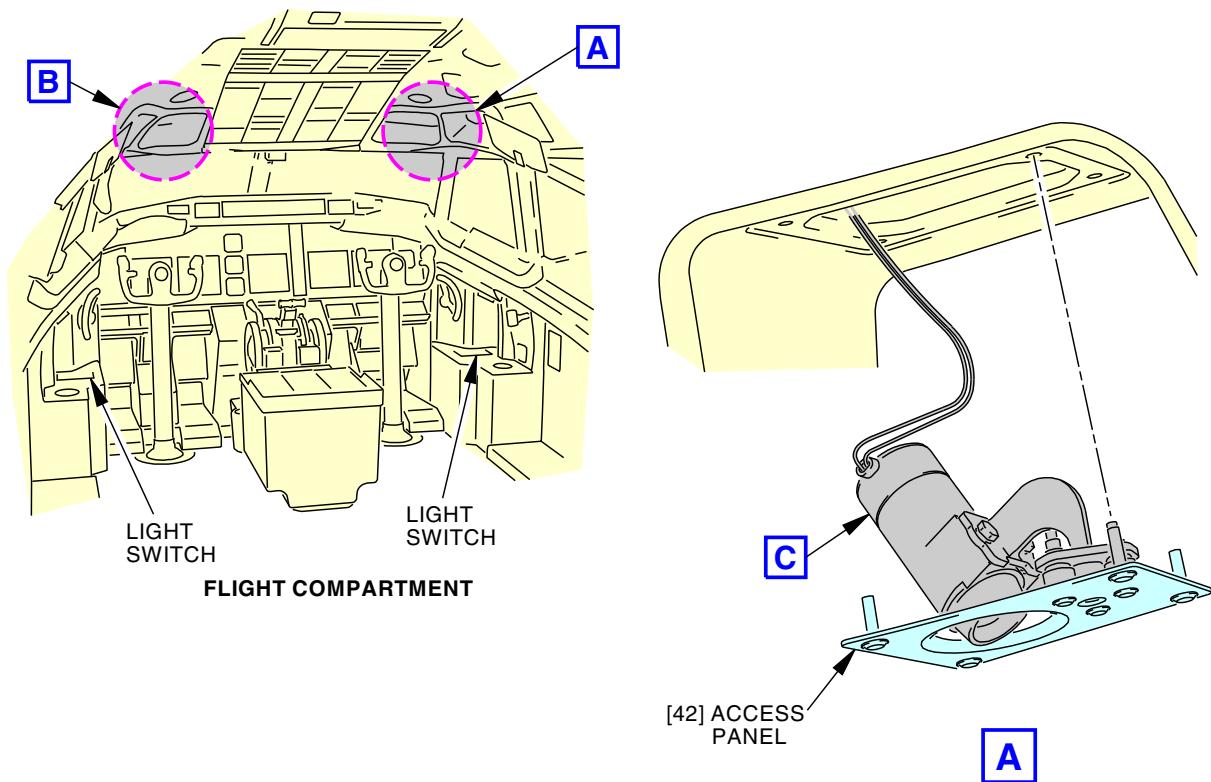
SUBTASK 33-17-00-860-009

- (5) If electrical power is no longer necessary, do this task: Remove Electrical Power, TASK 24-22-00-860-812.

———— END OF TASK ———

EFFECTIVITY  
LOM ALL

**33-17-00**



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**Chart Light - Lamp Replacement**  
**Figure 204/33-17-00-990-803**

 EFFECTIVITY  
 LOM ALL

**33-17-00**



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MASTER DIM AND TEST (MD&T) LIGHTS - MAINTENANCE PRACTICES

**1. General**

- A. This procedure has these tasks:
- (1) Master Dim and Test Lights Deactivation.
  - (2) Master Dim and Test Lights Activation.
  - (3) Indicator Light - Lamp Replacement.
  - (4) Indicator Light - Light Assembly Replacement.
  - (5) Lighted Pushbutton Switch - Lamp Replacement.
  - (6) Lightplate - Replacement.
  - (7) Annunciator And Dimming Module - Module Replacement.
  - (8) Master Dim and Test System - Module Replacement.
  - (9) Master Dim and Test - Operational Test.

**TASK 33-18-00-040-801**

**2. Master Dim and Test Lights - Deactivation**

(Figure 201)

**A. General**

- (1) This procedure removes electrical power to the Master Dim and Test Lights.

**B. Location Zones**

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

**C. Procedure**

SUBTASK 33-18-00-860-022

- (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>
A	6	C00148	ANTI-ICE & RAIN ENG 1 & WING CONT
B	6	C00149	ANTI-ICE & RAIN ENGINE 2 CONTROL

**F/O Electrical System Panel, P6-2**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	21	C00396	FIRE PROT DETECTION MA WRN & CONT
B	9	C00440	FLIGHT CONTROL AUTO SPEED BRAKE

**F/O Electrical System Panel, P6-3**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	1	C00736	MISC CLOCK DISPLAY
B	5	C00540	FUEL SPAR VALVE IND
B	7	C00361	FUEL CROSS FEED VALVE
C	13	C01277	MASTER CAUTION ANNUNCIATOR CONT 3
D	11	C00133	INDICATOR MASTER DIM DIM/TST CONT



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(Continued)

**F/O Electrical System Panel, P6-3**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	12	C00310	INDICATOR MASTER DIM BAT
D	13	C00311	INDICATOR MASTER DIM BUS 1
D	14	C00312	INDICATOR MASTER DIM BUS 2
E	4	C01396	ENGINE FUEL ENGINE 2 HPSOV IND
E	6	C01395	ENGINE FUEL ENGINE 1 HPSOV IND
E	11	C00313	INDICATOR MASTER DIM SECT 1
E	12	C00314	INDICATOR MASTER DIM SECT 2
E	13	C00315	INDICATOR MASTER DIM SECT 3
E	14	C00316	INDICATOR MASTER DIM SECT 4
F	11	C00317	INDICATOR MASTER DIM SECT 5
F	12	C00318	INDICATOR MASTER DIM SECT 6
F	13	C01179	INDICATOR MASTER DIM SECT 7
F	14	C01180	INDICATOR MASTER DIM SECT 8

**D. Master Dim and Test Lights - Tryout**

NOTE: This tryout is to make sure the Master Dim and Test Lights are in a zero energy state.

SUBTASK 33-18-00-700-001

- (1) On the captain's instrument panel, P1, set the switch for the master dim and test lights to TEST.
- (2) Make sure that the indicator lights on these panels do not come on:
  - (a) Captain's Instrument Panel, P1
  - (b) Center Instrument Panel, P2
  - (c) First Officer's Instrument Panel, P3
  - (d) AFT and FWD Overhead Panel, P5
  - (e) Glareshield Panel, P7
  - (f) AFT and FWD Electronics Panels, P8 and P9
- (3) Set the switch for the master dim and test lights to DIM.

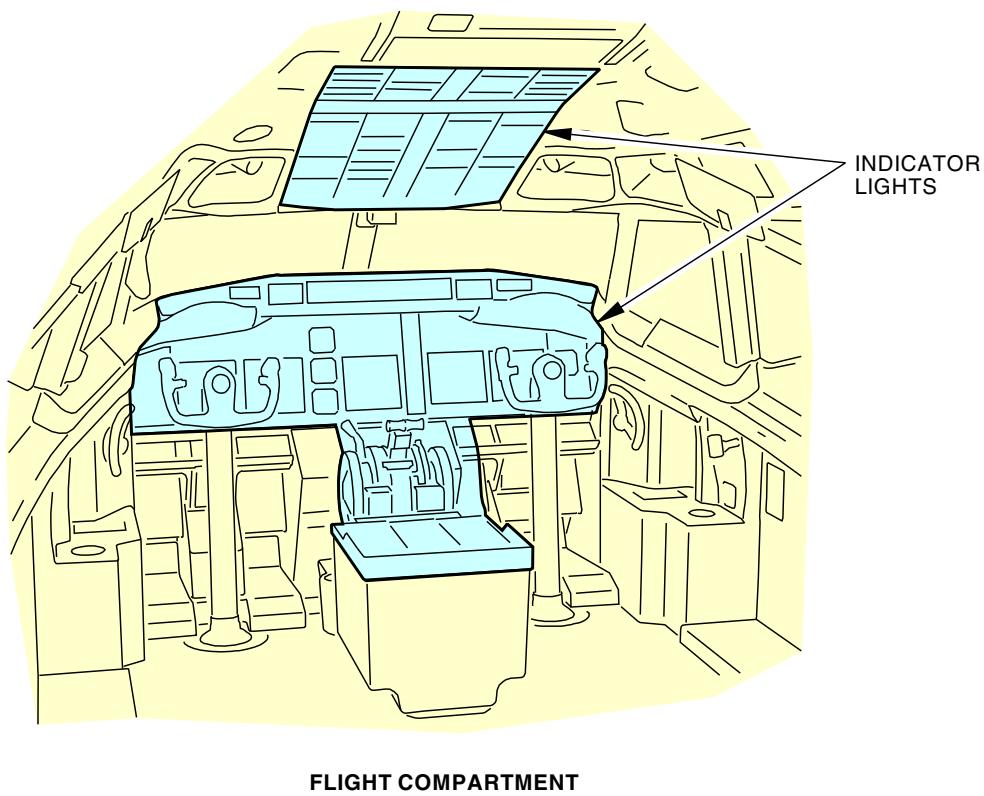
———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-18-00**



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**Master Dim and Test Lights**  
Figure 201/33-18-00-990-808

EFFECTIVITY  
LOM ALL

**33-18-00**

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TASK 33-18-00-440-801

3. **Master Dim and Test Lights - Activation**

(Figure 201)

**A. General**

- (1) This procedure adds electrical power to the Master Dim and Test Lights.

**B. Location Zones**

**Zone      Area**

211	Flight Compartment - Left
212	Flight Compartment - Right

**C. Procedure**

SUBTASK 33-18-00-860-023

- (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>
A	6	C00148	ANTI-ICE & RAIN ENG 1 & WING CONT
B	6	C00149	ANTI-ICE & RAIN ENGINE 2 CONTROL

**F/O Electrical System Panel, P6-2**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	21	C00396	FIRE PROT DETECTION MA WRN & CONT
B	9	C00440	FLIGHT CONTROL AUTO SPEED BRAKE

**F/O Electrical System Panel, P6-3**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	1	C00736	MISC CLOCK DISPLAY
B	5	C00540	FUEL SPAR VALVE IND
B	7	C00361	FUEL CROSS FEED VALVE
C	13	C01277	MASTER CAUTION ANNUNCIATOR CONT 3
D	11	C00133	INDICATOR MASTER DIM DIM/TST CONT
D	12	C00310	INDICATOR MASTER DIM BAT
D	13	C00311	INDICATOR MASTER DIM BUS 1
D	14	C00312	INDICATOR MASTER DIM BUS 2
E	4	C01396	ENGINE FUEL ENGINE 2 HPSOV IND
E	6	C01395	ENGINE FUEL ENGINE 1 HPSOV IND
E	11	C00313	INDICATOR MASTER DIM SECT 1
E	12	C00314	INDICATOR MASTER DIM SECT 2
E	13	C00315	INDICATOR MASTER DIM SECT 3
E	14	C00316	INDICATOR MASTER DIM SECT 4
F	11	C00317	INDICATOR MASTER DIM SECT 5
F	12	C00318	INDICATOR MASTER DIM SECT 6
F	13	C01179	INDICATOR MASTER DIM SECT 7
F	14	C01180	INDICATOR MASTER DIM SECT 8

— END OF TASK —

EFFECTIVITY  
LOM ALL

**33-18-00**



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**TASK 33-18-00-960-801**

**4. Indicator Light - Lamp Replacement**

(Figure 202)

**A. References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)

**B. Tools/Equipment**

Reference	Description
STD-1176	Cover - Windshield Blackout Screen

**C. Location Zones**

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

**D. Procedure**

SUBTASK 33-18-00-010-001

- (1) Pull the cap assembly [4] away from the panel [6].

SUBTASK 33-18-00-960-001

- (2) Replace the unserviceable lamps [5].

SUBTASK 33-18-00-860-005

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

SUBTASK 33-18-00-940-003

- (4) If it is necessary, put a windshield cover, STD-1176 on the windshield.

NOTE: During the day, the changes in light intensity are not easy to see.

SUBTASK 33-18-00-710-002

- (5) Do these steps to test the lamps [5]:

(a) If the indicator light has a press-to-test actuator [3], then on the captain's instrument panel (P1), set the DIM/BRT/TEST switch to the BRT position.

1) Push the front of the indicator light.

2) Make sure the indicator light comes on.

(b) If the indicator light does not have a press-to-test actuator [3], then on the captain's instrument panel (P1), set the DIM/BRT/TEST switch to the TEST position.

1) Make sure the indicator light comes on.

2) Set the DIM/BRT/TEST switch to the DIM or BRT position.

SUBTASK 33-18-00-940-004

- (6) If a windshield cover, STD-1176 was used on the windshield, remove it.

SUBTASK 33-18-00-860-006

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

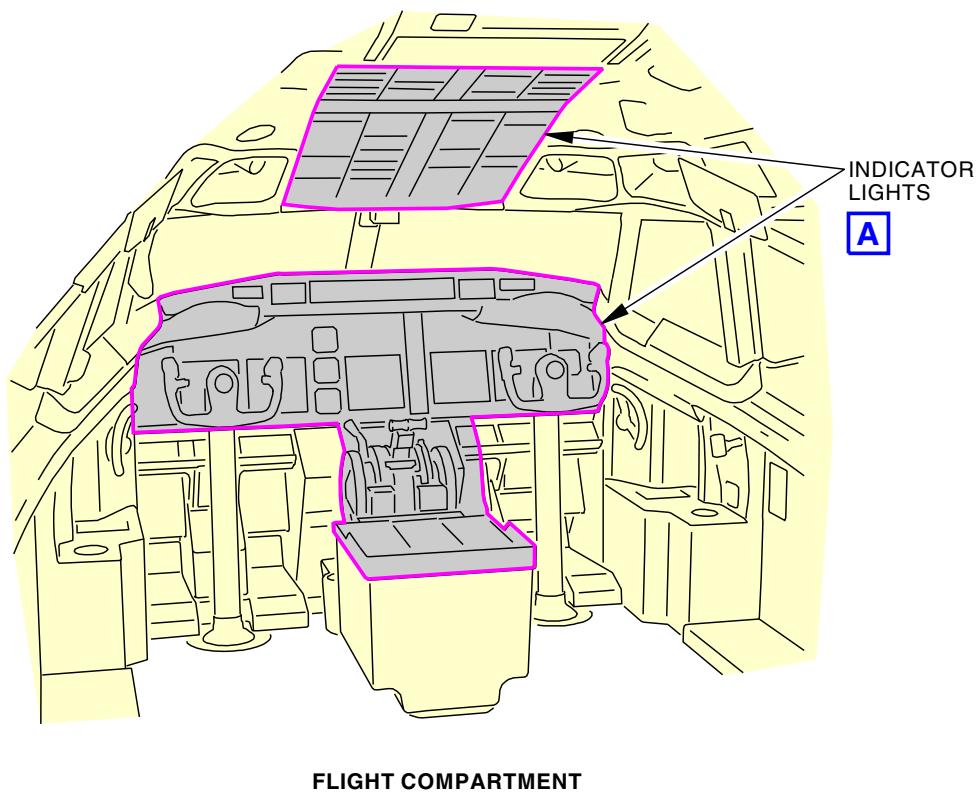
———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-18-00**



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FLIGHT COMPARTMENT

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Indicator Light - Lamp/Light Assembly Replacement  
Figure 202/33-18-00-990-802 (Sheet 1 of 2)

EFFECTIVITY  
LOM ALL

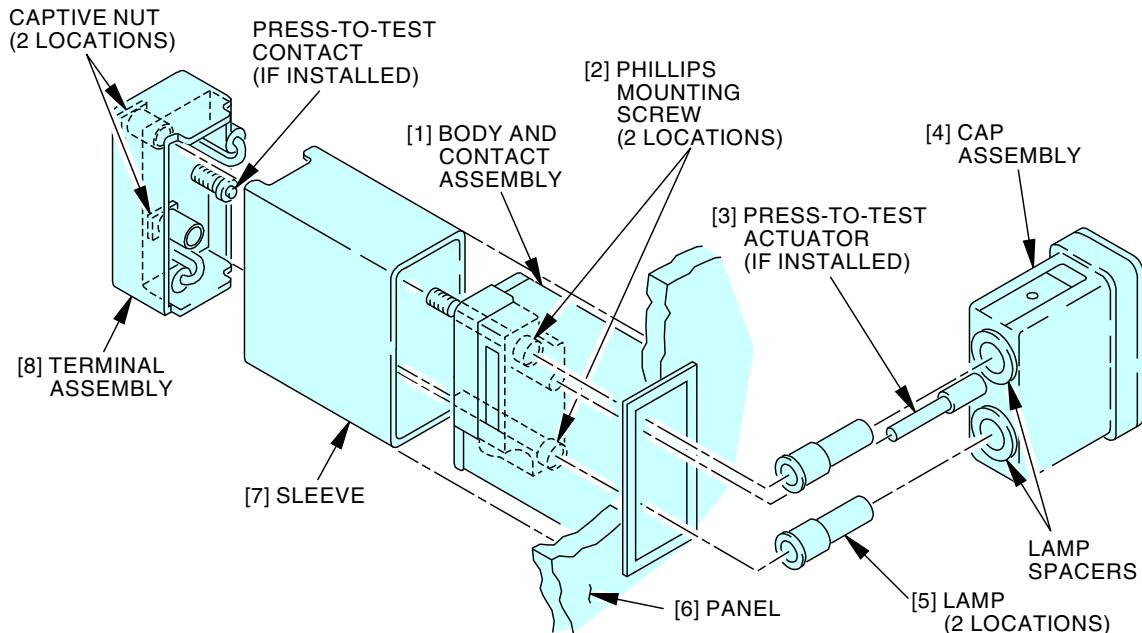
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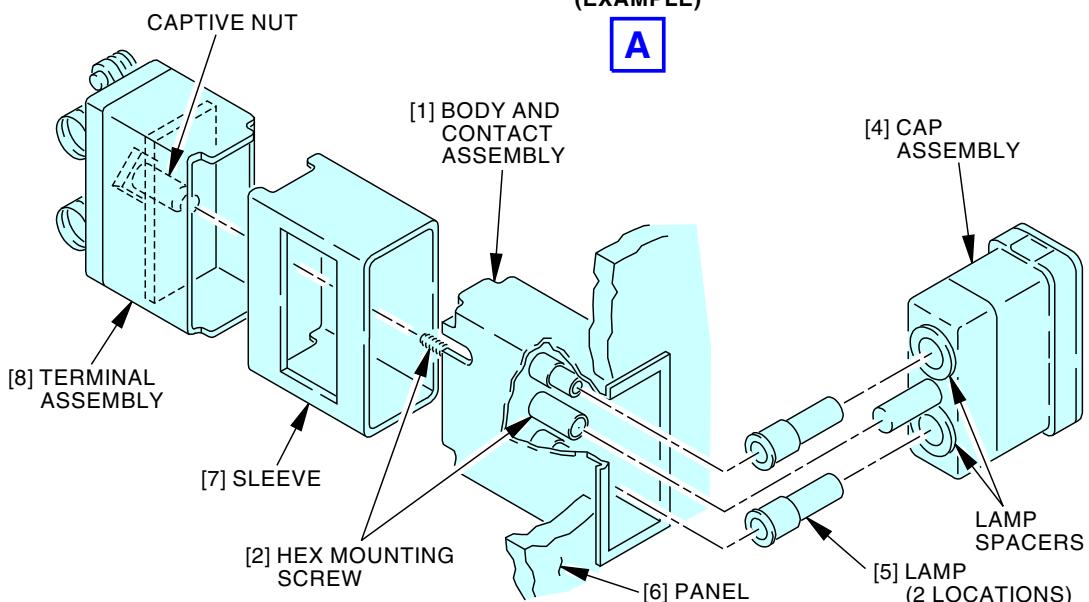
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**BOEING**  
**737-600/700/800/900**  
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**INDICATOR LIGHT WITH PHILLIPS MOUNTING CREWS  
(EXAMPLE)**

**A**



**INDICATOR LIGHT WITH A HEX MOUNTING SCREW  
(EXAMPLE)**

**A**

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**Indicator Light - Lamp/Light Assembly Replacement**  
**Figure 202/33-18-00-990-802 (Sheet 2 of 2)**

EFFECTIVITY  
LOM ALL

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**TASK 33-18-00-960-802**

**5. Indicator Light - Light Assembly Replacement**

(Figure 202)

**A. References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
WDM 33-18-11 thru 33-18-99	Wiring Diagram Manual

**B. Tools/Equipment**

Reference	Description
STD-1176	Cover - Windshield Blackout Screen

**C. Location Zones**

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

**D. Procedure**

**SUBTASK 33-18-00-860-007**

- (1) Open the circuit breakers that supply the indicator light with power and attach DO-NOT-CLOSE tags.

**NOTE:** Many systems in the airplane have indicator lights installed in the flight compartment. Use the Wiring Diagram Manual to find the correct circuit breakers for the indicator light (WDM 33-18-11 thru 33-18-99).

**SUBTASK 33-18-00-960-002**

- (2) Do these steps to replace the indicator light assembly:
  - (a) Get access to the rear of the indicator light.
  - (b) Disconnect and tag the electrical wires attached to the indicator light terminals.
  - (c) Pull the cap assembly [4] away from the panel [6].
  - (d) Loosen the screws [2] that hold the indicator light to the panel [6].
  - (e) From behind the panel [6], remove the terminal assembly [8] and sleeve [7] of the indicator light.
  - (f) From the front of the panel [6], remove the body and contact assembly [1].
  - (g) Put the replacement body and contact assembly [1] through the front of the panel [6].
  - (h) From the rear of the panel [6], put the sleeve [7] on the body and contact assembly [1].
    - 1) Make sure that the sleeve [7] is installed in the correct orientation for use with the desired panel thickness.
      - a) For 1/16 to 1/8 inch thickness panel, rotate the sleeve [7] by 180°.
    - (i) Hold the terminal assembly [8] in the correct position.
    - (j) Tighten the screws [2] to attach the indicator light to the panel [6].
    - (k) From the front of the panel [6], push the cap assembly [4] into position.
    - (l) Connect the electrical wires to the indicator light terminals.

**SUBTASK 33-18-00-860-008**

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

EFFECTIVITY
LOM ALL

**33-18-00**



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SUBTASK 33-18-00-850-001

- (4) Remove the DO-NOT-CLOSE tags and close the circuit breakers that were opened to replace the indicator light assembly.

SUBTASK 33-18-00-940-005

- (5) If it is necessary, put a windshield cover, STD-1176 on the windshield.

NOTE: During the day, the changes in light intensity are not easy to see.

SUBTASK 33-18-00-710-003

- (6) Do these steps to test the indicator light assembly:

- (a) If the indicator light has a press-to-test actuator [3], then on the captain's instrument panel (P1), set the DIM/BRT/TEST switch to the BRT position.
  - 1) Push the front of the indicator light.
  - 2) Make sure the indicator light comes on.
- (b) If the indicator light does not have a press-to-test actuator [3], then on the captain's instrument panel (P1), set the DIM/BRT/TEST switch to the TEST position.
  - 1) Make sure the indicator light comes on.
  - 2) Set the DIM/BRT/TEST switch to the DIM or BRT position.

SUBTASK 33-18-00-940-006

- (7) If a windshield cover, STD-1176 was used on the windshield, remove it.

SUBTASK 33-18-00-860-009

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

————— END OF TASK ————

### TASK 33-18-00-960-803

#### 6. Lighted Pushbutton Switch - Lamp Replacement

(Figure 203)

##### A. General

- (1) The lighted pushbutton switches are installed on the instrument panels in the flight compartment.
- (2) Each switch has two light circuits that are electrically isolated.
  - (a) One circuit controls the caution indicator lights. The caution indicator lights show the condition of the airplane.
    - 1) The Master Dim and Test module supplies 28 volts dc to each caution indicator light.
  - (b) The other circuit controls the position indicator lights. The position indicator lights show if the lighted pushbutton switch is on or off.
    - 1) 5 volts ac from the dimmer controls, installed in the instrument panels, controls each position indicator light.
- (3) Replacement procedures for lighted pushbutton switches are contained in the Standard Wiring Practices Manual, SWPM 20-84-13.

##### B. References

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)

————— EFFECTIVITY ————  
LOM ALL

**33-18-00**



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AIRCRAFT MAINTENANCE MANUAL

(Continued)

Reference	Title
SWPM 20-84-13	Standard Wiring Practices Manual

**C. Tools/Equipment**

Reference	Description
STD-1176	Cover - Windshield Blackout Screen

**D. Location Zones**

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

**E. Procedure**

SUBTASK 33-18-00-960-003

- (1) Do these steps to replace the unserviceable lamps [23]:



REMOVE THE POWER FROM THE LAMPS BEFORE YOU DO MAINTENANCE. FAILURE TO OPEN THE CIRCUIT BREAKERS CAN CAUSE DAMAGE TO THE ELECTRICAL CIRCUIT CARDS WHEN YOU INSTALL THE LENS CAP.

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

**F/O Electrical System Panel, P6-3**

Row	Col	Number	Name
D	12	C00310	INDICATOR MASTER DIM BAT
D	13	C00311	INDICATOR MASTER DIM BUS 1
D	14	C00312	INDICATOR MASTER DIM BUS 2



OPEN THE APPLICABLE SYSTEM CIRCUIT BREAKERS FOR THE SYSTEM CONTROLLED BY THE SWITCH. THE INSTALLATION OF THE LENS CAP INTO THE HOUSING CAN OPERATE THE SWITCH AND CAUSE ITS SYSTEM TO OPERATE. THE ACCIDENTAL OPERATION OF A SYSTEM CAN CAUSE INJURY TO PERSONS OR DAMAGE TO EQUIPMENT.

- (b) Open the applicable system circuit breakers and attach DO-NOT-CLOSE tags.  
(c) Make sure that the switch is in the off position (not pushed in).



DO NOT HOLD THE LENS CAP WITH A TOOL. REMOVE THE LENS CAP WITH YOUR FINGERS ONLY. DO NOT USE TOO MUCH FORCE ON THE BAIL WIRES BECAUSE YOU CAN DAMAGE THE BAIL WIRE CLIPS.

- (d) Hold the lens cap [24] with your fingers and pull it away from the housing [22].  
(e) Replace the unserviceable lamps [23].  
NOTE: After you extend the lens cap [24], you can easily turn it to get to the lamps [23].  
(f) Push the lens cap [24] back into the housing [22] in a continuous movement until the lens cap [24] engages.  
(g) Make sure the switch is in the off position (not pushed in), after you install the lens cap [24].

EFFECTIVITY  
LOM ALL

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- (h) Close these circuit breakers:

**F/O Electrical System Panel, P6-3**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	12	C00310	INDICATOR MASTER DIM BAT
D	13	C00311	INDICATOR MASTER DIM BUS 1
D	14	C00312	INDICATOR MASTER DIM BUS 2

- (i) Remove the DO-NOT-CLOSE tags and close the applicable circuit breakers for the system controlled by each switch.

SUBTASK 33-18-00-710-004

- (2) Do these steps to test the lamps [23]:

- (a) Do this task: Supply Electrical Power, TASK 24-22-00-860-811.
- (b) Do a test of the caution indicator lights.
  - 1) On the captain's instrument panel P1, set the DIM/BRT/TEST switch to the TEST position.
  - 2) Make sure the lamps [23] that were replaced come on.
  - 3) Set the DIM/BRT/TEST switch to the DIM or BRT position.
  - 4) Make sure the caution indicator lights go off.
- (c) Do a test of the position indicator lights.



**WARNING** THE OPERATION OF A SWITCH WILL CAUSE ITS SYSTEM TO OPERATE. THE ACCIDENTAL OPERATION OF A SYSTEM CAN CAUSE INJURY TO PERSONS OR DAMAGE TO EQUIPMENT.

- 1) Push the switch to the on position.
  - 2) Make sure the lamps [23] that were replaced come on.
  - 3) Push the switch to the off position.
  - 4) Make sure the position indicator lights go off.
- (d) If a windshield cover, STD-1176 was used on the windshield, remove it.
- (e) Do this task: Remove Electrical Power, TASK 24-22-00-860-812.

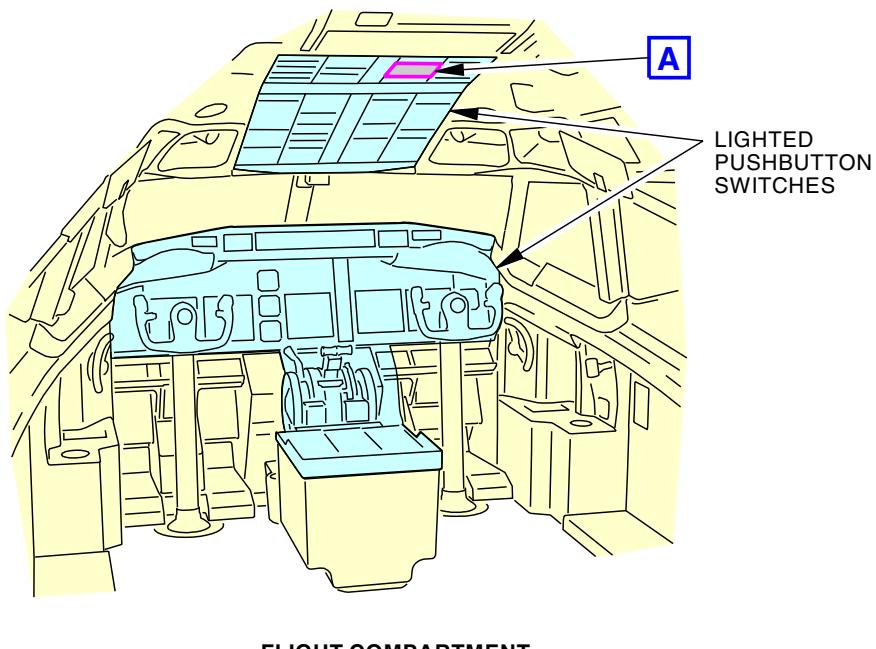
———— END OF TASK ————

EFFECTIVITY  
LOM ALL

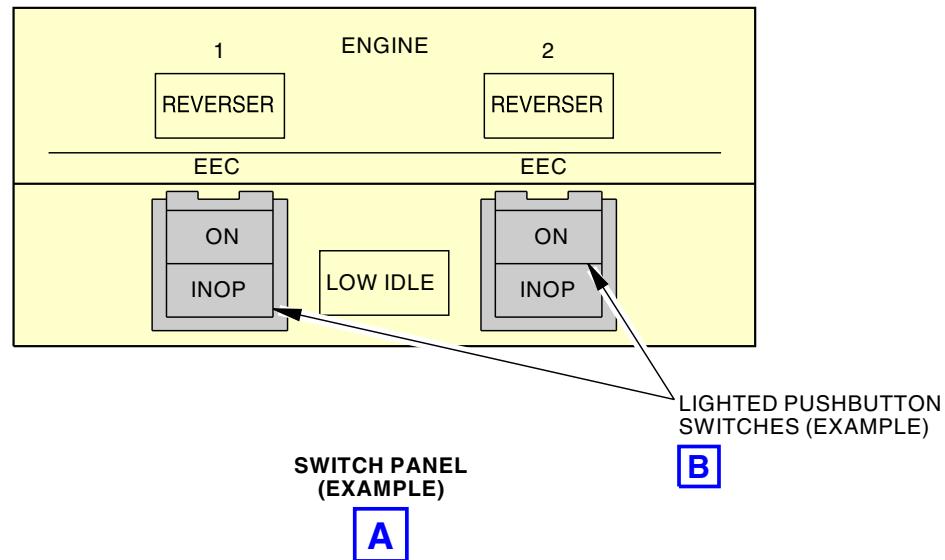
**33-18-00**



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FLIGHT COMPARTMENT



G44009 S0006575980\_V3

Lighted Pushbutton Switch  
Figure 203/33-18-00-990-803 (Sheet 1 of 3)

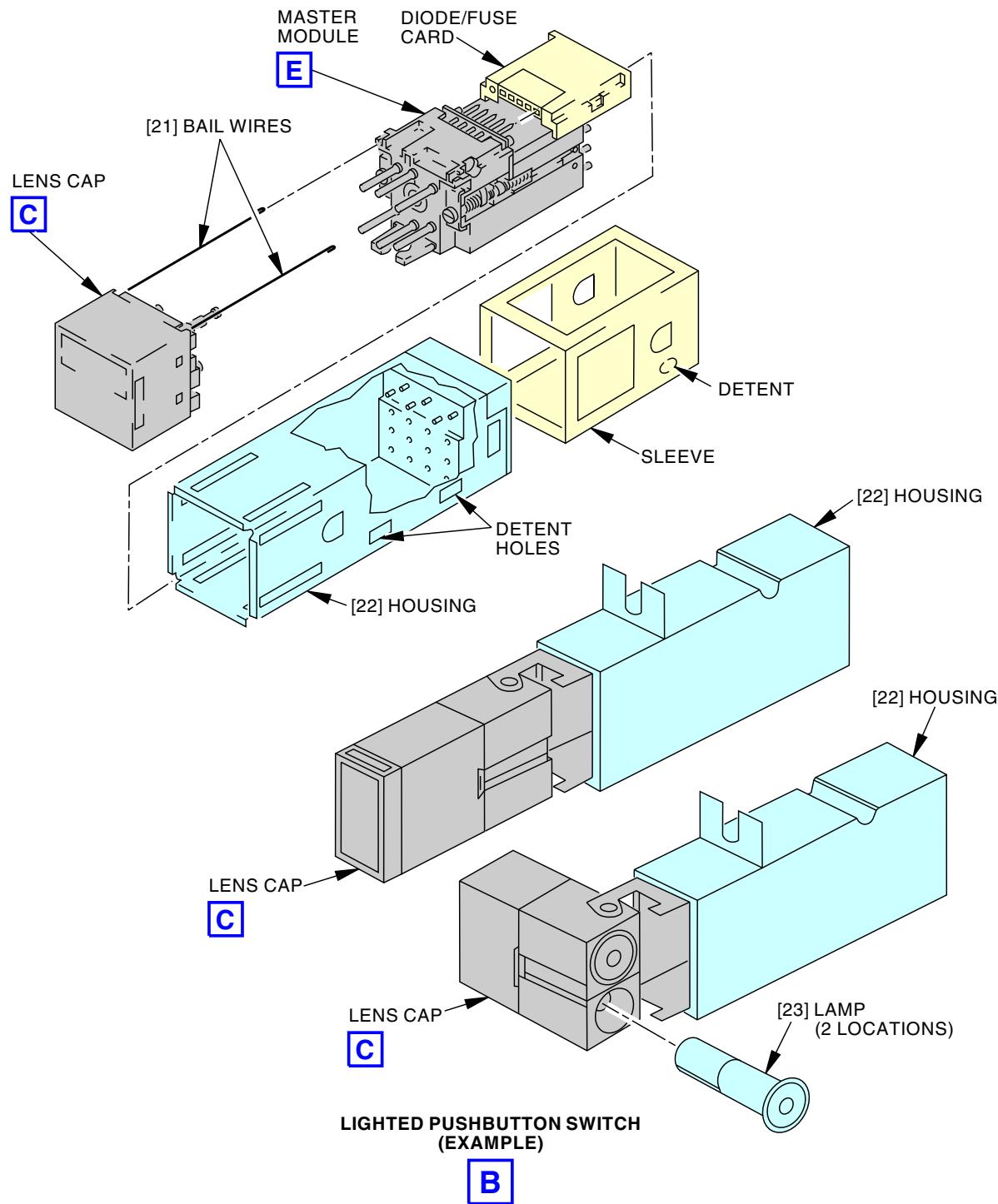
EFFECTIVITY  
LOM ALL

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G44010 S0006575981\_V3

Lighted Pushbutton Switch  
Figure 203/33-18-00-990-803 (Sheet 2 of 3)

EFFECTIVITY  
LOM ALL

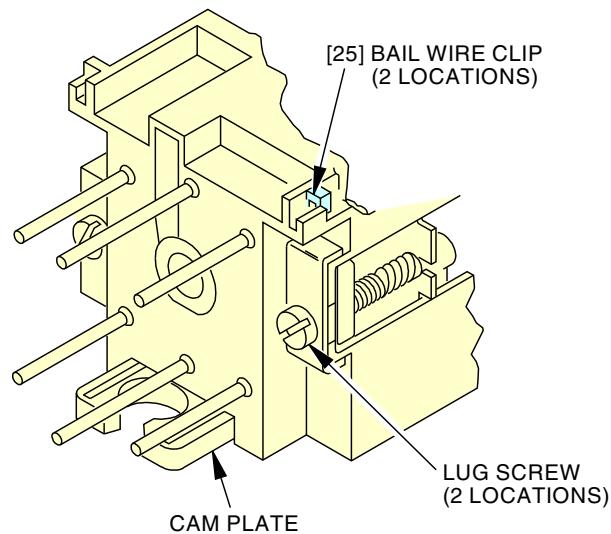
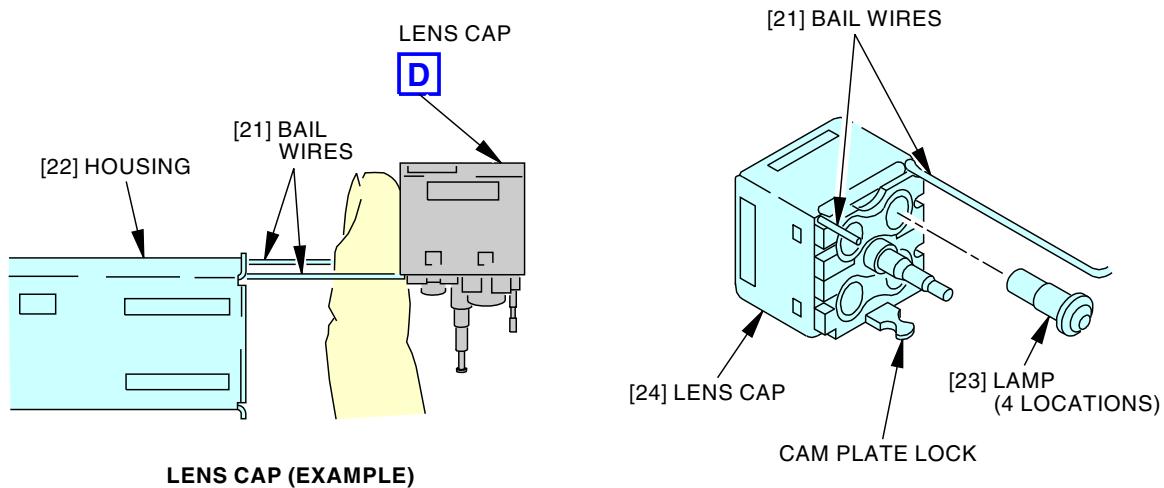
**33-18-00**

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ECCN 9E991 BOEING PROPRIETARY - See title page for details



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MASTER MODULE (EXAMPLE)

E

G44012 S0006575982\_V3

Lighted Pushbutton Switch  
Figure 203/33-18-00-990-803 (Sheet 3 of 3)

EFFECTIVITY  
LOM ALL

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**TASK 33-18-00-960-804**

**7. Lightplate - Replacement**

(Figure 204)

**A. General**

- (1) Lightplates give lighting to the components and words on the pilots panels.
- (2) If a lightplate becomes too dim, you need to replace the lightplate.
- (3) Onboard repair of lightplates is not recommended. Replacement of the complete lightplate assembly is the preferred maintenance practice. Instructions for lamp replacement can be found in the lightplate vendor's manual.

**B. Tools/Equipment**

Reference	Description
STD-1176	Cover - Windshield Blackout Screen

**C. Location Zones**

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

**D. Lightplate Replacement**

SUBTASK 33-18-00-960-004

- (1) Do these steps to replace the unserviceable lightplate:
  - (a) If it is necessary, remove the knobs [44] that are in front of the faceplate [41].
  - (b) Loosen the fasteners [43] that hold the faceplate [41] in its position.
  - (c) Carefully pull the faceplate [41] from the module [42].

NOTE: Do not discard the lightplate. Refer to the vendor manual for possible repairs in a shop.

  - (d) Attach the replacement faceplate [41] to the module [42].
  - (e) Tighten the fasteners [43] to hold the faceplate [41] in its position.
  - (f) If it is necessary, attach the knobs [44] in front of the faceplate [41].

SUBTASK 33-18-00-710-005

- (2) Do these steps to test the replacement lightplate:
  - (a) If it is necessary, put a cover on the windshield.

NOTE: During the day, the changes in light intensity are not easy to see.

  - (b) Turn the applicable PANEL control clockwise to the full BRIGHT position.
  - (c) Make sure that the lightplate comes on brightly.
  - (d) Turn the applicable PANEL control counterclockwise to the OFF position.

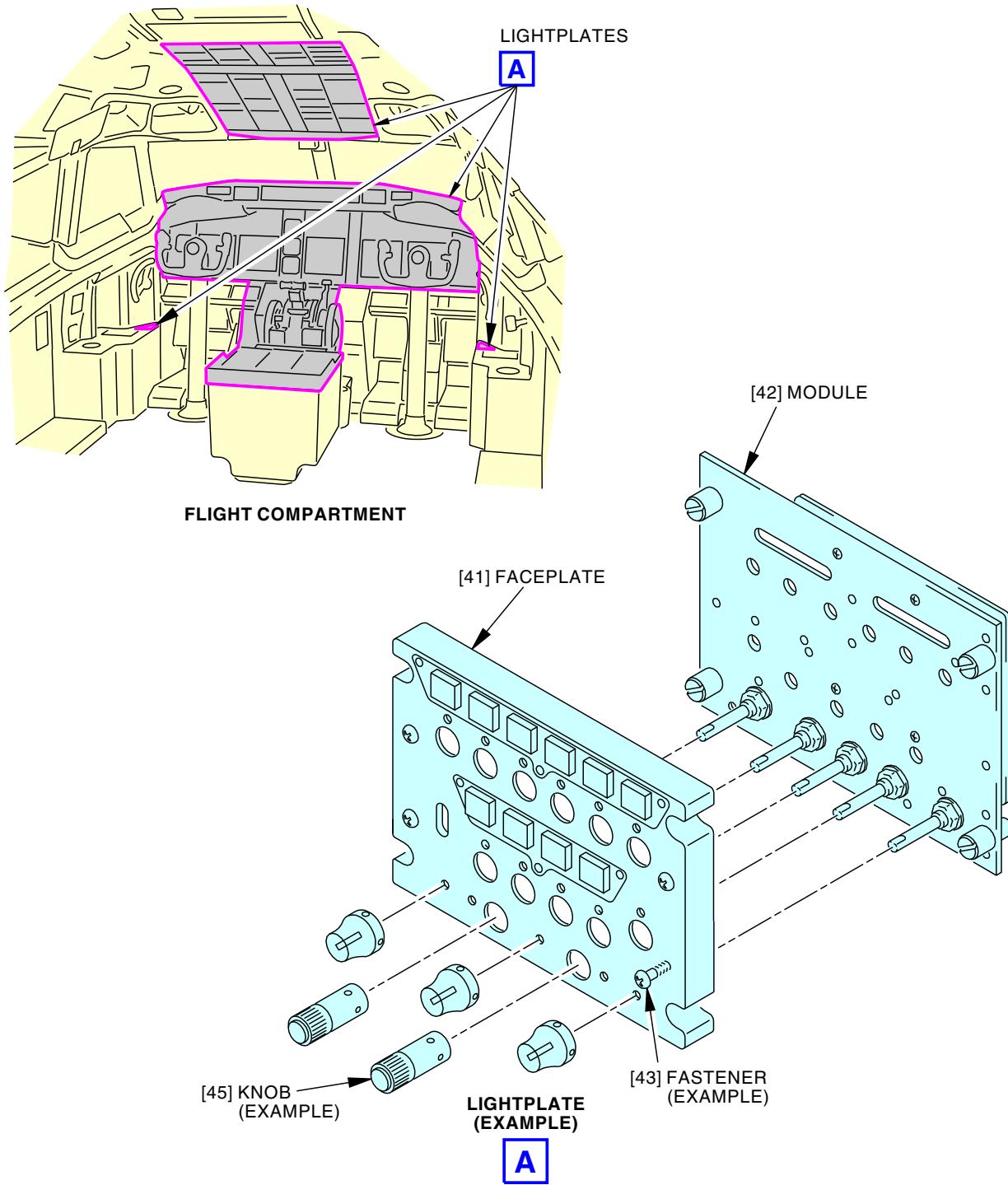
SUBTASK 33-18-00-940-007

- (3) If a windshield cover, STD-1176, was used on the windshield, remove it.

———— END OF TASK ————

EFFECTIVITY  
LOM ALL

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G44026 S0006575984\_V3

**Lightplate Replacement**  
**Figure 204/33-18-00-990-804**

 EFFECTIVITY  
 LOM ALL

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**TASK 33-18-00-960-805**

**8. Annunciator And Dimming Module - Module Replacement**

(Figure 205)

**A. General**

- (1) The annunciator and dimming module is located above access panels in the top of the nose landing gear wheel well and is mounted to the J19 panel which is fastened to the bottom of the flight compartment floor.
- (2) This task provides instructions to replace the annunciator and dimming module:

**B. References**

<b>Reference</b>	<b>Title</b>
53-14-01-020-801	Nose Wheel Well Access Panels - Removal (P/B 401)
53-14-01-420-801	Nose Wheel Well Access Panels - Installation (P/B 401)

**C. Location Zones**

<b>Zone</b>	<b>Area</b>
110	Subzone - Body Station 130 to Station 396

**D. Access Panels**

<b>Number</b>	<b>Name/Location</b>
113AC	Fwd Nose Wheel Well Upper Access Panel
114AC	Fwd Nose Wheel Well Upper Access Panel

**E. Annunciator And Dimming Module Replacement**

SUBTASK 33-18-00-860-015

- (1) Remove the applicable access panels:

(Nose Wheel Well Access Panels - Removal, TASK 53-14-01-020-801)

<b>Number</b>	<b>Name/Location</b>
113AC	Fwd Nose Wheel Well Upper Access Panel
114AC	Fwd Nose Wheel Well Upper Access Panel

SUBTASK 33-18-00-860-016

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

**CAPT Electrical System Panel, P18-1**

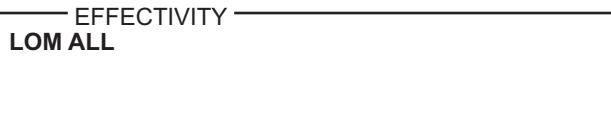
<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
D	3	C01048	AFCS SYS A ENGAGE INTLK

**F/O Electrical System Panel, P6-2**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
A	21	C00396	FIRE PROT DETECTION MA WRN & CONT
B	4	C00716	AFCS SYS B ENGAGE INTLK

**F/O Electrical System Panel, P6-3**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
B	12	C00132	MASTER CAUTION ANNUNCIATOR BUS 1
B	13	C00131	MASTER CAUTION ANNUNCIATOR BAT
D	11	C00133	INDICATOR MASTER DIM DIM/TST CONT



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**F/O Electrical System Panel, P6-4**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
E	15	C00134	DC BUS INDICATION HOT BAT

SUBTASK 33-18-00-960-005

- (3) Do these steps to remove the annunciator and dimming module, M469:
  - (a) Disconnect the connectors [1] from the annunciator and dimming module, M469, and move them to one side.
  - (b) When you hold the annunciator and dimming module, M469, in place, remove the mounting bolts [2] that attach the annunciator and dimming module, M469, to the J19 panel.
  - (c) Remove the annunciator and dimming module, M469.

SUBTASK 33-18-00-960-006

- (4) Do these steps to install the annunciator and dimming module, M469:
  - (a) Position the new annunciator and dimming module, M469, on the J19 panel.
  - (b) Install the mounting bolts [2] that attach the new annunciator and dimming module, M469, to the J19 panel.
  - (c) Reconnect connectors [1] to the annunciator and dimming module, M469.

SUBTASK 33-18-00-860-017

- (5) Install these access panels:

(Nose Wheel Well Access Panels - Installation, TASK 53-14-01-420-801)

**Number      Name/Location**

113AC	Fwd Nose Wheel Well Upper Access Panel
114AC	Fwd Nose Wheel Well Upper Access Panel

SUBTASK 33-18-00-860-018

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

**CAPT Electrical System Panel, P18-1**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	3	C01048	AFCS SYS A ENGAGE INTLK

**F/O Electrical System Panel, P6-2**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	21	C00396	FIRE PROT DETECTION MA WRN & CONT
B	4	C00716	AFCS SYS B ENGAGE INTLK

**F/O Electrical System Panel, P6-3**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	12	C00132	MASTER CAUTION ANNUNCIATOR BUS 1
B	13	C00131	MASTER CAUTION ANNUNCIATOR BAT
D	11	C00133	INDICATOR MASTER DIM DIM/TST CONT

**F/O Electrical System Panel, P6-4**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
E	15	C00134	DC BUS INDICATION HOT BAT

EFFECTIVITY  
LOM ALL

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SUBTASK 33-18-00-710-007

- (7) Test the new annunciator and dimming module:  
(a) Do this task: Master Dim and Test - Operational Test, TASK 33-18-00-710-802.

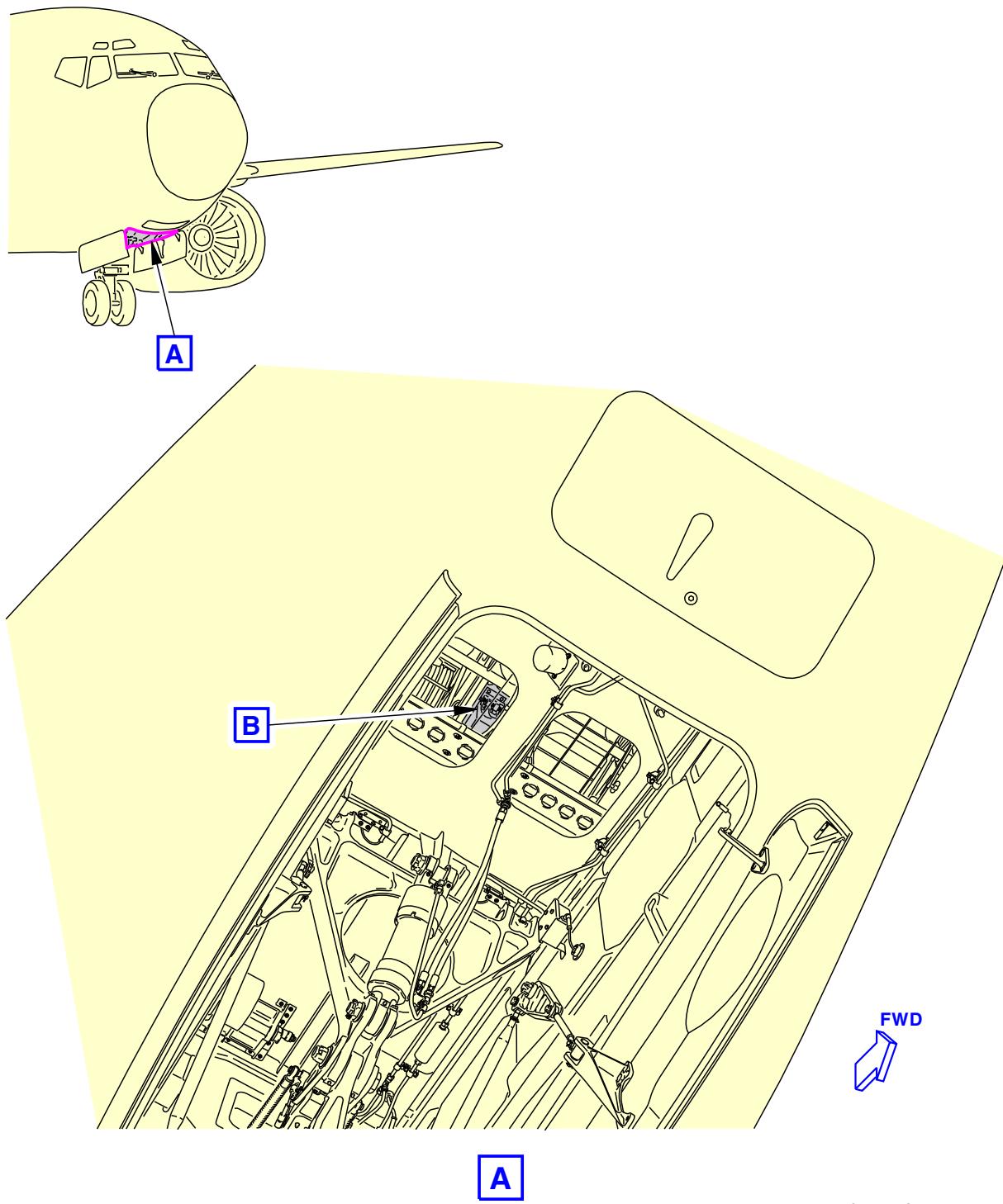
———— END OF TASK ————

— EFFECTIVITY —  
**LOM ALL**

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G89602 S0006575986\_V2

**Annunciation and Dimming Module, M469 - Removal and Installation**  
**Figure 205/33-18-00-990-805 (Sheet 1 of 2)**

EFFECTIVITY  
LOM ALL

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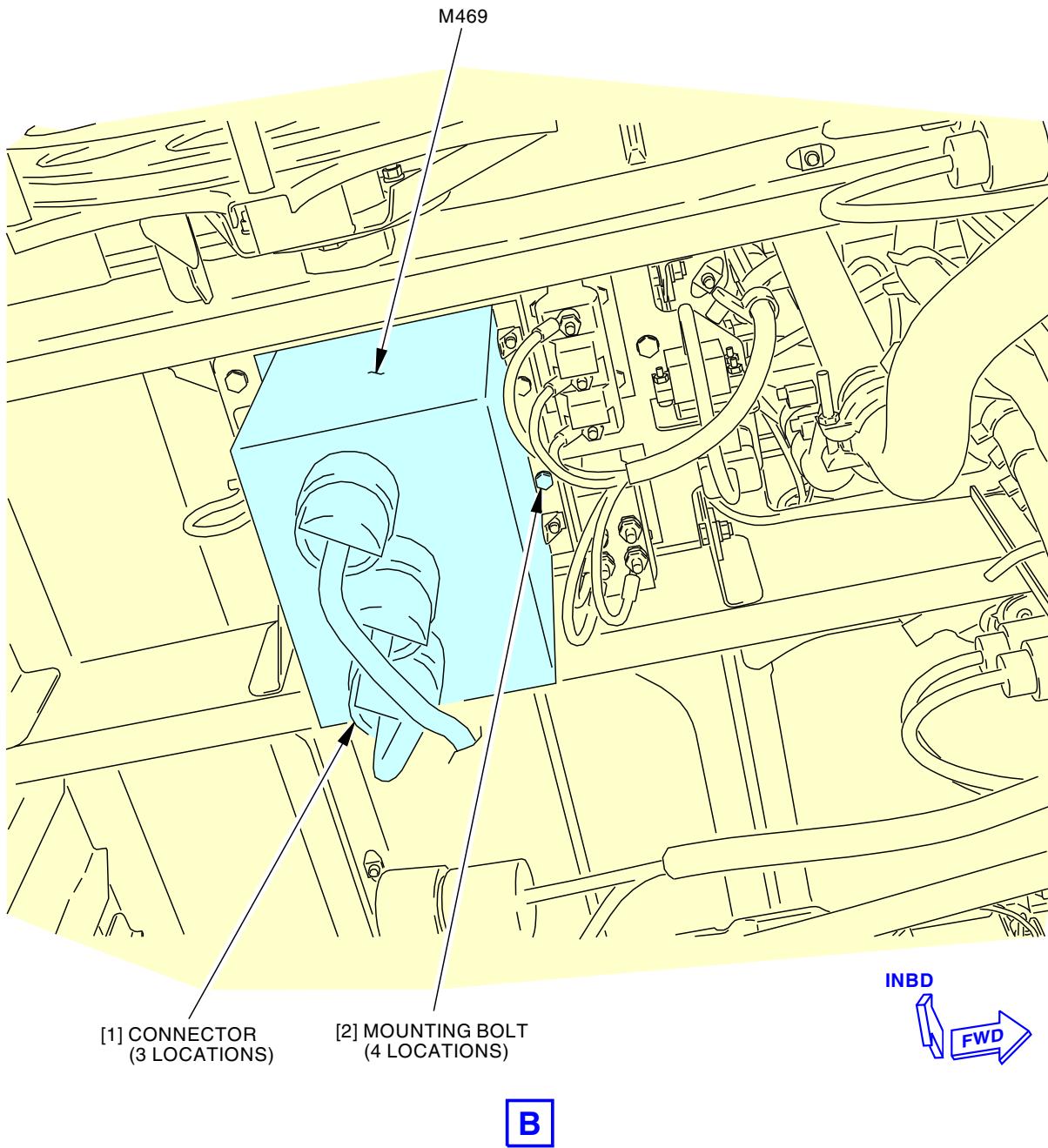
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M23265 S0006575987\_V2

**Annunciation and Dimming Module, M469 - Removal and Installation**  
Figure 205/33-18-00-990-805 (Sheet 2 of 2)

EFFECTIVITY  
LOM ALL

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TASK 33-18-00-960-806

9. Master Dim and Test System - Module Replacement

A. General

- (1) The Master Dim and Test System has two dim/test modules. The modules are M564 master dim/test module and M1456 aux dim/test module. The M564 master dim/test module is a circuit card assembly.
- (2) The modules are installed in the P6 panel.

B. References

Reference	Title
24-22-00-860-812	Remove Electrical Power (P/B 201)

C. Location Zones

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

D. Prepare for the Replacement

SUBTASK 33-18-00-860-019

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

F/O Electrical System Panel, P6-3

Row	Col	Number	Name
D	11	C00133	INDICATOR MASTER DIM DIM/TST CONT
D	12	C00310	INDICATOR MASTER DIM BAT
D	13	C00311	INDICATOR MASTER DIM BUS 1
D	14	C00312	INDICATOR MASTER DIM BUS 2

E. Procedure

SUBTASK 33-18-00-960-007

- (1) Do these steps to replace the M564 master dim/test module [81]:

NOTE: The M564 master dim/test module is a circuit card assembly.

- (a) Open the P6-3 circuit breaker panel.
- (b) Turn the screws [83] to unlock the module retainer [82] from the P6 panel.
- (c) Open the module retainer [82].
- (d) Remove the master dim/test module [81] from circuit card slot in the P6 panel.
- (e) Install the new master dim/test module [81] into the circuit card slot.
- (f) Close the module retainer [82].
- (g) Turn the screws [83] to lock the module retainer [82] to the P6 panel.
- (h) Close the P6-3 circuit breaker panel.

SUBTASK 33-18-00-960-008

- (2) Do these steps to replace the M1456 aux dim/test module [84]:

- (a) Open the P6-4 circuit breaker panel.
- (b) Remove the screws [85] that attach the aux dim/test module [84] to the P6 panel.
- (c) Disconnect the connector [86] from the aux dim/test module [84].
- (d) Remove the aux dim/test module [84].

EFFECTIVITY  
LOM ALL

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- (e) Connect the connector [86] to the new aux dim/test module [84].
- (f) Put the new aux dim/test module [84] in its position in the P6 panel.
- (g) Install the screws [85] that attach the new aux dim/test module [84] to the P6 panel.
- (h) Close the P6-4 circuit breaker panel.

SUBTASK 33-18-00-860-020

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

**F/O Electrical System Panel, P6-3**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	11	C00133	INDICATOR MASTER DIM DIM/TST CONT
D	12	C00310	INDICATOR MASTER DIM BAT
D	13	C00311	INDICATOR MASTER DIM BUS 1
D	14	C00312	INDICATOR MASTER DIM BUS 2

SUBTASK 33-18-00-710-008

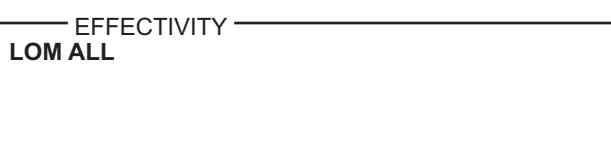
- (4) Do this task: Master Dim and Test - Operational Test, TASK 33-18-00-710-802.

**F. Put the Airplane Back to Its Usual Condition**

SUBTASK 33-18-00-860-021

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

———— END OF TASK ————

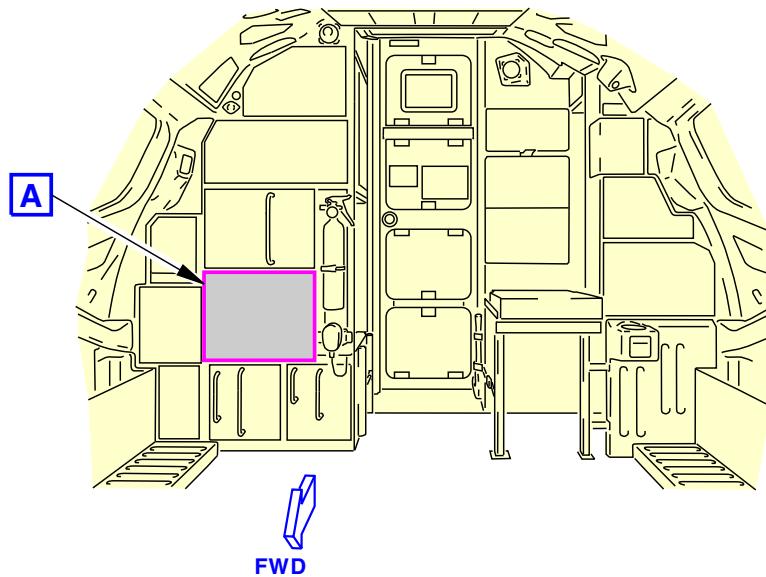


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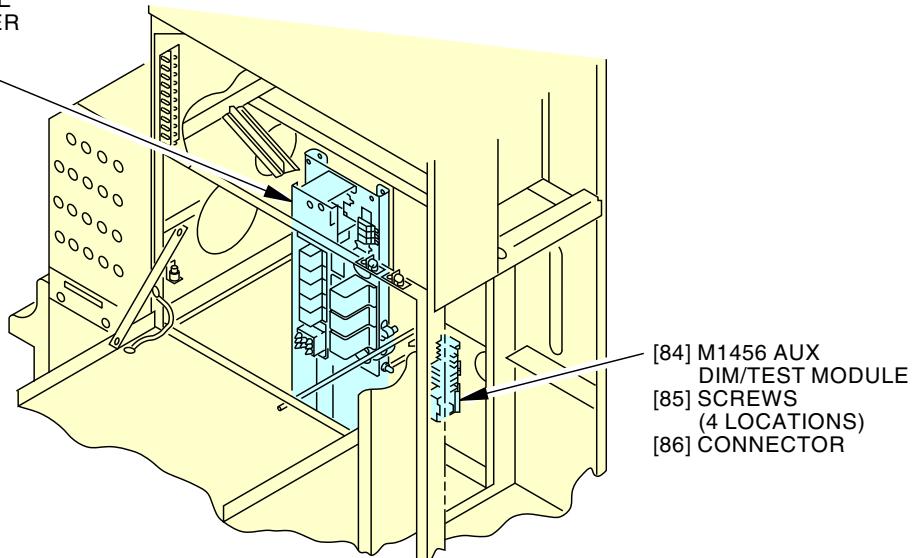
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- [81] M564 MASTER DIM/TEST MODULE
- [82] MODULE RETAINER
- [83] SCREWS (2 LOCATIONS)



(PANEL NOT SHOWN)

**A**

2028704 S0000404198\_V2

**Master Dim and Test System - Module Replacement**  
**Figure 206/33-18-00-990-807**

EFFECTIVITY  
**LOM ALL**

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**TASK 33-18-00-710-802**

**10. Master Dim and Test - Operational Test**

(Figure 207)

**A. General**

- (1) This test makes sure the master dim and test system operates.

**B. References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)

**C. Tools/Equipment**

Reference	Description
STD-1176	Cover - Windshield Blackout Screen

**D. Location Zones**

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

**E. Procedure**

SUBTASK 33-18-00-860-011

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

SUBTASK 33-18-00-940-008

- (2) On a bright day, put a windshield cover, STD-1176 on the windshield to make it easier to do this test.

SUBTASK 33-18-00-860-012

- (3) Prepare to do the test:

- (a) At the overhead panel, P5, do these steps:
  - 1) Set the emergency light switch to ARMED.
  - 2) Set the air conditioning switches to AUTO.
  - 3) Set the left and right mode select switches to ALIGN.
  - 4) Set the yaw damper switch to ON.
- (b) At the control stand, P10, release the parking brake.
- (c) Open this circuit breaker and install safety tag:

**F/O Electrical System Panel, P6-3**

Row	Col	Number	Name
E	1	C00137	DOOR LOCK

SUBTASK 33-18-00-710-006

- (4) Do a test of the annunciators, pushbutton switches, and Liquid Crystal Display (LCD) segments connected to the master dim and test system (WDM 33-18-11 thru 33-18-99):

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LOM ALL

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- (a) At the captain's main instrument panel, P1, set the switch for the master dim and test lights to TEST.

NOTE: The CMD and CWS pushbuttons on Honeywell MCP (part number 4082260-937/-939) will not illuminate.

NOTE: The CMD and CWS pushbuttons on Collins MCP (part number 822-1567-101/-102) will illuminate.

- (b) On these panels, make sure the lamps in the annunciators come on brightly:

- 1) Captain's main instrument panel, P1
- 2) Center main instrument panel, P2
- 3) F/O's main instrument panel, P3
- 4) Overhead panel, P5
- 5) Glareshield panel, P7
- 6) Aft electronics panel, P8

NOTE: The fire warning lights are not checked during this test.

- a) To complete the test of the wheel well warning light and engine start lever lamp warning light, set the test switch to the OVHT/FIRE position, then back to its usual position.

- 7) Forward electronics panel, P9

NOTE: You will find five annunciators on each CDU; DSPY (or CALL), FAIL, MSG, OFST, and EXEC.

- 8) Control stand, P10

- a) Make sure that the parking brake light is on.

- (c) On the P5 panel, make sure the lamps in the pushbutton switches (engine module, P5-68) come on brightly.

- (d) Make sure the LCD segments on these panels come on for 2 seconds then go off for 1 second:

- 1) Captain's main instrument panel, P1
- 2) F/O's main instrument panel, P3
- 3) Overhead panel, P5
- 4) Glareshield panel, P7
- 5) Aft electronics panel, P8

- (e) At the P1 panel, set the switch for the master dim and test lights to the usual mode.

**SUBTASK 33-18-00-860-013**

- (5) Put the airplane back to its usual condition:

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

**F/O Electrical System Panel, P6-3**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
E	1	C00137	DOOR LOCK

- (b) If necessary, at the P10 panel, set the parking brake.

- (c) At the P5 panel, do these steps:

- 1) Set the emergency light switch to the usual mode.

EFFECTIVITY  
LOM ALL

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- 2) Set the air conditioning switches to the usual mode.
- 3) Set the yaw damper switch to usual mode.
- 4) Set the left and right mode select switches to the usual mode.

SUBTASK 33-18-00-940-009

- (6) If a windshield cover, STD-1176 was used on the windshield, remove it.

SUBTASK 33-18-00-860-014

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

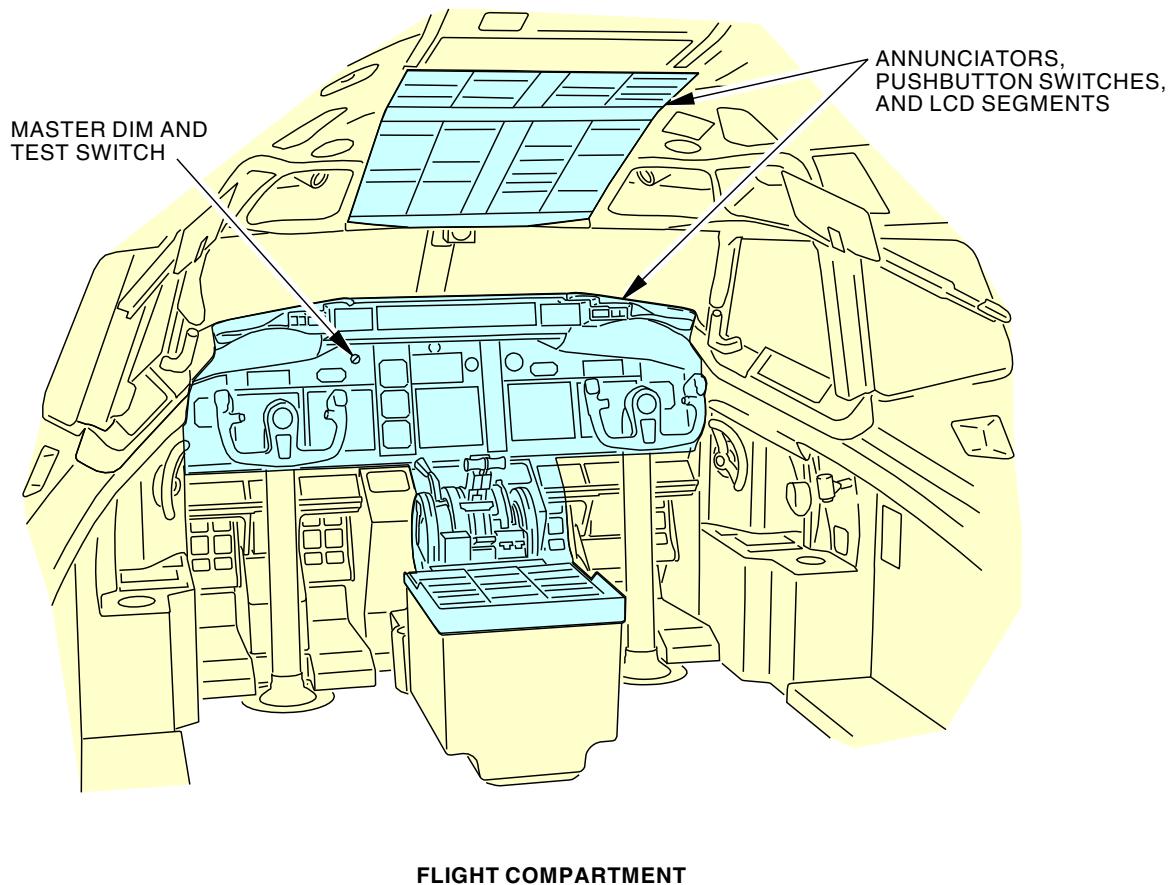
———— END OF TASK ————

EFFECTIVITY  
LOM ALL

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FLIGHT COMPARTMENT

M23240 S0006575989\_V2

**Master Dim and Test System Test**  
**Figure 207/33-18-00-990-806**

EFFECTIVITY  
LOM ALL

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PASSENGER COMPARTMENT LIGHTS - ADJUSTMENT/TEST

**1. General**

- A. This procedure contains scheduled maintenance task data.
- B. Scheduled maintenance task:
  - (1) Passenger Compartment Lights - Operational Tests

**LOM 427-434, 437-447, 450-999**

- C. Other maintenance task:
  - (1) Passenger Compartment Lights - BSI Generation 3 OPS LSAP Loading

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

**TASK 33-20-00-710-801-001**

**2. Passenger Compartment Lights - Operational Test**

**A. General**

- (1) This procedure includes operational tests of these components:
  - (a) Window lights
  - (b) Ceiling lights
  - (c) Night lights
  - (d) Reading lights
  - (e) Information signs
  - (f) Attendant work lights
  - (g) Galley lights
  - (h) Lavatory mirror lights
  - (i) Lavatory-occupied signs
  - (j) Passenger call lights
  - (k) Lavatory call lights
  - (l) Entry lights

**B. References**

Reference	Title
23-41-00-710-801	Service Interphone System - Operational Test (P/B 501)
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
29-11-00-860-801	Hydraulic System A or B Pressurization (P/B 201)
29-11-00-860-805	Hydraulic System A or B Power Removal (P/B 201)
32-00-01-480-801	Landing Gear Downlock Pins Installation (P/B 201)
WDM 33-21-11	Wiring Diagram Manual
WDM 33-21-21	Wiring Diagram Manual
WDM 33-22-11	Wiring Diagram Manual
WDM 33-22-32	Wiring Diagram Manual
WDM 33-22-XX	Wiring Diagram Manual
WDM 33-23-XX	Wiring Diagram Manual

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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)**

(Continued)

<b>Reference</b>	<b>Title</b>
WDM 33-26-11	Wiring Diagram Manual
WDM 33-26-21	Wiring Diagram Manual
WDM 33-26-31	Wiring Diagram Manual
WDM 33-27-11	Wiring Diagram Manual
WDM 33-27-XX	Wiring Diagram Manual
WDM 33-29-11	Wiring Diagram Manual

**C. Location Zones**

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

**D. Procedure**

SUBTASK 33-20-00-860-001-001

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

SUBTASK 33-20-00-710-001-001

- (2) Do a test of the window lights (WDM 33-21-11 WDM 33-21-21):

- (a) At each applicable attendant panel, set each switch for the window lights to the BRT mode.
  - 1) Make sure the window lights come on brightly.
- (b) Set the switch to the DIM mode.
  - 1) Make sure the lights become dim.
- (c) Set the switch to the OFF mode.
  - 1) Make sure the lights go off.
- (d) Set the switch to the usual mode.

SUBTASK 33-20-00-710-002-001

- (3) Do a test of the ceiling lights (WDM 33-22-XX):

- (a) At each applicable attendant panel, set each switch for the ceiling lights to the BRT mode.
  - 1) Make sure the ceiling lights come on brightly.
- (b) Set the switch to the MED mode.
  - 1) Make sure the lights become less bright.
- (c) Set the switch to the DIM mode.
  - 1) Make sure the lights become dim.
- (d) Set the switch to the OFF mode.
  - 1) Make sure the lights go off.
- (e) Set the switch to the usual mode.

SUBTASK 33-20-00-710-004-001

- (4) Do a test of the night lights (WDM 33-22-11 thru WDM 33-22-32):

- (a) At each applicable attendant panel, set each switch for the night lights to the NIGHT mode.

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LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)

- 1) Make sure the night lights come on.
- (b) Set the switch to the OFF mode.
  - 1) Make sure the lights go off.
  - (c) Set the switch to the usual mode.

SUBTASK 33-20-00-710-005-001

- (5) Do a test of the reading lights (WDM 33-23-XX):

- (a) At each passenger seat, set the switch for the reading light to the ON mode.
  - 1) Make sure the reading light comes on.
- (b) Set the switch to the OFF mode.
  - 1) Make sure the light goes off.
- (c) Set the switch to the usual mode.

LOM 402, 404, 406, 407, 412, 415, 416, 420, 423, 424, 426; AIRPLANES WITH NO-SMOKING SIGNS PERMANENTLY ILLUMINATED

SUBTASK 33-20-00-710-007-001

- (6) Do a test of the information signs:

NOTE: On some airplanes the no-smoking switch on the P5 panel will not operate the signs. The switch will have a INOP placard. On other airplanes the no-smoking switch will not operate the painted no-smoking signs. On some of these airplanes, the switch is connected to the service interphone system and will have a CHIME ONLY placard (Service Interphone System - Operational Test, TASK 23-41-00-710-801). On the remaining airplanes the electrically illuminated no-smoking signs have been revised to remain on at all times. The no-smoking switch on the P5 panel will not operate these signs. The switch will have an INOP placard.

- (a) Make sure the no-smoking sign comes on when electrical power is supplied.

NOTE: The switch for no-smoking does not operate.

- (b) Set the FASTEN BELT switch on the overhead panel, P5, to ON.

- 1) Make sure that these information signs are on:

- a) FASTEN SEAT BELT
  - b) RETURN TO SEAT

- (c) Set the FASTEN BELT switch to OFF.

- 1) Make sure the information signs are off.



**WARNING** MAKE SURE THAT THE DOWNLOCK PINS ARE INSTALLED ON ALL THE LANDING GEAR. WITHOUT THE DOWNLOCK PINS, THE LANDING GEAR CAN RETRACT. THIS CAN CAUSE INJURIES TO PERSONS, AND DAMAGE TO EQUIPMENT.

- (d) Make sure the ground locks are installed on the nose and main landing gear. If the downlock pins are not installed in the nose and main landing gear, do this task: Landing Gear Downlock Pins Installation, TASK 32-00-01-480-801.

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LOM 402, 404, 406, 407, 412, 415, 416, 420, 423, 424, 426; AIRPLANES WITH NO-SMOKING SIGNS  
PERMANENTLY ILLUMINATED (Continued)



**WARNING**

KEEP PERSONS AND EQUIPMENT AWAY FROM THE FLIGHT CONTROL SURFACES. THE AILERONS, ELEVATORS, RUDDER, FLAPS, SLATS, SPOILERS, STABILIZER AND NOSE GEAR CAN MOVE SUDDENLY WHEN YOU SUPPLY HYDRAULIC POWER. THIS CAN CAUSE INJURY TO PERSONS AND DAMAGE TO EQUIPMENT.

- (e) Supply hydraulic power to hydraulic systems A and B. To supply hydraulic power, do this task: Hydraulic System A or B Pressurization, TASK 29-11-00-860-801.
- (f) Move the FLAP CONTROL lever to the UP position.
- (g) Move the LANDING GEAR lever to the OFF position.
- (h) Set the FASTEN BELT switch to AUTO.
  - 1) Make sure that all the information signs are off.
- (i) Move the FLAP CONTROL lever to POSITION 2.
  - 1) Make sure that all the information signs are on.
- (j) Move the FLAP CONTROL lever to POSITION 0.
  - 1) Make sure that all the information signs are off.
- (k) Move the LANDING GEAR lever to the DN position.
  - 1) Make sure that all the information signs are on.
- (l) Move the LANDING GEAR lever to the OFF position.
  - 1) Make sure that the information signs are off.
- (m) Set the FASTEN BELTS switch to OFF.
  - 1) Make sure that all the information signs stay off.
- (n) Move the LANDING GEAR lever to the DN position.
- (o) Set the switch for the seat belts to the usual mode.
- (p) Remove hydraulic power from hydraulic systems A and B. To remove hydraulic power, do this task: Hydraulic System A or B Power Removal, TASK 29-11-00-860-805.

**LOM 411, 422, 425**

SUBTASK 33-20-00-710-042

- (7) Do a test of the information signs:

NOTE: The NO-SMOKING sign is not lighted and the no-smoking switch on the P5 panel will not operate these signs. The switch will have a INOP or a CHIME ONLY placard.

- (a) Set the FASTEN BELT switch on the overhead panel, P5, to ON.
  - 1) Make sure that these information signs are on:
    - a) FASTEN SEAT BELT
    - b) RETURN TO SEAT
- (b) Set the FASTEN BELT switch to OFF.
  - 1) Make sure the information signs are off.

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LOM 411, 422, 425 (Continued)



MAKE SURE THAT THE DOWNLOCK PINS ARE INSTALLED ON ALL THE LANDING GEAR. WITHOUT THE DOWNLOCK PINS, THE LANDING GEAR CAN RETRACT. THIS CAN CAUSE INJURIES TO PERSONS, AND DAMAGE TO EQUIPMENT.

- (c) Make sure the ground locks are installed on the nose and main landing gear. If the downlock pins are not installed in the nose and main landing gear, do this task: Landing Gear Downlock Pins Installation, TASK 32-00-01-480-801.



KEEP PERSONS AND EQUIPMENT AWAY FROM THE FLIGHT CONTROL SURFACES. THE AILERONS, ELEVATORS, RUDDER, FLAPS, SLATS, SPOILERS, STABILIZER AND NOSE GEAR CAN MOVE SUDDENLY WHEN YOU SUPPLY HYDRAULIC POWER. THIS CAN CAUSE INJURY TO PERSONS AND DAMAGE TO EQUIPMENT.

- (d) Supply hydraulic power to hydraulic systems A and B. To supply hydraulic power, do this task: Hydraulic System A or B Pressurization, TASK 29-11-00-860-801.
- (e) Move the FLAP CONTROL lever to the UP position.
- (f) Move the LANDING GEAR lever to the OFF position.
- (g) Set the FASTEN BELT switch to AUTO.
- 1) Make sure that all the information signs are off.
- (h) Move the FLAP CONTROL lever to POSITION 2.
- 1) Make sure that all the information signs are on.
- (i) Move the FLAP CONTROL lever to POSITION 0.
- 1) Make sure that all the information signs are off.
- (j) Move the LANDING GEAR lever to the DN position.
- 1) Make sure that all the information signs are on.
- (k) Move the LANDING GEAR lever to the OFF position.
- 1) Make sure that the information signs are off.
- (l) Set the FASTEN BELTS switch to OFF.
- 1) Make sure that all the information signs stay off.
- (m) Move the LANDING GEAR lever to the DN position.
- (n) Set the switch for the seat belts to the usual mode.
- (o) Remove hydraulic power from hydraulic systems A and B. To remove hydraulic power, do this task: Hydraulic System A or B Power Removal, TASK 29-11-00-860-805.

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

SUBTASK 33-20-00-710-008-001

- (8) Do a test of the attendant work lights (WDM 33-26-11):
- (a) At the adjacent attendant panel, set the switch for each attendant work light to the ON mode.
- 1) Make sure the attendant work light comes on.
  - 2) Make sure the light in the switch comes on.
- (b) Set the switch to the OFF mode.

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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)**

- 1) Make sure the attendant work light goes off.
- 2) Make sure the light in the switch goes off.

**SUBTASK 33-20-00-710-009-001**

(9) Do a test of the galley lights (WDM 33-26-21):

- (a) Set the switch for each work light to the ON mode (if applicable).
  - 1) Make sure the work light comes on (if applicable).
- (b) Set the switch to the OFF mode (if applicable).
  - 1) Make sure the light goes off (if applicable).
- (c) Set the switch for the galley lights to the BRT mode.
  - 1) Make sure the lights come on brightly.
- (d) Set the switch to the DIM mode.
  - 1) Make sure the lights become dim.
- (e) Set the switch to the OFF mode.
  - 1) Make sure the lights go off.

**SUBTASK 33-20-00-710-010-001**

(10) Do a test of the lavatory mirror lights (WDM 33-26-31):

- (a) At each lavatory, open the lavatory door.
  - 1) Make sure the incandescent lamp is on.  
NOTE: The incandescent lamp comes on when electrical power is supplied to the airplane.
  - 2) Make sure the fluorescent lamps are Off.
- (b) Go in the lavatory and lock the door.
  - 1) Make sure the fluorescent lamps come on brightly.
- (c) Unlock the door.
  - 1) Make sure the fluorescent lamps go to Off.
  - 2) Make sure the incandescent lamp stays on.
- (d) Leave the lavatory and close the lavatory door.

**SUBTASK 33-20-00-710-011-001**

(11) Do a test of each lavatory-occupied sign:

NOTE: Use two people to do this part of the test.

- (a) Make sure lamps behind the lavatory symbol are on.  
NOTE: The lamps come on when electrical power is supplied to the airplane.
- (b) Make sure the lamps behind the occupied symbol are off.
- (c) Go in the lavatory and lock the door.  
NOTE: For airplanes with multiple lavatories in the aft cabin, the lavatory-occupied sign comes on when all lavatories in the aft cabin are locked.
  - 1) Make sure the lamps behind the occupied symbol come on.
- (d) Leave the lavatory and close the lavatory door.
  - 1) Make sure the lamps behind the occupied symbol go off.

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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)**

- 2) Make sure the lamps behind the lavatory symbol stay on.

SUBTASK 33-20-00-860-002-001

- (12) Do a test of the passenger call lights (WDM 33-27-XX):
  - (a) At each passenger service unit (PSU), set the call switch to the ON mode.
    - 1) Make sure the call light on the PSU comes on.
    - 2) Make sure the blue call light in the exit signs near the forward and aft doors comes on.

NOTE: A call-select switch, if installed, on the PSU lets you send the call signal to the forward or the aft exit sign.

  - (b) Set the call switch to the OFF mode.
    - 1) Make sure the call light on the PSU goes off.
    - 2) Make sure the blue call light in the exit sign(s) near the forward and aft (if applicable) door(s) go(es) off.

SUBTASK 33-20-00-710-012-001

- (13) Do a test of the lavatory call light system (WDM 33-27-11):
  - (a) Set the call switch in the lavatory to the ON mode.
    - 1) Make sure the light in the call switch comes on.
    - 2) Make sure the call light/reset switch outside the lavatory comes on.
    - 3) Make sure the amber call light(s) in the exit sign(s) near the forward and aft (if applicable) door(s) come(s) on.
  - (b) Push the call light/reset switch outside the lavatory to the OFF mode.
    - 1) Make sure the call light/reset switch goes off.
    - 2) Make sure the light in the call switch in the lavatory goes off.
    - 3) Make sure the amber call light(s) in the exit sign(s) near the forward and aft (if applicable) door(s) go(es) off.

SUBTASK 33-20-00-710-013-001

- (14) Do a test of the forward entry lights (WDM 33-29-11):
  - (a) At the forward entry panel, set the switch for the entry lights to the OFF mode.
  - (b) At the pilots overhead panel, P5, set the BAT switch to the ON mode.
    - 1) Make sure the lights in the forward entry light assembly come on.
    - 2) Make sure the fluorescent lamps in the forward entry light assembly go off.

**LOM 402, 404, 406, 407, 420, 422, 425, 426 PRE SB 737-25-1689**

- 3) Make sure the forward threshold light near the passenger entry door goes off.

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

- (c) Set the BAT switch to the usual mode.
- (d) In the passenger compartment at the forward entry panel, set the switch for the entry lights to the DIM mode.
  - 1) Make sure the incandescent entry lights in the forward entry light assembly stay on.
  - 2) Make sure the fluorescent lamps in the forward entry light assembly come on dimly.

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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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**LOM 402, 404, 406, 407, 420, 422, 425, 426 PRE SB 737-25-1689**

- 3) Make sure the forward threshold light near the passenger entry door stays off.

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

- (e) At the forward entry panel, set the switch for the entry lights to the BRT mode.
  - 1) Make sure the incandescent entry lights in the forward entry light assembly stay on.
  - 2) Make sure the fluorescent lamps in the forward entry light assembly come on brightly.

**LOM 402, 404, 406, 407, 420, 422, 425, 426 PRE SB 737-25-1689**

- 3) Make sure the forward threshold light near the passenger entry door comes on.

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

- (f) At the forward entry panel, set the switch for the entry lights to the usual mode.

SUBTASK 33-20-00-710-016-001

- (15) Do a test of the aft entry lights (WDM 33-29-11):

- (a) At the aft entry panel, set the switch for the entry lights to the OFF mode.
- (b) At the pilots overhead panel, P5, set the BAT switch to the ON mode.
  - 1) Make sure the light in the aft entry light assembly comes on.
  - 2) Make sure the fluorescent lamps in the aft entry light assembly go off.
- (c) Set the BAT switch to the usual mode.
- (d) In the passenger compartment at the aft entry panel, set the switch for the entry lights to the DIM mode.
  - 1) Make sure the incandescent entry light in the aft entry light assembly stays on.
  - 2) Make sure the fluorescent lamps in the aft entry light assembly come on dimly.
- (e) At the aft entry panel, set the switch for the entry lights to the BRT mode.
  - 1) Make sure the incandescent entry light in the aft entry light assembly stays on.
  - 2) Make sure the fluorescent lamps in the aft entry light assembly come on brightly.
- (f) At the aft entry panel, set the switch for the entry lights to the usual mode.

SUBTASK 33-20-00-860-003-001

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

———— END OF TASK ————

**LOM 427-434, 437-447, 450-999**

**TASK 33-20-00-710-804-001**

**3. Passenger Compartment Lights - Operational Test**

**A. General**

- (1) Do the applicable operational test for the light section that you replaced.
- (2) This procedure includes operational tests of these components:
  - (a) Passenger seating area:
    - 1) Window and Overwing Exit lights
    - 2) Bin/Wash Ceiling lights
    - 3) Center Overhead Stowage lights

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**LOM 427-434, 437-447, 450-999 (Continued)**

- 4) Direct lights
- 5) Cove lights.
- (b) Forward/Aft entry area:
  - 1) Direct Entry lights

**LOM 461-463, 466-999; LOM 427-431, 433, 434 PRE SB 737-25-1689**

- 2) Incandescent Threshold light

**LOM 427-434, 437-447, 450-999**

- 3) Attendant Work lights.
- (c) Information signs
- (d) Lavatory mirror lights
- (e) Lavatory-occupied signs
- (f) Passenger call lights
- (g) Lavatory call lights.

**B. References**

<b>Reference</b>	<b>Title</b>
23-41-00-710-801	Service Interphone System - Operational Test (P/B 501)
29-11-00-860-801	Hydraulic System A or B Pressurization (P/B 201)
29-11-00-860-805	Hydraulic System A or B Power Removal (P/B 201)
32-00-01-080-801	Landing Gear Downlock Pins Removal (P/B 201)
32-00-01-480-801	Landing Gear Downlock Pins Installation (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)

**C. Location Zones**

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

**D. Prepare for the Operational Test**

SUBTASK 33-20-00-860-015

- (1) Make sure that the CAB/UTIL switch at the P5-13 panel is set to the ON position.

**E. Operational Test**

SUBTASK 33-20-00-710-043

**LOM 427-434, 437-447, 450-460, 464-999; AIRPLANES WITH BSI GEN 2 OR GEN 3**

- (1) Do a LAMP TEST from the attendant control panel.
  - (a) Make sure that the attendant control panel display is activated.
    - 1) To activate it, touch the opposite corners of the display sequentially within two seconds.
  - (b) If necessary, input the password to get access to the attendant control panel.
  - (c) At the ACP, set lights to the ON mode.
  - (d) Use the ACP maintenance display.
    - 1) On the ACP display, touch the MAINTENANCE tab.

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**LOM 427-434, 437-447, 450-460, 464-999; AIRPLANES WITH BSI GEN 2 OR GEN 3 (Continued)**

- 2) When the ACP changes to the maintenance display, touch LAMP TESTS.

**LOM 427-434, 437-447, 450-999**

- (2) Do a manual test of lights in the passenger seating area.

NOTE: The passenger seating area includes these lights: cove lights, direct lights, window lights, ceiling lights, and center overhead stowage lights.

**LOM 427-434, 439-447, 450-999**

- (a) Do a test of the lights in the passenger seating area:

NOTE: The lights can take at least 5 seconds to change.

- 1) Make sure that the attendant control panel display is activated.
  - a) To activate it, touch the opposite corners of the display sequentially within two seconds.
- 2) On the attendant control panel display, touch the Lighting tab.
- 3) Below the Passenger Seating Area, touch the White BRIGHT button.
  - a) Make sure that the lights come on brightly.
- 4) Below the Passenger Seating Area, touch the White MEDIUM button.
  - a) Make sure that the lights become medium.
- 5) Below the Passenger Seating Area, touch the Boarding/Deplane button.
  - a) Make sure that the lights in the passenger compartment are equivalent to the light type shown below the General Lighting Layout on the attendant control panel display.

NOTE: The lights can take at least 15 seconds to change.

- 6) Below the Passenger Seating Area, touch the OFF button.
  - a) Make sure that the lights go off.

**LOM 437, 438**

- (b) Do a test of the lights in the passenger seating area:

NOTE: The lights can take at least 5 seconds to change.

- 1) Make sure that the attendant control panel display is activated.
  - a) To activate it, touch the opposite corners of the display sequentially within two seconds.
- 2) On the attendant control panel display, touch the Lighting tab.
- 3) Below the Passenger Seating Area, touch the White BRIGHT button.
  - a) Make sure that the lights come on brightly.
- 4) Below the Passenger Seating Area, touch the Both Zones button.
- 5) Below the Passenger Seating Area, touch the White MEDIUM button.
  - a) Make sure that the lights become medium.
- 6) Below the Passenger Seating Area, touch the Boarding/Deplane button.

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**LOM 437, 438 (Continued)**

- a) Make sure that the lights in the passenger compartment are equivalent to the light type shown below the General Lighting Layout on the attendant control panel display.  
NOTE: The lights can take at least 15 seconds to change.
- 7) Below the Passenger Seating Area, touch the Forward Zone button.
- 8) Below the Passenger Seating Area, touch the Sunrise/Sunset button.
  - a) Make sure that the lights in the passenger compartment are equivalent to the light type shown below the General Lighting Layout on the attendant control panel display.  
NOTE: The lights can take at least 15 seconds to change.
- 9) Below the Passenger Seating Area, touch the Aft Zone button.
- 10) Below the Passenger Seating Area, touch the OFF button.
  - a) Make sure that the lights go off.

**LOM 427-434, 437-447, 450-999**

SUBTASK 33-20-00-710-044

- (3) Do a test of the lights in the forward and aft entry areas.
  - (a) Do a test of the lights in the forward entry area:
    - 1) On the attendant control panel display, touch the Lighting tab.
    - 2) Below the Forward Entry Area, Entry section, touch the White BRIGHT button.
      - a) Make sure that the direct entry light comes on brightly.

**LOM 461-463, 466-999; LOM 427-431, 433, 434 PRE SB 737-25-1689**

- b) Make sure that the threshold light comes on brightly.  
NOTE: Threshold light operation is connected to the forward direct entry light.  
The threshold light is only on when the forward direct entry light is set to white bright.

**LOM 427-434, 437-447, 450-999**

- 3) Below the Forward Entry Area, Entry section, touch the White MEDIUM button.
  - a) Make sure that the direct entry light becomes medium.

**LOM 461-463, 466-999; LOM 427-431, 433, 434 PRE SB 737-25-1689**

- b) Make sure that the threshold light goes off.  
NOTE: Threshold light operation is connected to the forward direct entry light.  
The threshold light is only on when the forward direct entry light is set to white bright.

**LOM 427-434, 437-447, 450-999**

- 4) Below the Forward Entry Area, Entry section, touch the OFF button.
  - a) Make sure that the direct entry light goes off.

**LOM 461-463, 466-999; LOM 427-431, 433, 434 PRE SB 737-25-1689**

- b) Make sure that the threshold light goes off.

**LOM 427-434, 437-447, 450-999**

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**LOM 427-434, 437-447, 450-999 (Continued)**

- 5) Below the Forward Entry Area, Work section, touch the button to set it to ON.
    - a) Make sure that the attendant work light comes on.

NOTE: In the forward entry area, the incandescent work light is aft of the dim entry LED light. The dim entry LED light is on when the airplane is supplied with external electrical power.
  - 6) Below the Forward Entry Area, Work section, touch the button to set it to OFF.
    - a) Make sure that the attendant work light goes off.

NOTE: In the forward entry area, the incandescent work light is aft of the dim entry LED light. The dim entry LED light is on when the airplane is supplied with external electrical power.
- (b) Do a test of the lights in the aft entry area:
- 1) On the attendant control panel display, touch the Lighting tab.
  - 2) Below the Aft Entry Area, Entry section, touch the White BRIGHT button.
    - a) Make sure that the direct entry lights come on brightly.
  - 3) Below the Aft Entry Area, Entry section, touch the White MEDIUM button.
    - a) Make sure that the direct entry lights become medium.
  - 4) Below the Aft Entry Area, Entry section, touch the OFF button.
    - a) Make sure that the direct entry lights go off.
  - 5) Below the Aft Entry Area, Work section, touch the button to set it ON.
    - a) Make sure that the attendant work lights come on.
  - 6) Below the Aft Entry Area, Work section, touch the button to set it OFF.
    - a) Make sure that the attendant work lights go off.

SUBTASK 33-20-00-710-045

- (4) Do a test of the ceiling lights during rapid decompression.
- (a) At the applicable attendant control panel, do these steps:
- 1) On the attendant control panel display, touch the Lighting tab.
  - 2) Below the Passenger Seating Area, touch the Cruise button.
    - a) Make sure that the lights in the passenger compartment are equivalent to the light type shown below the General Lighting Layout on the attendant control panel display.

NOTE: The lights can take at least 15 seconds to change.
  - 3) Touch this button:
    - White MEDIUM button below the Forward Entry Area, Entry section,
    - a) Make sure that the direct entry light becomes medium.

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**LOM 461-463, 466-999; LOM 427-431, 433, 434 PRE SB 737-25-1689**

- b) Make sure that the threshold light goes off.

NOTE: Threshold light operation is connected to the forward direct entry light.  
The threshold light is only on when the forward direct entry light is set to white bright.

**LOM 427-434, 437-447, 450-999**

- c) Make sure that the attendant work light stays off.

NOTE: In the forward entry area, the incandescent work light is aft of the dim entry LED light. The dim entry LED light is on when the airplane is supplied with external electrical power.

- 4) Touch this button:

- White MEDIUM button below the Aft Entry Area, Entry section,
  - a) Make sure that the direct entry lights become medium.
  - b) Make sure that the attendant work lights stay off.

- (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>
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

- (c) Put the airplane in the air mode (Put the Airplane in the Air Mode, TASK 32-09-00-860-801).
- (d) Remove the safety wire from the oxygen switch at the pilot overhead panel, P5.
- (e) At the pilots overhead panel, P5, set the oxygen switch to ON momentarily, and then release the switch back to the NORMAL position.

NOTE: Information signs can come on and chimes can sound.

- 1) Make sure that the PASS OXY ON light on the panel comes on.
- 2) Make sure that all the window, ceiling (cross bin, wash, and COS), cove, direct, work, direct entry lights are illuminated to White BRIGHT mode.

**LOM 461-463, 466-999; LOM 427-431, 433, 434 PRE SB 737-25-1689**

- 3) Make sure that the Forward threshold light is illuminated to White BRIGHT mode.

**LOM 427-434, 437-447, 450-999**

- (f) Below the Passenger Seating Area, touch the Meal/Beverage button.

- 1) Make sure that the lights in the passenger compartment are equivalent to the light type shown below the General Lighting Layout on the attendant control panel display.

NOTE: The lights can take at least 15 seconds to change.

- (g) Touch these buttons:

- White MEDIUM button below the Forward Entry Area, Entry section,
  - The button below the Forward Entry Area, Work section.
- 1) Make sure that the direct entry light becomes medium.

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- 2) Make sure that the threshold light goes off.

NOTE: Threshold light operation is connected to the forward direct entry light. The threshold light is only on when the forward direct entry light is set to white bright.

**LOM 427-434, 437-447, 450-999**

- 3) Make sure that the attendant work light goes off.

NOTE: In the forward entry area, the incandescent work light is aft of the dim entry LED light. The dim entry LED light is on when the airplane is supplied with external electrical power.

- (h) Touch these buttons:

- White MEDIUM button below the Aft Entry Area, Entry section,
- The button below the Aft Entry Area, Work section.

- 1) Make sure that the direct entry lights become medium.
- 2) Make sure that the attendant work lights go off.

- (i) Put the airplane in the ground mode (Return the Airplane to the Ground Mode, TASK 32-09-00-860-802).

- (j) Open and close this circuit breaker:

**CAPT Electrical System Panel, P18-3**

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

- (k) 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	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

- (l) Make sure that the PASS OXY ON light on the panel goes off.

- (m) Install the safety wire on to the oxygen switch at the pilot overhead panel, P5.

SUBTASK 33-20-00-710-046

- (5) Do a test of the reading lights.

- (a) At each passenger seat, set the switch for the reading light to the ON mode.
  - 1) Make sure that the reading light comes on.
- (b) Set the switch to the OFF mode.
  - 1) Make sure that the reading light goes off.
- (c) Set the switch to the usual mode.

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LOM 429-432, 437-439, 441, 446, 447, 455, 456, 458-999; AIRPLANES WITH NO-SMOKING SIGNS  
PERMANENTLY ILLUMINATED

SUBTASK 33-20-00-710-048

- (6) Do a test of the information signs:

NOTE: On some airplanes the no-smoking switch on the P5 panel will not operate the signs. The switch will have a INOP placard. On other airplanes the no-smoking switch will not operate the painted no-smoking signs. On some of these airplanes, the switch is connected to the service interphone system and will have a CHIME ONLY placard (Service Interphone System - Operational Test, TASK 23-41-00-710-801). On the remaining airplanes the electrically illuminated no-smoking signs have been revised to remain on at all times. The no-smoking switch on the P5 panel will not operate these signs. The switch will have an INOP placard.

- (a) Make sure the no-smoking sign comes on when electrical power is supplied.

NOTE: The switch for no-smoking does not operate.

- (b) Set the FASTEN BELT switch on the overhead panel, P5, to ON.

- 1) Make sure that these information signs are on:

a) FASTEN SEAT BELT

b) RETURN TO SEAT

- (c) Set the FASTEN BELT switch to OFF.

- 1) Make sure that the information signs are off.



**WARNING** MAKE SURE THAT THE DOWNLOCK PINS ARE INSTALLED ON ALL THE LANDING GEAR. WITHOUT THE DOWNLOCK PINS, THE LANDING GEAR CAN RETRACT. THIS CAN CAUSE INJURIES TO PERSONS, AND DAMAGE TO EQUIPMENT.

- (d) Make sure that the ground locks are installed on the nose and main landing gear.

- 1) If the downlock pins are not installed in the nose and main landing gear, do this task: Landing Gear Downlock Pins Installation, TASK 32-00-01-480-801.



**WARNING**

KEEP PERSONS AND EQUIPMENT AWAY FROM THE FLIGHT CONTROL SURFACES. THE AILERONS, ELEVATORS, RUDDER, FLAPS, SLATS, SPOILERS, STABILIZER AND NOSE GEAR CAN MOVE SUDDENLY WHEN YOU SUPPLY HYDRAULIC POWER. THIS CAN CAUSE INJURY TO PERSONS AND DAMAGE TO EQUIPMENT.

- (e) Supply hydraulic power to hydraulic systems A and B (Hydraulic System A or B Pressurization, TASK 29-11-00-860-801).

- (f) Move the FLAP CONTROL lever to the UP position.

- (g) Move the LANDING GEAR lever to the OFF position.

- (h) Set the FASTEN BELT switch to AUTO.

- 1) Make sure that all the information signs are off.

- (i) Move the FLAP CONTROL lever to POSITION 2.

- 1) Make sure that all the information signs are on.

- (j) Move the FLAP CONTROL lever to POSITION 0.

- 1) Make sure that all the information signs are off.

- (k) Move the LANDING GEAR lever to the DN position.

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LOM 429-432, 437-439, 441, 446, 447, 455, 456, 458-999; AIRPLANES WITH NO-SMOKING SIGNS PERMANENTLY ILLUMINATED (Continued)

- 1) Make sure that all the information signs are on.
- (l) Move the LANDING GEAR lever to the OFF position.
  - 1) Make sure that the information signs are off.
- (m) Set the FASTEN BELTS switch to OFF.
  - 1) Make sure that all the information signs stay off.
- (n) Move the LANDING GEAR lever to the DN position.
- (o) Set the switch for the seat belts to the usual mode.
- (p) Remove hydraulic power from hydraulic systems A and B (Hydraulic System A or B Power Removal, TASK 29-11-00-860-805).

**LOM 427, 428, 433, 434, 440, 442-445, 450-454, 457**

SUBTASK 33-20-00-710-049

- (7) Do a test of the information signs:

NOTE: The NO-SMOKING sign is not lighted and the no-smoking switch on the P5 panel will not operate these signs. The switch will have a INOP or a CHIME ONLY placard.

- (a) Set the FASTEN BELT switch on the overhead panel, P5, to ON.
  - 1) Make sure that these information signs are on:
    - a) FASTEN SEAT BELT
    - b) RETURN TO SEAT
- (b) Set the FASTEN BELT switch to OFF.
  - 1) Make sure that the information signs are off.



**WARNING** MAKE SURE THAT THE DOWNLOCK PINS ARE INSTALLED ON ALL THE LANDING GEAR. WITHOUT THE DOWNLOCK PINS, THE LANDING GEAR CAN RETRACT. THIS CAN CAUSE INJURIES TO PERSONS, AND DAMAGE TO EQUIPMENT.

- (c) Make sure that the ground locks are installed on the nose and main landing gear.
  - 1) If the downlock pins are not installed in the nose and main landing gear, do this task: Landing Gear Downlock Pins Installation, TASK 32-00-01-480-801.



**WARNING** KEEP PERSONS AND EQUIPMENT AWAY FROM THE FLIGHT CONTROL SURFACES. THE AILERONS, ELEVATORS, RUDDER, FLAPS, SLATS, SPOILERS, STABILIZER AND NOSE GEAR CAN MOVE SUDDENLY WHEN YOU SUPPLY HYDRAULIC POWER. THIS CAN CAUSE INJURY TO PERSONS AND DAMAGE TO EQUIPMENT.

- (d) Supply hydraulic power to hydraulic systems A and B (Hydraulic System A or B Pressurization, TASK 29-11-00-860-801).
- (e) Move the FLAP CONTROL lever to the UP position.
- (f) Move the LANDING GEAR lever to the OFF position.
- (g) Set the FASTEN BELT switch to AUTO.
  - 1) Make sure that all the information signs are off.

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**LOM 427, 428, 433, 434, 440, 442-445, 450-454, 457 (Continued)**

- (h) Move the FLAP CONTROL lever to POSITION 2.
  - 1) Make sure that all the information signs are on.
- (i) Move the FLAP CONTROL lever to POSITION 0.
  - 1) Make sure that all the information signs are off.
- (j) Move the LANDING GEAR lever to the DN position.
  - 1) Make sure that all the information signs are on.
- (k) Move the LANDING GEAR lever to the OFF position.
  - 1) Make sure that the information signs are off.
- (l) Set the FASTEN BELTS switch to OFF.
  - 1) Make sure that all the information signs stay off.
- (m) Move the LANDING GEAR lever to the DN position.
- (n) Set the switch for the seat belts to the usual mode.
- (o) Remove hydraulic power from hydraulic systems A and B (Hydraulic System A or B Power Removal, TASK 29-11-00-860-805).

**LOM 427-434, 437-447, 450-999**

SUBTASK 33-20-00-710-050

- (8) Do a test of the galley light in the forward galley.

NOTE: The galley light is located in the forward galley.

- (a) Set the switch for the galley light to the BRT mode.
  - 1) Make sure that the lights comes on brightly.
- (b) Set the switch to the DIM mode.
  - 1) Make sure that the light becomes dim.
- (c) Set the switch to the OFF mode.
  - 1) Make sure that the light goes off.

SUBTASK 33-20-00-710-051

- (9) Do a test of the lavatory mirror lights.

- (a) At each lavatory, open the lavatory door.
  - 1) Make sure that the auxiliary lights are on.

NOTE: The auxiliary lights come on when electrical power is supplied to the airplane.

- (b) Go in the lavatory and lock the door.
  - 1) Make sure that the fluorescent lamps come on brightly.
- (c) Unlock the door.
  - 1) Make sure that the fluorescent lamps go to off.
  - 2) Make sure that the auxiliary lights stay on.
- (d) Leave the lavatory and close the lavatory door.

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SUBTASK 33-20-00-710-052

- (10) Do a test of each lavatory-occupied sign:

NOTE: Use two people to do this part of the test.

- (a) Make sure that the lights behind the occupied symbol are off.
- (b) Go in the lavatory and lock the door.

NOTE: For airplane with multiple lavatories in the aft cabin, the lavatory-occupied sign comes on when all lavatories in the aft cabin are locked.

- 1) Make sure that the lights behind the occupied symbol come on.
- (c) Leave the lavatory and close the lavatory door.
- 1) Make sure that the lights behind the occupied symbol go off.

SUBTASK 33-20-00-710-053

- (11) Do a test of the passenger call lights.

- (a) At each passenger service unit (PSU), set the call switch to the ON mode.
  - 1) Make sure that the call light on the PSU comes on.
  - 2) Make sure that the blue call light in the exit signs near the forward and aft doors comes on.

NOTE: A call-select switch, if stalled, on the PSU lets you send the call signal to the forward or the aft exit sign.

- (b) Set the call switch to the OFF mode.
  - 1) Make sure that the call light on the PSU goes off.
  - 2) Make sure that the blue call light in the exit sign(s) near the forward and aft (if applicable) door(s) go(es) off.

SUBTASK 33-20-00-710-054

- (12) Do a test of the lavatory call light system.

- (a) Set the call switch in the lavatory to the ON mode.
  - 1) Make sure that the light in the call switch comes on.
  - 2) Make sure that the call light/reset switch outside the lavatory comes on.
  - 3) Make sure that the amber call light(s) in the exit sign(s) near the forward and aft (if applicable) door(s) come(s) on.
- (b) Push the call light/reset switch outside the lavatory to the OFF mode.
  - 1) Make sure that the call light/reset switch goes off.
  - 2) Make sure that the light in the call switch in the lavatory goes off.
  - 3) Make sure that the amber call light(s) in the exit sign(s) near the forward and aft (if applicable) door(s) go(es) off.

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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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F. Put the Airplane Back to Its Usual Condition

SUBTASK 33-20-00-860-014



**WARNING**

OBEY THE PROCEDURE FOR THE REMOVAL OF THE DOWNLOCK PINS. IF YOU MOVE THE CONTROL LEVER FOR THE LANDING GEAR TO THE UP POSITION, THE LANDING GEAR CAN RETRACT. THIS CAN CAUSE INJURIES TO PERSONNEL, AND DAMAGE TO EQUIPMENT.

- (1) If it is not necessary, remove the landing gear downlock pins (Landing Gear Downlock Pins Removal, TASK 32-00-01-080-801).

SUBTASK 33-20-00-860-016

- (2) If it is not necessary, set the CAB/UTIL switch at the P5-13 panel to the OFF position.

———— END OF TASK ————

**TASK 33-20-00-470-801-001**

**4. Passenger Compartment Lights - BSI Generation 3 OPS Loadable Software Airplane Part (LSAP) Loading**

**A. General**

- (1) Do the Loadable Software Airplane Part (LSAP) verification for light section.
- (2) This procedure includes the steps to install the Operational Program Software (OPS) LSAP into BSI generation 3 light columns:
  - (a) Direct
  - (b) Cove
  - (c) Wash
  - (d) Crossbin
  - (e) COS.
- (3) LED light indication:
  - (a) Normal function - LED's are displaying correct scene data from Audio Control Panel (ACP).
  - (b) Bootloader Mode:
    - 1) White (WWW) segments - Partial cool white segments with remaining segment cool and warm light.
    - 2) RGBW (color) segments - Partial blue segment with remaining segment white light.
  - (c) Loss of Communication:
    - 1) White (WWW) segments - White light at 30% intensity (amber and white lights).
    - 2) RGBW (color) segments - White light at 30% intensity.

**B. References**

Reference	Title
23-42-03-470-801	Attendant Control Panel (ACP) Software Loading (P/B 201)
23-42-03-700-801	Attendant Control Panel (ACP) Configuration Check (P/B 201)
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)

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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.

<b>Reference</b>	<b>Description</b>
COM-15086	Cable - USB to RS-485 Harness Part #: TH-737-CABLE-02 Supplier: 59579
STD-13611	Laptop - Generic (Minimum requirements: Windows 7 SP1, 500MHz processor, 256MB RAM, 10/100 BaseT Ethernet port, CD-ROM/DVD media drive, 60GB hard drive, English language)

**D. Location Zones**

<b>Zone</b>	<b>Area</b>
117	Electrical and Electronics Compartment - Left
118	Electrical and Electronics Compartment - Right
200	Upper Half of Fuselage

**E. Access Panels**

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

**F. Prepare for the LSAP Loading**

SUBTASK 33-20-00-860-017-001

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

SUBTASK 33-20-00-860-027-001

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

**F/O Electrical System Panel, P6-1**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
D	12	C01936	ATTENDANT PANELS

SUBTASK 33-20-00-010-001-001

- (3) Open this access panel:

**Number      Name/Location**

117A      Electronic Equipment Access Door

SUBTASK 33-20-00-860-018-001



**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.

- (4) Close these circuit breakers:

**Power Distribution Panel Number 1, P91**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	14	C00813	GND SERV 1
C	3	C00140	WORK AND THSHD LTS
C	4	C00184	GND SERV CLG NIGHT CONT
E	5	C03041	GND SERV 1 SECT 1
E	7	C01937	CEILING LIGHT AFT-L
E	8	C01938	CEILING LIGHT AFT-R
E	9	C00590	CEILING LT-R
E	10	C00591	CEILING LT-L
E	12	C00041	28V AC GND SERV 1

**Power Distribution Panel Number 2, P92**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	9	C02813	GND SERV 2
E	5	C01939	COVE LIGHT
E	11	C00594	WINDOW LIGHT RIGHT
E	12	C00776	WINDOW LIGHT LEFT

SUBTASK 33-20-00-860-019-001

- (5) Make sure that the CAB/UTIL switch, at the P5-13 panel, is set to the ON position.

SUBTASK 33-20-00-700-001-001

- (6) Press the maintenance tab, on the forward attendant control panel.

SUBTASK 33-20-00-860-028-001

- (7) Enter password if required.

NOTE: Default password is "1234" unless changed by the operator.

SUBTASK 33-20-00-860-029-001

- (8) Press CONFIG CHECK.

SUBTASK 33-20-00-860-030-001

- (9) Make sure that the OPS LSAP part number is displayed in the firmware field for these lighting types:

- Direct
- Cove
- Wash
- Crossbin

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- COS

NOTE: It is not necessary to examine the Sidewall and Overwing Exit (OWE) lights because they do not have loadable OPS at this time. Sidewall and Exit lights are on lighting columns 1 and 4.

- On column 1 start with the first light and examine the OPS part number for all light types, until the first sidewall light is shown.
- On column 2 and 3, examine the OPS part number for all lights.
- On column 4 start with the last light address and verify the OPS part number for all light types backward until the first sidewall light is displayed.

NOTE: During software verification, if one part number is incorrect in the lighting column, the rest of the lights in that column do not need to be examined.

SUBTASK 33-20-00-860-031-001

- Record the necessary columns.

## G. LSAP Loading

SUBTASK 33-20-00-470-001-001

- Do these steps to load the LSAP:

- Copy the 33 Cabin Lighting System (CLS) OPS media set part onto the laptop, STD-13611.

NOTE: B/E Aerospace will provide this load tool application.

- Connect the USB to RS-485 harness cable, COM-15086, to the laptop.



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.

- Make sure that these circuit breakers are closed:

### Power Distribution Panel Number 1, P91

Row	Col	Number	Name
A	14	C00813	GND SERV 1
C	4	C00184	GND SERV CLG NIGHT CONT
E	5	C03041	GND SERV 1 SECT 1
E	7	C01937	CEILING LIGHT AFT-L
E	8	C01938	CEILING LIGHT AFT-R
E	9	C00590	CEILING LT-R

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(Continued)

**Power Distribution Panel Number 1, P91**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
E	10	C00591	CEILING LT-L
E	12	C00041	28V AC GND SERV 1

**Power Distribution Panel Number 2, P92**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	9	C02813	GND SERV 2
E	5	C01939	COVE LIGHT
E	11	C00594	WINDOW LIGHT RIGHT
E	12	C00776	WINDOW LIGHT LEFT

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

**F/O Electrical System Panel, P6-1**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	12	C01936	ATTENDANT PANELS

- (e) Set the CAB/UTIL, on the P5-13 panel, to the ON position.  
(f) Select the lighting menu on the ACP.  
(g) Select a lighting scene on the ACP, where the crossbin is OFF or DIM.  
(h) Open this circuit breaker and install safety tag:

**F/O Electrical System Panel, P6-1**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	12	C01936	ATTENDANT PANELS

- (i) To get access to the wire bundle for a column, use one of these:  
1) For column 1, open access panel to get to the wire bundle (Figure 501).  
2) For column 2, open access panel to get to the wire bundle (Figure 502).  
    NOTE: Use bin light that is not blocked by a center overhead storage.  
3) For column 3, open access panel to get to the wire bundle (Figure 503).  
    NOTE: Use bin light that is not blocked by a center overhead storage.  
4) For column 4, open access panel to get to the wire bundle (Figure 504).  
(j) Disconnect J2 from P2.  
(k) Connect the USB to RS-485 harness cable, COM-15086, between J2 and P2 on the column to load.  
(l) Install the LSAP as follows:  
1) Open the load tool application.  
2) Go to File >Select LSAP.  
3) Select the LSAP HDR file contained in the media set part number DISK001 folder.  
    NOTE: An example of the file name for the LSAP part number: 3375-BEA-003-00 will be in the form of BEA00300.HDR.  
4) Use the drop down menu to select a COM port:

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LOM ALL

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**LOM 427-434, 437-447, 450-999 (Continued)**

- a) Select the first COM port on the list.
  - b) Select File>Debug> and press COM test.
  - c) If the lights blink, or go into lamp test (all LEDs illuminated) the correct COM port is selected.
  - d) If the lights do not blink or go into lamp test select the next COM port and repeat steps 2 and 3.
- 5) Select Start Data Load.  
NOTE: When data load is finished, the lights should go into the loss of communication mode.
  - 6) Make sure that the lights that were loaded are not in bootloader mode.
  - 7) All other lights in the column will continue to display the same as before the load or go into loss of communication mode.
- (m) Disconnect the USB to RS-485 harness cable, COM-15086, from J2 and P2.
  - (n) Connect J2 to P2.
  - (o) To close access to the wire bundle for a column, use one of these:
    - 1) For column 1, close access panel for the wire bundle (Figure 501).
    - 2) For column 2, close access panel for the wire bundle (Figure 502).  
NOTE: Use bin light that is not blocked by a center overhead storage.
    - 3) For column 3, close access panel for the wire bundle (Figure 503).  
NOTE: Use bin light that is not blocked by a center overhead storage.
    - 4) For column 4, close access panel for the wire bundle (Figure 504).

SUBTASK 33-20-00-470-002-001

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

**F/O Electrical System Panel, P6-1**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	12	C01936	ATTENDANT PANELS

SUBTASK 33-20-00-470-003-001

- (3) Do this task: Attendant Control Panel (ACP) Software Loading, TASK 23-42-03-470-801.

NOTE: Phase 2 data load is recommended.

SUBTASK 33-20-00-700-002-001

- (4) Do this task: Attendant Control Panel (ACP) Configuration Check, TASK 23-42-03-700-801.
  - (a) Make sure that the correct LSAP part number is displayed in the firmware field for these light types:
    - Direct
    - Cove
    - Wash
    - Crossbin
    - COS.

EFFECTIVITY  
LOM ALL



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**LOM 427-434, 437-447, 450-999 (Continued)**

**H. Put the Airplane Back to Its Usual Condition**

SUBTASK 33-20-00-410-001-001

- (1) Close this access panel:

**Number      Name/Location**

117A      Electronic Equipment Access Door

SUBTASK 33-20-00-860-020-001

- (2) If it is not necessary, set the CAB/UTIL switch, at the P5-13 panel, to the OFF position.

SUBTASK 33-20-00-860-021-001

- (3) If it is not necessary, remove electrical power. To remove it, do this task: Remove Electrical Power, TASK 24-22-00-860-812.

———— END OF TASK ————

EFFECTIVITY  
LOM ALL

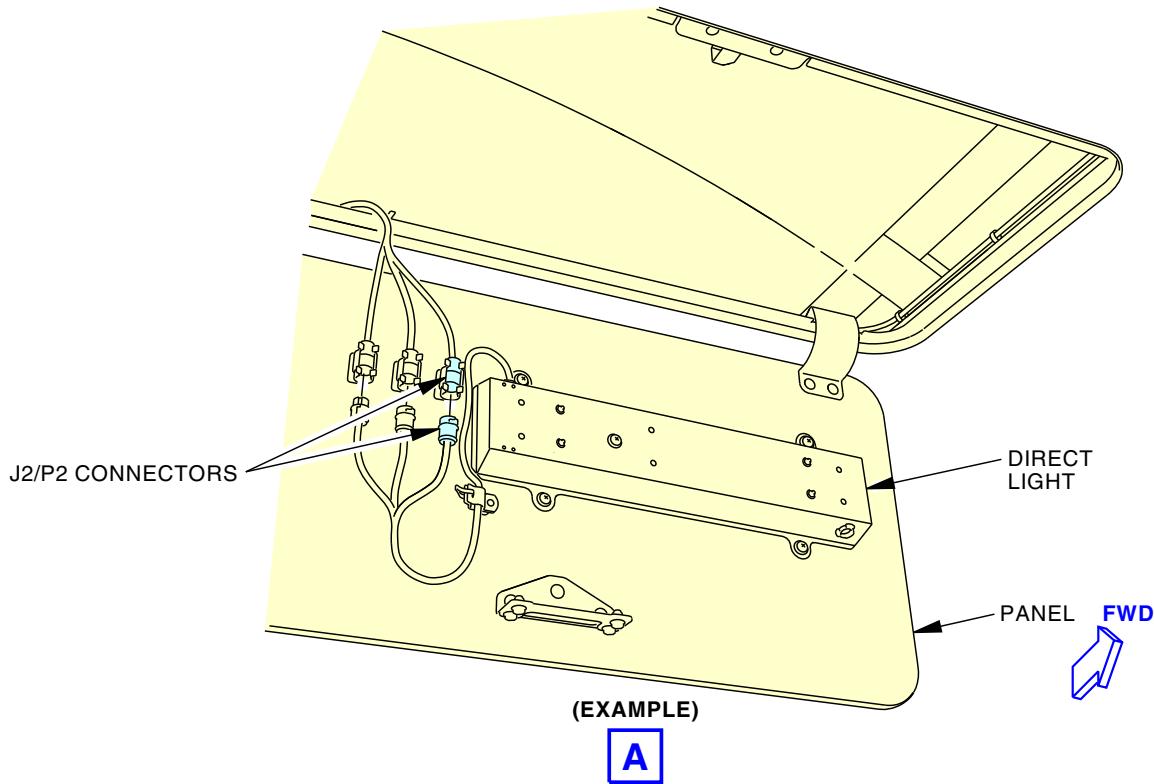
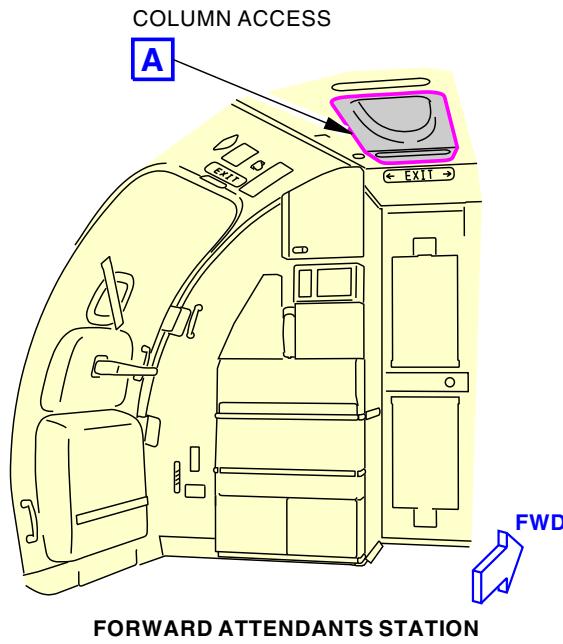
ECCN 9E991 BOEING PROPRIETARY - See title page for details

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2556566 S0000609858\_V1

BSI Lighting Column 1 Access  
Figure 501/33-20-00-990-801-001

EFFECTIVITY  
LOM 427-434, 437-447, 450-999

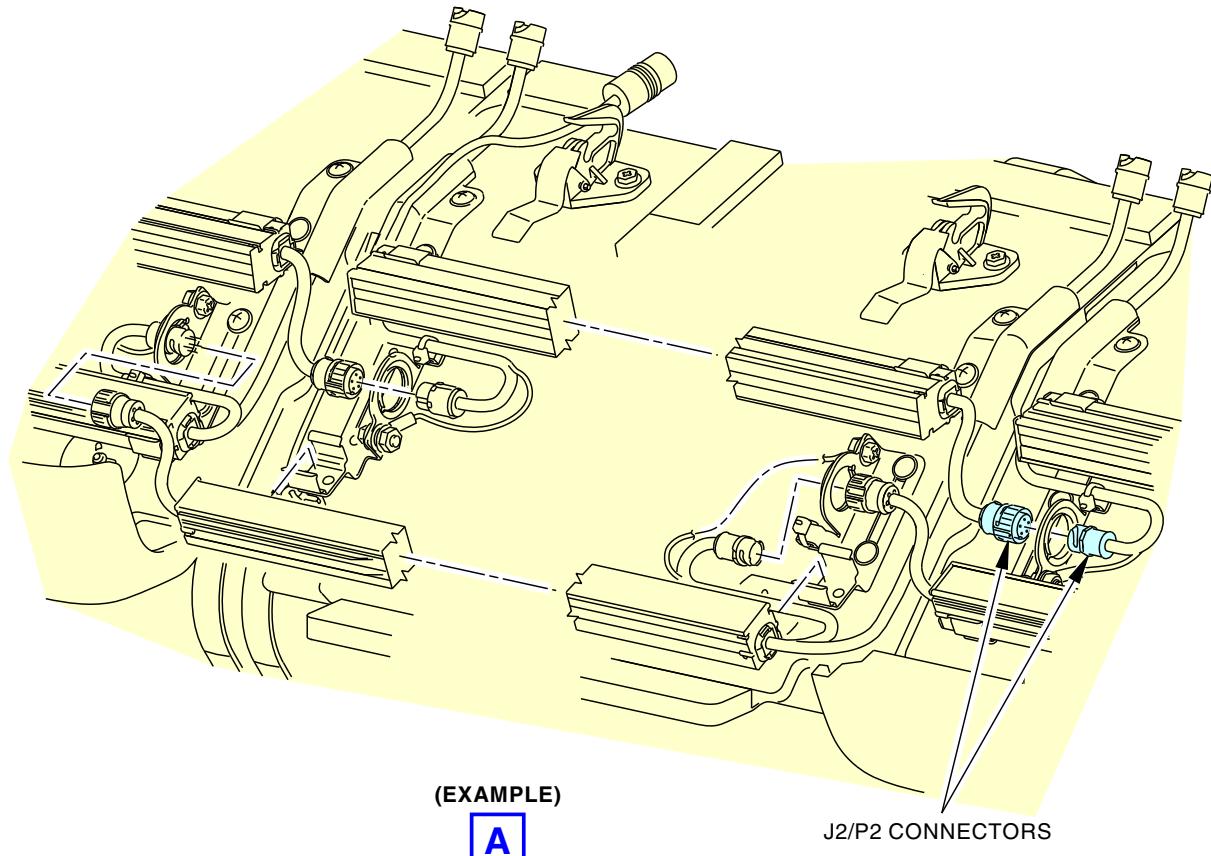
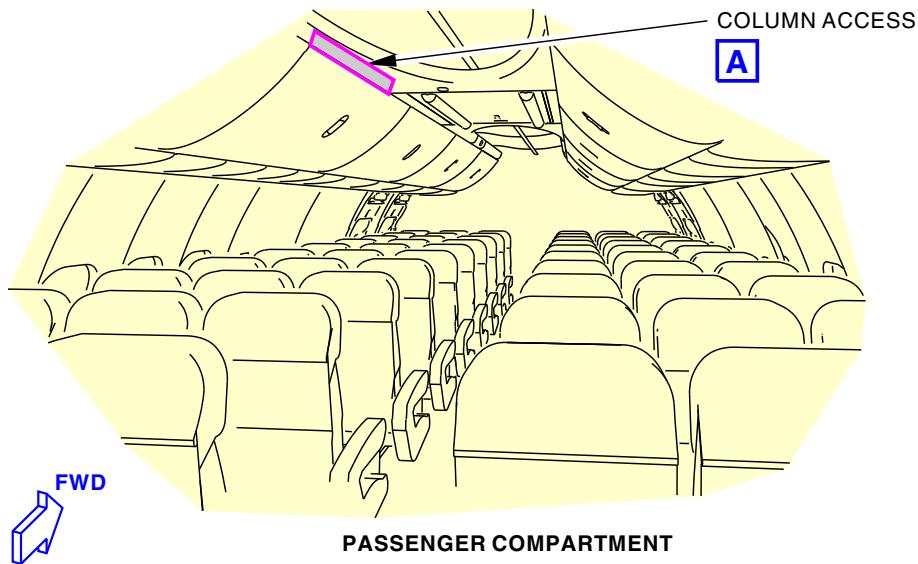
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2556598 S0000609859\_V1

**BSI Lighting Column 2 Access**  
**Figure 502/33-20-00-990-802-001**

EFFECTIVITY  
LOM 427-434, 437-447, 450-999

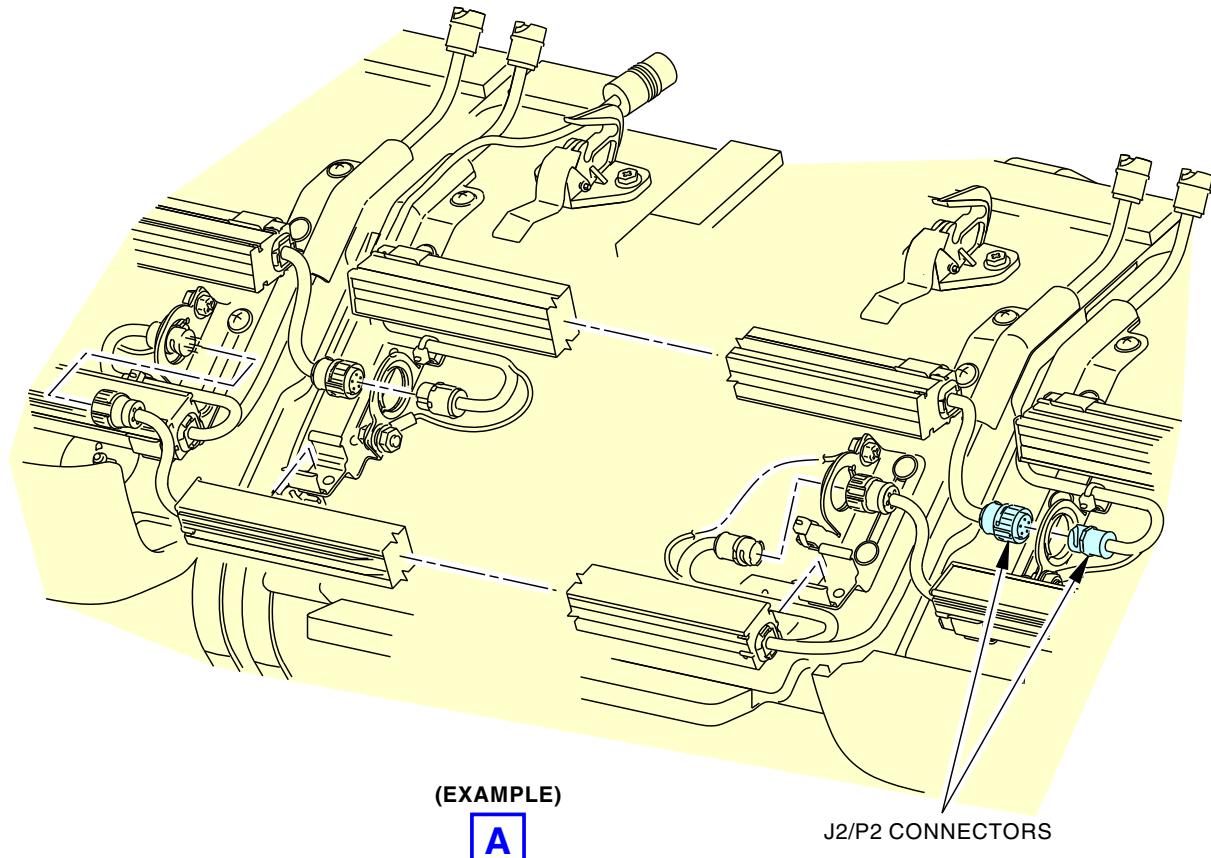
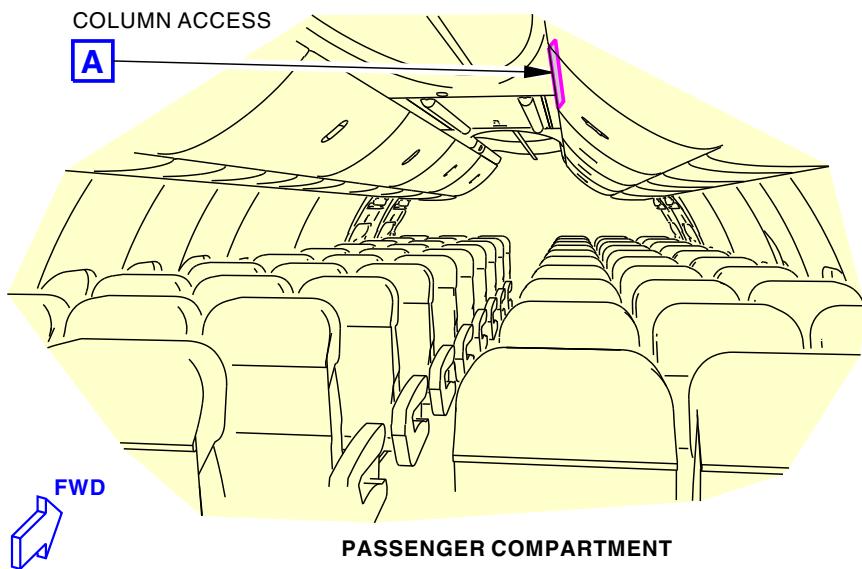
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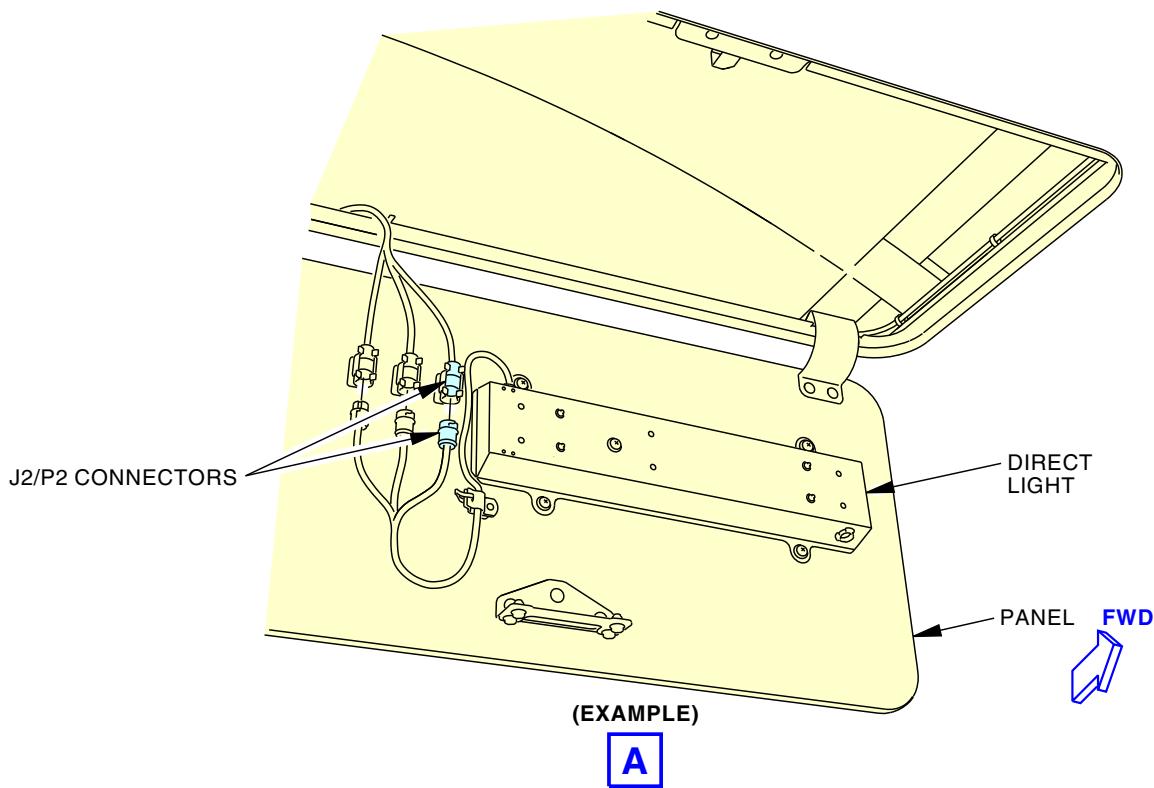
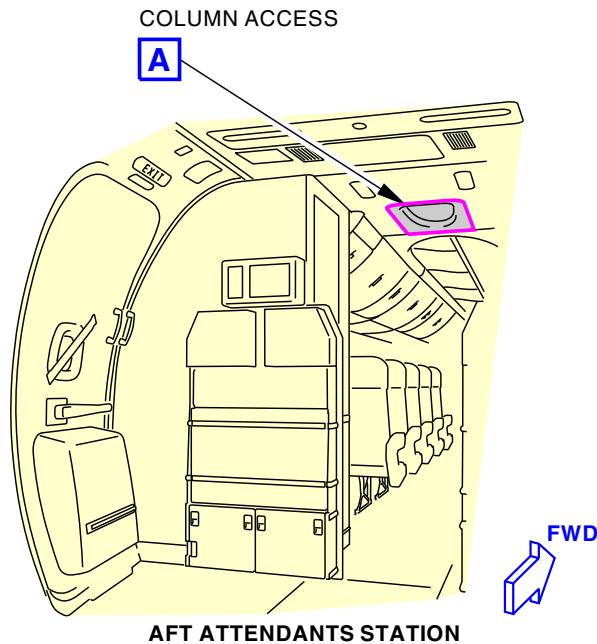
**BSI Lighting Column 3 Access**  
Figure 503/33-20-00-990-803-001

EFFECTIVITY  
LOM 427-434, 437-447, 450-999

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2556631 S0000609861\_V1

**BSI Lighting Column 4 Access**  
**Figure 504/33-20-00-990-804-001**

 EFFECTIVITY  
 LOM 427-434, 437-447, 450-999

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WINDOW LIGHTS - MAINTENANCE PRACTICES

**1. General**

A. This procedure has these tasks:

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

- (1) Window Lighting Deactivation
- (2) Window Lighting Activation

**LOM 427-434, 437-447, 450-999**

- (3) BSI Window LED Lighting Deactivation
- (4) BSI Window LED Lighting Activation

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

- (5) Window Light - Lamp Replacement
- (6) Window Light - Light Assembly Replacement
- (7) Window Light - Fuse Replacement
- (8) Window Light - Overwing Exit Light Lamp Replacement
- (9) Window Light - Overwing Exit Light Assembly Replacement

**LOM 427-434, 437-447, 450-999**

- (10) Window Light - LED Light Assembly Replacement
- (11) Window Light - Overwing Exit Light Assembly Replacement

**TASK 33-21-00-040-801**

**2. BSI Window LED Lighting - Deactivation**

(Figure 201)

**A. General**

- (1) This procedure removes the electrical power to the window lights.

**B. Location Zones**

Zone	Area
117	Electrical and Electronics Compartment - Left
118	Electrical and Electronics Compartment - Right
200	Upper Half of Fuselage
211	Flight Compartment - Left

**C. Access Panels**

Number	Name/Location
117A	Electronic Equipment Access Door

**D. BSI Window LED Lighting Deactivation**

SUBTASK 33-21-00-860-024

- (1) Ensure the Utility switch (ELEC METERS, BATTERY AND GALLEY PWR MODULE) on P5 -13 is in the ON position.

EFFECTIVITY
LOM ALL

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LOM 427-434, 437-447, 450-999 (Continued)

SUBTASK 33-21-00-010-001

- (2) To get access to the P91 and P92 panels, open this access panel:

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

SUBTASK 33-21-00-860-025



**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 this circuit breaker is closed:

**Power Distribution Panel Number 1, P91**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	4	C00184	GND SERV CLG NIGHT CONT

SUBTASK 33-21-00-860-026



**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 2, P92**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
E	11	C00594	WINDOW LIGHT RIGHT
E	12	C00776	WINDOW LIGHT LEFT

**E. BSI Window LED Lighting - Tryout**

NOTE: This tryout is to make sure that the BSI Window LED Lighting is in a zero energy state.

EFFECTIVITY  
LOM ALL

**33-21-00**



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LOM 427-434, 437-447, 450-999 (Continued)

SUBTASK 33-21-00-860-027



**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 this circuit breaker is closed:

**Power Distribution Panel Number 1, P91**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	4	C00184	GND SERV CLG NIGHT CONT

SUBTASK 33-21-00-410-006

- (2) Close this access panel:

**Number      Name/Location**

117A      Electronic Equipment Access Door

SUBTASK 33-21-00-211-001

- (3) Set the applicable switch for the window light to ON.

NOTE: The window lights are controlled by the Attendant Control Panel (ACP).

- (a) Make sure that the window lights do not come on.

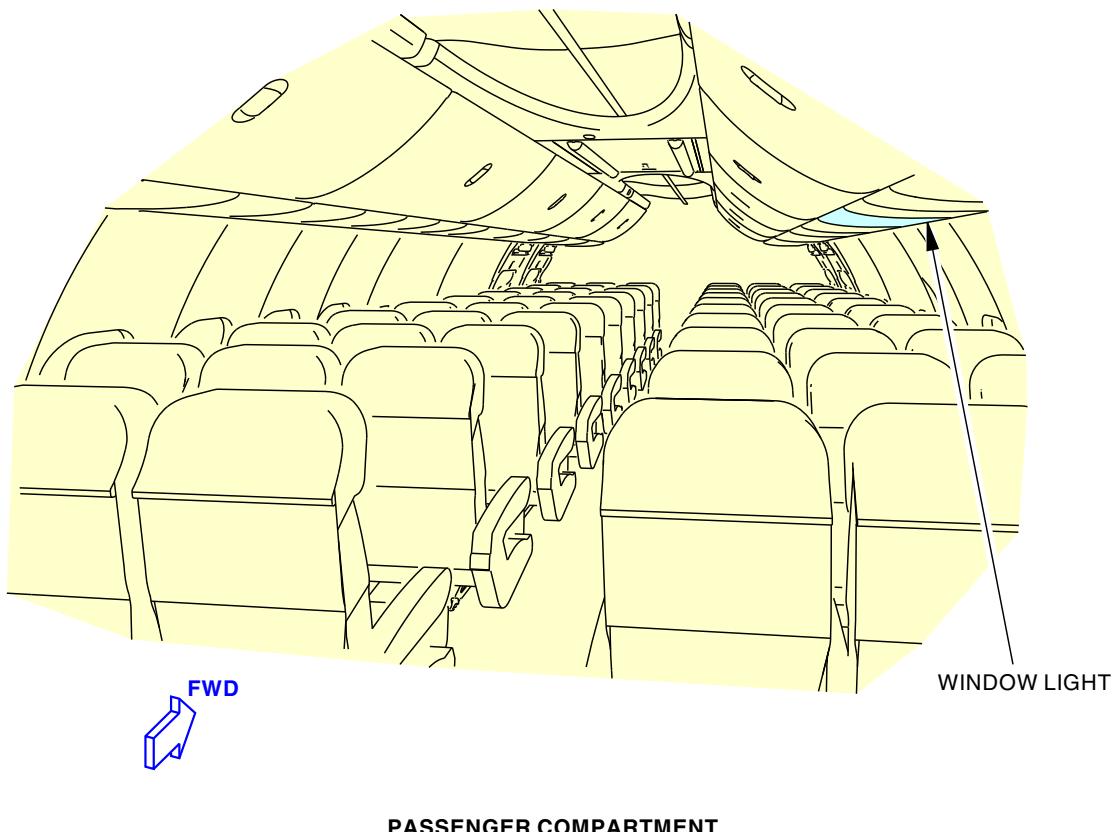
———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-21-00**



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2361968 S0000540146\_V2

**Window Lights**  
**Figure 201/33-21-00-990-805**

EFFECTIVITY  
LOM 427-434, 437-447, 450-999

**33-21-00**

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LOM 427-434, 437-447, 450-999 (Continued)

**TASK 33-21-00-440-801**

**3. BSI Window LED Lighting - Activation**

(Figure 201)

**A. General**

- (1) This procedure adds electrical power to the window lights.

**B. Location Zones**

Zone	Area
117	Electrical and Electronics Compartment - Left
118	Electrical and Electronics Compartment - Right
200	Upper Half of Fuselage

**C. Access Panels**

Number	Name/Location
117A	Electronic Equipment Access Door

**D. BSI Window LED Lighting Activation**

SUBTASK 33-21-00-010-006

- (1) To get access to the P91 and P92 panels, open this access panel:

**Number      Name/Location**

117A      Electronic Equipment Access Door

SUBTASK 33-21-00-860-028



**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	4	C00184	GND SERV CLG NIGHT CONT

EFFECTIVITY  
LOM ALL

**33-21-00**

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LOM 427-434, 437-447, 450-999 (Continued)

SUBTASK 33-21-00-860-029



**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 tags and close these circuit breakers:

**Power Distribution Panel Number 2, P92**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
E	11	C00594	WINDOW LIGHT RIGHT
E	12	C00776	WINDOW LIGHT LEFT

SUBTASK 33-21-00-410-001

- (4) Close this access panel:

Number      Name/Location

117A            Electronic Equipment Access Door

———— END OF TASK ————

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426

**TASK 33-21-00-040-802**

**4. Window Lighting - Deactivation**

(Figure 202)

**A. General**

- (1) This procedure removes electrical power to the window lights.

**B. Location Zones**

<u>Zone</u>	<u>Area</u>
118	Electrical and Electronics Compartment - Right
200	Upper Half of Fuselage

**C. Access Panels**

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

EFFECTIVITY  
LOM ALL

**33-21-00**



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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)**

**D. Window Lighting Deactivation**

SUBTASK 33-21-00-010-002

- (1) To get access to the P92 panel, open this access panel:

**Number      Name/Location**

117A      Electronic Equipment Access Door

SUBTASK 33-21-00-860-030



**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 2, P92**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
C	1	C01200	GND SERV WDO BRT CONT

SUBTASK 33-21-00-860-031



**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 these circuit breakers and install safety tags:

**Power Distribution Panel Number 2, P92**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
E	11	C00594	WINDOW LIGHT RIGHT
E	12	C00776	WINDOW LIGHT LEFT

EFFECTIVITY  
LOM ALL

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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)**

**E. Window Lighting - Tryout**

NOTE: This tryout is to make sure that the Window Lighting is in a zero energy state.

SUBTASK 33-21-00-860-032



**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 this circuit breaker is closed:

**Power Distribution Panel Number 2, P92**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	1	C01200	GND SERV WDO BRT CONT

SUBTASK 33-21-00-410-007

- (2) Close this access panel:

Number    Name/Location

117A            Electronic Equipment Access Door

SUBTASK 33-21-00-211-003

- (3) Do the following steps to ensure the window lights on both sides are off.

- (a) Turn the window light switch, on the FWD Attendant panel, to "DIM" and confirm all the window lights are off.

NOTE: For dual zone also turn the window light switch, on the AFT Attendant panel, to "DIM" and confirm all the aft window lights are off.

- (b) Turn the window light switch on the FWD Attendant panel, to "BRIGHT" and confirm all the window lights are off.

NOTE: For dual zone also turn the window light switch, on the AFT Attendant panel, to "BRIGHT" and confirm all the aft window lights are off.

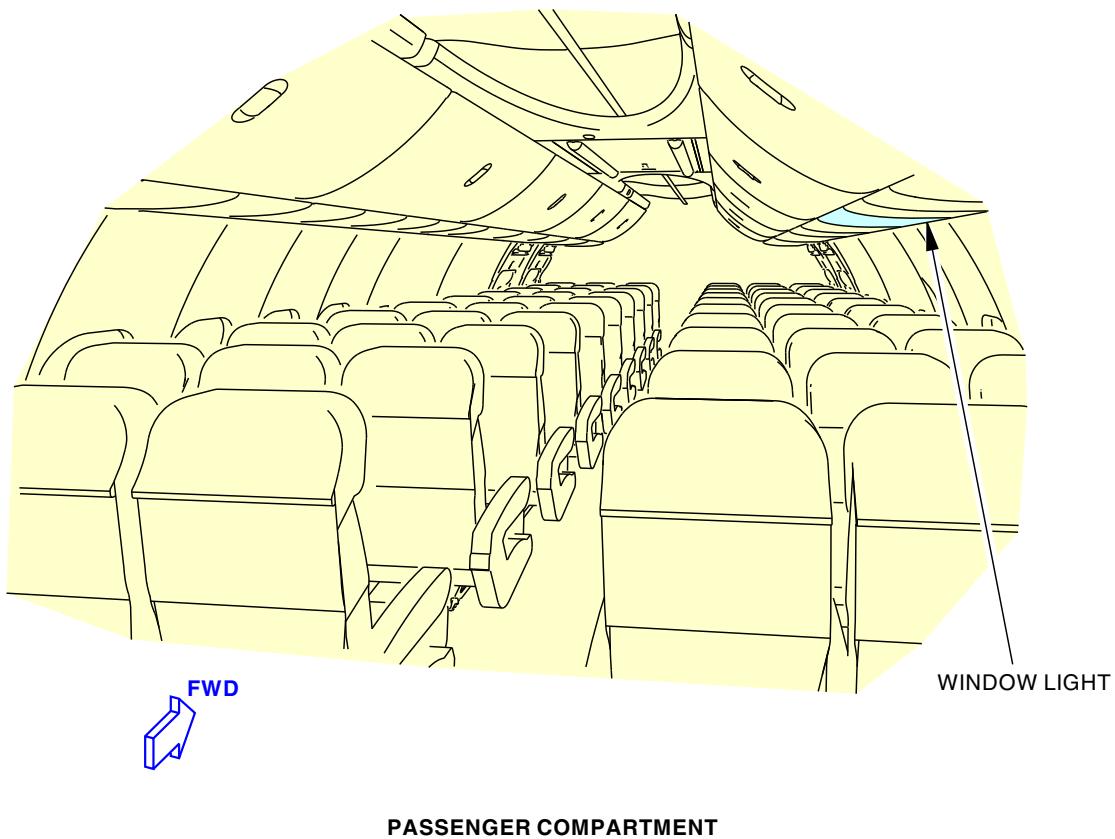
———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-21-00**



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PASSENGER COMPARTMENT

2361968 S0000540146\_V2

**Window Lights**  
**Figure 202/33-21-00-990-806**

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

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LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)

**TASK 33-21-00-440-802**

**5. Window Lighting - Activation**

(Figure 202)

**A. General**

- (1) This procedure adds electrical power to the window lights.

**B. Location Zones**

Zone	Area
118	Electrical and Electronics Compartment - Right
200	Upper Half of Fuselage

**C. Access Panels**

Number	Name/Location
117A	Electronic Equipment Access Door

**D. Window Lighting Activation**

SUBTASK 33-21-00-010-007

- (1) To get access to the P92 panel, open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 33-21-00-860-033



**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 2, P92**

Row	Col	Number	Name
C	1	C01200	GND SERV WDO BRT CONT

EFFECTIVITY  
LOM ALL

**33-21-00**

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LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)

SUBTASK 33-21-00-860-034



**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 tags and close these circuit breakers:

**Power Distribution Panel Number 2, P92**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
E	11	C00594	WINDOW LIGHT RIGHT
E	12	C00776	WINDOW LIGHT LEFT

SUBTASK 33-21-00-410-002

- (4) Close this access panel:

Number      Name/Location

117A            Electronic Equipment Access Door

———— END OF TASK ————

**TASK 33-21-00-960-801**

**6. Window Light - Lamp Replacement**

(Figure 203)

**A. References**

<u>Reference</u>	<u>Title</u>
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
WDM 33-21-11	Wiring Diagram Manual
WDM 33-21-12	Wiring Diagram Manual

**B. Tools/Equipment**

<u>Reference</u>	<u>Description</u>
STD-858	Tag - DO NOT OPERATE

**C. Location Zones**

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

**D. Window Light Lamp Replacement**

SUBTASK 33-21-00-860-001

- (1) At the applicable attendant panel, set the switch for the window lights to the off mode and

———— EFFECTIVITY ————  
**LOM ALL**

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attach a DO NOT OPERATE tag, STD-858.

SUBTASK 33-21-00-960-001



**DO NOT TOUCH THE SOCKETS OR THE METAL ENDS OF THE LAMP.  
SHOCK CAN OCCUR WHEN YOU SUPPLY ELECTRICAL POWER TO THE  
LIGHT.**

(2) Do these steps to replace the lamp (WDM 33-21-11 ) (WDM 33-21-12):

- (a) Remove the lens [3].
  - 1) Remove the screw [4] and retainer plate [5] from each side of the lens.
  - 2) Use a slim, flat tool along the inboard edge of the lens [3] to lift it away from the light housing.
- (b) Replace the lamp [2].
- (c) Install the lens [3].
  - 1) Align the holes on each side of the lens [3] with the nutplates.
  - 2) Push the lens [3] into its position.
  - 3) Put one end of the lens in first then push the opposite end and along the edge of the lens in with your thumb.  
**NOTE:** A lot of force is necessary to install the lens.
  - 4) Install the screw [4] and retainer plate [5] on each side of the lens.
- (d) Remove the DO NOT OPERATE tag, STD-858 from the applicable window light.

SUBTASK 33-21-00-860-002

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

SUBTASK 33-21-00-710-001

- (4) Do a test of the new lamp:
- (a) Set the applicable switch for the window lights to the bright mode.
    - 1) Make sure that the light comes on brightly.
  - (b) Set the switch to the dim mode.
    - 1) Make sure that the light becomes dim.
  - (c) Set the switch to the off mode.
    - 1) Make sure that the light goes off.

SUBTASK 33-21-00-860-003

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

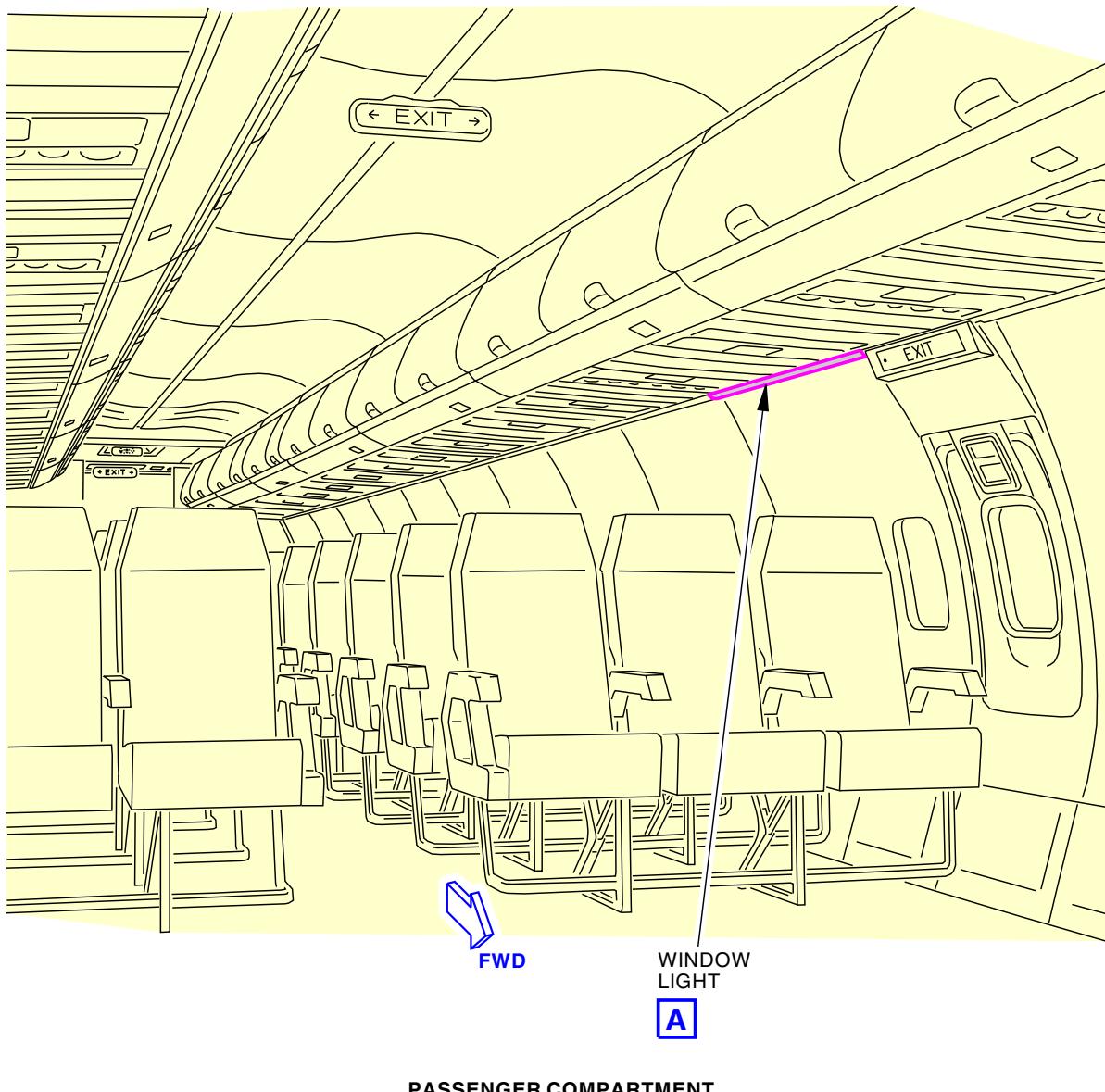
———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-21-00**



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**Window Light - Lamp Replacement**  
Figure 203/33-21-00-990-801 (Sheet 1 of 2)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

**33-21-00**

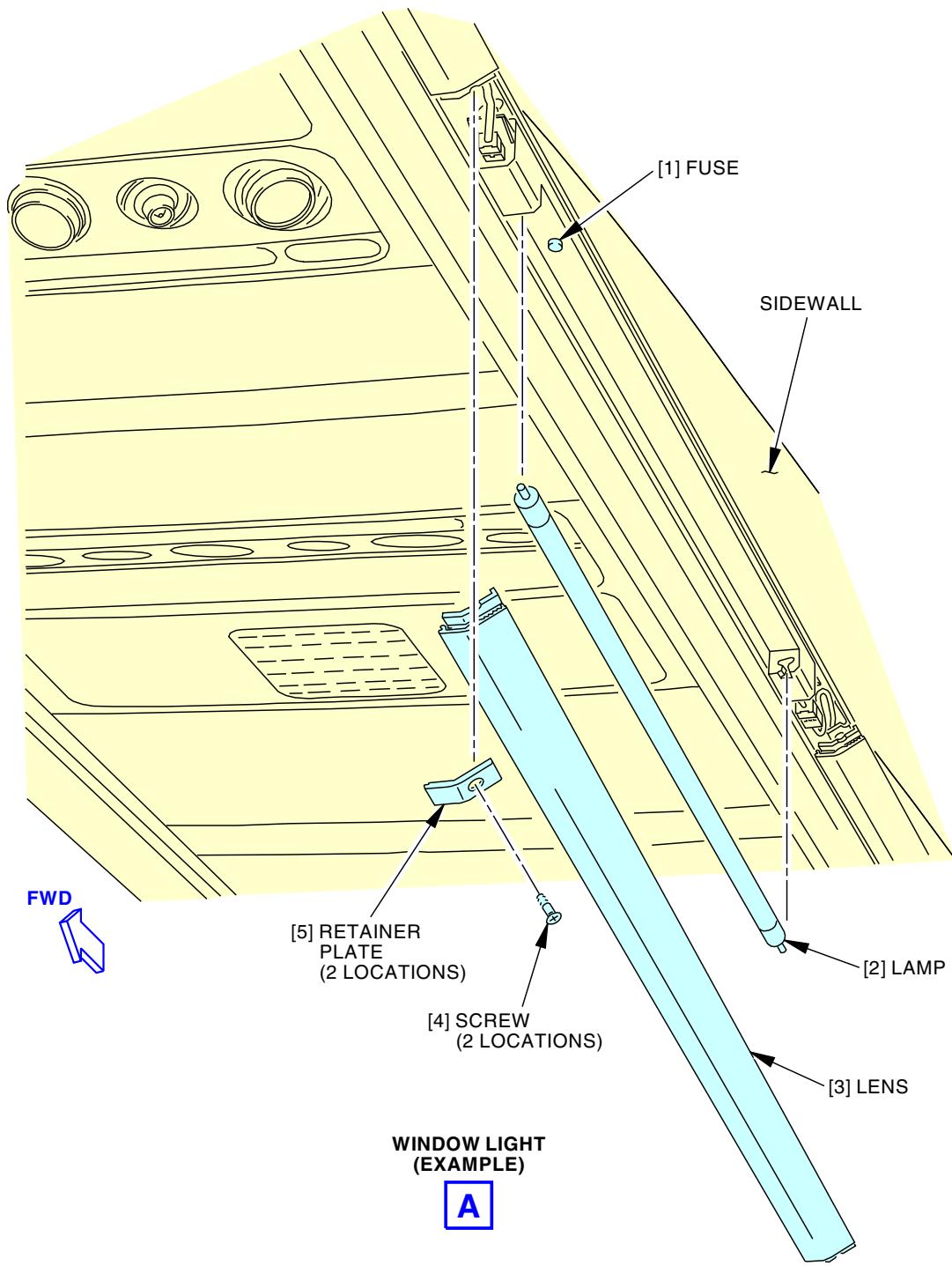
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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AIRCRAFT MAINTENANCE MANUAL



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Window Light - Lamp Replacement  
Figure 203/33-21-00-990-801 (Sheet 2 of 2)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

**33-21-00**

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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)**

**TASK 33-21-00-960-802**

**7. Window Light - Light Assembly Replacement**

(Figure 204)

**A. References**

<b>Reference</b>	<b>Title</b>
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
WDM 33-21-11	Wiring Diagram Manual
WDM 33-21-12	Wiring Diagram Manual

**B. Expendables/Parts**

<b>AMM Item</b>	<b>Description</b>	<b>AIPC Reference</b>	<b>AIPC Effectivity</b>
21	Light assembly	33-21-51-30-170	LOM 402, 406, 407, 411, 412, 415, 420, 422-426
		33-21-51-30-175	LOM 402, 406, 407, 411, 412, 415, 420, 422-426
		33-21-51-30-180	LOM 402, 406, 407, 411, 412, 415, 420, 422-426
		33-21-51-30F-175	LOM 404
		33-21-51-30F-180	LOM 404
		33-21-51-30F-185	LOM 404

**C. Location Zones**

<b>Zone</b>	<b>Area</b>
118	Electrical and Electronics Compartment - Right
200	Upper Half of Fuselage
211	Flight Compartment - Left

**D. Access Panels**

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

**E. Prepare for the Replacement**

SUBTASK 33-21-00-860-035

- (1) Do this task: Remove Electrical Power, TASK 24-22-00-860-812.
  - (a) Make sure that the CAB/UTIL switch, on the P5-13 panel, is set to the OFF position.

**F. Window Light Assembly Replacement**

SUBTASK 33-21-00-010-003

- (1) To get access to the P92 panel, open this access panel:

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



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LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)

SUBTASK 33-21-00-860-004



**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.

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

(WDM 33-21-11, WDM 33-21-12)

**Power Distribution Panel Number 2, P92**

**Row**   **Col**   **Number**   **Name**

E	11	C00594	WINDOW LIGHT RIGHT
E	12	C00776	WINDOW LIGHT LEFT

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426; AIRPLANES WITH SIDEWALL LIGHT NOT AT AN EMERGENCY EXIT DOORWAY**

SUBTASK 33-21-00-040-001



**CAUTION**

DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

- (3) Before you touch the light assembly [21], do the procedure for devices that are sensitive to electrostatic discharge (TASK 20-40-12-000-802).

SUBTASK 33-21-00-020-003

- (4) Do these steps to remove the light assembly [21]:

- (a) Remove the lens [3].

- 1) Remove the screw [4] and retainer plate [5] from each end of the lens.
- 2) Use a slim, flat tool along the inboard edge of the lens [3] to lift it away from the light housing.

- (b) Remove the lamp [2].

- (c) Disconnect the electrical connector [22] from each end of the light assembly [21].

NOTE: One electrical connector is behind the adjacent lens.

- 1) To disconnect the electrical connector behind the adjacent lens, do these steps:

- a) Remove the screw and retainer plate from one end of the lens.

NOTE: It is not necessary to fully remove the lens. Remove only the end for access to the electrical connector.

EFFECTIVITY  
LOM ALL

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LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426; AIRPLANES WITH SIDEWALL LIGHT NOT AT AN EMERGENCY EXIT DOORWAY (Continued)

- b) Use a slim, flat tool along the inboard edge of the lens to lift the end away from the light housing.
- c) Disconnect the electrical connector.
- (d) Remove the screws [23], washers [24], and washers [25] that hold the light assembly [21] in its position.
- (e) Remove the light assembly [21].

SUBTASK 33-21-00-040-002



**CAUTION**

DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

- (5) Before you touch the light assembly [21], do the procedure for devices that are sensitive to electrostatic discharge (TASK 20-40-12-400-802).

SUBTASK 33-21-00-420-003

- (6) Do these steps to install the light assembly [21]:

- (a) Put the light assembly [21] in position.
- (b) Install the screws [23], washers [24], and washers [25] that hold the light assembly in its position.
- (c) Connect one of the electrical connectors [22] to the new light assembly.

NOTE: On some airplanes, a case ground wire is installed on pin 5 of the electrical connector

- (d) Install the lamp [2].
- (e) Install the lens [3].
  - 1) Align the holes on each side of the lens [3] with the nutplates.
  - 2) Push the lens [3] into its position.
  - 3) Put one end of the lens in first then push the opposite end and along the edge of the lens in with your thumb.

NOTE: A lot of force is necessary to install the lens.

- 4) Install the screw [4] and retainer plate [5] on each side of the lens.
- 5) Tighten the screw [4] to 10 in-lb (1.1 N·m) - 15 in-lb (1.7 N·m).

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

SUBTASK 33-21-00-860-005



**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.

EFFECTIVITY  
LOM ALL

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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (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.

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

**Power Distribution Panel Number 2, P92**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
E	11	C00594	WINDOW LIGHT RIGHT
E	12	C00776	WINDOW LIGHT LEFT

SUBTASK 33-21-00-410-003

- (8) Close this access panel:

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

SUBTASK 33-21-00-710-002

- (9) Do a test of the new light assembly:

NOTE: When the new light test is performed, you compare the result with other lights feedback.

- (a) At the applicable attendant panel, set the switch for the window lights to the bright mode.
  - 1) Make sure that the light comes on brightly.
- (b) Set the switch to the dim mode.
  - 1) Make sure that the light becomes dim.
- (c) Set the switch to the off mode.
  - 1) Make sure that the light goes off.

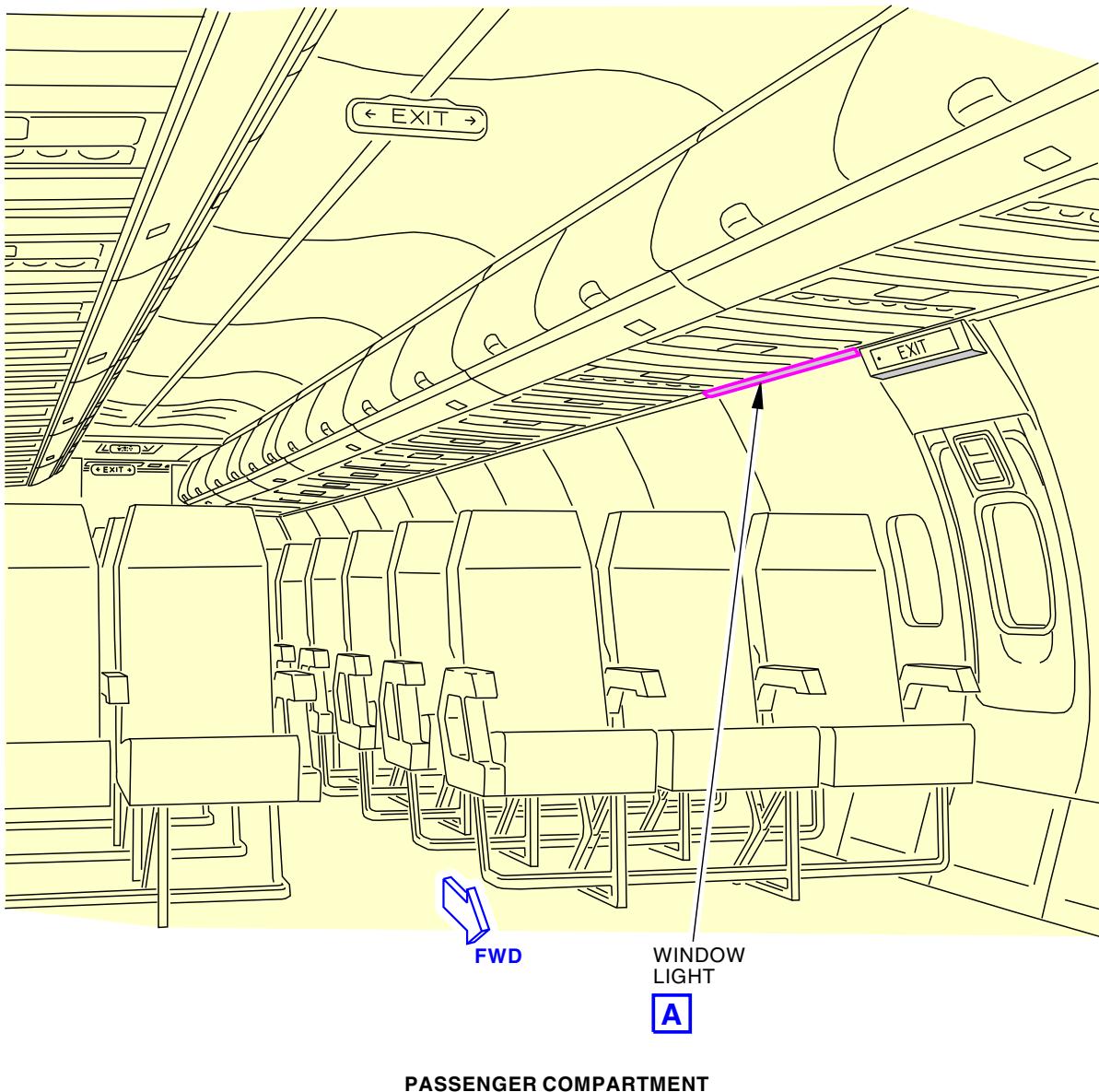
———— END OF TASK ————

— EFFECTIVITY —  
LOM ALL

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Window Light - Light Assembly Replacement  
Figure 204/33-21-00-990-802 (Sheet 1 of 2)

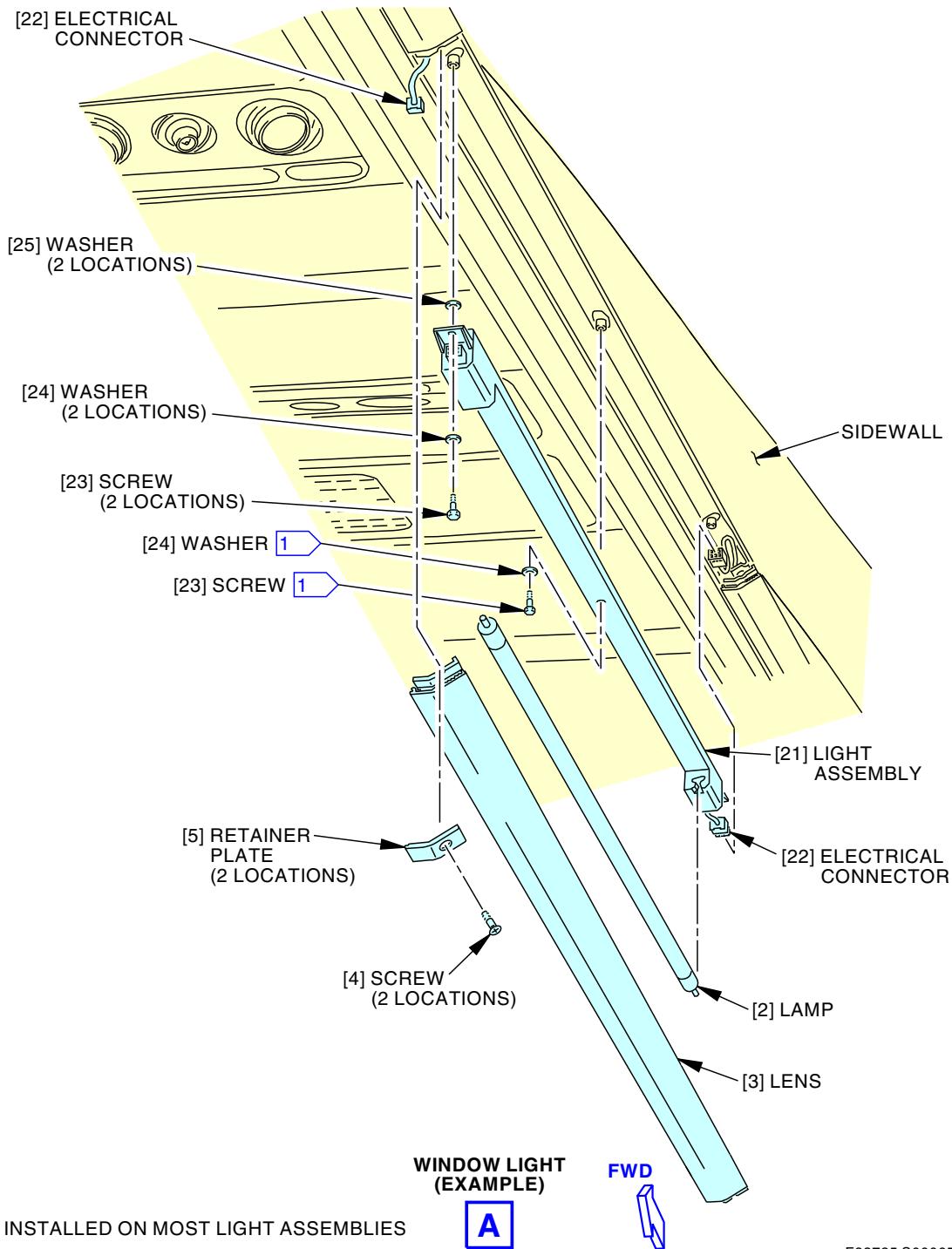
EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

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### Window Light - Light Assembly Replacement

Figure 204/33-21-00-990-802 (Sheet 2 of 2)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)**

**TASK 33-21-00-960-803**

**8. Window Light - Fuse Replacement**

(Figure 203 or Figure 205)

**A. References**

Reference	Title
WDM 33-21-11	Wiring Diagram Manual
WDM 33-21-12	Wiring Diagram Manual

**B. Tools/Equipment**

Reference	Description
STD-858	Tag - DO NOT OPERATE

**C. Location Zones**

Zone	Area
200	Upper Half of Fuselage

**D. Window Light Fuse Replacement**

SUBTASK 33-21-00-860-008

- (1) At the applicable attendant panel, set the switch for the window lights to the off mode and attach the DO NOT OPERATE tag, STD-858.

SUBTASK 33-21-00-960-006



**WARNING** DO NOT TOUCH THE SOCKETS OR THE METAL ENDS OF THE LAMP.  
SHOCK CAN OCCUR WHEN YOU SUPPLY ELECTRICAL POWER TO THE  
LIGHT.

- (2) Do these steps to replace the fuse [1] or fuse [11] (WDM 33-21-11) (WDM 33-21-12):
  - (a) Remove the lamp [2] or lamp [14] (TASK 33-21-00-960-801 or TASK 33-21-00-960-806).
  - (b) Check and replace the fuse [1] or fuse [11] if it is unserviceable.
  - (c) Install the lamp [2] or lamp [14] (TASK 33-21-00-960-801 or TASK 33-21-00-960-806).
  - (d) Remove the DO NOT OPERATE tag, STD-858 from the applicable window light.

SUBTASK 33-21-00-710-003

- (3) Do a test of the new fuse:
  - (a) Set the applicable switch for the window lights to the bright mode.
    - 1) Make sure that the light comes on brightly.
  - (b) Set the switch to the dim mode.
    - 1) Make sure that the light becomes dim.
  - (c) Set the switch to the off mode.
    - 1) Make sure that the light goes off.

— END OF TASK —

EFFECTIVITY  
LOM ALL

**33-21-00**



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LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)

**TASK 33-21-00-960-806**

**9. Window Light - Overwing Exit Light Lamp Replacement**

(Figure 205)

**A. General**

- (1) This task includes the steps to replace the overwing exit light lamp.

**B. References**

Reference	Title
33-51-00-720-801	Emergency Lights - Operational Check (P/B 501)

**C. Tools/Equipment**

Reference	Description
STD-858	Tag - DO NOT OPERATE

**D. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
14	Lamp	33-21-00-39-145	LOM 416
		33-21-00-40-145	LOM 416
		33-21-51-30-140	LOM 402, 406, 407, 411, 412, 415, 420, 422-426
		33-21-51-30F-145	LOM 404

**E. Location Zones**

Zone	Area
200	Upper Half of Fuselage

**F. Prepare for the Replacement**

SUBTASK 33-21-00-860-039

- (1) Set the window lights switch, on the applicable attendant panel, to the OFF position.  
(a) Attach the DO NOT OPERATE tag, STD-858, to the window light switch.

SUBTASK 33-21-00-860-040

- (2) Make sure that the pilots emergency light switch, on the P5 overhead panel, is in the OFF position.

SUBTASK 33-21-00-860-041

- (3) Make sure that the emergency light switch, on the applicable attendant panel, is in the NORMAL position.

**G. Overwing Exit Light Lamp Replacement**

SUBTASK 33-21-00-960-007



DO NOT TOUCH THE SOCKETS OR THE METAL ENDS OF THE LAMP.  
SHOCK CAN OCCUR WHEN YOU SUPPLY ELECTRICAL POWER TO THE  
LIGHT.

- (1) Replace the lamp [14] and lamps [10] (if applicable), do these steps:  
(a) Remove the lens [13].

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LOM ALL

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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)**

- 1) Remove the screws [12] that attach the lens [13] to the emergency exit doorway lining.
- (b) Replace the lamp [14] and lamps [10] (if applicable).
- (c) Put the lens [13] into its position.
- (d) Install the screws [12].

**H. Overwing Exit Light Lamp Installation Test**

SUBTASK 33-21-00-860-042

- (1) Remove the DO NOT OPERATE tag, STD-858, from the applicable switch for the window light.

SUBTASK 33-21-00-710-009

- (2) Do a test of the new lamp [14]:

- (a) Set the window lights switch, on the applicable attendant panel, to the BRIGHT mode.
  - 1) Make sure that the light comes on brightly.
- (b) Set the window lights switch, on the applicable attendant panel, to the DIM mode.
  - 1) Make sure that the light becomes dim.
- (c) Set the window lights switch, on the applicable attendant panel, to the OFF mode.
  - 1) Make sure that the light goes off.

SUBTASK 33-21-00-720-003

- (3) Test the new lamps [10] (if applicable), do this task: Emergency Lights - Operational Check, TASK 33-51-00-720-801.

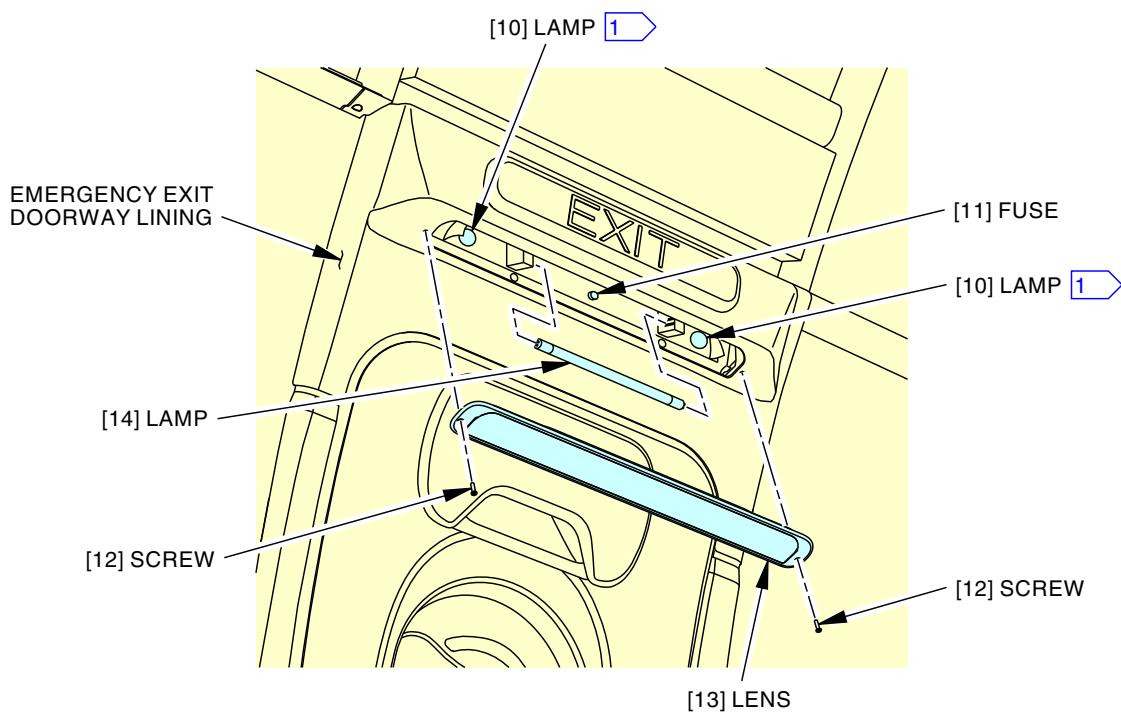
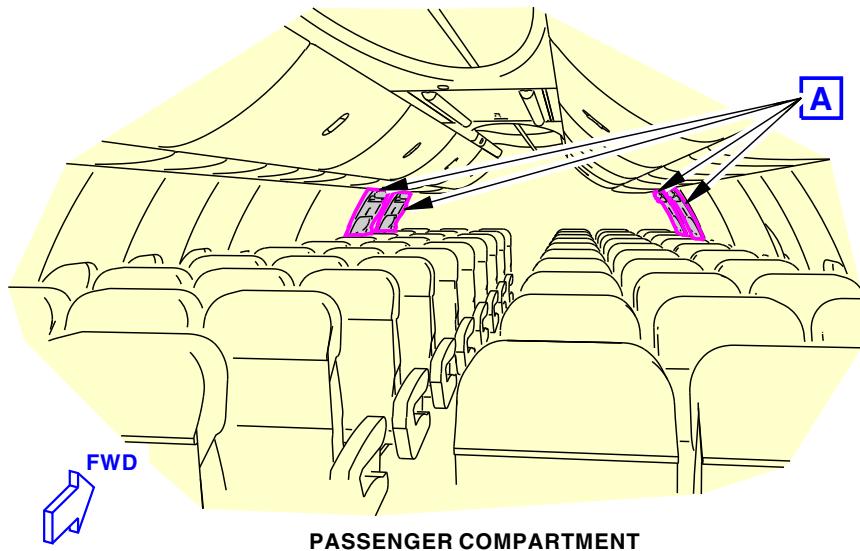
———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-21-00**



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IF APPLICABLE

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**Window Light - Overwing Exit Light Lamp Replacement**  
**Figure 205/33-21-00-990-807**

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

**33-21-00**

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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)**

**TASK 33-21-00-960-807**

**10. Window Light - Overwing Exit Light Assembly Replacement**

(Figure 206)

**A. General**

- (1) This task includes the steps to replace the overwing exit light assembly.

**B. References**

Reference	Title
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
25-21-20-000-801	Emergency Exit Doorway Lining Removal (P/B 401)
25-21-20-400-801	Emergency Exit Doorway Lining Installation (P/B 401)
33-51-00-720-801	Emergency Lights - Operational Check (P/B 501)

**C. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
17	Light assembly	33-21-00-39-595	LOM 416
		33-21-00-40-595	LOM 416
		33-21-51-30-440	LOM 402, 406, 407, 411, 412, 415, 420, 422-426
		33-21-51-30F-445	LOM 404

**D. Location Zones**

Zone	Area
118	Electrical and Electronics Compartment - Right
200	Upper Half of Fuselage

**E. Access Panels**

Number	Name/Location
117A	Electronic Equipment Access Door

**F. Prepare for the Replacement**

**SUBTASK 33-21-00-860-043**

- (1) Make sure that the pilots emergency light switch, on the P5 overhead panel, is in the OFF position.

**SUBTASK 33-21-00-860-044**

- (2) Make sure that the emergency light switch, on the applicable attendant panel, is in the NORMAL position.

**SUBTASK 33-21-00-860-045**

- (3) Do this task: Remove Electrical Power, TASK 24-22-00-860-812.  
(a) Make sure that the CAB/UTIL switch, on the P5-13 panel, is set to the OFF position.

EFFECTIVITY
LOM ALL

**33-21-00**



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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)**

SUBTASK 33-21-00-860-046

- (4) 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, 422-426**

A	10	C01357	PASS CABIN LIGHTING EMER CHGR L AFT
B	10	C01358	PASS CABIN LIGHTING EMER CHGR R AFT

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

SUBTASK 33-21-00-010-008

- (5) To get access to the P92 panel, open this access panel:

Number    Name/Location

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

SUBTASK 33-21-00-860-047



**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 2, P92**

Row    Col    Number    Name

E	11	C00594	WINDOW LIGHT RIGHT
E	12	C00776	WINDOW LIGHT LEFT

SUBTASK 33-21-00-040-009



**CAUTION**

DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

- (7) Before you touch the light assembly [17], do the procedure for devices that are sensitive to electrostatic discharge (TASK 20-40-12-000-802).

**G. Window Light Overwing Exit Light Assembly Replacement**

SUBTASK 33-21-00-020-005

- (1) Remove the light assembly [17], do these steps:

(a) Remove the screws [12] that attach the lens [13] to the emergency exit doorway lining.

EFFECTIVITY  
LOM ALL

**33-21-00**



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AIRCRAFT MAINTENANCE MANUAL**

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)**

- (b) Remove the lens [13].
- (c) Do this task: Emergency Exit Doorway Lining Removal, TASK 25-21-20-000-801.
  - 1) Do only the steps necessary for access to the light assembly installed on the back of the upper lining assembly.
- (d) Disconnect the electrical connectors [15] and electrical connector [18].  
NOTE: On some airplanes, a case ground wire is installed on pin 5 of the electrical connector.
- (e) Remove the screws [16].
- (f) Remove the light assembly [17].

SUBTASK 33-21-00-040-010



**CAUTION**

DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

- (2) Before you touch the light assembly [17], do the procedure for devices that are sensitive to electrostatic discharge (TASK 20-40-12-000-802).

SUBTASK 33-21-00-420-006

- (3) Install the light assembly [17], do these steps:
  - (a) Put the new light assembly [17] into its position.
    - 1) Make sure that a new lamp [14] and new lamps [10] (if applicable) are installed in the light assembly [17].
  - (b) Install the screws [16].
  - (c) Connect the electrical connectors [15] and electrical connector [18].
  - (d) Do this task: Emergency Exit Doorway Lining Installation, TASK 25-21-20-400-801.
  - (e) Put the lens [13] into its position.
  - (f) Install the screws [12].

## H. Overwing Exit Light Assembly Installation Test

SUBTASK 33-21-00-860-048



**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

**33-21-00**



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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (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 tags and close these circuit breakers:

**Power Distribution Panel Number 2, P92**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
E	11	C00594	WINDOW LIGHT RIGHT
E	12	C00776	WINDOW LIGHT LEFT

SUBTASK 33-21-00-410-008

- (2) Close this access panel:

**Number      Name/Location**

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

SUBTASK 33-21-00-860-049

- (3) 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>
<b>LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-426</b>			
A	10	C01357	PASS CABIN LIGHTING EMER CHGR L AFT
B	10	C01358	PASS CABIN LIGHTING EMER CHGR R AFT

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

SUBTASK 33-21-00-860-050

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

SUBTASK 33-21-00-710-010

- (5) Do a test of the light assembly [17], do these steps:

- (a) Set the window lights switch, on the applicable attendant panel, to the BRIGHT mode.
  - 1) Make sure that the light comes on brightly.
- (b) Set the window lights switch, on the applicable attendant panel, to the DIM mode.
  - 1) Make sure that the light becomes dim.
- (c) Set the window lights switch, on the applicable attendant panel, to the OFF mode.
  - 1) Make sure that the light goes off.

SUBTASK 33-21-00-720-004

- (6) If applicable, do this task: Emergency Lights - Operational Check, TASK 33-51-00-720-801.

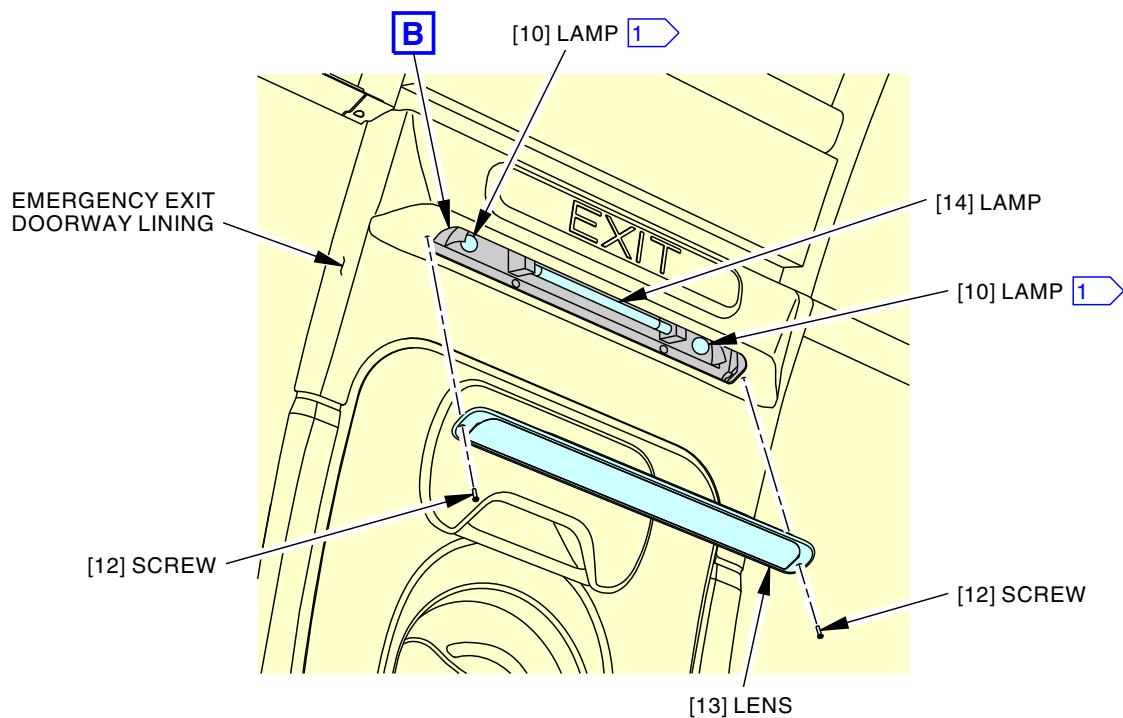
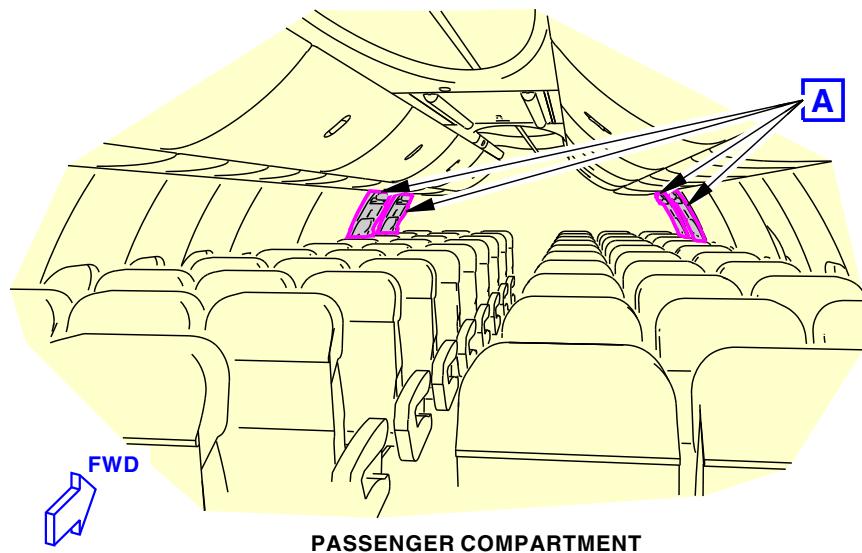
———— END OF TASK ————

— EFFECTIVITY —  
LOM ALL

**33-21-00**



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1 IF APPLICABLE

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Window Light - Overwing Exit Light Assembly Replacement  
Figure 206/33-21-00-990-808 (Sheet 1 of 2)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

33-21-00

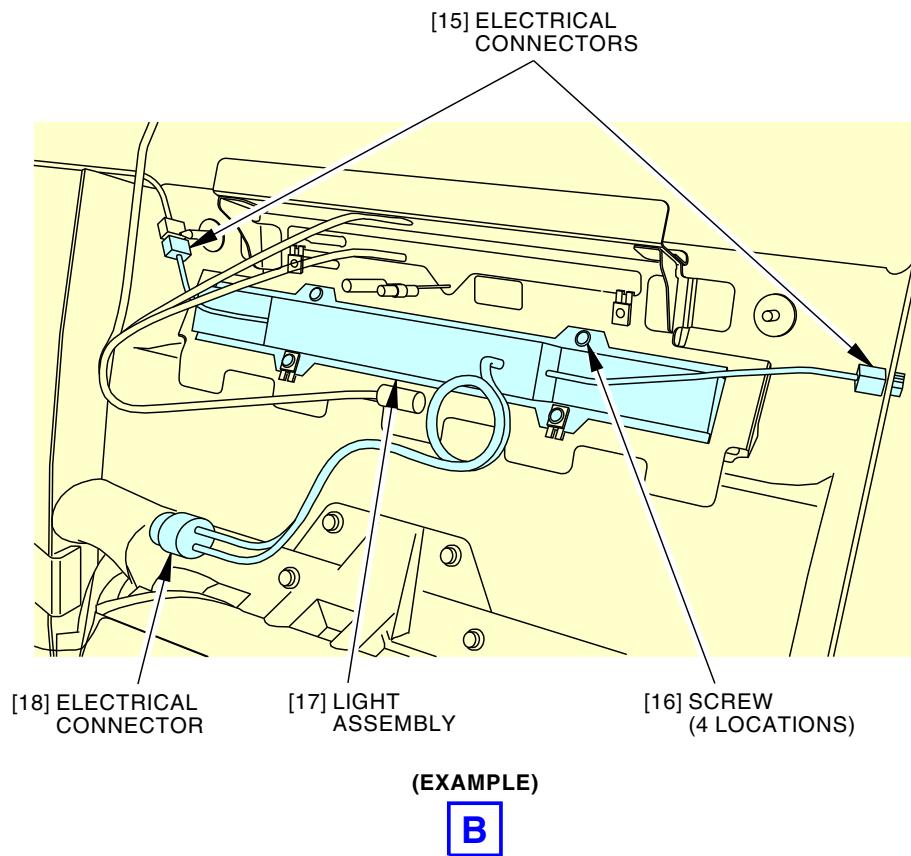
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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AIRCRAFT MAINTENANCE MANUAL



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**Window Light - Overwing Exit Light Assembly Replacement**  
**Figure 206/33-21-00-990-808 (Sheet 2 of 2)**

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

**33-21-00**

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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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**LOM 427-434, 437-447, 450-999**

**TASK 33-21-00-960-804**

**11. Window Light - LED Light Assembly Replacement**

(Figure 207)

**A. References**

Reference	Title
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)

**B. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
41	Light assembly	33-21-51-74-205	LOM 427-434, 437-447, 450-999
		33-21-51-74-210	LOM 427-434, 437-447, 450-999
		33-21-51-74-215	LOM 427-434, 437-447, 450-999
		33-21-51-74-220	LOM 427-434, 437-447, 450-999
		33-21-51-74-225	LOM 427-434, 437-447, 450-999
		33-21-51-81-070	LOM 462, 463
		33-21-51-81-150	LOM 462, 463

**C. Location Zones**

Zone	Area
118	Electrical and Electronics Compartment - Right
200	Upper Half of Fuselage
211	Flight Compartment - Left

**D. Access Panels**

Number	Name/Location
117A	Electronic Equipment Access Door

**E. Window LED Light Assembly Replacement**

**SUBTASK 33-21-00-860-011**

- (1) Make sure that electrical power is supplied to the airplane, do this task: Supply Electrical Power, TASK 24-22-00-860-811.

**SUBTASK 33-21-00-860-012**

- (2) Do these steps at the applicable attendant control panel:
  - (a) Make sure that the attendant control panel display is activated.
    - 1) To activate it, touch the opposite corners of the display sequentially within two seconds.
  - (b) If necessary, input the password to get access to the attendant control panel.
  - (c) On the attendant control panel display, touch the Lighting tab.

EFFECTIVITY	
LOM ALL	

**33-21-00**



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LOM 427-434, 437-447, 450-999 (Continued)

- (d) Below the Passenger Seating Area, touch the OFF button.

SUBTASK 33-21-00-010-004

- (3) To get access to the P92 panel, open this access panel:

Number    Name/Location

117A      Electronic Equipment Access Door

SUBTASK 33-21-00-860-013



**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.



**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 2, P92**

Row

Col

Number

Name

E

11

C00594

WINDOW LIGHT RIGHT

E

12

C00776

WINDOW LIGHT LEFT

SUBTASK 33-21-00-040-005



**CAUTION**

DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

- (5) Before you touch the light assembly [41], do the procedure for devices that are sensitive to electrostatic discharge (TASK 20-40-12-000-802).

SUBTASK 33-21-00-020-001

- (6) Do these steps to remove the light assembly [41]:

- (a) Do these steps to remove the lens [45]:

- 1) Remove the screw [44] and retainer [43] from each end of the lens [45].
- 2) Remove the lens [45].

- (b) Disconnect the electrical connectors [42] from each end of the light assembly [41].

- (c) Remove the light assembly [41].

- 1) If there is a center mounting bracket, use a flat tool to carefully remove the light assembly [41] from the center mounting bracket.

EFFECTIVITY  
LOM ALL

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**LOM 427-434, 437-447, 450-999 (Continued)**

SUBTASK 33-21-00-040-006



**CAUTION**

DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

- (7) Before you touch the light assembly [41], do the procedure for devices that are sensitive to electrostatic discharge (TASK 20-40-12-400-802).

SUBTASK 33-21-00-420-001

- (8) Do these steps to install the light assembly [41]:

- (a) Put the light assembly [41] in position.

- 1) If there is a center mounting bracket, carefully push the light assembly [41] until it latches onto the mounting bracket.

- (b) Connect the connectors [42] from each end of the light assembly [41].

- (c) Do these steps to install the lens [45]:

- 1) Put the lens [45] in position.

- 2) Install the retainer [43] and screw [44] to each end of the lens [45].

- 3) Tighten the screws [44] to  $12.5 \pm 2.5$  in-lb ( $1.4 \pm 0.3$  N·m).

SUBTASK 33-21-00-860-014



**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.



**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.

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

**Power Distribution Panel Number 2, P92**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
E	11	C00594	WINDOW LIGHT RIGHT
E	12	C00776	WINDOW LIGHT LEFT

SUBTASK 33-21-00-410-004

- (10) Close this access panel:

Number      Name/Location

117A            Electronic Equipment Access Door

SUBTASK 33-21-00-860-023

- (11) AIRPLANES WITH P4 SOFTWARE;

EFFECTIVITY  
LOM ALL

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**AIRCRAFT MAINTENANCE MANUAL**

**LOM 427-434, 437-447, 450-999 (Continued)**

For loading data from the ACP to the LED lighting assemblies, do the steps that follow:

- (a) Press the "ACP to LRUs" button.
  - 1) The "ACP to LRUs" button should highlight.
- (b) Wait for the data load to finish.
- (c) Check to make sure that the Address, Scene, and Zone information are downloaded without errors.

SUBTASK 33-21-00-860-036

**(12) AIRPLANES WITH P5 SOFTWARE;**

For Phase 2 Data Load, do the steps that follow:

- (a) Push the "Phase 2 Data Load" button.

NOTE: When the user selects the Phase 2 Data Load button, the screen will show the LSAP selection table and control window. The current configuration is selected at default. The user can select another LSAP to load into the ACP's and the light LRU's.

- (b) Select the LSAP in the Mass Storage Area.
- (c) Push the "Start" button.

NOTE: Once the process has started, the result window will show the current progress of the file transfer. The status bar will show the approximate percent complete as the process executes.

SUBTASK 33-21-00-710-004

**(13) Do a test of the new light assembly:**

- (a) Make sure that the attendant control panel display is activated. To activate it, touch the opposite corners of the display sequentially within two seconds.

- (b) If necessary, input the password to get access to the attendant control panel.

- (c) Make sure the CAB/UTIL switch at the P5-13 panel is set to the ON position.

- (d) On the attendant control panel display, touch the Lighting tab.

- (e) Below the Passenger Seating Area, touch the White BRIGHT button.

- 1) Make sure that the light comes on brightly.

- (f) Touch the White MEDIUM button.

- 1) Make sure that the light becomes medium.

- (g) Touch the Boarding/Deplane button.

- 1) Make sure that the light color in the passenger compartment is equivalent to the light type shown below the General Lighting Layout on the attendant control panel display.

NOTE: The light can take at least 15 seconds to change.

- (h) Touch the OFF button.

- 1) Make sure that the light goes off.

- (i) If it is not necessary, set the CAB/UTIL switch at the P5-13 panel to the OFF position.

EFFECTIVITY  
LOM ALL

**33-21-00**



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**LOM 427-434, 437-447, 450-999 (Continued)**

SUBTASK 33-21-00-860-016

- (14) If electrical power is not necessary, then do this task: Remove Electrical Power, TASK 24-22-00-860-812.

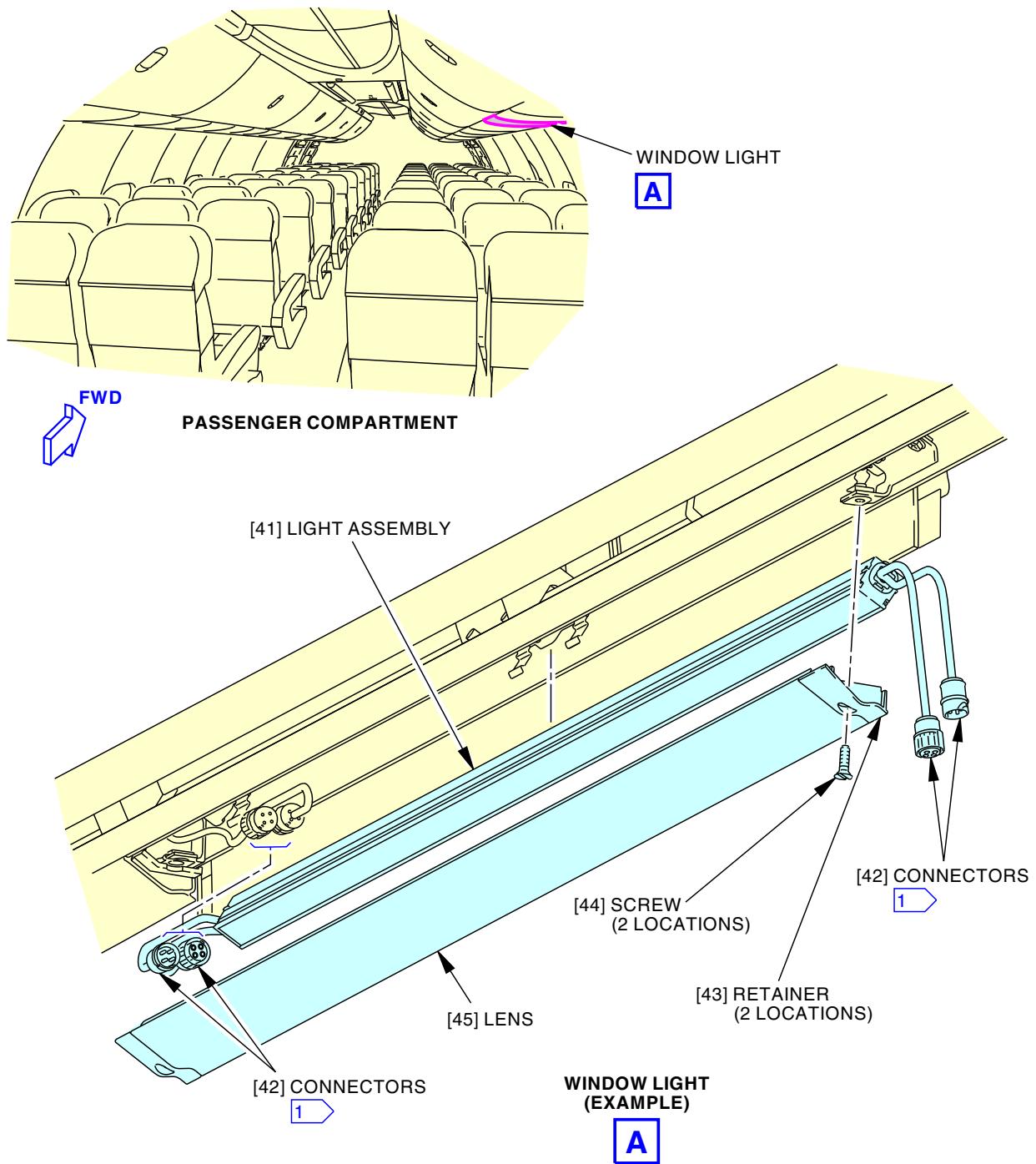
———— END OF TASK ————

— EFFECTIVITY —  
**LOM ALL**

**33-21-00**



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1 TOTAL NUMBER OF CONNECTORS FOR ONE LIGHT ASSEMBLY IS VARIED FROM TWO TO FOUR

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**Window Light - LED Light Assembly Replacement**  
**Figure 207/33-21-00-990-803**

EFFECTIVITY  
LOM 427-434, 437-447, 450-999

**33-21-00**

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LOM 427-434, 437-447, 450-999 (Continued)

**TASK 33-21-00-960-805**

**12. Window Light - Overwing Exit Light Assembly Replacement**

(Figure 208)

**A. References**

Reference	Title
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)
23-42-03-470-801	Attendant Control Panel (ACP) Software Loading (P/B 201)
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
25-21-20-000-801	Emergency Exit Doorway Lining Removal (P/B 401)
25-21-20-400-801	Emergency Exit Doorway Lining Installation (P/B 401)
33-51-00-710-801	Emergency Lights - Operational Test (P/B 501)
33-51-00-720-801	Emergency Lights - Operational Check (P/B 501)
33-51-01-960-802	Exit Sign Light Assembly Replacement (P/B 201)

**B. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
61	Light assembly	33-21-51-74-380	LOM 427-434, 437-447, 450-999
		33-21-51-74-385	LOM 427-434, 437-447, 450-999

**C. Location Zones**

Zone	Area
118	Electrical and Electronics Compartment - Right
200	Upper Half of Fuselage
211	Flight Compartment - Left

**D. Access Panels**

Number	Name/Location
117A	Electronic Equipment Access Door

**E. Window Overwing Exit Light Assembly Replacement**

SUBTASK 33-21-00-860-017

- (1) Make sure that electrical power is supplied to the airplane, do this task: Supply Electrical Power, TASK 24-22-00-860-811.

SUBTASK 33-21-00-860-018

- (2) Do these steps at the applicable attendant control panel:
  - (a) Make sure that the attendant control panel display is activated.
    - 1) To activate it, touch the opposite corners of the display sequentially within two seconds.
  - (b) If necessary, input the password to get access to the attendant control panel.
  - (c) On the attendant control panel display, touch the Lighting tab.
  - (d) Below the Passenger Seating Area, touch the OFF button.

EFFECTIVITY  
LOM ALL

**33-21-00**



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LOM 427-434, 437-447, 450-999 (Continued)

SUBTASK 33-21-00-860-019

- (3) 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>
A	10	C01357	PASS CABIN LIGHTING EMER CHGR L AFT
B	10	C01358	PASS CABIN LIGHTING EMER CHGR R AFT

SUBTASK 33-21-00-010-005

- (4) To get access to the P92 panel, open this access panel:

**Number      Name/Location**

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

SUBTASK 33-21-00-860-037



**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 2, P92**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
E	11	C00594	WINDOW LIGHT RIGHT
E	12	C00776	WINDOW LIGHT LEFT

SUBTASK 33-21-00-040-007



**CAUTION**

DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

- (6) Before you touch the light assembly [61], do the procedure for devices that are sensitive to electrostatic discharge (TASK 20-40-12-000-802).

SUBTASK 33-21-00-000-001

- (7) Remove the overwing door exit sign light assembly (TASK 33-51-01-960-802).

SUBTASK 33-21-00-020-002

- (8) Do these steps to remove the light assembly [61]:

- Remove the fasteners [63].
- Remove the lens [64].

EFFECTIVITY  
LOM ALL

**33-21-00**



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**AIRCRAFT MAINTENANCE MANUAL**

**LOM 427-434, 437-447, 450-999 (Continued)**

- (c) Remove the fasteners [65], fasteners [62].
- (d) Get access to the light assembly [61] installed on the back of the upper lining assembly (TASK 25-21-20-000-801).

**NOTE:** Do only the steps necessary for access to the light assembly installed on the back of the upper lining assembly.
- (e) Disconnect the electrical connectors [66].
- (f) Remove the light assembly [61].

SUBTASK 33-21-00-040-008



**CAUTION**

DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

- (9) Before you touch the light assembly [61], do the procedure for devices that are sensitive to electrostatic discharge (TASK 20-40-12-400-802).

SUBTASK 33-21-00-420-002

- (10) Do these steps to install the light assembly [61]:
  - (a) Put the light assembly [61] in position.
  - (b) Install the fasteners [62] and fasteners [65].
    - 1) Tighten the fasteners [62] and fasteners [65]
  - (c) Connect the electrical connectors [66].
  - (d) Do this task: Emergency Exit Doorway Lining Installation, TASK 25-21-20-400-801.
  - (e) Put the lens [64] in position.
  - (f) Install the fasteners [63].
    - 1) Tighten the fasteners [63].

SUBTASK 33-21-00-420-005

- (11) Install the overwing door exit sign light assembly (TASK 33-51-01-960-802).

SUBTASK 33-21-00-860-020

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

**CAPT Electrical System Panel, P18-3**

**Row    Col    Number    Name**

A	10	C01357	PASS CABIN LIGHTING EMER CHGR L AFT
B	10	C01358	PASS CABIN LIGHTING EMER CHGR R AFT

SUBTASK 33-21-00-860-038



**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

**33-21-00**



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LOM 427-434, 437-447, 450-999 (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.

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

**Power Distribution Panel Number 2, P92**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
E	11	C00594	WINDOW LIGHT RIGHT
E	12	C00776	WINDOW LIGHT LEFT

SUBTASK 33-21-00-410-005

- (14) Close this access panel:

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

SUBTASK 33-21-00-860-021

- (15) Load the software to the new light assembly. To do it, do this task: Attendant Control Panel (ACP) Software Loading, TASK 23-42-03-470-801.

SUBTASK 33-21-00-710-007

- (16) Do a test of the new light assembly:

- (a) Make sure that the attendant control panel display is activated, touch the opposite corners of the display sequentially within two seconds.
- (b) If it is necessary, input the password to get access to the attendant control panel.
- (c) Make sure that the CAB/UTIL switch, at the P5-13 panel, is set to the ON position.
- (d) On the attendant control panel display, touch the Lighting tab.
- (e) Below the Passenger Seating Area, touch the White BRIGHT button.
  - 1) Make sure that the light comes on brightly.
- (f) Touch the White MEDIUM button.
  - 1) Make sure that the light becomes medium.
- (g) Touch the Boarding/Deplane button.
  - 1) Make sure that the light color in the passenger compartment is equivalent to the light type shown below the General Lighting Layout on the attendant control panel display.

NOTE: The light can take at least 15 seconds to change.
- (h) Touch the OFF button.
  - 1) Make sure that the light goes off.
- (i) If it is not necessary, set the CAB/UTIL switch, at the P5-13 panel, to the OFF position.

SUBTASK 33-21-00-710-008

- (17) Do this task: Emergency Lights - Operational Test, TASK 33-51-00-710-801.

EFFECTIVITY  
LOM ALL

**33-21-00**



**737-600/700/800/900**  
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**LOM 427-434, 437-447, 450-999 (Continued)**

SUBTASK 33-21-00-720-001

- (18) Do this task: Emergency Lights - Operational Check, TASK 33-51-00-720-801.

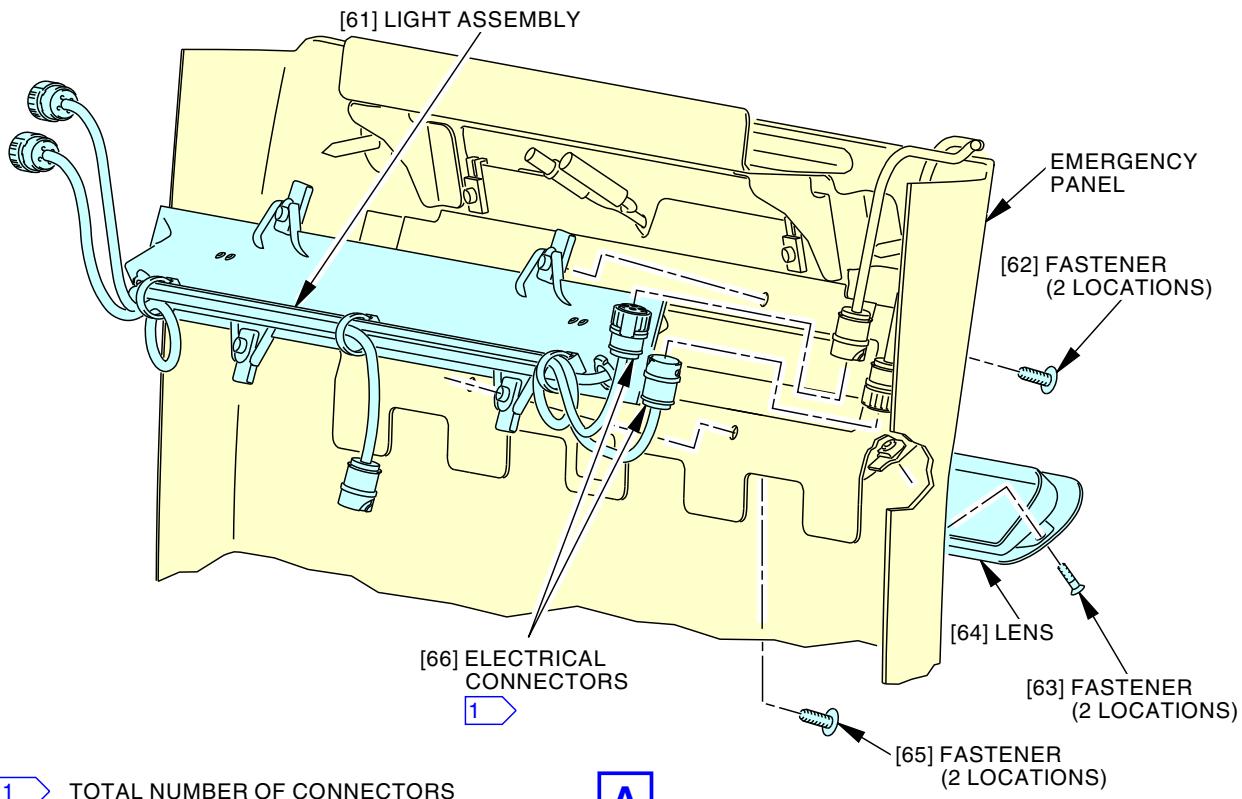
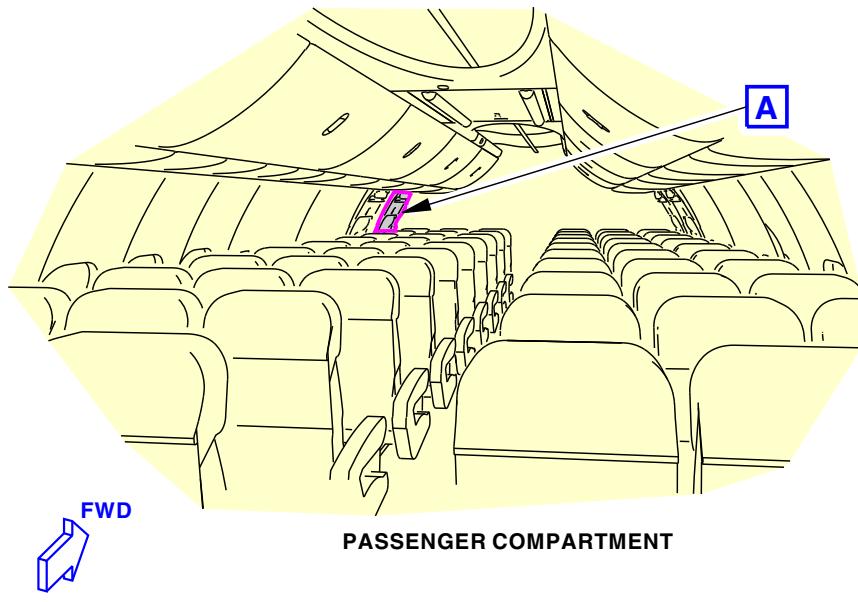
SUBTASK 33-21-00-860-022

- (19) If electrical power is not necessary, then do this task: Remove Electrical Power, TASK 24-22-00-860-812.

———— END OF TASK ————

— EFFECTIVITY —  
**LOM ALL**

**33-21-00**



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### Window Light - Overwing Exit Light Assembly Replacement

Figure 208/33-21-00-990-804

EFFECTIVITY  
LOM 427-434, 437-447, 450-999

**33-21-00**



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AIRCRAFT MAINTENANCE MANUAL

CEILING LIGHTS - MAINTENANCE PRACTICES

**1. General**

A. This procedure has these tasks:

**LOM 427-434, 437-447, 450-999**

- (1) BSI Ceiling LED Lighting Deactivation
- (2) BSI Ceiling LED Lighting Activation
- (3) BSI Entry and Cove LED Lighting Deactivation
- (4) BSI Entry and Cove LED Lighting Activation

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

- (5) Ceiling Lighting Deactivation
- (6) Ceiling Lighting Activation
- (7) Ceiling Light, Recessed - Lamp Replacement
- (8) Ceiling Light, Bin - Lamp Replacement
- (9) Ceiling Light, Night - Lamp Replacement
- (10) Ceiling Light, Recessed - Light Assembly Replacement
- (11) Ceiling Light, Bin - Light Assembly Replacement
- (12) Ceiling Light, Bin - Fuse Replacement

**LOM 427-434, 437-447, 450-999**

- (13) Ceiling Light, Bin/Wash - LED Light Assembly Replacement
- (14) Ceiling Light, Direct - LED Light Assembly Replacement
- (15) Ceiling Light, Cove - LED Light Assembly Replacement
- (16) Ceiling Light, Center Overhead Stowage - LED Light Assembly Replacement

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

B. If there is a problem with the ballast, replace the light assembly.

**LOM 427-434, 437-447, 450-999**

**TASK 33-22-00-040-801**

**2. BSI Ceiling LED Lighting - Deactivation**

(Figure 201)

**A. General**

- (1) This procedure removes electrical power to the ceiling lights.

**B. Location Zones**

Zone	Area
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage
211	Flight Compartment - Left

**C. Access Panels**

Number	Name/Location
117A	Electronic Equipment Access Door

EFFECTIVITY  
LOM ALL

**33-22-00**



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LOM 427-434, 437-447, 450-999 (Continued)

D. BSI Ceiling LED Lighting Deactivation

SUBTASK 33-22-00-860-051

- (1) Ensure the Utility switch (ELEC METERS, BATTERY AND GALLEY PWR MODULE) on P5 -13 is in the ON position.

SUBTASK 33-22-00-010-007

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

Number      Name/Location

117A      Electronic Equipment Access Door

SUBTASK 33-22-00-860-052



**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 this circuit breaker is closed:

**Power Distribution Panel Number 1, P91**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	4	C00184	GND SERV CLG NIGHT CONT

SUBTASK 33-22-00-860-053



**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

**33-22-00**



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LOM 427-434, 437-447, 450-999 (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.

- (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>
E	7	C01937	CEILING LIGHT AFT-L
E	8	C01938	CEILING LIGHT AFT-R
E	9	C00590	CEILING LT-R
E	10	C00591	CEILING LT-L

**E. BSI Ceiling LED Lighting - Tryout**

NOTE: This tryout is to make sure that the BSI Ceiling LED Lighting is in a zero energy state.

SUBTASK 33-22-00-860-055



**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 this circuit breaker is closed:

**Power Distribution Panel Number 1, P91**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	4	C00184	GND SERV CLG NIGHT CONT

SUBTASK 33-22-00-410-015

- (2) Close this access panel:

Number      Name/Location

117A            Electronic Equipment Access Door

SUBTASK 33-22-00-211-001

- (3) Make sure that the ceilings light on both sides are off.

NOTE: The ceiling lights are controlled by the Attendant Control Panel (ACP).

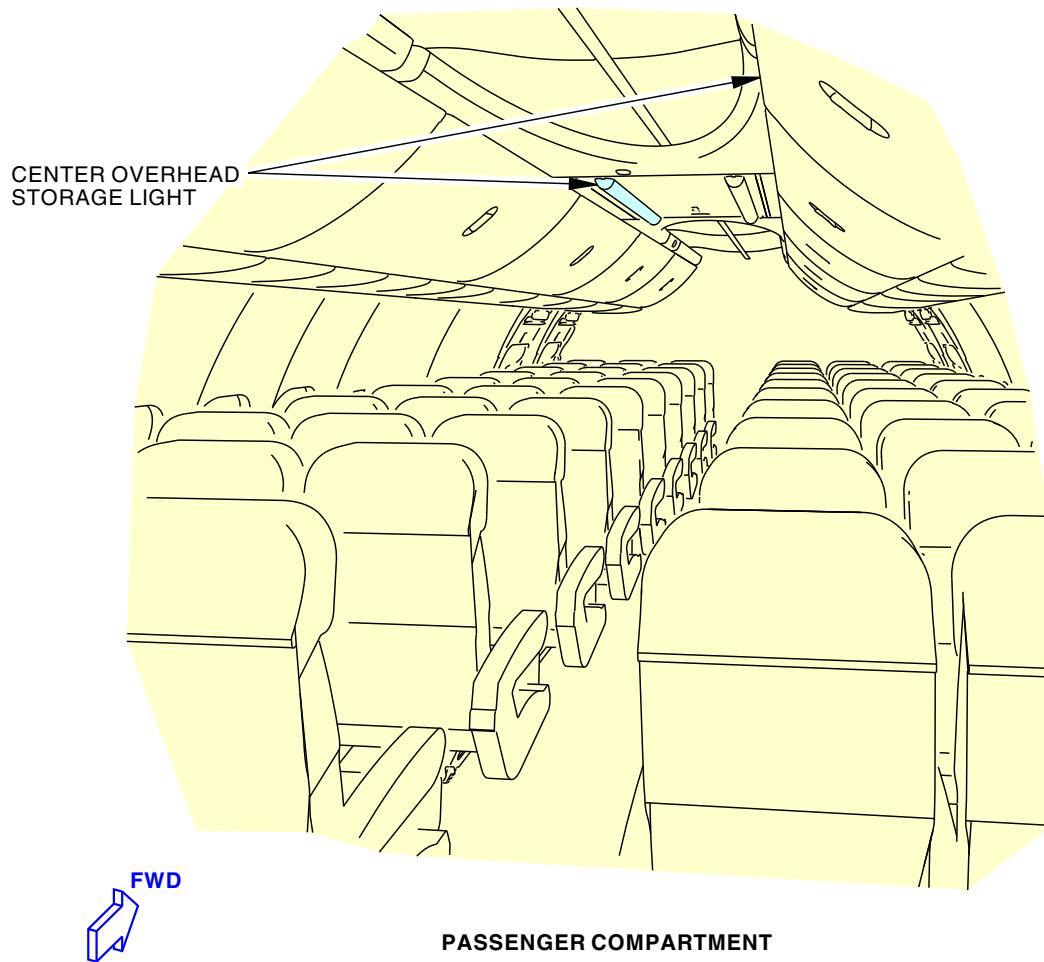
———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-22-00**



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AIRCRAFT MAINTENANCE MANUAL



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**Ceiling Lights**  
Figure 201/33-22-00-990-810

EFFECTIVITY  
LOM 427-434, 437-447, 450-999

**33-22-00**

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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AIRCRAFT MAINTENANCE MANUAL

LOM 427-434, 437-447, 450-999 (Continued)

**TASK 33-22-00-440-801**

**3. BSI Ceiling LED Lighting - Activation**

(Figure 201)

**A. General**

- (1) This procedure adds electrical power to the ceiling lights.

**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. BSI Ceiling LED Lighting Activation**

SUBTASK 33-22-00-010-017

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

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 33-22-00-860-056



**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	4	C00184	GND SERV CLG NIGHT CONT

EFFECTIVITY  
LOM ALL

**33-22-00**

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AIRCRAFT MAINTENANCE MANUAL

LOM 427-434, 437-447, 450-999 (Continued)

SUBTASK 33-22-00-860-054



**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 tags and close these circuit breakers:

**Power Distribution Panel Number 1, P91**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
E	7	C01937	CEILING LIGHT AFT-L
E	8	C01938	CEILING LIGHT AFT-R
E	9	C00590	CEILING LT-R
E	10	C00591	CEILING LT-L

SUBTASK 33-22-00-410-005

- (4) Close this access panel:

Number      Name/Location

117A            Electronic Equipment Access Door

———— END OF TASK ————

**TASK 33-22-00-040-802**

**4. BSI Entry and Cove LED Lighting - Deactivation**

(Figure 202)

**A. General**

- (1) This procedure removes electrical power to the entry and cove LED lights.

**B. Location Zones**

<u>Zone</u>	<u>Area</u>
117	Electrical and Electronics Compartment - Left
118	Electrical and Electronics Compartment - Right
211	Flight Compartment - Left
231	Forward Passenger Compartment - Forward Entry Door to Sta 663.75 - Left
232	Forward Passenger Compartment - Forward Entry Door to Sta 663.75 - Right
241	Aft Passenger Compartment - Station 663.75 to Aft Pressure Bulkhead - Left
242	Aft Passenger Compartment - Station 663.75 to Aft Pressure Bulkhead - Right

— EFFECTIVITY —  
**LOM ALL**

**33-22-00**

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LOM 427-434, 437-447, 450-999 (Continued)

C. Access Panels

Number    Name/Location

117A      Electronic Equipment Access Door

D. BSI Entry and Cove LED Lighting Deactivation

SUBTASK 33-22-00-860-057

- (1) Ensure the Utility switch (ELEC METERS, BATTERY AND GALLEY PWR MODULE) on P5 -13 is in the ON position.

SUBTASK 33-22-00-010-008

- (2) To get access to the P91 and P92 panels, open this access panel:

Number    Name/Location

117A      Electronic Equipment Access Door

SUBTASK 33-22-00-860-058



**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 this circuit breaker is closed:

**Power Distribution Panel Number 1, P91**

Row    Col    Number    Name

C      4      C00184      GND SERV CLG NIGHT CONT

SUBTASK 33-22-00-860-059



**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

**33-22-00**



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LOM 427-434, 437-447, 450-999 (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.

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

**Power Distribution Panel Number 2, P92**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
E	5	C01939	COVE LIGHT

**E. BSI Entry and Cove LED Lighting - Tryout**

NOTE: This tryout is to make sure the BSI Entry and Cove LED Lighting is in a zero energy state.

SUBTASK 33-22-00-860-060



**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.

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

**Power Distribution Panel Number 1, P91**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	4	C00184	GND SERV CLG NIGHT CONT

SUBTASK 33-22-00-410-016

- (2) Close this access panel:

**Number      Name/Location**

117A      Electronic Equipment Access Door

SUBTASK 33-22-00-211-003

- (3) Verify the FWD and AFT Entry and Cove LED Lights are off.

NOTE: The entry and cove lights are controlled by the Attendant Control Panel (ACP).

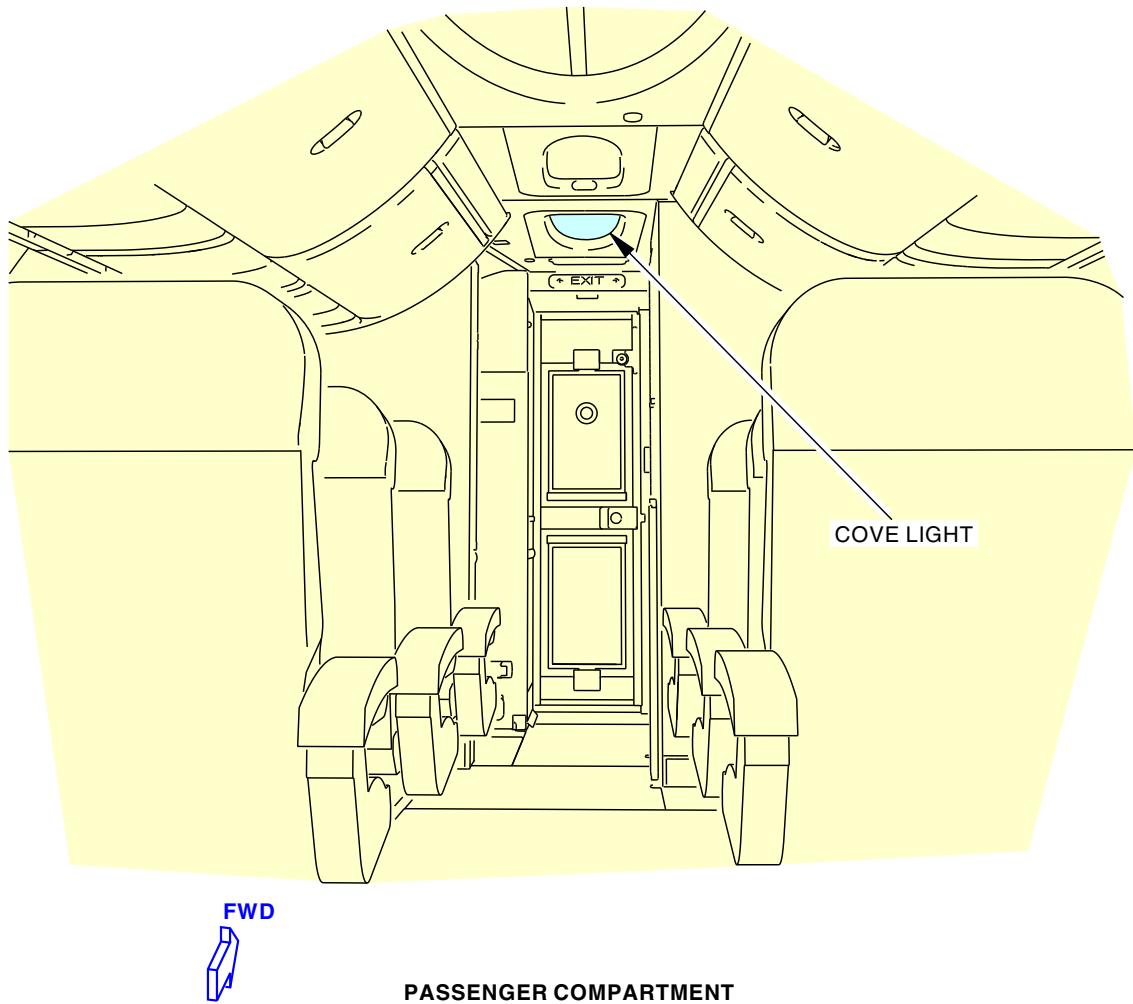
———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-22-00**



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AIRCRAFT MAINTENANCE MANUAL



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**Entry and Cove Lights**  
Figure 202/33-22-00-990-811

EFFECTIVITY  
LOM 427-434, 437-447, 450-999

**33-22-00**

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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LOM 427-434, 437-447, 450-999 (Continued)

**TASK 33-22-00-440-802**

**5. BSI Entry and Cove LED Lighting - Activation**

(Figure 202)

**A. General**

- (1) This procedure adds electrical power to the entry and cove LED Lights.

**B. Location Zones**

<b>Zone</b>	<b>Area</b>
117	Electrical and Electronics Compartment - Left
118	Electrical and Electronics Compartment - Right
231	Forward Passenger Compartment - Forward Entry Door to Sta 663.75 - Left
232	Forward Passenger Compartment - Forward Entry Door to Sta 663.75 - Right
241	Aft Passenger Compartment - Station 663.75 to Aft Pressure Bulkhead - Left
242	Aft Passenger Compartment - Station 663.75 to Aft Pressure Bulkhead - Right

**C. Access Panels**

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

**D. BSI Entry and Cove LED Lighting Activation**

SUBTASK 33-22-00-010-018

- (1) To get access to the P91 and P92 panels, open this access panel:

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

SUBTASK 33-22-00-860-061



**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**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
C	4	C00184	GND SERV CLG NIGHT CONT

EFFECTIVITY  
LOM ALL

**33-22-00**



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LOM 427-434, 437-447, 450-999 (Continued)

SUBTASK 33-22-00-860-062



**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 2, P92**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
E	5	C01939	COVE LIGHT

SUBTASK 33-22-00-410-006

- (4) Close this access panel:

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

———— END OF TASK ————

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426

**TASK 33-22-00-040-803**

**6. Ceiling Lighting - Deactivation**

(Figure 203)

**A. General**

- (1) This procedure removes electrical power to the ceiling lights.

**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**

**33-22-00**



**737-600/700/800/900**  
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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)**

**D. Ceiling Lighting Deactivation**

SUBTASK 33-22-00-010-009

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

**Number      Name/Location**

117A      Electronic Equipment Access Door

SUBTASK 33-22-00-860-064



**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        4        C00184      GND SERV CLG NIGHT CONT

SUBTASK 33-22-00-860-063



**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.



**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**

D	11	C00590	CEILING LT-R
D	12	C00591	CEILING LT-L

EFFECTIVITY  
LOM ALL

**33-22-00**



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LOM 402, 404, 406 (Continued)

(Continued)

**Power Distribution Panel Number 1, P91**

Row    Col    Number    Name

**LOM 407, 411, 412, 415, 416, 420, 422-426**

E	9	C00590	CEILING LT-R
E	10	C00591	CEILING LT-L

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

**E. Ceiling Lighting - Tryout**

NOTE: This tryout is to make sure that the Ceiling Lighting is in a zero energy state.

SUBTASK 33-22-00-860-065



**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 this circuit breaker is closed:

**Power Distribution Panel Number 1, P91**

Row    Col    Number    Name

C	4	C00184	GND SERV CLG NIGHT CONT
---	---	--------	-------------------------

SUBTASK 33-22-00-410-017

- (2) Close this access panel:

Number    Name/Location

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

SUBTASK 33-22-00-211-005

- (3) Do the following steps to make sure that the ceiling lights are off:

- Turn the ceiling light switch, on the FWD Attendant panel, to "DIM" and confirm all the ceiling lights are off.

NOTE: For dual zone also turn the ceiling light switch, on the AFT Attendant panel, to "DIM" and confirm all the aft ceiling lights are off.

- Turn the ceiling light switch on the FWD Attendant panel, to "BRIGHT" and confirm all the ceiling lights are off.

NOTE: For dual zone also turn the ceiling light switch, on the AFT Attendant panel, to "BRIGHT" and confirm all the aft ceiling lights are off.

EFFECTIVITY  
LOM ALL

**33-22-00**



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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)**

- (c) Turn the ceiling light switch on the FWD Attendant panel, to "NIGHT" and confirm all the six to eight incandescent ceiling night lights are off.

NOTE: For dual zone also turn the ceiling light switch, on the AFT Attendant panel, to "NIGHT" and confirm all the aft ceiling night lights are off.

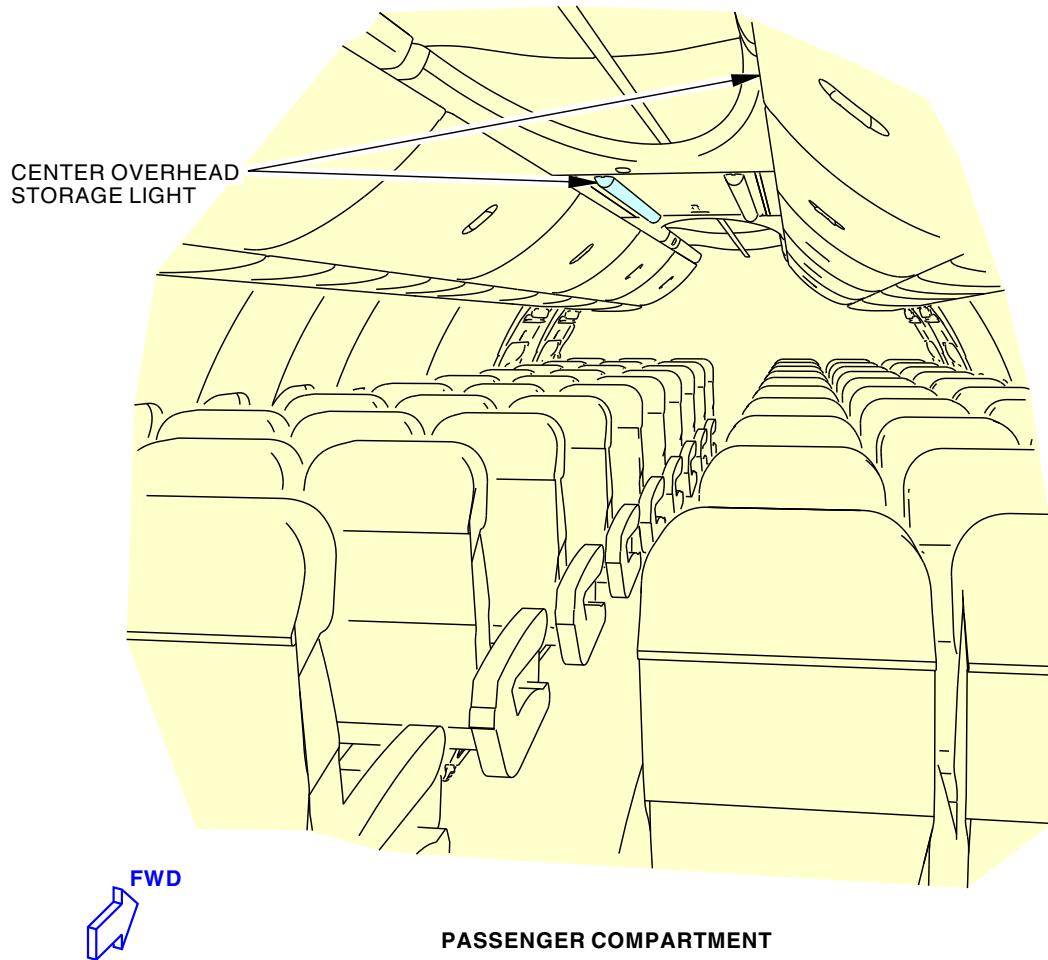
———— END OF TASK ——

— EFFECTIVITY —  
**LOM ALL**

**33-22-00**



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AIRCRAFT MAINTENANCE MANUAL



2361956 S0000540081\_V2

**Ceiling Lights**  
Figure 203/33-22-00-990-812

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

**33-22-00**

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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**737-600/700/800/900**  
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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)**

**TASK 33-22-00-440-803**

**7. Ceiling Lighting - Activation**

(Figure 203)

**A. General**

- (1) This procedure adds electrical power to the ceiling lights.

**B. Location Zones**

<b>Zone</b>	<b>Area</b>
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage

**C. Access Panels**

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

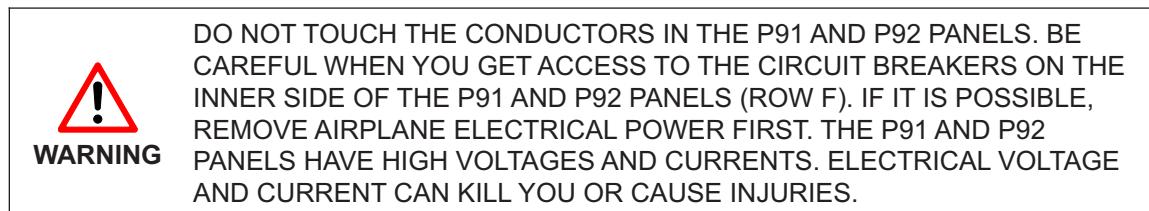
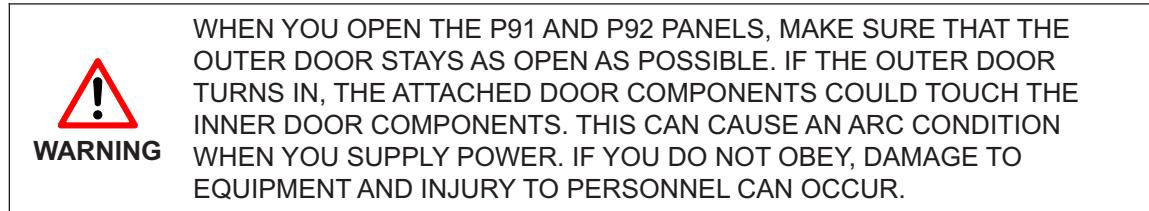
**D. Ceiling Lighting Activation**

SUBTASK 33-22-00-010-019

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

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

SUBTASK 33-22-00-860-066



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

**Power Distribution Panel Number 1, P91**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
C	4	C00184	GND SERV CLG NIGHT CONT

EFFECTIVITY  
LOM ALL

**33-22-00**



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LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)

SUBTASK 33-22-00-860-067



**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 tags and close these circuit breakers:

**Power Distribution Panel Number 1, P91**

Row   Col   Number   Name

**LOM 402, 404, 406**

D	11	C00590	CEILING LT-R
D	12	C00591	CEILING LT-L

**LOM 407, 411, 412, 415, 416, 420, 422-426**

E	9	C00590	CEILING LT-R
E	10	C00591	CEILING LT-L

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

SUBTASK 33-22-00-410-007

- (4) Close this access panel:

Number   Name/Location

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

———— END OF TASK ————

**TASK 33-22-00-960-801**

**8. Ceiling Light, Recessed - Lamp Replacement**

(Figure 204)

**A. References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
25-21-71-000-804	Horseshoe Panel Removal (P/B 401)
25-21-71-400-804	Horseshoe Panel Installation (P/B 401)
WDM 33-22-11	Wiring Diagram Manual

**B. Location Zones**

Zone	Area
200	Upper Half of Fuselage

EFFECTIVITY  
LOM ALL

**33-22-00**



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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)**

**C. Ceiling Light, Recessed Lamp Replacement**

SUBTASK 33-22-00-860-001

- (1) At the forward attendant panel, set the switch for the ceiling lights to the off mode and attach the DO-NOT-OPERATE tag.

SUBTASK 33-22-00-960-001



**WARNING** DO NOT TOUCH THE SOCKETS OR THE METAL ENDS OF THE LAMP.  
SHOCK CAN OCCUR WHEN YOU SUPPLY ELECTRICAL POWER TO THE  
LIGHT.

- (2) Do these steps to replace the lamp (WDM 33-22-11):

- (a) Lower the recessed ceiling panel.

**NOTE:** This panel is part of the horseshoe panel (Horseshoe Panel Removal, TASK 25-21-71-000-804).

- (b) Replace the lamp [1].
  - (c) Close the recessed ceiling panel (Horseshoe Panel Installation, TASK 25-21-71-400-804).
  - (d) Remove the DO-NOT-OPERATE tag from the applicable ceiling light.

SUBTASK 33-22-00-860-002

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

SUBTASK 33-22-00-710-001

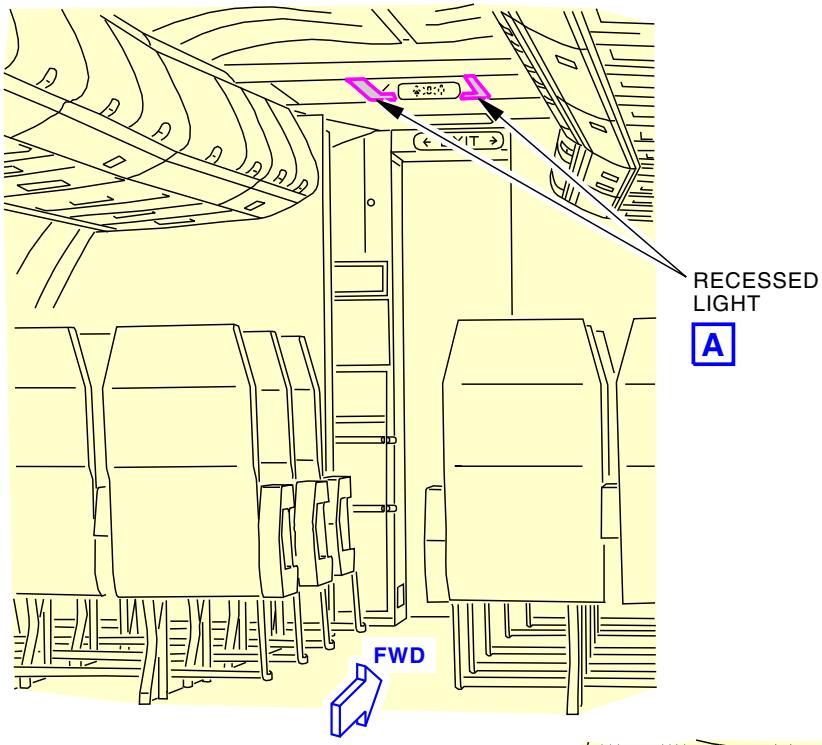
- (4) Do a test of the new lamp:

- (a) Set the switch for the ceiling lights to the bright mode.
    - 1) Make sure that the lamp comes on brightly.
  - (b) Set the switch to the usual mode.

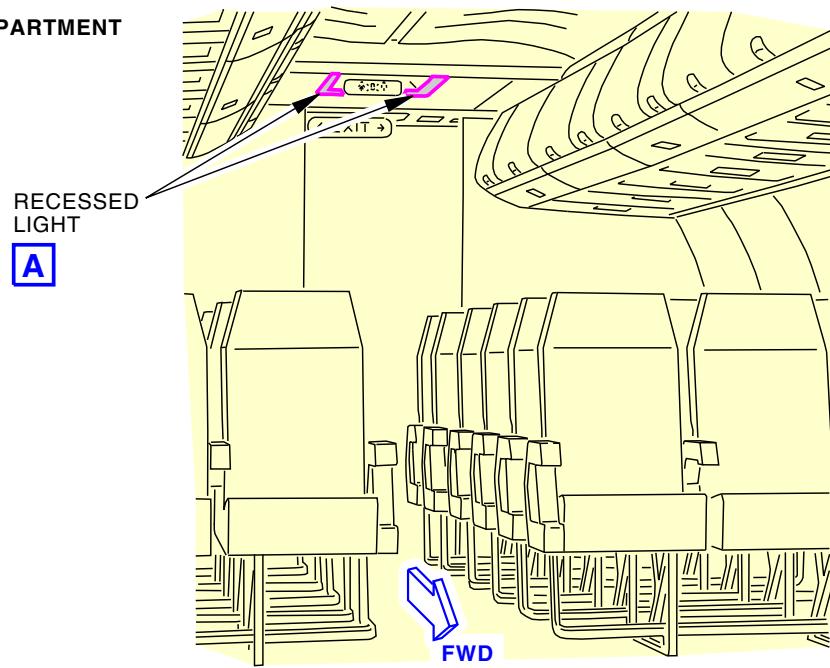
———— END OF TASK ————

EFFECTIVITY  
**LOM ALL**

**33-22-00**



PASSENGER COMPARTMENT



PASSENGER COMPARTMENT

F84226 S0006576011\_V2

**Ceiling Light, Recessed - Lamp Replacement**  
Figure 204/33-22-00-990-801 (Sheet 1 of 2)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

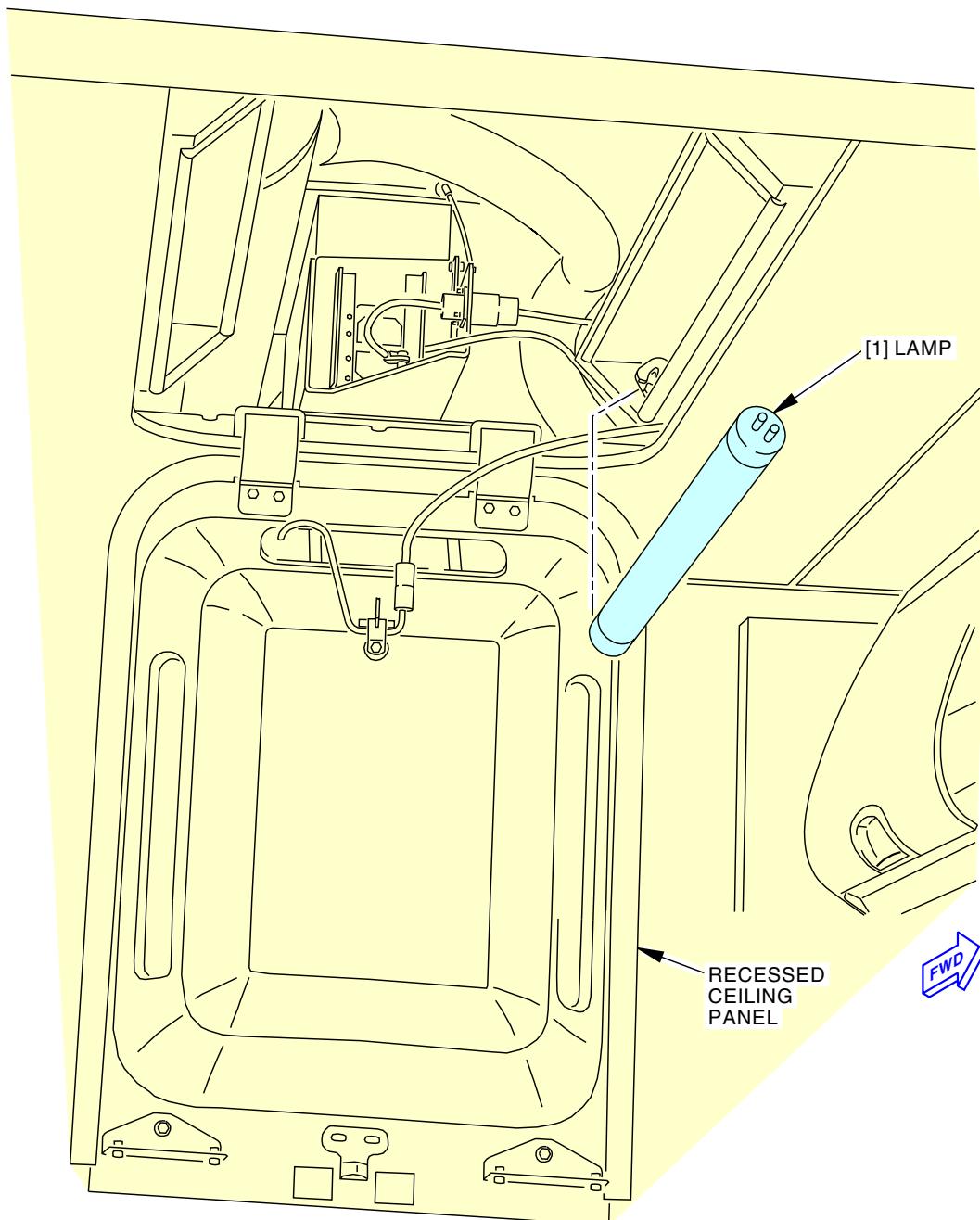
**33-22-00**

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Ceiling Light, Recessed - Lamp Replacement  
Figure 204/33-22-00-990-801 (Sheet 2 of 2)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

**33-22-00**

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LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)

**TASK 33-22-00-960-802**

**9. Ceiling Light, Bin - Lamp Replacement**

(Figure 205)

**A. References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
WDM 33-22-11	Wiring Diagram Manual

**B. Location Zones**

Zone	Area
200	Upper Half of Fuselage

**C. Ceiling Light, Bin Lamp Replacement**

SUBTASK 33-22-00-860-004



**CAUTION** DO NOT REPLACE THE LAMP UNTIL YOU REMOVE ELECTRICAL POWER FROM THE CIRCUIT. IF YOU DO NOT REMOVE ELECTRICAL POWER, YOU CAN CAUSE DAMAGE TO THE FUSE IN THE LIGHT ASSEMBLY.

- (1) At the forward attendant panel, set the switch for the ceiling lights to the off mode and attach the DO-NOT-OPERATE tag.

SUBTASK 33-22-00-960-002



**WARNING** DO NOT TOUCH THE SOCKETS OR THE METAL ENDS OF THE LAMP. SHOCK CAN OCCUR WHEN YOU SUPPLY ELECTRICAL POWER TO THE LIGHT.

- (2) Do these steps to replace the lamp (WDM 33-22-11):
- Reach over the light shield for access to the lamp.  
NOTE: Do not remove the light shield.
  - Lift the plastic cover away from the lamp.  
NOTE: The plastic cover is attached on the inboard side of the light assembly with Velcro.
  - Remove the lamp [21].  
NOTE: Some fluorescent lamps are 70 inches long. Be careful when you replace them.
  - Install the new lamp [21].
  - Attach the plastic cover.
  - Remove the DO-NOT-OPERATE tag from the applicable ceiling light.

SUBTASK 33-22-00-860-005

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

SUBTASK 33-22-00-710-002

- (4) Do a test of the new lamp:
- Set the switch for the ceiling lights to the bright mode.
    - Make sure that the light comes on brightly.

EFFECTIVITY  
LOM ALL

**33-22-00**



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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)**

- (b) Set the switch to the usual mode.

———— END OF TASK ————

— EFFECTIVITY —  
**LOM ALL**

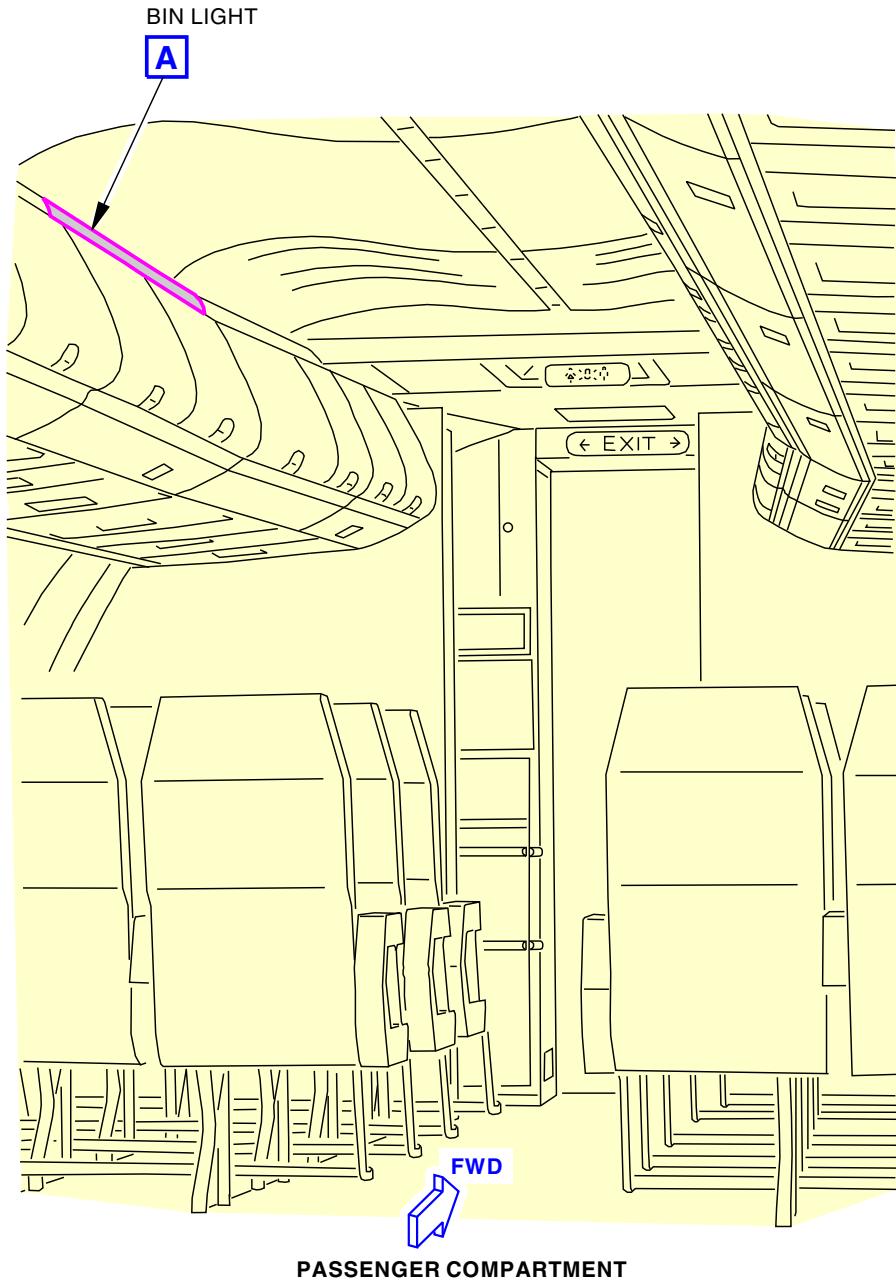
**33-22-00**

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Ceiling Light, Bin - Lamp Replacement  
Figure 205/33-22-00-990-802 (Sheet 1 of 2)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

**33-22-00**

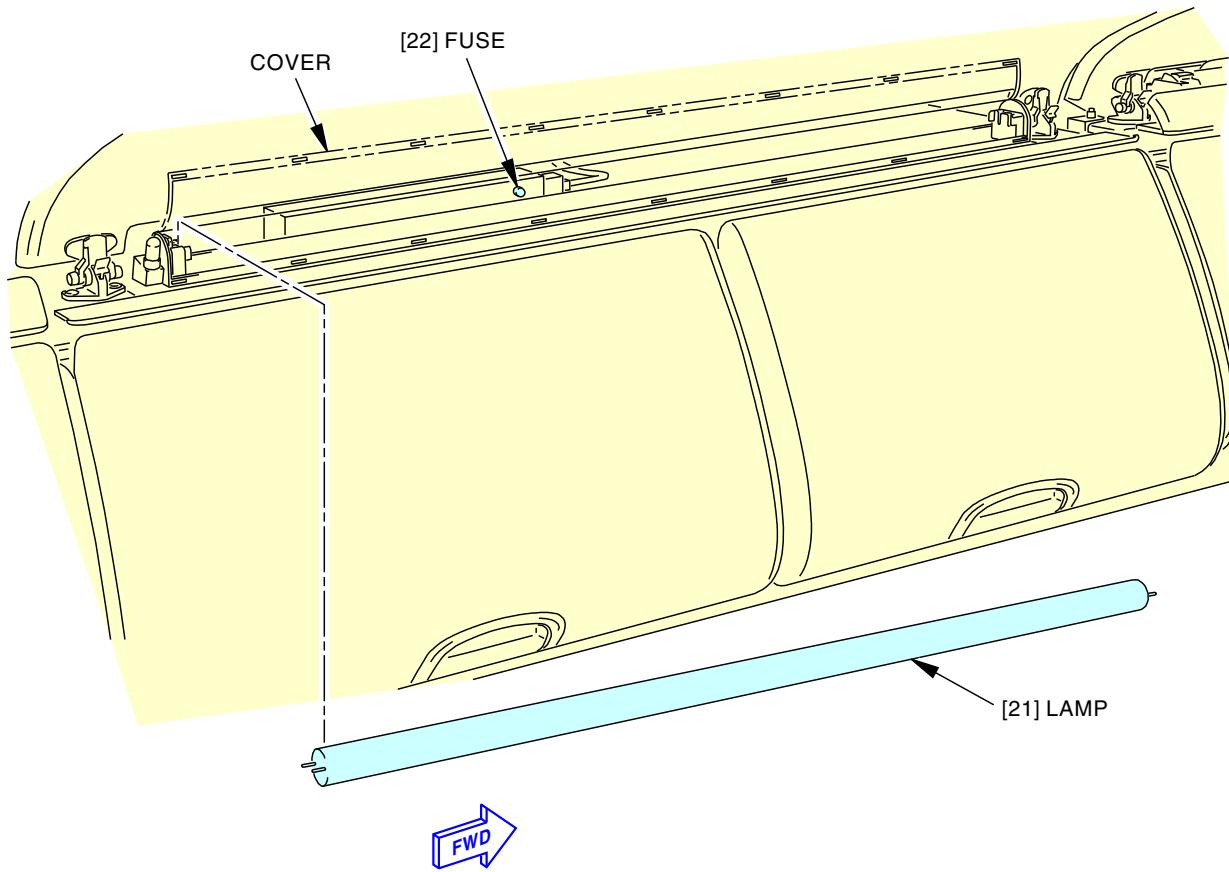
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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**NOTE:**

LIGHTSHIELD IS NOT SHOWN FOR CLARITY.

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**Ceiling Light, Bin - Lamp Replacement**  
**Figure 205/33-22-00-990-802 (Sheet 2 of 2)**

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

**33-22-00**

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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)**

**TASK 33-22-00-960-803**

**10. Ceiling Light, Night - Lamp Replacement**

(Figure 206)

**A. References**

<b>Reference</b>	<b>Title</b>
24-22-00-860-811	Supply Electrical Power (P/B 201)
WDM 33-22-11	Wiring Diagram Manual

**B. Location Zones**

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

**C. Ceiling Light, Night Lamp Replacement**

SUBTASK 33-22-00-860-007

- (1) At the forward attendant panel, set the switch for the ceiling lights to the off mode and attach the DO-NOT-OPERATE tag.

SUBTASK 33-22-00-960-003



**DO NOT TOUCH THE SOCKETS OR THE METAL ENDS OF THE LAMP.  
SHOCK CAN OCCUR WHEN YOU SUPPLY ELECTRICAL POWER TO THE  
LIGHT.**

- (2) Do these steps to replace the lamp (WDM 33-22-11):

- (a) Reach over the light shield for access to the lamp.

**NOTE:** Do not remove the light shield.

- (b) Replace the incandescent lamp [41] attached to the end of the bin light assembly.
  - (c) Remove the DO-NOT-OPERATE tag from the applicable ceiling light.

SUBTASK 33-22-00-860-008

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

SUBTASK 33-22-00-710-003

- (4) Do a test of the new lamp:

- (a) Set the switch for the ceiling lights to the night mode.

1) Make sure that the new lamp comes on.

- (b) Set the switch to the usual mode.

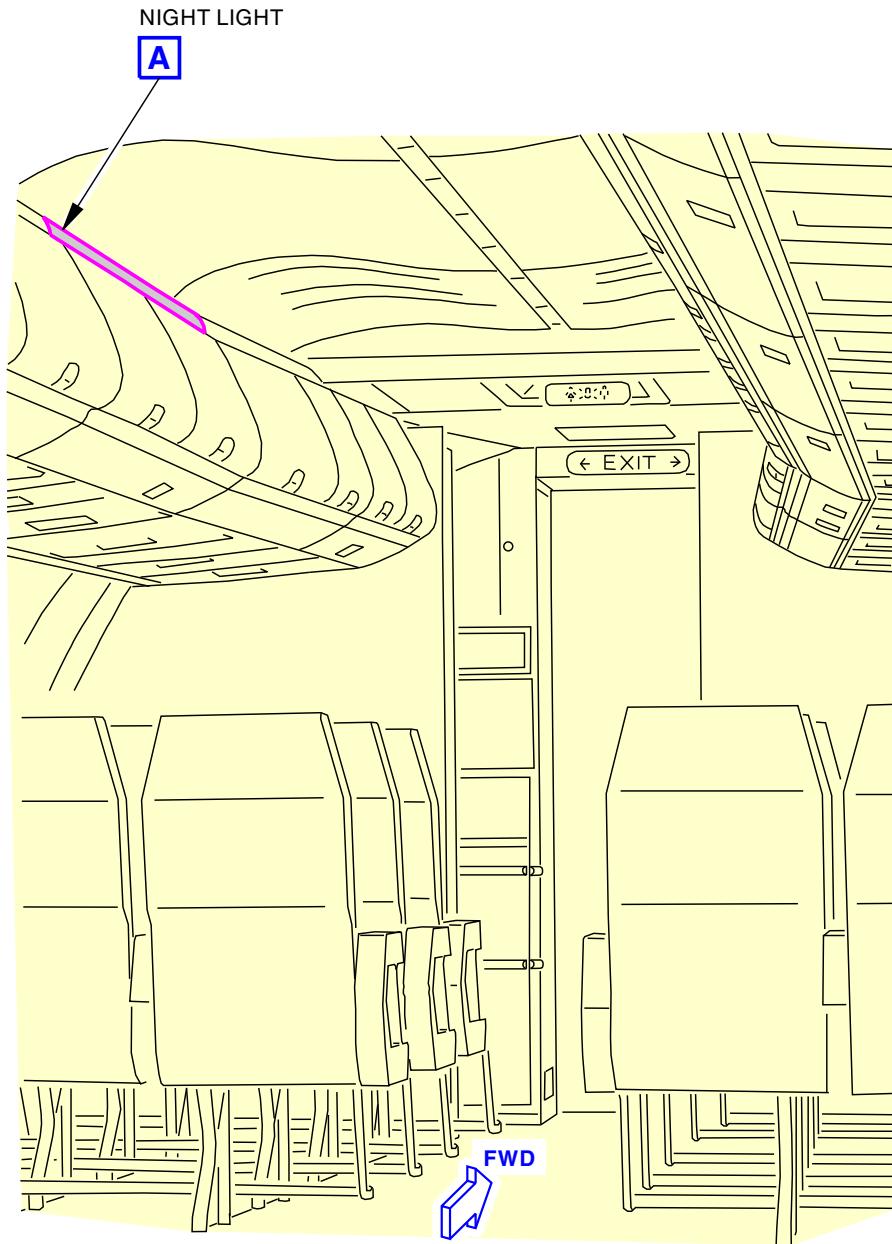
———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-22-00**



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PASSENGER COMPARTMENT

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Ceiling Light, Night - Lamp Replacement  
Figure 206/33-22-00-990-803 (Sheet 1 of 2)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

**33-22-00**

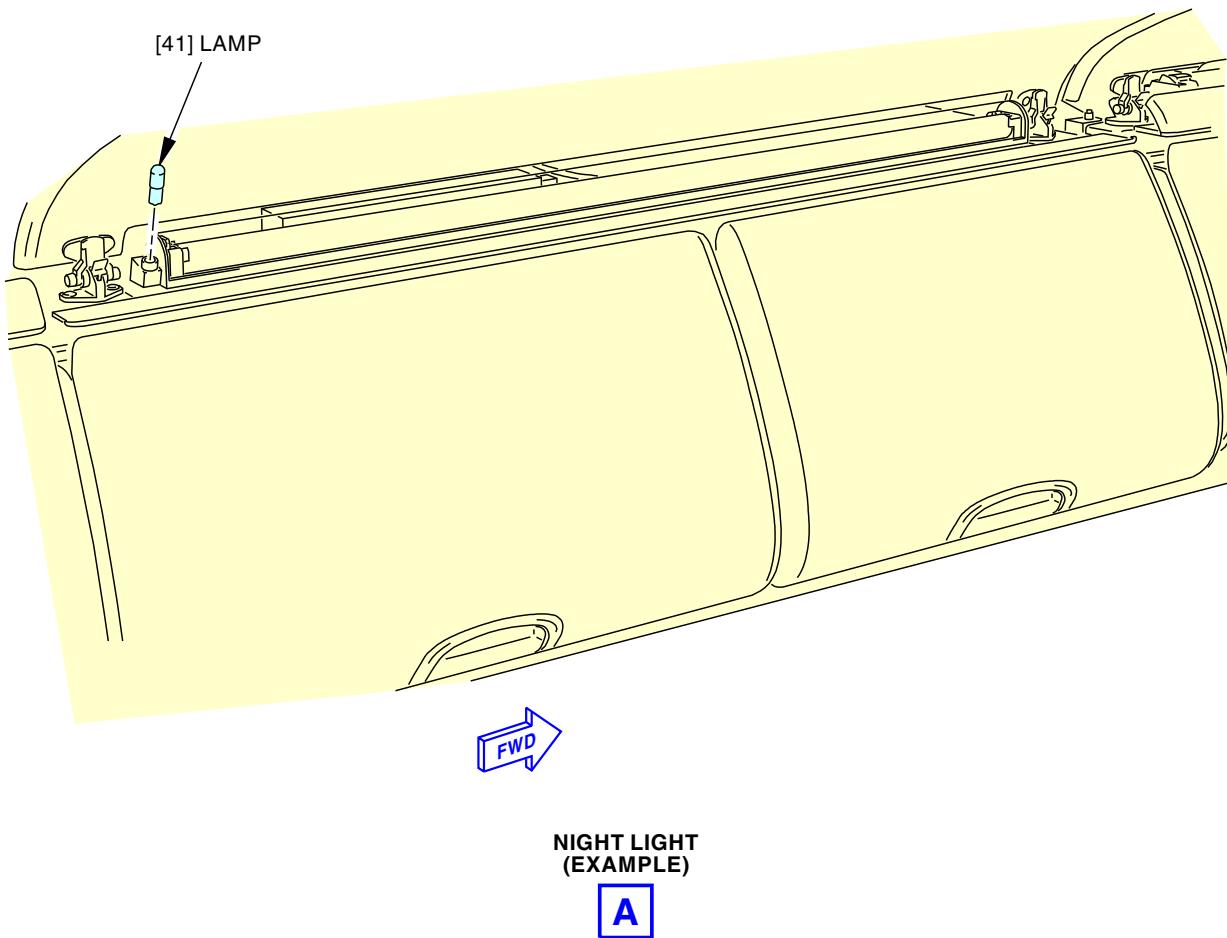
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**NOTE:**

LIGHTSHIELD IS NOT SHOWN FOR CLARITY.

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Ceiling Light, Night - Lamp Replacement  
Figure 206/33-22-00-990-803 (Sheet 2 of 2)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

**33-22-00**

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LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)

**TASK 33-22-00-960-804**

**11. Ceiling Light, Recessed - Light Assembly Replacement**

(Figure 207)

**A. References**

Reference	Title
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)
24-22-00-860-811	Supply Electrical Power (P/B 201)
25-21-71-000-804	Horseshoe Panel Removal (P/B 401)
25-21-71-400-804	Horseshoe Panel Installation (P/B 401)
WDM 33-22-11	Wiring Diagram Manual

**B. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
61	Light assembly	33-22-00-03D-140	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426
		33-22-00-04B-110	LOM 402, 404, 406, 407, 411, 412, 415, 416, 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. Ceiling Light Assembly Replacement**

SUBTASK 33-22-00-010-011

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

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 33-22-00-860-010



**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.

EFFECTIVITY  
LOM ALL

**33-22-00**



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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (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) Open the applicable circuit breaker for the ceiling light and install safety tags:  
(WDM 33-22-11)

**Power Distribution Panel Number 1, P91**

Row    Col    Number    Name

**LOM 402, 404, 406**

D	11	C00590	CEILING LT-R
D	12	C00591	CEILING LT-L

**LOM 407, 411, 412, 415, 416, 420, 422-426**

E	9	C00590	CEILING LT-R
E	10	C00591	CEILING LT-L

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

SUBTASK 33-22-00-040-002



**CAUTION**

DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

- (3) Before you touch the light assembly [61], do the procedure for devices that are sensitive to electrostatic discharge (TASK 20-40-12-000-802).

SUBTASK 33-22-00-020-007

- (4) Do these steps to remove the light assembly [61]:

NOTE: When the light assembly replaced, do not discard it. Refer to vendor instructions for possible repairs.

- (a) Lower the recessed ceiling panel.

NOTE: This panel is part of the horseshoe panel (Horseshoe Panel Removal, TASK 25-21-71-000-804).

- (b) Disconnect the electrical connector [64].

- (c) Remove the screws [63] and washers [62] (if installed) that hold the light assembly [61] in its position.

- (d) Remove the light assembly [61].

EFFECTIVITY  
LOM ALL

**33-22-00**



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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)**

SUBTASK 33-22-00-040-003



**CAUTION**

DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

- (5) Before you touch the light assembly [61], do the procedure for devices that are sensitive to electrostatic discharge (TASK 20-40-12-400-802).

SUBTASK 33-22-00-420-007

- (6) Do these steps to install the light assembly [61]:

- (a) Place the light assembly [61] in position.
- (b) Install the screws [63] and washers [62] (if removed).
- (c) Connect the electrical connector [64] to the new light assembly.
- (d) Install the lamp [1].
- (e) Close the recessed ceiling panel (Horseshoe Panel Installation, TASK 25-21-71-400-804).

SUBTASK 33-22-00-860-011



**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.

- (7) Remove the safety tags and close the applicable circuit breaker for the ceiling light:

**Power Distribution Panel Number 1, P91**

Row   Col   Number   Name

**LOM 402, 404, 406**

D	11	C00590	CEILING LT-R
D	12	C00591	CEILING LT-L

**LOM 407, 411, 412, 415, 416, 420, 422-426**

E	9	C00590	CEILING LT-R
E	10	C00591	CEILING LT-L

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

EFFECTIVITY  
**LOM ALL**

**33-22-00**



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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)**

SUBTASK 33-22-00-410-009

- (8) Close this access panel:

**Number      Name/Location**

117A      Electronic Equipment Access Door

SUBTASK 33-22-00-860-012

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

SUBTASK 33-22-00-710-004

- (10) Do a test of the new light assembly:

- (a) At the forward attendant panel, set the switch for the ceiling lights to the bright mode.  
    1) Make sure that the light comes on brightly.  
(b) Set the switch to the usual mode.

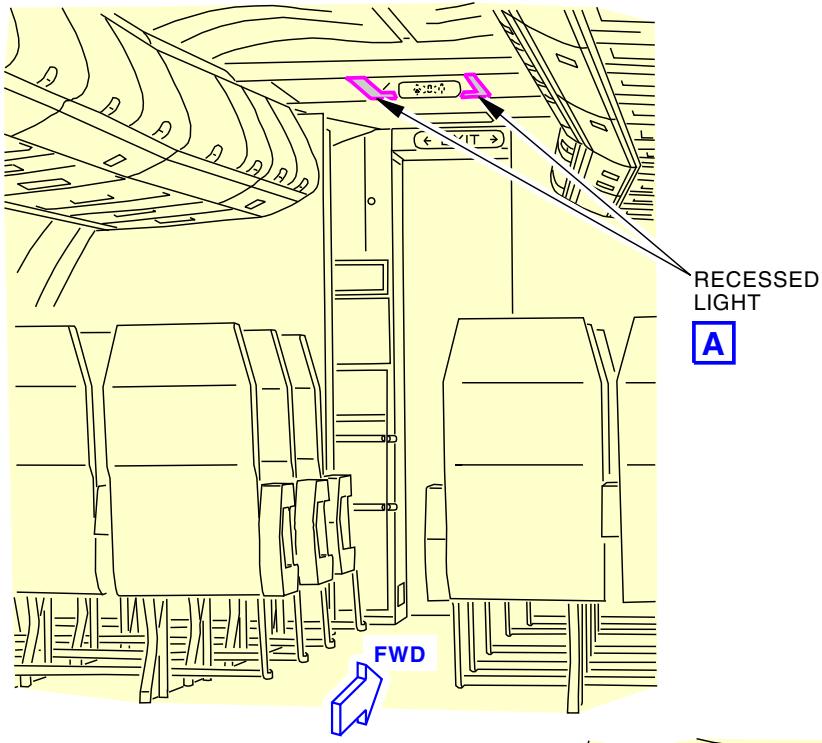
———— END OF TASK ————

EFFECTIVITY  
**LOM ALL**

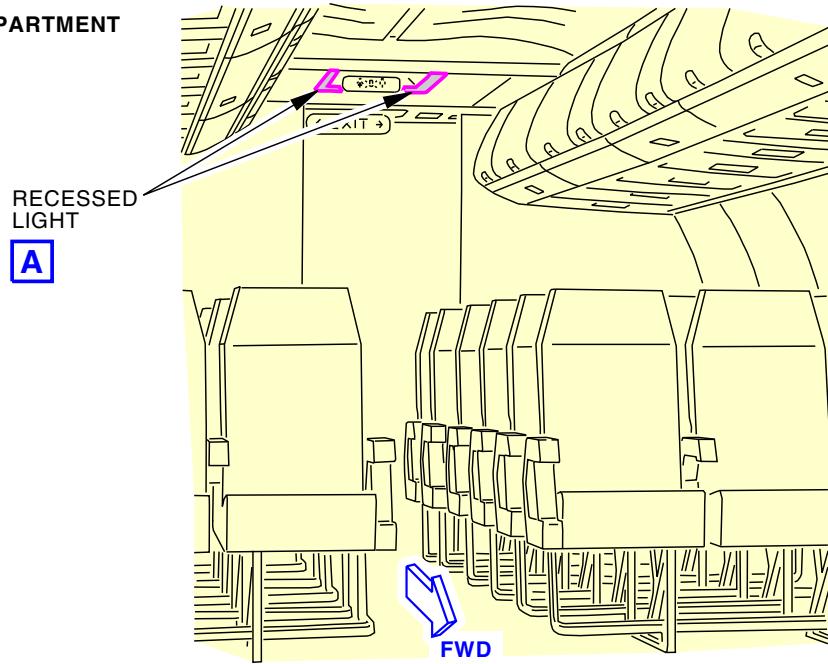
**33-22-00**



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AIRCRAFT MAINTENANCE MANUAL



PASSENGER COMPARTMENT



PASSENGER COMPARTMENT

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Ceiling Light, Recessed - Light Assembly Replacement  
Figure 207/33-22-00-990-804 (Sheet 1 of 2)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

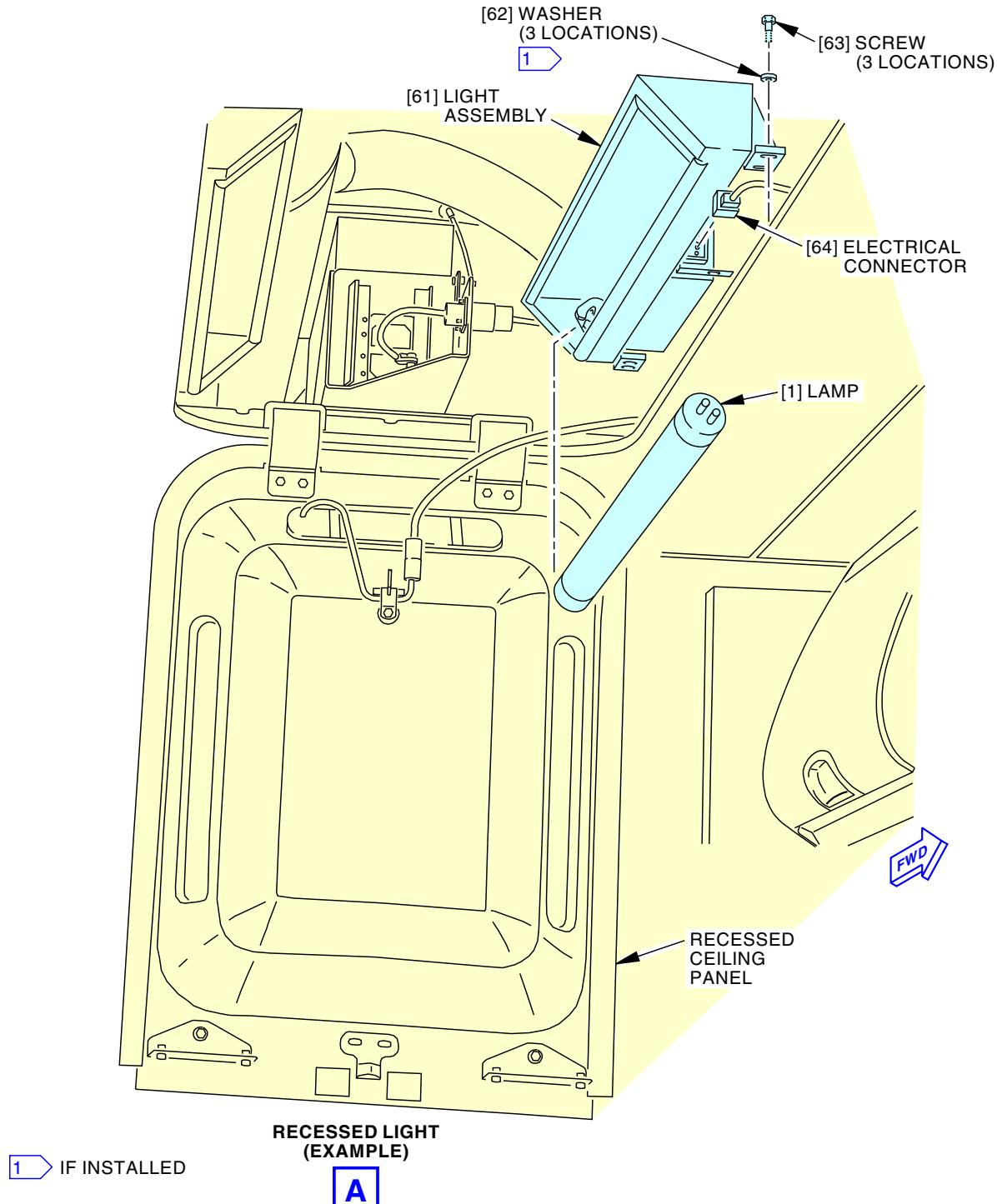
**33-22-00**

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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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F86467 S0006576021\_V3

**Ceiling Light, Recessed - Light Assembly Replacement**  
**Figure 207/33-22-00-990-804 (Sheet 2 of 2)**

EFFECTIVITY  
 LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
 422-426

**33-22-00**

D633A101-LOM

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**737-600/700/800/900**  
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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)**

**TASK 33-22-00-960-805**

**12. Ceiling Light, Bin - Light Assembly Replacement**

(Figure 208)

**A. References**

<b>Reference</b>	<b>Title</b>
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)
24-22-00-860-811	Supply Electrical Power (P/B 201)
WDM 33-22-11	Wiring Diagram Manual

**B. Expendables/Parts**

<b>AMM Item</b>	<b>Description</b>	<b>AIPC Reference</b>	<b>AIPC Effectivity</b>
81	Light assembly	33-22-00-60A-005	LOM 411
		33-22-00-60B-005	LOM 407, 420, 426
		33-22-00-60H-005	LOM 407, 420, 426
		33-22-00-62C-005	LOM 407, 420, 426
		33-22-00-64-025	LOM 404, 411, 412, 415, 416, 422-425
		33-22-00-64C-005	LOM 402, 404, 406, 411, 412, 415, 416, 422-425
		33-22-00-64D-005	LOM 402, 404, 406, 412, 415, 416, 422-425
		33-22-00-64E-005	LOM 402, 404, 406, 411, 412, 415, 416, 422-425
		33-22-00-65A-005	LOM 407, 420, 426
		33-22-00-65C-005	LOM 407, 420, 426
		33-22-00-66-005	LOM 402, 404, 406, 411, 412, 415, 416, 422-425
		33-22-00-66C-005	LOM 407, 420, 426
		33-22-00-67-010	LOM 402, 404, 406, 411, 412, 415
		33-22-00-67G-005	LOM 416, 422-425
		33-22-00-67H-005	LOM 416, 422-425
		33-22-00-70A-005	LOM 407, 420, 426
		33-22-00-70C-005	LOM 407, 420, 426
		33-22-00-71-010	LOM 402, 404, 406, 411, 412, 415
		33-22-00-71C-005	LOM 416, 422-425
		33-22-00-71D-005	LOM 416, 422-425
		33-22-00-80A-015	LOM 407
		33-22-00-80E-005	LOM 407, 420, 426
		33-22-00-80K-005	LOM 407, 420, 426

EFFECTIVITY  
LOM ALL

ECCN 9E991 BOEING PROPRIETARY - See title page for details

**33-22-00**

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LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)

(Continued)

AMM Item	Description	AIPC Reference	AIPC Effectivity
81 (cont.)		33-22-00-80Q-005	LOM 407, 420, 426
		33-22-00-80S-005	LOM 407, 420, 426
		33-22-00-80Y-005	LOM 420, 426
		33-22-00-80Z-005	LOM 420, 426
		33-22-00-83-020	LOM 402, 404, 406, 411, 412, 415, 416, 422-425
		33-22-00-83D-005	LOM 402, 404, 406, 411, 412, 415, 416, 422-425
		33-22-00-83E-010	LOM 402, 404, 406, 411, 412, 415, 416, 422-425
		33-22-00-84-020	LOM 402, 404, 406, 411, 412, 415, 416, 422-425
		33-22-00-84C-005	LOM 402, 404, 406, 411, 412, 415, 416, 422-425

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

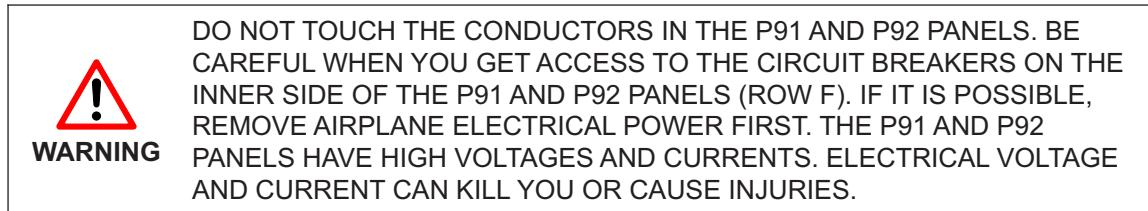
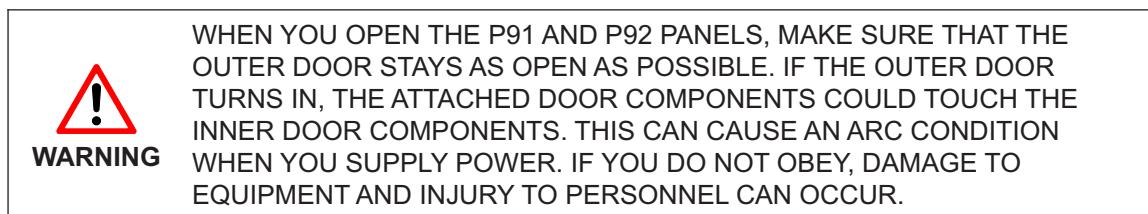
E. Ceiling Bin Light Assembly Replacement

SUBTASK 33-22-00-010-012

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

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 33-22-00-860-014



**33-22-00**



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LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)

(WARNING PRECEDES)



DO NOT REPLACE THE LIGHT ASSEMBLY UNTIL YOU REMOVE ELECTRICAL POWER FROM THE CIRCUIT. IF YOU DO NOT REMOVE ELECTRICAL POWER, YOU CAN CAUSE DAMAGE TO THE FUSE IN THE LIGHT ASSEMBLY.

- (2) Open the applicable circuit breaker for the ceiling light and install the safety tag:  
(WDM 33-22-11)

**Power Distribution Panel Number 1, P91**

Row   Col   Number   Name

**LOM 402, 404, 406**

D	11	C00590	CEILING LT-R
D	12	C00591	CEILING LT-L

**LOM 407, 411, 412, 415, 416, 420, 422-426**

E	9	C00590	CEILING LT-R
E	10	C00591	CEILING LT-L

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

SUBTASK 33-22-00-010-001

- (3) Open the applicable stowage bin doors for access to the screws below the light assembly.

SUBTASK 33-22-00-010-002

- (4) If a hinge prevents access to the screws, loosen the hinge from the top of the stowage bin:
- Do not loosen the hinge from the stowage bin door.
  - Reach over the light shield and remove the inboard bolt.
  - Reach behind the hinge and remove the outboard bolt.

SUBTASK 33-22-00-040-014



DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

- (5) Before you touch the light assembly [81], do the procedure for devices that are sensitive to electrostatic discharge (ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802).

SUBTASK 33-22-00-020-008

- (6) Do these steps to remove the light assembly [81]:

NOTE: When the light assembly replaced, do not discard it. Refer to vendor instructions for possible repairs.

- Remove the screws [84] below the light assembly.
- Reach over the light shield for access to the light assembly.
  - Do not remove the light shield.
- Disconnect the electrical connector [82].
- Remove the light assembly [81].

EFFECTIVITY  
LOM ALL

**33-22-00**



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LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)

SUBTASK 33-22-00-040-015



**CAUTION**

DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

- (7) Before you touch the light assembly [81], do the procedure for devices that are sensitive to electrostatic discharge (ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802).

SUBTASK 33-22-00-420-008

- (8) Do these steps to install the light assembly [81]:  
(a) Install the new light assembly [81].  
    1) Make sure that the lamp is installed (Ceiling Light, Bin - Lamp Replacement, TASK 33-22-00-960-802).  
(b) Connect the electrical connector [82] to the new light assembly.  
(c) Install the screws [84].

SUBTASK 33-22-00-410-001

- (9) If a hinge was loosened, install it:  
(a) Reach behind the hinge and install the outboard bolt.  
(b) Reach over the light shield and install the inboard bolt.

SUBTASK 33-22-00-410-002

- (10) Close the stowage bin doors.

SUBTASK 33-22-00-860-015



**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) Close the applicable circuit breaker for the ceiling light and remove the safety tag:

**Power Distribution Panel Number 1, P91**

Row   Col   Number   Name

**LOM 402, 404, 406**

D	11	C00590	CEILING LT-R
D	12	C00591	CEILING LT-L

EFFECTIVITY  
LOM ALL

**33-22-00**



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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>
------------	------------	---------------	-------------

**LOM 407, 411, 412, 415, 416, 420, 422-426**

E	9	C00590	CEILING LT-R
E	10	C00591	CEILING LT-L

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

SUBTASK 33-22-00-410-010

- (12) Close this access panel:

<u>Number</u>	<u>Name/Location</u>
---------------	----------------------

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

SUBTASK 33-22-00-860-016

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

SUBTASK 33-22-00-710-005

- (14) Do a test of the new light assembly:

- (a) At the forward attendant panel, set the switch for the ceiling lights to the bright mode.
  - 1) Make sure that the light comes on brightly.
- (b) Set the switch to the usual mode.

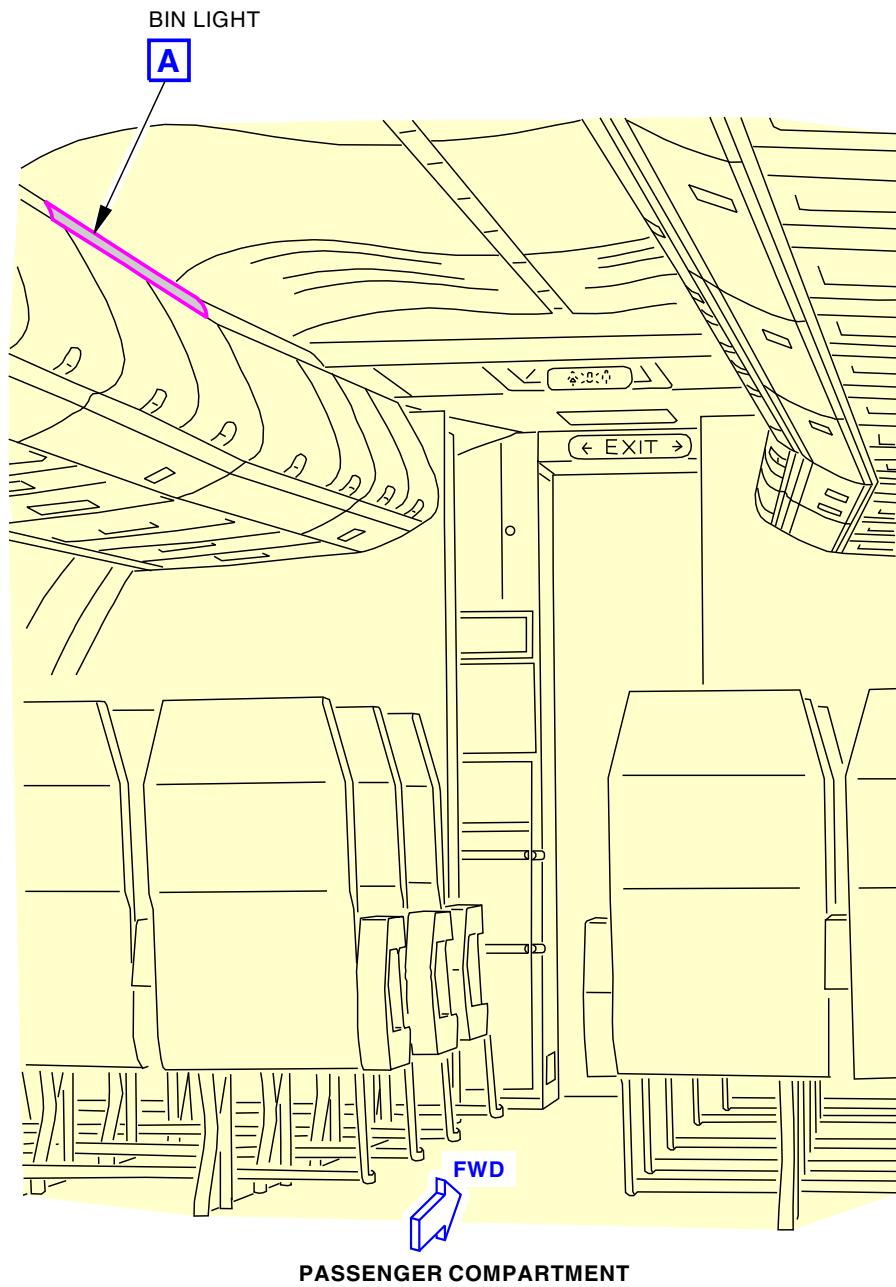
———— END OF TASK ————

— EFFECTIVITY —  
**LOM ALL**

**33-22-00**



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AIRCRAFT MAINTENANCE MANUAL



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Ceiling Light, Bin - Light Assembly Replacement  
Figure 208/33-22-00-990-805 (Sheet 1 of 2)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

**33-22-00**

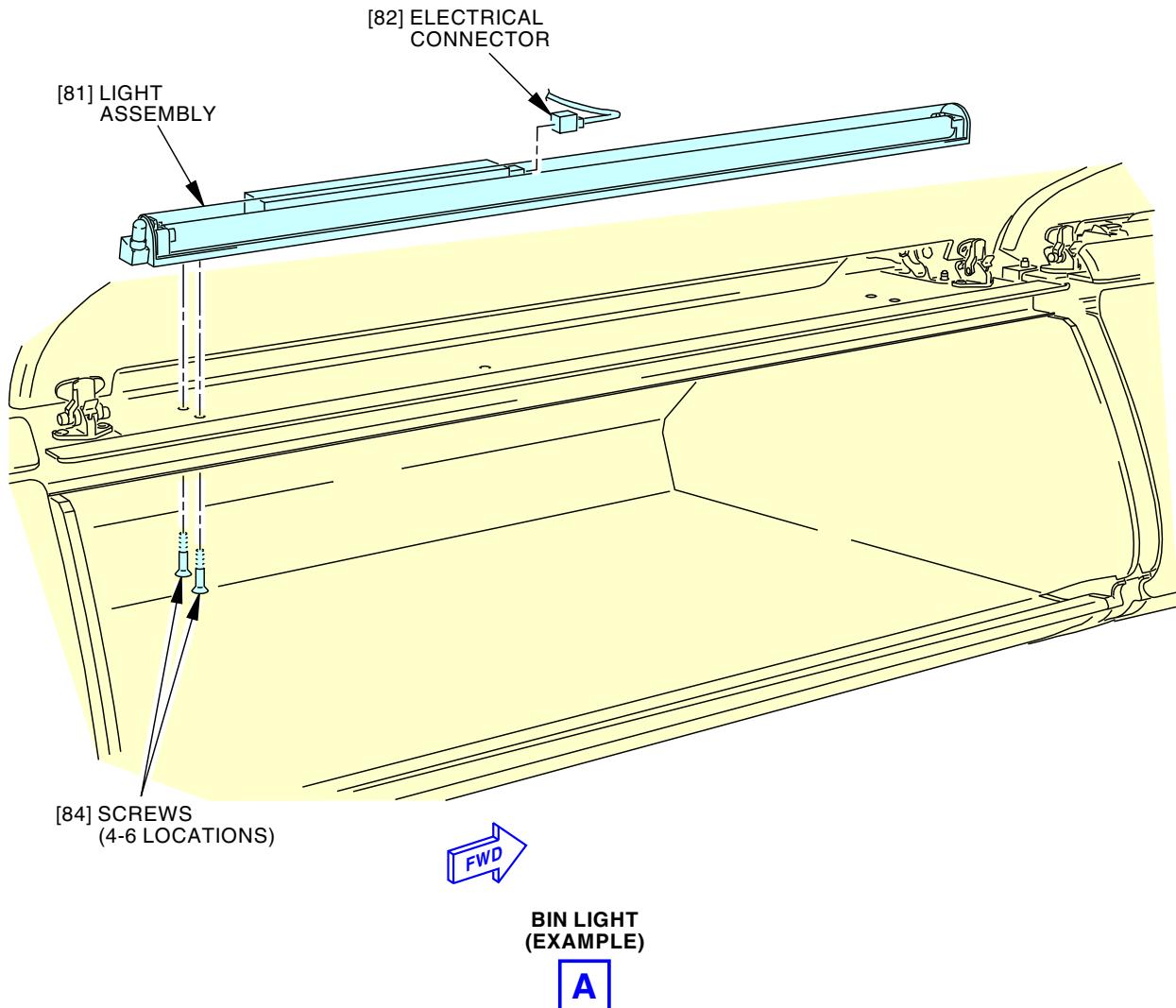
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AIRCRAFT MAINTENANCE MANUAL



NOTE:

LIGHTSHIELD AND STOWAGE BIN DOORS  
ARE NOT SHOWN FOR CLARITY.

F87211 S0006576024\_V2

Ceiling Light, Bin - Light Assembly Replacement  
Figure 208/33-22-00-990-805 (Sheet 2 of 2)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

**33-22-00**

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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AIRCRAFT MAINTENANCE MANUAL

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)

**TASK 33-22-00-960-806**

**13. Ceiling Light, Bin - Fuse Replacement**

(Figure 205)

**A. References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
WDM 33-22-11	Wiring Diagram Manual

**B. Location Zones**

Zone	Area
200	Upper Half of Fuselage

**C. Ceiling Light, Bin Fuse Replacement**

SUBTASK 33-22-00-860-018



**CAUTION** DO NOT REPLACE THE FUSE UNTIL YOU REMOVE ELECTRICAL POWER FROM THE CIRCUIT. IF YOU DO NOT REMOVE ELECTRICAL POWER, YOU CAN CAUSE DAMAGE TO THE FUSE IN THE LIGHT ASSEMBLY.

- (1) At the forward attendant panel, set the switch for the ceiling lights to the off mode and attach the safety tag.

SUBTASK 33-22-00-960-007



**WARNING** DO NOT TOUCH THE SOCKETS OR THE METAL ENDS OF THE LAMP. SHOCK CAN OCCUR WHEN YOU SUPPLY ELECTRICAL POWER TO THE LIGHT.

- (2) Do these steps to replace the fuse (WDM 33-22-11):
  - (a) Remove the lamp [21] (Ceiling Light, Bin - Lamp Replacement, TASK 33-22-00-960-802).
  - (b) Check and replace the fuse [22] if it is unserviceable.
  - (c) Install the lamp [21] (Ceiling Light, Bin - Lamp Replacement, TASK 33-22-00-960-802).

SUBTASK 33-22-00-860-019

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

SUBTASK 33-22-00-710-006

- (4) Do a test of the new fuse:
  - (a) Set the switch for the ceiling lights to the bright mode.
    - 1) Make sure that the light comes on brightly.
  - (b) Set the switch to the usual mode.

———— END OF TASK ———

EFFECTIVITY  
LOM ALL

**33-22-00**



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LOM 427-434, 437-447, 450-999

**TASK 33-22-00-960-807**

**14. Ceiling Light, Bin/Wash - LED Light Assembly Replacement**

(Figure 209)

**A. References**

Reference	Title
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)
24-22-00-860-811	Supply Electrical Power (P/B 201)
25-21-45 P/B 401 Config 1	CEILING PANEL - REMOVAL/INSTALLATION

**B. Location Zones**

Zone	Area
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage
211	Flight Compartment - Left

**C. Access Panels**

Number	Name/Location
117A	Electronic Equipment Access Door

**D. Ceiling LED Light Assembly Replacement**

SUBTASK 33-22-00-860-021

- (1) Make sure that electrical power is supplied to the airplane, do this task: Supply Electrical Power, TASK 24-22-00-860-811.

SUBTASK 33-22-00-860-022

- (2) Do these steps at the applicable attendant control panel:
  - (a) Make sure that the attendant control panel display is activated.
    - 1) To activate it, touch the opposite corners of the display sequentially within two seconds.
    - (b) If necessary, input the password to get access to the attendant control panel.
    - (c) On the attendant control panel display, touch the Lighting tab.
    - (d) Below the Passenger Seating Area, touch the OFF button.

SUBTASK 33-22-00-010-016

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

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 33-22-00-860-023



**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.

EFFECTIVITY  
LOM ALL

**33-22-00**



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LOM 427-434, 437-447, 450-999 (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.

- (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>
E	7	C01937	CEILING LIGHT AFT-L
E	8	C01938	CEILING LIGHT AFT-R
E	9	C00590	CEILING LT-R
E	10	C00591	CEILING LT-L

SUBTASK 33-22-00-010-003

- (5) Do these steps to get access to the ceiling bin/wash light assembly [101]:

- (a) If it is necessary to remove the valance [107], do these steps:
- 1) Open the applicable stowage bin doors for access to the screws [108] below the light assembly.
  - 2) Remove the screws [108].
  - 3) Remove the valance [107].
- NOTE: Some valances have the valance aisle light installed.
- (b) If it is necessary, remove the applicable ceiling panel  
(PAGEBLOCK 25-21-45/401 Config 1).

SUBTASK 33-22-00-040-004



**CAUTION**

DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

- (6) Before you touch the light assembly [101], do the procedure for devices that are sensitive to electrostatic discharge (TASK 20-40-12-000-802).

SUBTASK 33-22-00-020-001

- (7) Do these steps to remove the light assembly [101]:

- (a) Remove the screws [102] to the cable cover [103].
- (b) Disconnect the power electrical connector [104].
- (c) Disconnect the bin-light data connectors [105].
- (d) Disconnect the wash-light data connectors [109].
- (e) Remove the screws [106].
- (f) Remove the light assembly [101].

EFFECTIVITY  
LOM ALL

**33-22-00**



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AIRCRAFT MAINTENANCE MANUAL

LOM 427-434, 437-447, 450-999 (Continued)

SUBTASK 33-22-00-040-005



**CAUTION**

DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

- (8) Before you touch the light assembly [101], do the procedure for devices that are sensitive to electrostatic discharge (TASK 20-40-12-400-802).

SUBTASK 33-22-00-420-001

- (9) Do these steps to install the light assembly [101]:  
(a) Place the light assembly [101] in position.  
(b) Connect power electrical connectors [104].  
(c) Install and tighten the screws [106].  
(d) Install the cable covers [103] with the screws [102].  
    1) Tighten the screws [102].  
(e) Connect bin-light data connectors [105].  
(f) Connect the wash-light data connectors [109].

SUBTASK 33-22-00-410-003

- (10) If it is necessary, do these steps to install the valance [107]:  
(a) Place the valance [107] in position.  
(b) Install and tighten the screws [108].

SUBTASK 33-22-00-410-004

- (11) If it is necessary, install the applicable ceiling panel (PAGEBLOCK 25-21-45/401 Config 1).

SUBTASK 33-22-00-860-024



**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**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
E	7	C01937	CEILING LIGHT AFT-L
E	8	C01938	CEILING LIGHT AFT-R
E	9	C00590	CEILING LT-R

EFFECTIVITY  
LOM ALL

**33-22-00**



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

**LOM 427-434, 437-447, 450-999 (Continued)**

(Continued)

**Power Distribution Panel Number 1, P91**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
E	10	C00591	CEILING LT-L

SUBTASK 33-22-00-410-014

- (13) Close this access panel:

**Number      Name/Location**

117A      Electronic Equipment Access Door

SUBTASK 33-22-00-860-050

- (14) AIRPLANES WITH P4 SOFTWARE;

For loading data from the ACP to the LED lighting assemblies, do the steps that follow:

- Press the "ACP to LRUs" button.
  - The "ACP to LRUs" button should highlight.
- Wait for the data load to finish.
- Check to make sure that the Address, Scene, and Zone information are downloaded without errors.

SUBTASK 33-22-00-860-068

- (15) AIRPLANES WITH P5 SOFTWARE;

For Phase 2 Data Load, do the steps that follow:

- Push the "Phase 2 Data Load" button.

NOTE: When the user selects the Phase 2 Data Load button, the screen will show the LSAP selection table and control window. The current configuration is selected at default. The user can select another LSAP to load into the ACP's and the light LRU's.

- Select the LSAP in the Mass Storage Area.

- Push the "Start" button.

NOTE: Once the process has started, the result window will show the current progress of the file transfer. The status bar will show the approximate percent complete as the process executes.

SUBTASK 33-22-00-710-007

- (16) Do a test of the new light assembly:

- Make sure that the attendant control panel display is activated. To activate it, touch the opposite corners of the display sequentially within two seconds.
- If necessary, input the password to get access to the attendant control panel.
- Make sure the CAB/UTIL switch at the P5-13 panel is set to the ON position.
- On the attendant control panel display, touch the Lighting tab.
- Below the Passenger Seating Area, touch the White BRIGHT button.
  - Make sure that the light comes on brightly.
- Touch the White MEDIUM button.
  - Make sure that the light becomes medium.
- Touch the Boarding/Deplane button.

EFFECTIVITY  
LOM ALL

**33-22-00**



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

**LOM 427-434, 437-447, 450-999 (Continued)**

- 1) Make sure that the light color in the passenger compartment is equivalent to the light type shown below the General Lighting Layout on the attendant control panel display.

NOTE: The light can take at least 15 seconds to change.

- (h) Touch the OFF button.
  - 1) Make sure that the light goes off.
- (i) If it is not necessary, set the CAB/UTIL switch at the P5-13 panel to the OFF position.

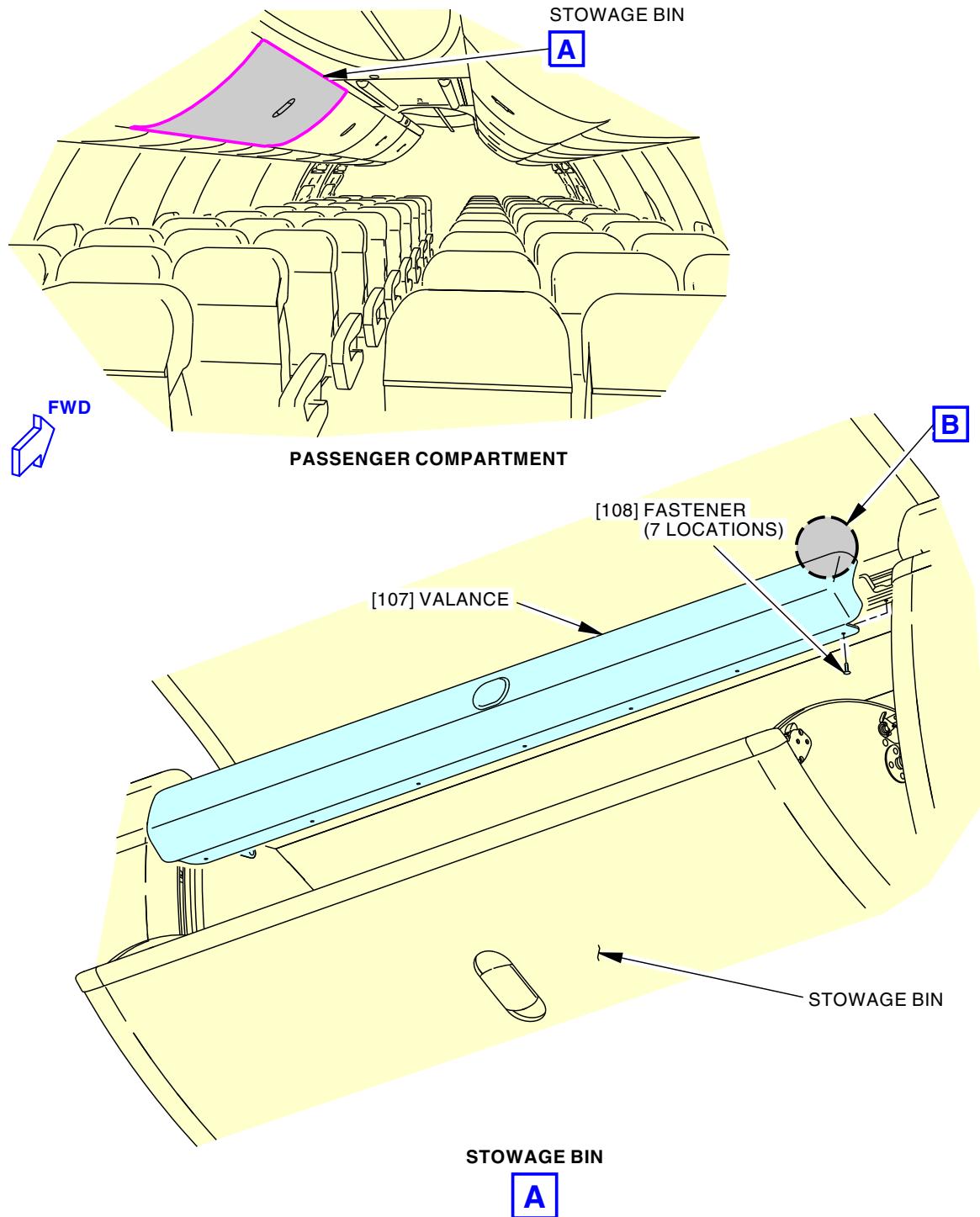
———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-22-00**



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AIRCRAFT MAINTENANCE MANUAL



1984436 S0000389297\_V2

Ceiling Light, Bin/Wash - LED Light Assembly Replacement  
Figure 209/33-22-00-990-806 (Sheet 1 of 2)

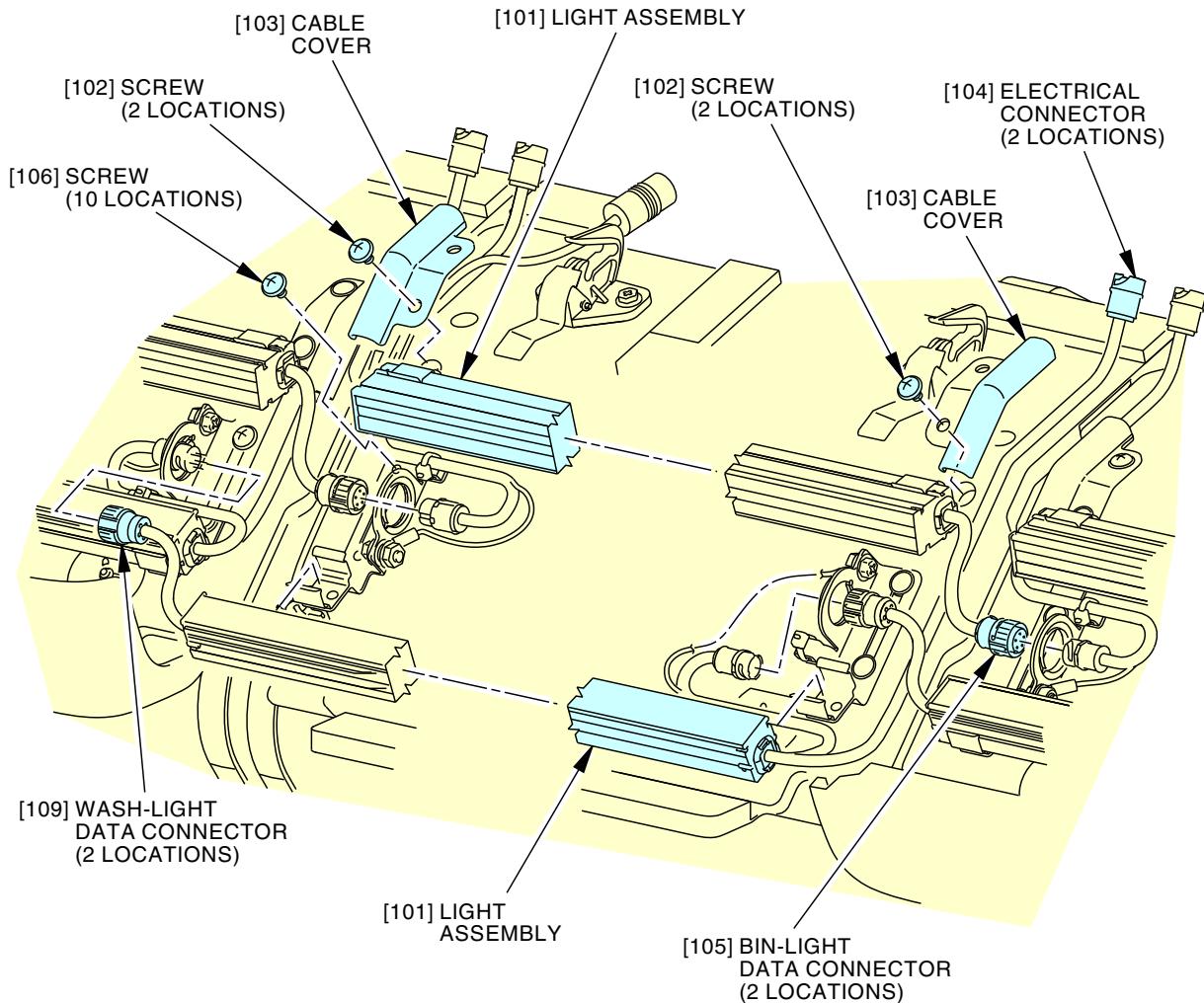
EFFECTIVITY  
LOM 427-434, 437-447, 450-999

**33-22-00**

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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(EXAMPLE)

**B**

1984454 S0000389298\_V3

**Ceiling Light, Bin/Wash - LED Light Assembly Replacement**  
**Figure 209/33-22-00-990-806 (Sheet 2 of 2)**

EFFECTIVITY  
**LOM 427-434, 437-447, 450-999**

**33-22-00**

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details



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AIRCRAFT MAINTENANCE MANUAL

LOM 427-434, 437-447, 450-999 (Continued)

**TASK 33-22-00-960-808**

**15. Ceiling Light, Direct - LED Light Assembly Replacement**

(Figure 210)

**A. References**

Reference	Title
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)
23-42-03-470-801	Attendant Control Panel (ACP) Software Loading (P/B 201)
24-22-00-860-811	Supply Electrical Power (P/B 201)
SWPM 20-10-12	WIRE HARNESS SUPPORTS

**B. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
125	Strap	25-21-71-53-065	LOM 427-434, 437-447, 450-999
		25-21-71-75-090	LOM 443, 444, 451, 452, 461-464
		25-21-71-79-102	LOM 466-999
		33-26-01-50-045	LOM 427-434, 437-447, 450-464

**C. Location Zones**

Zone	Area
118	Electrical and Electronics Compartment - Right
200	Upper Half of Fuselage
211	Flight Compartment - Left

**D. Access Panels**

Number	Name/Location
117A	Electronic Equipment Access Door

**E. Ceiling LED Light Assembly Replacement**

SUBTASK 33-22-00-860-028

- (1) Make sure that electrical power is supplied to the airplane, do this task: Supply Electrical Power, TASK 24-22-00-860-811.

SUBTASK 33-22-00-860-049

- (2) Do these steps at the applicable attendant control panel:
  - (a) Make sure that the attendant control panel display is activated, touch the opposite corners of the display sequentially within two seconds.
  - (b) On the attendant control panel display, touch the Lighting tab.
  - (c) For the light at the main cabin, touch the OFF button below the Passenger Seating Area.
  - (d) For the light at the forward entry area, touch the OFF button below the Forward Entry Area, Entry section.
  - (e) For the light at the aft entry area, touch the OFF button below the Aft Entry Area, Entry section.

EFFECTIVITY  
LOM ALL

**33-22-00**



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LOM 427-434, 437-447, 450-999 (Continued)

SUBTASK 33-22-00-860-029

- (3) Do these steps at the applicable attendant control panel:
- Make sure that the attendant control panel display is activated.
    - To activate it, touch the opposite corners of the display sequentially within two seconds.
  - If necessary, input the password to get access to the attendant control panel.
  - On the attendant control panel display, touch the Lighting tab.
  - Below the Passenger Seating Area, touch the OFF button.

SUBTASK 33-22-00-010-013

- (4) To get access to the P92 panel, open this access panel:

**Number      Name/Location**

117A      Electronic Equipment Access Door

SUBTASK 33-22-00-860-030



**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 2, P92**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
E	5	C01939	COVE LIGHT

SUBTASK 33-22-00-010-004

- (6) Open the applicable access panel to get to the direct ceiling light assembly [121].

SUBTASK 33-22-00-040-006



**CAUTION**

DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

- (7) Before you touch the light assembly [121], do the procedure for devices that are sensitive to electrostatic discharge (TASK 20-40-12-000-802).

SUBTASK 33-22-00-020-002

- (8) Do these steps to remove the direct ceiling light assembly [121]:

- Remove the lens [123].

EFFECTIVITY  
LOM ALL

**33-22-00**



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

**LOM 427-434, 437-447, 450-999 (Continued)**

- (b) Disconnect the electrical connectors [124].
- (c) Remove the straps [125] to release the light assembly wires from the clamp [126] or mounts [127] (SWPM 20-10-12).
  - 1) Discard the straps [125].
- (d) Remove the screws [122].
- (e) Remove the direct ceiling light assembly [121].

SUBTASK 33-22-00-040-007



**CAUTION**  
DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR  
DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE.  
ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

- (9) Before you touch the light assembly [121], do the procedure for devices that are sensitive to electrostatic discharge (TASK 20-40-12-400-802).

SUBTASK 33-22-00-420-002

- (10) Do these steps to install the direct ceiling light assembly [121]:
  - (a) Detach the lens [123] from the direct ceiling light assembly [121].
  - (b) Put the direct ceiling light assembly [121] in position.
  - (c) Install the direct ceiling light assembly [121] with the screws [122].
    - 1) Tighten the screws [122].
  - (d) Connect the electrical connectors [124].
  - (e) Attach the light assembly wires as follows (SWPM 20-10-12):
    - 1) If applicable, put the light assembly wires in the clamp [126].
    - 2) Install the new straps [125] to hold the clamp [126] ears together or to attach the light assembly wires to the mounts [127].
  - (f) Attach the lens [123] to the direct ceiling light assembly [121].
  - (g) Close the applicable access panel.

SUBTASK 33-22-00-860-031



**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

**33-22-00**



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AIRCRAFT MAINTENANCE MANUAL

LOM 427-434, 437-447, 450-999 (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.

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

**Power Distribution Panel Number 2, P92**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
E	5	C01939	COVE LIGHT

SUBTASK 33-22-00-410-011

- (12) Close this access panel:

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

SUBTASK 33-22-00-860-032

- (13) Load the software to the new light assembly. To do it, do this task: Attendant Control Panel (ACP) Software Loading, TASK 23-42-03-470-801.

SUBTASK 33-22-00-710-011

- (14) Do a test of the light assembly.

- (a) Make sure that the applicable attendant control panel display is activated, touch the opposite corners of the display sequentially within two seconds.
- (b) If it is necessary, input the password to get access to the attendant control panel.
- (c) Make sure that the CAB/UTIL switch, at the P5-13 panel, is set to the ON position.
- (d) On the attendant control panel display, touch the Lighting tab.
- (e) For the light in the main cabin, do these steps:

- 1) Below the Passenger Seating Area, touch the White BRIGHT button.

- a) Make sure that the light comes on brightly.

- 2) Touch the White MEDIUM button

- a) Make sure that the light becomes medium.

- 3) Touch the OFF button.

- a) Make sure that the light goes off.

- (f) For the light in the forward or aft entry area, do these steps:

- 1) Below the Entry Area, Entry section touch the White BRIGHT button.

- a) Make sure that the light comes on brightly.

NOTE: Threshold light operation is connected to the forward direct entry light.

The threshold light is only on when the forward direct entry light is set to white bright.

- 2) Touch the White MEDIUM button

- a) Make sure that the light becomes medium.

EFFECTIVITY  
LOM ALL

**33-22-00**



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**AIRCRAFT MAINTENANCE MANUAL**

**LOM 427-434, 437-447, 450-999 (Continued)**

- 3) Touch the OFF button.
    - a) Make sure that the light goes off.
- (g) If it is not necessary, set the CAB/UTIL switch, at the P5-13 panel, to the OFF position.

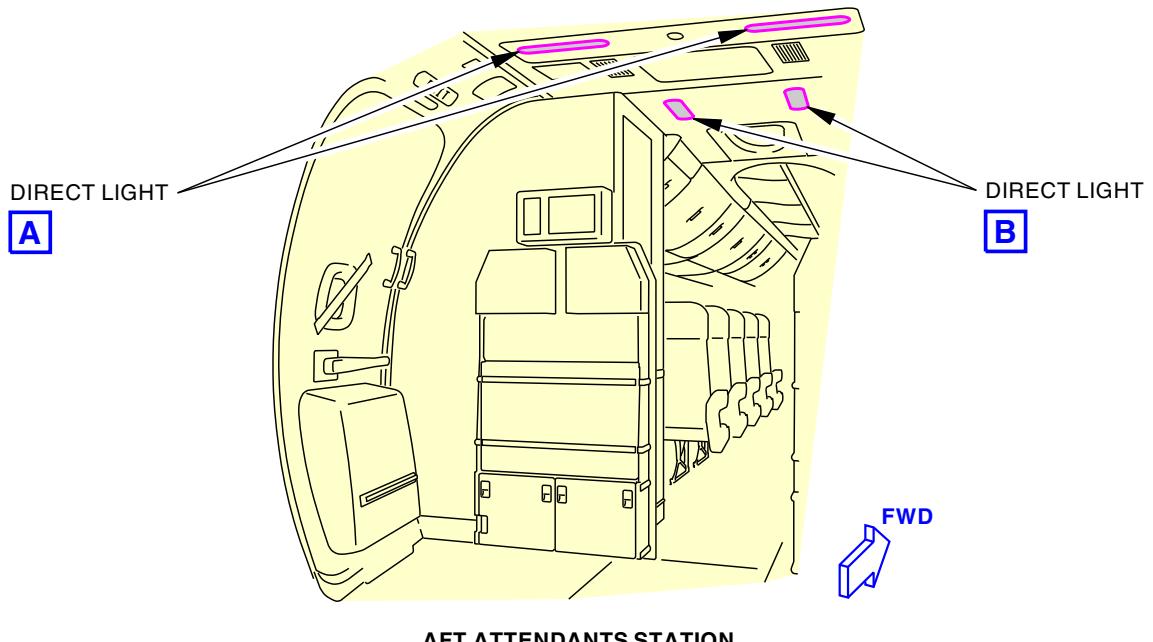
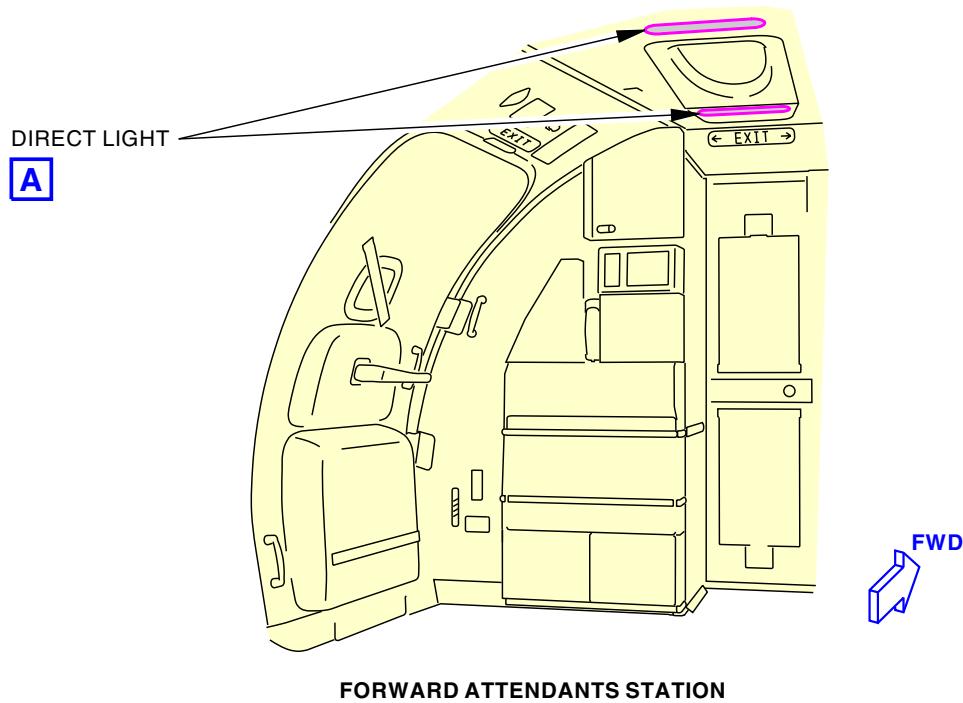
————— **END OF TASK** ————

————— EFFECTIVITY ————  
**LOM ALL**

**33-22-00**



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AIRCRAFT MAINTENANCE MANUAL



1984396 S0000389127\_V4

Ceiling Light, Direct - LED Light Assembly Replacement  
Figure 210/33-22-00-990-807 (Sheet 1 of 3)

EFFECTIVITY  
LOM 427-434, 437-447, 450-999

**33-22-00**

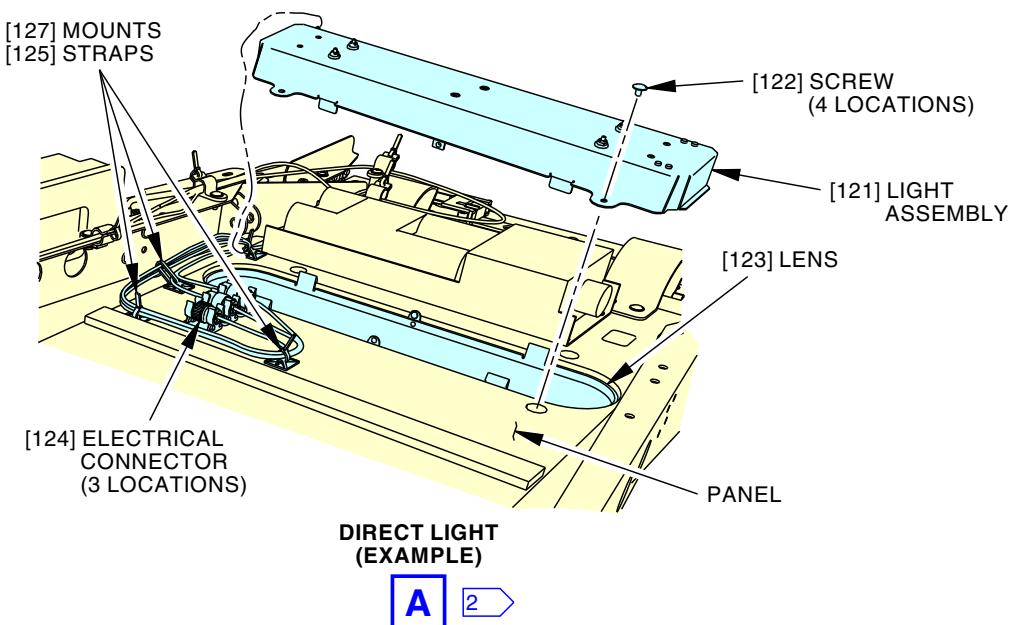
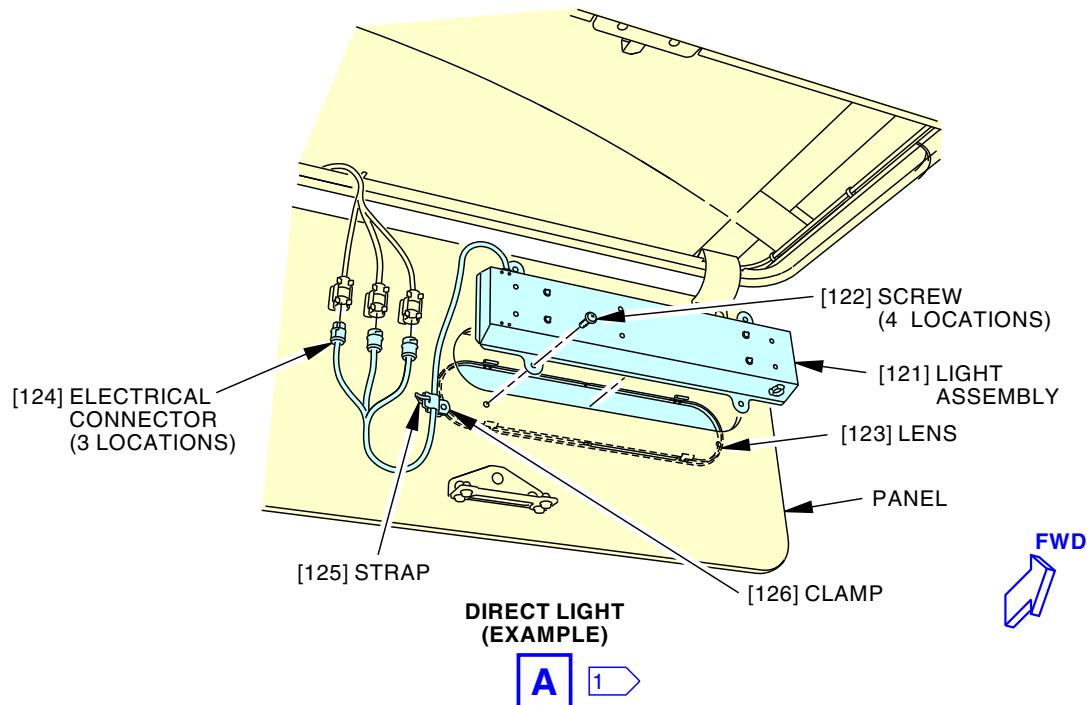
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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1 ELECTRICAL WIRE INSTALLATION WITH CLAMPS.

2 ELECTRICAL WIRE INSTALLATION WITH MOUNTS.

3067258 S0000828550\_V1

Ceiling Light, Direct - LED Light Assembly Replacement  
Figure 210/33-22-00-990-807 (Sheet 2 of 3)

EFFECTIVITY  
LOM 427-434, 437-447, 450-999

**33-22-00**

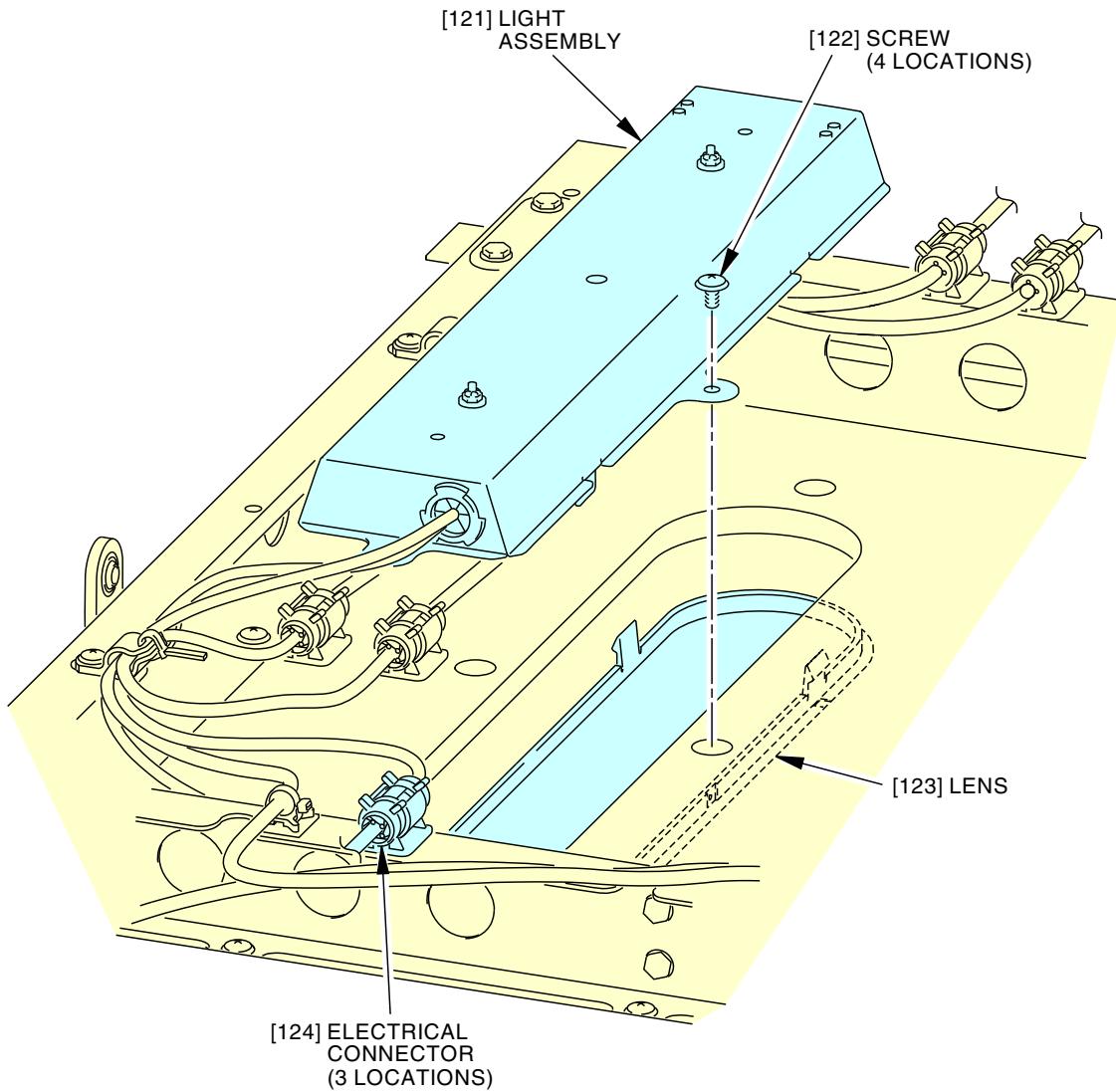
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AIRCRAFT MAINTENANCE MANUAL



DIRECT LIGHT ASSEMBLY  
(EXAMPLE)

B

1983207 S0000383137\_V2

Ceiling Light, Direct - LED Light Assembly Replacement  
Figure 210/33-22-00-990-807 (Sheet 3 of 3)

EFFECTIVITY  
LOM 427-434, 437-447, 450-999

**33-22-00**

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LOM 427-434, 437-447, 450-999 (Continued)

**TASK 33-22-00-960-809**

**16. Ceiling Light, Cove - LED Light Assembly Replacement**

(Figure 211)

**A. References**

Reference	Title
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)
23-42-03-470-801	Attendant Control Panel (ACP) Software Loading (P/B 201)
24-22-00-860-811	Supply Electrical Power (P/B 201)

**B. Location Zones**

Zone	Area
118	Electrical and Electronics Compartment - Right
200	Upper Half of Fuselage
211	Flight Compartment - Left

**C. Access Panels**

Number	Name/Location
117A	Electronic Equipment Access Door

**D. Ceiling LED Light Assembly Replacement**

SUBTASK 33-22-00-860-035

- (1) Make sure that electrical power is supplied to the airplane, do this task: Supply Electrical Power, TASK 24-22-00-860-811.

SUBTASK 33-22-00-860-036

- (2) Do these steps at the applicable attendant control panel:
  - (a) Make sure that the attendant control panel display is activated.
    - 1) To activate it, touch the opposite corners of the display sequentially within two seconds.
    - (b) If necessary, input the password to get access to the attendant control panel.
    - (c) On the attendant control panel display, touch the Lighting tab.
    - (d) Below the Passenger Seating Area, touch the OFF button.

SUBTASK 33-22-00-010-014

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

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 33-22-00-860-037



**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

**33-22-00**



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LOM 427-434, 437-447, 450-999 (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.

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

**Power Distribution Panel Number 2, P92**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
E	5	C01939	COVE LIGHT

SUBTASK 33-22-00-010-005

- (5) Do these steps to get access to the ceiling cove light assembly [143]:
- Open the applicable access panel to get to the cove light cover [141].
  - Remove the screws [142].
  - Remove the cove light cover [141].

SUBTASK 33-22-00-040-008



**CAUTION**

DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

- (6) Before you touch the light assembly [143], do the procedure for devices that are sensitive to electrostatic discharge (TASK 20-40-12-000-802).

SUBTASK 33-22-00-020-003

- (7) Do these steps to remove the ceiling cove light assembly [143]:

NOTE: There are two ceiling cove light assemblies under the cove light cover. Each ceiling cove light assembly contains two LED light strips. Both LED light strips need to be removed at the same time.

- Disconnect the electrical connectors [144].
- Remove the screws [145].
- Remove the ceiling cove light assembly [143].

SUBTASK 33-22-00-040-009



**CAUTION**

DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

- (8) Before you touch the light assembly [143], do the procedure for devices that are sensitive to electrostatic discharge (TASK 20-40-12-400-802).

SUBTASK 33-22-00-420-003

- (9) Do these steps to install the ceiling cove light assembly [143]:

- Place the ceiling cove light assembly [143] in its location on the panel.

EFFECTIVITY  
LOM ALL

**33-22-00**



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LOM 427-434, 437-447, 450-999 (Continued)

- (b) Install the screws [145].
- (c) Tighten the screws [145].
- (d) Connect the electrical connectors [144].
- (e) Install the cove light cover [141] with the screws [142].
  - 1) Tighten the screws [142].
- (f) Close the access panel.

SUBTASK 33-22-00-860-038



**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.

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

**Power Distribution Panel Number 2, P92**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
E	5	C01939	COVE LIGHT

SUBTASK 33-22-00-410-012

- (11) Close this access panel:

Number      Name/Location

117A            Electronic Equipment Access Door

SUBTASK 33-22-00-860-039

- (12) Load the software to the new light assembly. To do it, do this task: Attendant Control Panel (ACP) Software Loading, TASK 23-42-03-470-801.

SUBTASK 33-22-00-710-009

- (13) Do a test of the new light assembly:

- (a) Make sure that the attendant control panel display is activated. To activate it, touch the opposite corners of the display sequentially within two seconds.
- (b) If necessary, input the password to get access to the attendant control panel.
- (c) Make sure the CAB/UTIL switch at the P5-13 panel is set to the ON position.
- (d) On the attendant control panel display, touch the Lighting tab.
- (e) Below the Passenger Seating Area, touch the White BRIGHT button.
  - 1) Make sure that the light comes on brightly.
- (f) Touch the White MEDIUM button.

EFFECTIVITY  
LOM ALL

**33-22-00**



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

**LOM 427-434, 437-447, 450-999 (Continued)**

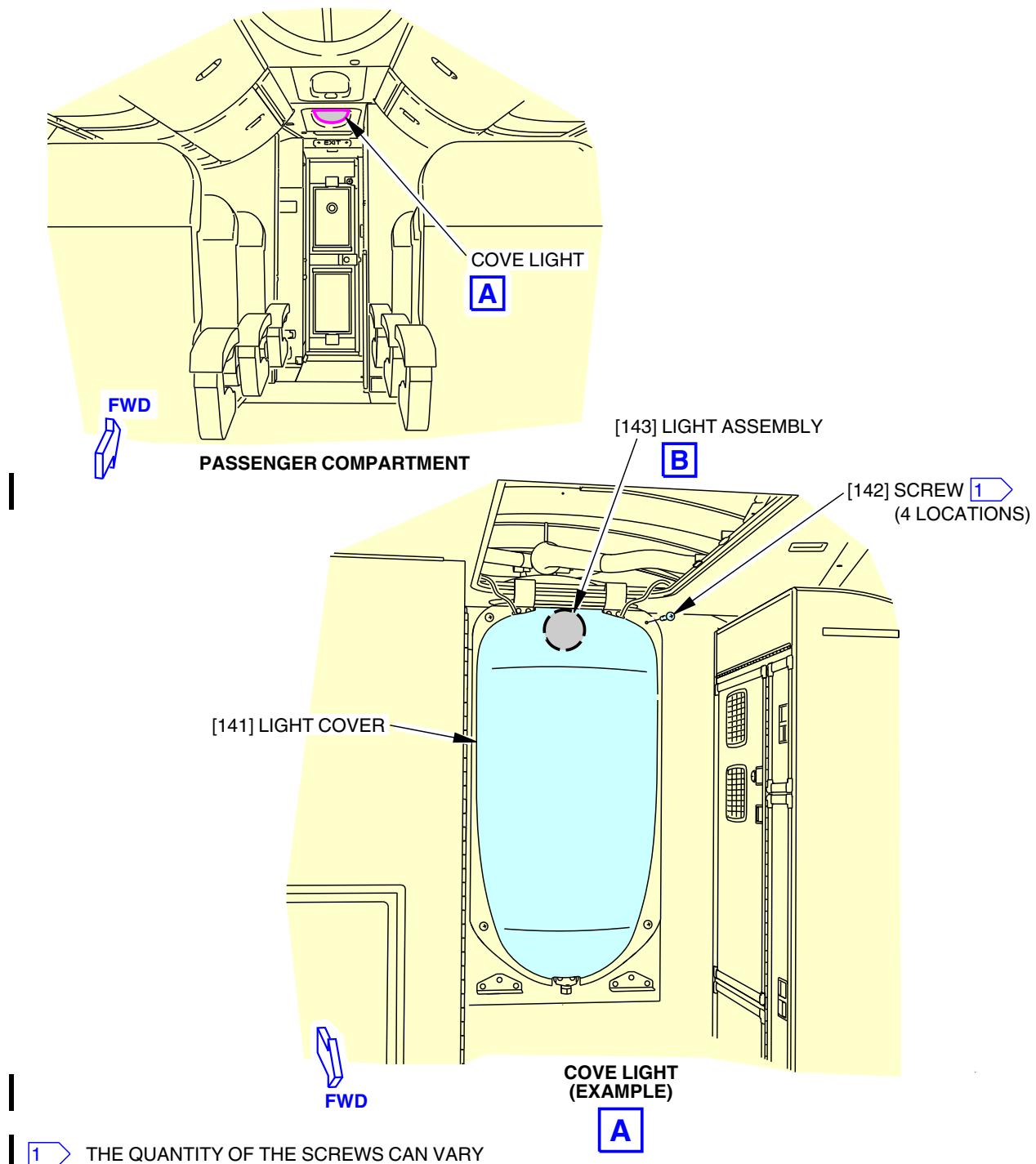
- 1) Make sure that the light becomes medium.
- (g) Touch the Boarding/Deplane button.
  - 1) Make sure that the light color in the passenger compartment is equivalent to the light type shown below the General Lighting Layout on the attendant control panel display.

NOTE: The light can take at least 15 seconds to change.
- (h) Touch the OFF button.
  - 1) Make sure that the light goes off.
- (i) If it is not necessary, set the CAB/UTIL switch at the P5-13 panel to the OFF position.

———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-22-00**



**1** THE QUANTITY OF THE SCREWS CAN VARY  
DEPENDING ON THE CONFIGURATION OF THE  
COVE LIGHT INSTALLED.

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### Ceiling Light, Cove - LED Light Assembly Replacement Figure 211/33-22-00-990-808 (Sheet 1 of 2)

EFFECTIVITY  
LOM 427-434, 437-447, 450-999

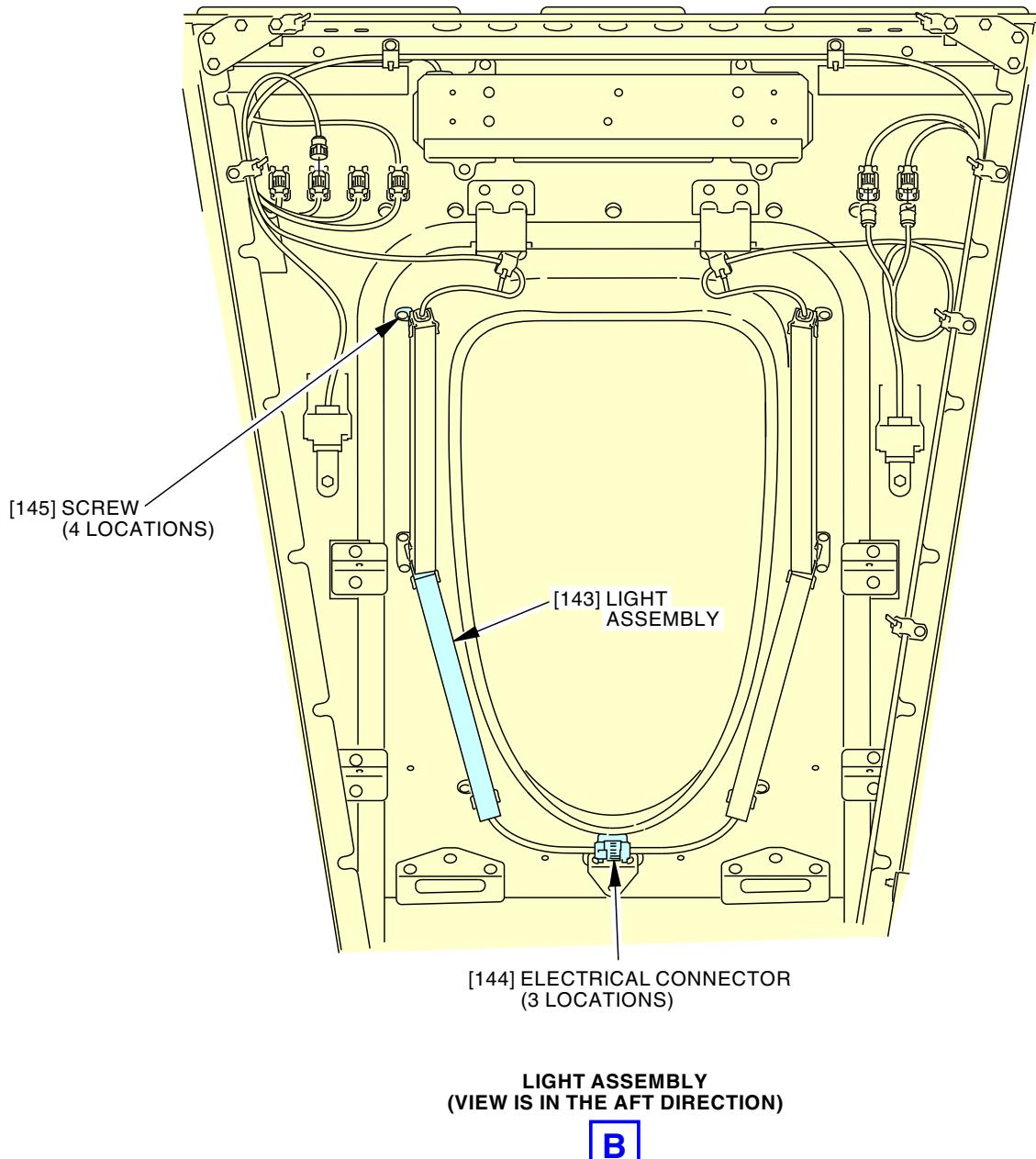
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ECCN 9E991 BOEING PROPRIETARY - See title page for details



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AIRCRAFT MAINTENANCE MANUAL



1983193 S0000383133\_V2

Ceiling Light, Cove - LED Light Assembly Replacement  
Figure 211/33-22-00-990-808 (Sheet 2 of 2)

EFFECTIVITY  
LOM 427-434, 437-447, 450-999

**33-22-00**

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LOM 427-434, 437-447, 450-999 (Continued)

**TASK 33-22-00-960-810**

**17. Ceiling Light, Center Overhead Stowage - LED Light Assembly Replacement**

(Figure 212 or Figure 213)

**A. References**

<b>Reference</b>	<b>Title</b>
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)
23-42-03-470-801	Attendant Control Panel (ACP) Software Loading (P/B 201)
24-22-00-860-811	Supply Electrical Power (P/B 201)

**B. Tools/Equipment**

<b>Reference</b>	<b>Description</b>
STD-13607	Wrench - Allen, 1/16 inch

**C. Location Zones**

<b>Zone</b>	<b>Area</b>
117	Electrical and Electronics Compartment - Left
200	Upper Half of Fuselage
211	Flight Compartment - Left

**D. Access Panels**

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

**E. Ceiling LED Light Assembly Replacement**

SUBTASK 33-22-00-860-042

- (1) Make sure that electrical power is supplied to the airplane, do this task: Supply Electrical Power, TASK 24-22-00-860-811.

SUBTASK 33-22-00-860-043

- (2) Do these steps at the applicable attendant control panel:
  - (a) Make sure that the attendant control panel display is activated.
    - 1) To activate it, touch the opposite corners of the display sequentially within two seconds.
    - (b) If necessary, input the password to get access to the attendant control panel.
    - (c) On the attendant control panel display, touch the Lighting tab.
    - (d) Below the Passenger Seating Area, touch the OFF button.

SUBTASK 33-22-00-010-015

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

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

EFFECTIVITY  
LOM ALL

**33-22-00**



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LOM 427-434, 437-447, 450-999 (Continued)

SUBTASK 33-22-00-860-044



**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>
E	7	C01937	CEILING LIGHT AFT-L
E	8	C01938	CEILING LIGHT AFT-R
E	9	C00590	CEILING LT-R
E	10	C00591	CEILING LT-L

**LOM 427-434, 437-447, 450-461, 465**

SUBTASK 33-22-00-010-006

- (5) Do these steps to get access to the ceiling Center Overhead Stowage (COS) light assembly [161]:
- Use a allen wrench, STD-13607, to disengage the end cap [164] snap-on clip from the baseplate and slide the end cap [164] out from the baseplate.
  - Slide the shroud [163] out from the baseplate.

NOTE: The shroud slides off easier with the access panel lowered.

SUBTASK 33-22-00-040-010



**CAUTION**

DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

- (6) Before you touch the light assembly [161], do the procedure for devices that are sensitive to electrostatic discharge (TASK 20-40-12-000-802).

SUBTASK 33-22-00-020-006

- (7) Do these steps to remove the ceiling COS light assembly [161]:
- Disconnect the connectors [162].
  - Remove the nut [165] and washer [166].
  - Remove the screws [168] and retainer clips [167] at each end of the baseplate.

EFFECTIVITY  
LOM ALL

**33-22-00**



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

**LOM 427-434, 437-447, 450-461, 465 (Continued)**

- 1) Do not remove or loosen the screw at the center retainer clip.

NOTE: The center retainer clip keeps the light assembly in place.

- (d) Hold the light assembly [161] and loosen the screw [168] from the center retainer clip [167].
- (e) Remove the light assembly [161].

SUBTASK 33-22-00-040-011



**CAUTION**

DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR  
DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE.  
ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

- (8) Before you touch the light assembly [161], do the procedure for devices that are sensitive to electrostatic discharge (TASK 20-40-12-400-802).

SUBTASK 33-22-00-420-006

- (9) Do these steps to install the ceiling COS light assembly [161]:

- (a) Attach the light assembly [161] to the center retainer clip [167].
- (b) Tighten the screw [168] to the center retainer clip [167].
- (c) Install the retainer clips [167] with the screws [168].
- (d) Tighten the screws [168].
- (e) Install the ground wire of the ceiling COS light assembly [161] on the ground stud with the washer [166] and nut [165].
  - 1) Tighten the nut [165].
- (f) Connect the electrical connectors [162] from each end of the light assembly [161].
- (g) Slide the shroud [163] into the baseplate.
- (h) Slide the end cap [164] into the baseplate.

**LOM 462-464, 466-999**

SUBTASK 33-22-00-010-010

- (10) Do these steps to get access to the ceiling COS light assembly [161]:

- (a) Open the COS box door.
- (b) Remove the screws [169], screws [170], and washers [173] at the front, aft, mid and 2 uppers of the COS box side panel.  
NOTE: Side panel will drop on outboard stow bin and lanyard.
- (c) Close the COS box door.
- (d) Remove the lanyards [171] and side panel.

SUBTASK 33-22-00-040-012



**CAUTION**

DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR  
DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE.  
ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

- (11) Before you touch the light assembly [161], do the procedure for devices that are sensitive to electrostatic discharge (TASK 20-40-12-000-802).

EFFECTIVITY  
**LOM ALL**

**33-22-00**



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LOM 462-464, 466-999 (Continued)

SUBTASK 33-22-00-020-005

- (12) Do these steps to remove the ceiling COS light assembly [161]:
- Disconnect the connectors [162].
  - Remove the screw [168] for the ground wire.
  - Hold the light assembly [161] and loosen the screws [172] from the light box.
  - Remove the light assembly [161].

SUBTASK 33-22-00-040-013



**CAUTION**  
DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR  
DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE.  
ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

- (13) Before you touch the light assembly [161], do the procedure for devices that are sensitive to electrostatic discharge (TASK 20-40-12-400-802).

SUBTASK 33-22-00-420-005

- (14) Do these steps to install the ceiling COS light assembly [161]:
- Attach the light assembly [161] to the light box.
  - Tighten the screws [172] to the light box.
  - Install the ground wire of the ceiling COS light assembly [161] on the light box with the screw [168].
  - Connect the electrical connectors [162] from each end of the light assembly [161].

SUBTASK 33-22-00-410-008

- (15) Do these steps to install the COS box side panel:
- Install the lanyards [171] and side panel to the light box.
  - Open the COS box door.
  - Slide the side panel into the stow bin.
  - Install the screws [169], screws [170], and washers [173] at the front, aft, mid and 2 uppers of the COS box side panel.
  - Close the COS box door.

LOM 427-434, 437-447, 450-999

SUBTASK 33-22-00-860-045



**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

**33-22-00**



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LOM 427-434, 437-447, 450-999 (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.

- (16) 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>
E	7	C01937	CEILING LIGHT AFT-L
E	8	C01938	CEILING LIGHT AFT-R
E	9	C00590	CEILING LT-R
E	10	C00591	CEILING LT-L

SUBTASK 33-22-00-410-013

- (17) Close this access panel:

Number      Name/Location

117A            Electronic Equipment Access Door

SUBTASK 33-22-00-860-046

- (18) Load the software to the new light assembly. To do it, do this task: Attendant Control Panel (ACP) Software Loading, TASK 23-42-03-470-801.

SUBTASK 33-22-00-710-010

- (19) Do a test of the new light assembly:

- (a) Make sure that the attendant control panel display is activated. To activate it, touch the opposite corners of the display sequentially within two seconds.
- (b) If necessary, input the password to get access to the attendant control panel.
- (c) Make sure the CAB/UTIL switch at the P5-13 panel is set to the ON position.
- (d) On the attendant control panel display, touch the Lighting tab.
- (e) Below the Passenger Seating Area, touch the White BRIGHT button.
  - 1) Make sure that the light comes on brightly.
- (f) Touch the White MEDIUM button.
  - 1) Make sure that the light becomes medium.
- (g) Touch the Boarding/Deplane button.
  - 1) Make sure that the light color in the passenger compartment is equivalent to the light type shown below the General Lighting Layout on the attendant control panel display.

NOTE: The light can take at least 15 seconds to change.

- (h) Touch the OFF button.
  - 1) Make sure that the light goes off.
- (i) If it is not necessary, set the CAB/UTIL switch at the P5-13 panel to the OFF position.

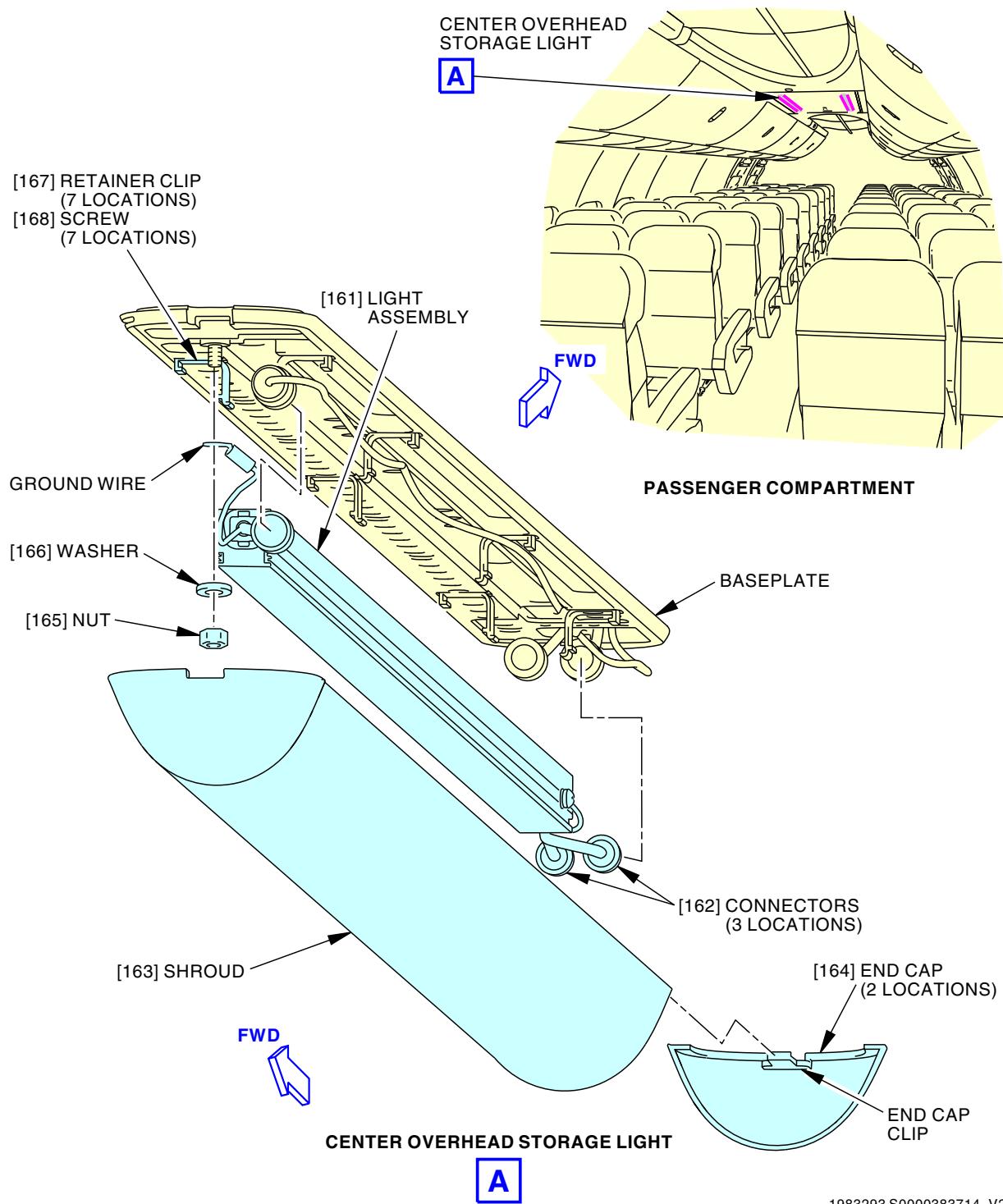
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EFFECTIVITY  
LOM ALL

**33-22-00**



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Ceiling Light, Center Overhead Stowage - LED Light Assembly Replacement  
Figure 212/33-22-00-990-809

EFFECTIVITY  
LOM 427-434, 437-447, 450-461, 465

**33-22-00**

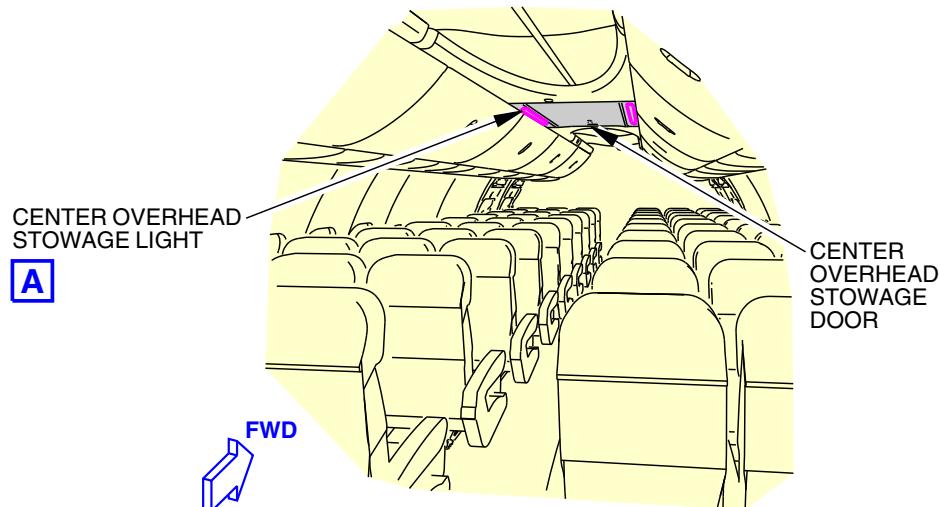
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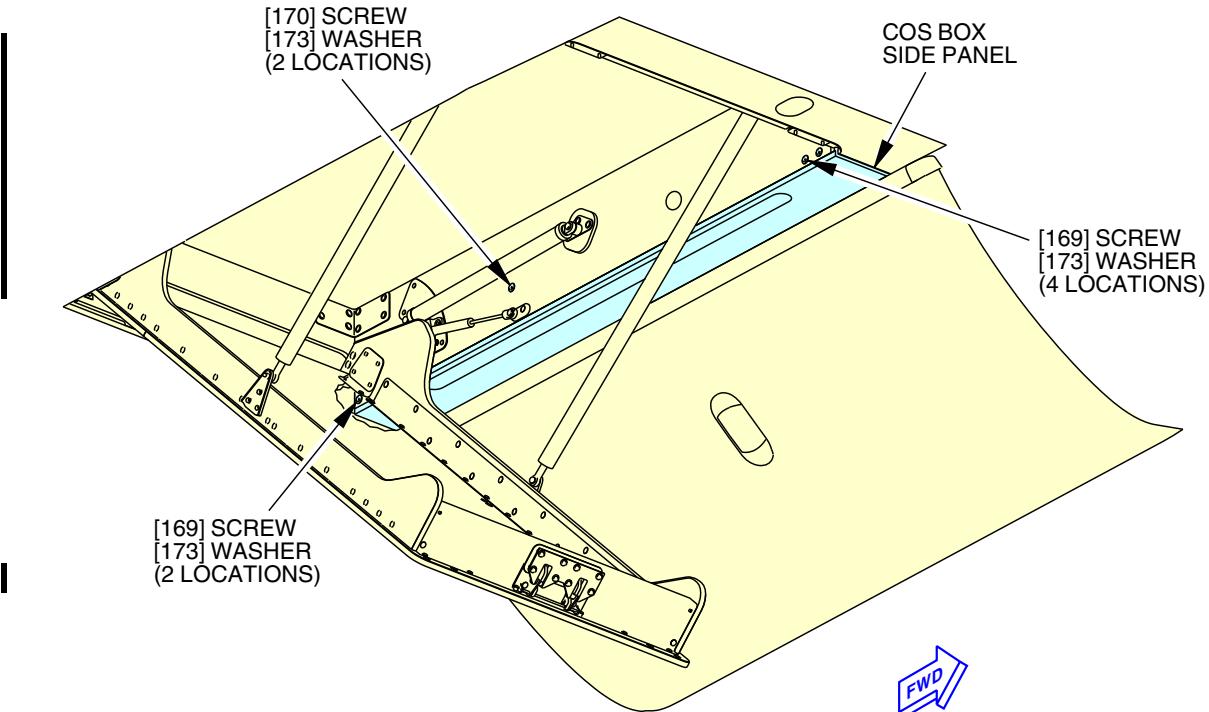
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PASSENGER COMPARTMENT



CENTER OVERHEAD STOWAGE LIGHT

A

2434514 S0000560952\_V3

Ceiling Light, Center Overhead Stowage - LED Light Assembly Replacement  
Figure 213/33-22-00-990-813 (Sheet 1 of 2)

EFFECTIVITY  
LOM 462-464, 466-999

**33-22-00**

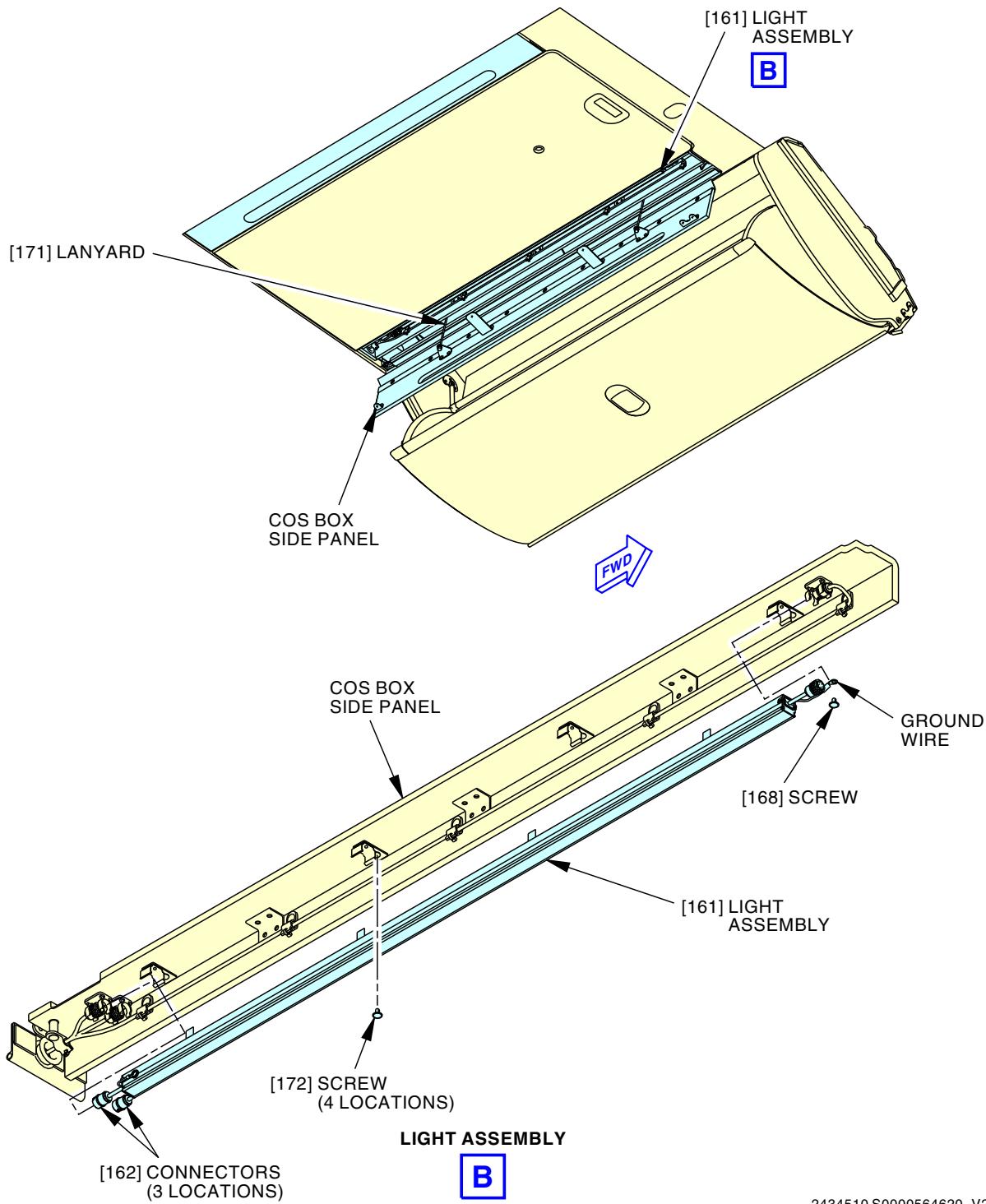
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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2434510 S0000564620\_V2

Ceiling Light, Center Overhead Stowage - LED Light Assembly Replacement  
Figure 213/33-22-00-990-813 (Sheet 2 of 2)

EFFECTIVITY  
LOM 462-464, 466-999

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CEILING LIGHTS - INSPECTION/CHECK

**1. General**

- A. This procedure has this task:
- (1) BSI LED Lights - Inspection

**TASK 33-22-00-200-801**

**2. BSI LED Light - Inspection/Check**

(Figure 601)

**A. General**

- (1) This procedure does a visual inspection of the ceiling Light Emitting Diode (LED) lights.
- (2) A maximum of 20% of the ceiling LED lights can be not serviceable if the lights opposite and adjacent to them are serviceable.
- (3) The LED direct lights and cove lights at the ends of the passenger cabin are not counted as ceiling lights. These lights are not critical for the charge of the photoluminescent strips.

**B. References**

Reference	Title
33-22-00-960-807	Ceiling Light, Bin/Wash - LED Light Assembly Replacement (P/B 201)
33-22-00-960-810	Ceiling Light, Center Overhead Stowage - LED Light Assembly Replacement (P/B 201)

**C. Location Zones**

Zone	Area
200	Upper Half of Fuselage

**D. Prepare for the Inspection**

**SUBTASK 33-22-00-440-001**

- (1) Make sure that the CAB/UTIL switch at the P5-13 panel is set to the ON position.

**E. BSI LED Light - Inspection/Check**

**SUBTASK 33-22-00-200-001**

- (1) Do a visual examination of the ceiling lights.
  - (a) Make sure that the attendant control panel display is activated.
    - 1) To activate it, touch the opposite corners of the display sequentially within two seconds.
  - (b) On the attendant control panel display, touch the Lighting tab.
  - (c) Below the Passenger Seating Area, touch the White BRIGHT button.
  - (d) Make sure that the ceiling lights, bullnose ceiling lights, wash only ceiling lights, and the Center Overhead Stowage (COS) lights (if installed) are on.

NOTE: The LED direct lights and cove lights at the ends of the passenger cabin are not part of this inspection.

  - 1) The long light assemblies in Table 601 are considered serviceable if:
    - a) Less than 16 inches of the assembly is not serviceable.
    - b) A cross-bin element assembly with one section set to off can have one more section not serviceable of less than 16 inches.

EFFECTIVITY  
LOM 427-434, 437-447, 450-999

**33-22-00**



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**Table 601/33-22-00-993-801 Ceiling Light Assemblies And Minimum Assembly Lengths**

Light Assembly	Element Assembly	Minimum Assembly Length
COS Light Assembly	COS Element Assembly	40 in. (1016 mm)
Wash-only Ceiling Light Assembly	Wash Element Assembly	40 in. (1016 mm)
Ceiling Light Assembly	Wash Element Assembly	40 in. (1016 mm)
	Cross-bin Element Assembly	40 in. (1016 mm)
Bullnose Ceiling Light Assembly	Wash Element Assembly	40 in. (1016 mm)
	Cross-bin Element Assembly	55 in. (1397 mm)

- 2) If necessary, replace the unserviceable light assembly. Do this task: Ceiling Light, Bin/Wash - LED Light Assembly Replacement, TASK 33-22-00-960-807 or Ceiling Light, Center Overhead Stowage - LED Light Assembly Replacement, TASK 33-22-00-960-810.

**F. Put the Airplane Back to Its Usual Condition**

SUBTASK 33-22-00-040-001

- (1) If the ceiling lighting is not necessary, set the CAB/UTIL switch at the P5–13 panel to the OFF position.

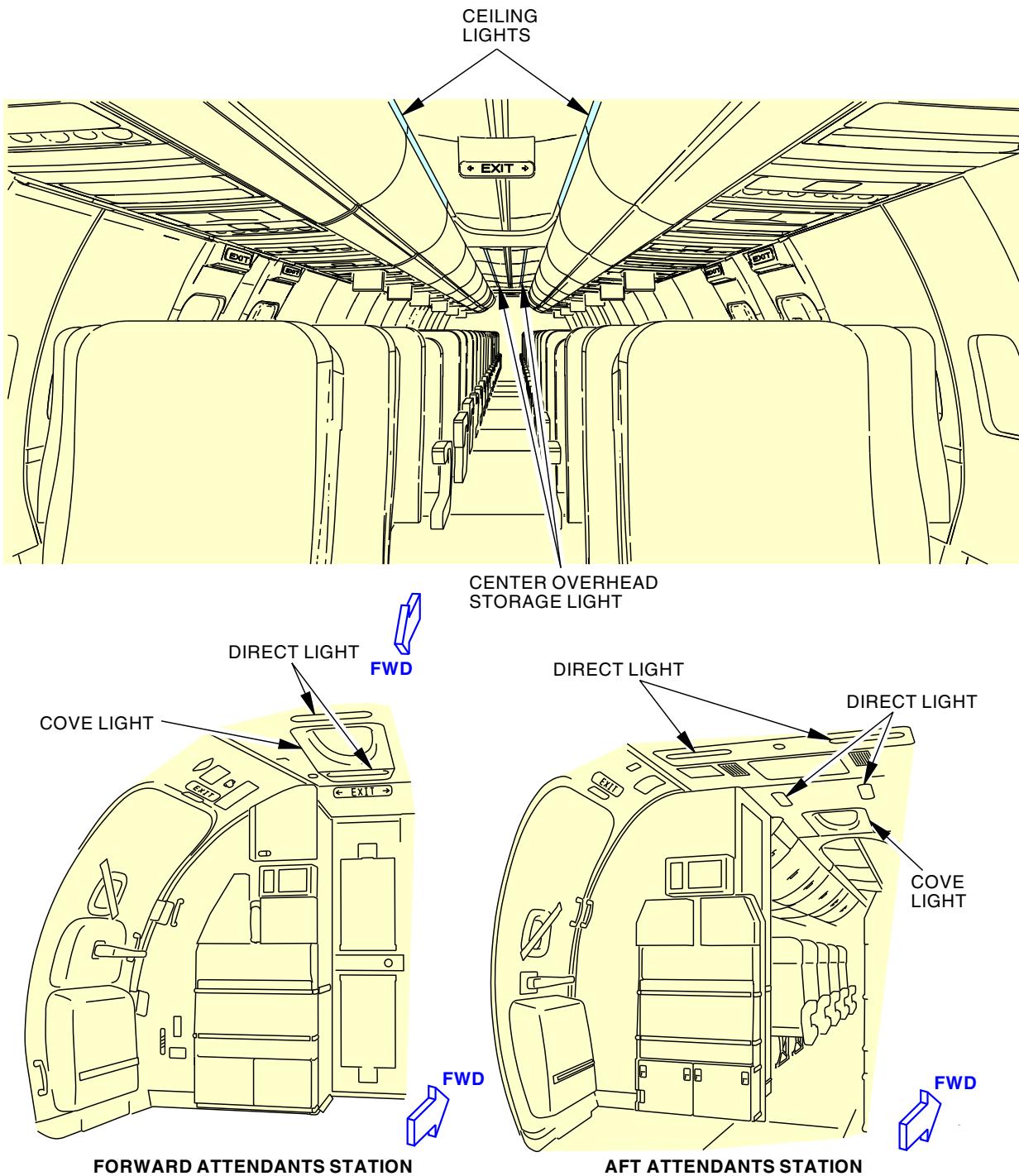
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EFFECTIVITY  
LOM 427-434, 437-447, 450-999

**33-22-00**



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**BSI LED Lights - Ceiling Lights**  
Figure 601/33-22-00-990-817

EFFECTIVITY  
LOM 427-434, 437-447, 450-999

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READING LIGHTS - MAINTENANCE PRACTICES

**1. General**

- A. This procedure has these tasks:
- (1) Reading Lights Deactivation.
  - (2) Reading Lights Activation.

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

- (3) Reading Light - Lamp Replacement.

**LOM ALL**

- (4) Reading Light - Light Assembly Replacement.
- (5) Reading Light - Adjustment.

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

- (6) Reading Light - PSU Circuit Board Replacement.
- (7) Reading Light - PSU Circuit Board Fuse Replacement.

**LOM ALL**

**TASK 33-23-00-040-801**

**2. Reading Lights - Deactivation**

(Figure 201)

**A. General**

- (1) This procedure removes electrical power from the reading lights.

**B. Location Zones**

Zone	Area
117	Electrical and Electronics Compartment - Left
118	Electrical and Electronics Compartment - Right
200	Upper Half of Fuselage

**C. Access Panels**

Number	Name/Location
117A	Electronic Equipment Access Door

**D. Reading Lights Deactivation**

SUBTASK 33-23-00-010-005

- (1) To get access to the P91 and P92 panels, open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 33-23-00-860-019



**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**

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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**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	1	C00087	PASS READING LIGHTS LEFT
B	2	C00088	PASS READING LIGHTS-LEFT
B	3	C00089	PASS READING LIGHTS-LEFT
B	4	C00090	PASS READING LIGHTS-LEFT
B	5	C00091	PASS READING LIGHTS-LEFT
B	6	C00092	PASS READING LIGHTS-LEFT
B	7	C00773	PASS READING LIGHTS-LEFT

**Power Distribution Panel Number 2, P92**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	1	C00094	PASS READING LIGHTS-RIGHT
B	2	C00095	PASS READING LIGHTS-RIGHT
B	3	C00096	PASS READING LIGHTS-RIGHT
B	4	C00097	PASS READING LIGHTS-RIGHT
B	5	C00098	PASS READING LIGHTS-RIGHT
B	6	C00099	PASS READING LIGHTS-RIGHT
B	7	C00774	PASS READING LIGHTS-RIGHT
B	8	C01437	PASS READING LIGHTS-RIGHT
B	9	C01438	PASS READING LIGHTS-RIGHT

SUBTASK 33-23-00-410-008

- (3) Close this access panel:

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

**E. Reading Lights - Tryout**

NOTE: This tryout is to make sure that the reading lights are in zero energy state.

SUBTASK 33-23-00-700-001

- (1) Do these steps at a Passenger Service Unit (PSU):

- (a) Set the switch for the reading light to the ON mode.
  - 1) Make sure that the reading light does not come on.
- (b) Set the switch to the OFF mode.

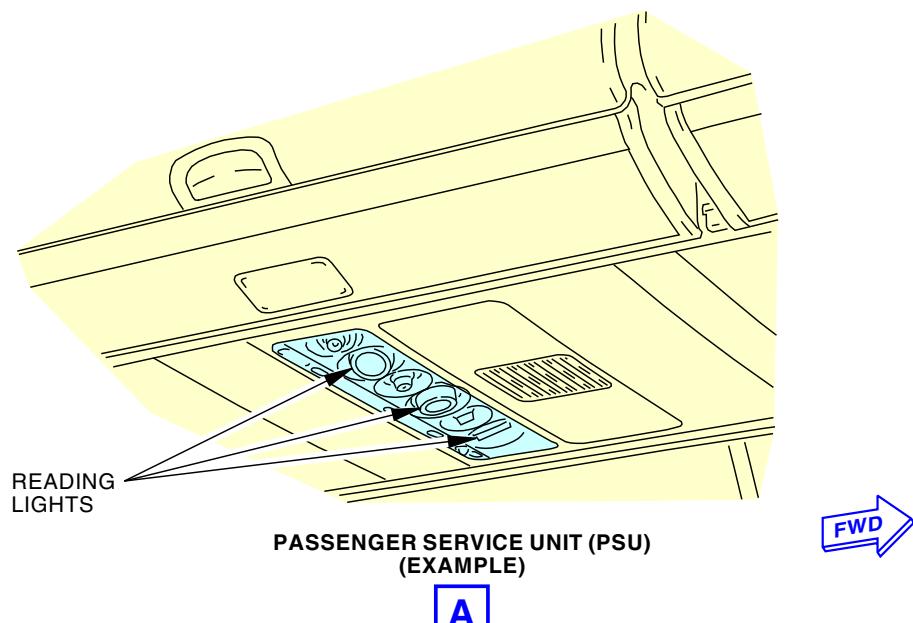
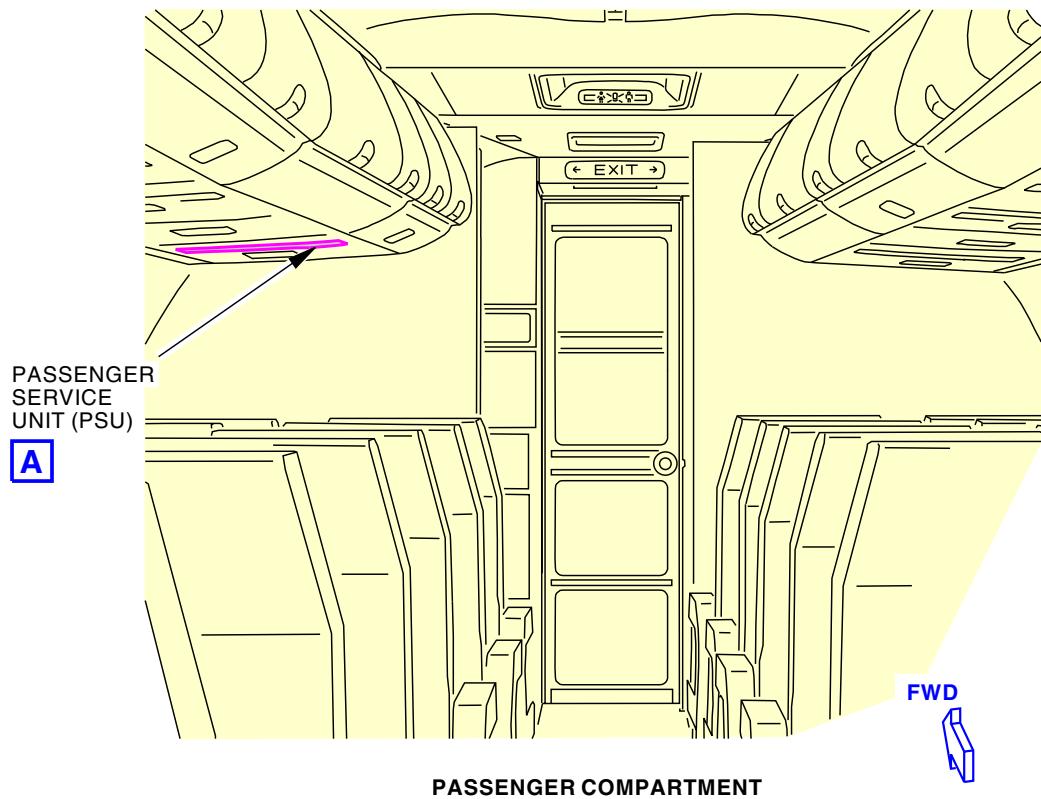
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**33-23-00**



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**Reading Lights**  
Figure 201/33-23-00-990-806

EFFECTIVITY  
LOM ALL

**33-23-00**

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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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TASK 33-23-00-440-801

3. **Reading Lights - Activation**

(Figure 201)

A. **General**

- (1) This procedure supplies electrical power to the reading lights.

B. **Location Zones**

Zone	Area
117	Electrical and Electronics Compartment - Left
118	Electrical and Electronics Compartment - Right
200	Upper Half of Fuselage

C. **Access Panels**

Number	Name/Location
117A	Electronic Equipment Access Door

D. **Reading Lights Activation**

SUBTASK 33-23-00-010-008

- (1) To get access to the P91 and P92 panels, open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 33-23-00-860-020



**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
B	1	C00087	PASS READING LIGHTS LEFT
B	2	C00088	PASS READING LIGHTS-LEFT
B	3	C00089	PASS READING LIGHTS-LEFT
B	4	C00090	PASS READING LIGHTS-LEFT
B	5	C00091	PASS READING LIGHTS-LEFT
B	6	C00092	PASS READING LIGHTS-LEFT
B	7	C00773	PASS READING LIGHTS-LEFT



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**Power Distribution Panel Number 2, P92**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	1	C00094	PASS READING LIGHTS-RIGHT
B	2	C00095	PASS READING LIGHTS-RIGHT
B	3	C00096	PASS READING LIGHTS-RIGHT
B	4	C00097	PASS READING LIGHTS-RIGHT
B	5	C00098	PASS READING LIGHTS-RIGHT
B	6	C00099	PASS READING LIGHTS-RIGHT
B	7	C00774	PASS READING LIGHTS-RIGHT
B	8	C01437	PASS READING LIGHTS-RIGHT
B	9	C01438	PASS READING LIGHTS-RIGHT

SUBTASK 33-23-00-410-004

- (3) Close this access panel:

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

———— END OF TASK ————

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426

**TASK 33-23-00-960-801**

**4. Reading Light - Lamp Replacement**

(Figure 202)

**A. References**

<u>Reference</u>	<u>Title</u>
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
WDM 33-23-11	Wiring Diagram Manual
WDM 33-23-12	Wiring Diagram Manual
WDM 33-23-21	Wiring Diagram Manual
WDM 33-23-22	Wiring Diagram Manual
WDM 33-23-31	Wiring Diagram Manual

**B. Location Zones**

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

**C. Procedure**

SUBTASK 33-23-00-960-001



**WARNING**

DO NOT TOUCH THE SOCKET OR THE METAL END OF THE LAMP. WHEN ELECTRICAL POWER IS SUPPLIED TO THE LIGHT, ELECTRICAL SHOCK CAN OCCUR.

EFFECTIVITY  
LOM ALL

**33-23-00**



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

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)**

**(WARNING PRECEDES)**



**WARNING**

PUT ON SAFETY GLASSES TO PREVENT EYE INJURIES. EYE PROTECTION IS MANDATORY. THE HALOGEN LAMP IS PRESSURIZED. IF THE LAMP BREAKS, THE PRESSURE WILL EJECT THE GLASS WITH AN EXPLOSIVE FORCE. INJURIES TO YOUR EYES CAN OCCUR IF THE LAMP BREAKS.



**CAUTION**

DO NOT TOUCH THE HALOGEN LAMP WITH YOUR BARE SKIN. USE A CLOTH TO HOLD THE HALOGEN LAMP. IF YOUR SKIN TOUCHES THE HALOGEN LAMP, YOU WILL DECREASE ITS LIFE.

- (1) Do these steps to replace the lamp (WDM 33-23-11) (WDM 33-23-12) (WDM 33-23-21) (WDM 33-23-22) (WDM 33-23-31):
  - (a) Remove the lens assembly [2].  
*NOTE:* With two fingers, push together the inner and outer sides of the lens assembly. At the same time, turn the lens assembly counterclockwise to disengage it.
  - (b) Replace the lamp [1].
  - (c) Install the lens assembly [2].

SUBTASK 33-23-00-860-001

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

SUBTASK 33-23-00-710-001

- (3) Do a test of the new lamp.
  - (a) Set the switch for the reading light to the on mode.
    - 1) Make sure the lamp comes on.
  - (b) Set the switch to the off mode.
    - 1) Make sure the lamp goes off.

SUBTASK 33-23-00-860-002

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

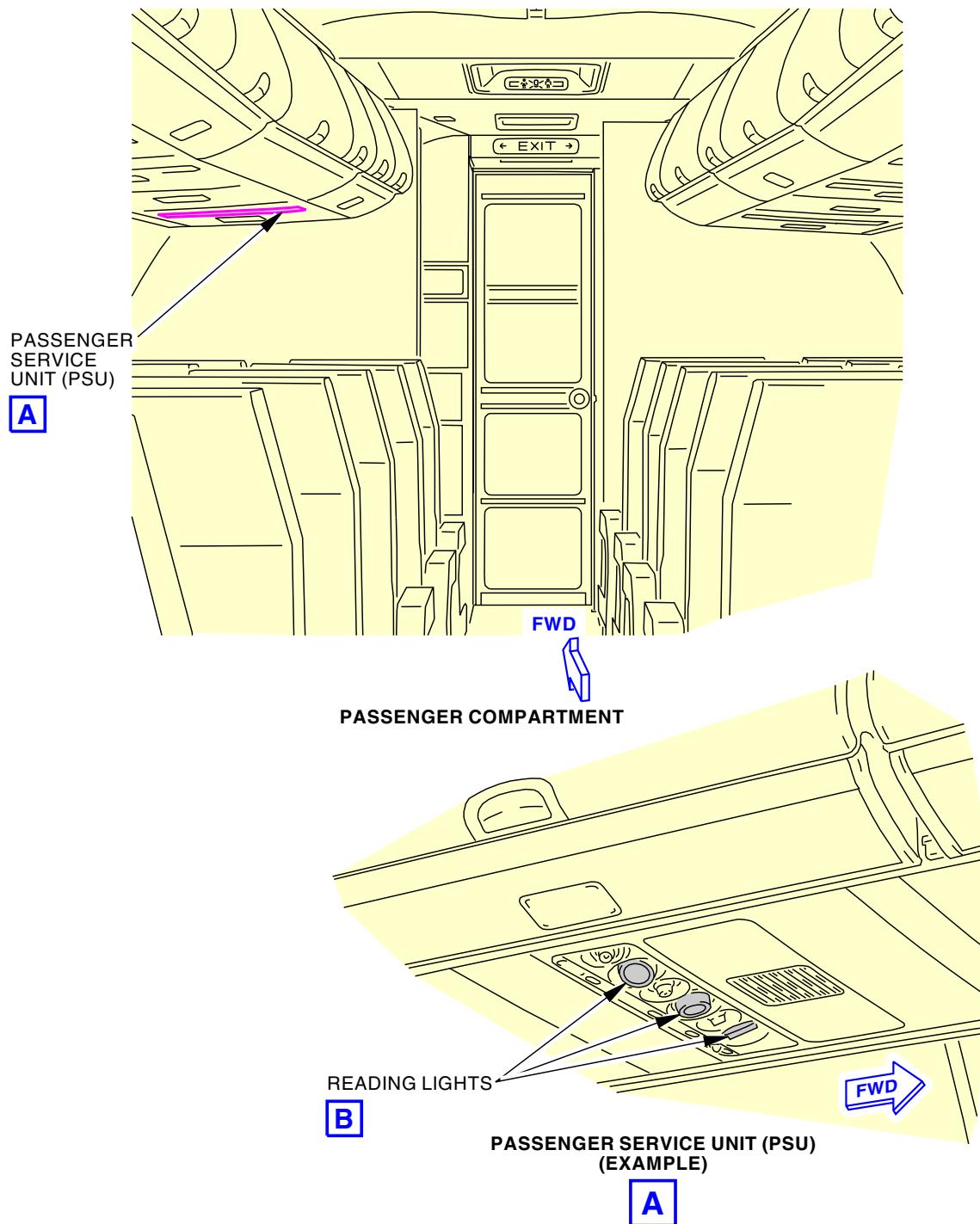
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EFFECTIVITY  
LOM ALL

**33-23-00**



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AIRCRAFT MAINTENANCE MANUAL



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**Reading Light - Lamp Replacement**  
**Figure 202/33-23-00-990-801 (Sheet 1 of 2)**

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

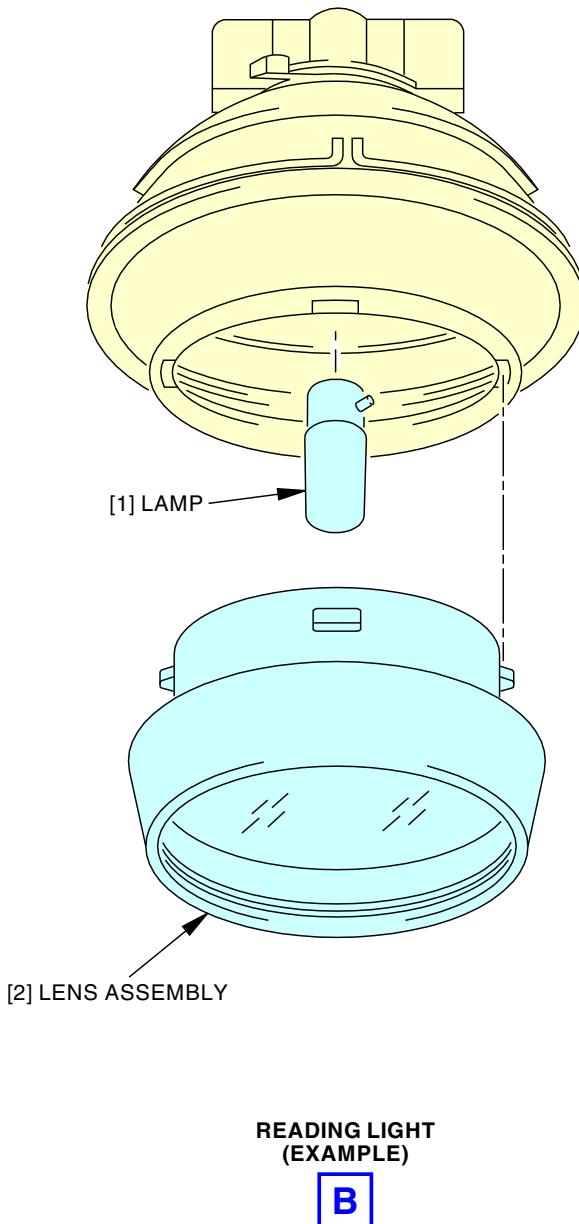
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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



F64289 S0006576031\_V3

**Reading Light - Lamp Replacement**  
**Figure 202/33-23-00-990-801 (Sheet 2 of 2)**

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

**33-23-00**

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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

LOM ALL

**TASK 33-23-00-960-802**

**5. Reading Light - Light Assembly Replacement**

(Figure 203)

**A. References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
25-23-61-000-801	Passenger Service Unit (PSU) - Removal (P/B 201)
25-23-61-000-804	Passenger Service Unit - Removal (P/B 401)
25-23-61-400-801	Passenger Service Unit (PSU) - Installation (P/B 201)
25-23-61-400-804	Passenger Service Unit - Installation (P/B 401)
WDM 33-23-11	Wiring Diagram Manual
WDM 33-23-12	Wiring Diagram Manual
WDM 33-23-21	Wiring Diagram Manual
WDM 33-23-22	Wiring Diagram Manual
WDM 33-23-31	Wiring Diagram Manual

**B. Location Zones**

Zone	Area
117	Electrical and Electronics Compartment - Left
118	Electrical and Electronics Compartment - Right
200	Upper Half of Fuselage

**C. Access Panels**

Number	Name/Location
117A	Electronic Equipment Access Door

**D. Reading Light Assembly Replacement**

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

SUBTASK 33-23-00-960-003

- (1) If it is necessary, replace the fuse, do this task: Reading Light - PSU Circuit Board Fuse Replacement, TASK 33-23-00-960-803.

NOTE: If the new fuse corrects the problem then you do not need to replace the light assembly.

**LOM ALL**

SUBTASK 33-23-00-010-006

- (2) To get access to the P91 and P92 panels, open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

EFFECTIVITY  
**LOM ALL**

**33-23-00**



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SUBTASK 33-23-00-860-003



**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.



**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 the applicable circuit breakers and install the safety tags:

(WDM 33-23-11, WDM 33-23-12, WDM 33-23-21, WDM 33-23-22, WDM 33-23-31)

**Power Distribution Panel Number 1, P91**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	1	C00087	PASS READING LIGHTS LEFT
B	2	C00088	PASS READING LIGHTS-LEFT
B	3	C00089	PASS READING LIGHTS-LEFT
B	4	C00090	PASS READING LIGHTS-LEFT
B	5	C00091	PASS READING LIGHTS-LEFT
B	6	C00092	PASS READING LIGHTS-LEFT
B	7	C00773	PASS READING LIGHTS-LEFT
B	8	C01152	PASS READING LIGHTS-LEFT
B	9	C01153	PASS READING LIGHTS-LEFT

**Power Distribution Panel Number 2, P92**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	1	C00094	PASS READING LIGHTS-RIGHT
B	2	C00095	PASS READING LIGHTS-RIGHT
B	3	C00096	PASS READING LIGHTS-RIGHT
B	4	C00097	PASS READING LIGHTS-RIGHT
B	5	C00098	PASS READING LIGHTS-RIGHT
B	6	C00099	PASS READING LIGHTS-RIGHT
B	7	C00774	PASS READING LIGHTS-RIGHT
B	8	C01437	PASS READING LIGHTS-RIGHT
B	9	C01438	PASS READING LIGHTS-RIGHT

SUBTASK 33-23-00-010-001

- (4) For access to the top of the light assembly [23], lower the Passenger Service Unit (PSU) (TASK 25-23-61-000-801 or TASK 25-23-61-000-804).

SUBTASK 33-23-00-960-002

- (5) Do these steps to replace the light assembly [23]:  
(a) Disconnect the electrical connectors [21].

EFFECTIVITY  
LOM ALL

**33-23-00**



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- (b) Remove the retaining ring [22].

NOTE: To remove the retaining ring, push apart the ends of the retaining ring to loosen it from the light assembly. Prepare to catch the light assembly when it falls from the panel.

- (c) Replace the light assembly [23].

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

- 1) Make sure that a lamp is installed in the new light assembly [23]  
(TASK 33-23-00-960-801).

**LOM ALL**

- 2) Put the light assembly [23] back in the panel.  
3) Make sure that the notch on the light assembly [23] aligns with the notch on the panel.

NOTE: The notches can be seen from the top side of the panel.

- (d) Install the retaining ring [22] around the light assembly [23].

NOTE: To install the retaining ring, use pliers to pull together the ends of the retaining ring. The retaining ring must be tight to hold the light assembly in its position.

- (e) Connect the electrical connectors [21].

**SUBTASK 33-23-00-410-001**

- (6) Close the PSU (TASK 25-23-61-400-801 or TASK 25-23-61-400-804).

**SUBTASK 33-23-00-860-004**

- (7) Make sure that electrical power is supplied to the airplane (TASK 24-22-00-860-811).

**SUBTASK 33-23-00-860-005**



**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.

- (8) Remove the safety tags and close the applicable circuit breakers:

**Power Distribution Panel Number 1, P91**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
B	1	C00087	PASS READING LIGHTS LEFT
B	2	C00088	PASS READING LIGHTS-LEFT
B	3	C00089	PASS READING LIGHTS-LEFT
B	4	C00090	PASS READING LIGHTS-LEFT
B	5	C00091	PASS READING LIGHTS-LEFT
B	6	C00092	PASS READING LIGHTS-LEFT

EFFECTIVITY  
**LOM ALL**

**33-23-00**



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(Continued)

**Power Distribution Panel Number 1, P91**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	7	C00773	PASS READING LIGHTS-LEFT
B	8	C01152	PASS READING LIGHTS-LEFT
B	9	C01153	PASS READING LIGHTS-LEFT

**Power Distribution Panel Number 2, P92**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	1	C00094	PASS READING LIGHTS-RIGHT
B	2	C00095	PASS READING LIGHTS-RIGHT
B	3	C00096	PASS READING LIGHTS-RIGHT
B	4	C00097	PASS READING LIGHTS-RIGHT
B	5	C00098	PASS READING LIGHTS-RIGHT
B	6	C00099	PASS READING LIGHTS-RIGHT
B	7	C00774	PASS READING LIGHTS-RIGHT
B	8	C01437	PASS READING LIGHTS-RIGHT
B	9	C01438	PASS READING LIGHTS-RIGHT

SUBTASK 33-23-00-410-007

- (9) Close this access panel:

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

SUBTASK 33-23-00-710-002

- (10) Do a test of the light assembly [23]:

- (a) Set the switch for the reading light to the ON mode.

- 1) Make sure that the light comes on.
- 2) Make sure that the reading light is adjusted to give the best lighting for a passenger to read a book.

NOTE: The best lighting for a passenger to read a book is at approximately the center of the forward edge of the seat.

- (b) Set the switch to the OFF mode.

- 1) Make sure that the light goes off.

SUBTASK 33-23-00-860-006

- (11) Remove electrical power if it is not necessary (TASK 24-22-00-860-812).

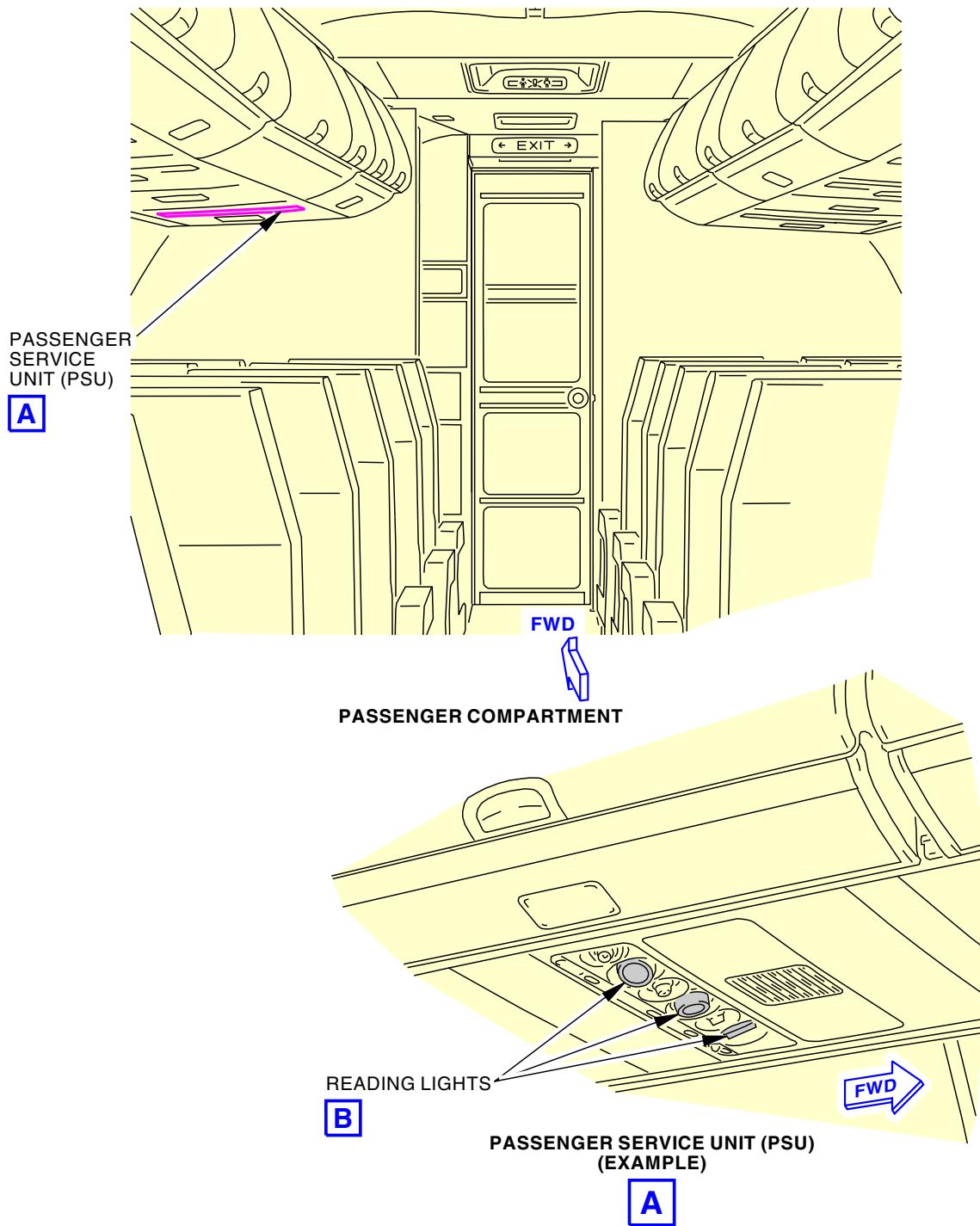
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**Reading Light - Light Assembly Replacement**  
Figure 203/33-23-00-990-802 (Sheet 1 of 4)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

**33-23-00**

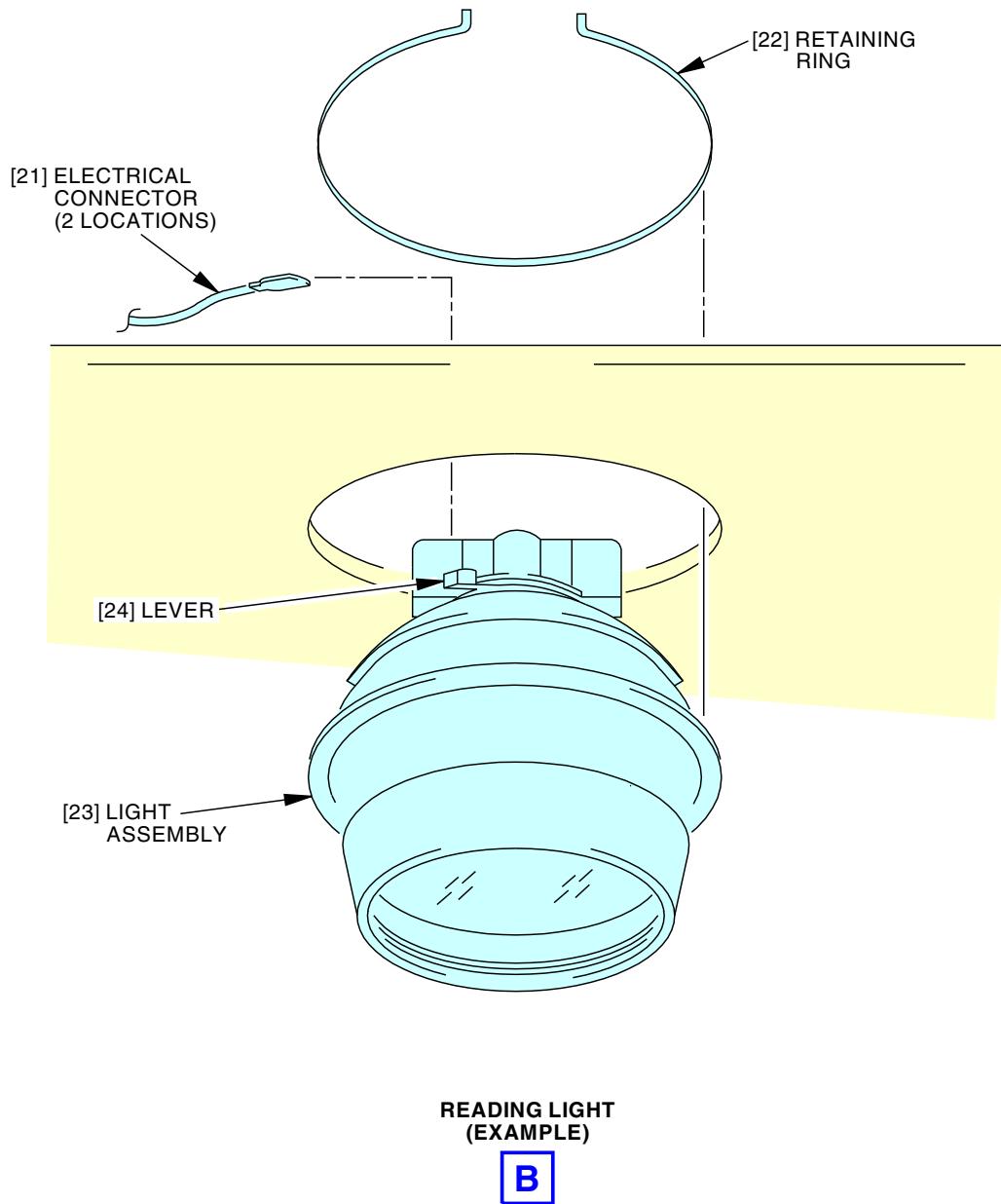
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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AIRCRAFT MAINTENANCE MANUAL



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Reading Light - Light Assembly Replacement  
Figure 203/33-23-00-990-802 (Sheet 2 of 4)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

**33-23-00**

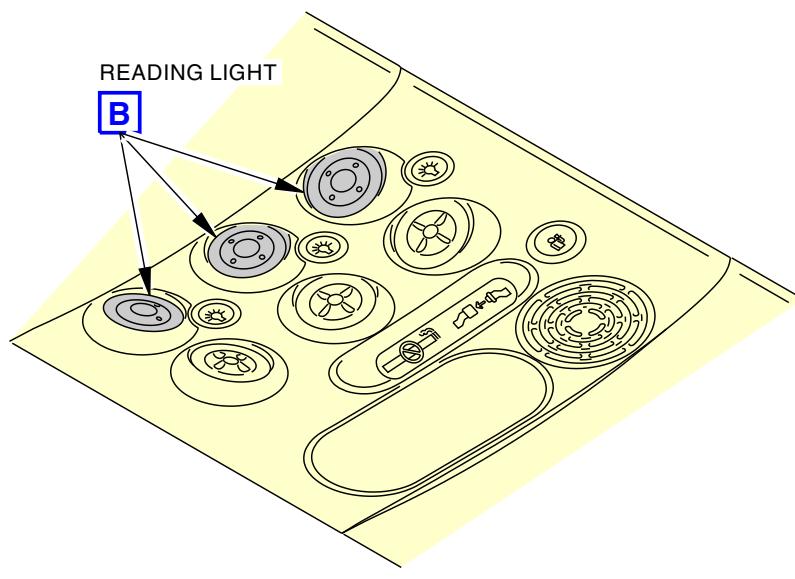
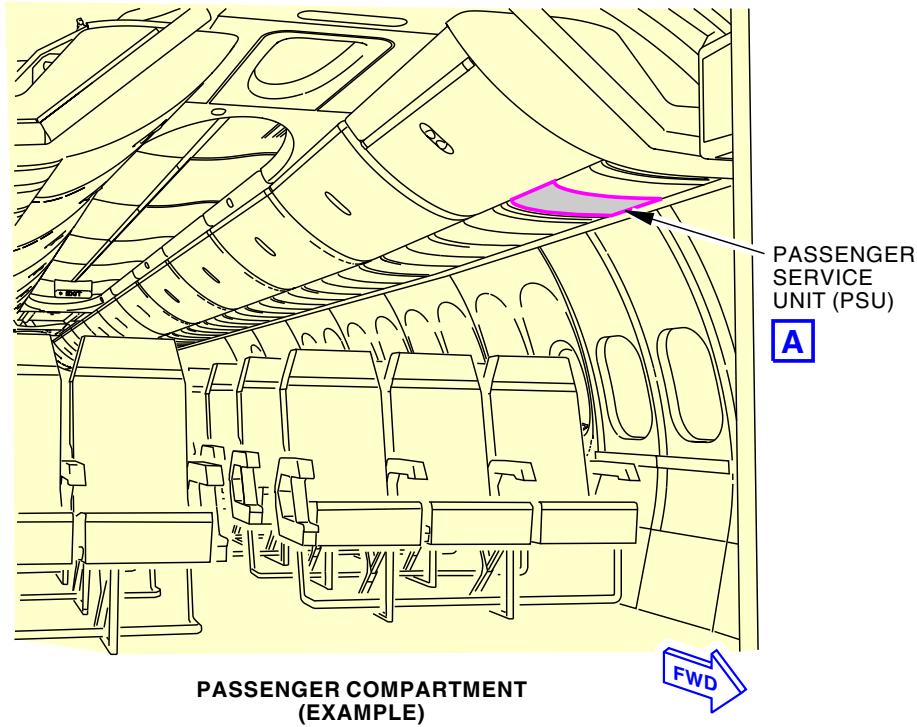
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**Reading Light - Light Assembly Replacement**  
Figure 203/33-23-00-990-802 (Sheet 3 of 4)

EFFECTIVITY  
LOM 427-434, 437-447, 450-999

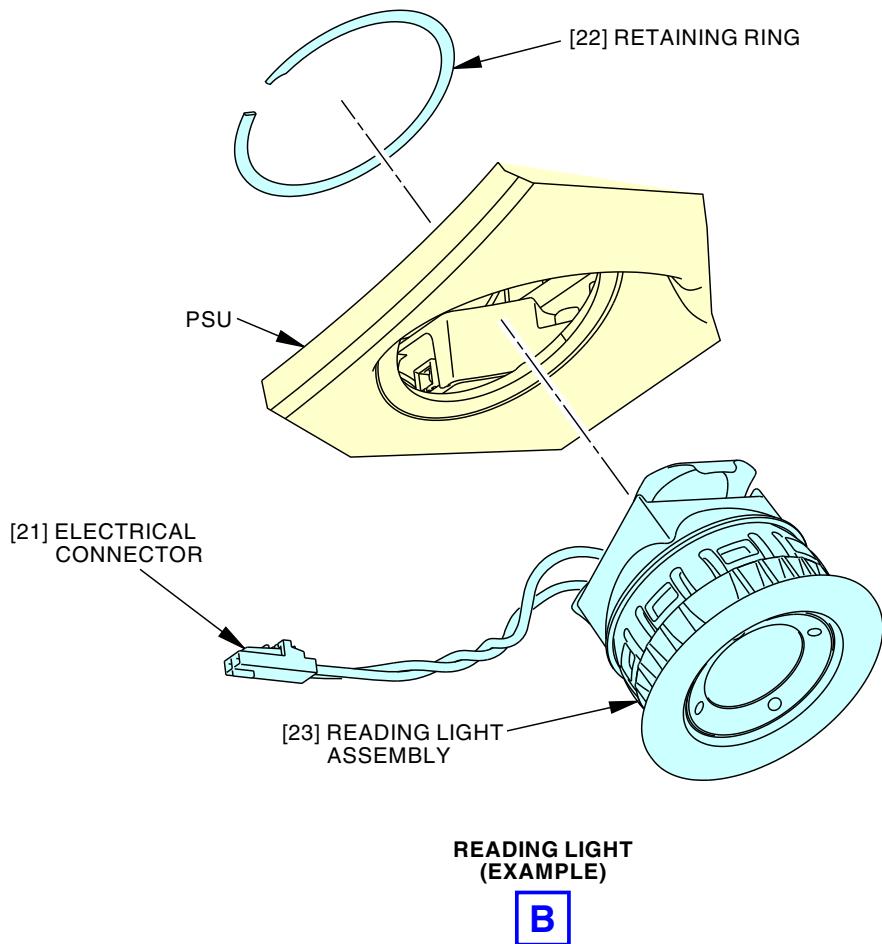
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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



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**Reading Light - Light Assembly Replacement**  
**Figure 203/33-23-00-990-802 (Sheet 4 of 4)**

EFFECTIVITY  
LOM 427-434, 437-447, 450-999

**33-23-00**

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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**TASK 33-23-00-820-803**

**6. Reading Light - Adjustment and Test**

(Figure 204)

**A. General**

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

- (1) If the reading light has circular lens, you can permit the passengers and attendants to adjust the direction of the light beam. You can also adjust and lock the reading light in its position. Passengers and attendants cannot change direction of the light beam while the reading light is locked.
- (2) If the reading light has a rectangular lens, you can adjust where the light beam is pointed. Passenger and attendants cannot adjust the reading light to change the direction of the light beam

**LOM 427-434, 437-447, 450-999**

- (3) You can permit the passengers and attendants to adjust the direction of the light beam. You can also adjust and lock the reading light in its position. Passengers and attendants cannot change direction of the light beam while the reading light is locked.

**LOM ALL**

**B. References**

<b>Reference</b>	<b>Title</b>
25-23-61-000-801	Passenger Service Unit (PSU) - Removal (P/B 201)
25-23-61-000-804	Passenger Service Unit - Removal (P/B 401)
25-23-61-400-801	Passenger Service Unit (PSU) - Installation (P/B 201)
25-23-61-400-804	Passenger Service Unit - Installation (P/B 401)

**C. Location Zones**

<b>Zone</b>	<b>Area</b>
117	Electrical and Electronics Compartment - Left
118	Electrical and Electronics Compartment - Right
200	Upper Half of Fuselage

**D. Access Panels**

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

**E. Reading Light Adjustment and Test**

SUBTASK 33-23-00-820-006

- (1) Adjusting the reading light:

- (a) If the reading light is off, set its switch to the ON position.
- (b) Examine where the light beam is pointed.

NOTE: The correct adjustment of a reading light is in the direction that gives the best lighting for a person to read a book. This is at approximately the center of the forward edge of the seat.

- (c) Remove electrical power from the light:



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- 1) To get access to the P91 and P92 panels, open this access panel:

Number    Name/Location

117A      Electronic Equipment Access Door



**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 the applicable circuit breakers and install safety tags:

**Power Distribution Panel Number 1, P91**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	1	C00087	PASS READING LIGHTS LEFT
B	2	C00088	PASS READING LIGHTS-LEFT
B	3	C00089	PASS READING LIGHTS-LEFT
B	4	C00090	PASS READING LIGHTS-LEFT
B	5	C00091	PASS READING LIGHTS-LEFT
B	6	C00092	PASS READING LIGHTS-LEFT
B	7	C00773	PASS READING LIGHTS-LEFT
B	8	C01152	PASS READING LIGHTS-LEFT
B	9	C01153	PASS READING LIGHTS-LEFT

**Power Distribution Panel Number 2, P92**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	1	C00094	PASS READING LIGHTS-RIGHT
B	2	C00095	PASS READING LIGHTS-RIGHT
B	3	C00096	PASS READING LIGHTS-RIGHT
B	4	C00097	PASS READING LIGHTS-RIGHT
B	5	C00098	PASS READING LIGHTS-RIGHT
B	6	C00099	PASS READING LIGHTS-RIGHT
B	7	C00774	PASS READING LIGHTS-RIGHT
B	8	C01437	PASS READING LIGHTS-RIGHT
B	9	C01438	PASS READING LIGHTS-RIGHT

- (d) Open the Passenger Service Unit (PSU) to get access to the rear of the reading light (TASK 25-23-61-000-801 or TASK 25-23-61-000-804).

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

- (e) Adjust the direction of the light beam for reading light with circular lens.

EFFECTIVITY  
LOM ALL

**33-23-00**



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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)**

- 1) Use the lever to release the reading light assembly.
- 2) Move the lens assembly until the reading light is in its correct position.
- (f) Adjust the direction of the light beam for reading light with a rectangular lens.
  - 1) Loosen the two adjustment nuts on the edge of the reflector.
  - 2) Move the reflector until the reading light is in the correct position.
  - 3) Tighten the adjustment nuts.

**LOM 427-434, 437-447, 450-999**

- (g) Adjust the direction of the light beam.
  - 1) Use the lever to release the reading light assembly.
  - 2) Move the lens assembly until the reading light is in its correct position.

**LOM ALL**

- (h) Close the PSU (TASK 25-23-61-400-801 or TASK 25-23-61-400-804).

SUBTASK 33-23-00-710-010

- (2) Do a test of the light beam adjustment.



**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 the safety tags and close the applicable circuit breakers:

**Power Distribution Panel Number 1, P91**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	1	C00087	PASS READING LIGHTS LEFT
B	2	C00088	PASS READING LIGHTS-LEFT
B	3	C00089	PASS READING LIGHTS-LEFT
B	4	C00090	PASS READING LIGHTS-LEFT
B	5	C00091	PASS READING LIGHTS-LEFT
B	6	C00092	PASS READING LIGHTS-LEFT
B	7	C00773	PASS READING LIGHTS-LEFT
B	8	C01152	PASS READING LIGHTS-LEFT
B	9	C01153	PASS READING LIGHTS-LEFT

EFFECTIVITY  
**LOM ALL**

**33-23-00**



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**Power Distribution Panel Number 2, P92**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	1	C00094	PASS READING LIGHTS-RIGHT
B	2	C00095	PASS READING LIGHTS-RIGHT
B	3	C00096	PASS READING LIGHTS-RIGHT
B	4	C00097	PASS READING LIGHTS-RIGHT
B	5	C00098	PASS READING LIGHTS-RIGHT
B	6	C00099	PASS READING LIGHTS-RIGHT
B	7	C00774	PASS READING LIGHTS-RIGHT
B	8	C01437	PASS READING LIGHTS-RIGHT
B	9	C01438	PASS READING LIGHTS-RIGHT

- (b) Make sure that the reading light is adjusted to give the best lighting for a passenger to read a book.

NOTE: The best lighting for a passenger to read a book is at approximately the center of the forward edge of the seat.

- (c) Set the switch to the usual position.

SUBTASK 33-23-00-410-005

- (3) Close this access panel:

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

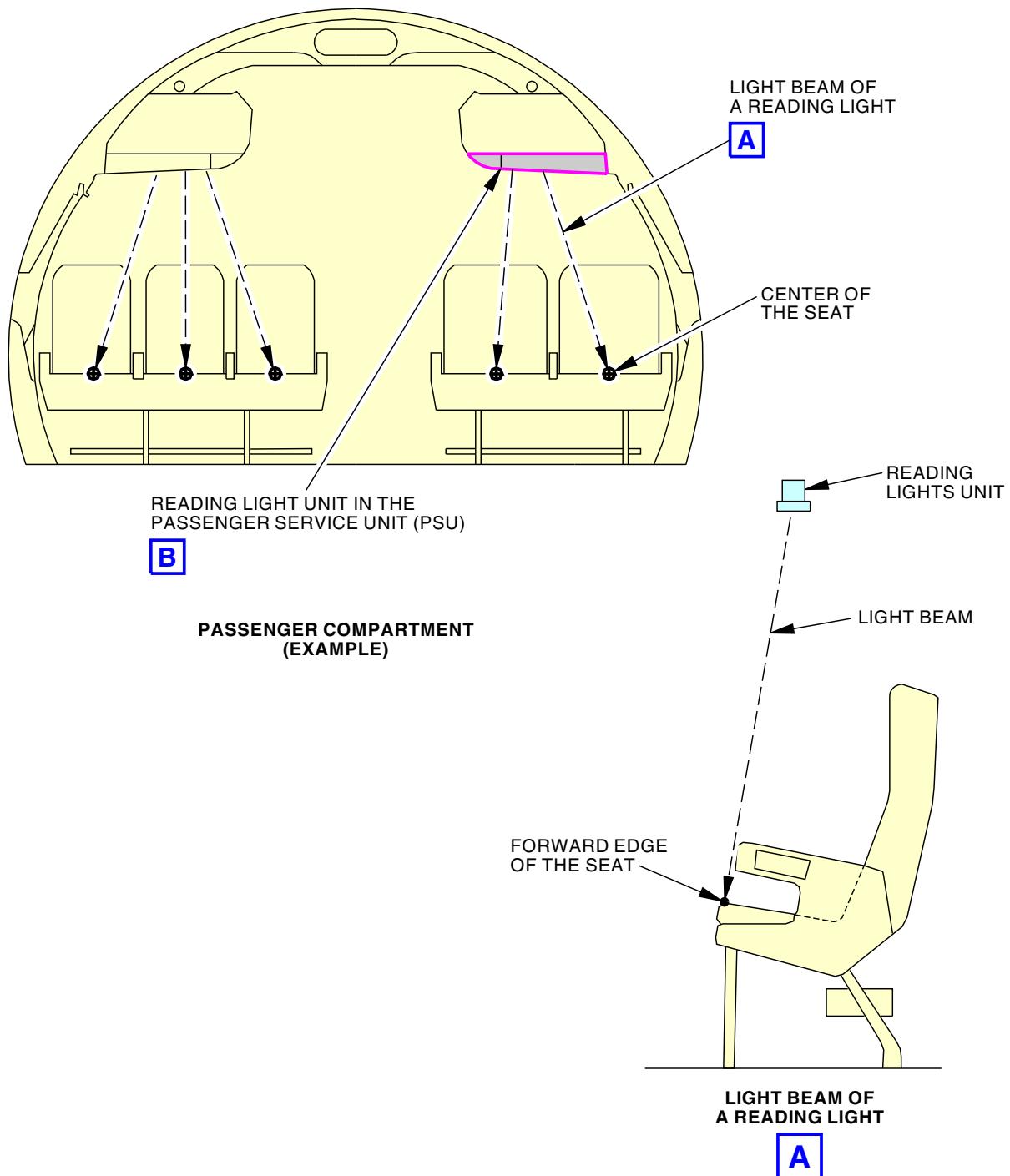
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EFFECTIVITY  
LOM ALL

**33-23-00**



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Reading Lights - Light Beam Adjustment  
Figure 204/33-23-00-990-805 (Sheet 1 of 3)

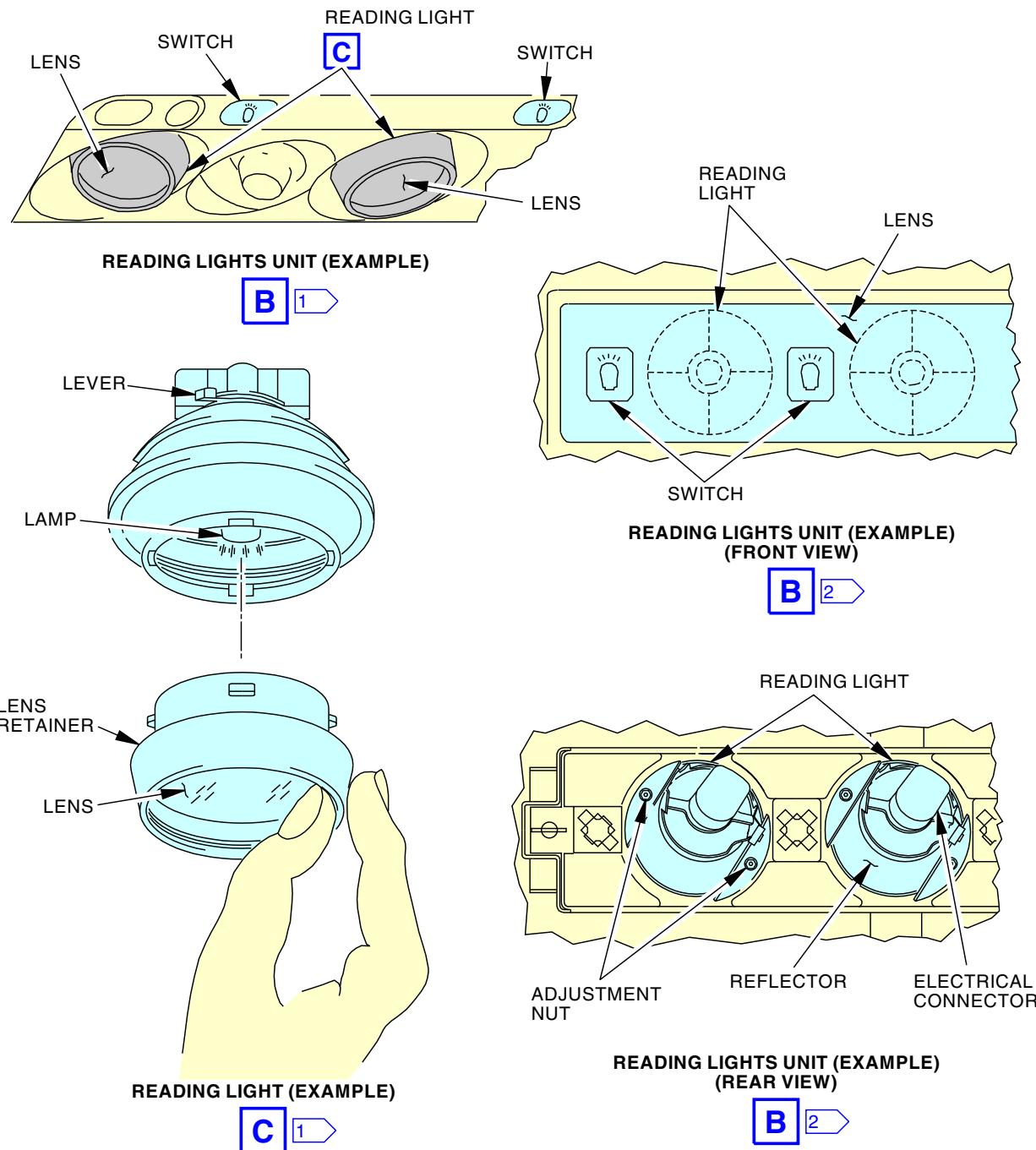
EFFECTIVITY  
LOM ALL

**33-23-00**

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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AIRCRAFT MAINTENANCE MANUAL**


- [1] READING LIGHT WITH A CIRCULAR LENS  
[2] READING LIGHT WITH A RECTANGULAR LENS

1553748 S0000285762\_V2

**Reading Lights - Light Beam Adjustment  
Figure 204/33-23-00-990-805 (Sheet 2 of 3)**

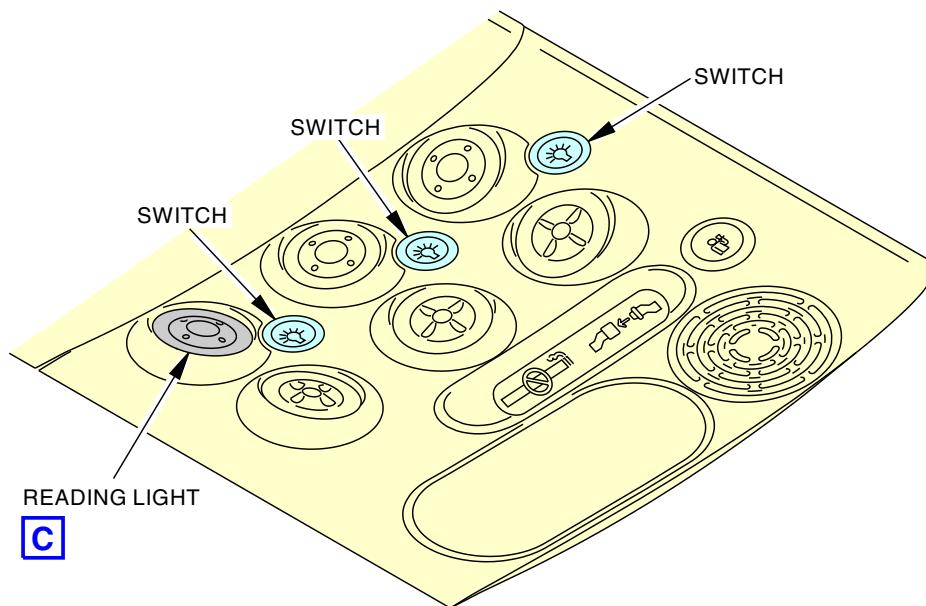
EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

**33-23-00**

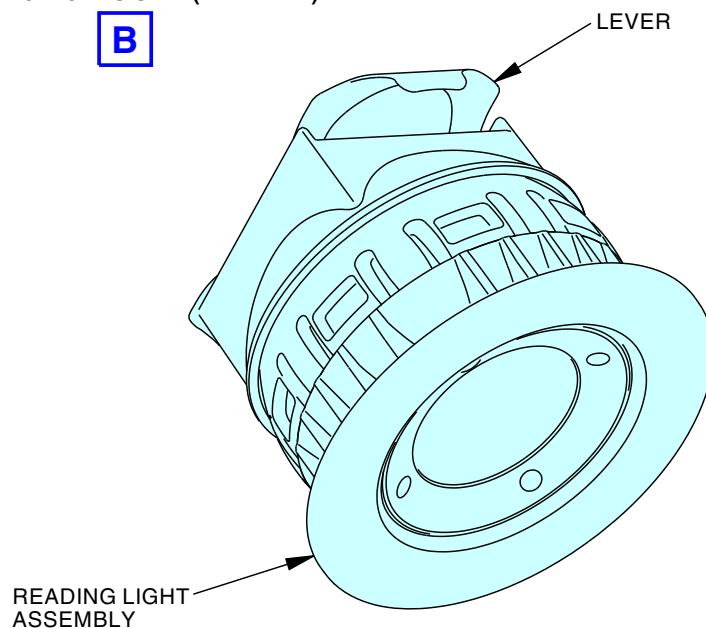
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737-600/700/800/900  
AIRCRAFT MAINTENANCE MANUAL



READING LIGHTS UNIT (EXAMPLE)



READING LIGHT (EXAMPLE)

C

2069824 S0000431461\_V2

Reading Lights - Light Beam Adjustment  
Figure 204/33-23-00-990-805 (Sheet 3 of 3)

EFFECTIVITY  
LOM 427-434, 437-447, 450-999

**33-23-00**

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

**TASK 33-23-00-820-801**

**7. Reading Light - PSU Circuit Board Replacement**

(Figure 205)

**A. References**

<b>Reference</b>	<b>Title</b>
20-40-12-000-801	ESDS Handling for Printed Circuit Board Removal (P/B 201)
20-40-12-400-801	ESDS Handling for Printed Circuit Board Installation (P/B 201)
25-23-61-000-801	Passenger Service Unit (PSU) - Removal (P/B 201)
25-23-61-400-801	Passenger Service Unit (PSU) - Installation (P/B 201)
25-23-61-400-802	Three-piece Adjustable PSU Spacer Panel Installation (P/B 201)
WDM 33-23-11	Wiring Diagram Manual
WDM 33-23-21	Wiring Diagram Manual
WDM 33-23-22	Wiring Diagram Manual
WDM 33-23-31	Wiring Diagram Manual
WDM 33-23-32	Wiring Diagram Manual
WDM 33-23-41	Wiring Diagram Manual

**B. Location Zones**

<b>Zone</b>	<b>Area</b>
117	Electrical and Electronics Compartment - Left
118	Electrical and Electronics Compartment - Right
200	Upper Half of Fuselage

**C. Access Panels**

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

**D. PSU Circuit Board Replacement**

SUBTASK 33-23-00-860-021

- (1) Open the applicable circuit breakers and install the safety tags:

**CAPT Electrical System Panel, P18-3**

**Row Col Number Name**

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-426**

A	8	C01403	PASSENGER CABIN PASS CALL LEFT
B	8	C01404	PASSENGER CABIN PASS CALL RIGHT

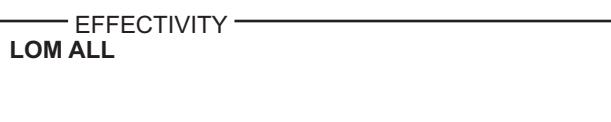
**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

SUBTASK 33-23-00-010-007

- (2) To get access to the P91 and P92 panels, open this access panel:

**Number Name/Location**

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



**33-23-00**



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AIRCRAFT MAINTENANCE MANUAL

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)

SUBTASK 33-23-00-860-007



**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.

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

(WDM 33-23-11, WDM 33-23-21, WDM 33-23-22, WDM 33-23-31, WDM 33-23-32, WDM 33-23-41)

**Power Distribution Panel Number 1, P91**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	1	C00087	PASS READING LIGHTS LEFT
B	2	C00088	PASS READING LIGHTS-LEFT
B	3	C00089	PASS READING LIGHTS-LEFT
B	4	C00090	PASS READING LIGHTS-LEFT
B	5	C00091	PASS READING LIGHTS-LEFT
B	6	C00092	PASS READING LIGHTS-LEFT
B	7	C00773	PASS READING LIGHTS-LEFT
B	8	C01152	PASS READING LIGHTS-LEFT
B	9	C01153	PASS READING LIGHTS-LEFT

**Power Distribution Panel Number 2, P92**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	1	C00094	PASS READING LIGHTS-RIGHT
B	2	C00095	PASS READING LIGHTS-RIGHT
B	3	C00096	PASS READING LIGHTS-RIGHT
B	4	C00097	PASS READING LIGHTS-RIGHT
B	5	C00098	PASS READING LIGHTS-RIGHT
B	6	C00099	PASS READING LIGHTS-RIGHT
B	7	C00774	PASS READING LIGHTS-RIGHT
B	8	C01437	PASS READING LIGHTS-RIGHT
B	9	C01438	PASS READING LIGHTS-RIGHT

SUBTASK 33-23-00-010-002

- (4) For access to the top of the light assembly, lower the PSU [45] (TASK 25-23-61-000-801).

SUBTASK 33-23-00-820-001

- (5) Do the following steps to replace the PSU circuit board [44]:

EFFECTIVITY  
LOM ALL

**33-23-00**



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AIRCRAFT MAINTENANCE MANUAL

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)



**CAUTION**

DO NOT TOUCH THE CIRCUIT CARD BEFORE YOU DO THE PROCEDURES FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE CIRCUIT CARD OF THE ELECTRONIC UNIT.

- (a) Before the PSU circuit board [44] is touched, do this task: ESDS Handling for Printed Circuit Board Removal, TASK 20-40-12-000-801.
  - (b) Disconnect the electrical connectors [43] from the PSU circuit board [44].
  - (c) Remove each fastener [42] from the shroud [41].
  - (d) Lift away the shroud [41].
- NOTE: It is not necessary to remove the electrical wires from the shroud.
- (e) Remove the PSU circuit board [44] from the Passenger Service Unit (PSU).
  - (f) If it is necessary, do this task to replace the fuse: Reading Light - PSU Circuit Board Fuse Replacement, TASK 33-23-00-960-803.



**CAUTION**

DO NOT TOUCH THE CIRCUIT CARD BEFORE YOU DO THE PROCEDURES FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE CIRCUIT CARD OF THE ELECTRONIC UNIT.

- (g) Before the new PSU circuit board [44] is touched, do this task: ESDS Handling for Printed Circuit Board Installation, TASK 20-40-12-400-801.
- (h) Install the PSU circuit board [44].
- (i) Install the shroud [41].
- (j) Install each fastener [42] on the shroud [41].
- (k) Connect the electrical connectors [43].

SUBTASK 33-23-00-410-002

- (6) Close the PSU [45].
  - (a) Do this task: Three-piece Adjustable PSU Spacer Panel Installation, TASK 25-23-61-400-802.
  - (b) Do this task: Passenger Service Unit (PSU) - Installation, TASK 25-23-61-400-801.

SUBTASK 33-23-00-860-009



**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.

EFFECTIVITY  
LOM ALL

**33-23-00**



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

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (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.

- (7) Remove the safety tags and close the applicable circuit breakers:

**Power Distribution Panel Number 1, P91**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	1	C00087	PASS READING LIGHTS LEFT
B	2	C00088	PASS READING LIGHTS-LEFT
B	3	C00089	PASS READING LIGHTS-LEFT
B	4	C00090	PASS READING LIGHTS-LEFT
B	5	C00091	PASS READING LIGHTS-LEFT
B	6	C00092	PASS READING LIGHTS-LEFT
B	7	C00773	PASS READING LIGHTS-LEFT
B	8	C01152	PASS READING LIGHTS-LEFT
B	9	C01153	PASS READING LIGHTS-LEFT

**Power Distribution Panel Number 2, P92**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	1	C00094	PASS READING LIGHTS-RIGHT
B	2	C00095	PASS READING LIGHTS-RIGHT
B	3	C00096	PASS READING LIGHTS-RIGHT
B	4	C00097	PASS READING LIGHTS-RIGHT
B	5	C00098	PASS READING LIGHTS-RIGHT
B	6	C00099	PASS READING LIGHTS-RIGHT
B	7	C00774	PASS READING LIGHTS-RIGHT
B	8	C01437	PASS READING LIGHTS-RIGHT
B	9	C01438	PASS READING LIGHTS-RIGHT

SUBTASK 33-23-00-410-006

- (8) Close this access panel:

**Number      Name/Location**

117A      Electronic Equipment Access Door

SUBTASK 33-23-00-860-022

- (9) Remove the safety tags and close the applicable circuit breakers:

**CAPT Electrical System Panel, P18-3**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
------------	------------	---------------	-------------

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-426**

A	8	C01403	PASSENGER CABIN PASS CALL LEFT
B	8	C01404	PASSENGER CABIN PASS CALL RIGHT

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

EFFECTIVITY  
**LOM ALL**

**33-23-00**



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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)**

SUBTASK 33-23-00-710-003

- (10) Do the test of the PSU circuit board [44].
- (a) Set one of the switches for the reading lights to the ON mode.
    - 1) Make sure that the light comes on.
  - (b) Set the switch to the OFF mode.
    - 1) Make sure that the light goes off.
  - (c) At the PSU, set the call switch to the ON mode.
    - 1) Make sure that the call light comes on.
  - (d) Set the call switch to the OFF mode.
    - 1) Make sure that the call light goes off.

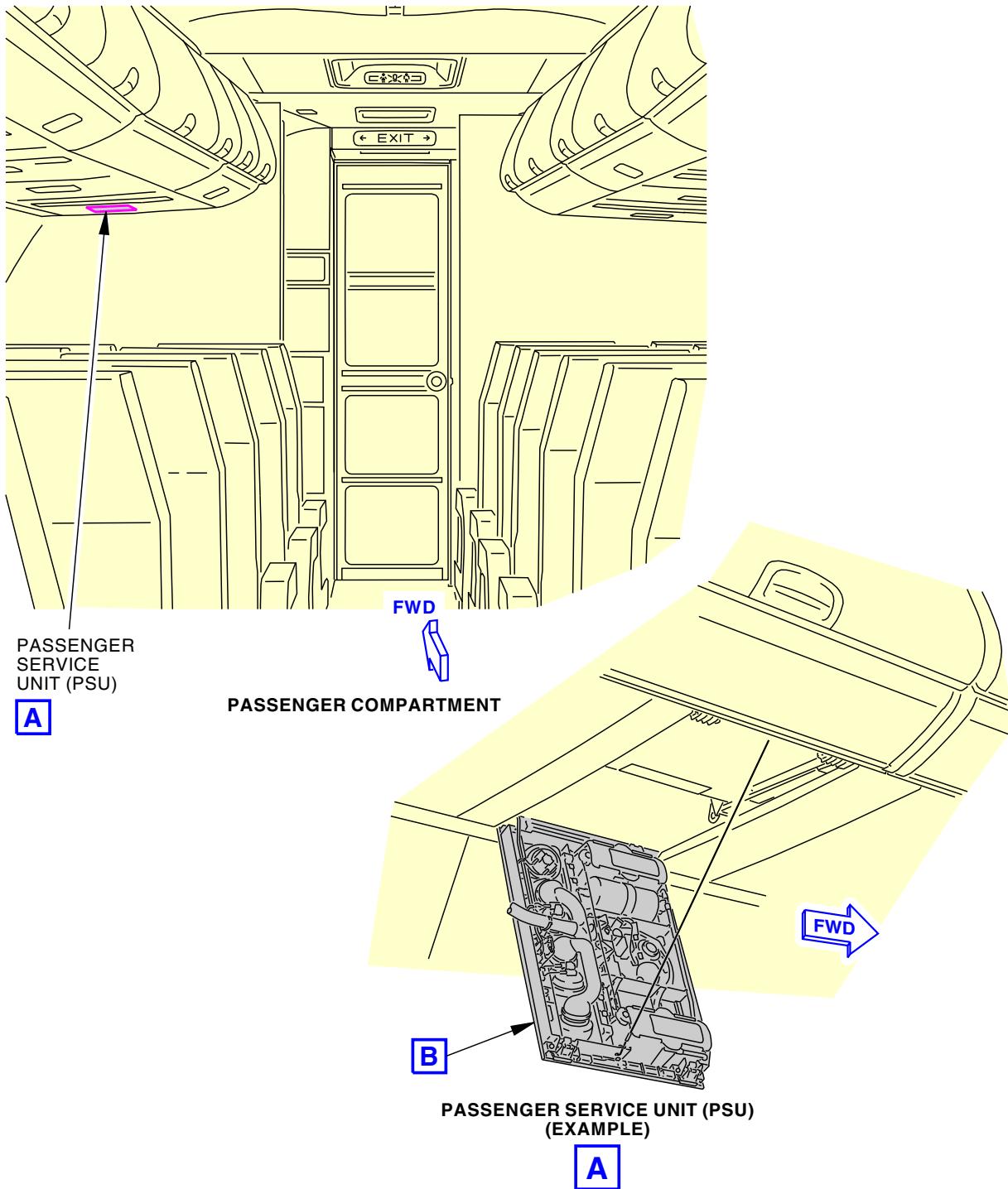
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EFFECTIVITY  
LOM ALL

**33-23-00**



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F64334 S0006576036\_V2

**Reading Light - PSU Circuit Board Replacement**  
Figure 205/33-23-00-990-803 (Sheet 1 of 2)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

**33-23-00**

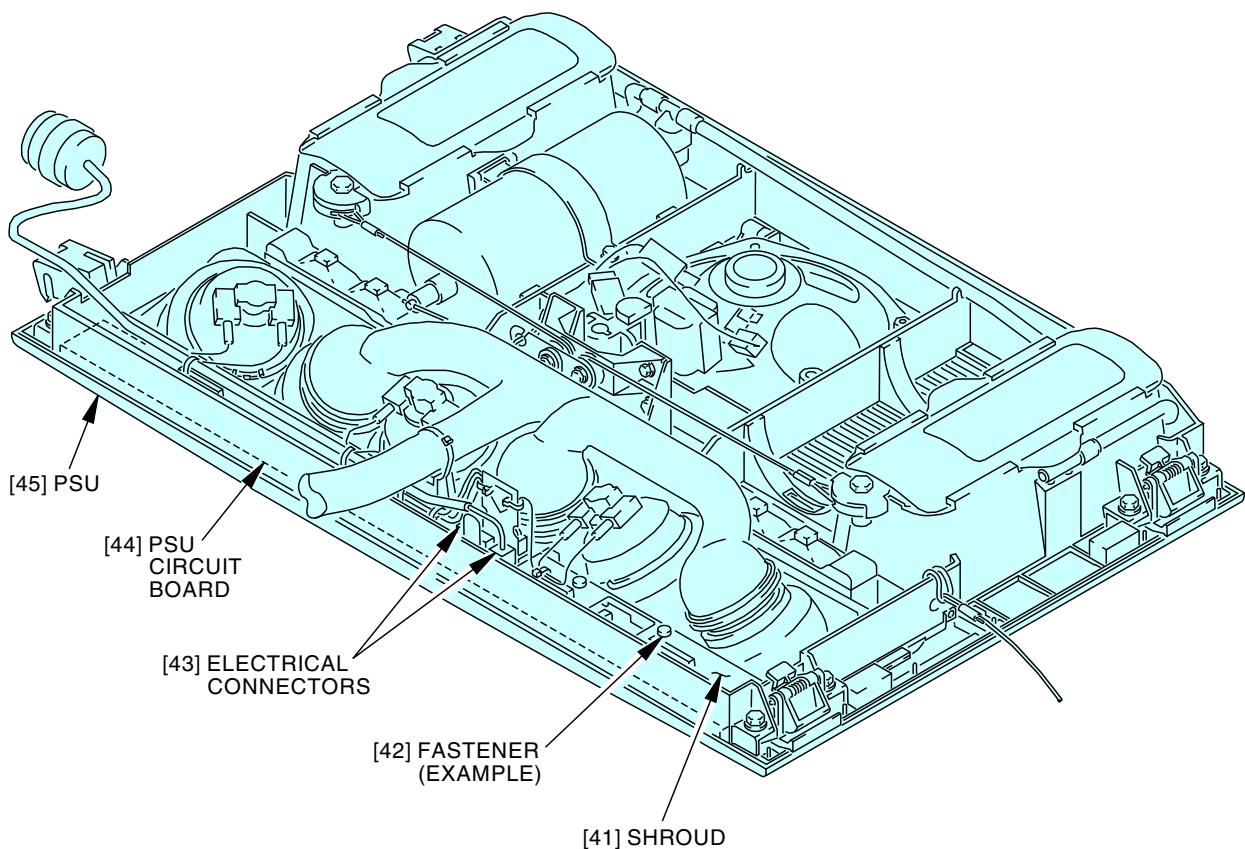
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PASSENGER SERVICE UNIT (PSU)  
(EXAMPLE)

B

F64389 S0006576037\_V2

Reading Light - PSU Circuit Board Replacement  
Figure 205/33-23-00-990-803 (Sheet 2 of 2)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

**33-23-00**

D633A101-LOM

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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)**

**TASK 33-23-00-960-803**

**8. Reading Light - PSU Circuit Board Fuse Replacement**

(Figure 206)

**A. Location Zones**

Zone	Area
200	Upper Half of Fuselage

**B. Replacement of the Reading Light - PSU Circuit Board Fuse**

SUBTASK 33-23-00-820-005

- (1) Do these steps to replace the fuses on the Passenger Service Unit (PSU) circuit board:

Fuse Function	Fuse Number
call select fuse [67]	F1
oxygen actuator fuse [62]	F2
no smoking fuse [63]	F3
fasten seat belt fuse [64]	F4
reading light fuse [66]	F5
muting relay fuse [65]	F6

- (a) Remove the PSU PSU circuit board [44] (TASK 33-23-00-820-801).
- (b) Remove the applicable fuse from the circuit board.
- (c) Install the new fuse on the circuit board.
- (d) Install the PSU PSU circuit board [44] (TASK 33-23-00-820-801).

SUBTASK 33-23-00-710-005

- (2) Do a test of the new fuse for the reading light.
  - (a) Set the applicable switch for the reading lights to the on mode.
    - 1) Make sure that the light comes on.
  - (b) Set the switch to the off mode.
    - 1) Make sure that the light goes off.

SUBTASK 33-23-00-710-006

- (3) Do a test of the new fuse for the call light.
  - (a) At the applicable passenger service unit PSU, set the call switch to the on mode.
    - 1) Make sure that the call light on the PSU comes on.
    - 2) Make sure that the blue call light in the exit sign near the door comes on.

NOTE: A call-select switch on the PSU lets you send the call signal to the forward or the aft exit sign.
  - (b) Set the call switch to the off mode.

SUBTASK 33-23-00-710-007

- (4) Do a test of the new fuse for the fasten seat belt indication.
  - (a) At the pilots overhead panel, P5, set the switch for the seat belts to the on mode.
    - 1) Make sure that the return-to-seat sign comes on.

EFFECTIVITY  
LOM ALL

**33-23-00**

D633A101-LOM



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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)**

- (b) Set the call switch to the off mode.
  - 1) Make sure that the sign goes off.

SUBTASK 33-23-00-710-009

- (5) Make sure that the lamp for NO-SMOKING comes on when electrical power is supplied.

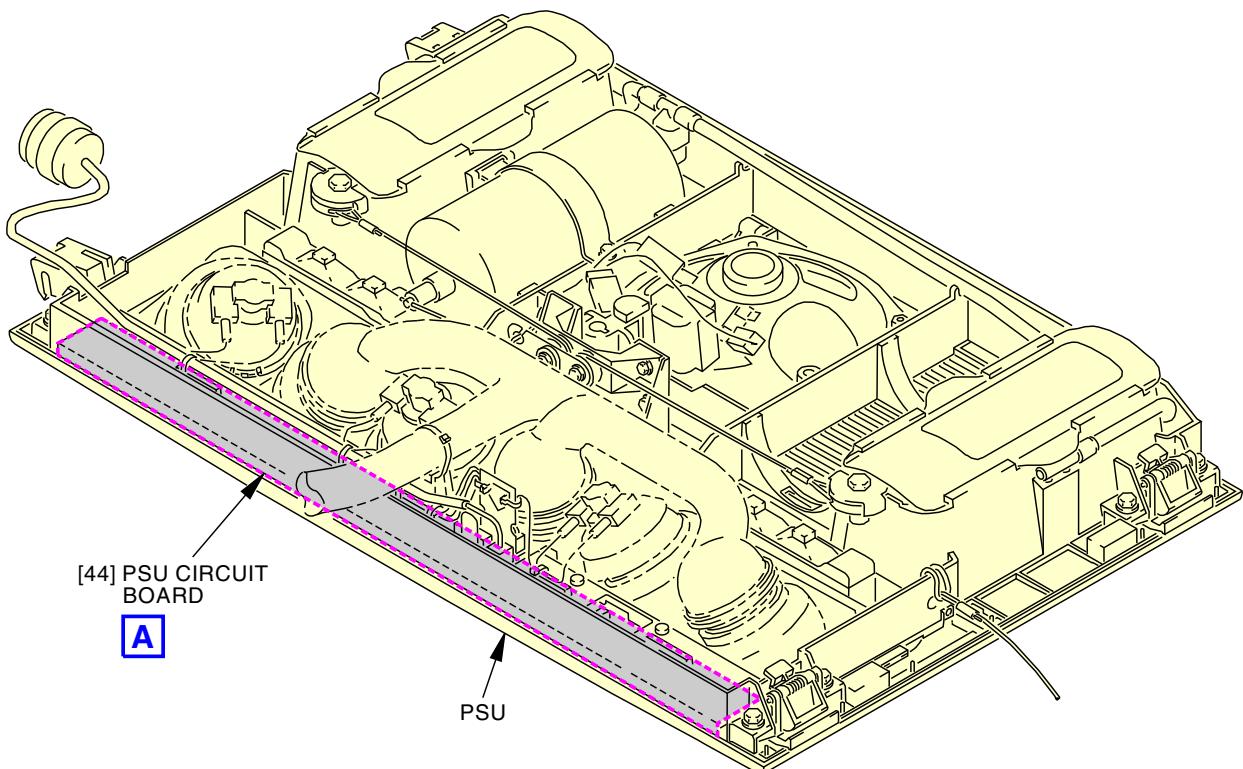
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EFFECTIVITY  
**LOM ALL**

**33-23-00**



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J38206 S0000171253\_V2

**Reading Light - PSU Circuit Board Fuse Replacement**  
**Figure 206/33-23-00-990-804 (Sheet 1 of 2)**

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

**33-23-00**

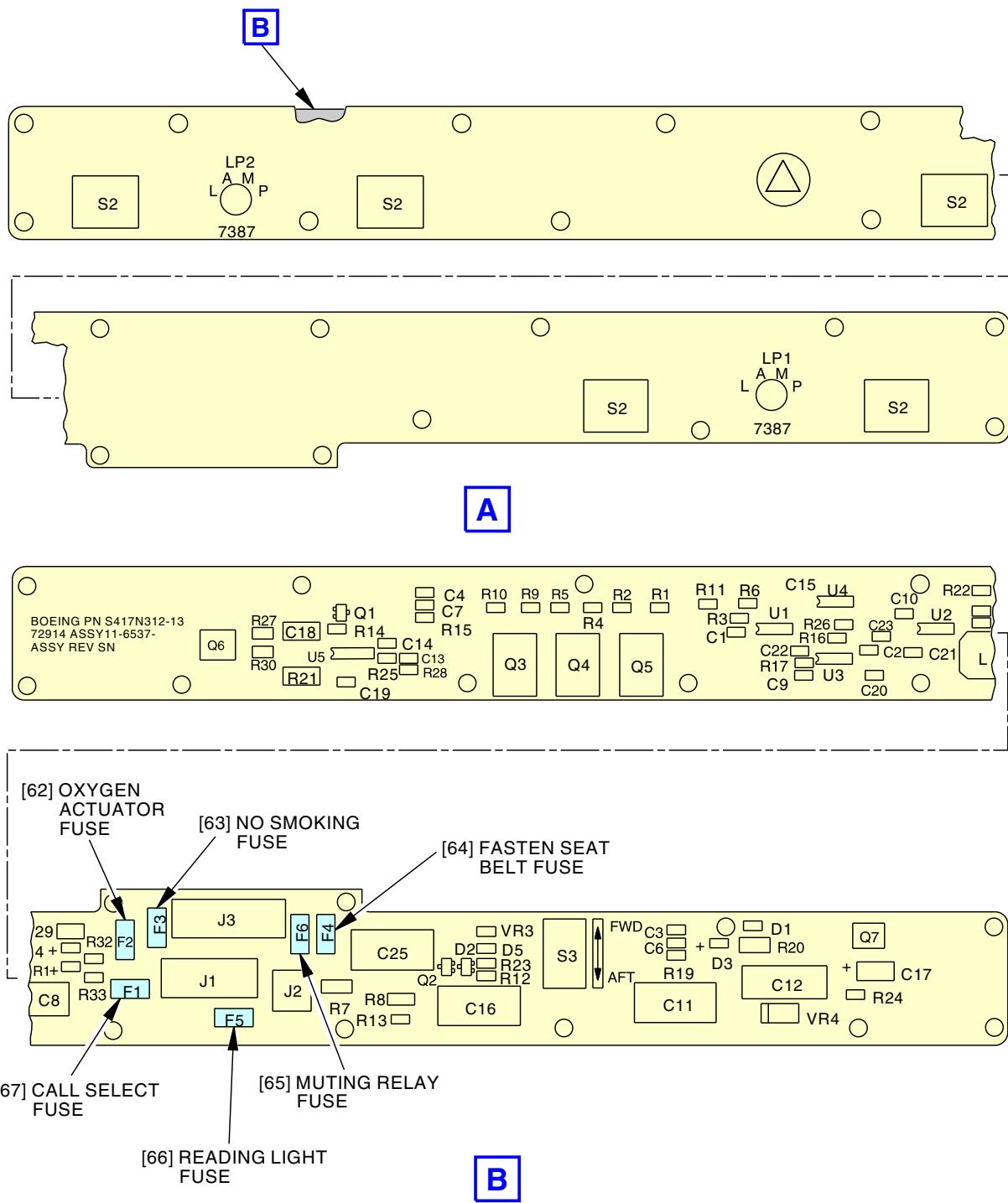
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J38204 S0000171257\_V3

**Reading Light - PSU Circuit Board Fuse Replacement**  
**Figure 206/33-23-00-990-804 (Sheet 2 of 2)**

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

**33-23-00**

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

**INFORMATION SIGNS - MAINTENANCE PRACTICES**

**1. General**

- A. This procedure has these tasks:
  - (1) Information Signs Deactivation.
  - (2) Information Signs Activation.

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

- (3) Information Sign - Lamp Replacement

**LOM ALL**

- (4) Information Sign - Light Assembly Replacement for a No-Smoking/Fasten-Seat-Belt Sign
- (5) Information Sign - Light Assembly Replacement for a Return-to-Seat Sign

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

- (6) Information Sign - Fuse Replacement
  - (a) To replace the fuses for the information signs, do these tasks: Reading Light - PSU Circuit Board Fuse Replacement, TASK 33-23-00-960-803.

**LOM ALL**

- B. This procedure includes the no-smoking, fasten-seat-belt, and return-to-seat signs.  
NOTE: It does not include the lavatory-occupied signs (TASK 33-26-03-960-803).

**LOM 411, 422, 425, 427, 428, 433, 434, 440, 442-445, 450-454, 457**

- C. This procedure does not apply to the painted no-smoking signs. The no-smoking switch will not operate these signs. On some of these airplanes, the switch is connected to the service interphone system and will have a CHIME ONLY placard (Service Interphone System - Operational Test, TASK 23-41-00-710-801).

**LOM 402, 404, 406, 407, 412, 415, 416, 420, 423, 424, 426, 429-432, 437-439, 441, 446, 447, 455, 456, 458-999;  
AIRPLANES WITH ELECTRICALLY ILLUMINATED SIGNS**

- D. The electrically illuminated no-smoking signs have been revised to remain on at all times. The no-smoking switch on the P5 panel will not operate these signs. The switch will have an INOP placard.

**LOM ALL**

**TASK 33-25-00-040-801**

**2. Information Signs - Deactivation**

(Figure 201)

**A. General**

- (1) This procedure removes electrical power from the Information Signs.

**B. Location Zones**

Zone	Area
200	Upper Half of Fuselage

EFFECTIVITY  
**LOM ALL**

**33-25-00**



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C. Procedure

SUBTASK 33-25-00-860-022

- (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, 422-434, 437-447, 450-465			
C	8	C01406	PASS CABIN SIGNS FASTEN SEAT BELT R
C	9	C01405	PASS CABIN SIGNS FASTEN SEAT BELT L
LOM 402, 404, 406, 407, 412, 415, 416, 423, 424, 426, 429-432, 437-439, 441, 446, 447, 455, 456, 458-999			
C	10	C01408	PASS CABIN SIGNS NO SMOKING RIGHT
C	11	C01407	PASS CABIN SIGNS NO SMOKING LEFT
LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-999			
D	11	C00442	PASSENGER CABIN SIGNS PASS SIGN CONT

**LOM ALL**

These circuit breakers are inoperative and should remain open:

**CAPT Electrical System Panel, P18-3**

Row   Col   Number   Name

LOM 411, 422, 425, 427, 428, 433, 434, 440, 442-445, 450-454, 457			
C	10	C01408	PASS CABIN SIGNS NO SMOKING R (INOP)
C	11	C01407	PASS CABIN SIGNS NO SMOKING L (INOP)

**LOM ALL**

D. Information Signs - Tryout

NOTE: This tryout is to make sure the Information Signs are in a zero energy state.

**LOM 402, 404, 406, 407, 412, 415, 416, 420, 423, 424, 426, 429-432, 437-439, 441, 446, 447, 455, 456, 458-999**

SUBTASK 33-25-00-700-002

- (1) Do these steps for the information signs:

(a) At the pilots FWD overhead panel, P5, set the switch for FASTEN BELTS sign to the ON mode.

NOTE: The switch for the no-smoking signs does not operate.

1) Make sure the fasten-seat-belt signs do not come on.

2) Make sure none of these information signs come on at these locations:

a) At the passenger service units (PSU).

b) At the FWD left windscreens.

c) At the Galleys.

d) At the lavatories, RETURN TO SEAT sign.

(b) Set the FASTEN BELTS switch to the OFF mode.

**LOM ALL**

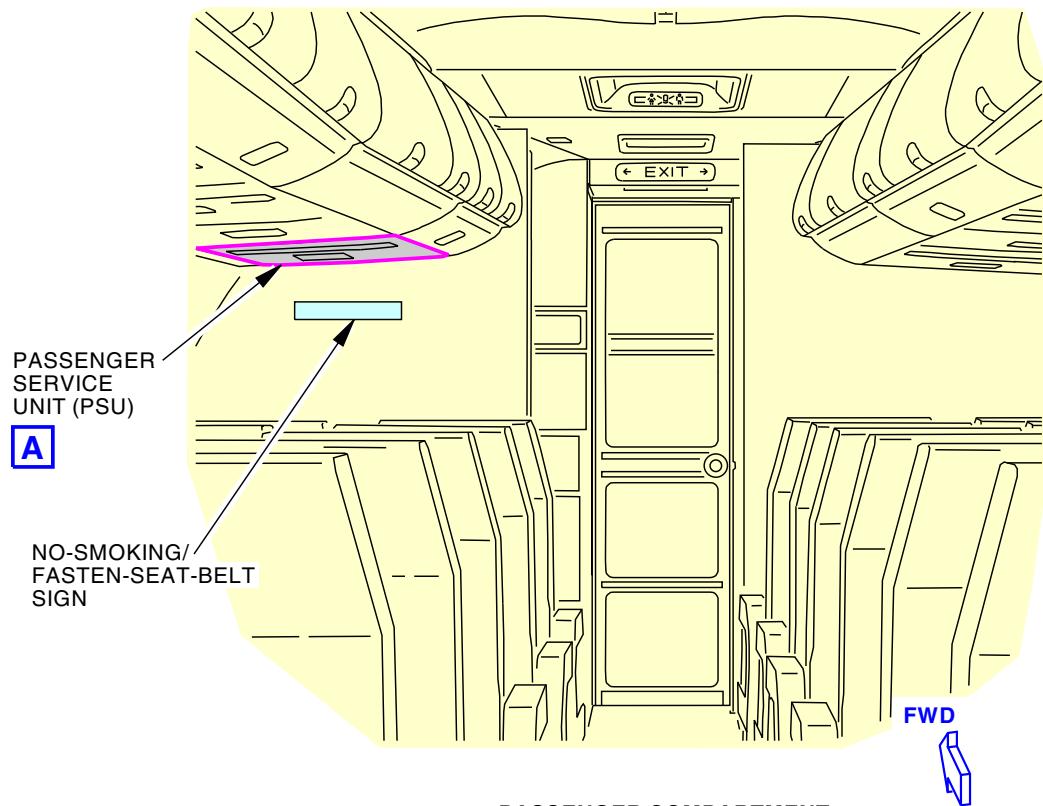
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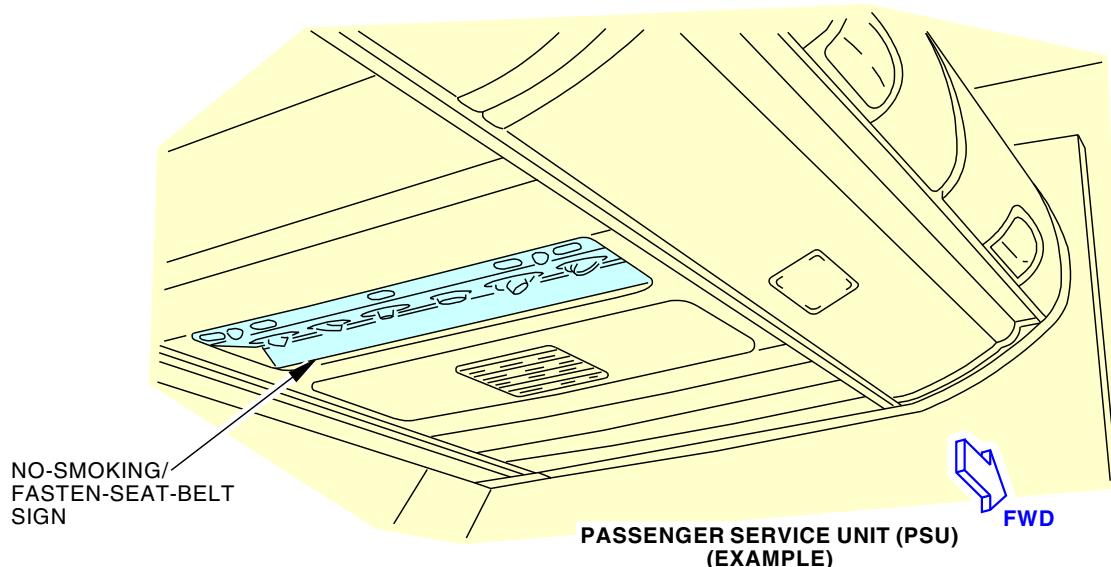
**33-25-00**



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PASSENGER COMPARTMENT



PASSENGER SERVICE UNIT (PSU)  
(EXAMPLE)

A

F87981 S0006576043\_V2

Information Sign - Lamp Replacement  
Figure 201/33-25-00-990-807 (Sheet 1 of 2)

EFFECTIVITY  
LOM ALL

**33-25-00**

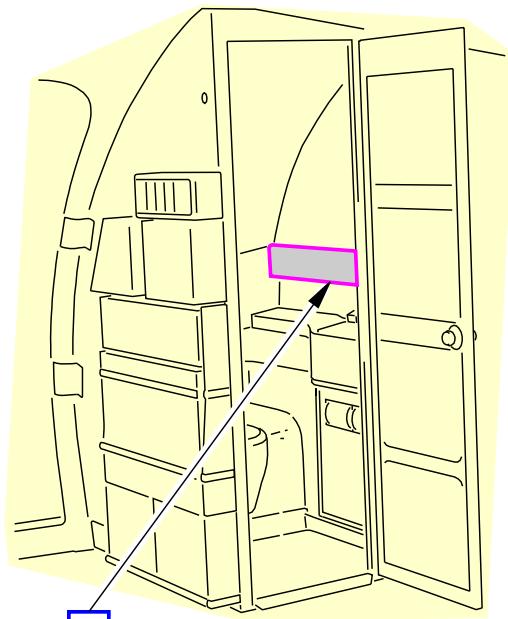
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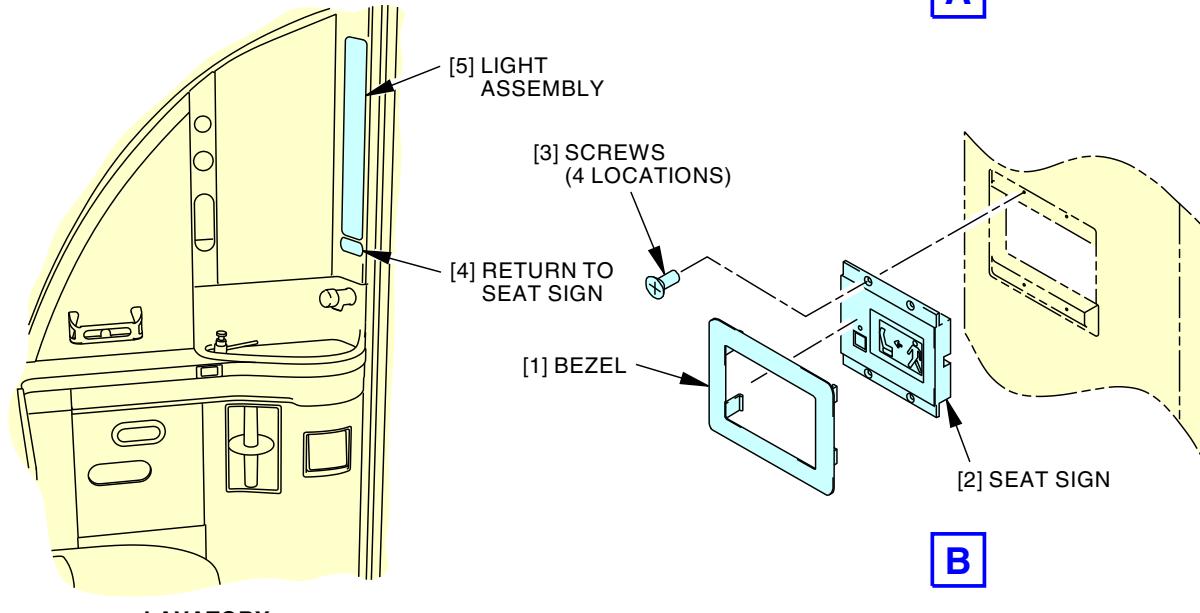
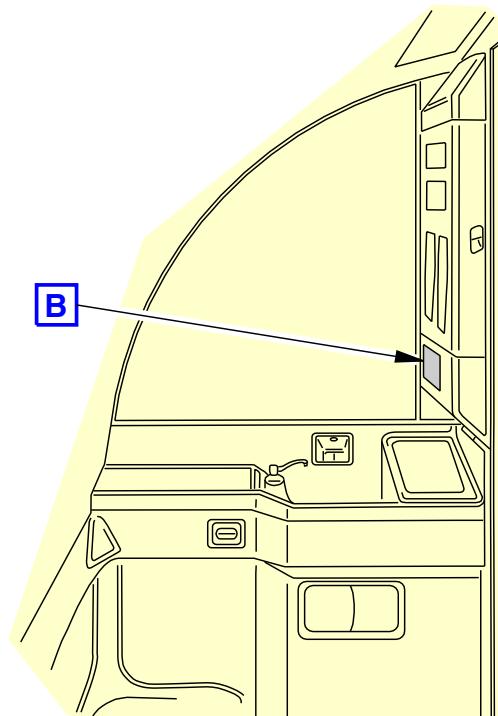
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LAVATORY  
(EXAMPLE)



LAVATORY  
(EXAMPLE)

F88169 S0006576050\_V3

Information Sign - Lamp Replacement  
Figure 201/33-25-00-990-807 (Sheet 2 of 2)

EFFECTIVITY  
LOM ALL

**33-25-00**

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details



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

**TASK 33-25-00-440-801**

**3. Information Signs - Activation**

(Figure 201)

**A. General**

- (1) This procedure adds electrical power to the Information Signs.

**B. Location Zones**

Zone	Area
200	Upper Half of Fuselage

**C. Procedure**

SUBTASK 33-25-00-860-023

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

**CAPT Electrical System Panel, P18-3**

Row	Col	Number	Name
-----	-----	--------	------

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

C 8 C01406 PASS CABIN SIGNS FASTEN SEAT BELT R

C 9 C01405 PASS CABIN SIGNS FASTEN SEAT BELT L

LOM 402, 404, 406, 407, 412, 415, 416, 423, 424, 426, 429-432, 437-439, 441, 446, 447, 455, 456,  
458-999

C 10 C01408 PASS CABIN SIGNS NO SMOKING RIGHT

C 11 C01407 PASS CABIN SIGNS NO SMOKING LEFT

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

D 11 C00442 PASSENGER CABIN SIGNS PASS SIGN CONT

**LOM ALL**

These circuit breakers are inoperative and should remain open:

**CAPT Electrical System Panel, P18-3**

Row	Col	Number	Name
-----	-----	--------	------

LOM 411, 422, 425, 427, 428, 433, 434, 440, 442-445, 450-454, 457

C 10 C01408 PASS CABIN SIGNS NO SMOKING R (INOP)

C 11 C01407 PASS CABIN SIGNS NO SMOKING L (INOP)

———— END OF TASK ————

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

**TASK 33-25-00-960-804**

**4. Information Sign - Lamp Replacement**

(Figure 202)

**A. General**

- (1) The no-smoking switch on the P5 panel will not operate the signs. The switch will have a INOP placard.
- (2) This task does not include the return-to-seat signs in the lavatories. These light assemblies have LEDS; they do not have lamps. When these signs do not operate correctly, replace the light assembly (Information Sign - Light Assembly Replacement for a Return to Seat Sign, TASK 33-25-00-960-803).



**33-25-00**



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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)**

**B. References**

<u>Reference</u>	<u>Title</u>
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
25-23-61-000-801	Passenger Service Unit (PSU) - Removal (P/B 201)
25-23-61-400-801	Passenger Service Unit (PSU) - Installation (P/B 201)
WDM 33-25-11	Wiring Diagram Manual
WDM 33-25-21	Wiring Diagram Manual
WDM 33-25-22	Wiring Diagram Manual
WDM 33-25-31	Wiring Diagram Manual
WDM 33-25-32	Wiring Diagram Manual
WDM 33-25-41	Wiring Diagram Manual

**C. Location Zones**

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

**D. Procedure**

SUBTASK 33-25-00-860-012

- (1) Open the applicable circuit breakers and install the safety tags:

(WDM 33-25-11) (WDM 33-25-21) (WDM 33-25-22) (WDM 33-25-31) (WDM 33-25-32) (WDM 33-25-41)

**CAPT Electrical System Panel, P18-3**

Row    Col    Number    Name

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-426**

C	8	C01406	PASS CABIN SIGNS FASTEN SEAT BELT R
C	9	C01405	PASS CABIN SIGNS FASTEN SEAT BELT L

**LOM 402, 404, 406, 407, 412, 415, 416, 423, 424, 426**

C	10	C01408	PASS CABIN SIGNS NO SMOKING RIGHT
C	11	C01407	PASS CABIN SIGNS NO SMOKING LEFT

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

Open the applicable circuit breakers and install the safety tags:

(WDM 33-25-11) (WDM 33-25-21) (WDM 33-25-22) (WDM 33-25-31) (WDM 33-25-32) (WDM 33-25-41)

**CAPT Electrical System Panel, P18-3**

Row    Col    Number    Name

**LOM 411, 422, 425**

C	10	C01408	PASS CABIN SIGNS NO SMOKING R (INOP)
C	11	C01407	PASS CABIN SIGNS NO SMOKING L (INOP)

EFFECTIVITY  
LOM ALL

**33-25-00**



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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426; AIRPLANES WITH A SIGN INSTALLED IN THE PASSENGER SERVICE UNIT (PSU)**

SUBTASK 33-25-00-960-006



**WARNING**

DO NOT TOUCH THE SOCKET OR THE METAL END OF THE LAMP. WHEN ELECTRICAL POWER IS SUPPLIED TO THE LIGHT, ELECTRICAL SHOCK CAN OCCUR.

- (2) Do one of the following sets of steps to replace the lamp:

NOTE: These steps do not apply if a video monitor is also installed in the PSU.

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426; AIRPLANES WITH A PASSENGER SIGN WITH A SLOT AT THE EDGE OF THE LENS**

- (a) Do the following:

- 1) Carefully remove the lens with a screwdriver.
  - a) Use a flat end screwdriver and put the flat end into the slot at the center of the top edge of the lens.
  - b) Move the screwdriver carefully to the outer edge of the lens.

NOTE: This will release the lens one side at a time.
- 2) Carefully replace the lamp.
- 3) Carefully push the lens back into its position.

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426; AIRPLANES WITH A PASSENGER SIGN WITHOUT A SLOT AT THE EDGE OF THE LENS**

- (b) Do the following:

- 1) Lower the PSU (Passenger Service Unit (PSU) - Removal, TASK 25-23-61-000-801).
- 2) Release the fasteners and lift up the light assembly.
- 3) Pull the lamp through the rear of the sign assembly.
- 4) Replace the lamp.
- 5) Install the light assembly and tighten the fasteners.
- 6) Close the PSU (Passenger Service Unit (PSU) - Installation, TASK 25-23-61-400-801).

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426; AIRPLANES WITH A SIGN INSTALLED ON A WALL**

SUBTASK 33-25-00-960-007



**WARNING**

DO NOT TOUCH THE SOCKET OR THE METAL END OF THE LAMP. WHEN ELECTRICAL POWER IS SUPPLIED TO THE LIGHT, ELECTRICAL SHOCK CAN OCCUR.

- (3) Do these steps to replace the lamp:

- (a) Pull the sign assembly away from the wall.
- (b) Loosen the fasteners and remove the back of the housing.
- (c) Replace the lamp.
- (d) Install the housing and tighten the fasteners.

EFFECTIVITY  
LOM ALL

**33-25-00**



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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426; AIRPLANES WITH A SIGN INSTALLED ON A WALL  
(Continued)**

- (e) Push the sign assembly back into the wall.

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426; AIRPLANES WITH PASSENGER SIGN  
INSTALLED TO PSU WITH VIDEO MONITOR**

SUBTASK 33-25-00-960-014

- (4) Do these steps to replace the lamp:
- Use a flat end screwdriver remove the sign from the PSU.
  - Loosen the fastener on the back of the sign and remove the lamp holder.
  - Replace the lamp(s) on the lamp holder.
  - Put the lamp holder in its position in the sign.
  - Install the fastener.
  - Install the sign on the PSU.

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

SUBTASK 33-25-00-860-013

- (5) Remove the safety tags and close the applicable circuit breakers:

**CAPT Electrical System Panel, P18-3**

Row   Col   Number   Name

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-426**

C	8	C01406	PASS CABIN SIGNS FASTEN SEAT BELT R
C	9	C01405	PASS CABIN SIGNS FASTEN SEAT BELT L

**LOM 402, 404, 406, 407, 412, 415, 416, 423, 424, 426**

C	10	C01408	PASS CABIN SIGNS NO SMOKING RIGHT
C	11	C01407	PASS CABIN SIGNS NO SMOKING LEFT

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

Remove the safety tags and close the applicable circuit breakers:

**CAPT Electrical System Panel, P18-3**

Row   Col   Number   Name

**LOM 411, 422, 425**

C	10	C01408	PASS CABIN SIGNS NO SMOKING R (INOP)
C	11	C01407	PASS CABIN SIGNS NO SMOKING L (INOP)

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

SUBTASK 33-25-00-860-014

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

SUBTASK 33-25-00-710-004

- (7) For a NO-SMOKING sign, make sure the new lamp comes on when electrical power is supplied.

NOTE: The switch for the no-smoking signs does not operate.

SUBTASK 33-25-00-710-005

- (8) For a FASTEN-SEAT-BELT sign, do a test of the new lamp:

- At the pilots overhead panel, P5, set the switch for the seat belts to the on mode.
  - Make sure the lamp comes on.

EFFECTIVITY  
**LOM ALL**

**33-25-00**



**737-600/700/800/900**  
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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)**

- (b) Set the switch to the off mode.
  - 1) Make sure the sign goes off.

SUBTASK 33-25-00-860-015

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

———— END OF TASK ————

**TASK 33-25-00-960-802**

**5. Information Sign - Light Assembly Replacement for a No-Smoking/Fasten-Seat-Belt Sign**  
(Figure 202)

**A. References**

<b>Reference</b>	<b>Title</b>
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
25-23-61-000-801	Passenger Service Unit (PSU) - Removal (P/B 201)
25-23-61-400-801	Passenger Service Unit (PSU) - Installation (P/B 201)
33-23-00-960-803	Reading Light - PSU Circuit Board Fuse Replacement (P/B 201)
WDM 33-25-XX	Wiring Diagram Manual

**B. Location Zones**

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

**C. Procedure**

SUBTASK 33-25-00-960-011

- (1) To replace the fuse for the no-smoking/fasten-seat-belt sign, do this task:Reading Light - PSU Circuit Board Fuse Replacement, TASK 33-23-00-960-803.

NOTE: If the new fuse corrects the problem, you do not need to replace the light assembly.

SUBTASK 33-25-00-860-004

- (2) Open the applicable circuit breakers and install the safety tags:

**CAPT Electrical System Panel, P18-3**

**Row Col Number Name**

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-426**

C	8	C01406	PASS CABIN SIGNS FASTEN SEAT BELT R
C	9	C01405	PASS CABIN SIGNS FASTEN SEAT BELT L

**LOM 402, 404, 406, 407, 412, 415, 416, 423, 424, 426**

C	10	C01408	PASS CABIN SIGNS NO SMOKING RIGHT
C	11	C01407	PASS CABIN SIGNS NO SMOKING LEFT

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

Open the applicable circuit breakers and install the safety tags:

**CAPT Electrical System Panel, P18-3**

**Row Col Number Name**

**LOM 411, 422, 425**

C	10	C01408	PASS CABIN SIGNS NO SMOKING R (INOP)
---	----	--------	--------------------------------------

EFFECTIVITY  
LOM ALL

**33-25-00**



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LOM 411, 422, 425 (Continued)

(Continued)

**CAPT Electrical System Panel, P18-3**

Row    Col    Number    Name

C	11	C01407	PASS CABIN SIGNS NO SMOKING L (INOP)
---	----	--------	--------------------------------------

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

(WDM 33-25-XX)

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426; AIRPLANES WITH A SIGN INSTALLED IN THE PASSENGER SERVICE UNIT (PSU)**

SUBTASK 33-25-00-960-003



**WARNING**

DO NOT TOUCH THE SOCKET OR THE METAL END OF THE LAMP. WHEN ELECTRICAL POWER IS SUPPLIED TO THE LIGHT, ELECTRICAL SHOCK CAN OCCUR.



**CAUTION**

MAKE SURE THAT THE RELEASE PIN FOR THE CHEMICAL OXYGEN GENERATOR STAYS ENGAGED IN THE FIRING PIN. IF THE CHEMICAL OXYGEN GENERATOR ACCIDENTALLY OPERATES, IT IS MANDATORY THAT YOU REPLACE IT.

- (3) Do these steps to replace the light assembly:

NOTE: These steps do not apply if a video monitor is also installed in the PSU. A different sign is used. Those instructions are given after these steps.

- (a) Lower the PSU (Passenger Service Unit (PSU) - Removal, TASK 25-23-61-000-801).
- (b) Disconnect the electrical connectors [22].
- (c) Loosen the fasteners [23] from the light assembly.
- (d) Replace the light assembly [21].
- (e) Tighten the fasteners [23].
- (f) Connect the electrical connectors [22].
- (g) Close the PSU (Passenger Service Unit (PSU) - Installation, TASK 25-23-61-400-801).

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426; AIRPLANES WITH A SIGN INSTALLED IN THE PASSENGER SERVICE UNIT (PSU ) WITH A VIDEO MONITOR**

SUBTASK 33-25-00-960-008



**WARNING**

DO NOT TOUCH THE SOCKET OR THE METAL END OF THE LAMP. WHEN ELECTRICAL POWER IS SUPPLIED TO THE LIGHT, ELECTRICAL SHOCK CAN OCCUR.

- (4) Do these steps to replace the light assembly:

- (a) Use the slot on the side of the lens to remove it from the PSU.

NOTE: The light assembly will drop down with the lens.

- (b) Disconnect the electrical wires from the light assembly.
- (c) Lift the light assembly from the lens.
- (d) Put the new light assembly against the lens.

EFFECTIVITY  
LOM ALL

**33-25-00**



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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426; AIRPLANES WITH A SIGN INSTALLED IN THE PASSENGER SERVICE UNIT (PSU) WITH A VIDEO MONITOR (Continued)**

- (e) Connect the electrical wires to the light assembly.
- (f) Put the lens and light assembly in the PSU and push in firmly into its position.

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426; AIRPLANES WITH A SIGN INSTALLED ON A WALL**

SUBTASK 33-25-00-960-004



**DO NOT TOUCH THE SOCKET OR THE METAL END OF THE LAMP. WHEN ELECTRICAL POWER IS SUPPLIED TO THE LIGHT, ELECTRICAL SHOCK CAN OCCUR.**

- (5) Do these steps to replace the light assembly:

- (a) Pull the sign away from the wall.
- (b) Disconnect the electrical wires behind the light assembly.
- (c) Replace the light assembly.
  - 1) Make sure lamps are installed in the new light assembly.
- (d) Connect the electrical wires to the new light assembly.
- (e) Push the sign back into the wall.

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

SUBTASK 33-25-00-860-005

- (6) Remove the safety tags and close the applicable circuit breakers:

**CAPT Electrical System Panel, P18-3**

**Row    Col    Number    Name**

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-426**

C	8	C01406	PASS CABIN SIGNS FASTEN SEAT BELT R
C	9	C01405	PASS CABIN SIGNS FASTEN SEAT BELT L

**LOM 402, 404, 406, 407, 412, 415, 416, 423, 424, 426**

C	10	C01408	PASS CABIN SIGNS NO SMOKING RIGHT
C	11	C01407	PASS CABIN SIGNS NO SMOKING LEFT

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

Remove the safety tags and close the applicable circuit breakers:

**CAPT Electrical System Panel, P18-3**

**Row    Col    Number    Name**

**LOM 411, 422, 425**

C	10	C01408	PASS CABIN SIGNS NO SMOKING R (INOP)
C	11	C01407	PASS CABIN SIGNS NO SMOKING L (INOP)

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

SUBTASK 33-25-00-860-006

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

EFFECTIVITY  
LOM ALL

**33-25-00**



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**LOM 402, 404, 406, 407, 412, 415, 416, 420, 423, 424, 426; AIRPLANES WITH NO-SMOKING SIGNS  
PERMANENTLY ILLUMINATED**

SUBTASK 33-25-00-710-006

(8) Do this test of the new light assembly:

- (a) Make sure the no-smoking symbol comes on when electrical power is supplied.
- (b) At the pilots overhead panel, P5, set the switch for the seat belts to the on mode.  
NOTE: The switch for the no-smoking signs does not operate.
  - 1) Make sure the fasten-seat-belt symbol comes on.
- (c) Set the fasten-seat-belt switch to the off mode.
  - 1) Make sure the fasten-seat-belt symbol goes off.
- (d) Make sure the no-smoking symbol stays on.

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

SUBTASK 33-25-00-860-007

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

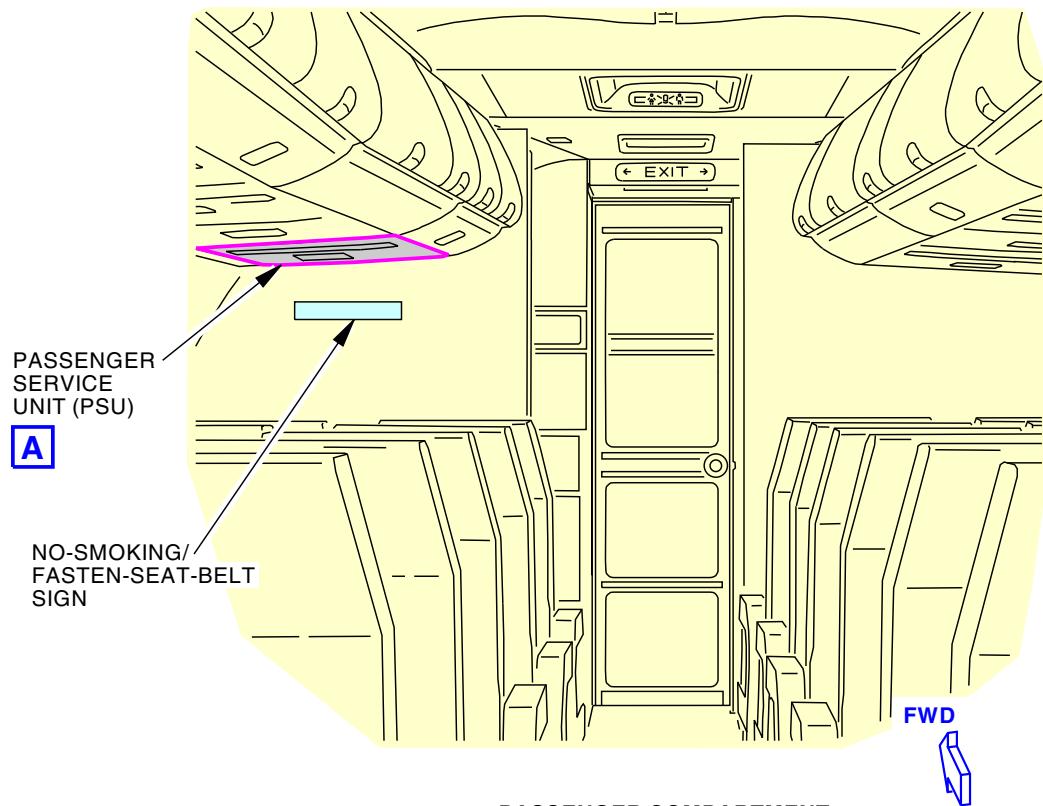
———— END OF TASK ————

EFFECTIVITY  
LOM ALL

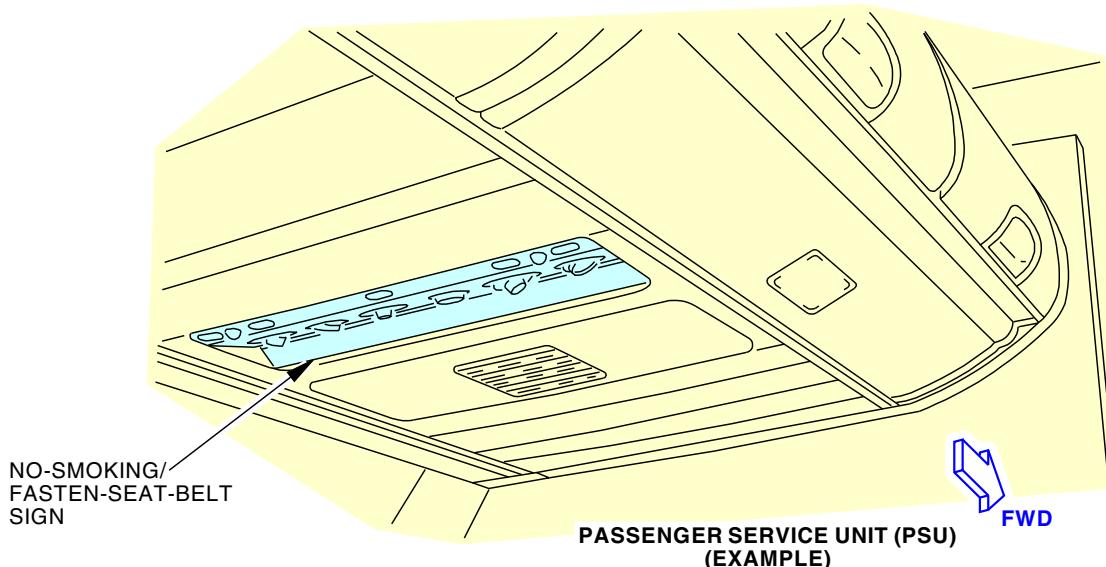
**33-25-00**



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PASSENGER COMPARTMENT



PASSENGER SERVICE UNIT (PSU)  
(EXAMPLE)

A

F87981 S0006576043\_V2

Information Sign - Lamp Replacement  
Figure 202/33-25-00-990-805

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

**33-25-00**

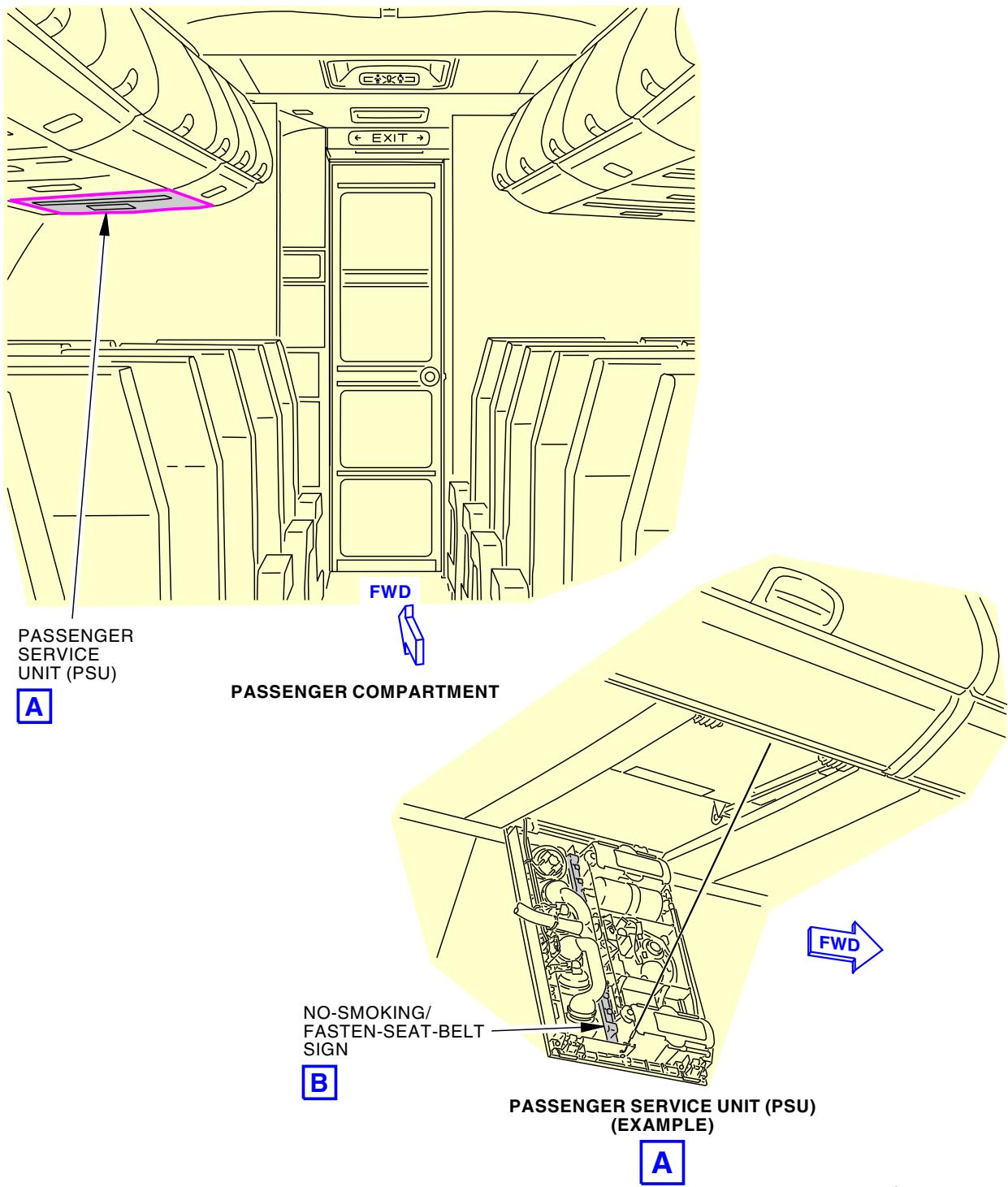
D633A101-LOM

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F88000 S0006576047\_V2

**Information Sign, No-Smoking/Fasten-Seat-Belt Sign - Light Assembly Replacement**  
Figure 203/33-25-00-990-802 (Sheet 1 of 2)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

**33-25-00**

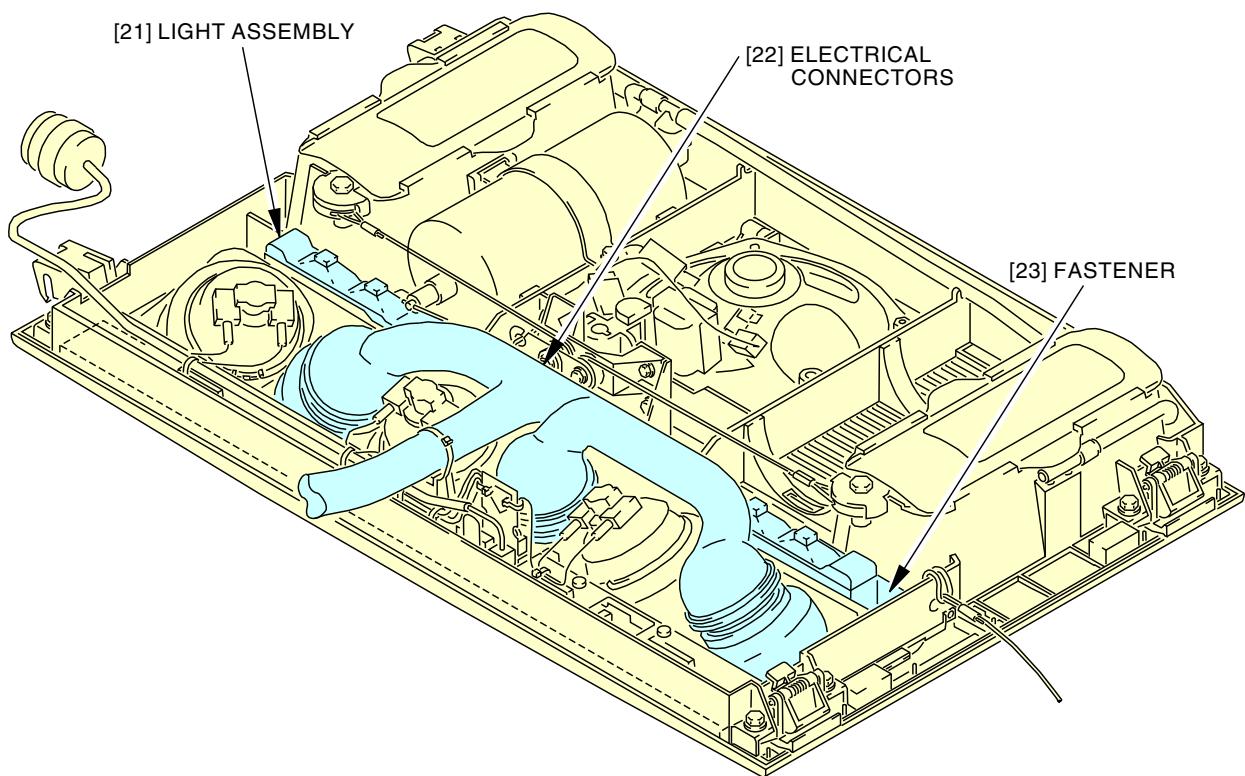
D633A101-LOM

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NO-SMOKING/FASTEN-SEAT-BELT SIGN  
(EXAMPLE)

B

F88019 S0006576048\_V2

Information Sign, No-Smoking/Fasten-Seat-Belt Sign - Light Assembly Replacement  
Figure 203/33-25-00-990-802 (Sheet 2 of 2)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

**33-25-00**

D633A101-LOM

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LOM 427-434, 437-447, 450-999

**TASK 33-25-00-960-807**

**6. Information Sign - Light Assembly Replacement for a No-Smoking/Fasten-Seat-Belt Sign**  
(Figure 204)

**A. References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
25-23-61-000-804	Passenger Service Unit - Removal (P/B 401)
25-23-61-400-804	Passenger Service Unit - Installation (P/B 401)

**B. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
41	Light assembly	33-25-00-12A-020	LOM 427-434, 437-442, 445-447, 450, 451
		33-25-00-12C-020	LOM 461-464
		33-25-00-12D-050	LOM 427, 428, 433, 434, 440, 442, 445, 450, 453, 454, 457
		33-25-00-12M-050	LOM 443, 444, 451, 452
		33-25-00-12N-050	LOM 466-999
		33-25-00-13-050	LOM 429-432, 437-439, 441, 446, 447, 455, 456, 458-460, 465

**C. Location Zones**

Zone	Area
200	Upper Half of Fuselage

**D. Prepare for the Replacement**

SUBTASK 33-25-00-860-018

- (1) Open the applicable circuit breakers and install the safety tags:

**CAPT Electrical System Panel, P18-3**

Row   Col   Number   Name

**LOM 427-434, 437-447, 450-465**

C      8      C01406      PASS CABIN SIGNS FASTEN SEAT BELT R

**LOM 466-999**

C      8      C04072      PASS CABIN SIGNS FASTEN SEAT BELT R

**LOM 427-434, 437-447, 450-465**

C      9      C01405      PASS CABIN SIGNS FASTEN SEAT BELT L

**LOM 466-999**

C      9      C04071      PASS CABIN SIGNS FASTEN SEAT BELT L

**LOM 429-432, 437-439, 441, 446, 447, 455, 456, 458-999**

C      10     C01408      PASS CABIN SIGNS NO SMOKING RIGHT

C      11     C01407      PASS CABIN SIGNS NO SMOKING LEFT

EFFECTIVITY
LOM ALL

**33-25-00**



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**LOM 429-432, 437-439, 441, 446, 447, 455, 456, 458-999 (Continued)**

(Continued)

**CAPT Electrical System Panel, P18-3**

Row   Col   Number   Name

**LOM 427-434, 437-447, 450-999**

Open the applicable circuit breakers and install the safety tags:

**CAPT Electrical System Panel, P18-3**

Row   Col   Number   Name

**LOM 427, 428, 433, 434, 440, 442-445, 450-454, 457**

C	10	C01408	PASS CABIN SIGNS NO SMOKING R (INOP)
C	11	C01407	PASS CABIN SIGNS NO SMOKING L (INOP)

**LOM 427-434, 437-447, 450-999**

**E. Light Assembly Replacement**

**LOM 427-434, 437-447, 450-999; AIRPLANES WITH A SIGN INSTALLED IN THE PASSENGER SERVICE UNIT (PSU)**

SUBTASK 33-25-00-960-012

- (1) Do these steps to replace the light assembly:
  - (a) Lower the PSU (TASK 25-23-61-000-804).
  - (b) Disconnect the electrical connectors [42].
  - (c) Pull the light assembly [41] from the clips that attach it to the PSU.
  - (d) Put the new light assembly [41] in its position.
  - (e) Push the light assembly [41] until the clips latch it to the PSU.
  - (f) Connect the electrical connectors [42].
  - (g) Close the PSU (TASK 25-23-61-400-804).

**LOM 427-434, 437-447, 450-999; AIRPLANES WITH A SIGN INSTALLED ON A WALL OR STOWAGE BIN END CAP.**

SUBTASK 33-25-00-960-013

**LOM 432**



**WARNING** DO NOT TOUCH THE SOCKET OR THE METAL END OF THE LAMP. WHEN ELECTRICAL POWER IS SUPPLIED TO THE LAMP, ELECTRICAL SHOCK CAN OCCUR. THIS CAN CAUSE INJURIES TO PERSONNEL.

- (2) If necessary, do these steps to replace the lamp:
  - (a) Pull the sign assembly away from the wall.
  - (b) Loosen the fasteners and remove the back of the housing.
  - (c) Replace the lamp.
  - (d) Install the housing and tighten the fasteners.
  - (e) Push the sign assembly back into the wall.

**LOM 427-434, 437-447, 450-999; AIRPLANES WITH A SIGN INSTALLED ON A WALL OR STOWAGE BIN END CAP.**

- (3) Do these steps to replace the light assembly:



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**LOM 432**

NOTE: It is not required to replace the light assembly if the lamp replacement was a satisfactory solution.

**LOM 427-434, 437-447, 450-999; AIRPLANES WITH A SIGN INSTALLED ON A WALL OR STOWAGE BIN END CAP.**

- (a) Pull the sign away from the wall.
- (b) Disconnect the electrical wires behind the light assembly.
- (c) Replace the light assembly.
- (d) Connect the electrical wires to the new light assembly.
- (e) Push the sign back into the wall.

**LOM 427-434, 437-447, 450-999**

SUBTASK 33-25-00-860-019

- (4) Remove the safety tags and close the applicable circuit breakers:

**CAPT Electrical System Panel, P18-3**

Row   Col   Number   Name

**LOM 427-434, 437-447, 450-465**

C      8      C01406      PASS CABIN SIGNS FASTEN SEAT BELT R

**LOM 466-999**

C      8      C04072      PASS CABIN SIGNS FASTEN SEAT BELT R

**LOM 427-434, 437-447, 450-465**

C      9      C01405      PASS CABIN SIGNS FASTEN SEAT BELT L

**LOM 466-999**

C      9      C04071      PASS CABIN SIGNS FASTEN SEAT BELT L

**LOM 429-432, 437-439, 441, 446, 447, 455, 456, 458-999**

C      10     C01408     PASS CABIN SIGNS NO SMOKING RIGHT

C      11     C01407     PASS CABIN SIGNS NO SMOKING LEFT

**LOM 427-434, 437-447, 450-999**

Remove the safety tags and close the applicable circuit breakers:

**CAPT Electrical System Panel, P18-3**

Row   Col   Number   Name

**LOM 427, 428, 433, 434, 440, 442-445, 450-454, 457**

C      10     C01408     PASS CABIN SIGNS NO SMOKING R (INOP)

C      11     C01407     PASS CABIN SIGNS NO SMOKING L (INOP)

**LOM 427-434, 437-447, 450-999**

**F. Replacement Test**

SUBTASK 33-25-00-860-020

- (1) Make sure that electrical power is supplied to the airplane (TASK 24-22-00-860-811).

SUBTASK 33-25-00-710-009

- (2) Do this test of the new light assembly:

**LOM 429-432, 437-439, 441, 446, 447, 455, 456, 458-999; AIRPLANES WITH NO-SMOKING SIGNS PERMANENTLY ILLUMINATED**

- (a) Make sure the no-smoking symbol comes on when electrical power is supplied.

**LOM 427-434, 437-447, 450-999**

EFFECTIVITY
LOM ALL

**33-25-00**



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**LOM 427-434, 437-447, 450-999 (Continued)**

- (b) At the pilots overhead panel, P5, set the switch for the seat belts to the on mode.

**LOM 429-432, 437-439, 441, 446, 447, 455, 456, 458-999; AIRPLANES WITH NO-SMOKING SIGNS  
PERMANENTLY ILLUMINATED**

NOTE: The switch for the no-smoking signs does not operate.

**LOM 427-434, 437-447, 450-999**

- 1) Make sure the fasten-seat-belt symbol comes on.

- (c) Set the fasten-seat-belt switch to the off mode.

- 1) Make sure the fasten-seat-belt symbol goes off.

**LOM 429-432, 437-439, 441, 446, 447, 455, 456, 458-999; AIRPLANES WITH NO-SMOKING SIGNS  
PERMANENTLY ILLUMINATED**

- (d) Make sure the no-smoking symbol stays on.

**LOM 427-434, 437-447, 450-999**

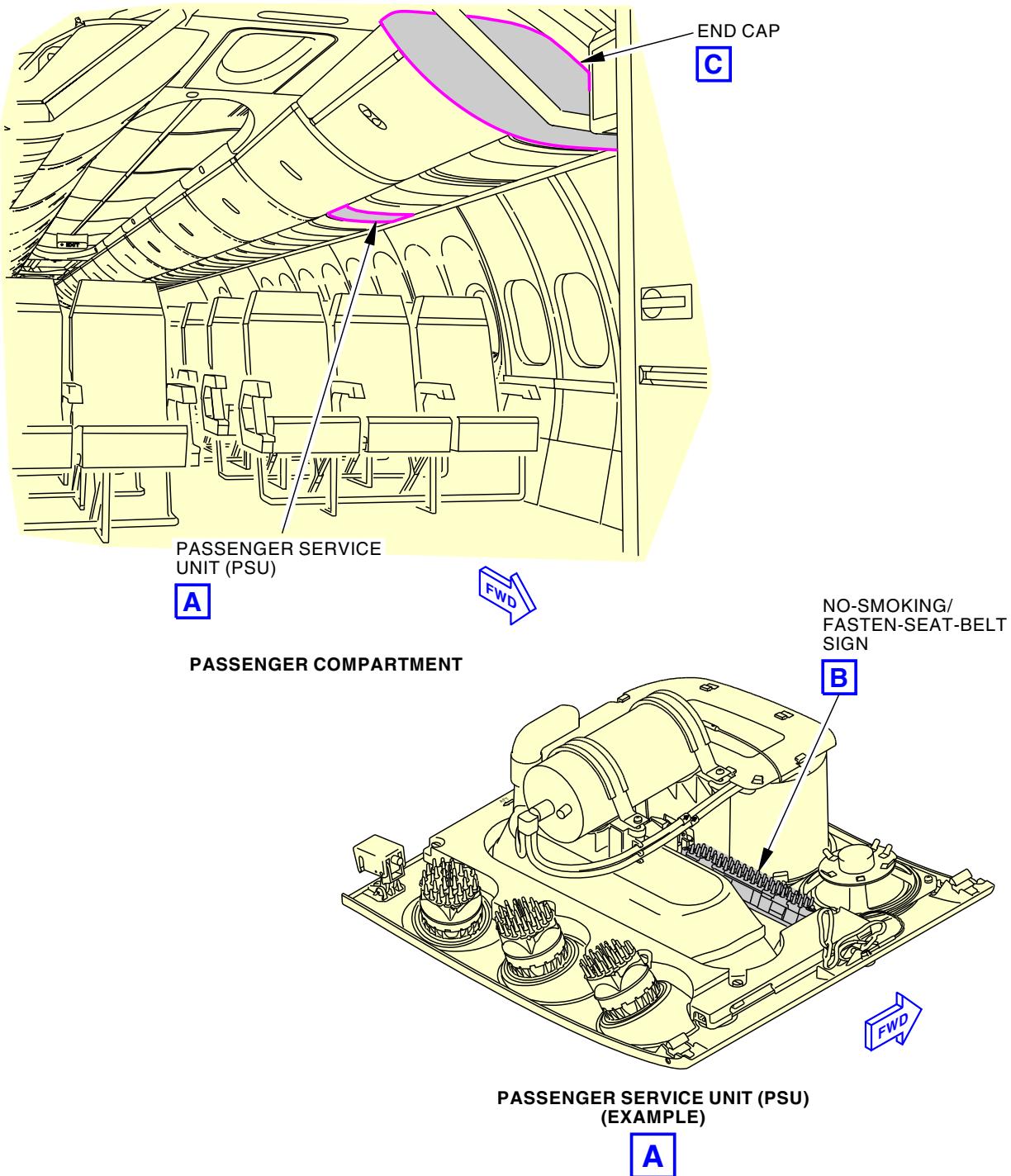
———— END OF TASK ————

EFFECTIVITY  
**LOM ALL**

**33-25-00**



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2071448 S0000431504\_V3

Information Sign, No-Smoking/Fasten-Seat-Belt Sign - Light Assembly Replacement  
Figure 204/33-25-00-990-806 (Sheet 1 of 3)

EFFECTIVITY  
LOM 427-434, 437-447, 450-999

**33-25-00**

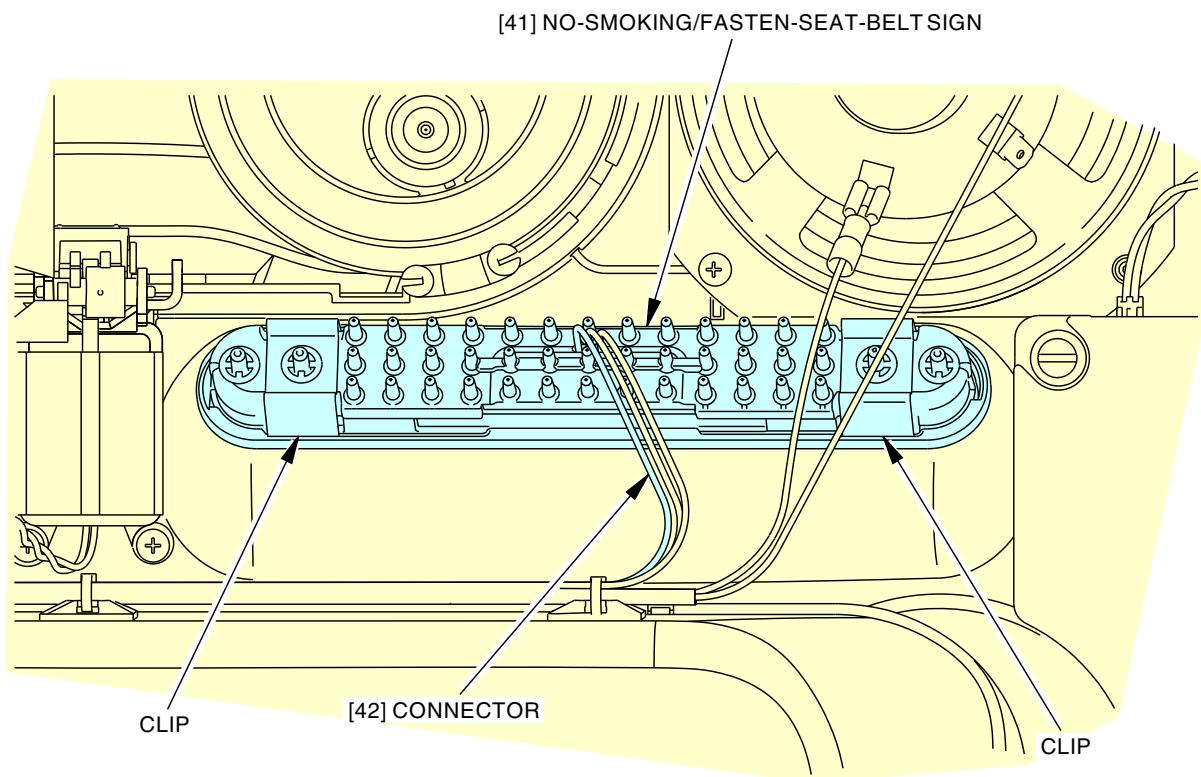
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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NO-SMOKING/FASTEN-SEAT-BELT SIGN  
(EXAMPLE)

B

2071452 S0000431505\_V2

Information Sign, No-Smoking/Fasten-Seat-Belt Sign - Light Assembly Replacement  
Figure 204/33-25-00-990-806 (Sheet 2 of 3)

EFFECTIVITY  
LOM 427-434, 437-447, 450-999

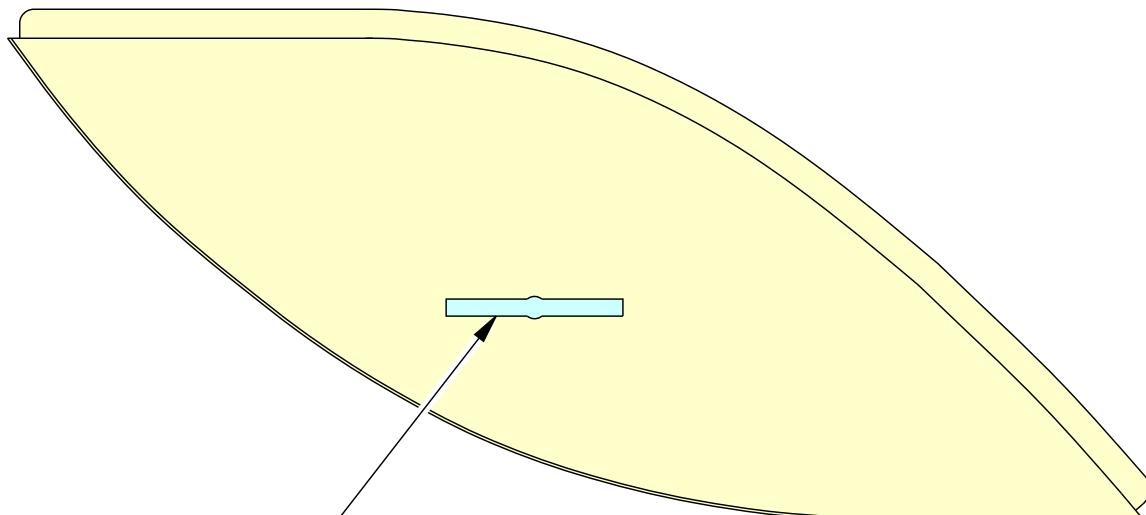
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**BOEING**  
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END CAP  
**C**

2452489 S0000569915\_V1

**Information Sign, No-Smoking/Fasten-Seat-Belt Sign - Light Assembly Replacement**  
**Figure 204/33-25-00-990-806 (Sheet 3 of 3)**

EFFECTIVITY  
LOM 427-434, 437-447, 450-999

**33-25-00**

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**LOM 427-434, 437-447, 450-999 (Continued)**

**TASK 33-25-00-960-808**

**7. Information Sign - Lamp Replacement for a No-Smoking/Fasten-Seat-Belt Sign**  
(Figure 204)

**A. General**

- (1) This task provides instructions to remove the lamps on the No-Smoking/Fasten-Seat-Belt signs in the Boeing Sky Interior.

**NOTE:** To replace the No-Smoking/Fasten-Seat-Belt sign lights installed in the Passenger Service Unit (PSU), the light assembly must be replaced. Please refer to: Information Sign - Light Assembly Replacement for a No-Smoking/Fasten-Seat-Belt Sign, TASK 33-25-00-960-807

**B. References**

<b>Reference</b>	<b>Title</b>
24-22-00-860-811	Supply Electrical Power (P/B 201)

**C. Location Zones**

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

**D. Prepare for the Replacement**

**SUBTASK 33-25-00-860-024**

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

**CAPT Electrical System Panel, P18-3**

**Row Col Number Name**

**LOM 427-434, 437-447, 450-465**

C 8 C01406 PASS CABIN SIGNS FASTEN SEAT BELT R

**LOM 466-999**

C 8 C04072 PASS CABIN SIGNS FASTEN SEAT BELT R

**LOM 427-434, 437-447, 450-465**

C 9 C01405 PASS CABIN SIGNS FASTEN SEAT BELT L

**LOM 466-999**

C 9 C04071 PASS CABIN SIGNS FASTEN SEAT BELT L

**LOM 429-432, 437-439, 441, 446, 447, 455, 456, 458-999**

C 10 C01408 PASS CABIN SIGNS NO SMOKING RIGHT

C 11 C01407 PASS CABIN SIGNS NO SMOKING LEFT

**LOM 427-434, 437-447, 450-999**

These circuit breakers are inoperative and should remain open:

**CAPT Electrical System Panel, P18-3**

**Row Col Number Name**

**LOM 427, 428, 433, 434, 440, 442-445, 450-454, 457**

C 10 C01408 PASS CABIN SIGNS NO SMOKING R (INOP)

C 11 C01407 PASS CABIN SIGNS NO SMOKING L (INOP)

EFFECTIVITY  
LOM ALL

**33-25-00**



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**LOM 427-434, 437-447, 450-999; AIRPLANES WITH A SIGN INSTALLED ON A WALL OR STOWAGE BIN END CAP.**

**E. Lamp Replacement**

SUBTASK 33-25-00-960-015



**WARNING** DO NOT TOUCH THE SOCKET OR THE METAL END OF THE LAMP. WHEN ELECTRICAL POWER IS SUPPLIED TO THE LAMP, ELECTRICAL SHOCK CAN OCCUR. THIS CAN CAUSE INJURIES TO PERSONNEL.

- (1) Do these steps to replace the lamp:
  - (a) Pull the sign away from the wall.
  - (b) Disconnect the electrical wires behind the light assembly.
  - (c) Remove the two screws that attach the light assembly to the wall.
  - (d) Pull out the light assembly.
  - (e) Replace the lamps.  
*NOTE:* The bulbs slide to the side when removed.
  - (f) Put the light assembly back into the wall.
  - (g) Tighten the two screws.
  - (h) Connect the electrical wires to the light assembly.
  - (i) Push the sign back into the wall.

SUBTASK 33-25-00-860-028

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

**CAPT Electrical System Panel, P18-3**

Row   Col   Number   Name

**LOM 427-434, 437-447, 450-465**

C        8      C01406     PASS CABIN SIGNS FASTEN SEAT BELT R

**LOM 466-999**

C        8      C04072     PASS CABIN SIGNS FASTEN SEAT BELT R

**LOM 427-434, 437-447, 450-465**

C        9      C01405     PASS CABIN SIGNS FASTEN SEAT BELT L

**LOM 466-999**

C        9      C04071     PASS CABIN SIGNS FASTEN SEAT BELT L

**LOM 429-432, 437-439, 441, 446, 447, 455, 456, 458-999**

C        10     C01408     PASS CABIN SIGNS NO SMOKING RIGHT

C        11     C01407     PASS CABIN SIGNS NO SMOKING LEFT

**LOM 427-434, 437-447, 450-999; AIRPLANES WITH A SIGN INSTALLED ON A WALL OR STOWAGE BIN END CAP.**

These circuit breakers are inoperative and should remain open:

**CAPT Electrical System Panel, P18-3**

Row   Col   Number   Name

**LOM 427, 428, 433, 434, 440, 442-445, 450-454, 457**

C        10     C01408     PASS CABIN SIGNS NO SMOKING R (INOP)

C        11     C01407     PASS CABIN SIGNS NO SMOKING L (INOP)

EFFECTIVITY  
LOM ALL

**33-25-00**



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

LOM 427-434, 437-447, 450-999; AIRPLANES WITH A SIGN INSTALLED ON A WALL OR STOWAGE BIN END CAP.

F. Replacement Test

SUBTASK 33-25-00-860-026

- (1) Make sure that electrical power is supplied to the airplane (TASK 24-22-00-860-811).

SUBTASK 33-25-00-710-011

- (2) Do this test for the new lamp:

LOM 429-432, 437-439, 441, 446, 447, 455, 456, 458-999; AIRPLANES WITH NO-SMOKING SIGNS PERMANENTLY ILLUMINATED

- (a) Make sure the no-smoking symbol comes on when electrical power is supplied.

LOM 427-434, 437-447, 450-999; AIRPLANES WITH A SIGN INSTALLED ON A WALL OR STOWAGE BIN END CAP.

- (b) At the pilots overhead panel, P5, set the switch for the seat belts to the on mode.

LOM 429-432, 437-439, 441, 446, 447, 455, 456, 458-999; AIRPLANES WITH NO-SMOKING SIGNS PERMANENTLY ILLUMINATED

NOTE: The switch for the no-smoking signs does not operate.

LOM 427-434, 437-447, 450-999; AIRPLANES WITH A SIGN INSTALLED ON A WALL OR STOWAGE BIN END CAP.

- 1) Make sure the fasten-seat-belt symbol comes on.

- (c) Set the fasten-seat-belt switch to the off mode.

- 1) Make sure the fasten-seat-belt symbol goes off.

LOM 429-432, 437-439, 441, 446, 447, 455, 456, 458-999; AIRPLANES WITH NO-SMOKING SIGNS PERMANENTLY ILLUMINATED

- (d) Make sure the no-smoking symbol stays on.

————— END OF TASK ————

LOM ALL

**TASK 33-25-00-960-803**

8. **Information Sign - Light Assembly Replacement for a Return to Seat Sign**

(Figure 205)

A. References

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage



**33-25-00**



**737-600/700/800/900**  
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**C. Procedure**

SUBTASK 33-25-00-860-008

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

**CAPT Electrical System Panel, P18-3**

Row   Col   Number   Name

<b>LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-465</b>			
C	8	C01406	PASS CABIN SIGNS FASTEN SEAT BELT R
<b>LOM 466-999</b>			
C	8	C04072	PASS CABIN SIGNS FASTEN SEAT BELT R
<b>LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-465</b>			
C	9	C01405	PASS CABIN SIGNS FASTEN SEAT BELT L
<b>LOM 466-999</b>			
C	9	C04071	PASS CABIN SIGNS FASTEN SEAT BELT L

**LOM ALL**

SUBTASK 33-25-00-960-005

- (2) Do these steps to replace the return to seat sign [2]:
- Remove the bezel [1] from return to seat sign [2].
  - Remove the screws [3].
  - Remove return to seat sign [2].
  - Put identification tags on the electrical connector for the correct connection during installation.
  - Disconnect the electrical connector.
  - Replace the return to seat sign [2].
  - Connect the electrical connector to the new return to seat sign [2].
  - Remove the identification tags from the electrical connector.
  - Install the screws [3] to attach the return to seat sign [2] in position.
  - Install the bezel [1].

SUBTASK 33-25-00-960-016

- (3) Alternative procedure for return to seat sign [4]:
- Carefully pull the return to seat sign [4] from the light assembly [5].
  - Put identification tags on the electrical connectors for the correct connections during installation.
  - Disconnect the electrical connectors.
  - Replace the return to seat sign [4].
  - Connect the electrical connectors to the new return to seat sign [4].
  - Remove identification tags from the electrical connectors.
  - Install the return to seat sign [4] to the light assembly [5].

EFFECTIVITY  
LOM ALL

**33-25-00**



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SUBTASK 33-25-00-860-009

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

**CAPT Electrical System Panel, P18-3**

Row   Col   Number   Name

<b>LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-465</b>			
C	8	C01406	PASS CABIN SIGNS FASTEN SEAT BELT R
<b>LOM 466-999</b>			
C	8	C04072	PASS CABIN SIGNS FASTEN SEAT BELT R
<b>LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-465</b>			
C	9	C01405	PASS CABIN SIGNS FASTEN SEAT BELT L
<b>LOM 466-999</b>			
C	9	C04071	PASS CABIN SIGNS FASTEN SEAT BELT L

**LOM ALL**

SUBTASK 33-25-00-860-010

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

SUBTASK 33-25-00-710-003

- (6) Do a test of the new light assembly.

- (a) At the pilots overhead panel, P5, set the switch for the seat belts to the on mode.
  - 1) Make sure the return-to-seat sign comes on.
- (b) Set the switch to the off mode.
  - 1) Make sure the sign goes off.

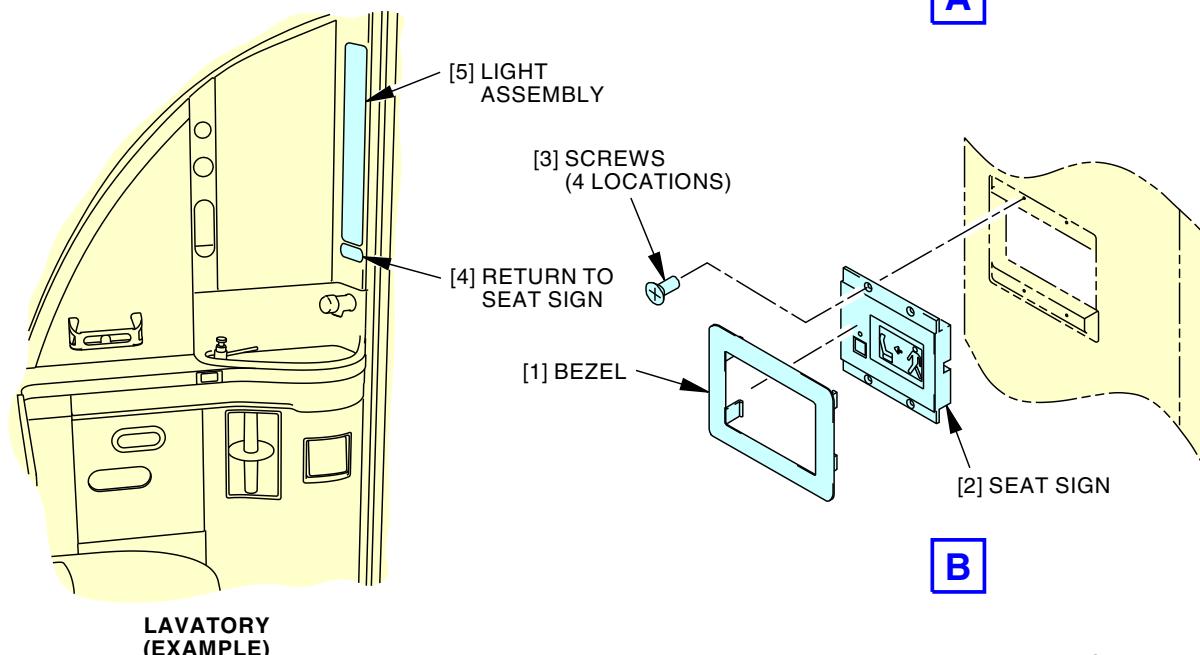
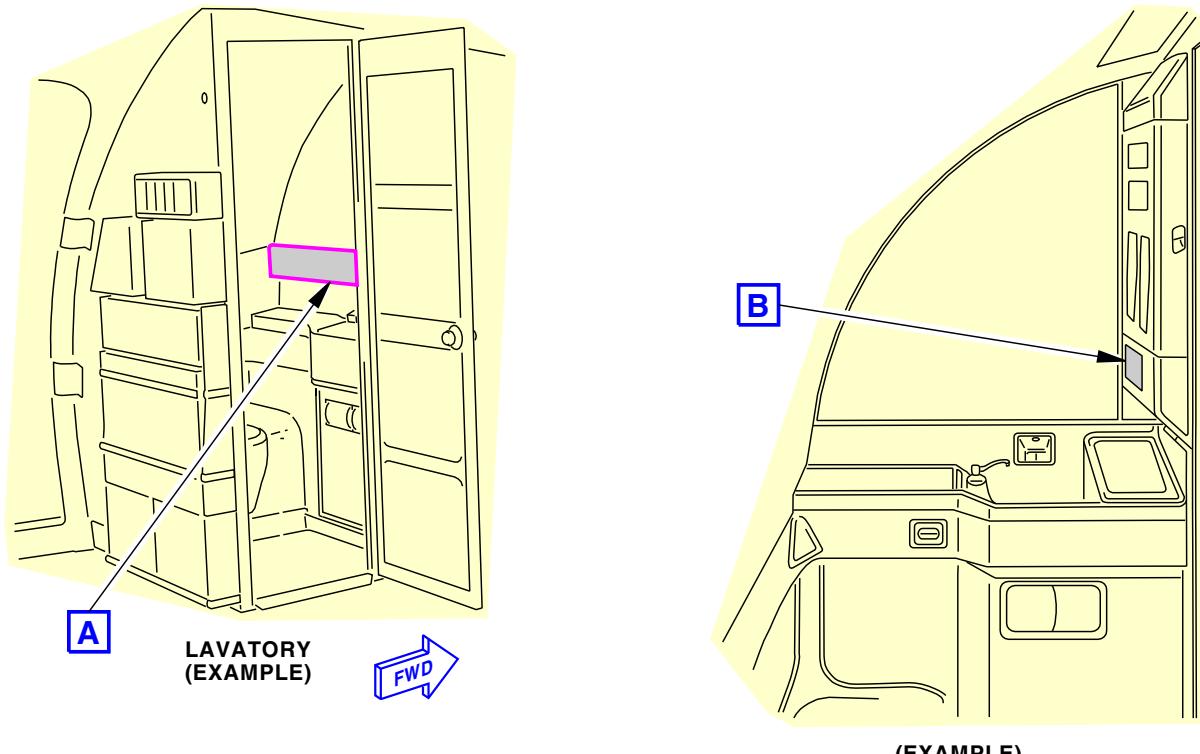
SUBTASK 33-25-00-860-011

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

———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-25-00**



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**Information Sign, Return-To-Seat Sign - Light Assembly Replacement**  
**Figure 205/33-25-00-990-803**

 EFFECTIVITY  
 LOM ALL

**33-25-00**

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ATTENDANT WORK LIGHTS - MAINTENANCE PRACTICES

**1. General**

- A. This procedure has these tasks:
- (1) Attendant Work Lights Deactivation.
  - (2) Attendant Work Lights Activation.
  - (3) Attendant Work Light Lamp Replacement.
  - (4) Attendant Work Light Assembly Replacement.

**TASK 33-26-01-040-801**

**2. Attendant Work Lights - Deactivation**

(Figure 201)

**A. General**

- (1) This procedure removes electrical power to the attendant work lights.

**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. Attendant Work Lights - Deactivation**

SUBTASK 33-26-01-010-001

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

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 33-26-01-860-012



**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.

EFFECTIVITY  
LOM ALL

**33-26-01**



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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 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	3	C00140	WORK AND THSHD LTS

**E. Attendant Work Lights - Tryout**

NOTE: This tryout is to make sure the Attendant Work Lights are in a zero energy state.

SUBTASK 33-26-01-860-013



**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**

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 this circuit breaker is open and has safety tag:

**Power Distribution Panel Number 1, P91**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	3	C00140	WORK AND THSHD LTS

SUBTASK 33-26-01-410-005

- (2) Close this access panel:

**Number      Name/Location**

117A            Electronic Equipment Access Door

SUBTASK 33-26-01-700-001

- (3) Do the following steps for the attendant work lights:

- Put the work light switch, at the FWD attendant panel, to the ON mode.
  - Make sure that the attendant work light does not come on.
- Put the work light switch, at the AFT attendant panel, to the ON mode.
  - Make sure that the attendant work light does not come on.

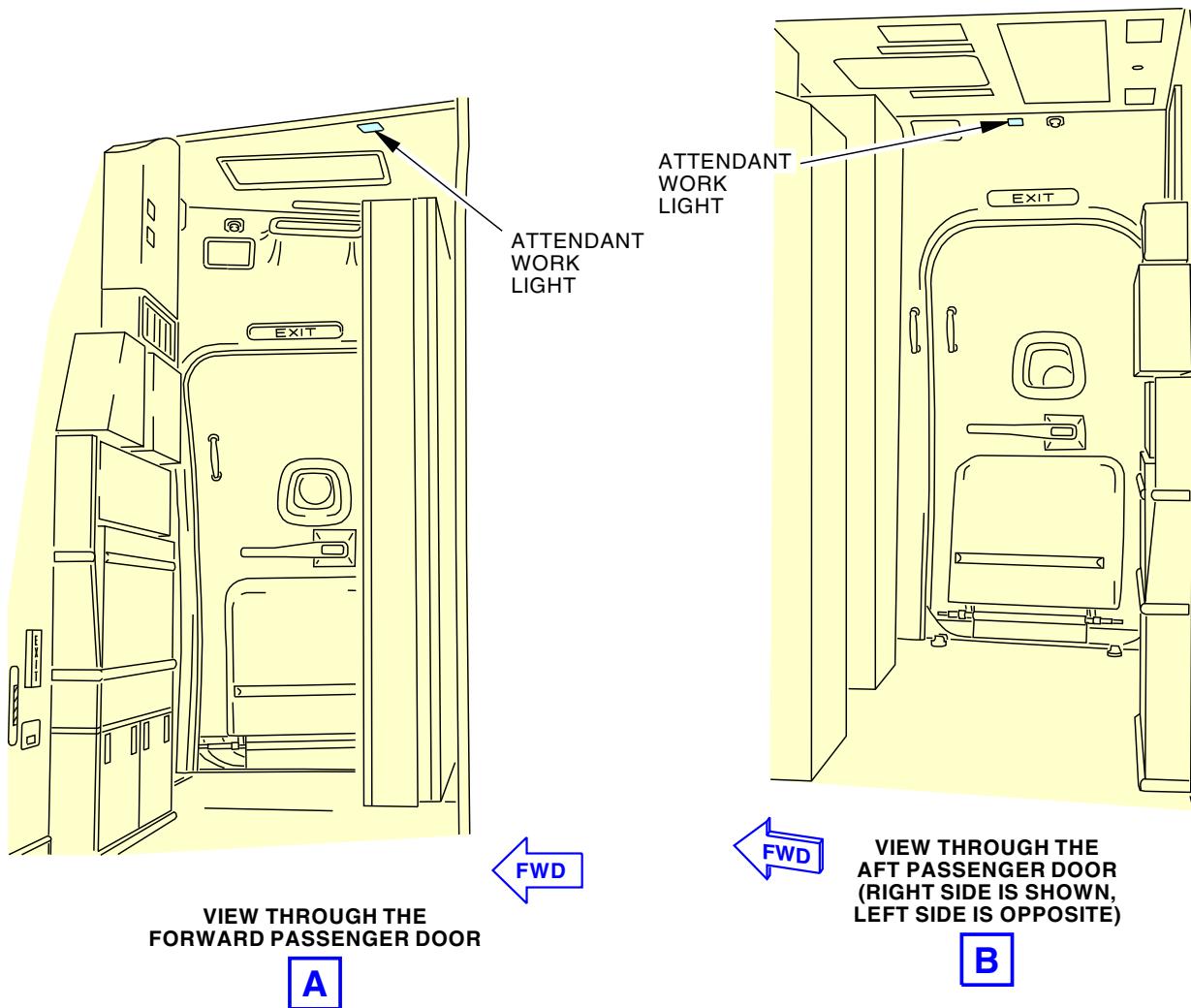
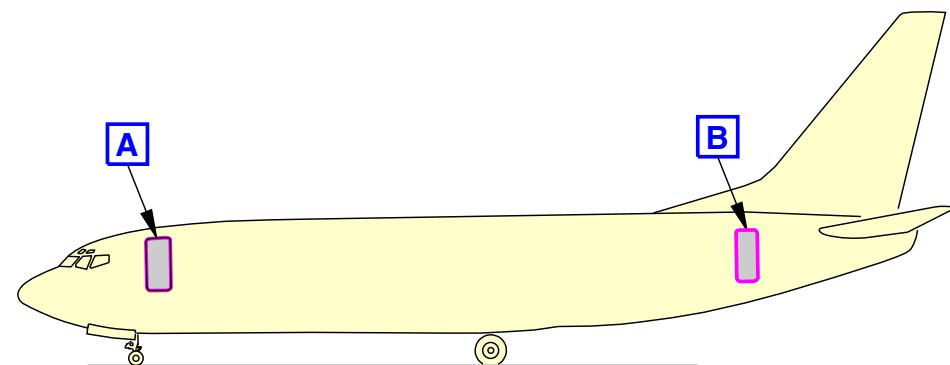
———— END OF TASK ————

— EFFECTIVITY —  
LOM ALL

**33-26-01**



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Attendant Work Lights  
Figure 201/33-26-01-990-803

EFFECTIVITY  
LOM ALL

**33-26-01**

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ECCN 9E991 BOEING PROPRIETARY - See title page for details



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AIRCRAFT MAINTENANCE MANUAL

TASK 33-26-01-440-801

3. **Attendant Work Lights - Activation**

(Figure 201)

A. **General**

- (1) This procedure adds electrical power to the attendant work lights.

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. **Attendant Work Lights - Activation**

SUBTASK 33-26-01-010-003

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

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 33-26-01-860-014



**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.



**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**

Row	Col	Number	Name
C	3	C00140	WORK AND THSHD LTS

SUBTASK 33-26-01-410-002

- (3) Close this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

— END OF TASK —

EFFECTIVITY  
LOM ALL

**33-26-01**



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

**TASK 33-26-01-960-801**

**4. Attendant Work Light - Lamp Replacement**

(Figure 202)

**A. References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
WDM 33-26-11	Wiring Diagram Manual

**B. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Lamp	33-26-01-04B-110	LOM 412, 415, 416, 420, 423, 424
		33-26-01-09A-045	LOM 427-434, 437-447, 450-999
		33-26-01-19-170	LOM 402, 406, 407, 411, 426
		33-26-01-30A-055	LOM 411, 412, 415, 416, 422-426
		33-26-01-34-040	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426
		33-26-01-37-080	LOM 402, 404, 406, 407, 420

**C. Location Zones**

Zone	Area
200	Upper Half of Fuselage

**D. Procedure**

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

SUBTASK 33-26-01-860-010

- (1) At the adjacent attendant panel, make sure the switch for the attendant work light is set to the off mode (WDM 33-26-11).

**LOM 427-434, 437-447, 450-999**

SUBTASK 33-26-01-860-011

- (2) Do these steps at the adjacent attendant control panel:
  - (a) Make sure that the attendant control panel display is activated. To activate it, touch the opposite corners of the display sequentially within two seconds.
  - (b) On the attendant control panel display, touch the Lighting tab.
  - (c) For attendant work light in the forward entry area, make sure that the OFF button below the Forward Entry Area, Work section is a black color.

NOTE: The OFF button is a black color when the light is off and a blue color when the light is on.

- 1) If the OFF button is a blue color, touch the OFF button to remove electrical power to the attendant work light.

EFFECTIVITY
LOM ALL

**33-26-01**



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**AIRCRAFT MAINTENANCE MANUAL**

**LOM 427-434, 437-447, 450-999 (Continued)**

- (d) For attendant work light in the aft entry area, make sure that the OFF button below the Aft Entry Area, Work section is a black color.

NOTE: The OFF button is a black color when the light is off and a blue color when the light is on.

- 1) If the OFF button is a blue color, touch the OFF button to remove electrical power to the attendant work light.

**LOM ALL**

SUBTASK 33-26-01-960-001



**WARNING**

DO NOT TOUCH THE SOCKET OR THE METAL END OF THE LAMP. WHEN ELECTRICAL POWER IS SUPPLIED TO THE LIGHT, ELECTRICAL SHOCK CAN OCCUR.

- (3) Do these steps to replace the lamp :

- (a) Remove the lens [2].

NOTE: Use a slim, flat tool to lift away the lens.

- (b) Replace the lamp [1].

- (c) Push the lens [2] back into its position.

SUBTASK 33-26-01-860-001

- (4) Make sure electrical power is supplied to the airplane. To supply it, do this task: Supply Electrical Power, TASK 24-22-00-860-811.

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

SUBTASK 33-26-01-710-001

- (5) Do a test of the new lamp:

- (a) At the adjacent attendant panel, set the switch for the attendant work light to the on mode.

- 1) Make sure the light comes on.

- (b) Set the switch to the off mode.

- 1) Make sure the light goes off.

**LOM 427-434, 437-447, 450-999**

SUBTASK 33-26-01-710-003

- (6) Do a test of the new lamp:

- (a) Make sure that the adjacent attendant control panel display is activated. To activate it, touch the opposite corners of the display sequentially within two seconds.

- (b) On the attendant control panel display, touch the Lighting tab.

- (c) For attendant work light in the forward entry area, do these steps

NOTE: The OFF button is a black color when the light is off and a blue color when the light is on.

- 1) Below the Forward Entry Area, Work section, touch the OFF button.

- a) Make sure that the attendant work light comes on.

- 2) Below the Forward Entry Area, Work section, touch the OFF button.

EFFECTIVITY  
**LOM ALL**

**33-26-01**

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**AIRCRAFT MAINTENANCE MANUAL**

**LOM 427-434, 437-447, 450-999 (Continued)**

- a) Make sure that the attendant work light goes off.
- (d) For attendant work light in the aft entry area, do these steps:

NOTE: The OFF button is a black color when the light is off and a blue color when the light is on.

- 1) Below the Aft Entry Area, Work section, touch the OFF button.
  - a) Make sure that the attendant work lights come on.
- 2) Below the Aft Entry Area, Work section, touch the OFF button.
  - a) Make sure that the attendant work lights go off.

**LOM ALL**

SUBTASK 33-26-01-860-002

- (7) If it is not necessary, remove electrical power. To remove it, do this task: Remove Electrical Power, TASK 24-22-00-860-812.

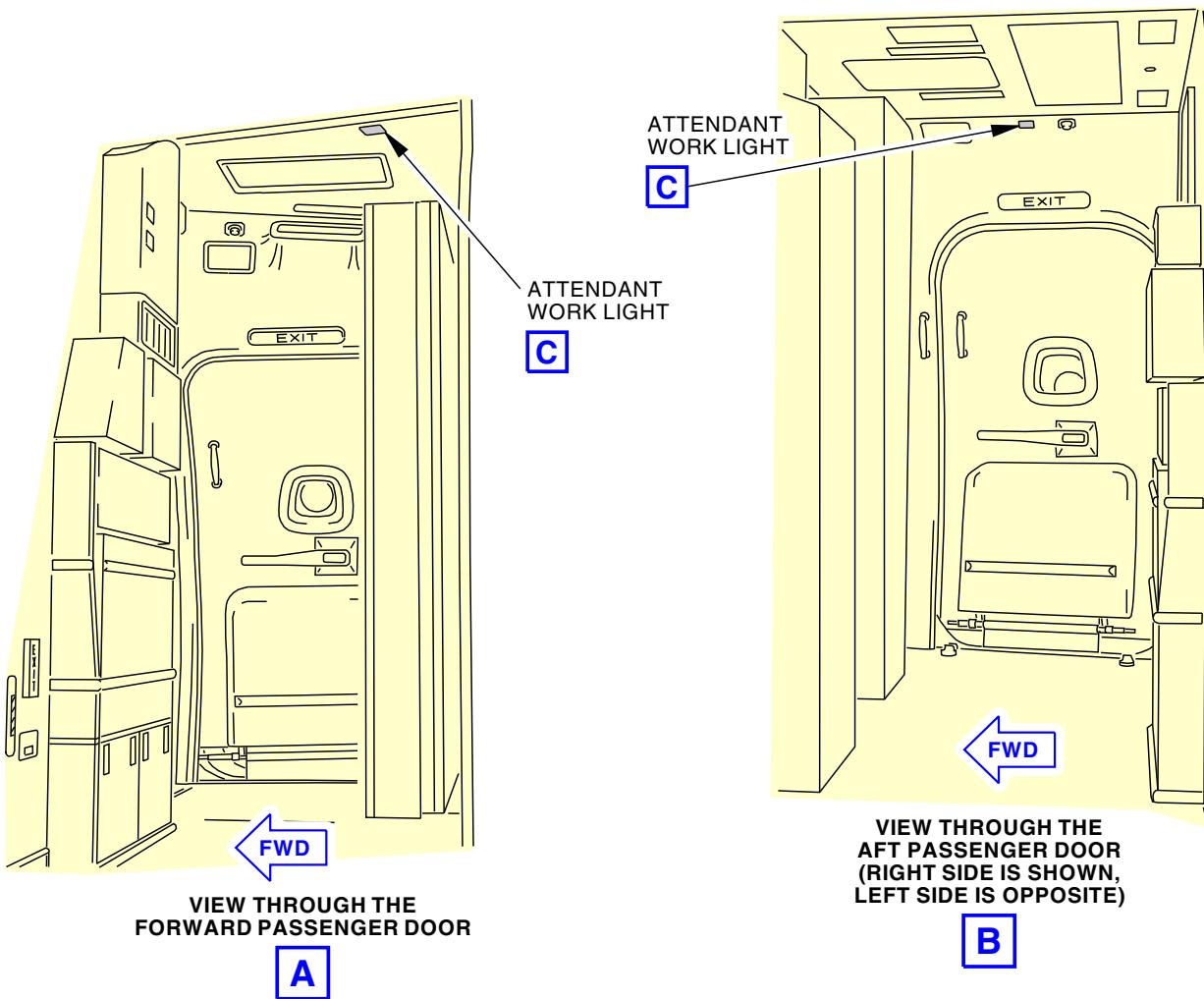
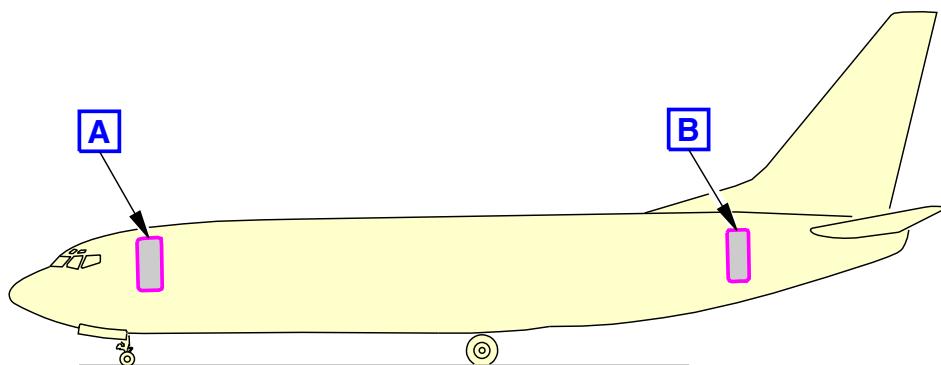
———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-26-01**



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AIRCRAFT MAINTENANCE MANUAL



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Attendant Work Light - Lamp Replacement  
Figure 202/33-26-01-990-801 (Sheet 1 of 2)

EFFECTIVITY  
LOM ALL

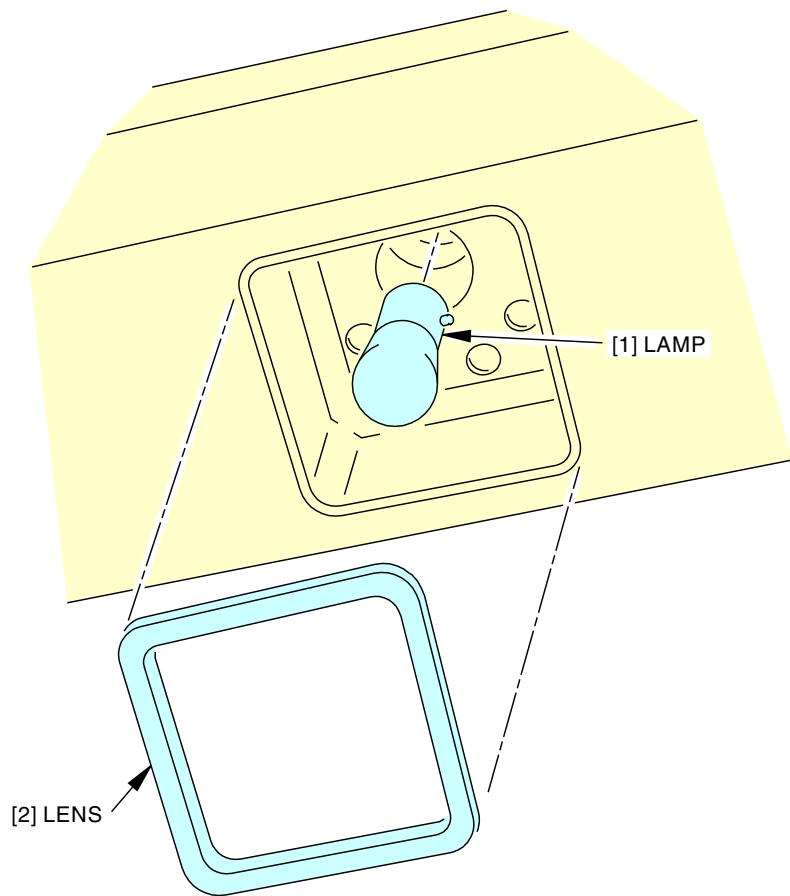
**33-26-01**

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details



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ATTENDANT WORK LIGHT  
(EXAMPLE)

C

F85682 S0006576056\_V2

Attendant Work Light - Lamp Replacement  
Figure 202/33-26-01-990-801 (Sheet 2 of 2)

EFFECTIVITY  
LOM ALL

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AIRCRAFT MAINTENANCE MANUAL

**TASK 33-26-01-960-802**

**5. Attendant Work Light - Light Assembly Replacement**

(Figure 203)

**A. References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
25-21-24-000-801	Aft Door Doorway Header Panel - Removal (P/B 401)
25-21-24-400-801	Aft Door Doorway Header Panel - Installation (P/B 401)
25-21-71-000-801	Lowered Ceiling Removal (P/B 401)
25-21-71-000-815	Lowered Ceiling Removal (P/B 401)
25-21-71-400-801	Lowered Ceiling Installation (P/B 401)
25-21-71-400-815	Lowered Ceiling Installation (P/B 401)

**B. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
22	Light assembly	33-26-01-04B-070	LOM 412, 415, 416, 420, 423, 424
		33-26-01-09A-040	LOM 427-434, 437-447, 450-999
		33-26-01-30A-035	LOM 411, 412, 415, 416, 422-426
		33-26-01-34-035	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426
		33-26-01-37-040	LOM 402, 404, 406, 407, 420

**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. Attendant Work Light - Light Assembly Replacement**

SUBTASK 33-26-01-010-002

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

Number	Name/Location
117A	Electronic Equipment Access Door



**33-26-01**



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AIRCRAFT MAINTENANCE MANUAL

SUBTASK 33-26-01-860-003



**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) 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	3	C00140	WORK AND THSHD LTS

SUBTASK 33-26-01-860-004

- (3) Get access to the back of the light assembly (Figure 203).

- At the forward entry door, open the access panel, do this task: Lowered Ceiling Removal, TASK 25-21-71-000-801 or Lowered Ceiling Removal, TASK 25-21-71-000-815.
- At the aft entry door, remove the overdoor panel, do this task: Aft Door Doorway Header Panel - Removal, TASK 25-21-24-000-801.

SUBTASK 33-26-01-960-002

- (4) Do these steps to replace the light assembly:

- Lift away the cap [23].
- Disconnect the electrical wires [24].
- Loosen the fasteners [21] on the light assembly.
- Replace the light assembly [22].
- Tighten the fasteners [21].
- Connect the electrical wires [24] to the new light assembly.
- Cover the electrical wires with the cap [23].

SUBTASK 33-26-01-410-001

- (5) Close the panel:

- At the aft entry door, install the overdoor panel, do this task: Aft Door Doorway Header Panel - Installation, TASK 25-21-24-400-801.
- At the forward entry door, close the access panel, do this task: Lowered Ceiling Installation, TASK 25-21-71-400-801 or Lowered Ceiling Installation, TASK 25-21-71-400-815.

EFFECTIVITY  
LOM ALL

**33-26-01**



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SUBTASK 33-26-01-860-005



**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.

- (6) 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	3	C00140	WORK AND THSHD LTS

SUBTASK 33-26-01-410-003

- (7) Close this access panel:

Number      Name/Location

117A            Electronic Equipment Access Door

SUBTASK 33-26-01-860-006

- (8) Make sure that the airplane is supplied with electrical power, do this task: Supply Electrical Power, TASK 24-22-00-860-811.

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

SUBTASK 33-26-01-710-002

- (9) Do a test of the new light:

- (a) At the adjacent attendant panel, set the switch for the attendant work light to the on mode.
  - 1) Make sure that the light comes on.
- (b) Set the switch to the off mode.
  - 1) Make sure that the light goes off.

**LOM 427-434, 437-447, 450-999**

SUBTASK 33-26-01-710-004

- (10) Do a test of the new light:

- (a) Make sure that the adjacent attendant control panel display is activated.
  - 1) If it is necessary, touch the opposite corners of the display sequentially within two seconds to activate it.
- (b) On the attendant control panel display, touch the Lighting tab.
- (c) For attendant work light in the forward entry area, do these steps

NOTE: The OFF button is a black color when the light is off and a blue color when the light is on.

EFFECTIVITY  
LOM ALL

**33-26-01**



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**LOM 427-434, 437-447, 450-999 (Continued)**

- 1) Below the Forward Entry Area, Work section, touch the OFF button.
    - a) Make sure that the attendant work light comes on.
  - 2) Below the Forward Entry Area, Work section, touch the OFF button.
    - a) Make sure that the attendant work light goes off.
- (d) For attendant work light in the aft entry area, do these steps:

NOTE: The OFF button is a black color when the light is off and a blue color when the light is on.

- 1) Below the Aft Entry Area, Work section, touch the OFF button.
  - a) Make sure that the attendant work lights come on.
- 2) Below the Aft Entry Area, Work section, touch the OFF button.
  - a) Make sure that the attendant work lights go off.

**LOM ALL**

SUBTASK 33-26-01-860-007

- (11) If it is not necessary, remove electrical power, do this task: Remove Electrical Power, TASK 24-22-00-860-812.

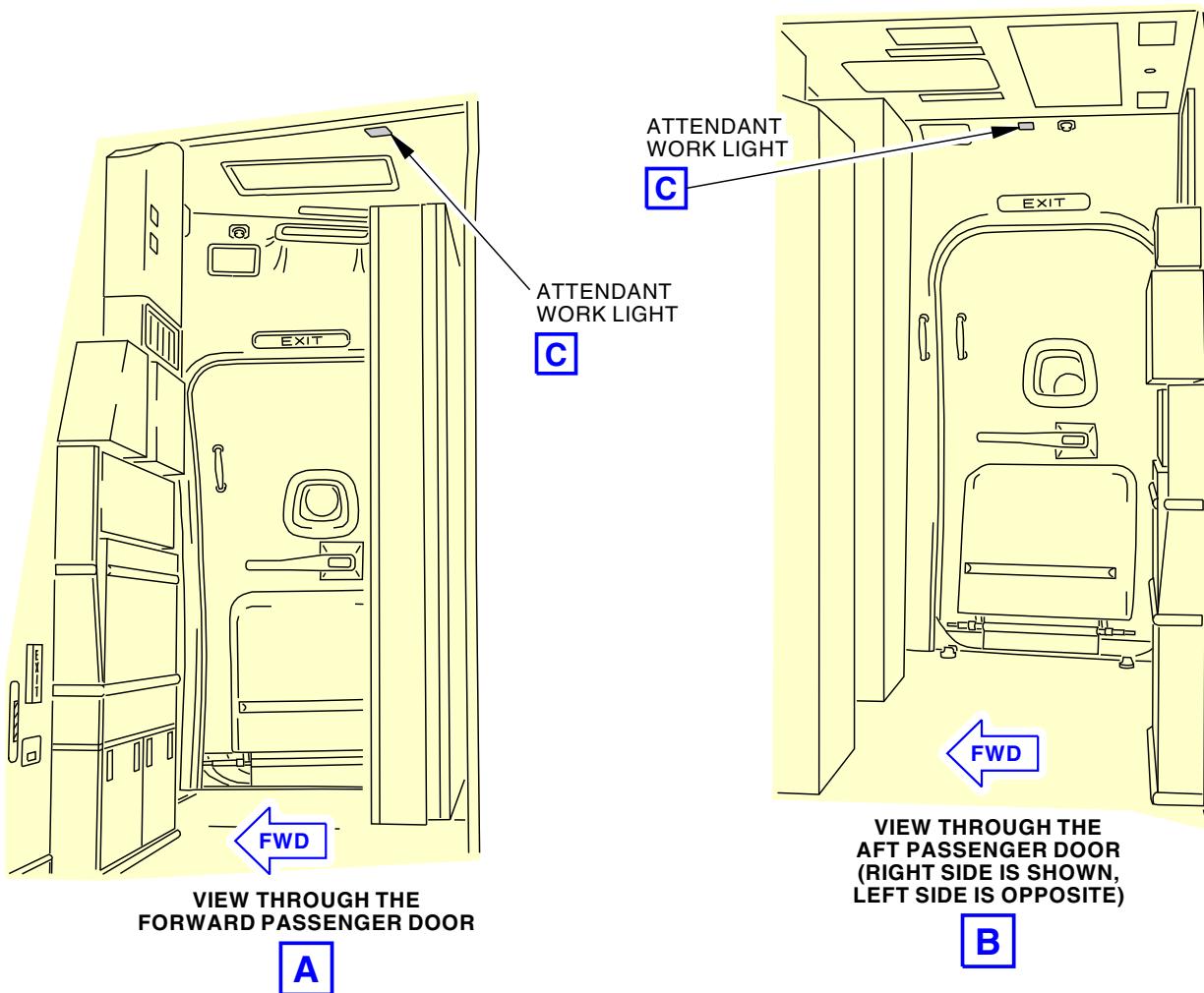
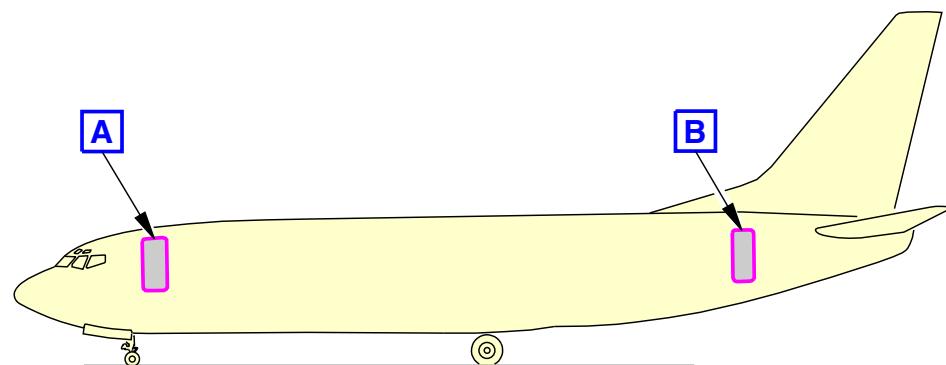
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EFFECTIVITY  
**LOM ALL**

**33-26-01**



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**Attendant Work Light - Light Assembly Replacement**  
Figure 203/33-26-01-990-802 (Sheet 1 of 2)

EFFECTIVITY  
LOM ALL

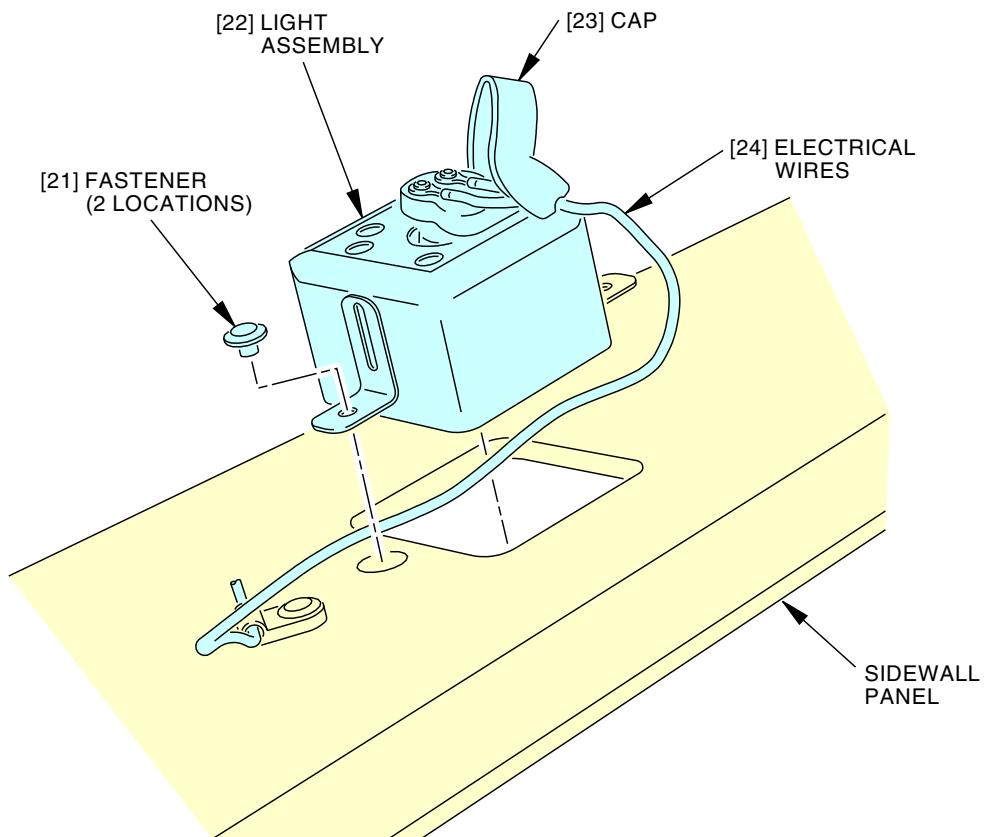
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ATTENDANT WORK LIGHT  
(EXAMPLE)

C

F85663 S0006576059\_V2

Attendant Work Light - Light Assembly Replacement  
Figure 203/33-26-01-990-802 (Sheet 2 of 2)

EFFECTIVITY  
LOM ALL

**33-26-01**

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GALLEY LIGHTS - MAINTENANCE PRACTICES

**1. General**

- A. This procedure has these tasks:
- (1) FWD Galley Area Lights Deactivation
  - (2) FWD Galley Area Lights Activation
  - (3) Galley Light - Lamp Replacement
  - (4) Galley Light - Ballast Replacement

**TASK 33-26-02-040-801**

**2. FWD Galley Area Lights - Deactivation**

**A. General**

- (1) This procedure removes the electrical power to the FWD right side galley area lights.

**B. Location Zones**

Zone	Area
118	Electrical and Electronics Compartment - Right
231	Forward Passenger Compartment - Forward Entry Door to Sta 663.75 - Left
232	Forward Passenger Compartment - Forward Entry Door to Sta 663.75 - Right

**C. Access Panels**

Number	Name/Location
117A	Electronic Equipment Access Door

**D. FWD Galley Area Lights Deactivation**

SUBTASK 33-26-02-010-002

- (1) To get access to the P92 panel, open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 33-26-02-860-008



**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

**33-26-02**



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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 this circuit breaker and install safety tag:

**Power Distribution Panel Number 2, P92**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
E	10	C00242	GALLEY LTS

SUBTASK 33-26-02-410-003

- (3) Close this access panel:

Number      Name/Location

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

**E. FWD Galley Area Lights Tryout**

NOTE: This tryout is to make sure that the FWD galley area lights is in a zero energy state.

SUBTASK 33-26-02-211-001

- (1) To make sure that the galley area light is off, do these steps:

- (a) Turn the galley area light switch, on the galley G1 control panel, to the DIM position.
  - 1) Make sure that the galley area light is off.
- (b) Turn the galley area light switch, on the galley G1 control panel, to the BRIGHT position.
  - 1) Make sure that the galley area light is off.

———— END OF TASK ————

**TASK 33-26-02-440-801**

**3. FWD Galley Area Lights - Activation**

**A. General**

- (1) This procedure supplies electrical power to the FWD right side galley area lights.

**B. Location Zones**

<u>Zone</u>	<u>Area</u>
118	Electrical and Electronics Compartment - Right
231	Forward Passenger Compartment - Forward Entry Door to Sta 663.75 - Left
232	Forward Passenger Compartment - Forward Entry Door to Sta 663.75 - Right

**C. Access Panels**

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

———— EFFECTIVITY ————  
**LOM ALL**

**33-26-02**



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### D. FWD Galley Area Lights Activation

SUBTASK 33-26-02-010-003

- (1) To get access to the P92 panel, open this access panel:

**Number      Name/Location**

117A      Electronic Equipment Access Door

SUBTASK 33-26-02-860-009



**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.

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

**Power Distribution Panel Number 2, P92**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
E	10	C00242	GALLEY LTS

SUBTASK 33-26-02-410-002

- (3) Close this access panel:

**Number      Name/Location**

117A      Electronic Equipment Access Door

———— END OF TASK ————

### TASK 33-26-02-960-801

#### 4. Galley Light - Lamp Replacement

(Figure 201)

##### A. References

<b>Reference</b>	<b>Title</b>
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
WDM 33-26-21	Wiring Diagram Manual

##### B. Location Zones

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

##### C. Procedure

SUBTASK 33-26-02-860-001

- (1) In the galley, set the switch for the galley light to the off mode. (WDM 33-26-21)

— EFFECTIVITY —  
**LOM ALL**

**33-26-02**



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AIRCRAFT MAINTENANCE MANUAL

SUBTASK 33-26-02-960-001



**WARNING** DO NOT TOUCH THE SOCKETS OR THE METAL ENDS OF THE LAMP.  
WHEN ELECTRICAL POWER IS SUPPLIED TO THE LIGHT, ELECTRICAL  
SHOCK CAN OCCUR.

- (2) Do these steps to replace the lamp :
- Loosen the fasteners [1] and remove the lens assembly [2].
  - Replace the lamp [3].  
NOTE: Use the levers to eject the lamp.
  - Install the lens assembly [2] and tighten fasteners [1].

SUBTASK 33-26-02-860-002

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

SUBTASK 33-26-02-710-001

- (4) Do a test of the new lamp:
- Set the switch for the galley light to the bright mode.
    - Make sure the light comes on brightly.
  - Set the switch to the dim mode.
    - Make sure the light becomes dim.
  - Set the switch to the off mode.
    - Make sure the light goes off.

SUBTASK 33-26-02-860-003

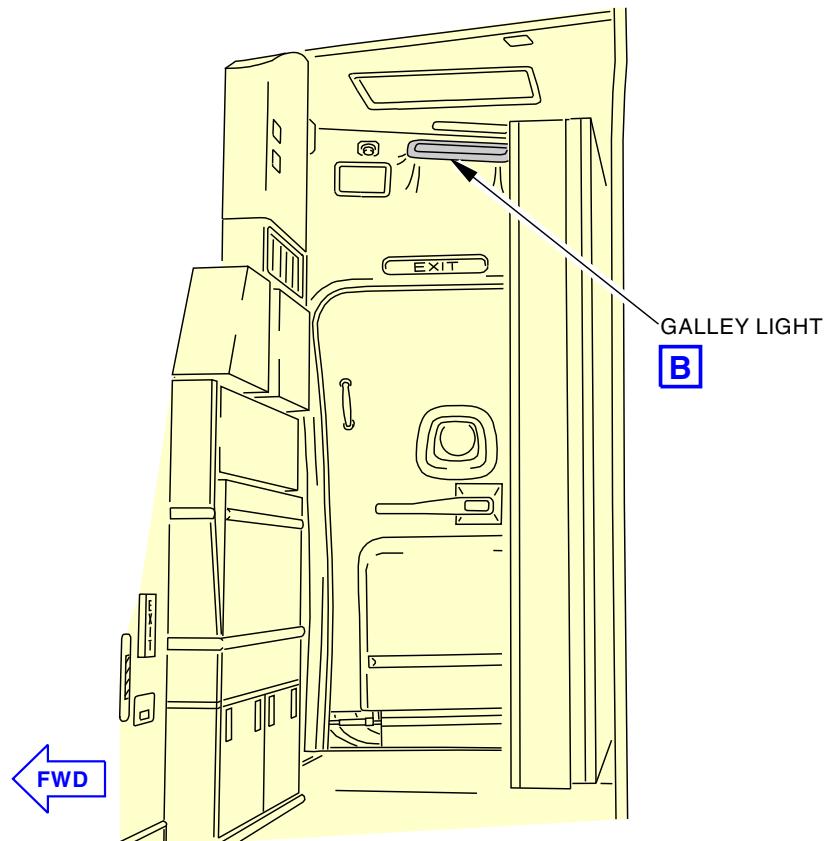
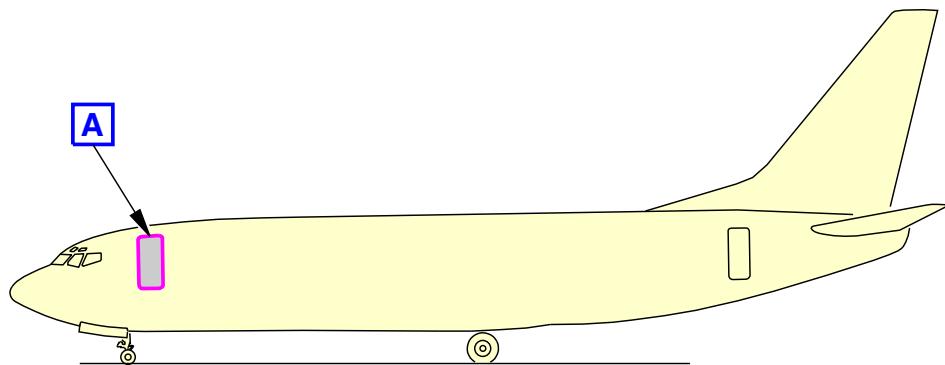
- (5) Do this task: Remove Electrical Power, TASK 24-22-00-860-812.

———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-26-02**

**BOEING**  
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VIEW THROUGH THE  
FORWARD ENTRY DOOR



F86263 S0006576063\_V3

**Galley Light - Lamp Replacement**  
Figure 201/33-26-02-990-801 (Sheet 1 of 2)

EFFECTIVITY  
LOM ALL

**33-26-02**

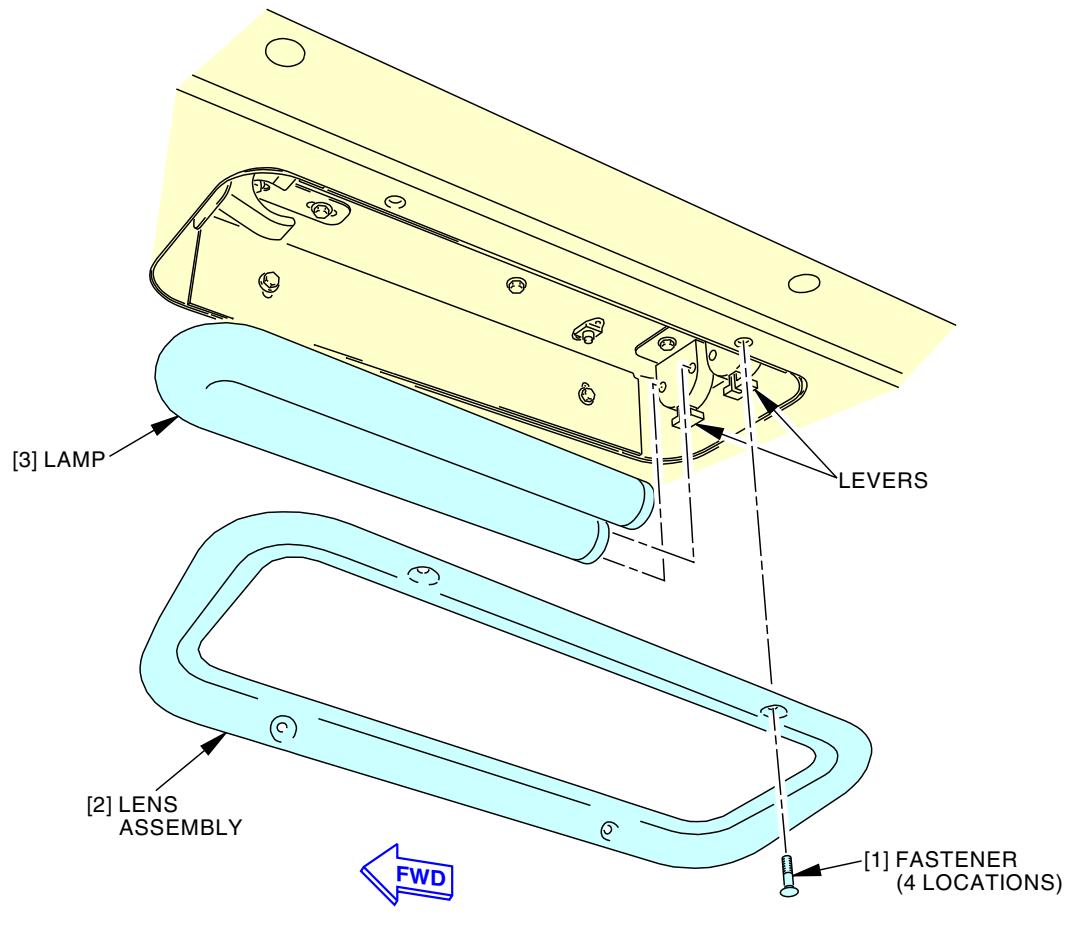
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GALLEY LIGHT



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Galley Light - Lamp Replacement  
Figure 201/33-26-02-990-801 (Sheet 2 of 2)

EFFECTIVITY  
LOM ALL

**33-26-02**

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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**TASK 33-26-02-960-802**

**5. Galley Light - Ballast Replacement**

(Figure 202)

**A. References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
WDM 33-26-21	Wiring Diagram Manual

**B. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
24	Ballast	33-26-01-06-035	LOM 416
		33-26-02-07D-105	LOM 416
		33-26-02-27A-089	LOM 412, 415, 426
		33-26-02-38-005	LOM 404, 416
		33-26-02-59-130	LOM 412, 415, 422, 425
		33-26-02-93-035	LOM 402, 404, 406, 407, 411, 422, 425
		33-26-02-93A-125	LOM 412, 415, 420, 423, 424
		33-26-02-93B-145	LOM 426
		33-26-02-95-120	LOM 427-434, 437-447, 450-999

**C. Location Zones**

Zone	Area
118	Electrical and Electronics Compartment - Right
200	Upper Half of Fuselage

**D. Access Panels**

Number	Name/Location
117A	Electronic Equipment Access Door

**E. Galley Light Ballast Replacement**

SUBTASK 33-26-02-010-004

- (1) To get access to the P92 panel, open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 33-26-02-860-004



**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.

EFFECTIVITY  
LOM ALL

**33-26-02**



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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 this circuit breaker and install safety tag:

**Power Distribution Panel Number 2, P92**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
E	10	C00242	GALLEY LTS

SUBTASK 33-26-02-010-001

- (3) Remove the galley light for the access to the ballast [24] (WDM 33-26-21):
- Loosen the fasteners [1] and remove the lens assembly [2].
  - Remove the lamp [3].
    - Use the levers to eject the lamp.
  - Remove the screws [23] and washers [22] in the housing [21].
  - Lower the housing [21].

SUBTASK 33-26-02-960-002

- (4) Do these steps to replace the ballast [24]:
- Disconnect the electrical connector [25] from the ballast [24].
  - Remove the screws [27] and washers [26] from the ballast [24].
  - Replace the ballast [24].
  - Install the screws [27] and washers [26].
  - Connect the electrical connector [25] to the new ballast [24].

SUBTASK 33-26-02-410-001

- (5) Install the galley light:
- Put the housing [21] back in its position.
  - Install the screws [23] and washers [22] in the housing [21].
  - Install the lamp [3].
  - Install the lens assembly [2] and tighten the fasteners [1].

SUBTASK 33-26-02-860-005



**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.

EFFECTIVITY  
LOM ALL

**33-26-02**

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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.

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

**Power Distribution Panel Number 2, P92**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
E	10	C00242	GALLEY LTS

SUBTASK 33-26-02-410-004

- (7) Close this access panel:

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

SUBTASK 33-26-02-860-006

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

SUBTASK 33-26-02-710-002

- (9) Do a test of the new ballast:

- (a) In the galley, set the switch for the galley light to the bright mode.
  - 1) Make sure that the light comes on brightly.
- (b) Set the switch to the dim mode.
  - 1) Make sure that the light becomes dim.
- (c) Set the switch to the off mode.
  - 1) Make sure that the light goes off.

SUBTASK 33-26-02-860-007

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

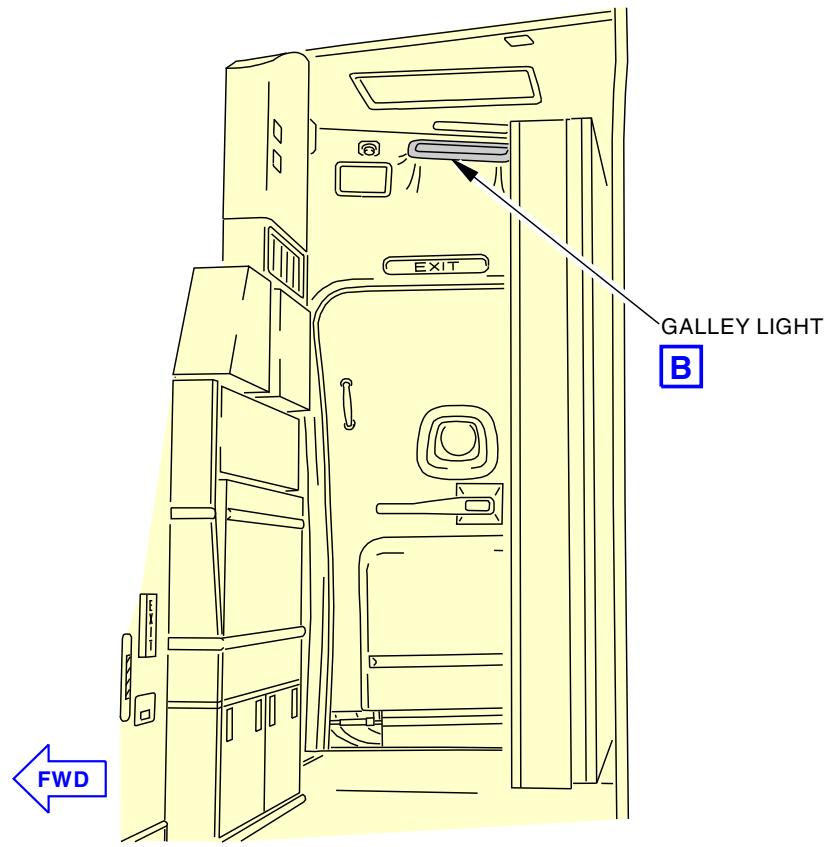
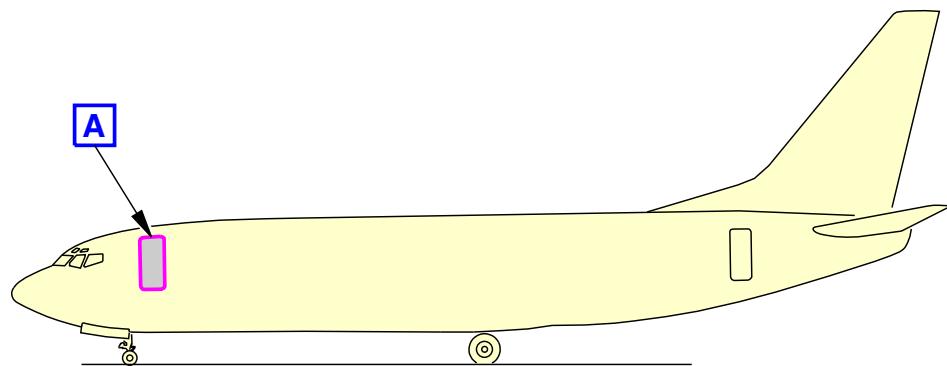
———— END OF TASK ————

— EFFECTIVITY —  
**LOM ALL**

**33-26-02**



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VIEW THROUGH THE  
FORWARD ENTRY DOOR



F86421 S0006576066\_V3

Galley Light - Ballast Replacement  
Figure 202/33-26-02-990-802 (Sheet 1 of 3)

EFFECTIVITY  
LOM ALL

**33-26-02**

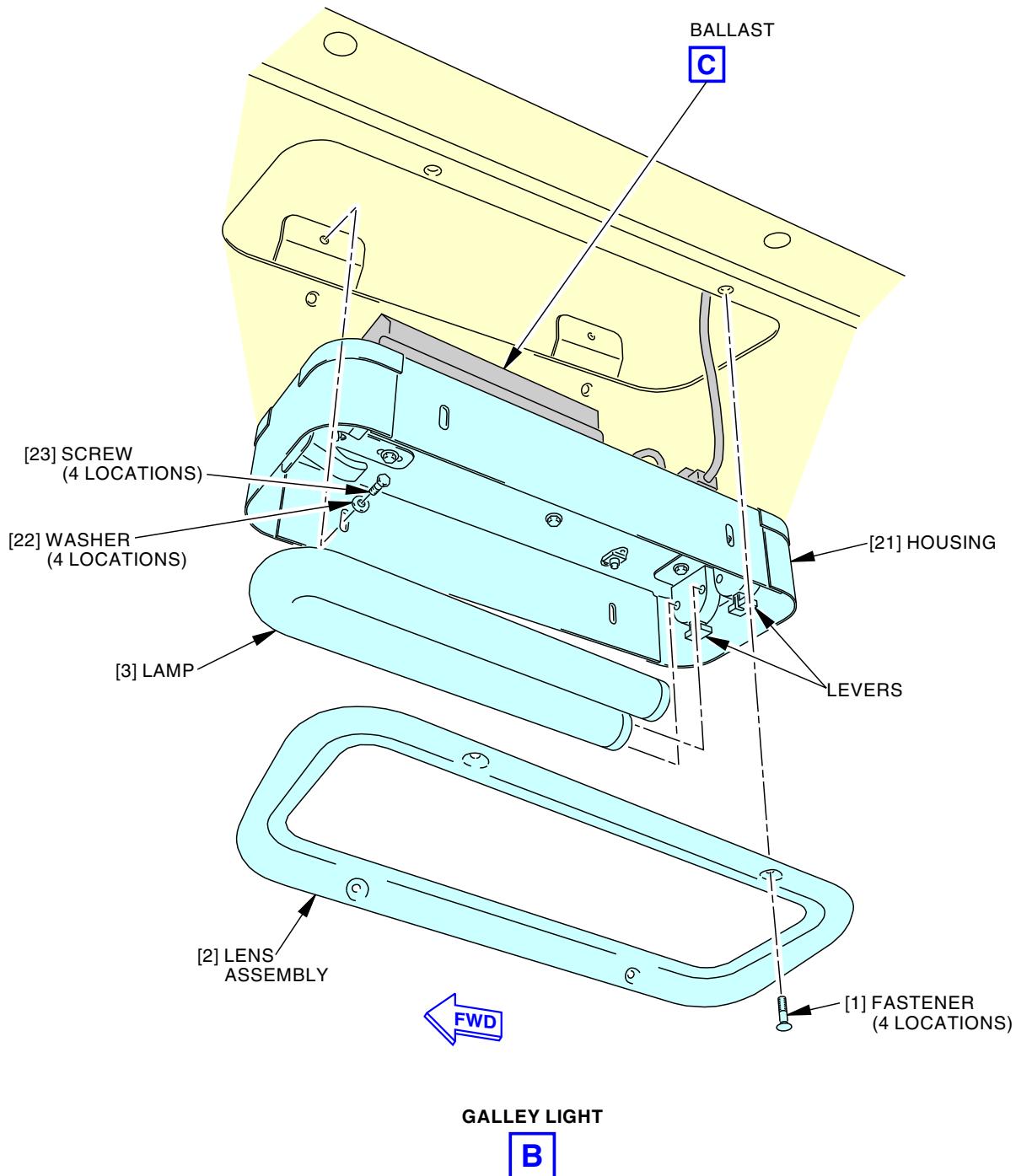
D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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AIRCRAFT MAINTENANCE MANUAL



F86436 S0006576067\_V2

Galley Light - Ballast Replacement  
Figure 202/33-26-02-990-802 (Sheet 2 of 3)

EFFECTIVITY  
LOM ALL

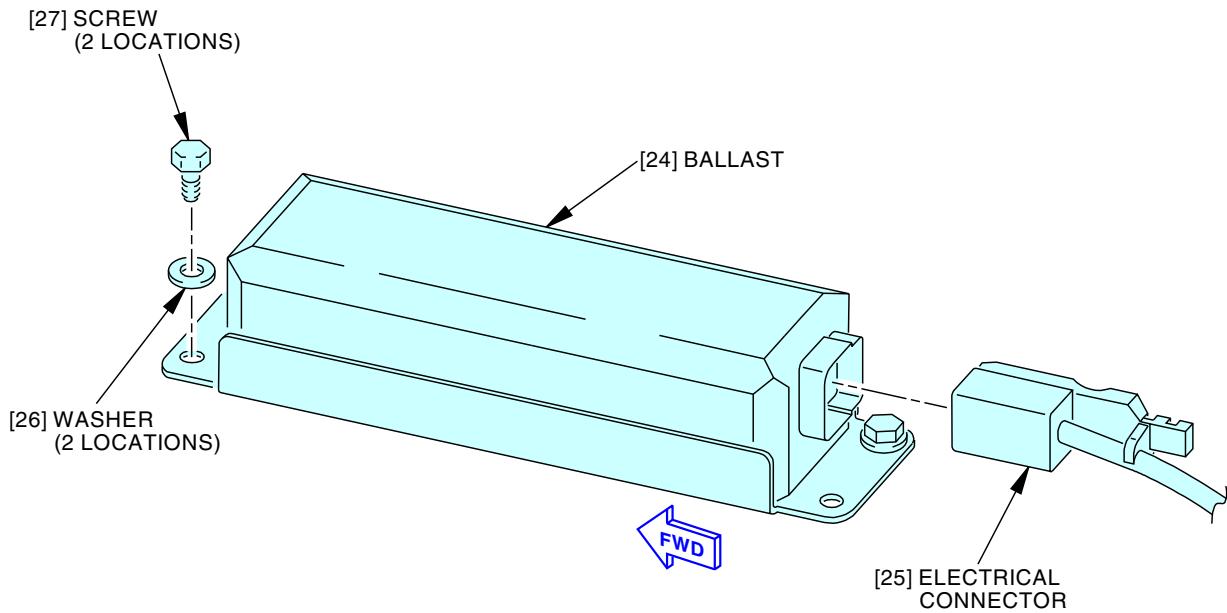
**33-26-02**

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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



BALLAST  
(EXAMPLE)  
**C**

F86443 S0006576068\_V2

**Galley Light - Ballast Replacement**  
Figure 202/33-26-02-990-802 (Sheet 3 of 3)

EFFECTIVITY  
LOM ALL

**33-26-02**

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AIRCRAFT MAINTENANCE MANUAL

LAVATORY LIGHTS AND SIGNS - MAINTENANCE PRACTICES

**1. General**

- A. This procedure has these tasks:
- (1) Lavatory Lights Deactivation
  - (2) Lavatory Lights Activation
  - (3) Lavatory Light - Lamp Replacement
  - (4) Lavatory Light - Ballast Replacement
  - (5) Lavatory Light - LED Light Replacement
  - (6) Lavatory-Occupied Sign - Light Assembly Replacement
  - (7) Lavatory Door Switch - Adjustment/Replacement

**TASK 33-26-03-040-801**

**2. Lavatory Lights - Deactivation**

(Figure 201)

**A. General**

- (1) This procedure removes electrical power from the lavatory lights.

**B. Location Zones**

<u>Zone</u>	<u>Area</u>
200	Upper Half of Fuselage
211	Flight Compartment - Left
212	Flight Compartment - Right

**C. Procedure**

SUBTASK 33-26-03-860-033

- (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, 422-426  
E      14      C00163      LAVATORY MIRROR LIGHT  
LOM 427-434, 437-447, 450-999  
E      14      C01648      LAVATORY MIRROR LIGHT

LOM ALL

**D. Lavatory Lights - Tryout**

SUBTASK 33-26-03-200-001

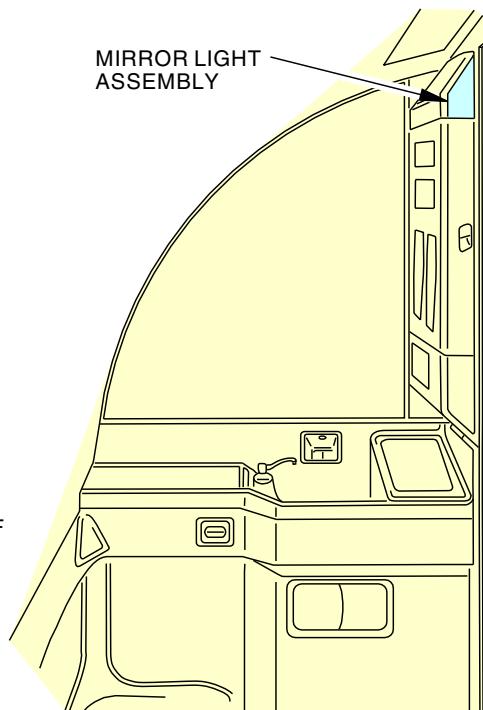
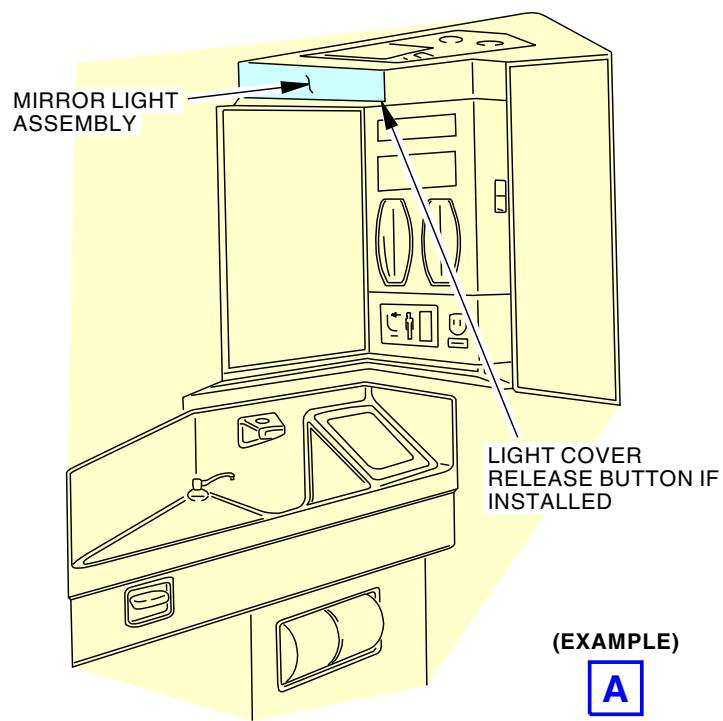
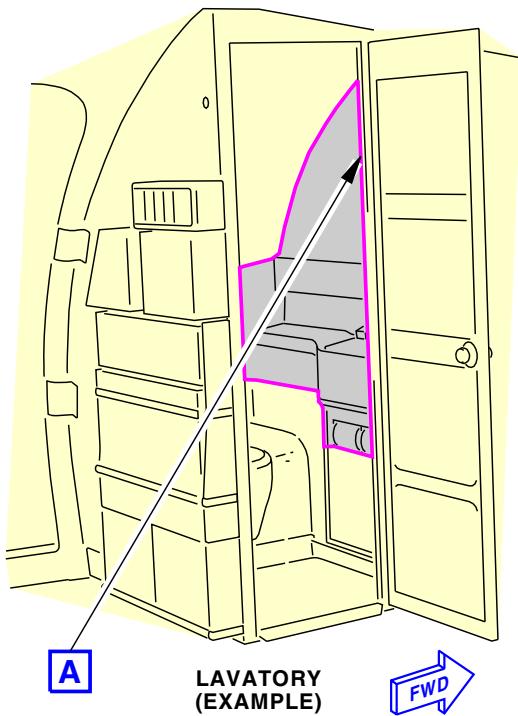
NOTE: This tryout is to make sure the Lavatory lights is in a zero energy state.

- (1) At each lavatory, close the door and make sure that the lights are off.

———— END OF TASK ————



**33-26-03**



2363906 S0000540729\_V2

**Lavatory Lights**  
Figure 201/33-26-03-990-810

EFFECTIVITY  
LOM ALL

**33-26-03**

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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AIRCRAFT MAINTENANCE MANUAL

**TASK 33-26-03-440-801**

**3. Lavatory Lights - Activation**

(Figure 201)

**A. General**

- (1) This procedure adds electrical power to the lavatory lights.

**B. Location Zones**

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

**C. Procedure**

SUBTASK 33-26-03-860-034

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

**CAPT Electrical System Panel, P18-3**

Row   Col   Number   Name

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426	E	14	C00163	LAVATORY MIRROR LIGHT
LOM 427-434, 437-447, 450-999	E	14	C01648	LAVATORY MIRROR LIGHT

———— END OF TASK ————

LOM ALL

**TASK 33-26-03-960-801**

**4. Lavatory Light - Lamp Replacement**

(Figure 202)

**A. References**

Reference	Title
WDM 33-26-31	Wiring Diagram Manual

**B. Location Zones**

Zone	Area
200	Upper Half of Fuselage

**C. Procedure**

SUBTASK 33-26-03-860-001



**WARNING**

REMOVE ELECTRICAL POWER FROM ALL LAMPS IN THE MIRROR LIGHT ASSEMBLY. THE LAMPS ARE HOT AND CAN CAUSE INJURY TO PERSONS IF ACCIDENTLY TOUCHED DURING MAINTENANCE ACTIVITIES.

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

**CAPT Electrical System Panel, P18-3**

Row   Col   Number   Name

LOM 404, 407 PRE SB 737-30A1063	D	9	C01217	PASS CAB SIGNS LAV OCC SIGN
---------------------------------	---	---	--------	-----------------------------

— EFFECTIVITY —  
**LOM ALL**

**33-26-03**



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

**LOM 404, 407 PRE SB 737-30A1063 (Continued)**

(Continued)

**CAPT Electrical System Panel, P18-3**

Row   Col   Number   Name

**LOM 402, 406, 411, 412, 415, 416, 422-434, 437-447, 450-999; LOM 404, 407, 420 POST SB  
737-30A1063**

D      10      C01217      PASS CAB SIGNS LAV OCC SIGN

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

E      14      C00163      LAVATORY MIRROR LIGHT

**LOM 427-434, 437-447, 450-999**

E      14      C01648      LAVATORY MIRROR LIGHT

**LOM ALL**

SUBTASK 33-26-03-960-002

(2) Do these steps to replace the lamp: (WDM 33-26-31)

(a) Pull the lens [1] away from the mirror light assembly.

1) If the lens has release button at the corner of the lens, press the release button to remove the lens.

(b) Replace the applicable lamp, fluorescent lamp [2], incandescent lamp [3], fluorescent lamp [4], or incandescent lamp [5].

NOTE: The red flag (or indicator) on the lamp holder is up while you are installing the fluorescent lamps. It is down when the fluorescent lamps are fully installed or before installation.

SUBTASK 33-26-03-860-002

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

**CAPT Electrical System Panel, P18-3**

Row   Col   Number   Name

**LOM 404, 407 PRE SB 737-30A1063**

D      9      C01217      PASS CAB SIGNS LAV OCC SIGN

**LOM 402, 406, 411, 412, 415, 416, 422-434, 437-447, 450-999; LOM 404, 407, 420 POST SB  
737-30A1063**

D      10      C01217      PASS CAB SIGNS LAV OCC SIGN

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

E      14      C00163      LAVATORY MIRROR LIGHT

**LOM 427-434, 437-447, 450-999**

E      14      C01648      LAVATORY MIRROR LIGHT

**LOM ALL**

SUBTASK 33-26-03-710-002

(4) Do a test of the new lamp:

(a) Make sure that the lavatory door is closed.

NOTE: The lamps in the mirror light assembly are energized when electrical power is supplied to the airplane and the Lav door is closed.

(b) Make sure that the lamp comes on.

EFFECTIVITY  
**LOM ALL**

**33-26-03**



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

SUBTASK 33-26-03-410-001

- (5) Align the lens [1] on the mirror light assembly, and push it back into its position.

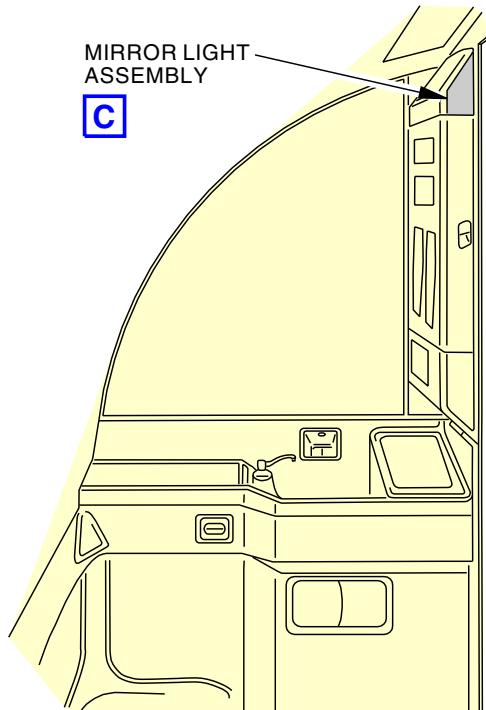
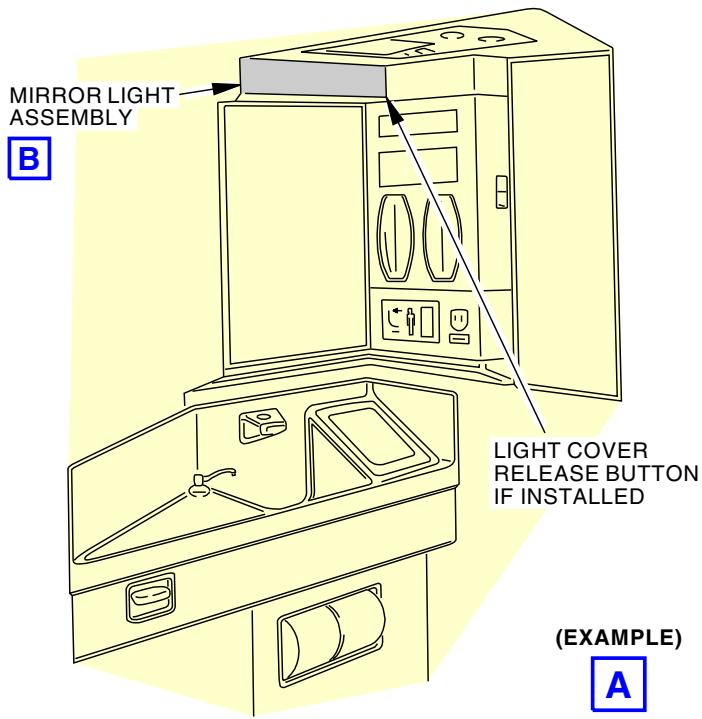
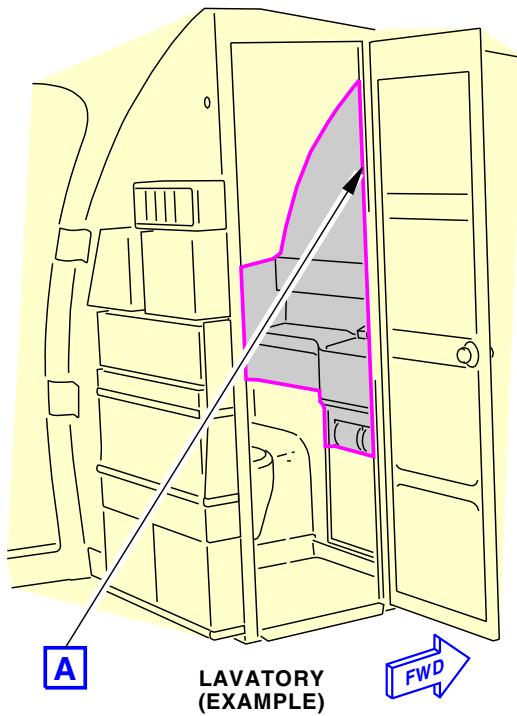
———— END OF TASK ————

— EFFECTIVITY —  
LOM ALL

**33-26-03**

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D633A101-LOM



F88667 S0006576072\_V3

**Lavatory Light - Lamp Replacement**  
Figure 202/33-26-03-990-801 (Sheet 1 of 3)

EFFECTIVITY  
LOM ALL

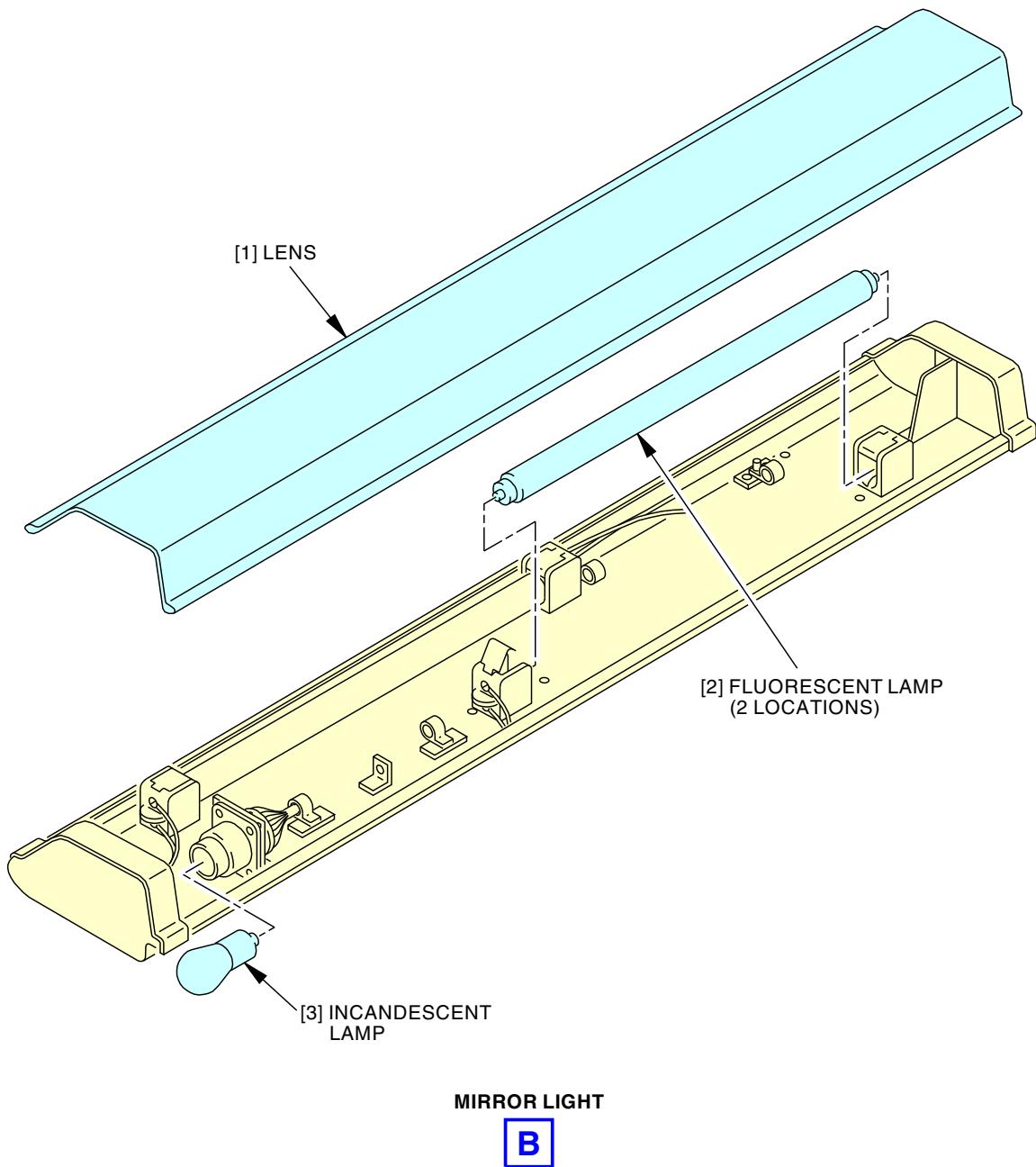
**33-26-03**

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ECCN 9E991 BOEING PROPRIETARY - See title page for details



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AIRCRAFT MAINTENANCE MANUAL



F89455 S0006576073\_V2

Lavatory Light - Lamp Replacement  
Figure 202/33-26-03-990-801 (Sheet 2 of 3)

EFFECTIVITY  
LOM ALL

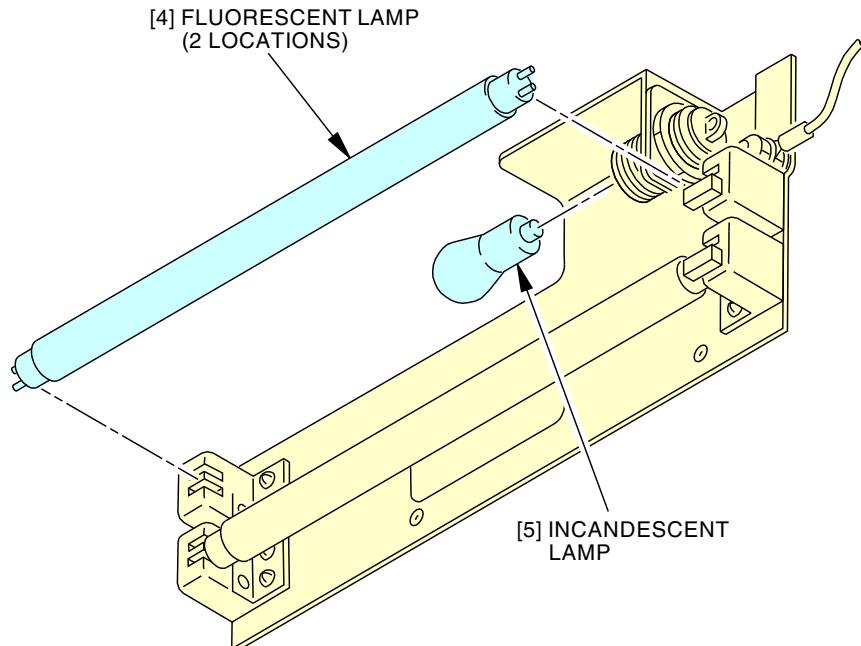
**33-26-03**

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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



MIRROR LIGHT

C

F89495 S0006576074\_V2

Lavatory Light - Lamp Replacement  
Figure 202/33-26-03-990-801 (Sheet 3 of 3)

EFFECTIVITY  
LOM ALL

**33-26-03**

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**TASK 33-26-03-960-802**

**5. Lavatory Light - Ballast Replacement**

(Figure 203)

**A. References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
WDM 33-26-31	Wiring Diagram Manual

**B. Location Zones**

Zone	Area
200	Upper Half of Fuselage

**C. Procedure**

SUBTASK 33-26-03-860-003

- (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, 422-426

E      14      C00163      LAVATORY MIRROR LIGHT

LOM 427-434, 437-447, 450-999

E      14      C01648      LAVATORY MIRROR LIGHT

**LOM ALL**

SUBTASK 33-26-03-960-003

- (2) For the ballast with plug in electrical connector, do these steps:

- (a) Lower the lavatory ceiling panel (WDM 33-26-31).
- (b) Disconnect the electrical connector [23].
- (c) Remove the screws [21] and washers [24].
- (d) Replace the ballast [22].
- (e) Install the washers [24] and screws [21].
- (f) Connect the electrical connector [23].

SUBTASK 33-26-03-960-007

- (3) For the ballast with terminals, do these steps:

- (a) Press the mirror door release button below the corner of the mirror.
  - 1) Open the mirror door.
- (b) Remove the ballast cover.
- (c) Remove the terminal lugs.
- (d) Remove the screws [25] and washers [26].
- (e) Replace the ballast [27].
- (f) Install the washers [26] and screws [25].
- (g) Install the terminal lugs.
- (h) Install the ballast cover.
- (i) Close the mirror door.



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SUBTASK 33-26-03-860-004

- (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>
------------	------------	---------------	-------------

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426			
--	--	--	--

E	14	C00163	LAVATORY MIRROR LIGHT
---	----	--------	-----------------------

LOM 427-434, 437-447, 450-999			
-------------------------------	--	--	--

E	14	C01648	LAVATORY MIRROR LIGHT
---	----	--------	-----------------------

**LOM ALL**

SUBTASK 33-26-03-010-002

- (5) Close the lavatory ceiling panel.

SUBTASK 33-26-03-860-011

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

SUBTASK 33-26-03-710-003

- (7) Do a test of the new ballast:

NOTE: The ballast is energized when electrical power is supplied to the airplane.

- (a) Make sure the fluorescent lavatory lights come on.

SUBTASK 33-26-03-860-012

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

———— END OF TASK ————

— EFFECTIVITY —  
**LOM ALL**

**33-26-03**

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F89499 S0006576076\_V2

**Lavatory Light - Ballast Replacement**  
Figure 203/33-26-03-990-802 (Sheet 1 of 3)

EFFECTIVITY  
LOM ALL

**33-26-03**

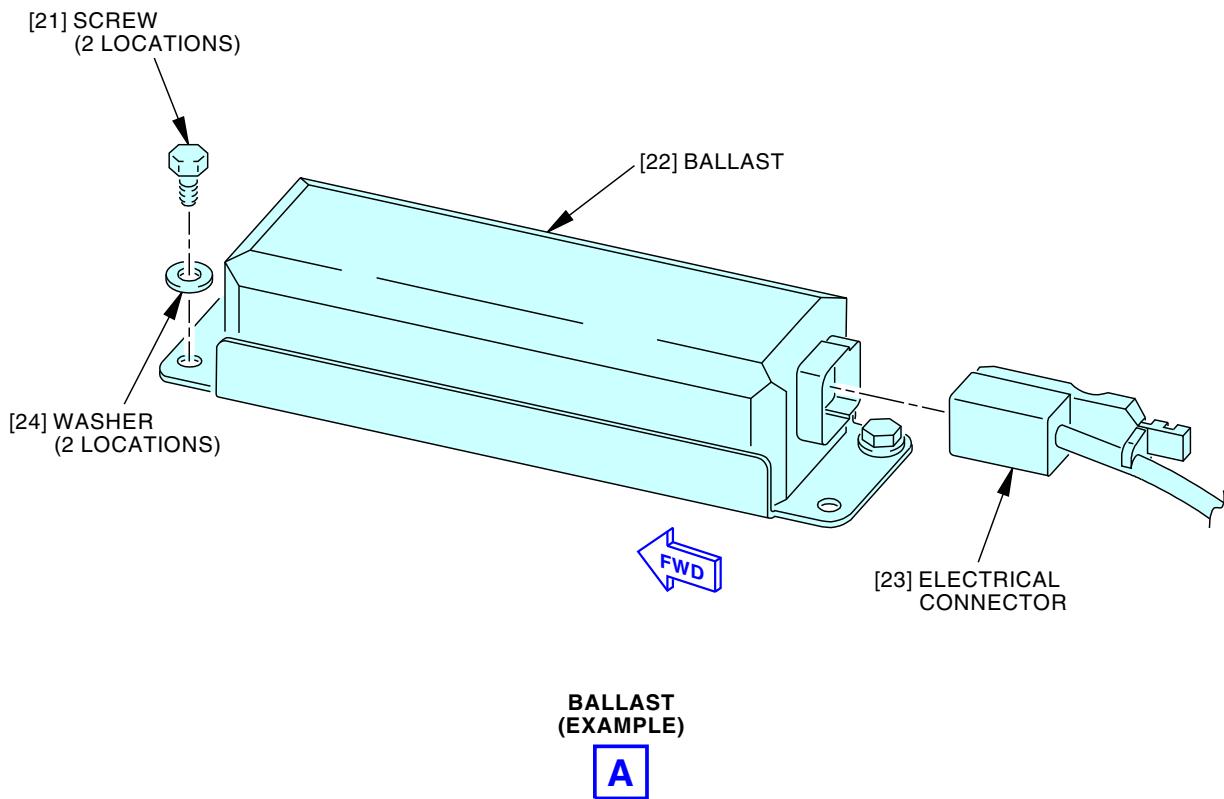
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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F89500 S0006576077\_V3

Lavatory Light - Ballast Replacement  
Figure 203/33-26-03-990-802 (Sheet 2 of 3)

EFFECTIVITY  
LOM ALL

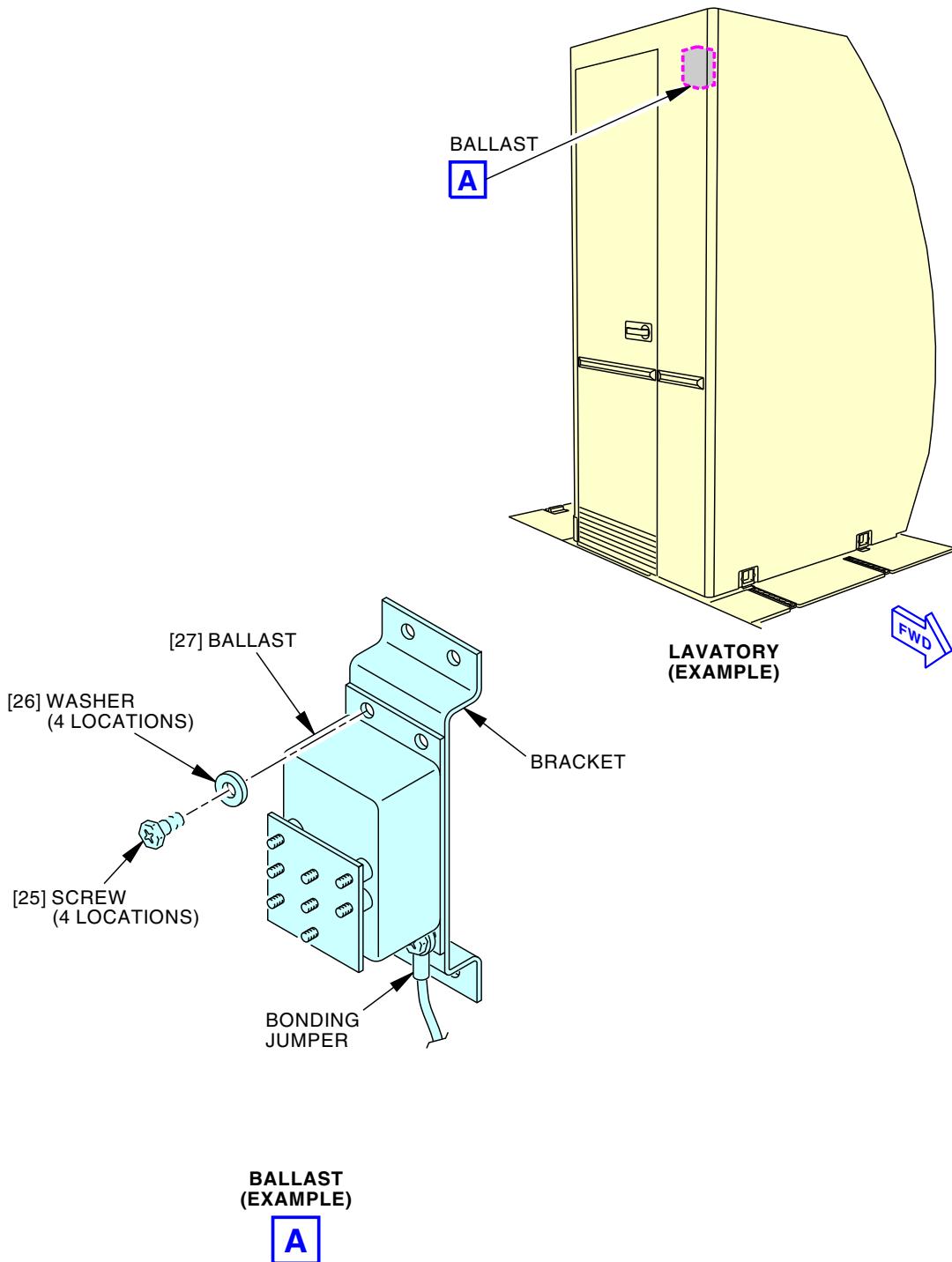
**33-26-03**

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2188123 S0000485300\_V2

**Lavatory Light - Ballast Replacement**  
**Figure 203/33-26-03-990-802 (Sheet 3 of 3)**

EFFECTIVITY	LOM ALL
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**TASK 33-26-03-960-808**

**6. Lavatory Light - LED Light Replacement**

(Figure 204)

**A. References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
WDM 33-26-31	Wiring Diagram Manual

**B. Location Zones**

Zone	Area
200	Upper Half of Fuselage

**C. Procedure**

SUBTASK 33-26-03-860-029



**WARNING**

REMOVE ELECTRICAL POWER FROM THE COMPONENT. IF YOU DO NOT REMOVE ELECTRICAL POWER, YOU CAN CAUSE INJURIES TO PERSONNEL AND DAMAGE TO EQUIPMENT.

- (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, 422-434, 437-447, 450-999**

    A      8      C01403      PASSENGER CABIN PASS CALL LEFT

**LOM 404, 407 PRE SB 737-30A1063**

    D      9      C01217      PASS CAB SIGNS LAV OCC SIGN

**LOM 402, 406, 411, 412, 415, 416, 422-434, 437-447, 450-999; LOM 404, 407, 420 POST SB 737-30A1063**

    D      10      C01217      PASS CAB SIGNS LAV OCC SIGN

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

    E      14      C00163      LAVATORY MIRROR LIGHT

**LOM 427-434, 437-447, 450-999**

    E      14      C01648      LAVATORY MIRROR LIGHT

**LOM ALL**

SUBTASK 33-26-03-960-008

- (2) Do these steps to replace the LED lights (WDM 33-26-31):

- (a) Remove the applicable light cover or mirror door.
- (b) Disconnect the connector of applicable LED light.
- (c) Replace the LED light.
- (d) Connect the connector of the new LED light.
- (e) Install the applicable light cover or mirror door.

EFFECTIVITY  
**LOM ALL**

**33-26-03**



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

SUBTASK 33-26-03-860-030

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

**CAPT Electrical System Panel, P18-3**

Row    Col    Number    Name

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

A        8        C01403        PASSENGER CABIN PASS CALL LEFT

**LOM 404, 407 PRE SB 737-30A1063**

D        9        C01217        PASS CAB SIGNS LAV OCC SIGN

**LOM 402, 406, 411, 412, 415, 416, 422-434, 437-447, 450-999; LOM 404, 407, 420 POST SB 737-30A1063**

D        10      C01217      PASS CAB SIGNS LAV OCC SIGN

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

E        14      C00163      LAVATORY MIRROR LIGHT

**LOM 427-434, 437-447, 450-999**

E        14      C01648      LAVATORY MIRROR LIGHT

**LOM ALL**

SUBTASK 33-26-03-860-031

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

SUBTASK 33-26-03-710-009

- (5) Do the test of the new LED light:

NOTE: The lavatory LED lights are energized when electrical power is supplied to the airplane and the Lav door is closed.

- (a) Make sure the LED light comes on.

SUBTASK 33-26-03-860-032

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

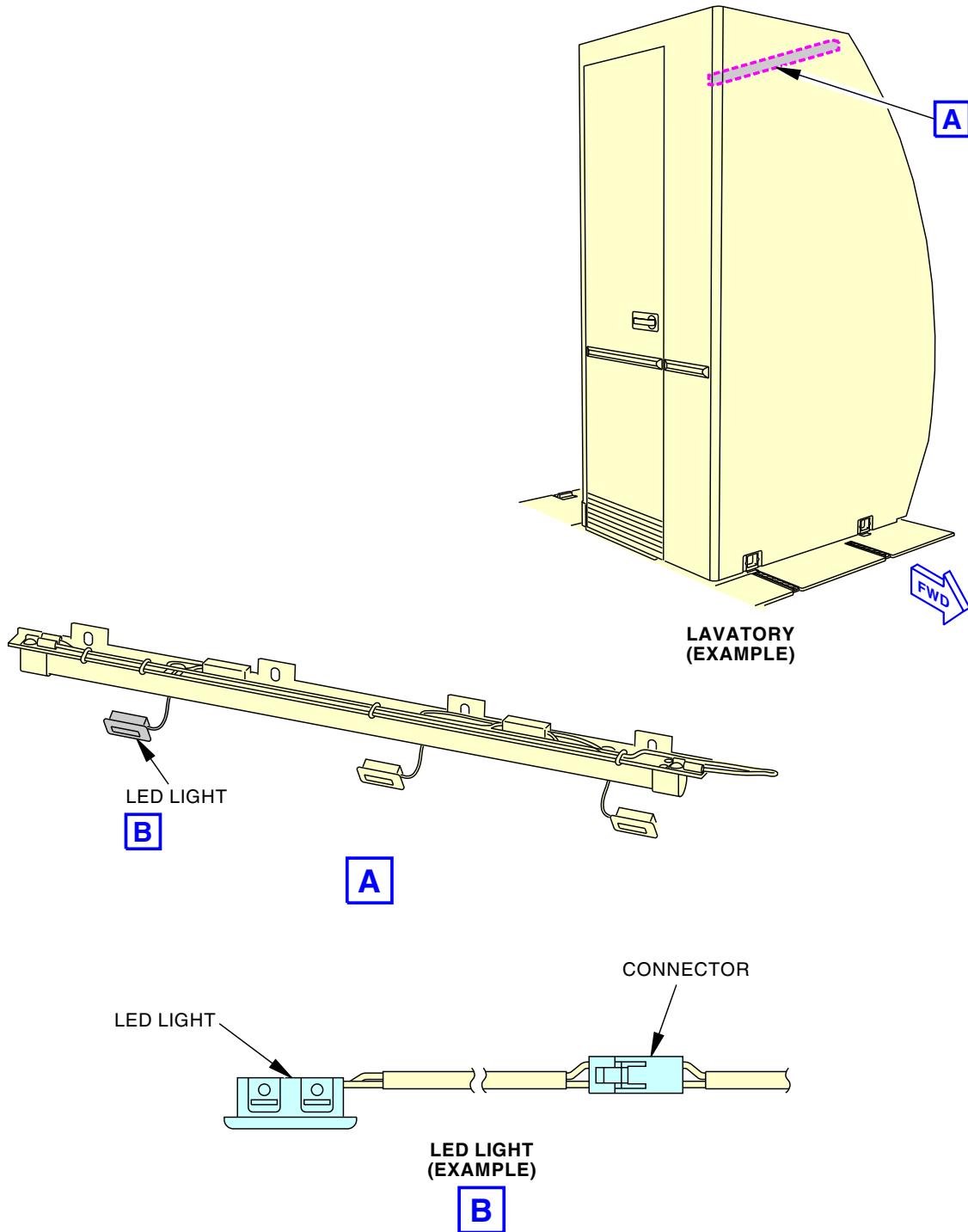
———— END OF TASK ————

EFFECTIVITY  
**LOM ALL**

**33-26-03**



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2188088 S0000485322\_V2

**Lavatory Light - LED Light Replacement**  
Figure 204/33-26-03-990-809

EFFECTIVITY  
LOM ALL

**33-26-03**

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details



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**TASK 33-26-03-960-803**

**7. Lavatory-Occupied Sign - Light Assembly Replacement**

(Figure 205 or Figure 206)

**A. References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
WDM 33-26-31	Wiring Diagram Manual

**B. Location Zones**

Zone	Area
200	Upper Half of Fuselage

**C. Procedure**

SUBTASK 33-26-03-860-005

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

**CAPT Electrical System Panel, P18-3**

Row   Col   Number   Name

**LOM 404, 407 PRE SB 737-30A1063**

D      9      C01217      PASS CAB SIGNS LAV OCC SIGN

**LOM 402, 406, 411, 412, 415, 416, 422-434, 437-447, 450-999; LOM 404, 407, 420 POST SB 737-30A1063**

D      10      C01217      PASS CAB SIGNS LAV OCC SIGN

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

SUBTASK 33-26-03-010-003

- (2) Lower the recessed ceiling panel. (WDM 33-26-31)

SUBTASK 33-26-03-960-001

- (3) Do these steps to replace the sign :

- (a) Disconnect the electrical connector [42].
- (b) From the bottom of the panel, push the sign [41] out of the recessed ceiling panel.
- (c) Loosen the screw [43] and pull the electrical wire through the strap [44] on the recessed ceiling panel.
- (d) From the top of the panel, put the new sign [41] in the recessed ceiling panel.
- (e) Put the electrical wire through the strap [44] and tighten the screw [43].
- (f) Connect the electrical connector [42].

SUBTASK 33-26-03-010-004

- (4) Close the recessed ceiling panel.

**LOM 427-434, 437-447, 450-999**

SUBTASK 33-26-03-960-004

- (5) Do these steps to replace the sign [41]:

- (a) Do these steps to remove the sign [41]:

- 1) Use a thin flat screw driver or an equivalent tool at the small opening to release the sign [41] from the retainer at the rear.

NOTE: The retainer holds the sign to the panel.

EFFECTIVITY  
**LOM ALL**

**33-26-03**



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

**LOM 427-434, 437-447, 450-999 (Continued)**

- 2) Disconnect the electrical connectors [42].
  - 3) Remove the sign [41].
- (b) Do these steps to remove the sign [41]:
- 1) Connect the electrical connectors [42] to the sign [41].
  - 2) Push the connector cables into the mounting hole.
  - 3) Push the sign [41] into the mounting hole.
    - a) Make sure that the retainer holds the sign [41] in the panel correctly.

**LOM ALL**

SUBTASK 33-26-03-860-006

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

**CAPT Electrical System Panel, P18-3**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
------------	------------	---------------	-------------

**LOM 404, 407 PRE SB 737-30A1063**

D	9	C01217	PASS CAB SIGNS LAV OCC SIGN
---	---	--------	-----------------------------

**LOM 402, 406, 411, 412, 415, 416, 422-434, 437-447, 450-999; LOM 404, 407, 420 POST SB 737-30A1063**

D	10	C01217	PASS CAB SIGNS LAV OCC SIGN
---	----	--------	-----------------------------

**LOM ALL**

SUBTASK 33-26-03-860-007

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

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

SUBTASK 33-26-03-710-001

- (8) Do a test of the new sign:

- (a) Make sure the lavatory symbol comes on and the occupied symbol stays off.

NOTE: The lavatory symbol is energized when electrical power is supplied to the airplane.

- (b) Close and lock the lavatory door.

- 1) Make sure the occupied symbol comes on.

- (c) Unlock and open the lavatory door.

- 1) Make sure the occupied symbol goes off and the lavatory symbol stays on.

**LOM 427-434, 437-447, 450-999**

SUBTASK 33-26-03-710-010

- (9) Do a test of the new sign:

- (a) Close and lock the lavatory door(s).

- 1) Make sure the lavatory occupied symbol comes on.

- (b) Unlock and open the lavatory door(s).

- 1) Make sure the lavatory occupied symbol goes off.

**LOM ALL**



**33-26-03**



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

SUBTASK 33-26-03-860-008

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

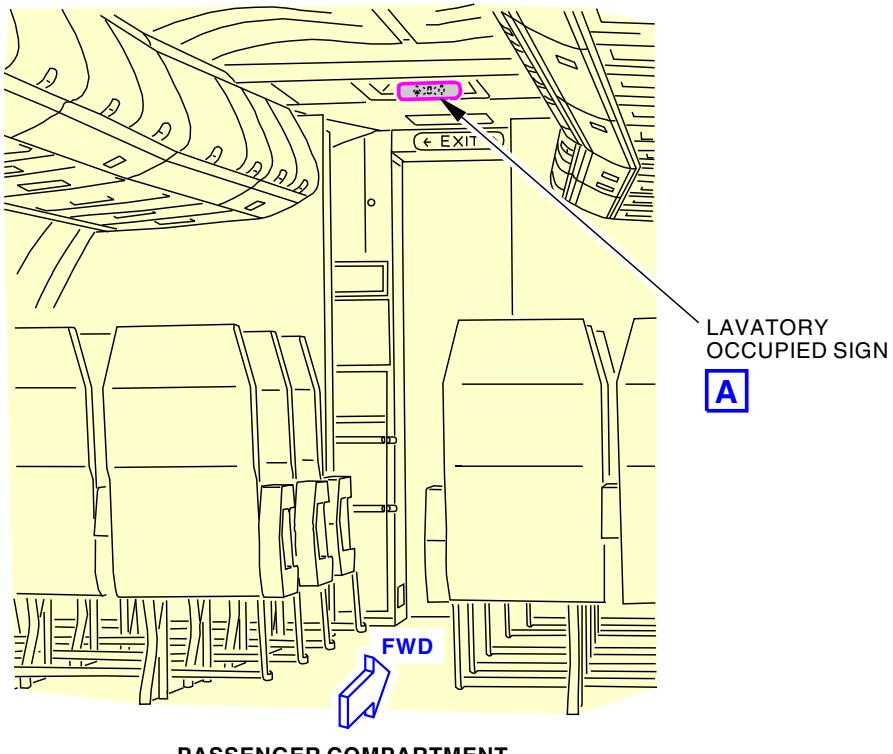
———— END OF TASK ——

— EFFECTIVITY —  
**LOM ALL**

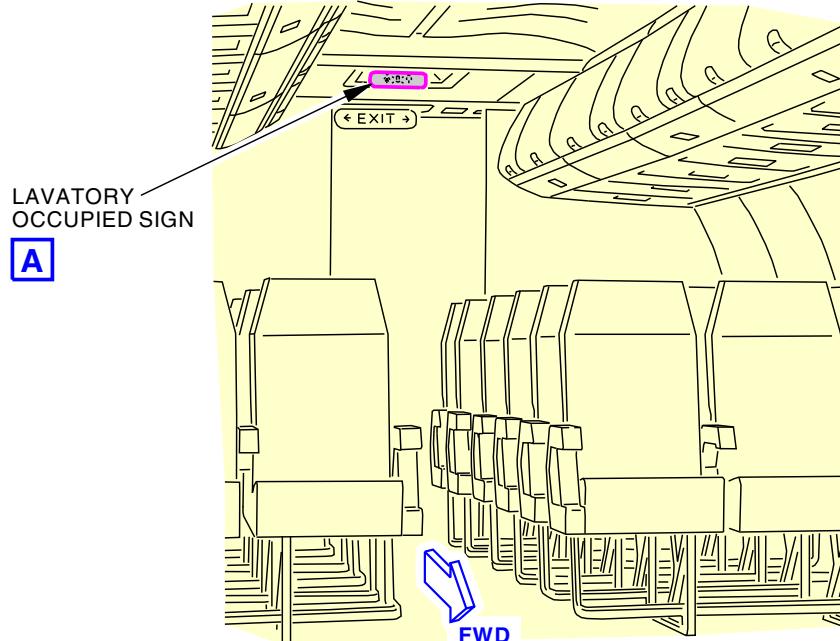
**33-26-03**

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D633A101-LOM



PASSENGER COMPARTMENT



PASSENGER COMPARTMENT

F88514 S0006576079\_V2

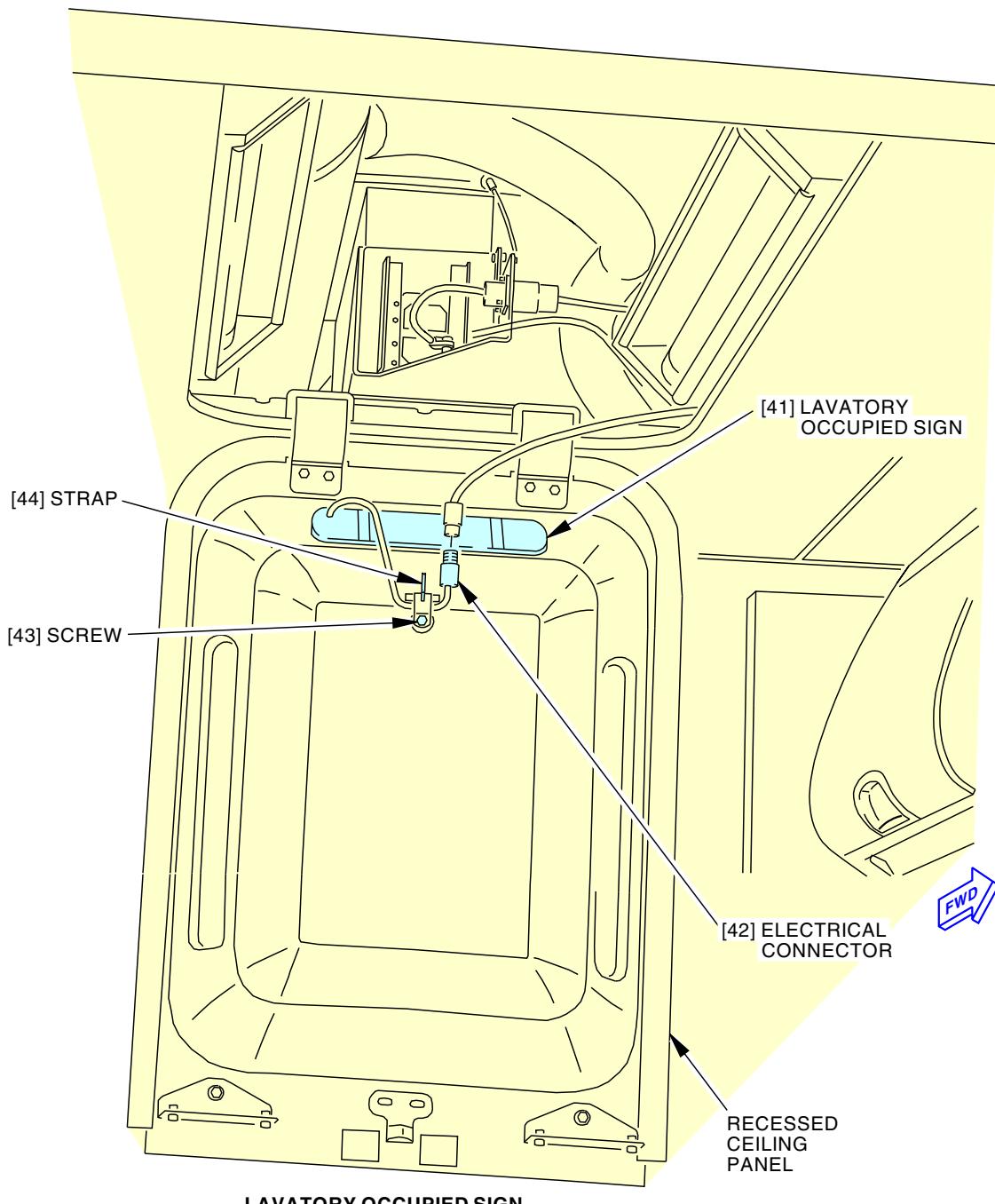
**Lavatory Occupied Sign - Light Assembly Replacement**  
Figure 205/33-26-03-990-803 (Sheet 1 of 2)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

**33-26-03**

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details



F88578 S0006576080\_V2

**Lavatory Occupied Sign - Light Assembly Replacement**  
Figure 205/33-26-03-990-803 (Sheet 2 of 2)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

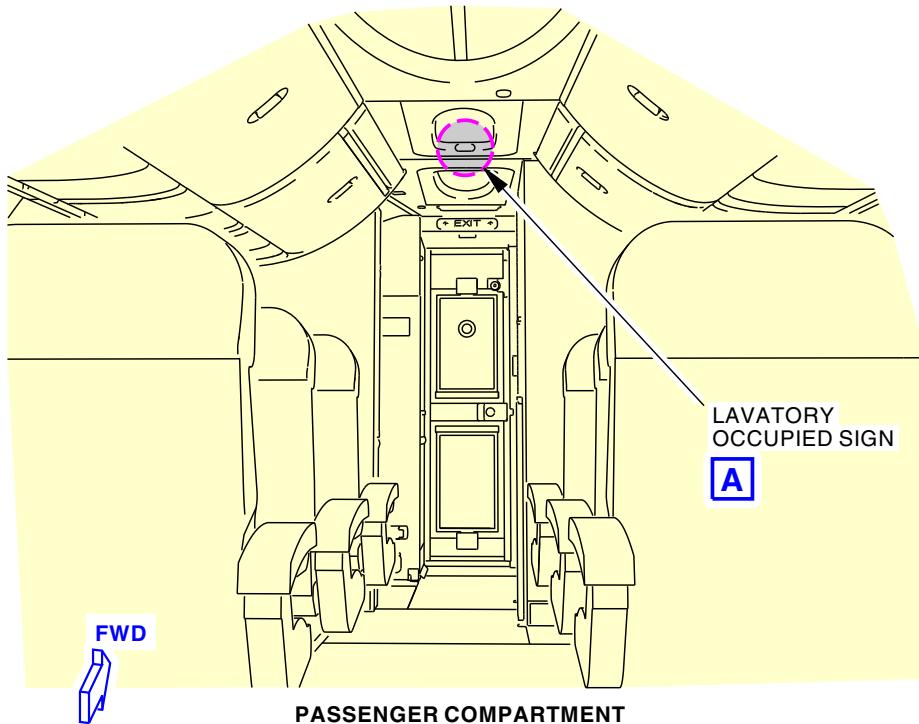
**33-26-03**

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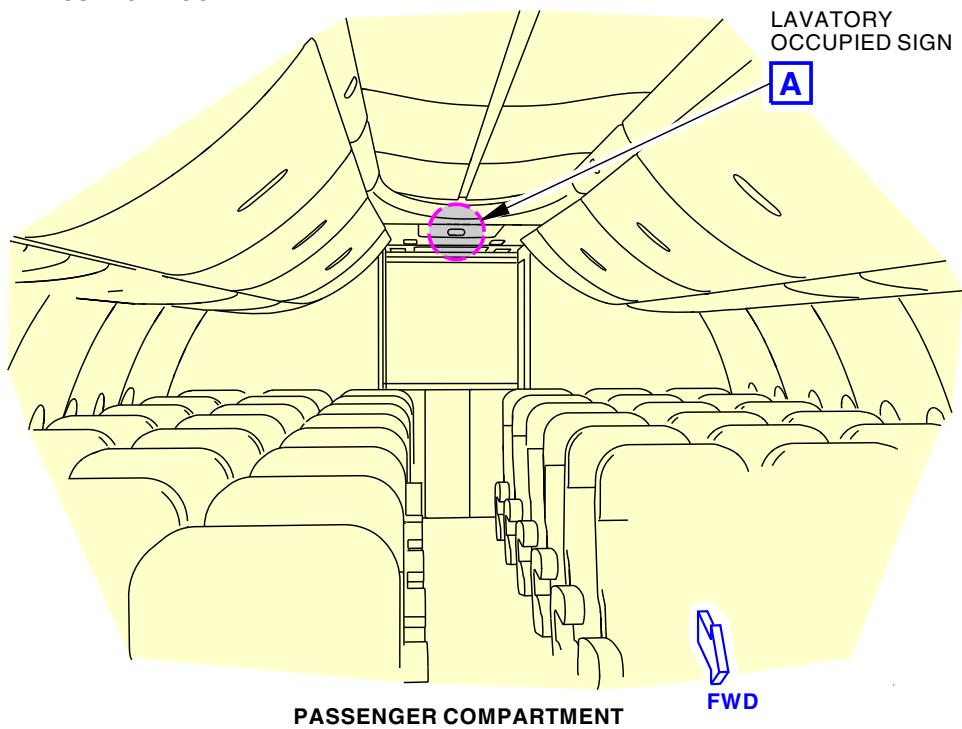
ECCN 9E991 BOEING PROPRIETARY - See title page for details



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



PASSENGER COMPARTMENT



PASSENGER COMPARTMENT

2166966 S0000476812\_V2

Lavatory Occupied Sign - Light Assembly Replacement  
Figure 206/33-26-03-990-805 (Sheet 1 of 2)

EFFECTIVITY  
LOM 427-434, 437-447, 450-999

**33-26-03**

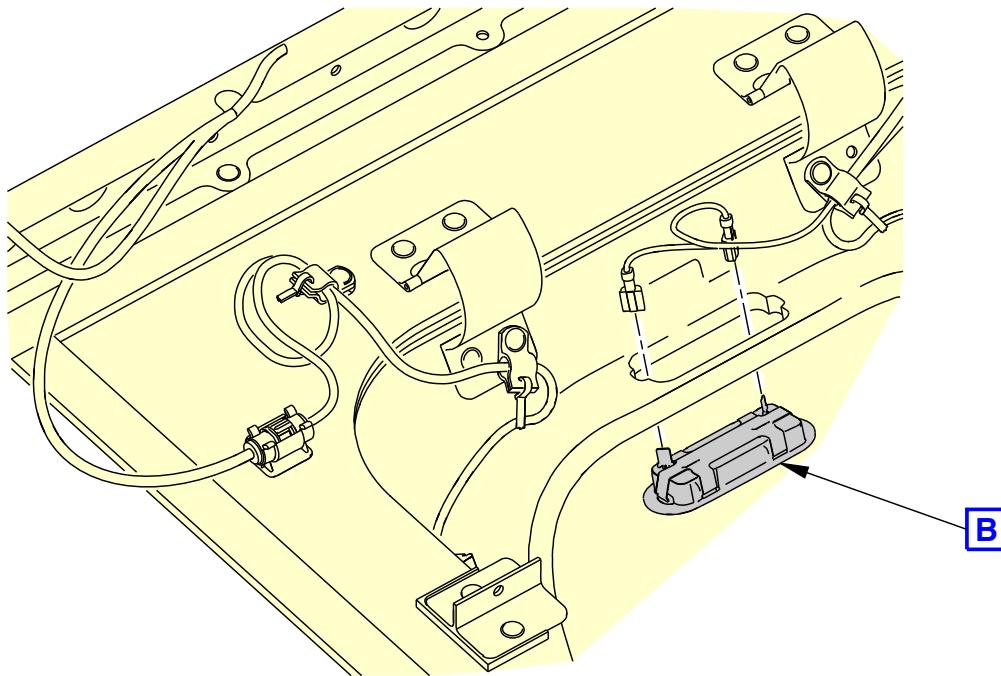
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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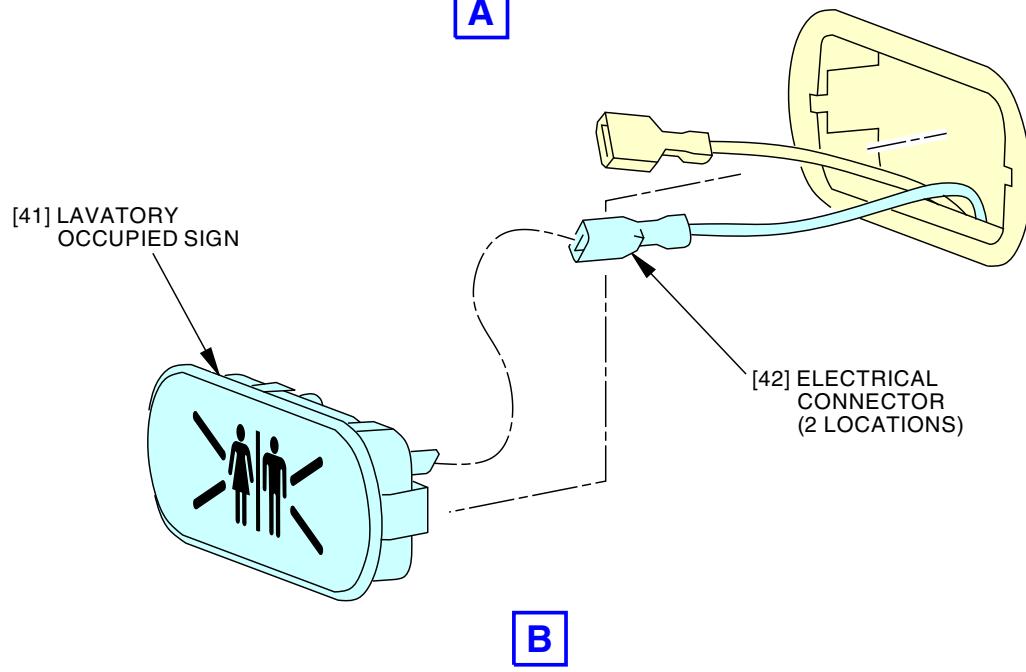
 BOEING

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LAVATORY OCCUPIED SIGN

[A]



[B]

2167033 S0000476813\_V2

**Lavatory Occupied Sign - Light Assembly Replacement**  
**Figure 206/33-26-03-990-805 (Sheet 2 of 2)**

EFFECTIVITY  
LOM 427-434, 437-447, 450-999

**33-26-03**

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LOM 446, 447, 455, 456

**TASK 33-26-03-960-804**

**8. Lavatory Door Switch - Adjustment/Replacement**

(Figure 207)

**A. References**

Reference	Title
33-20-00-710-804-001	Passenger Compartment Lights - Operational Test (P/B 501)
WDM 33-26-31	Wiring Diagram Manual

**B. Location Zones**

Zone	Area
200	Upper Half of Fuselage

**C. Lavatory Door Switch - Adjustment/Replacement**

WDM 33-26-31

NOTE: The Door Switch has two sets of contacts. One set controls the lavatory occupied sign. The other set controls the mirror light.

SUBTASK 33-26-03-860-013

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

**CAPT Electrical System Panel, P18-3**

Row	Col	Number	Name
D	10	C01217	PASS CAB SIGNS LAV OCC SIGN
E	14	C01648	LAVATORY MIRROR LIGHT

SUBTASK 33-26-03-020-001

- (2) Open or remove the lavatory door.

SUBTASK 33-26-03-020-003

- (3) Do these steps to remove the switch assembly [30]:

- (a) Remove the side surround from the lavatory.
- (b) Remove the two screws [33] attaching the switch assembly [30] to the door jamb.
- (c) Carefully pull the switch assembly [30] out from the door jamb.
- (d) Disconnect the lavatory wiring from the switch assembly [30].

SUBTASK 33-26-03-820-001

- (4) Do these steps to adjust the switch assembly [30]:

- (a) While holding the lever assembly [31] in the up position, adjust the two screws [32] so the microswitch just operates, then continue 1/4 turn more.

NOTE: Use a small screwdriver or any appropriate tool that will move the lever assembly towards the microswitch.

SUBTASK 33-26-03-970-001

- (5) Do these steps to install the switch assembly [30]:

- (a) Connect the lavatory wiring to the switch assembly [30].
- (b) Put the switch assembly [30] back into the door jamb.
- (c) Make sure that the wires are not pinched between the switch assembly [30] and the door jamb.

EFFECTIVITY  
LOM ALL

**33-26-03**



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

**LOM 446, 447, 455, 456 (Continued)**

- (d) Attach the switch assembly with the two screws [33].
- (e) Install the side surround.

SUBTASK 33-26-03-860-014

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

**CAPT Electrical System Panel, P18-3**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	10	C01217	PASS CAB SIGNS LAV OCC SIGN
E	14	C01648	LAVATORY MIRROR LIGHT

SUBTASK 33-26-03-410-002

- (7) If removed, re-install the lavatory door.

SUBTASK 33-26-03-710-004

- (8) Do the test of the lavatory mirror lights (TASK 33-20-00-710-804-001).

———— END OF TASK ————

— EFFECTIVITY —  
LOM ALL

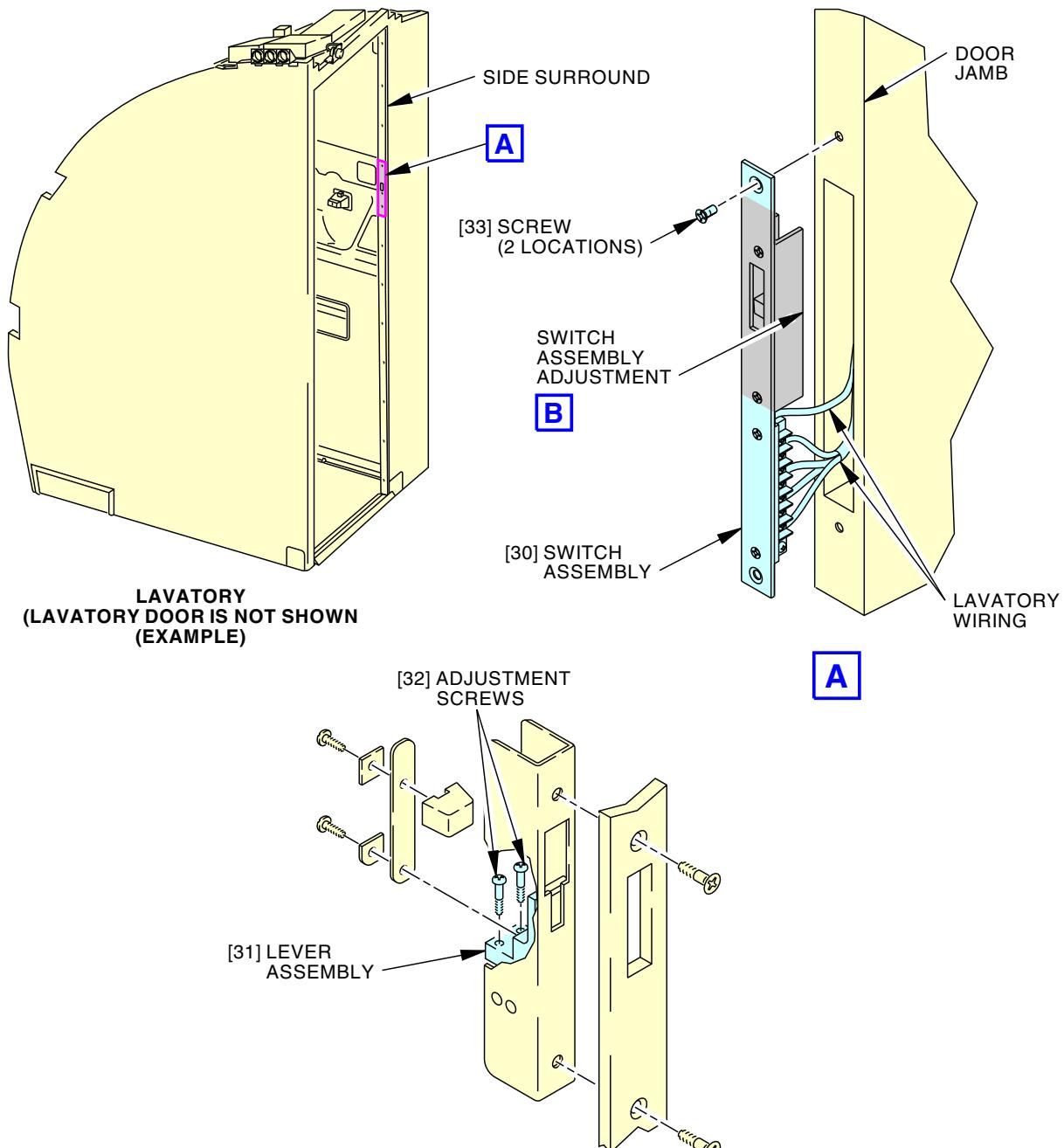
**33-26-03**

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AIRCRAFT MAINTENANCE MANUAL



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Lavatory Door Switch - Adjustment/Replacement  
Figure 207/33-26-03-990-804

EFFECTIVITY  
LOM 446, 447, 455, 456

**33-26-03**

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AIRCRAFT MAINTENANCE MANUAL

LOM ALL

**TASK 33-26-03-960-809**

**9. Lavatory Door Switch - Replacement**

(Figure 208)

**A. General**

- (1) This task provides instructions to replace the lavatory door switch assembly.

LOM 465-999

- (2) There are 3 lavatory options:

- Lavatory without bi-fold doors.
- Lavatory with bi-fold doors.
- Lavatory with dual bi-fold doors and 2 switch assemblies.

LOM ALL

**B. References**

Reference	Title
33-20-00-710-801-001	Passenger Compartment Lights - Operational Test (P/B 501)
33-20-00-710-804-001	Passenger Compartment Lights - Operational Test (P/B 501)

**C. Consumable Materials**

Reference	Description	Specification
A50419	Sealant - Pressure And Environmental-Chromate, Type I, Class B-2	BMS5-95 Type I Class B-2
B00130	Alcohol - Isopropyl	TT-I-735

**D. Location Zones**

Zone	Area
200	Upper Half of Fuselage

**E. Prepare for the Replacement**

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

SUBTASK 33-26-03-860-035

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

**CAPT Electrical System Panel, P18-3**

**Row Col Number Name**

**LOM 404, 407 PRE SB 737-30A1063**

D 9 C01217 PASS CAB SIGNS LAV OCC SIGN

**LOM 402, 406, 411, 412, 415, 416, 422-434, 437-447, 450-464; LOM 404, 407, 420 POST SB 737-30A1063**

D 10 C01217 PASS CAB SIGNS LAV OCC SIGN

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

E 14 C00163 LAVATORY MIRROR LIGHT

**LOM 427-434, 437-447, 450-464**

E 14 C01648 LAVATORY MIRROR LIGHT

EFFECTIVITY	
LOM ALL	

**33-26-03**



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**LOM 465-999**

SUBTASK 33-26-03-860-036

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

**CAPT Electrical System Panel, P18-3**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	8	C01403	PASSENGER CABIN PASS CALL LEFT
B	8	C01404	PASSENGER CABIN PASS CALL RIGHT

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

SUBTASK 33-26-03-010-005

- (3) Open or remove the lavatory door.

**LOM 465-999**

SUBTASK 33-26-03-010-006

- (4) For lavatories without the bi-fold door, open the lavatory door.

SUBTASK 33-26-03-010-007

- (5) For lavatories with the bi-fold door(s), remove the lavatory door(s).

**LOM ALL**

**F. Lavatory Door Switch Replacement**

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

SUBTASK 33-26-03-960-009

- (1) Replace the switch assembly [60] as follows:
- Remove the screws [67] that attach the switch assembly [60] to the door jamb.
  - Carefully pull the switch assembly [60] with the door trim [69] out from the door jamb.
  - Remove the screws [68] that attach the switch assembly [60] to the door trim [69].
  - Disconnect the lavatory connector [66] from the switch assembly [60].
  - Remove the screw [61], washer [62], washer [64], and nut [65], to disconnect the terminal lug [63] from the switch assembly [60].
  - Replace the switch assembly [60].
  - Clean the mating surfaces of screw [61], washer [62], washer [64], nut [65], terminal lug [63], and switch assembly [60] with the alcohol, B00130.
  - Connect the terminal lug [63] to the switch assembly [60] with the screw [61], washer [62], washer [64], and nut [65].
    - If applicable, seal the connection with the sealant, A50419.
  - Connect the lavatory connector [66] to the switch assembly [60].
  - Install the screws [68] to attach the switch assembly [60] to the door trim [69].
  - Put the switch assembly [60] with the door trim [69] into the door jamb.
  - Make sure that the wires are not pinched between the switch assembly [60] and door jamb.
  - Attach the door trim [69] with the screws [67].



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**LOM 465-999**

**SUBTASK 33-26-03-960-010**

- (2) For lavatory without bi-fold doors, replace the switch assembly [50] as follows:
  - (a) Remove the screws [59] that attach the switch assembly [50] to the door jamb.
  - (b) Carefully pull the switch assembly [50] out from the door jamb.
  - (c) Disconnect the lavatory wiring.
  - (d) Replace the switch assembly [50].
  - (e) Connect the lavatory wiring.
  - (f) Put the switch assembly [50] into the door jamb.
  - (g) Make sure that the wires are not pinched between the switch assembly [50] and door jamb.
  - (h) Attach the switch assembly [50] with the screws [59].

**SUBTASK 33-26-03-960-011**

- (3) For lavatory with bi-fold doors and 1 switch assembly, replace the switch assembly [70] as follows:
  - (a) Remove the screws [54] that attach the slide rail [53], rail edge trim [52], spacer [51] (if installed), and switch assembly [70] to the header assembly.
  - (b) Disconnect the lavatory wiring.
    - 1) If it is necessary, release the lavatory wiring from the switch assembly [70].
  - (c) Replace the switch assembly [70].
  - (d) Connect the lavatory wiring.
    - 1) If released, attach the lavatory wiring to the switch assembly [70].
  - (e) Attach the slide rail [53], rail edge trim [52], spacer [51] (if removed), and switch assembly [70] to the header assembly with the screws [54].
    - 1) Put the rail edge trim [52] above the slide rail [53].
    - 2) Put the screws [54] up and through the slide rail [53] and rail edge trim [52].

**NOTE:** It can be easiest to tape the heads of the screws until they can be tightened.

    - 3) If applicable, make sure that the carriage is in the slide rail [53] slot.
    - 4) Put the slide rail [53] and rail edge trim [52] so the screws [54] align with the holes inside the header assembly.
    - 5) Put the spacer [51] (if removed) above the slide rail [53] and rail edge trim [52].
    - 6) Put the switch assembly [70] into the hole in the header assembly.
    - 7) Make sure that the wires are not pinched between the switch assembly [70] and header assembly.
    - 8) Make sure that the actuator on the switch assembly [70] lines up with the hole in the rail edge trim [52] and slide rail [53].
    - 9) Tighten the screws [54].

**SUBTASK 33-26-03-960-012**

- (4) For lavatory with bi-fold doors and 2 switch assemblies, replace the switch assembly [71] as follows:

EFFECTIVITY  
LOM ALL

**33-26-03**



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**AIRCRAFT MAINTENANCE MANUAL**

**LOM 465-999 (Continued)**

- (a) Remove the screws [56] that attach the slide rail [58] and rail edge trim [55] to the header assembly.
- (b) Disconnect the lavatory wiring.
- (c) Remove the applicable screws [57] that attach the switch assembly [71] to the slide rail [58].
- (d) Replace the applicable switch assembly [71].
- (e) Connect the lavatory wiring.
- (f) Put the rail edge trim [55] above the slide rail [58].
- (g) Install the screws [57] to attach the switch assembly [71] to the slide rail [58].
- (h) Align the slide rail [58] and rail edge trim [55] holes with holes inside the header assembly.
- (i) Make sure that the wires are not pinched between the switch assembly [71] and header assembly.
- (j) Install the screws [56].

**LOM ALL**

**G. Lavatory Door Switch Installation Test**

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

SUBTASK 33-26-03-860-039

- (1) Make sure that the secondary (service switch) is in the OFF position (switch lever is in the top position).

SUBTASK 33-26-03-410-005

- (2) If removed, re-install the lavatory door.

**LOM 465-999**

SUBTASK 33-26-03-410-006

- (3) For lavatories with the bi-fold door(s), re-install the lavatory door(s).

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

SUBTASK 33-26-03-860-037

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

**CAPT Electrical System Panel, P18-3**

Row   Col   Number   Name

**LOM 404, 407 PRE SB 737-30A1063**

D      9      C01217      PASS CAB SIGNS LAV OCC SIGN

**LOM 402, 406, 411, 412, 415, 416, 422-434, 437-447, 450-464; LOM 404, 407, 420 POST SB 737-30A1063**

D      10      C01217      PASS CAB SIGNS LAV OCC SIGN

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

E      14      C00163      LAVATORY MIRROR LIGHT

**LOM 427-434, 437-447, 450-464**

E      14      C01648      LAVATORY MIRROR LIGHT

EFFECTIVITY			
LOM ALL			

**33-26-03**



**737-600/700/800/900**  
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**LOM 465-999**

SUBTASK 33-26-03-860-038

- (5) 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>
A	8	C01403	PASSENGER CABIN PASS CALL LEFT
B	8	C01404	PASSENGER CABIN PASS CALL RIGHT

**LOM ALL**

SUBTASK 33-26-03-710-011

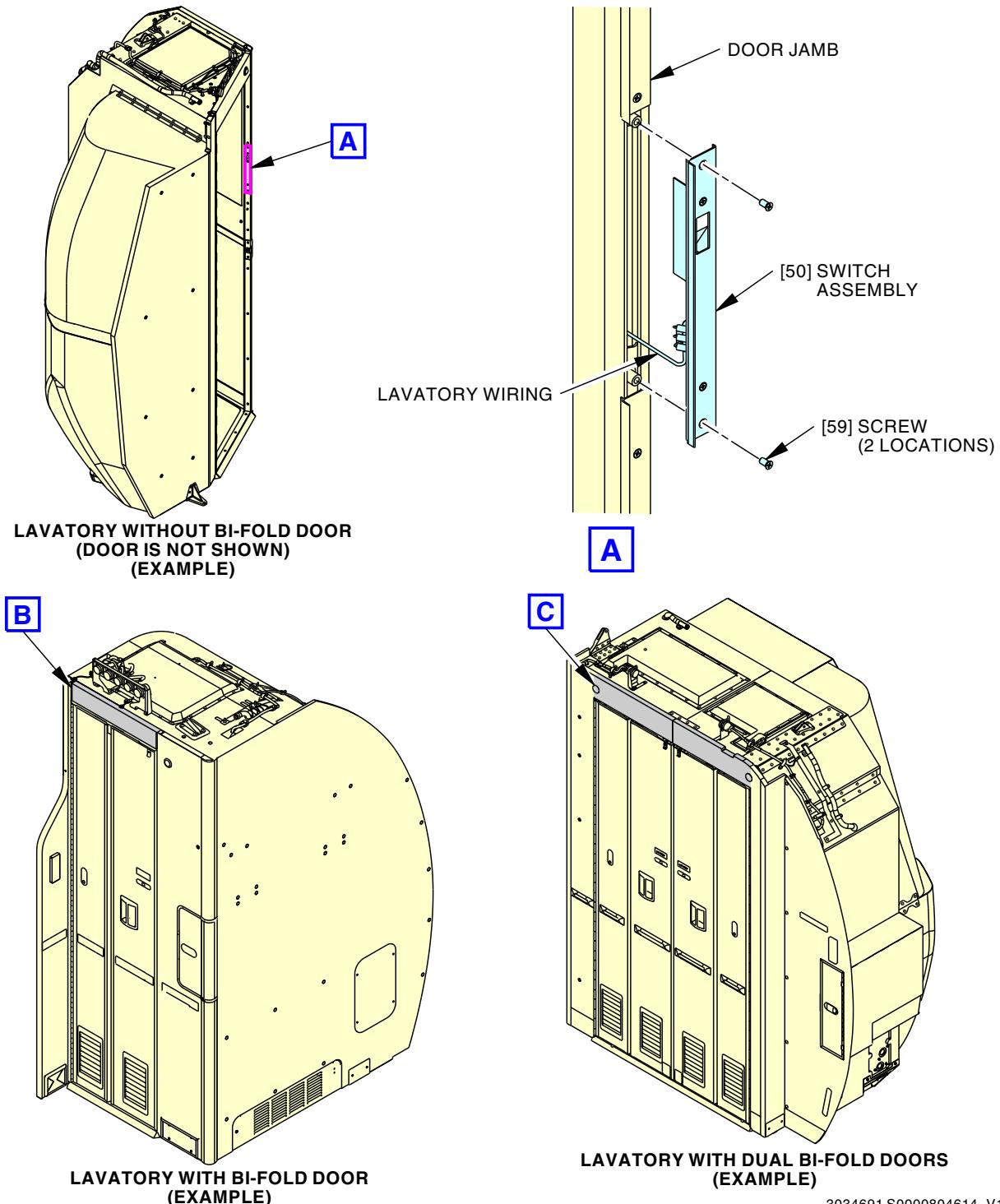
- (6) Do the test of the lavatory mirror lights (TASK 33-20-00-710-801-001 or  
TASK 33-20-00-710-804-001).

———— END OF TASK ————

EFFECTIVITY  
**LOM ALL**

**33-26-03**

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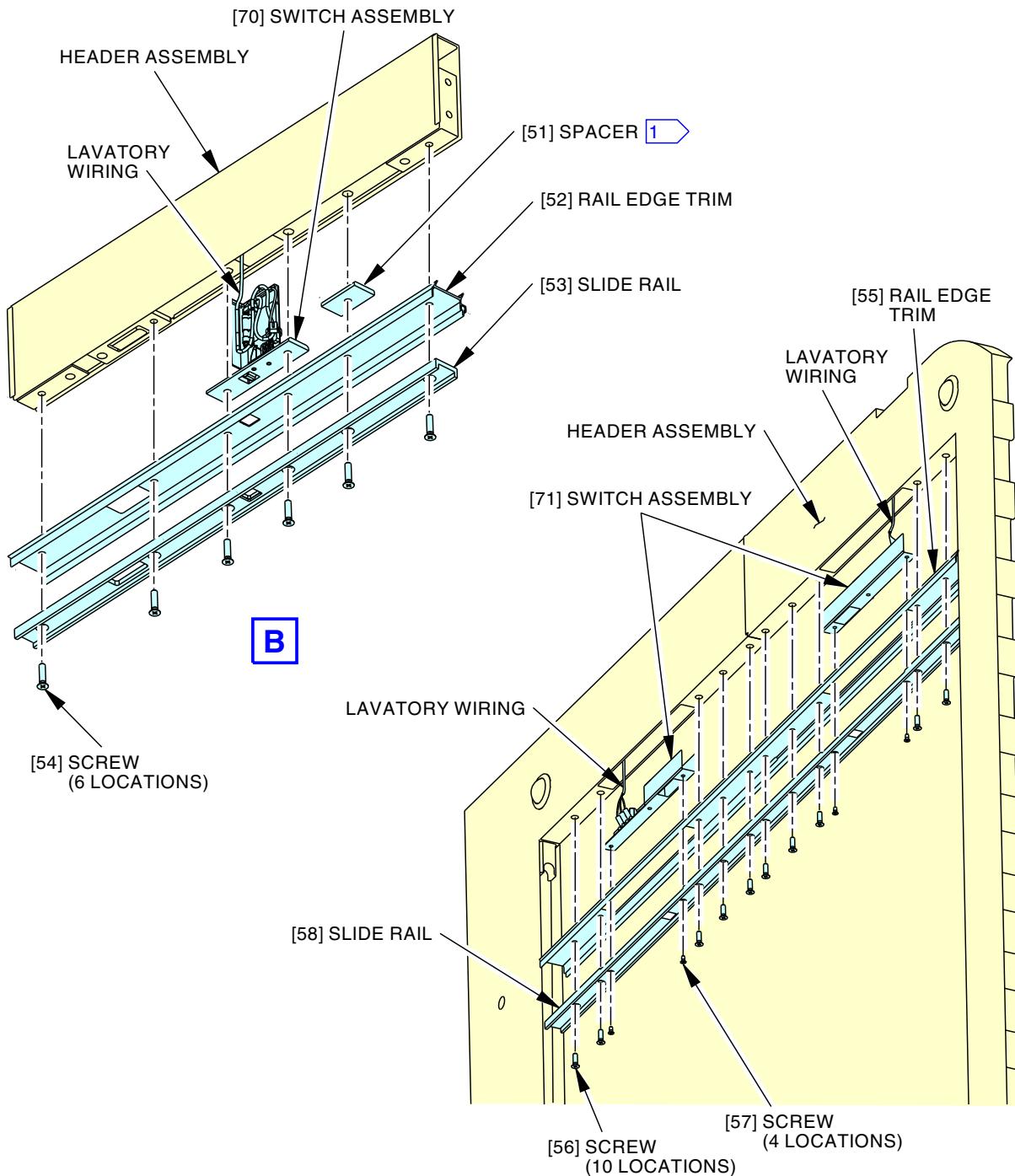
**Lavatory Door Switch - Replacement**  
Figure 208/33-26-03-990-811 (Sheet 1 of 3)

EFFECTIVITY  
LOM 465-999

**33-26-03**



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**1** THE SPACER MAY NOT BE INSTALLED

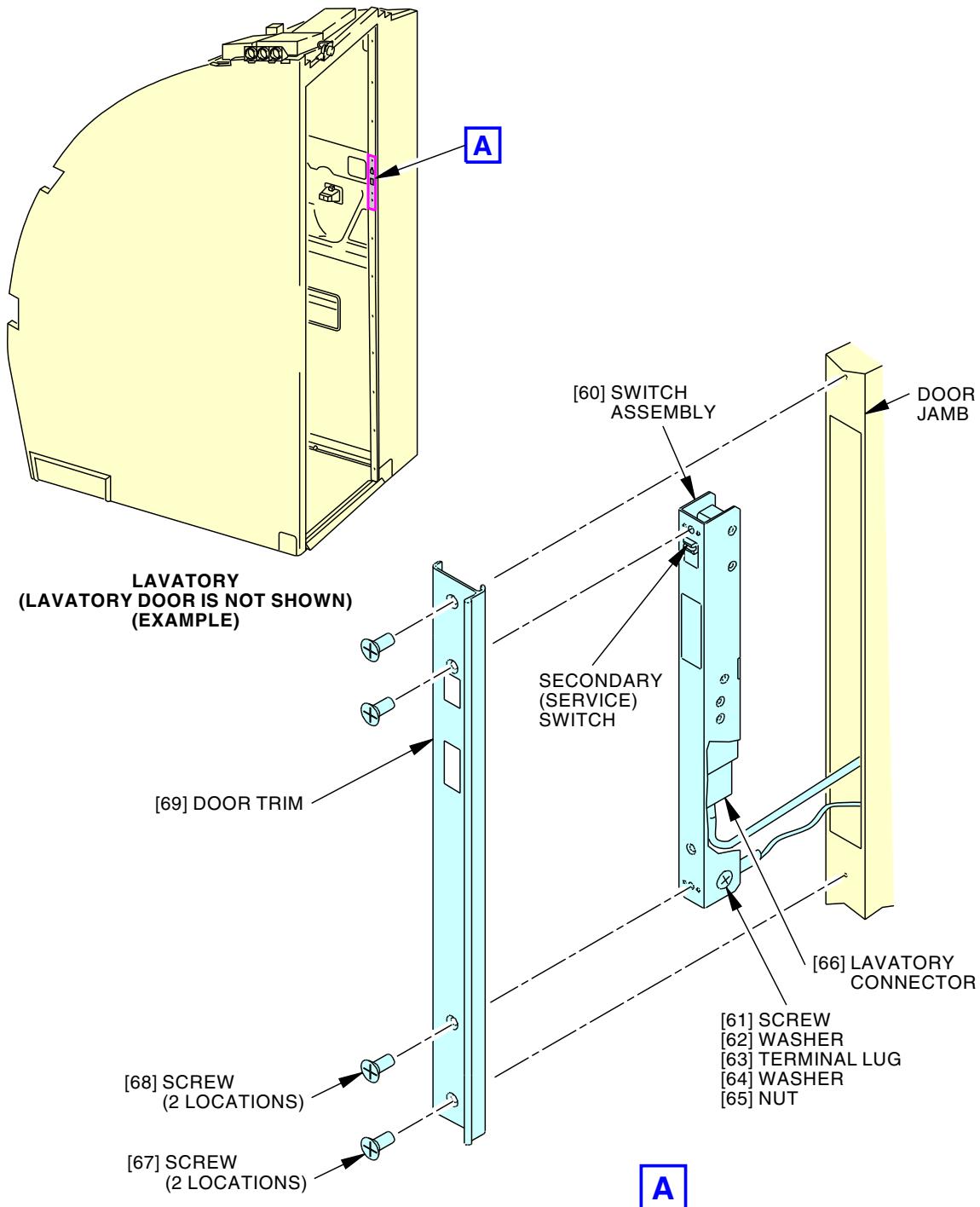
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Lavatory Door Switch - Replacement  
Figure 208/33-26-03-990-811 (Sheet 2 of 3)

EFFECTIVITY  
LOM 465-999

**33-26-03**



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**Lavatory Door Switch - Replacement**  
**Figure 208/33-26-03-990-811 (Sheet 3 of 3)**

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

**33-26-03**

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details



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

CLOSET LIGHTS - MAINTENANCE PRACTICES

**1. General**

- A. This procedure has this task:
- (1) Closet Lights - Replacement.

**TASK 33-26-04-960-801**

**2. Closet Light Assembly - Replacement**

(Figure 201)

**A. References**

Reference	Title
24-22-00 P/B 201	MANUAL CONTROL - MAINTENANCE PRACTICES
33-26-04-710-801	Closet Lights - Operational Test (P/B 501)
52-11-00 P/B 201	FORWARD ENTRY DOOR - MAINTENANCE PRACTICES
SWPM 20-10-12	WIRE HARNESS SUPPORTS
WDM 33-26-51	Wiring Diagram Manual

**B. Consumable Materials**

Reference	Description	Specification
G51367	Strap - Plastic, Adjustable, Self-locking, 3.71 Inches (94.23 mm) Long	BACS38K4

**C. Location Zones**

Zone	Area
231	Forward Passenger Compartment - Forward Entry Door to Sta 663.75 - Left

**D. Closet Light Assembly - Replacement**

**SUBTASK 33-26-04-040-001**

- (1) Remove power from the airplane (MANUAL CONTROL - MAINTENANCE PRACTICES, PAGEBLOCK 24-22-00/201).

**SUBTASK 33-26-04-010-001**

- (2) Open the FWD entry door (FORWARD ENTRY DOOR - MAINTENANCE PRACTICES, PAGEBLOCK 52-11-00/201).

**SUBTASK 33-26-04-010-002**

- (3) Remove the bustle panel assembly [6] to get access to the lights as follows:
  - (a) Open the doors to the closet.
  - (b) Remove the screws [7] from the front face of the bustle panel assembly [6].
  - (c) Remove the screws [8] from the outboard side of the bustle panel assembly [6].

**SUBTASK 33-26-04-000-001**

- (4) Do these steps to replace the applicable accent cove light assembly [1] (WDM 33-26-51):

NOTE: Do not discard the light assembly. Refer to the vendor manual for possible repairs. Do the repairs in a shop.

- (a) Disconnect the electrical connectors [4].
- (b) Remove the straps [3] that tie the wire pigtails together.
- (c) Remove the strap from the clamps [2].
- (d) Remove the electrical wires from the clamp [2].

EFFECTIVITY  
LOM 466-999

**33-26-04**



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

- (e) Remove the bolts [5] that hold the accent cove light assembly [1] to bracket.
- (f) Replace the accent cove light assembly [1].
- (g) Install the bolts [5] that hold the accent cove light assembly [1] to bracket.
- (h) Put the electrical wires into the clamp [2].
- (i) Install adjustable plastic strap, G51367, to the clamp [2] (SWPM 20-10-12).
- (j) Connect the electrical connectors [4].
- (k) Install the straps [3] that tie the wire pigtails together.

SUBTASK 33-26-04-400-001

- (5) Install the bustle panel assembly [6] as follows:
  - (a) Install the screws [8] to the outboard side of the bustle panel assembly [6].
  - (b) Install the screws [7] to the front face of the bustle panel assembly [6].
  - (c) Close the doors to the colset.

SUBTASK 33-26-04-410-001

- (6) Supply power to the airplane (MANUAL CONTROL - MAINTENANCE PRACTICES, PAGEBLOCK 24-22-00/201).

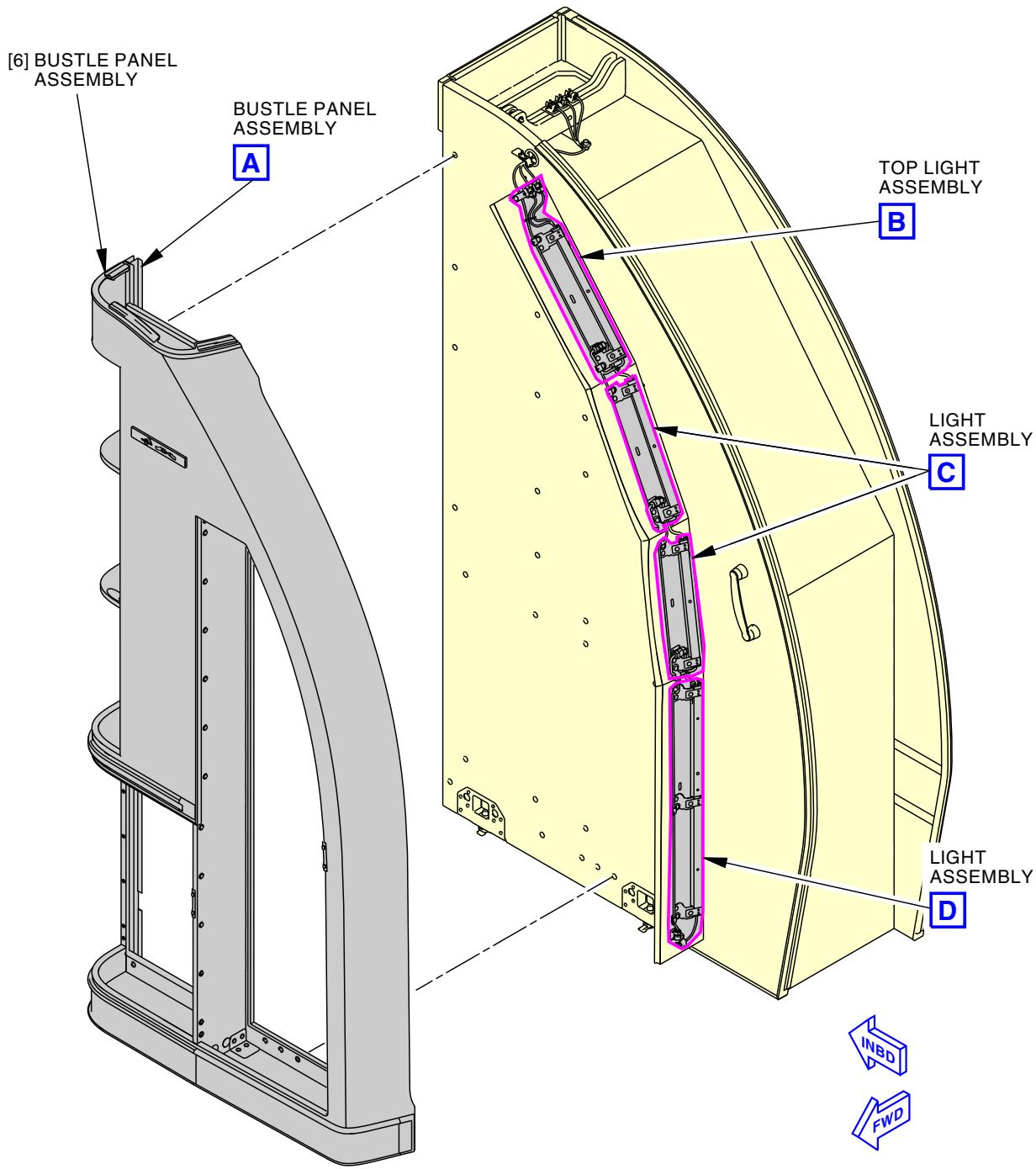
SUBTASK 33-26-04-710-001

- (7) Do the test for the new accent cove light assembly [1] (Closet Lights - Operational Test, TASK 33-26-04-710-801).

———— END OF TASK ———

EFFECTIVITY  
LOM 466-999

**33-26-04**

FORWARD LEFT STOWAGE CLOSET LED LIGHT LOCATION  
(EXAMPLE)

2460007 S0000573097\_V3

**Closet Light Assembly - Replacement**  
**Figure 201/33-26-04-990-801 (Sheet 1 of 4)**

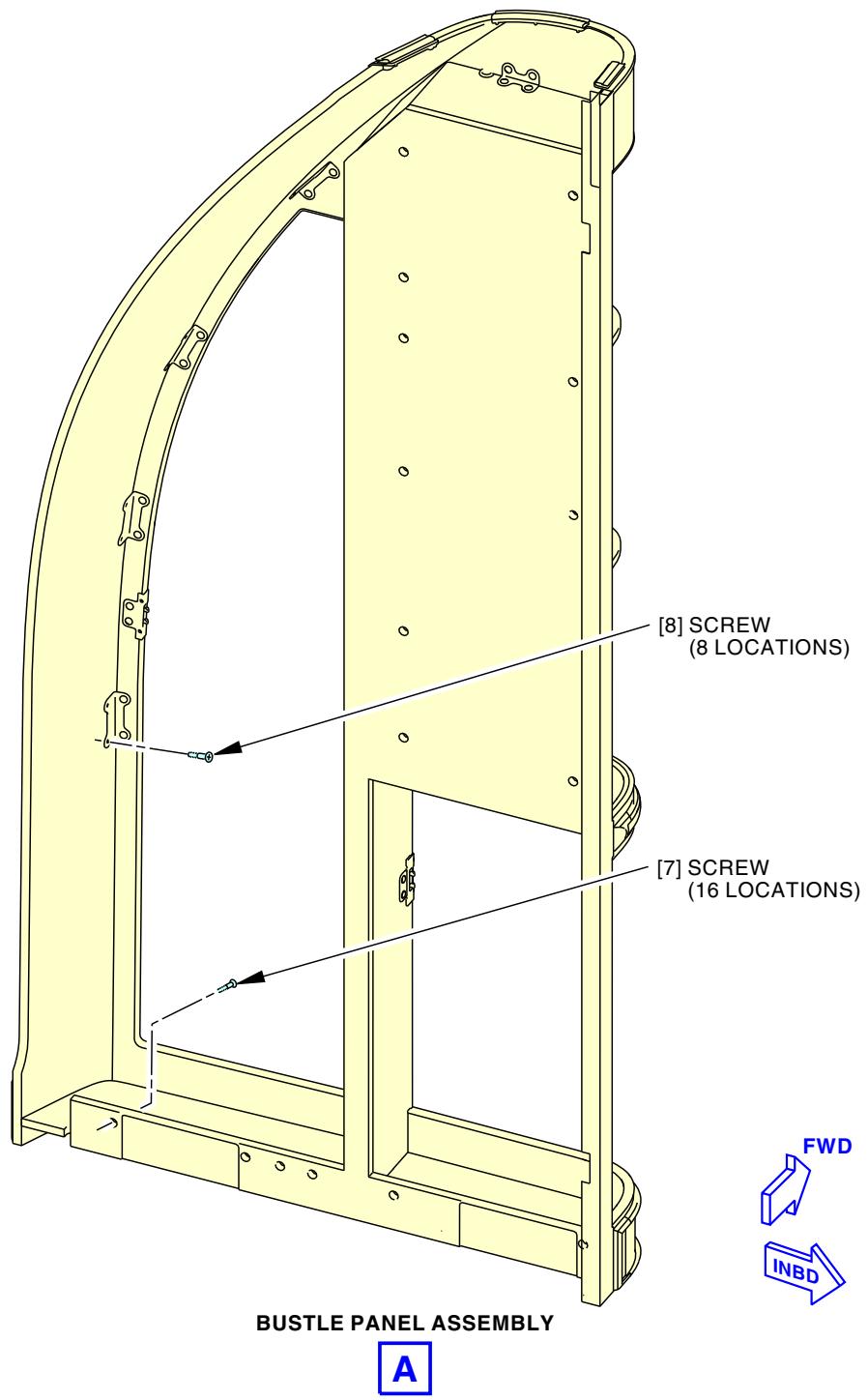
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 LOM 466-999
**33-26-04**

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ECCN 9E991 BOEING PROPRIETARY - See title page for details



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AIRCRAFT MAINTENANCE MANUAL



2950667 S0000727705\_V2

Closet Light Assembly - Replacement  
Figure 201/33-26-04-990-801 (Sheet 2 of 4)

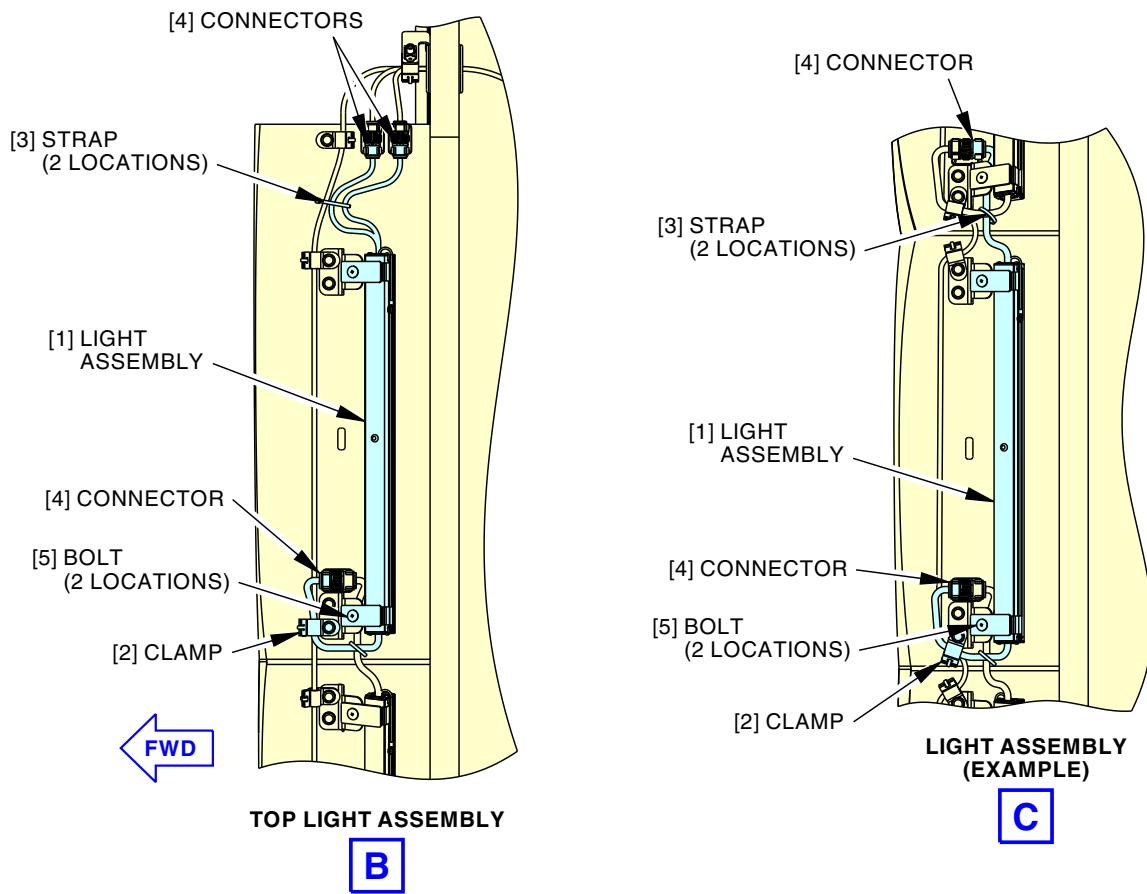
EFFECTIVITY  
LOM 466-999

**33-26-04**

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2460019 S0000573100\_V3

**Closet Light Assembly - Replacement**  
**Figure 201/33-26-04-990-801 (Sheet 3 of 4)**

 EFFECTIVITY  
**LOM 466-999**
**33-26-04**

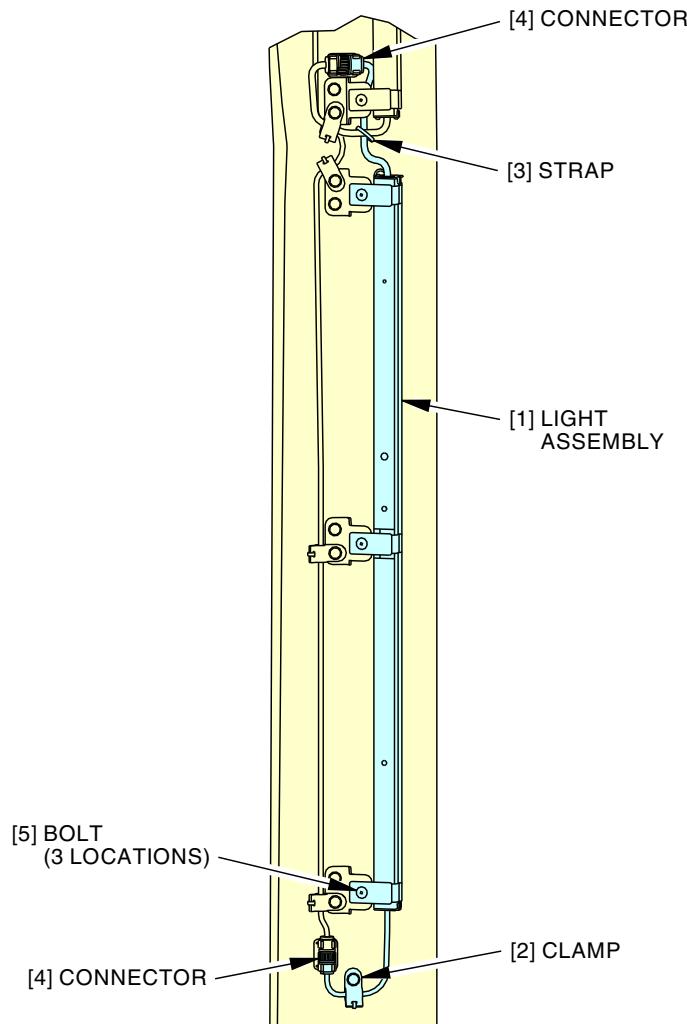
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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LIGHT ASSEMBLY

D

3051203 S0000816764\_V1

Closet Light Assembly - Replacement  
Figure 201/33-26-04-990-801 (Sheet 4 of 4)

EFFECTIVITY  
LOM 466-999

**33-26-04**

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CLOSET LIGHTS - ADJUSTMENT/TEST

**1. General**

- A. This procedure has this task:
- (1) Closet Lights - Operational Test

**TASK 33-26-04-710-801**

**2. Closet Lights - Operational Test**

**A. General**

- (1) The closet lights (accent cove lights) are mounted in the forward left BSI closet bustle or BSI windscreens and are powered from the cove light circuit breaker.
- (2) The closet lights (accent cove lights) are controlled and powered with the existing cove lights.

**B. References**

<u>Reference</u>	<u>Title</u>
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
33-20-00-710-804-001	Passenger Compartment Lights - Operational Test (P/B 501)

**C. Location Zones**

<u>Zone</u>	<u>Area</u>
231	Forward Passenger Compartment - Forward Entry Door to Sta 663.75 - Left

**D. Prepare for the Operational Test**

SUBTASK 33-26-04-760-001

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

**E. Closet Lights Operational Test**

SUBTASK 33-26-04-710-002

- (1) Set the CAB/UTIL switch located on the P5-13 to the ON position.
- (2) Make sure that this circuit breaker is open and has safety tag:

**F/O Electrical System Panel, P6-1**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	12	C01936	ATTENDANT PANELS

Make sure that this circuit breaker is closed:

**Power Distribution Panel Number 1, P91**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	4	C00184	GND SERV CLG NIGHT CONT

Close this circuit breaker:

**Power Distribution Panel Number 2, P92**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
E	5	C01939	COVE LIGHT

- (3) Make sure that all the closet lights (accent cove lights) are illuminated to the same color and light intensity with other cove lights.

EFFECTIVITY  
LOM 466-999

**33-26-04**



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

SUBTASK 33-26-04-000-003

- (4) Open this circuit breaker:

**Power Distribution Panel Number 2, P92**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
E	5	C01939	COVE LIGHT

SUBTASK 33-26-04-710-003

- (5) Do this task: Passenger Compartment Lights - Operational Test, TASK 33-20-00-710-804-001.  
(6) Make sure that all the closet lights (accent cove lights) are illuminated to the same color and light intensity with other cove lights during the test.

**F. Put the Airplane Back to Its Usual Condition**

SUBTASK 33-26-04-000-002

- (1) Remove electrical power (Remove Electrical Power, TASK 24-22-00-860-812).

———— END OF TASK ————

— EFFECTIVITY —  
LOM 466-999

**33-26-04**



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**AIRCRAFT MAINTENANCE MANUAL**

**PASSENGER AND LAVATORY CALL LIGHTS - MAINTENANCE PRACTICES**

**1. General**

- A. This procedure has these tasks:
- (1) A deactivation of the passenger and lavatory call lights
  - (2) An activation of the passenger and lavatory call lights

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

- (3) A replacement of the passenger call light - PSU light/switch

**LOM 427-434, 437-447, 450-999**

- (4) A replacement of the passenger call light - PSU LED call light

**LOM ALL**

- (5) A replacement of the lavatory call light - light/switch

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

- (6) A replacement of the passenger call light - fuse.
  - (a) To replace the fuse for the passenger call light, do this task: Reading Light - PSU Circuit Board Fuse Replacement, TASK 33-23-00-960-803.

**LOM ALL**

**TASK 33-27-00-040-801**

**2. Passenger and Lavatory Call Lights - Deactivation**

(Figure 201)

**A. General**

- (1) This procedure removes electrical power to the Passenger and Lavatory Call Lights.

**B. Location Zones**

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

**C. Procedure**

SUBTASK 33-27-00-860-009

- (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, 422-434, 437-447, 450-999**

A	8	C01403	PASSENGER CABIN PASS CALL LEFT
B	8	C01404	PASSENGER CABIN PASS CALL RIGHT

**LOM ALL**

**D. Passenger and Lavatory Call Lights - Tryout**

SUBTASK 33-27-00-700-001

**NOTE:** This tryout is to make sure the Passenger and Lavatory Call Lights are in a zero energy state.

EFFECTIVITY  
LOM ALL

**33-27-00**



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

- (1) At the passenger service unit (PSU), press the passenger call switch.
  - (a) Make sure the passenger call light does not come on.
- (2) At the lavatory, press the lavatory call switch.
  - (a) Make sure the inside lavatory call light does not come on.
  - (b) Make sure the outside lavatory call light does not come on.

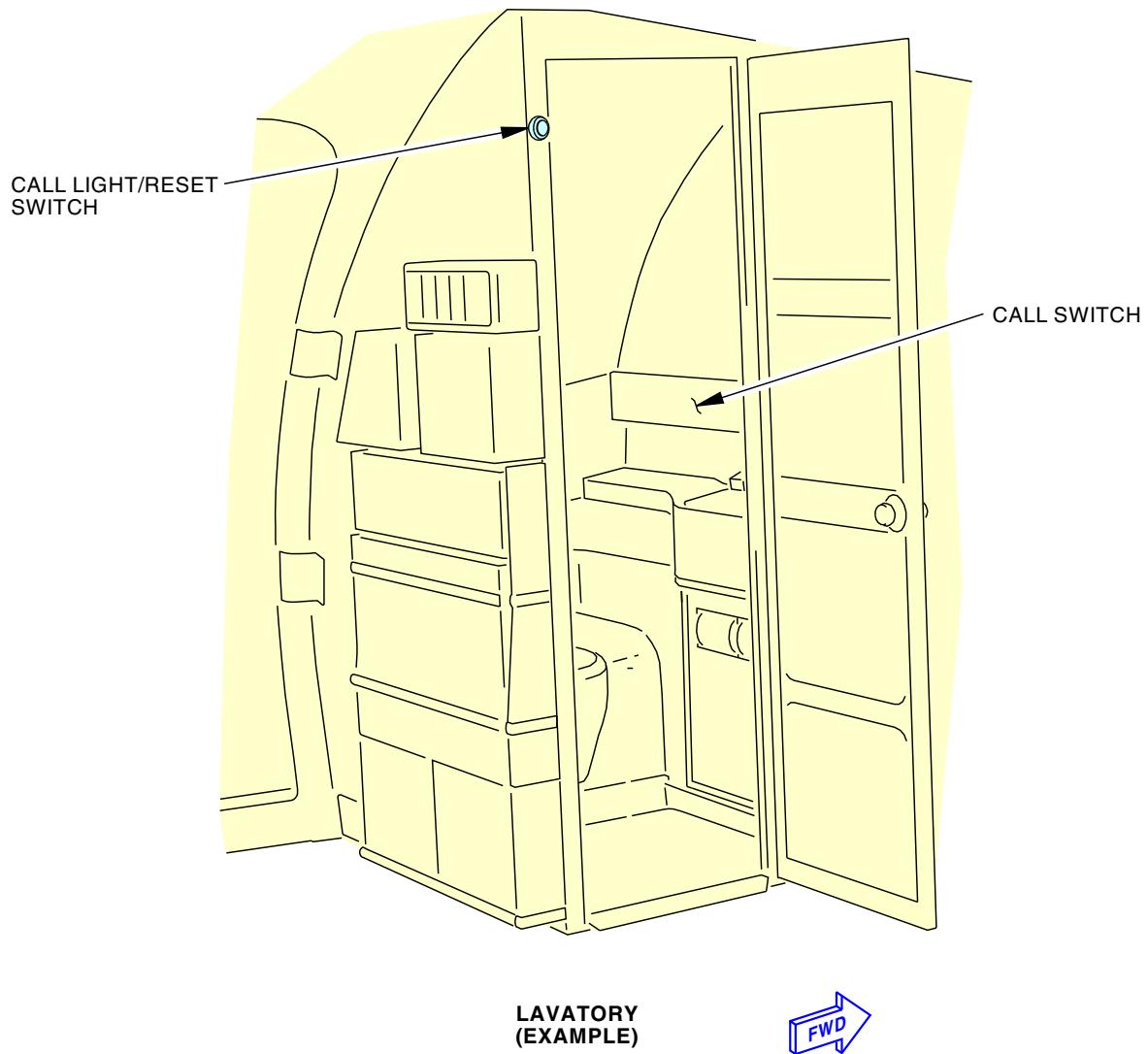
———— END OF TASK ————

— EFFECTIVITY —  
LOM ALL

**33-27-00**



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AIRCRAFT MAINTENANCE MANUAL



2383124 S0000544355\_V2

Passenger and Lavatory Call Lights  
Figure 201/33-27-00-990-804 (Sheet 1 of 2)

EFFECTIVITY  
LOM ALL

**33-27-00**

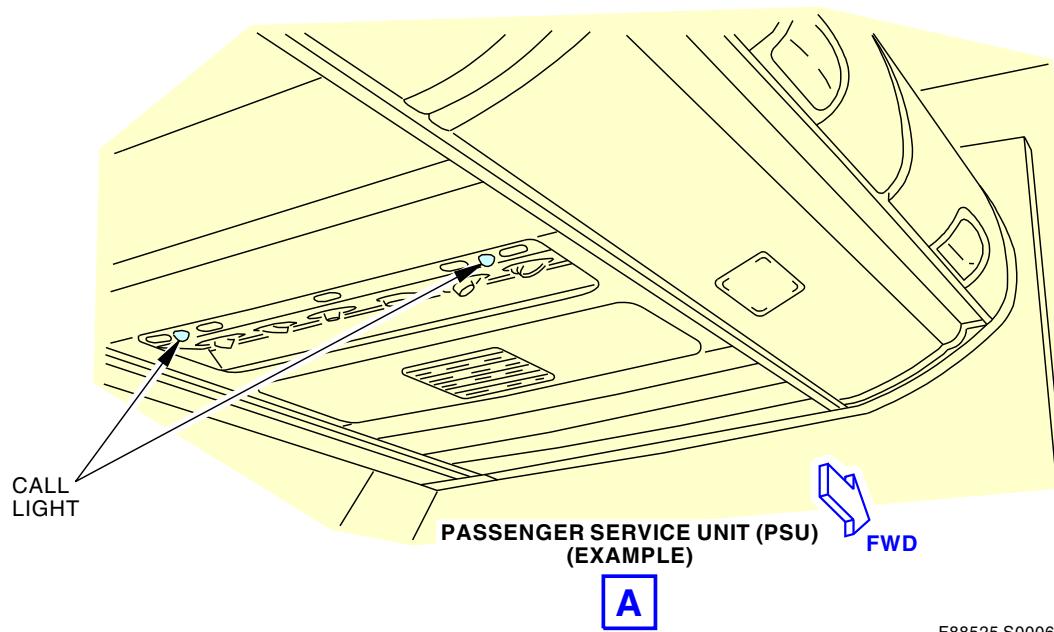
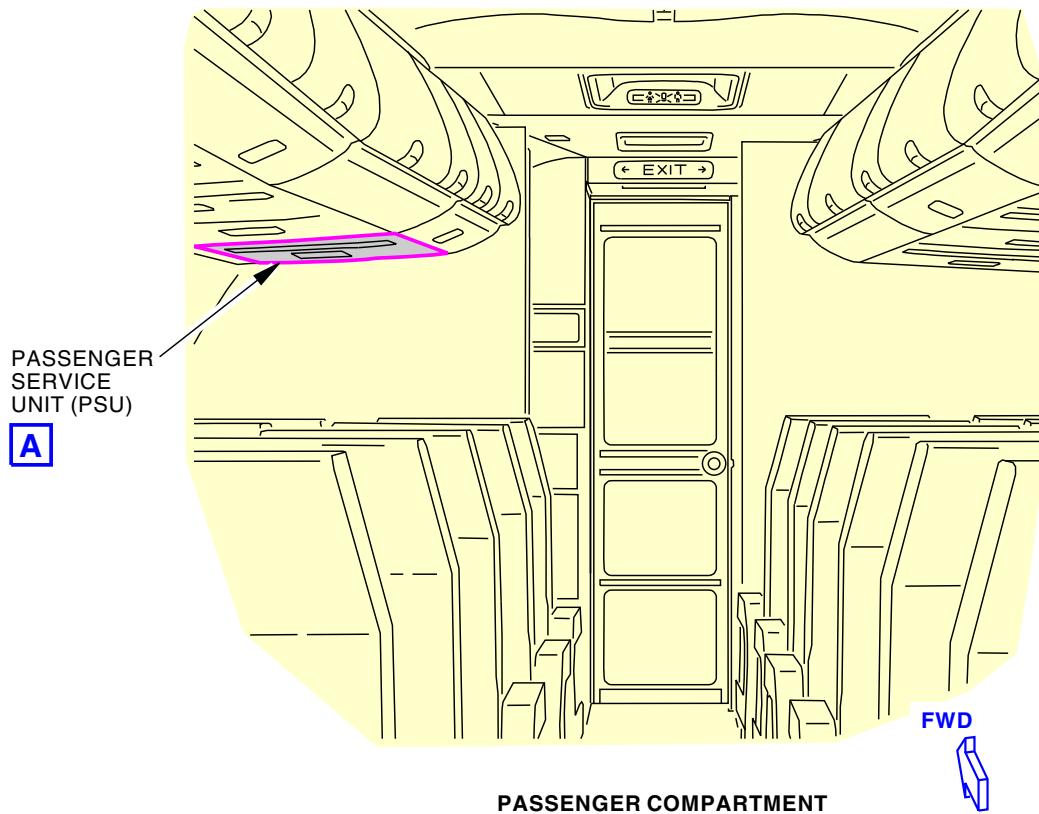
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AIRCRAFT MAINTENANCE MANUAL



F88525 S0006576085\_V2

Passenger and Lavatory Call Lights  
Figure 201/33-27-00-990-804 (Sheet 2 of 2)

EFFECTIVITY  
LOM ALL

**33-27-00**

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AIRCRAFT MAINTENANCE MANUAL

**TASK 33-27-00-440-801**

**3. Passenger and Lavatory Call Lights - Activation**

(Figure 201)

**A. General**

- (1) This procedure adds electrical power to the passenger and lavatory call lights

**B. Location Zones**

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

**C. Procedure**

SUBTASK 33-27-00-860-010

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

**CAPT Electrical System Panel, P18-3**

Row	Col	Number	Name
LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-999			
A	8	C01403	PASSENGER CABIN PASS CALL LEFT
B	8	C01404	PASSENGER CABIN PASS CALL RIGHT

— END OF TASK —

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

**TASK 33-27-00-960-801**

**4. Passenger Call Light - PSU Light/Lens/Switch Replacement**

(Figure 202)

**A. References**

Reference	Title
33-20-00-710-801-001	Passenger Compartment Lights - Operational Test (P/B 501)
33-23-00-820-801	Reading Light - PSU Circuit Board Replacement (P/B 201)
33-23-00-960-803	Reading Light - PSU Circuit Board Fuse Replacement (P/B 201)

**B. Location Zones**

Zone	Area
200	Upper Half of Fuselage

**C. Procedure**

SUBTASK 33-27-00-960-002

- (1) To replace the fuse for the passenger call light on a passenger service unit (PSU), do this task:  
Reading Light - PSU Circuit Board Fuse Replacement, TASK 33-23-00-960-803.

NOTE: If the new fuse corrects the problem, you do not need to replace the light assembly.

SUBTASK 33-27-00-860-001

- (2) To replace a passenger call light or call switch on a passenger service unit (PSU), do this task:  
Reading Light - PSU Circuit Board Replacement, TASK 33-23-00-820-801.

NOTE: The installation test of the PSU in the reference task is sufficient. For an optional test,  
do a test of the Passenger and Lavatory Call Lights (Passenger Compartment Lights -  
Operational Test, TASK 33-20-00-710-801-001).

EFFECTIVITY  
**LOM ALL**

**33-27-00**



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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)**

- (3) To replace a call light lens, do this:
  - (a) Pull the lens from the faceplate.
  - (b) Align the new lens on the faceplate.
  - (c) Push the lens into the faceplate.

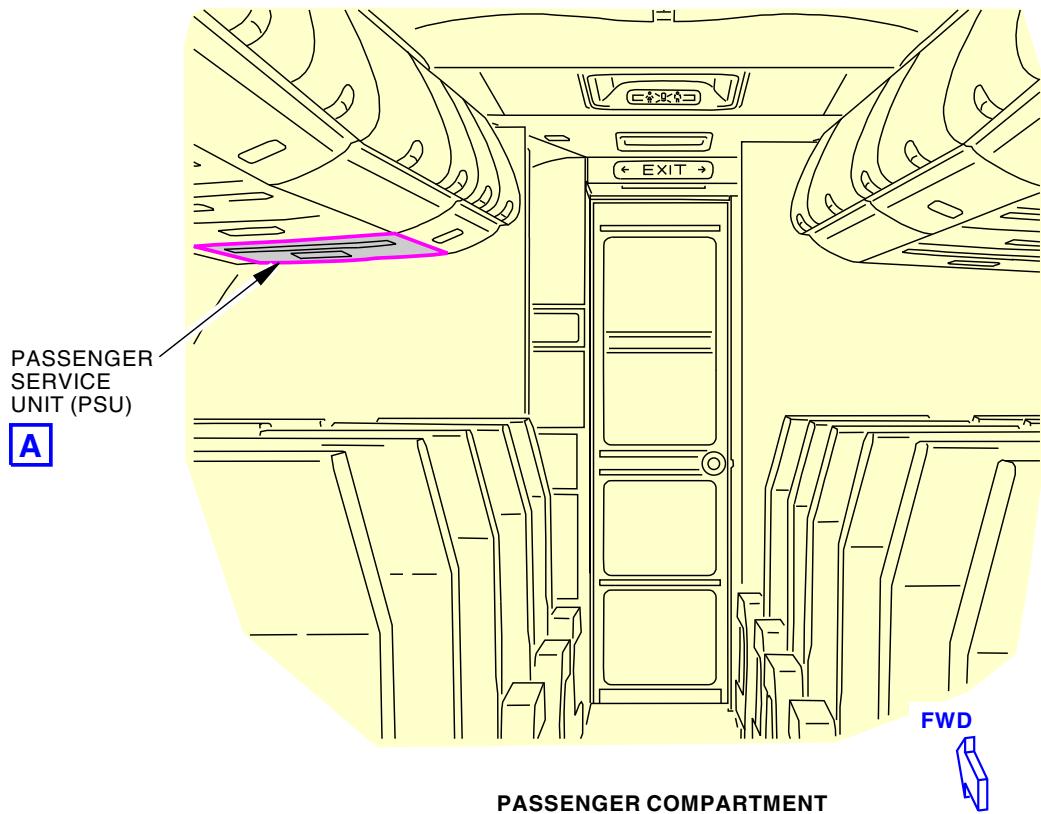
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— EFFECTIVITY —  
**LOM ALL**

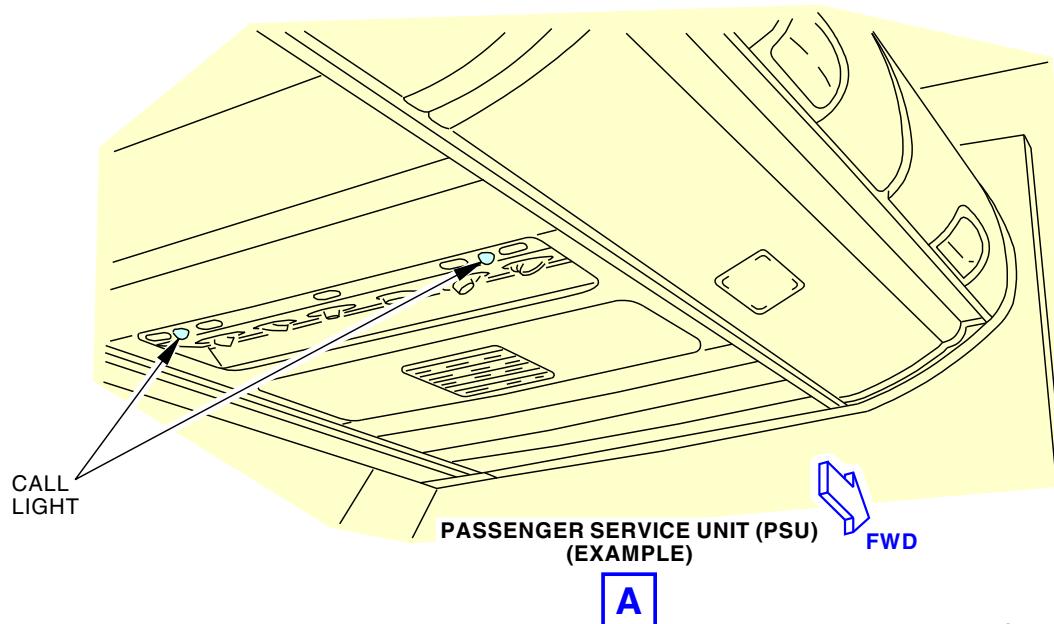
**33-27-00**



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AIRCRAFT MAINTENANCE MANUAL



PASSENGER COMPARTMENT



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**Passenger Call Light - PSU Light/Switch Replacement**  
Figure 202/33-27-00-990-801

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

**33-27-00**

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LOM 427-434, 437-447, 450-999

**TASK 33-27-00-960-804**

**5. Passenger Call Light - PSU LED Call Light Replacement**

**A. References**

Reference	Title
24-22-00-860-812	Remove Electrical Power (P/B 201)
25-23-61-000-804	Passenger Service Unit - Removal (P/B 401)
25-23-61-400-804	Passenger Service Unit - Installation (P/B 401)

**B. Tools/Equipment**

Reference	Description
STD-8416	Cutter - Wire, Diagonal or Side, 6 in. (150 mm)

**C. Consumable Materials**

Reference	Description	Specification
A00028	Adhesive - Modified Epoxy For Rigid PVC, Foam Cored Sandwiches	BAC5010 Type 70 (BMS5-92 Type 1)

**D. Location Zones**

Zone	Area
200	Upper Half of Fuselage

**E. Prepare for the Procedure**

SUBTASK 33-27-00-860-006

- (1) Open the applicable circuit breakers and install safety tags:

**CAPT Electrical System Panel, P18-3**

Row	Col	Number	Name
A	8	C01403	PASSENGER CABIN PASS CALL LEFT
B	8	C01404	PASSENGER CABIN PASS CALL RIGHT

SUBTASK 33-27-00-010-001

- (2) For access to the top of the light assembly, lower the passenger service unit (PSU) (TASK 25-23-61-000-804).

**F. Procedure**

SUBTASK 33-27-00-020-001

- (1) Remove the call light [1].
  - (a) Use a diagonal or side wire cutter, STD-8416 if necessary to remove the adhesive that secures the call light [1] to the PSU.
  - (b) Disconnect the connector [2] from the PSU.
  - (c) Remove the call light [1].
  - (d) Remove the lens [3].

SUBTASK 33-27-00-420-001

- (2) Install the new call light [1].
  - (a) Insert the lens [3] into the PSU from the cabin side.
  - (b) Insert the washer of the call light [1] onto the lens [3] from the component side of the PSU.

EFFECTIVITY  
LOM ALL

**33-27-00**



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**AIRCRAFT MAINTENANCE MANUAL**

**LOM 427-434, 437-447, 450-999 (Continued)**

- (c) Align the key on the lens holder of the call light [1] with the slot on the lens [3] and install the parts together.
- (d) Apply two drops of adhesive, A00028 to secure the lens holder to the washer of the call light [1].
- (e) If necessary, use a clean cloth to remove the adhesive from the PSU.
- (f) Connect the connector [2] to the PSU.

SUBTASK 33-27-00-410-001

- (3) Close the PSU (TASK 25-23-61-400-804).

**G. Test**

SUBTASK 33-27-00-860-007

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

**CAPT Electrical System Panel, P18-3**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	8	C01403	PASSENGER CABIN PASS CALL LEFT
B	8	C01404	PASSENGER CABIN PASS CALL RIGHT

- (2) Do a test of the new call light [1].
  - (a) At PSU, set the call switch to the on mode.
    - 1) Make sure that the new call light [1] comes on.
  - (b) Set the call switch to the off mode.
    - 1) Make sure that the new call light [1] goes off.

**H. Put the Airplane Back to Its Usual Condition**

SUBTASK 33-27-00-860-008

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

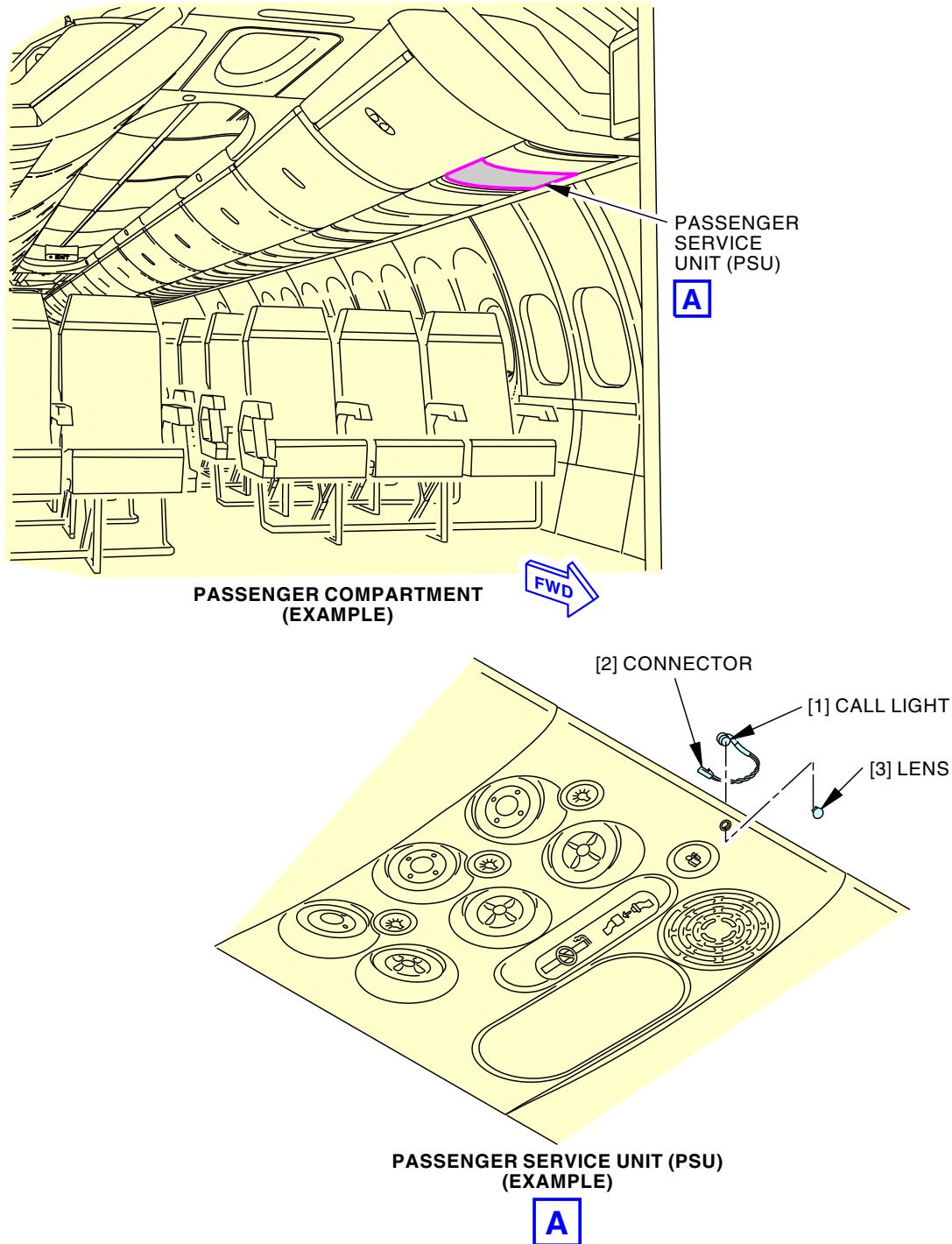
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EFFECTIVITY  
LOM ALL

**33-27-00**



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AIRCRAFT MAINTENANCE MANUAL



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**Passenger Call Light - PSU LED Call Light Replacement**  
Figure 203/33-27-00-990-803

EFFECTIVITY  
LOM 427-434, 437-447, 450-999

**33-27-00**

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LOM ALL

**TASK 33-27-00-960-802**

**6. Lavatory Call Light - Light/Switch Replacement**

(Figure 204)

**A. General**

- (1) The lavatory call lights include these components (WDM 33-27-11):
  - (a) A call light/reset switch installed outside each lavatory near the top of the door
  - (b) A call switch installed in each lavatory.

**B. References**

Reference	Title
WDM 33-27-11	Wiring Diagram Manual

**C. Location Zones**

Zone	Area
200	Upper Half of Fuselage

**D. Lavatory Call Light Replacement**

SUBTASK 33-27-00-860-002



**WARNING** DO NOT TOUCH THE SOCKETS OF THE METAL ENDS OF THE LAMP. WHEN YOU SUPPLY ELECTRICAL POWER TO THE LIGHT, ELECTRICAL SHOCK CAN OCCUR.

- (1) Do these steps to replace the lamp or illuminator in the call light/reset switch outside the lavatory:

**LOM ALL; AIRPLANES WITH INCANDESCENT LAMPS**

- (a) For the incandescent lamp:
  - 1) Remove the lens [5].  
NOTE: Turn the lens counterclockwise.
  - 2) Replace the lamp [4].
  - 3) Install the lens [5].

**LOM ALL; AIRPLANES WITH LED LAMPS**

- (b) For the LED lamp:
  - 1) Pull the lens [5] away from the lavatory wall.
  - 2) Replace the LED lamp [4].
  - 3) Install the lens [5].

**LOM ALL; AIRPLANES WITH LUMINATOR**

- (c) For the illuminator:
  - 1) Remove the screws [6].
  - 2) Remove the housing [7].
  - 3) Replace the illuminator [8].
  - 4) Install the housing [7].

EFFECTIVITY  
LOM ALL

**33-27-00**



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

**LOM ALL; AIRPLANES WITH LUMINATOR (Continued)**

- 5) Install the screws [6].

**LOM ALL**

SUBTASK 33-27-00-860-003

- (2) Do these steps to replace the call switch in the lavatory:

- (a) Open the applicable circuit breakers and install the safety tags:

**CAPT Electrical System Panel, P18-3**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
------------	------------	---------------	-------------

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

A	8	C01403	PASSENGER CABIN PASS CALL LEFT
B	8	C01404	PASSENGER CABIN PASS CALL RIGHT

**LOM ALL**

- (b) Open the utility door for access to the rear of the call switch.
  - (c) Loosen the fasteners that hold the call switch in its position.
  - (d) Disconnect the electrical wires.
  - (e) Replace the call switch.
  - (f) Connect the electrical wires to the new call switch.
  - (g) Install the call switch and tighten its fasteners.
  - (h) Close the utility door.
  - (i) Remove the safety tag and close the applicable circuit breakers:

**CAPT Electrical System Panel, P18-3**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
------------	------------	---------------	-------------

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

A	8	C01403	PASSENGER CABIN PASS CALL LEFT
B	8	C01404	PASSENGER CABIN PASS CALL RIGHT

**LOM ALL**

SUBTASK 33-27-00-710-001

- (3) Do a test of the new call light/reset switch.

- (a) Set the call switch in the lavatory to the ON mode.
    - 1) Make sure that the light in the call switch comes on.
    - 2) Make sure that the call light/reset switch outside the lavatory comes on.
  - (b) Push the call light/reset switch outside the lavatory to the OFF mode.
    - 1) Make sure that the call light/reset switch goes off.
    - 2) Make sure that the light in the call switch in the lavatory goes off.

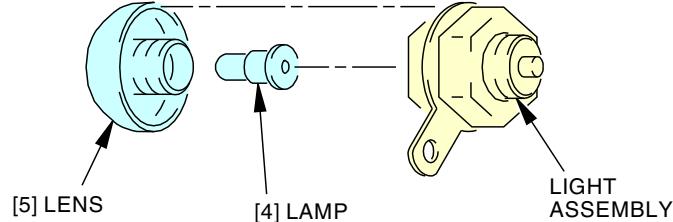
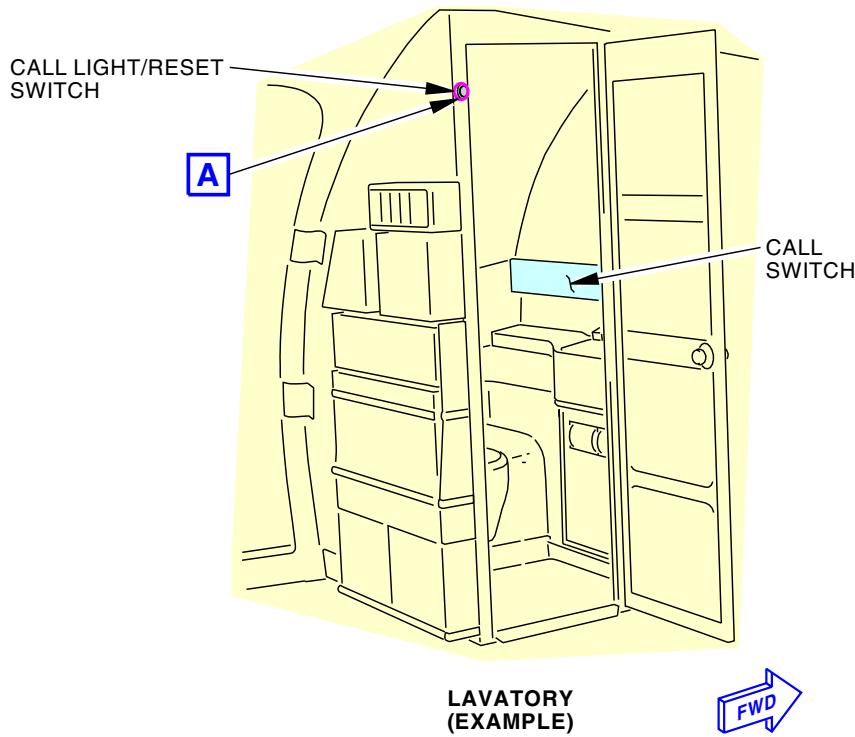
———— END OF TASK ————

EFFECTIVITY  
**LOM ALL**

**33-27-00**



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AIRCRAFT MAINTENANCE MANUAL



(INCANDESCENT LAMP LIGHT/RESET SWITCH)  
(EXAMPLE)

A

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Lavatory Call Light/Switch Replacement  
Figure 204/33-27-00-990-802 (Sheet 1 of 3)

EFFECTIVITY  
LOM ALL; AIRPLANES WITH INCANDESCENT  
LAMPS

**33-27-00**

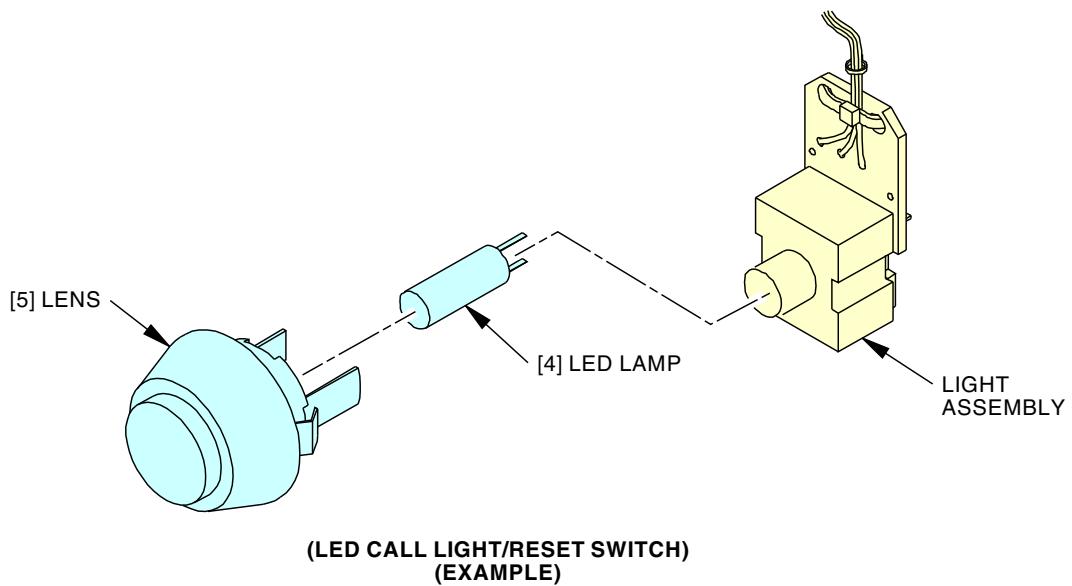
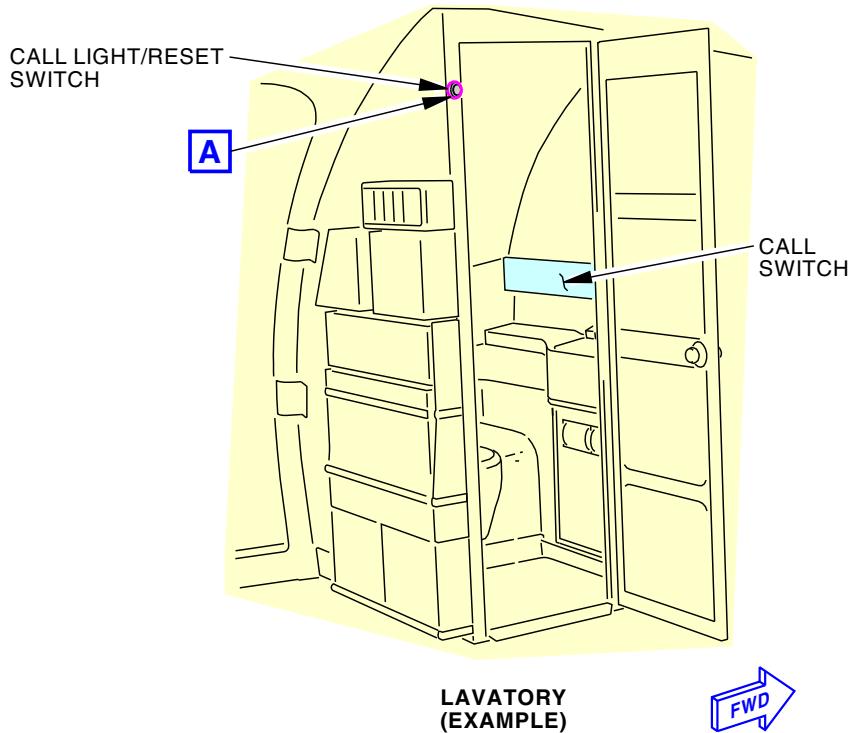
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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



2932662 S0000709786\_V3

Lavatory Call Light/Switch Replacement  
Figure 204/33-27-00-990-802 (Sheet 2 of 3)

EFFECTIVITY  
LOM ALL; AIRPLANES WITH LED LAMPS

**33-27-00**

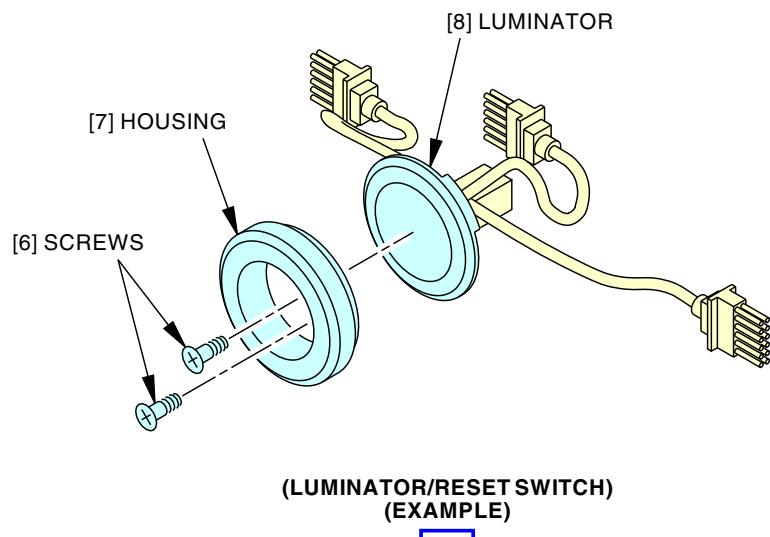
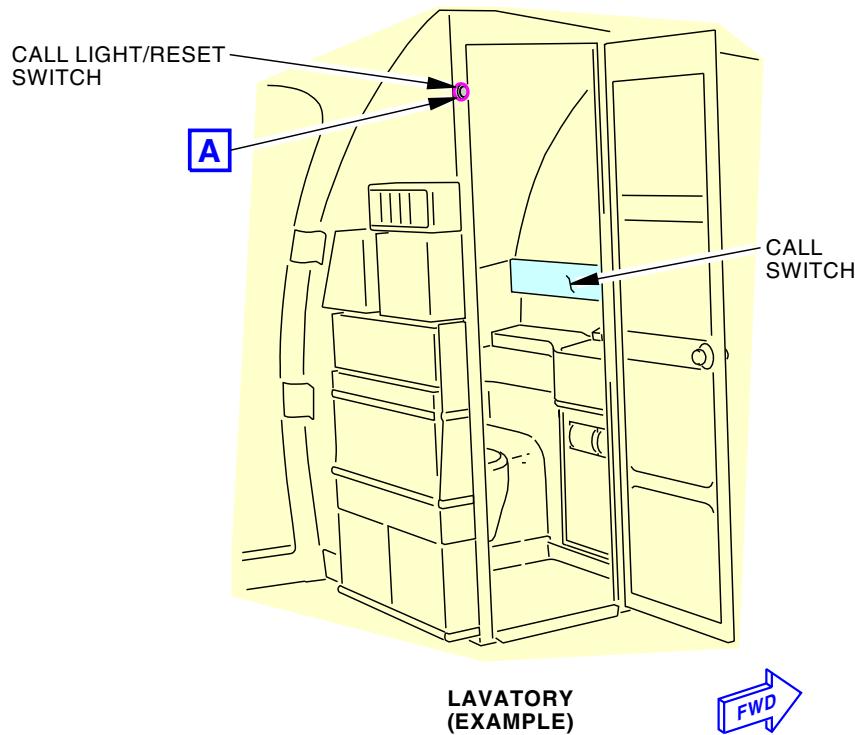
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AIRCRAFT MAINTENANCE MANUAL



2970157 S0000749010\_V2

Lavatory Call Light/Switch Replacement  
Figure 204/33-27-00-990-802 (Sheet 3 of 3)

EFFECTIVITY  
LOM ALL; AIRPLANES WITH LUMINATOR

**33-27-00**

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

ENTRY LIGHTS - MAINTENANCE PRACTICES

**1. General**

A. This procedure has these tasks:

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

- (1) Entry Light Deactivation
- (2) Entry Light Activation
- (3) Entry Light - Fluorescent Lamp Replacement
- (4) Entry Light - Dim Entry Light Replacement
- (5) Entry Light - Ballast Replacement

**LOM 461-463, 466-999; LOM 402, 404, 406, 407, 420, 422, 425-431, 433, 434 PRE SB 737-25-1689**

- (6) Entry Light - Threshold Light Lamp Replacement

**LOM 427-434, 437-447, 450-999**

- (7) Entry Light - Dim Entry LED Light Assembly Replacement.

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

**TASK 33-29-00-040-801**

**2. Entry Light - Deactivation**

(Figure 201)

**A. General**

- (1) This procedure removes electrical power from the FWD and AFT Entry Lights.

**B. Location Zones**

Zone	Area
117	Electrical and Electronics Compartment - Left
221	Passenger Compartment - Aft of Control Compartment to Forward Entry Door - Left
222	Passenger Compartment - Aft of Control Compartment to Forward Entry Door - Right
241	Aft Passenger Compartment - Station 663.75 to Aft Pressure Bulkhead - Left
242	Aft Passenger Compartment - Station 663.75 to Aft Pressure Bulkhead - Right

**C. Access Panels**

Number	Name/Location
117A	Electronic Equipment Access Door

**D. Entry Light Deactivation**

SUBTASK 33-29-00-010-001

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

Number	Name/Location
117A	Electronic Equipment Access Door

EFFECTIVITY  
**LOM ALL**

**33-29-00**



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

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)**

SUBTASK 33-29-00-860-022



**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.

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

**Power Distribution Panel Number 1, P91**

Row   Col   Number   Name

**LOM 402, 404, 406**

E      10      C00413      BRT ENTRY LTS

**LOM 407, 411, 412, 415, 416, 420, 422-426**

E      11      C00413      BRT ENTRY LTS

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

SUBTASK 33-29-00-410-003

- (3) Close this access panel:

Number   Name/Location

117A      Electronic Equipment Access Door

**E. Entry Light - Tryout**

NOTE: This tryout is to make sure that the entry light is in zero energy state.

SUBTASK 33-29-00-211-001

- (1) Do the following steps to make sure that the FWD and AFT entry lights are off:

- (a) Turn the entry light switch, on the FWD attendant control panel, to the DIM position.
  - 1) Make sure that the FWD fluorescent entry light remains off.
- (b) Turn the entry light switch, on the FWD attendant control panel, to the BRIGHT position.
  - 1) Make sure that the FWD fluorescent entry light remains off.
- (c) Turn the entry light switch, on the AFT attendant control panel, to the DIM position.
  - 1) Make sure that the AFT fluorescent entry light or lights remains off.
- (d) Turn the entry light switch, on the AFT attendant control panel, to the BRIGHT position.
  - 1) Make sure that the AFT fluorescent entry light or lights remains off.

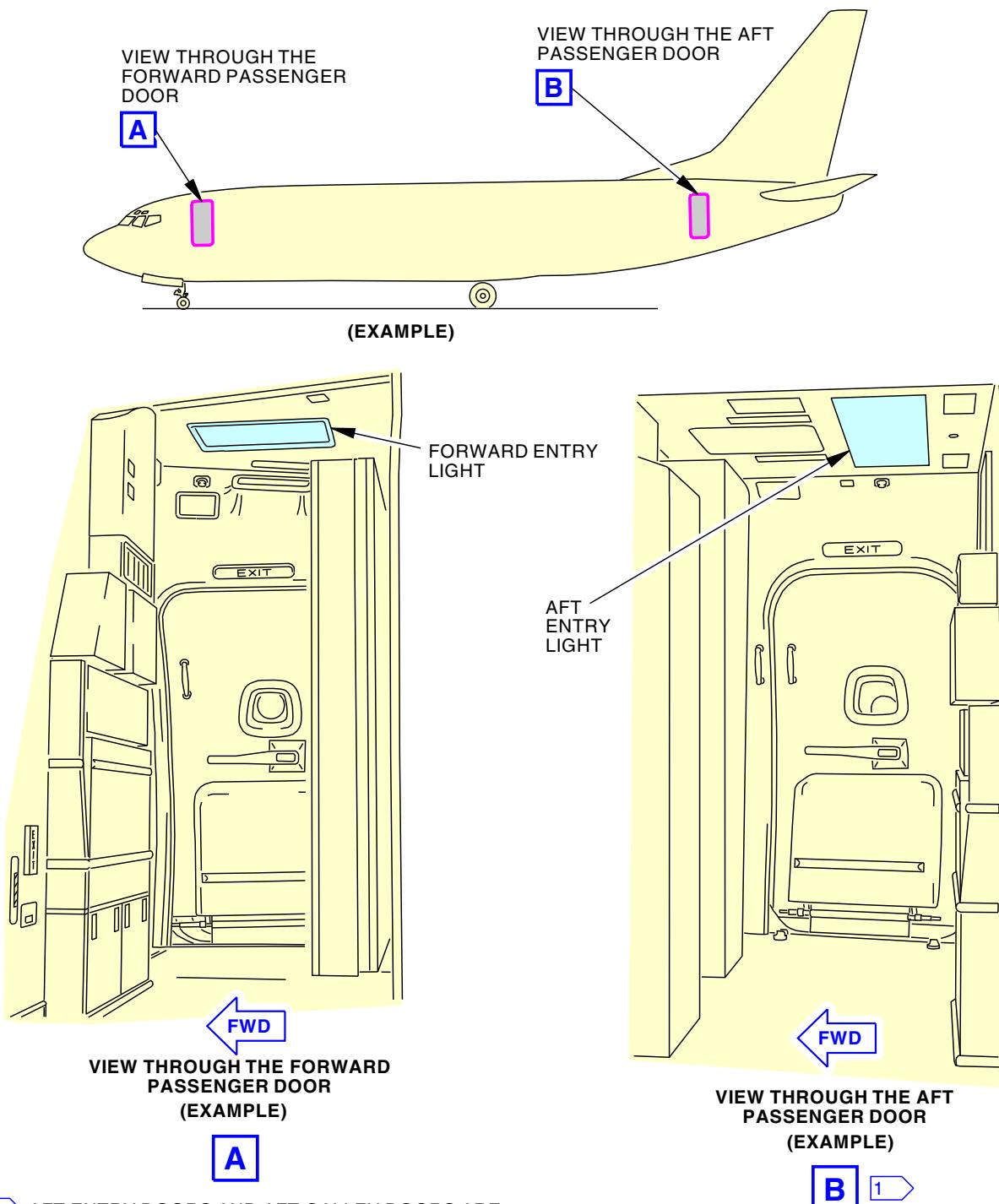
———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-29-00**



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



1 AFT ENTRY DOORS AND AFT GALLEY DOORS ARE DEACTIVATED FOR BCF PLANES.

2363903 S0000540301\_V3

**Entry Lights**  
Figure 201/33-29-00-990-805

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

**33-29-00**

D633A101-LOM

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

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)**

**TASK 33-29-00-440-801**

**3. Entry Light - Activation**

(Figure 201)

**A. General**

- (1) This procedure supplies electrical power to the FWD and AFT entry lights.

**B. Location Zones**

<b>Zone</b>	<b>Area</b>
117	Electrical and Electronics Compartment - Left
221	Passenger Compartment - Aft of Control Compartment to Forward Entry Door - Left
222	Passenger Compartment - Aft of Control Compartment to Forward Entry Door - Right
241	Aft Passenger Compartment - Station 663.75 to Aft Pressure Bulkhead - Left
242	Aft Passenger Compartment - Station 663.75 to Aft Pressure Bulkhead - Right

**C. Access Panels**

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

**D. Entry Light Activation**

SUBTASK 33-29-00-010-003

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

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

SUBTASK 33-29-00-860-023



**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.

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

**Power Distribution Panel Number 1, P91**

**Row**   **Col**   **Number**   **Name**

**LOM 402, 404, 406**

E      10      C00413      BRT ENTRY LTS

EFFECTIVITY  
LOM ALL

**33-29-00**

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

LOM 402, 404, 406 (Continued)

(Continued)

**Power Distribution Panel Number 1, P91**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
------------	------------	---------------	-------------

LOM 407, 411, 412, 415, 416, 420, 422-426

E	11	C00413	BRT ENTRY LTS
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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

SUBTASK 33-29-00-410-001

- (3) Close this access panel:

<u>Number</u>	<u>Name/Location</u>
---------------	----------------------

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

———— END OF TASK ————

**TASK 33-29-00-960-801**

**4. Entry Light - Fluorescent Lamp Replacement**

(Figure 202)

**A. References**

<u>Reference</u>	<u>Title</u>
WDM 33-29-11	Wiring Diagram Manual

**B. Tools/Equipment**

<u>Reference</u>	<u>Description</u>
STD-858	Tag - DO NOT OPERATE

**C. Location Zones**

<u>Zone</u>	<u>Area</u>
221	Passenger Compartment - Aft of Control Compartment to Forward Entry Door - Left
222	Passenger Compartment - Aft of Control Compartment to Forward Entry Door - Right
241	Aft Passenger Compartment - Station 663.75 to Aft Pressure Bulkhead - Left
242	Aft Passenger Compartment - Station 663.75 to Aft Pressure Bulkhead - Right

**D. Procedure**

SUBTASK 33-29-00-860-001

- (1) At the forward or aft attendant panel (as applicable), set the switch for the entry lights to the off mode and attach the DO NOT OPERATE tag, STD-858.

SUBTASK 33-29-00-960-001



DO NOT TOUCH THE SOCKETS OR THE METAL ENDS OF THE LAMP.  
SHOCK CAN OCCUR WHEN YOU SUPPLY ELECTRICAL POWER TO THE  
LIGHT.

- (2) Do these steps to replace a fluorescent lamp in the entry light (WDM 33-29-11):

- (a) Lower the applicable lens assembly [1] or light assembly [6].

NOTE: For the forward entry light, lower the left side of the lens assembly. For the aft entry light, lower the aft side of the light assembly.

- (b) For the aft entry light, open the door assembly [8] to get access to the lamps.

EFFECTIVITY  
LOM ALL

**33-29-00**



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**AIRCRAFT MAINTENANCE MANUAL**

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)**

- (c) Replace the applicable fluorescent lamp [3] or fluorescent lamp [7].  
NOTE: Use the levers to eject the lamp.  
NOTE: Do not remove the plastic brace of the u-shaped lamp.
- (d) For the aft entry light, close the door assembly [8].
- (e) Close the applicable lens assembly [1] or light assembly [6].
- (f) Remove the DO NOT OPERATE tag, STD-858 from the entry light switch.

**SUBTASK 33-29-00-710-001**

- (3) Do a test of the new lamp:

- (a) Make sure the flight compartment door is closed when you replace a lamp in the forward entry light assembly.
- (b) Set the switch for the entry lights to the bright mode.
  - 1) Make sure the fluorescent light comes on brightly.
- (c) Set the switch to the dim mode.
  - 1) Make sure the fluorescent light becomes dim.
- (d) Set the switch to the off mode.
  - 1) Make sure the fluorescent light goes off.

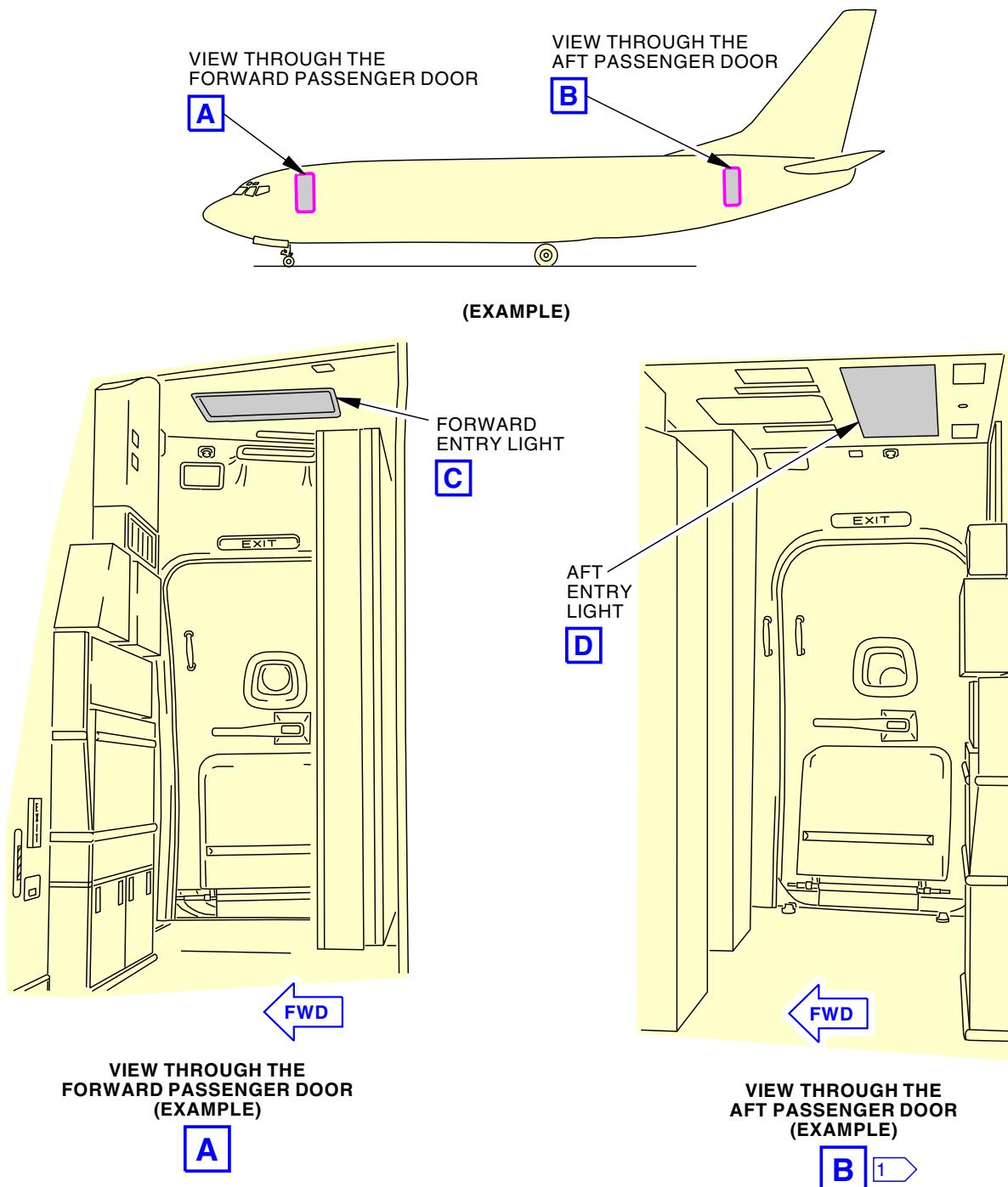
———— END OF TASK ————

EFFECTIVITY  
**LOM ALL**

**33-29-00**



737-600/700/800/900  
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1 AFT ENTRY DOORS AND AFT GALLEY DOORS  
ARE DEACTIVATED FOR BCF PLANES

F84918 S0006576092\_V4

**Entry Light - Lamp Replacement**  
Figure 202/33-29-00-990-801 (Sheet 1 of 3)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

**33-29-00**

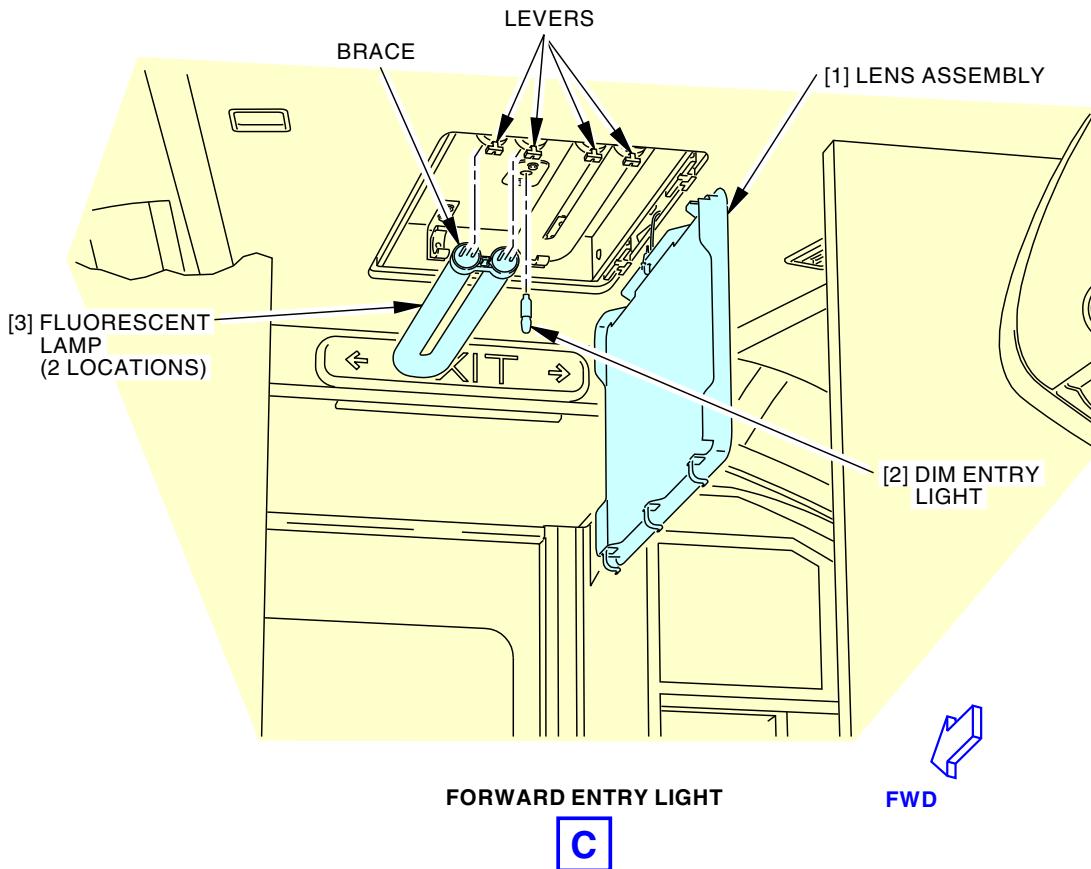
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F85186 S0006576093\_V4

Entry Light - Lamp Replacement  
Figure 202/33-29-00-990-801 (Sheet 2 of 3)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

**33-29-00**

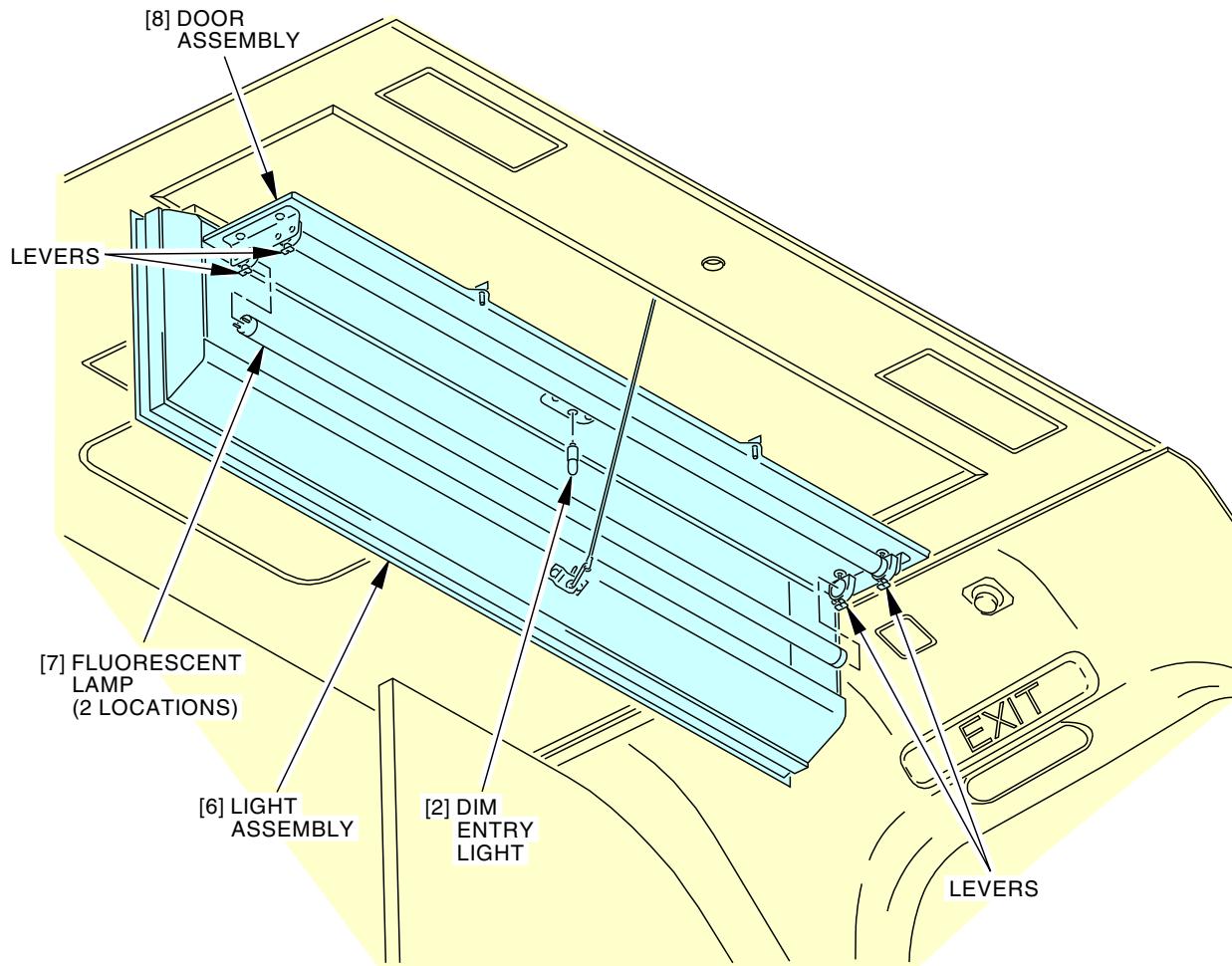
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AFT ENTRY LIGHT

D

F85188 S0006576094\_V3

Entry Light - Lamp Replacement  
Figure 202/33-29-00-990-801 (Sheet 3 of 3)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

**33-29-00**

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LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)

**TASK 33-29-00-960-802**

**5. Entry Light - Dim Entry Light Replacement**

(Figure 202)

**A. References**

Reference	Title
WDM 33-29-11	Wiring Diagram Manual

**B. Location Zones**

Zone	Area
221	Passenger Compartment - Aft of Control Compartment to Forward Entry Door - Left
222	Passenger Compartment - Aft of Control Compartment to Forward Entry Door - Right
241	Aft Passenger Compartment - Station 663.75 to Aft Pressure Bulkhead - Left
242	Aft Passenger Compartment - Station 663.75 to Aft Pressure Bulkhead - Right

**C. Procedure**

SUBTASK 33-29-00-860-004

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

**F/O Electrical System Panel, P6-4**

Row	Col	Number	Name
E	9	C00155	ENTRY LIGHTS DIM

SUBTASK 33-29-00-860-005

- (2) At the forward attendant panel, set the switch for the entry lights to the off mode.

SUBTASK 33-29-00-960-002



DO NOT TOUCH THE SOCKETS OR THE METAL ENDS OF THE LAMP.  
SHOCK CAN OCCUR WHEN YOU SUPPLY ELECTRICAL POWER TO THE  
LIGHT.

- (3) Do these steps to replace the dim entry light (WDM 33-29-11):

- (a) Lower the applicable lens assembly [1] or light assembly [6].

NOTE: For the forward entry light, lower the left side of the lens assembly. For the aft entry light, lower the aft side of the light assembly.

- (b) For the aft entry light, lift the back of the door assembly [8] to get access to the lamp.

- (c) Replace the dim entry light [2].

- (d) For the aft entry light, close the back of the door assembly [8].

- (e) Close the applicable lens assembly [1] or light assembly [6].

SUBTASK 33-29-00-710-002

- (4) Do a test of the new lamp:

EFFECTIVITY  
LOM ALL

**33-29-00**



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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)**

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

**F/O Electrical System Panel, P6-4**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
E	9	C00155	ENTRY LIGHTS DIM

- (b) Make sure the light comes on.

NOTE: The light is energized by the 28 volt dc hot battery bus.

SUBTASK 33-29-00-860-007

- (5) Set the switch for the entry lights to the usual mode.

———— END OF TASK ————

**TASK 33-29-00-960-804**

**6. Entry Light - Ballast Replacement**

(Figure 203)

**A. References**

<b>Reference</b>	<b>Title</b>
25-21-71-400-807	Entry Panel Installation (P/B 401)
WDM 33-29-11	Wiring Diagram Manual

**B. Location Zones**

<b>Zone</b>	<b>Area</b>
221	Passenger Compartment - Aft of Control Compartment to Forward Entry Door - Left
222	Passenger Compartment - Aft of Control Compartment to Forward Entry Door - Right
241	Aft Passenger Compartment - Station 663.75 to Aft Pressure Bulkhead - Left
242	Aft Passenger Compartment - Station 663.75 to Aft Pressure Bulkhead - Right

**C. Procedure**

SUBTASK 33-29-00-860-012

- (1) Do this task: Entry Light - Deactivation, TASK 33-29-00-040-801.

SUBTASK 33-29-00-960-004

- (2) Do these steps to replace the ballast (WDM 33-29-11):

- (a) Lower the applicable entry light for access to the top side of the light assembly housing.  
NOTE: Lower the forward side of the forward entry light. Lower the aft side of the aft entry light.
- (b) Disconnect the electrical connector [22].
- (c) Remove the screws [24] and washers [23].
- (d) Replace the ballast [21].
- (e) Install the screws [24] and washers [23].
- (f) Connect the electrical connector [22].
- (g) Close the entry light (Entry Panel Installation, TASK 25-21-71-400-807).

SUBTASK 33-29-00-860-013

- (3) Do this task: Entry Light - Activation, TASK 33-29-00-440-801.

EFFECTIVITY
LOM ALL

**33-29-00**



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

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)**

SUBTASK 33-29-00-710-004

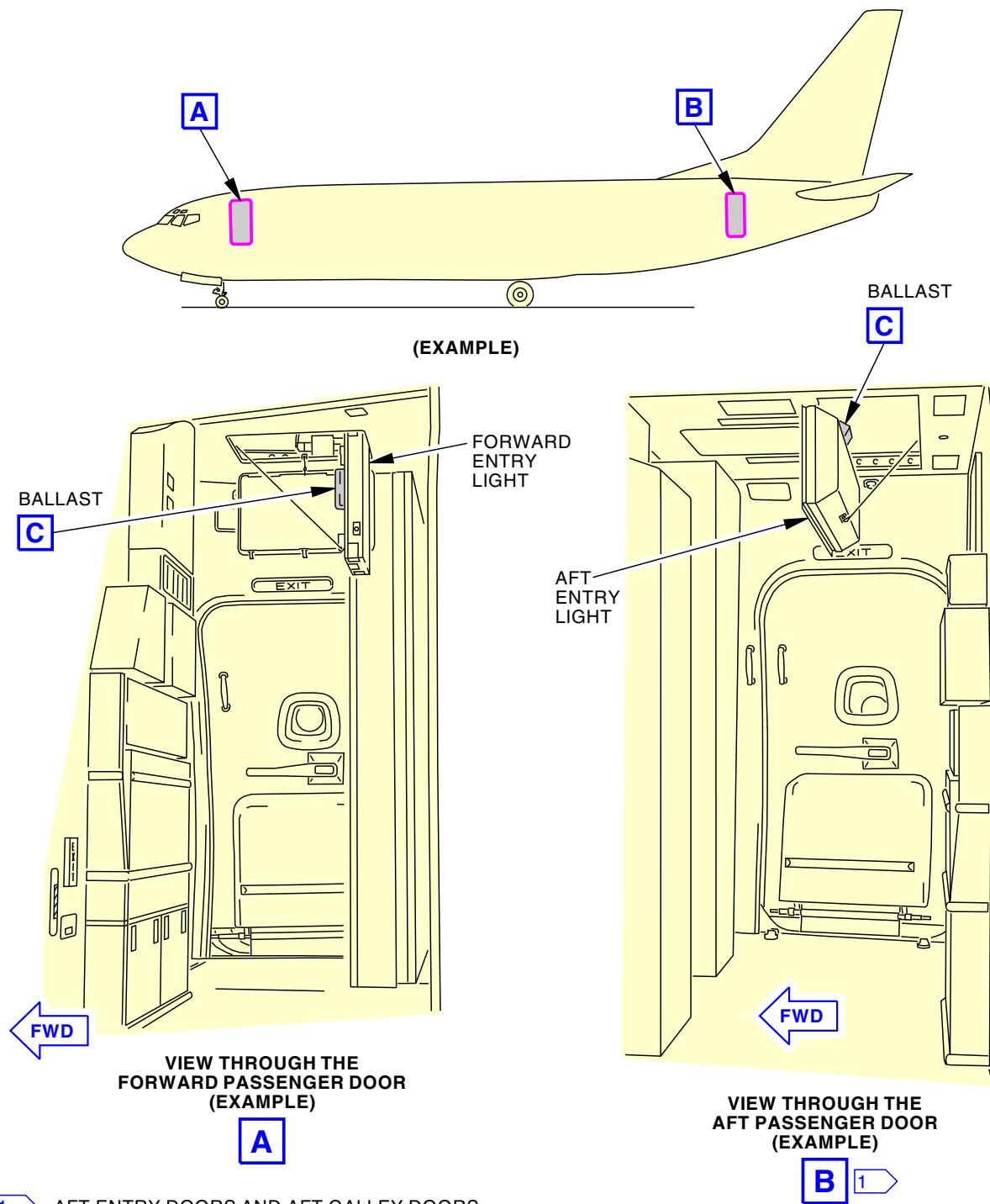
(4) Do a test of the new ballast:

- (a) Make sure that the flight compartment door is closed when you replace a ballast for the forward entry light assembly.
- (b) At the forward attendant panel, set the switch for the entry lights to the bright mode.
  - 1) Make sure that the fluorescent lamps come on brightly.
- (c) Set the switch to the dim mode.
  - 1) Make sure that the fluorescent lamps become dim.
- (d) Set the switch to the off mode.
  - 1) Make sure that the fluorescent lamps go off.

———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-29-00**



1 AFT ENTRY DOORS AND AFT GALLEY DOORS ARE DEACTIVATED FOR BCF PLANES

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**Entry Light - Ballast Replacement**  
**Figure 203/33-29-00-990-802 (Sheet 1 of 2)**

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

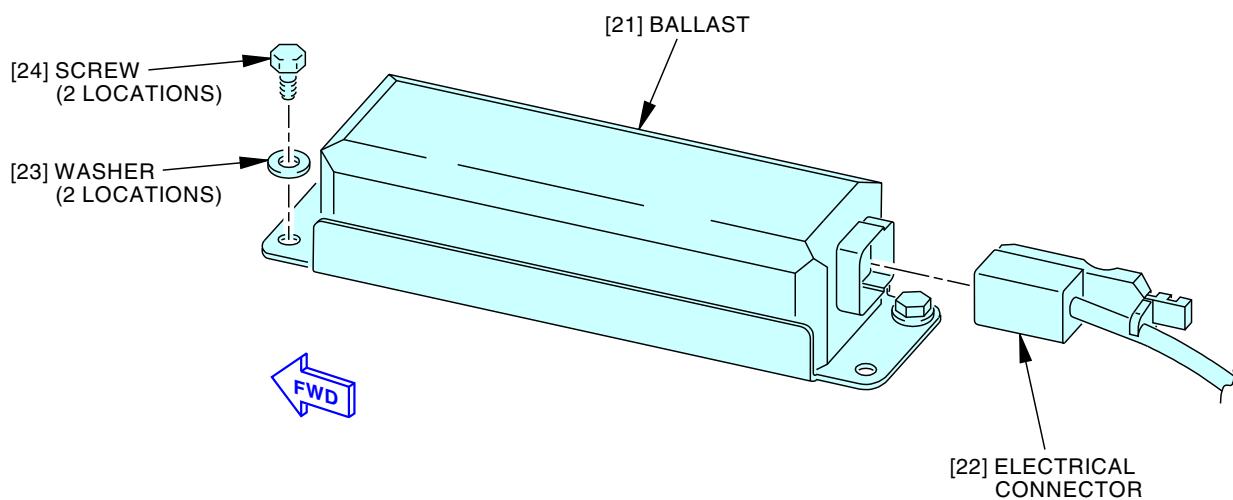
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BALLAST  
(EXAMPLE)

C

F85356 S0006576099\_V2

Entry Light - Ballast Replacement  
Figure 203/33-29-00-990-802 (Sheet 2 of 2)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

**33-29-00**

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LOM 461-463, 466-999; LOM 402, 404, 406, 407, 420, 422, 425-431, 433, 434 PRE SB 737-25-1689

**TASK 33-29-00-960-803**

**7. Entry Light - Threshold Light Lamp Replacement**

(Figure 204)

**A. References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
WDM 33-29-11	Wiring Diagram Manual

**B. Location Zones**

Zone	Area
200	Upper Half of Fuselage

**C. Procedure**

**LOM 402, 404, 406, 407, 420, 422, 425, 426 PRE SB 737-25-1689**

SUBTASK 33-29-00-860-009

- (1) At the forward attendant panel, set the switch for the entry lights to the off mode.

**LOM 461-463, 466-999; LOM 427-431, 433, 434 PRE SB 737-25-1689**

SUBTASK 33-29-00-860-020

- (2) Do these steps at the forward attendant control panel:
  - (a) Make sure that the attendant control panel display is activated. To activate it, touch the opposite corners of the display sequentially within two seconds.
  - (b) On the attendant control panel display, touch the Lighting tab.
  - (c) Below the Forward Entry Area, Entry section, touch the OFF button.

**LOM 461-463, 466-999; LOM 402, 404, 406, 407, 420, 422, 425-431, 433, 434 PRE SB 737-25-1689**

SUBTASK 33-29-00-960-003



**WARNING**

DO NOT TOUCH THE SOCKETS OR THE METAL ENDS OF THE LAMP.  
WHEN ELECTRICAL POWER IS SUPPLIED TO THE LIGHT, ELECTRICAL  
SHOCK CAN OCCUR.

- (3) Do these steps to replace the lamp in the threshold light (WDM 33-29-11):
  - (a) Use a slim, flat tool to lift the lens [22] away from the light assembly.
  - (b) Replace the lamp [21].
  - (c) Align the lens [22] and push it on to the light assembly.

SUBTASK 33-29-00-860-010

- (4) Make sure electrical power is supplied to the airplane. To supply it, do this task: Supply Electrical Power, TASK 24-22-00-860-811.

**LOM 402, 404, 406, 407, 420, 422, 425, 426 PRE SB 737-25-1689**

SUBTASK 33-29-00-710-003

- (5) Do a test of the new lamp:
  - (a) Set the switch for the entry lights to the bright mode.

EFFECTIVITY  
LOM ALL

**33-29-00**



**737-600/700/800/900  
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**LOM 402, 404, 406, 407, 420, 422, 425, 426 PRE SB 737-25-1689 (Continued)**

- 1) Make sure the light comes on.
- (b) Set the switch to the off mode.
- 1) Make sure the light goes off.

**LOM 461-463, 466-999; LOM 427-431, 433, 434 PRE SB 737-25-1689**

SUBTASK 33-29-00-710-006

- (6) Do a test of the new lamp:

- (a) On the forward attendant control panel, touch the Lighting tab.
- (b) Below the Forward Entry Area, Entry section, touch the White BRIGHT button.
  - 1) Make sure that threshold light comes on brightly.

NOTE: Threshold light operation is connected to the forward direct entry light. The threshold light is only on when the forward direct entry light is set to white bright.
- (c) Below the Forward Entry Area, Entry section, touch the OFF button.
  - 1) Make sure that the threshold light is off.

**LOM 461-463, 466-999; LOM 402, 404, 406, 407, 420, 422, 425-431, 433, 434 PRE SB 737-25-1689**

SUBTASK 33-29-00-860-011

- (7) If it is not necessary, remove electrical power. To remove it, do this task: Remove Electrical Power, TASK 24-22-00-860-812.

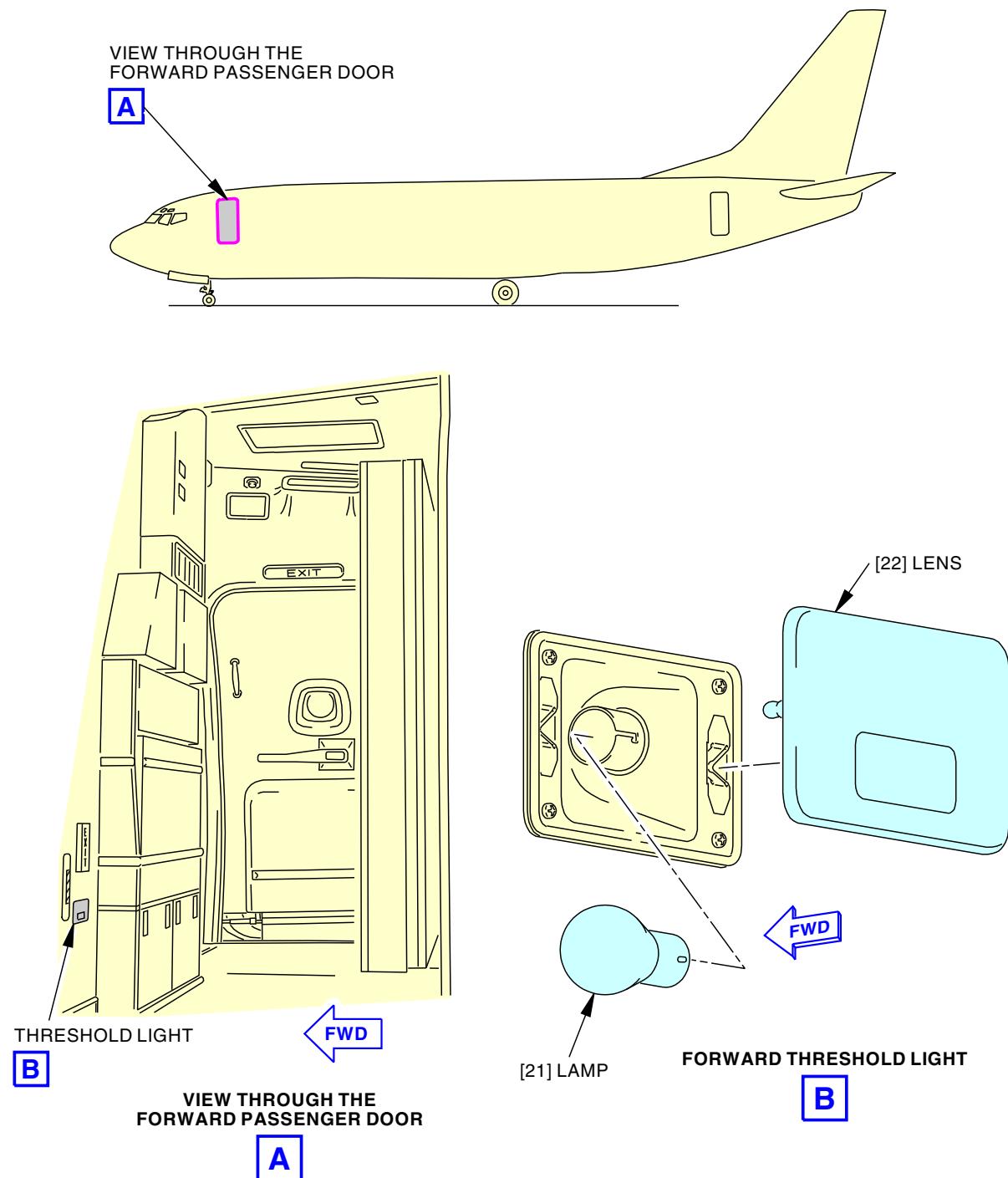
———— END OF TASK ————

EFFECTIVITY  
**LOM ALL**

**33-29-00**



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AIRCRAFT MAINTENANCE MANUAL



2024863 S0000402961\_V2

**Entry Light - Threshold Light Lamp Replacement**  
Figure 204/33-29-00-990-804

EFFECTIVITY  
LOM 461-463, 466-999; LOM 402, 404, 406, 407, 420,  
422, 425-431, 433, 434 PRE SB 737-25-1689

**33-29-00**

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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LOM 427-434, 437-447, 450-999

**TASK 33-29-00-960-805**

**8. Entry Light - Dim Entry LED Light Assembly Replacement**

**A. References**

Reference	Title
24-22-00-860-813	Supply External Power (P/B 201)
WDM 33-29-11	Wiring Diagram Manual

**B. Location Zones**

Zone	Area
200	Upper Half of Fuselage

**C. Entry Light - Dim Entry Light Assembly Replacement**

SUBTASK 33-29-00-860-016

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

**F/O Electrical System Panel, P6-4**

Row	Col	Number	Name
E	9	C00155	ENTRY LIGHTS DIM

(WDM 33-29-11)

SUBTASK 33-29-00-020-001

- (2) Do these steps to remove the dim entry light assembly [41]:

- Lower the applicable panel to get access to the dim entry light assembly [41].
- Disconnect the connector [44] from the dim entry light assembly [41].
- Hold the lens when you push the clips along the sides of the light assembly [41] to release the housing [45] from the retainer [43].
- Remove the housing [45] from the ceiling panel.
- Remove the retainer [43] and gasket [42].

SUBTASK 33-29-00-420-001

- (3) Do these steps to install the dim entry light [41] assembly:

- Push the clips to remove the retainer [43] and gasket [42] from the housing [45].
- Slide the housing [45] through the ceiling panel mounting hole.
- Place the gasket [42] and retainer [43] on the housing [45].
- Carefully push the lens and retainer [43] together until the clips latch the housing [45] to the retainer [43].
- Connect the electrical connector [44] to the dim entry light assembly [41].

SUBTASK 33-29-00-860-017

- (4) Make sure that external electrical power is supplied to the airplane.

- If necessary, do this task: Supply External Power, TASK 24-22-00-860-813.

SUBTASK 33-29-00-710-005

- (5) Do a test of the dim entry light assembly [41]:

EFFECTIVITY  
LOM ALL

**33-29-00**



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**LOM 427-434, 437-447, 450-999 (Continued)**

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

**F/O Electrical System Panel, P6-4**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
E	9	C00155	ENTRY LIGHTS DIM

- (b) Make sure that the light comes on.

NOTE: The light is energized by the 28 volt dc hot battery bus.

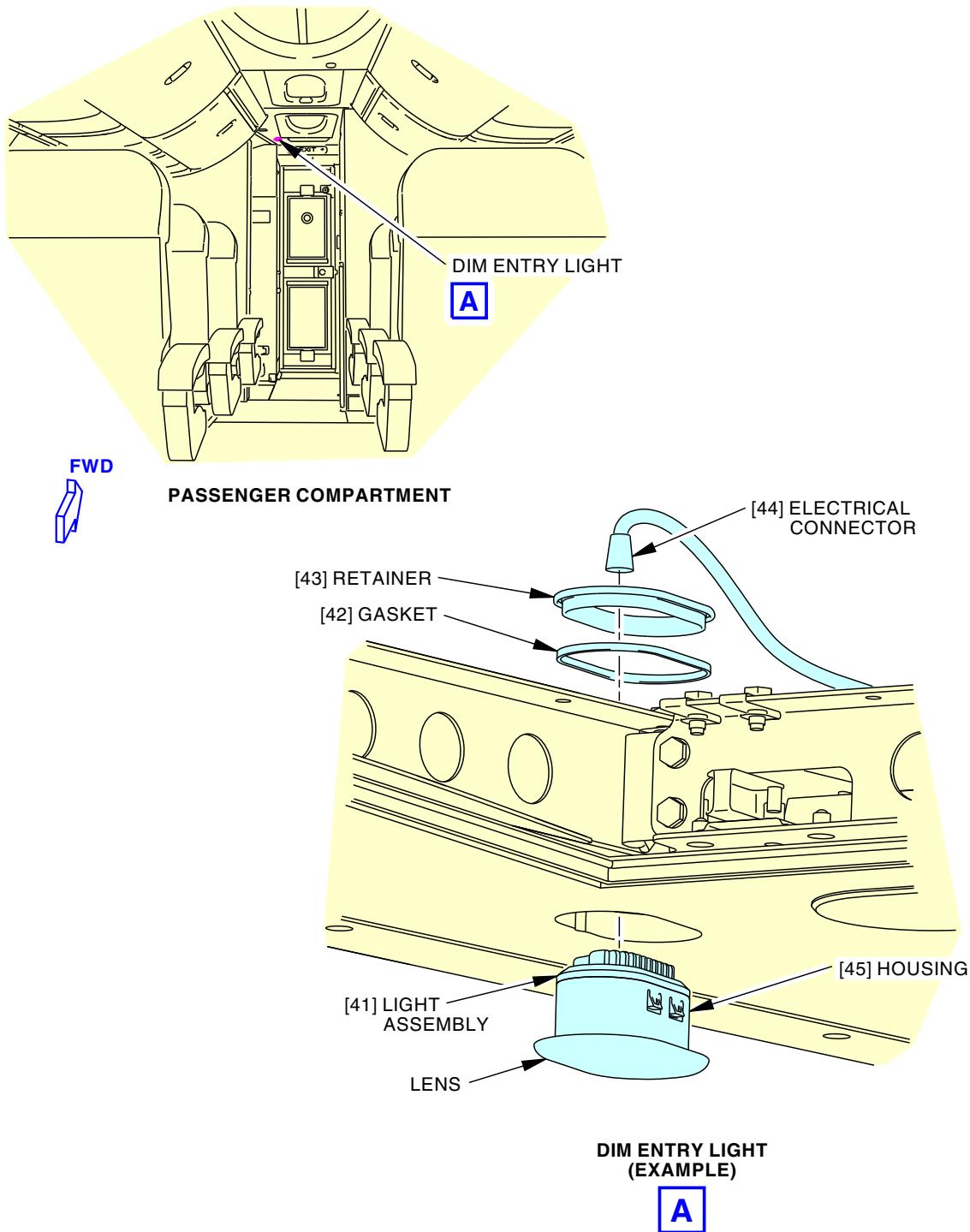
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— EFFECTIVITY —  
**LOM ALL**

**33-29-00**



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**Entry Light - Dim Entry Light Assembly Replacement**  
**Figure 205/33-29-00-990-803**

EFFECTIVITY  
LOM 427-434, 437-447, 450-999

**33-29-00**

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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WHEEL WELL LIGHTS - MAINTENANCE PRACTICES

**1. General**

- A. This procedure has these tasks:
- (1) Wheel Well Lights Deactivation.
  - (2) Wheel Well Lights Activation.
  - (3) Wheel Well Light Lamp Replacement.
  - (4) Wheel Well Light Assembly Removal.
  - (5) Wheel Well Light Assembly Installation.
  - (6) Wheel Well Lights Operational Test.

**TASK 33-32-00-040-801**

**2. Wheel Well Lights - Deactivation**

(Figure 201)

**A. General**

- (1) This procedure removes electrical power to the wheel well lights.

**B. Location Zones**

Zone	Area
115	Nose Landing Gear Wheel Well - Left
116	Nose Landing Gear Wheel Well - Right
118	Electrical and Electronics Compartment - Right
133	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Left
134	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

**C. Access Panels**

Number	Name/Location
117A	Electronic Equipment Access Door

**D. Wheel Well Lights Deactivation**

SUBTASK 33-32-00-010-001

- (1) To get access to the P92 panel, open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 33-32-00-860-006



**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

**33-32-00**



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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.

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

**Power Distribution Panel Number 2, P92**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	2	C00125	WHEEL WELL LT

**E. Wheel Well Lights - Tryout**

NOTE: This tryout is to make sure that the Wheel Well Lights are in a zero energy stage.

SUBTASK 33-32-00-860-007



**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.

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

**Power Distribution Panel Number 2, P92**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	2	C00125	WHEEL WELL LT

SUBTASK 33-32-00-410-005

- (2) Close this access panel:

**Number      Name/Location**

117A            Electronic Equipment Access Door

SUBTASK 33-32-00-700-001

- (3) Do the following steps for the Wheel Well Lights:

- (a) At the P5 overhead panel, set the wheel well lights switch to the ON mode.
- 1) Make sure that the NLG wheel well light does not come on.
  - 2) Make sure that none of the MLG wheel well lights come on.

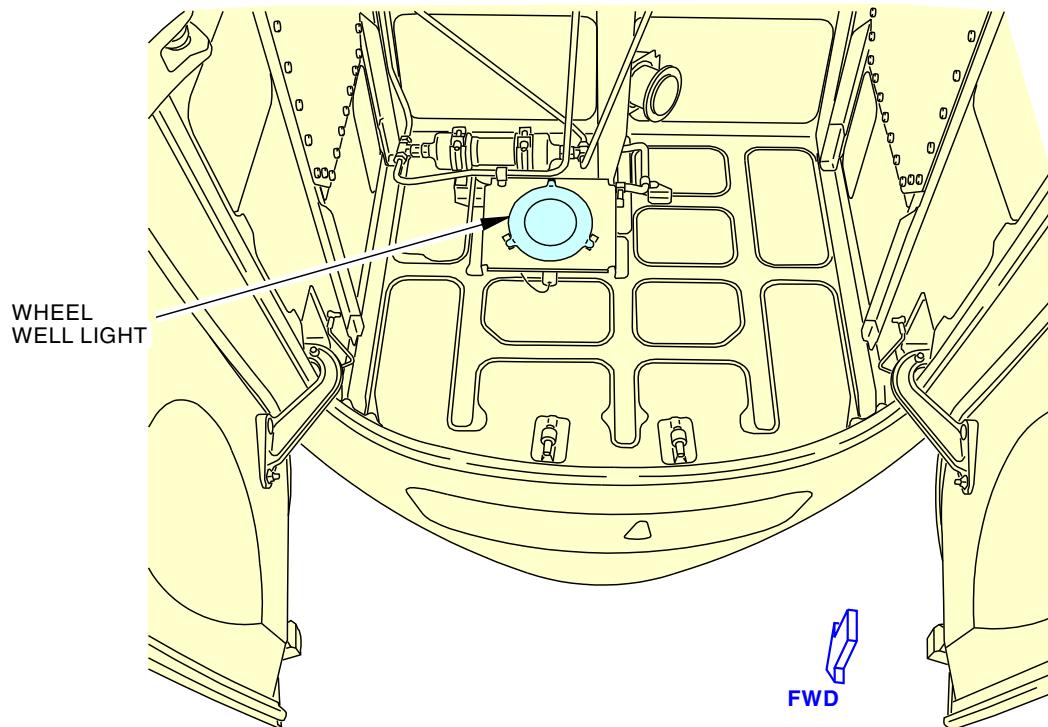
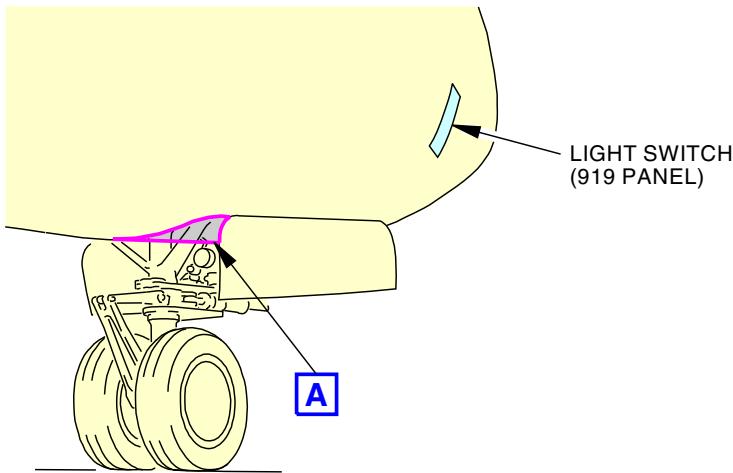
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— EFFECTIVITY —  
LOM ALL

**33-32-00**



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VIEW THROUGH THE NOSE LANDING GEAR WHEEL WELL

A

2383164 S0000543841\_V1

Wheel Well Lights  
Figure 201/33-32-00-990-802 (Sheet 1 of 3)

EFFECTIVITY  
LOM ALL

**33-32-00**

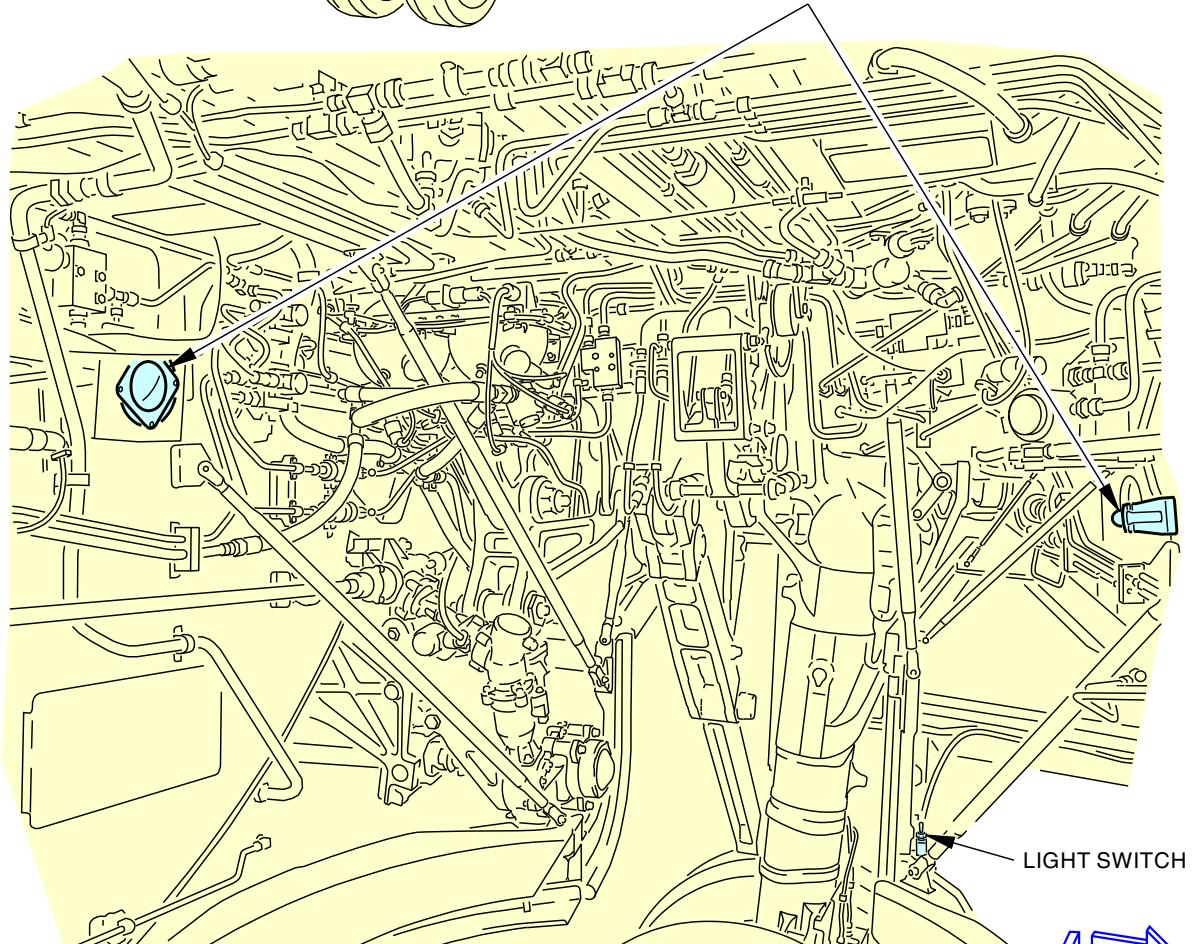
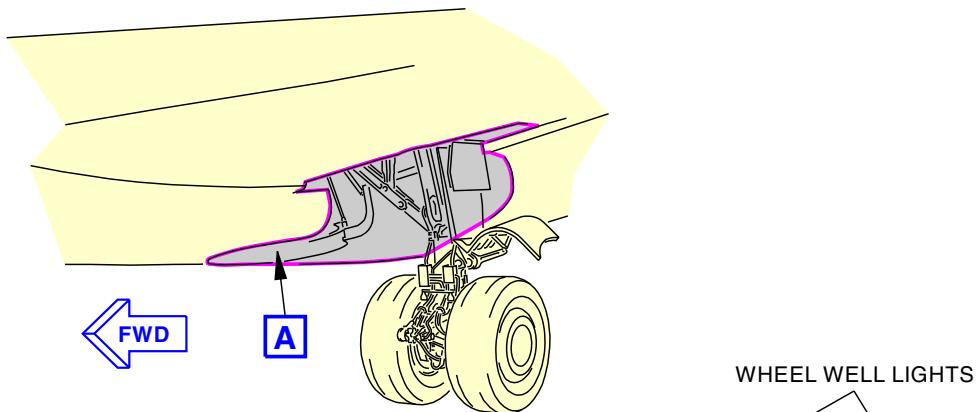
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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AIRCRAFT MAINTENANCE MANUAL



2383180 S0000543864\_V1

Wheel Well Lights  
Figure 201/33-32-00-990-802 (Sheet 2 of 3)

EFFECTIVITY  
LOM ALL

**33-32-00**

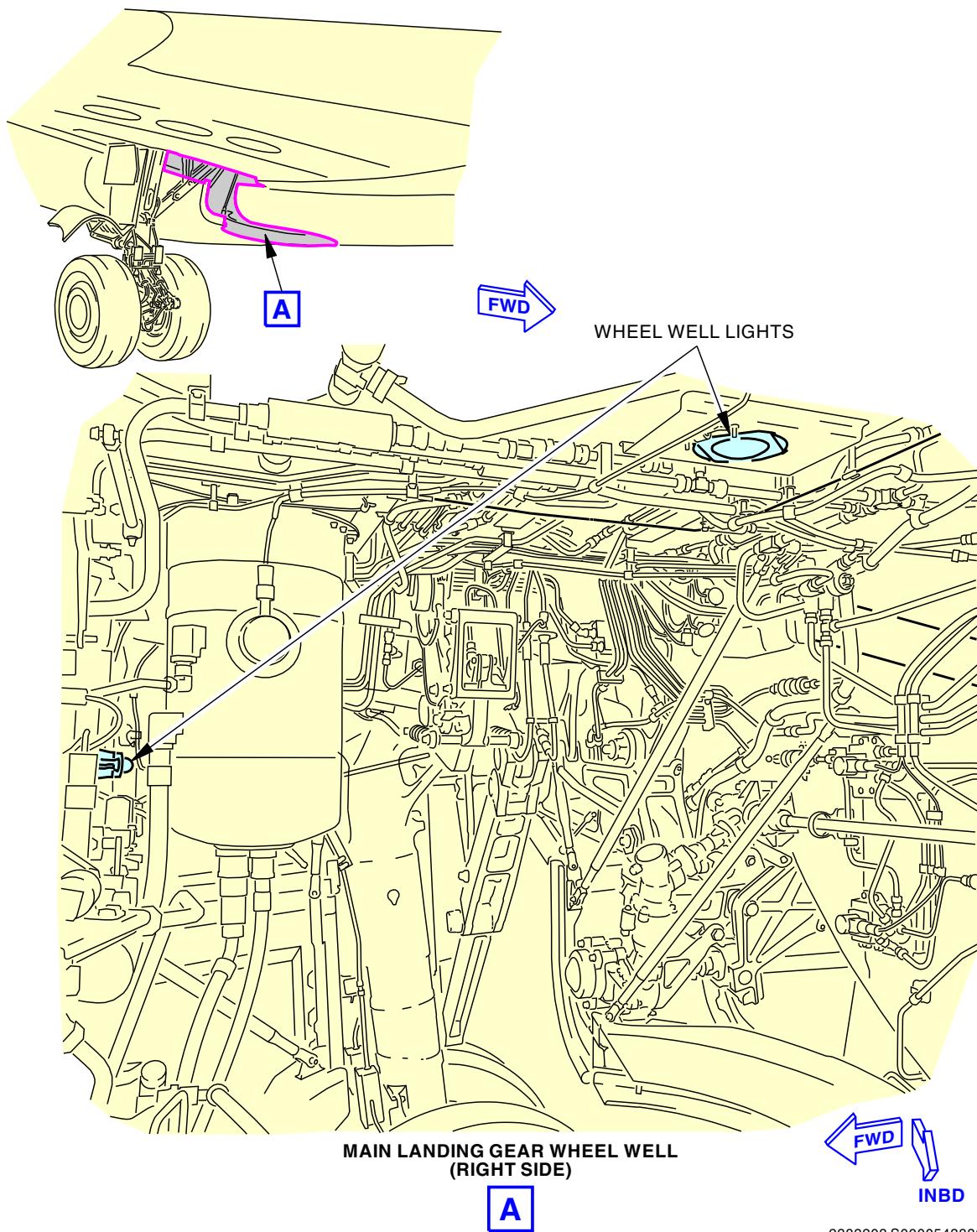
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**Wheel Well Lights**  
Figure 201/33-32-00-990-802 (Sheet 3 of 3)

EFFECTIVITY  
LOM ALL

**33-32-00**

D633A101-LOM

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**TASK 33-32-00-440-801**

**3. Wheel Well Lights - Activation**

(Figure 201)

**A. General**

- (1) This procedure adds electrical power to the wheel well lights.

**B. Location Zones**

Zone	Area
115	Nose Landing Gear Wheel Well - Left
116	Nose Landing Gear Wheel Well - Right
118	Electrical and Electronics Compartment - Right
133	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Left
134	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

**C. Access Panels**

Number	Name/Location
117A	Electronic Equipment Access Door

**D. Wheel Well Lights Activation**

SUBTASK 33-32-00-010-002

- (1) To get access to the P92 panel, open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 33-32-00-860-008



**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.

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

**Power Distribution Panel Number 2, P92**

Row	Col	Number	Name
C	2	C00125	WHEEL WELL LT

EFFECTIVITY  
LOM ALL

**33-32-00**



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SUBTASK 33-32-00-410-002

- (3) Close this access panel:

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

————— END OF TASK ————

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459

**TASK 33-32-00-960-801**

**4. Wheel Well Light - Lamp Replacement**

(Figure 202, Figure 203)

**A. References**

<u>Reference</u>	<u>Title</u>
WDM 33-32-11	Wiring Diagram Manual

**B. Expendables/Parts**

<u>AMM Item</u>	<u>Description</u>	<u>AIPC Reference</u>	<u>AIPC Effectivity</u>
1	Lamp	33-30-51-50A-025	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459
2	Gasket	33-30-51-50A-020	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459
6	Lamp	33-32-00-01A-040	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459
		33-32-00-02A-070	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459

**C. Location Zones**

<u>Zone</u>	<u>Area</u>
115	Nose Landing Gear Wheel Well - Left
116	Nose Landing Gear Wheel Well - Right
133	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Left
134	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Right

**D. Access Panels**

<u>Number</u>	<u>Name/Location</u>
114AR	External Power Receptacle Door

**E. Wheel Well Light Lamp Replacement**

SUBTASK 33-32-00-040-002

- (1) Do this task: Wheel Well Lights - Deactivation, TASK 33-32-00-040-801.



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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459 (Continued)**

SUBTASK 33-32-00-860-001

- (2) Make sure that the switch for the light is in the NORMAL setting (WDM 33-32-11).

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459; AIRPLANES WITH MAIN WHEEL WELL SERVICE LIGHT**

- (a) Use the switch on the left wall of the main wheel well.

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459; AIRPLANES WITH NOSE LANDING GEAR WHEEL WELL SERVICE LIGHT**

- (b) Use the switch on the P19 external power receptacle panel.

- 1) To get access to the P19 panel, open this access door:

Number    Name/Location

114AR      External Power Receptacle Door

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459**

SUBTASK 33-32-00-960-001

- (3) Do these steps to replace the lamp:

- (a) Loosen the applicable fasteners [4] or fasteners [8] and fastener [9].

- 1) If washers [7] are installed, remove them.

- (b) Remove the applicable lens assembly [3] or lens assembly [5].

- (c) Replace the applicable lamp [1] or lamp [6].

- (d) Install the applicable lens assembly [3] or lens assembly [5].

- 1) Check the gasket [2] if one is installed.

- 2) Check the gasket [10] if one is installed.

- 3) If the gasket [2] or gasket [10] is damaged, replace it.

- (e) Tighten the applicable fasteners [4] or fasteners [8] and fastener [9].

- 1) Tighten the fasteners [4] not more than 15 in-lb (2 N·m).

- 2) If washers [7] were removed, install them.

SUBTASK 33-32-00-440-001

- (4) Do this task: Wheel Well Lights - Activation, TASK 33-32-00-440-801.

SUBTASK 33-32-00-710-001

- (5) Do a test of the new lamp.

- (a) Set the switch for the light to the ON position.

- 1) Make sure that the lamp comes on.

- (b) Set the switch to the NORMAL position.

- 1) Make sure that the lamp goes off.

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459; AIRPLANES WITH NOSE LANDING GEAR WHEEL WELL SERVICE LIGHT**

SUBTASK 33-32-00-410-001

- (6) Close this access door:

Number    Name/Location

114AR      External Power Receptacle Door

EFFECTIVITY  
LOM ALL

**33-32-00**



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**AIRCRAFT MAINTENANCE MANUAL**

———— END OF TASK ————

———— EFFECTIVITY ————  
**LOM ALL**

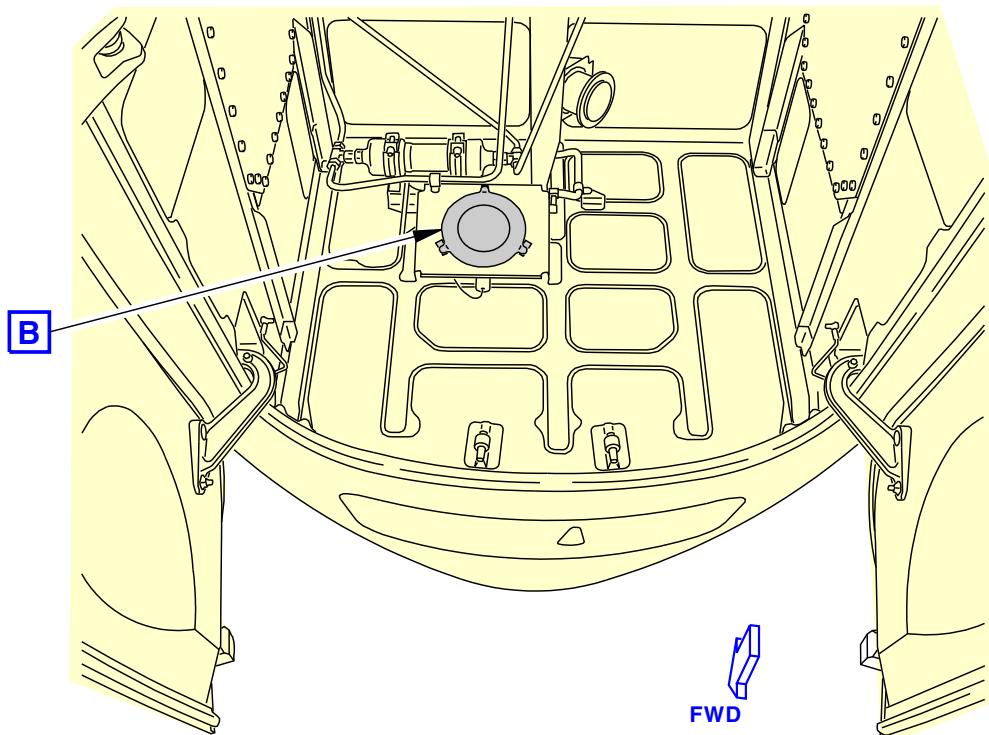
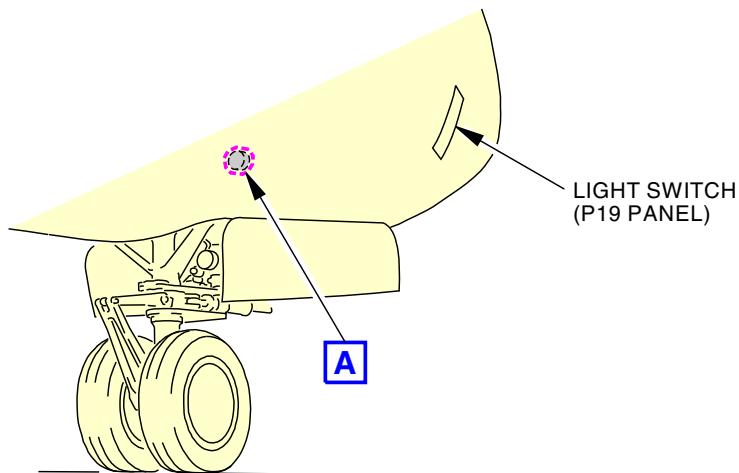
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VIEW THROUGH THE NOSE LANDING GEAR WHEEL WELL

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**Wheel Well Light - Lamp Replacement**  
Figure 202/33-32-00-990-801 (Sheet 1 of 2)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-459; AIRPLANES WITH NOSE  
LANDING GEAR WHEEL WELL SERVICE LIGHT

**33-32-00**

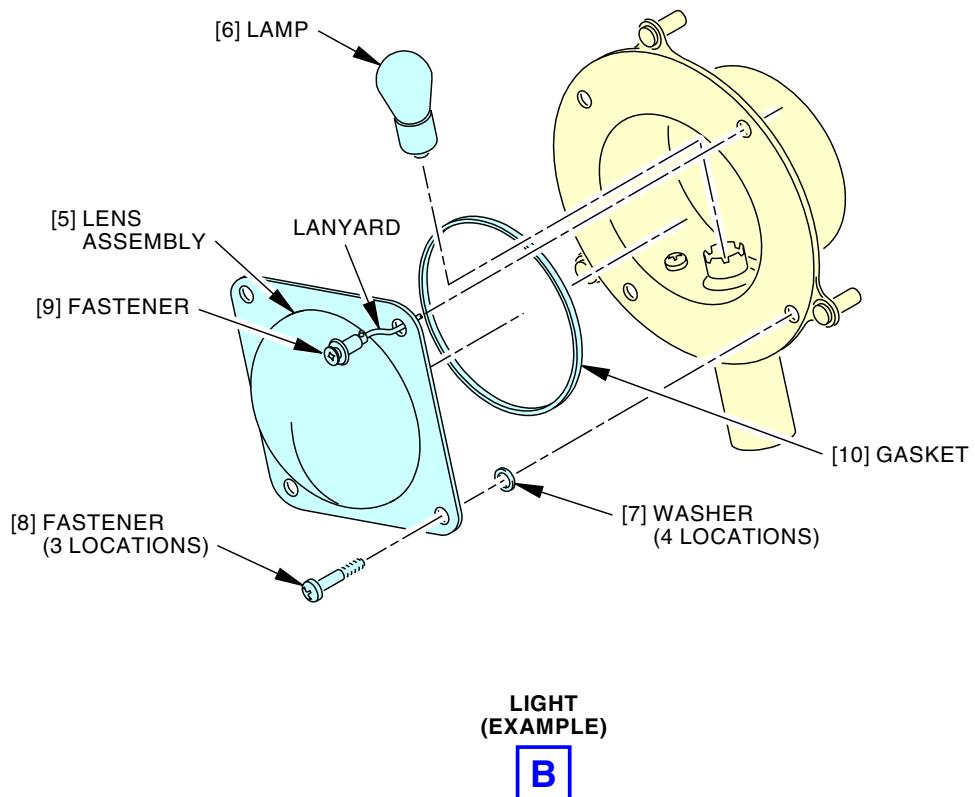
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Wheel Well Light - Lamp Replacement  
Figure 202/33-32-00-990-801 (Sheet 2 of 2)

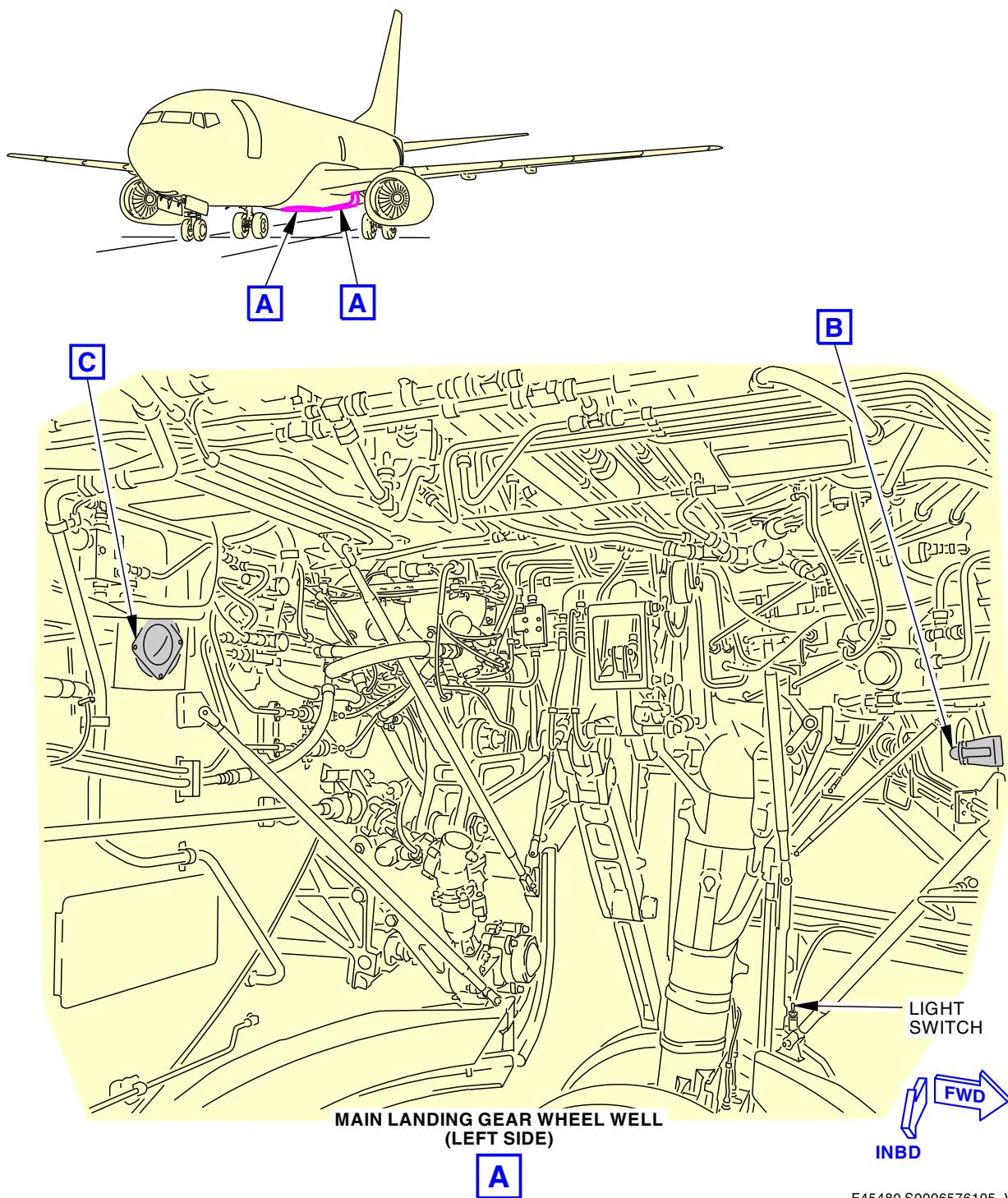
EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-459; AIRPLANES WITH NOSE  
LANDING GEAR WHEEL WELL SERVICE LIGHT

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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F45480 S0006576105\_V3

**Wheel Well Light - Lamp Replacement**  
Figure 203/33-32-00-990-806 (Sheet 1 of 3)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-459; AIRPLANES WITH MAIN  
WHEEL WELL SERVICE LIGHT

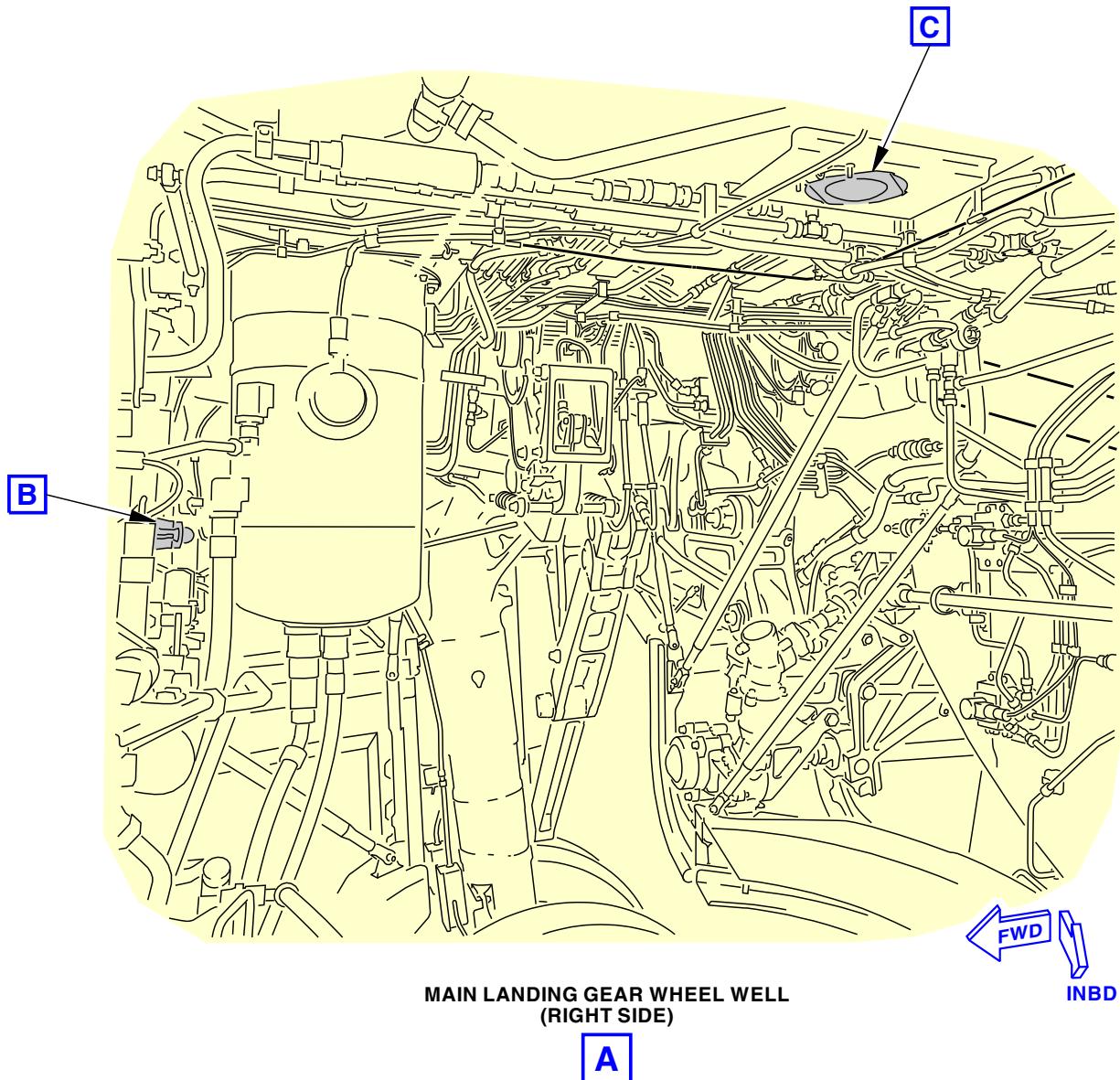
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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F50813 S0006576106\_V3

**Wheel Well Light - Lamp Replacement**  
Figure 203/33-32-00-990-806 (Sheet 2 of 3)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-459; AIRPLANES WITH MAIN  
WHEEL WELL SERVICE LIGHT

**33-32-00**

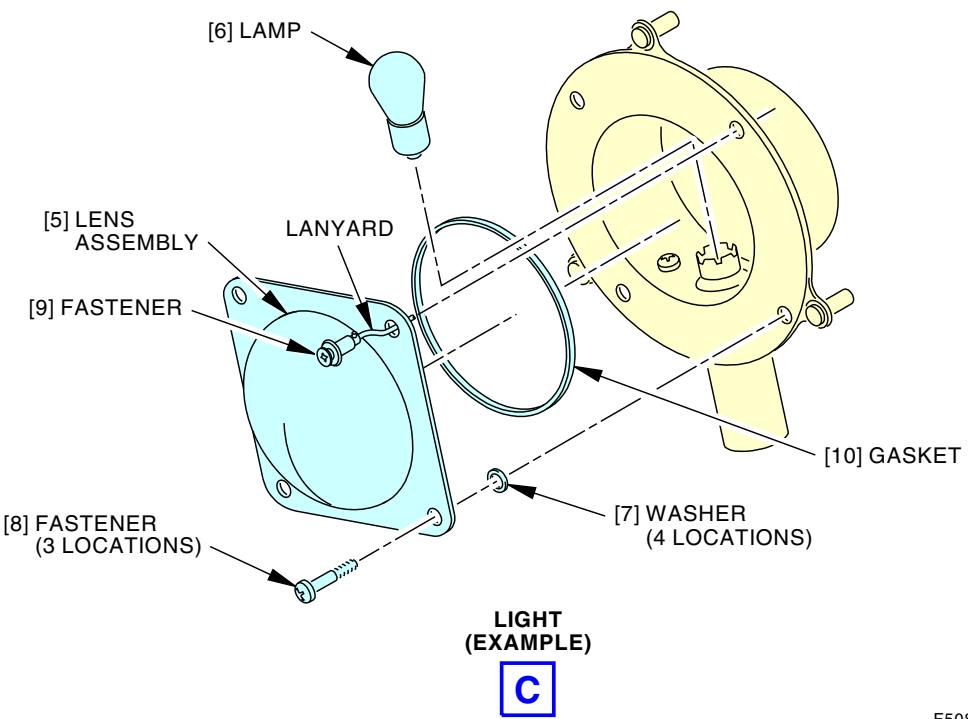
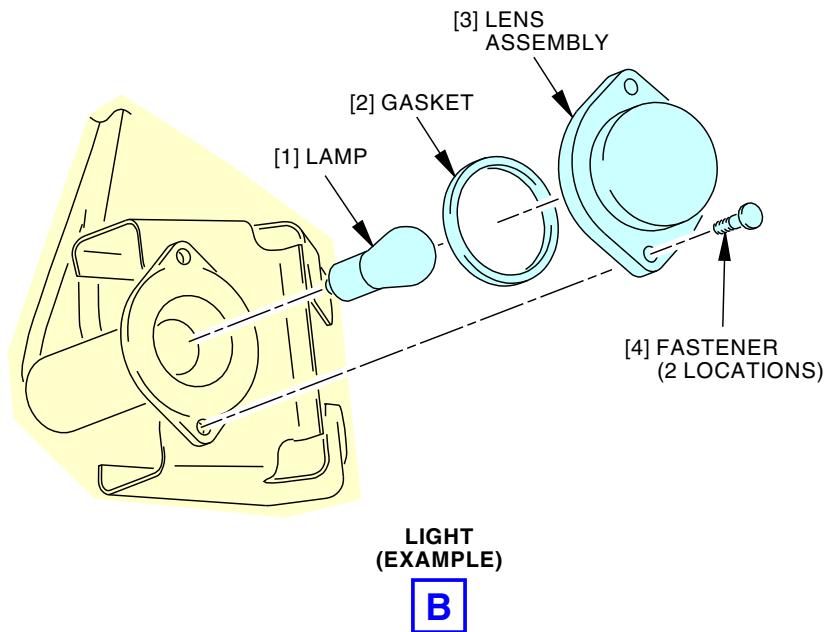
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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737-600/700/800/900  
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Wheel Well Light - Lamp Replacement  
Figure 203/33-32-00-990-806 (Sheet 3 of 3)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-459; AIRPLANES WITH MAIN  
WHEEL WELL SERVICE LIGHT

**33-32-00**

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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LOM ALL

**TASK 33-32-00-000-801**

**5. Wheel Well Light Assembly - Removal**

(Figure 204 or Figure 205, Figure 206 or Figure 207)

**A. General**

- (1) This task includes the steps to remove the wheel well light assembly.

**B. Location Zones**

Zone	Area
115	Nose Landing Gear Wheel Well - Left
116	Nose Landing Gear Wheel Well - Right
133	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Left
134	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Right

**C. Prepare for the Removal**

SUBTASK 33-32-00-860-010

- (1) Do this task: Wheel Well Lights - Deactivation, TASK 33-32-00-040-801.

**D. Wheel Well Light Assembly Removal**

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459**

SUBTASK 33-32-00-020-001

- (1) Do these steps to remove the light assembly [3]:

- Disconnect the wires from the light assembly [3].
- Remove the screws [1] and washers [2].

NOTE: Screws hold the front and back of the light assembly.

- Hold the light assembly [3] when you remove the screws [1].

- Remove the light assembly [3] from the bracket.

SUBTASK 33-32-00-020-002

- (2) Do these steps to remove the light assembly [4]:

- Disconnect the wire from the light assembly [4].
- Remove the screws [5], washers [6], and clip nuts [7] that connect the light assembly [4] to the support bracket.
- Remove the light assembly [4].

**LOM 460-999**

SUBTASK 33-32-00-020-003

- (3) Do these steps to remove the light assembly [8]:

- Disconnect the electrical connector from the light assembly [8].
  - Put the protective cover to the electrical connector.
- Loosen the screws [12].
- Remove the washers [13].
- Loosen the nut [9] from the jumper [11].
- Remove the washer [10].



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LOM 460-999 (Continued)

- (f) Remove the light assembly [8].

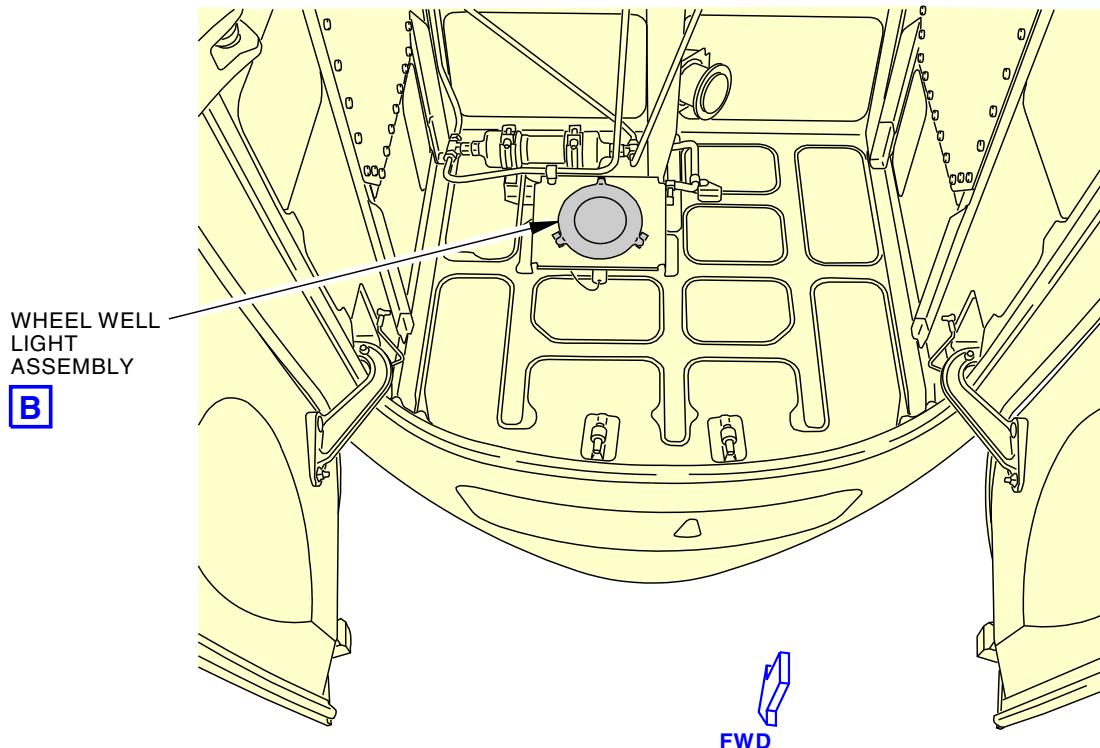
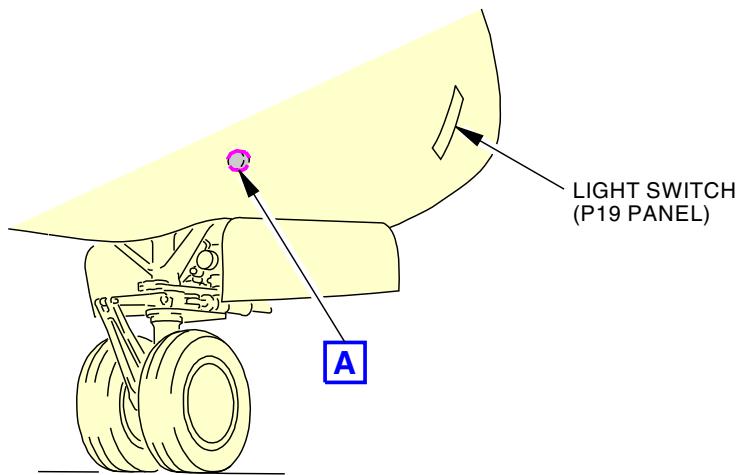
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— EFFECTIVITY —  
**LOM ALL**

**33-32-00**



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(VIEW THROUGH THE NOSE LANDING GEAR WHEEL WELL)

A

2904117 S0000694279\_V2

Nose Wheel Well Light Assembly - Installation  
Figure 204/33-32-00-990-803 (Sheet 1 of 2)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-459

**33-32-00**

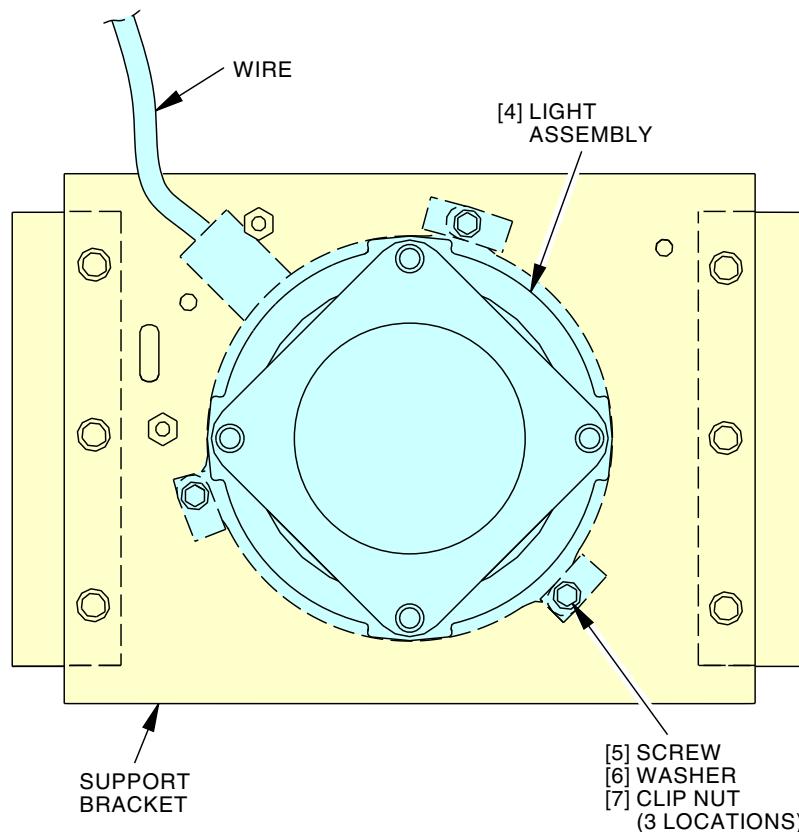
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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WHEEL WELL LIGHT ASSEMBLY  
(EXAMPLE)

B

2907258 S0000696542\_V1

Nose Wheel Well Light Assembly - Installation  
Figure 204/33-32-00-990-803 (Sheet 2 of 2)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-459

**33-32-00**

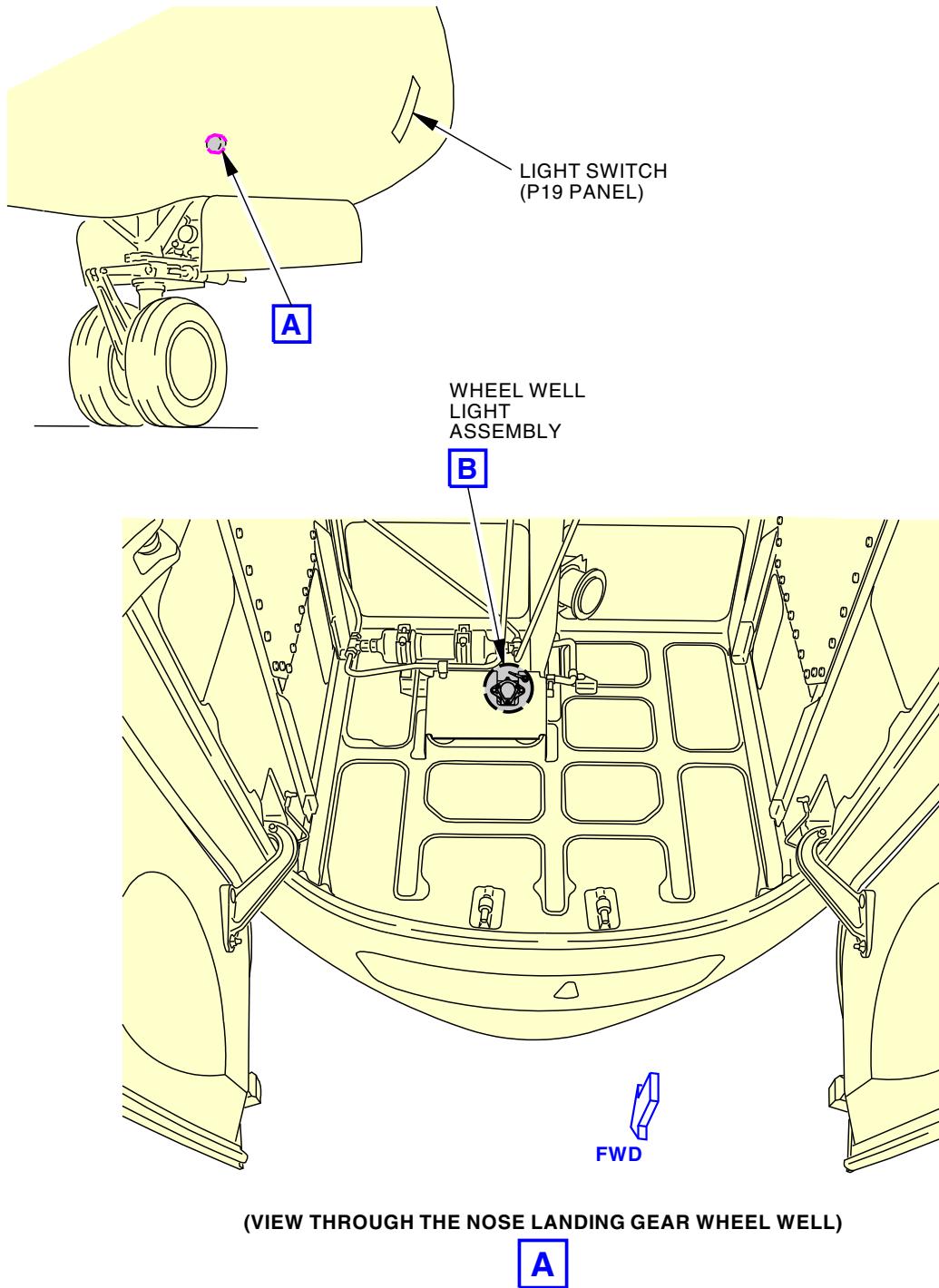
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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3044917 S0000811860\_V1

Nose Wheel Well Light Assembly - Installation  
Figure 205/33-32-00-990-812 (Sheet 1 of 2)

EFFECTIVITY  
LOM 460-999

**33-32-00**

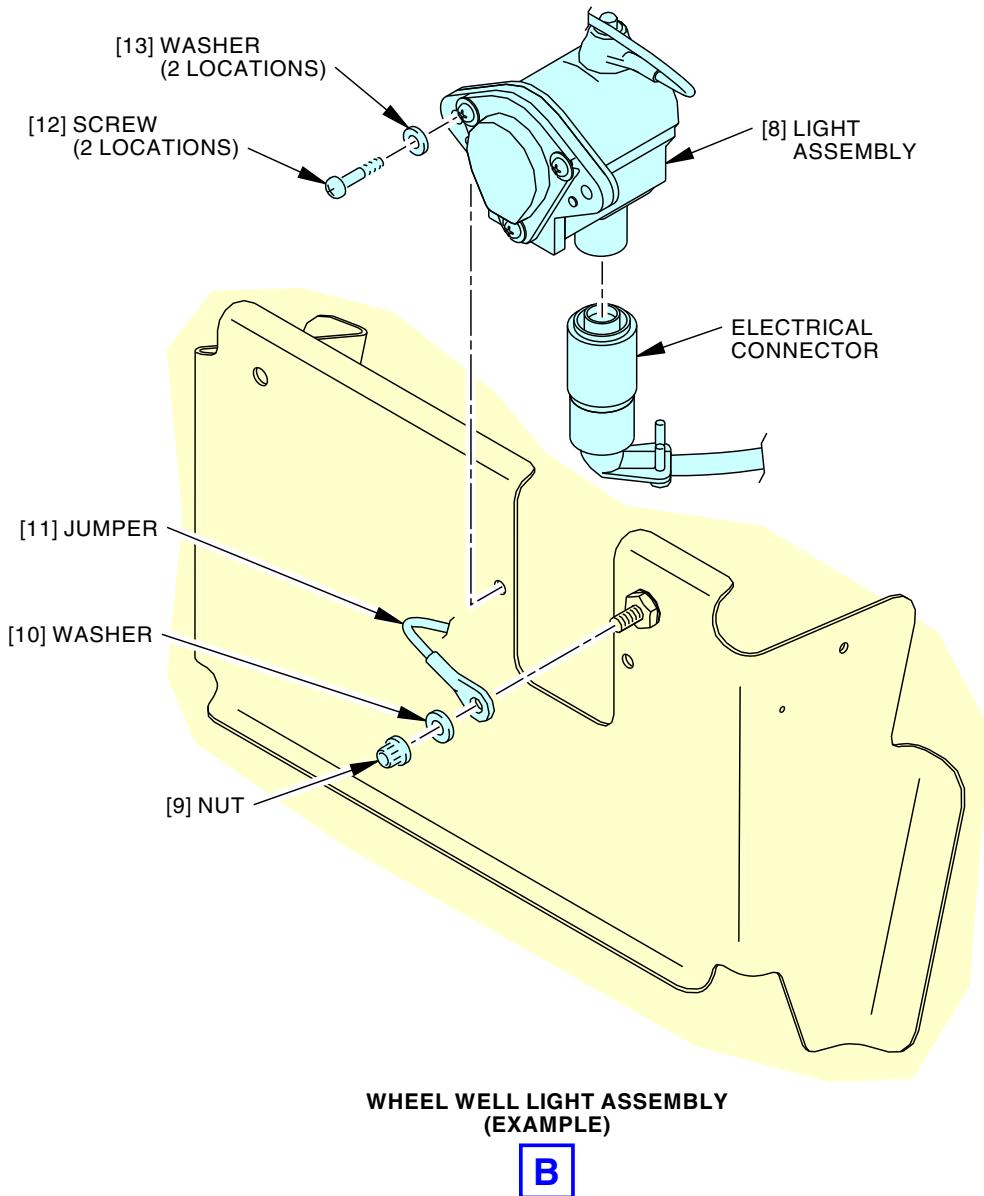
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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3044927 S0000811861\_V1

**Nose Wheel Well Light Assembly - Installation**  
**Figure 205/33-32-00-990-812 (Sheet 2 of 2)**

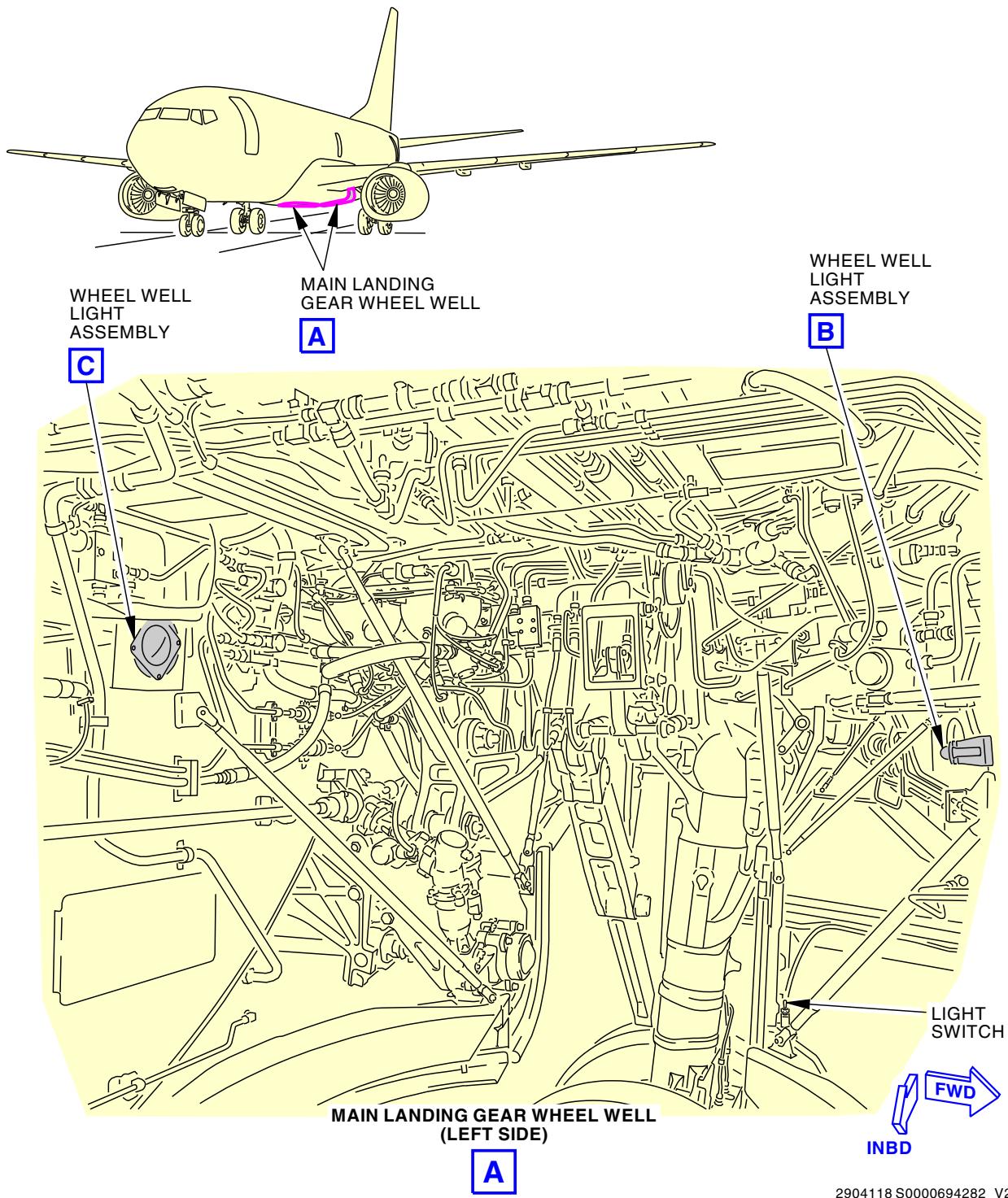
EFFECTIVITY  
LOM 460-999

**33-32-00**

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2904118 S0000694282\_V2

**Main Wheel Well Light Assembly - Installation**  
**Figure 206/33-32-00-990-807 (Sheet 1 of 4)**

EFFECTIVITY  
 LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
 422-434, 437-447, 450-459

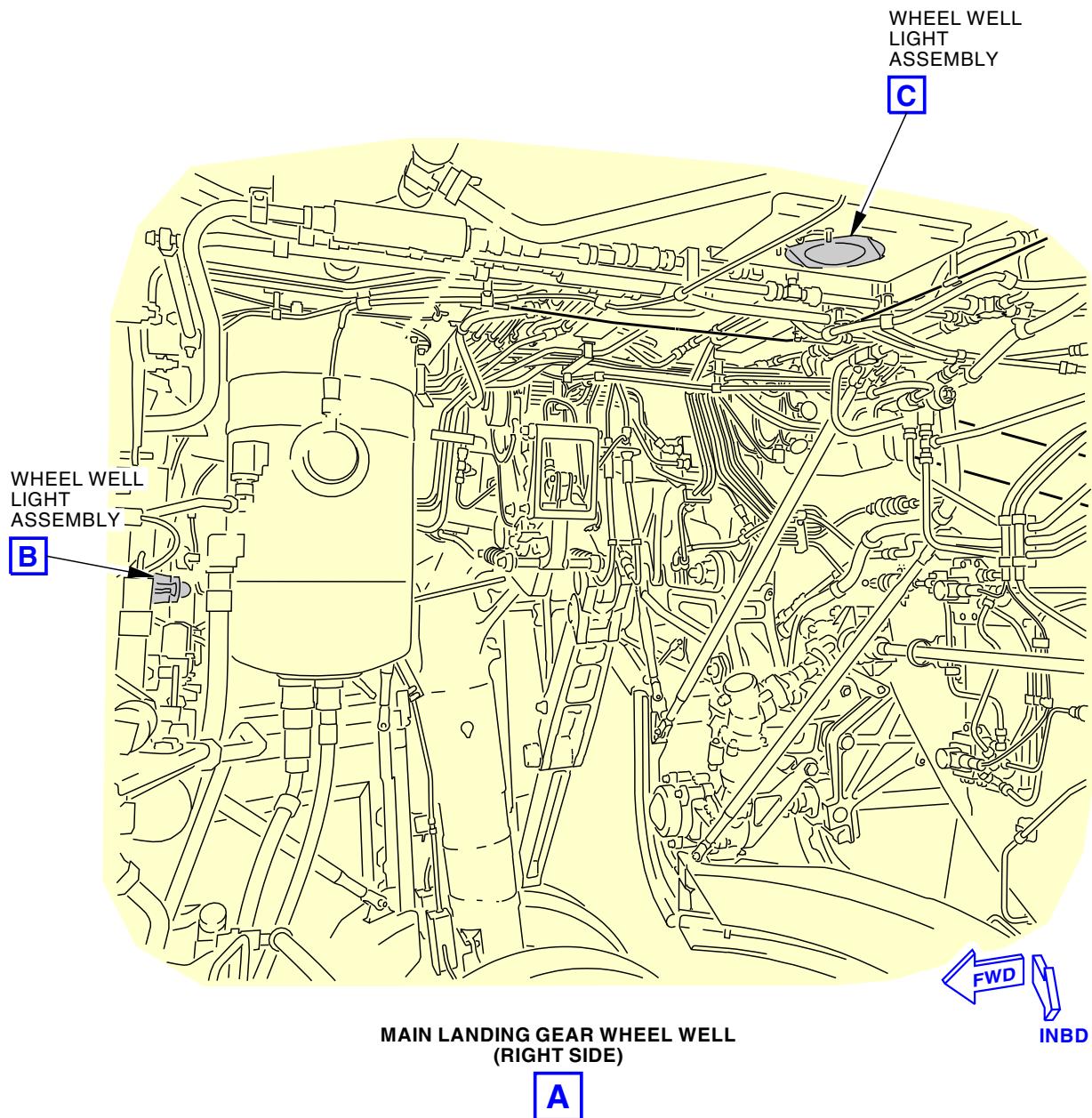
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ECCN 9E991 BOEING PROPRIETARY - See title page for details



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AIRCRAFT MAINTENANCE MANUAL



2904119 S0000694284\_V2

Main Wheel Well Light Assembly - Installation  
Figure 206/33-32-00-990-807 (Sheet 2 of 4)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-459

**33-32-00**

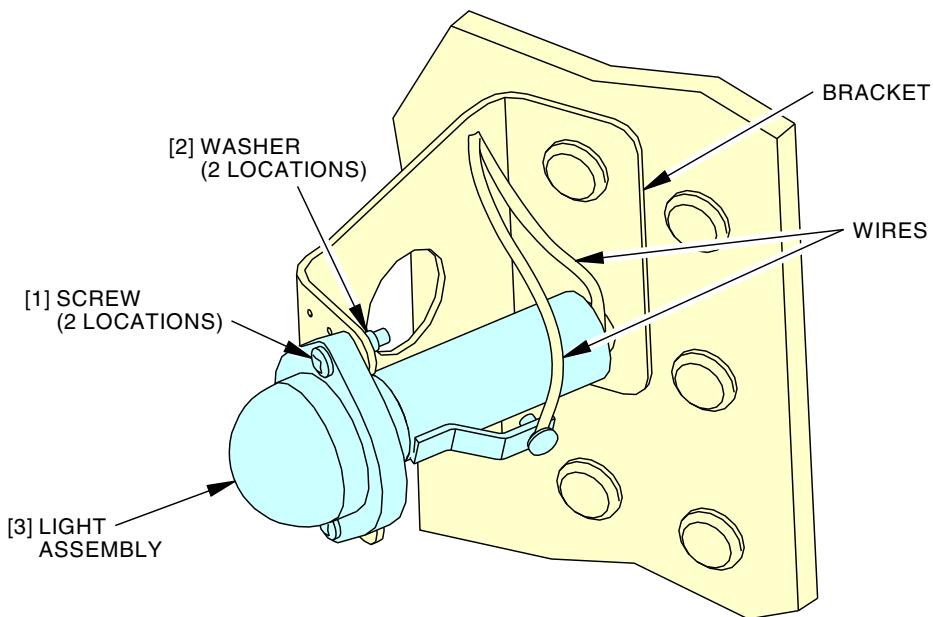
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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WHEEL WELL LIGHT ASSEMBLY  
(EXAMPLE)

B

2904122 S0000694286\_V1

Main Wheel Well Light Assembly - Installation  
Figure 206/33-32-00-990-807 (Sheet 3 of 4)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-459

**33-32-00**

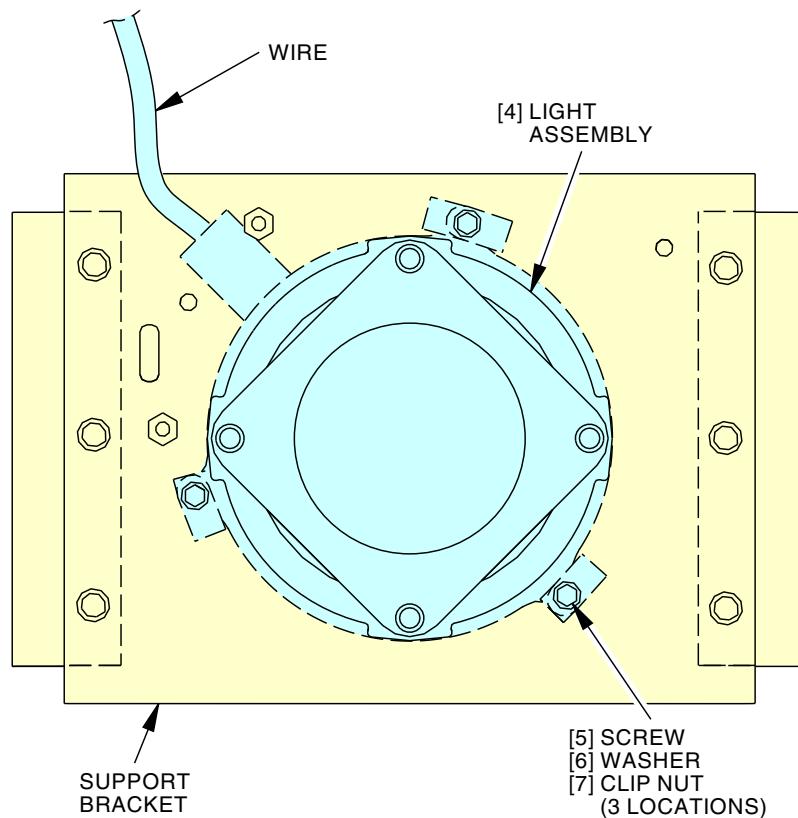
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WHEEL WELL LIGHT ASSEMBLY  
(EXAMPLE)

C

2904140 S0000694287\_V1

Main Wheel Well Light Assembly - Installation  
Figure 206/33-32-00-990-807 (Sheet 4 of 4)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-459

**33-32-00**

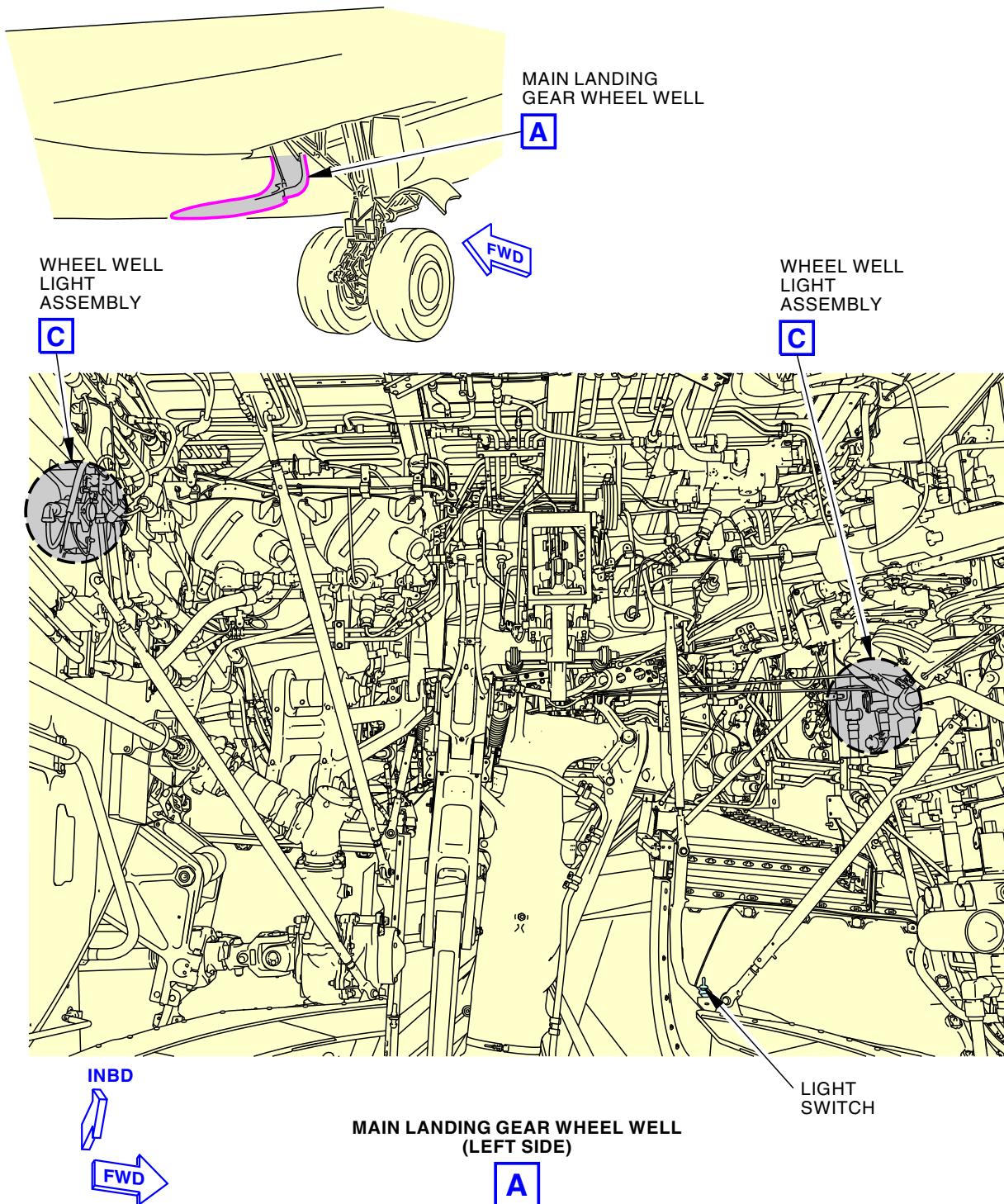
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2922500 S0000704524\_V2

Main Wheel Well Light Assembly - Installation  
Figure 207/33-32-00-990-810 (Sheet 1 of 3)

EFFECTIVITY  
LOM 460-999

**33-32-00**

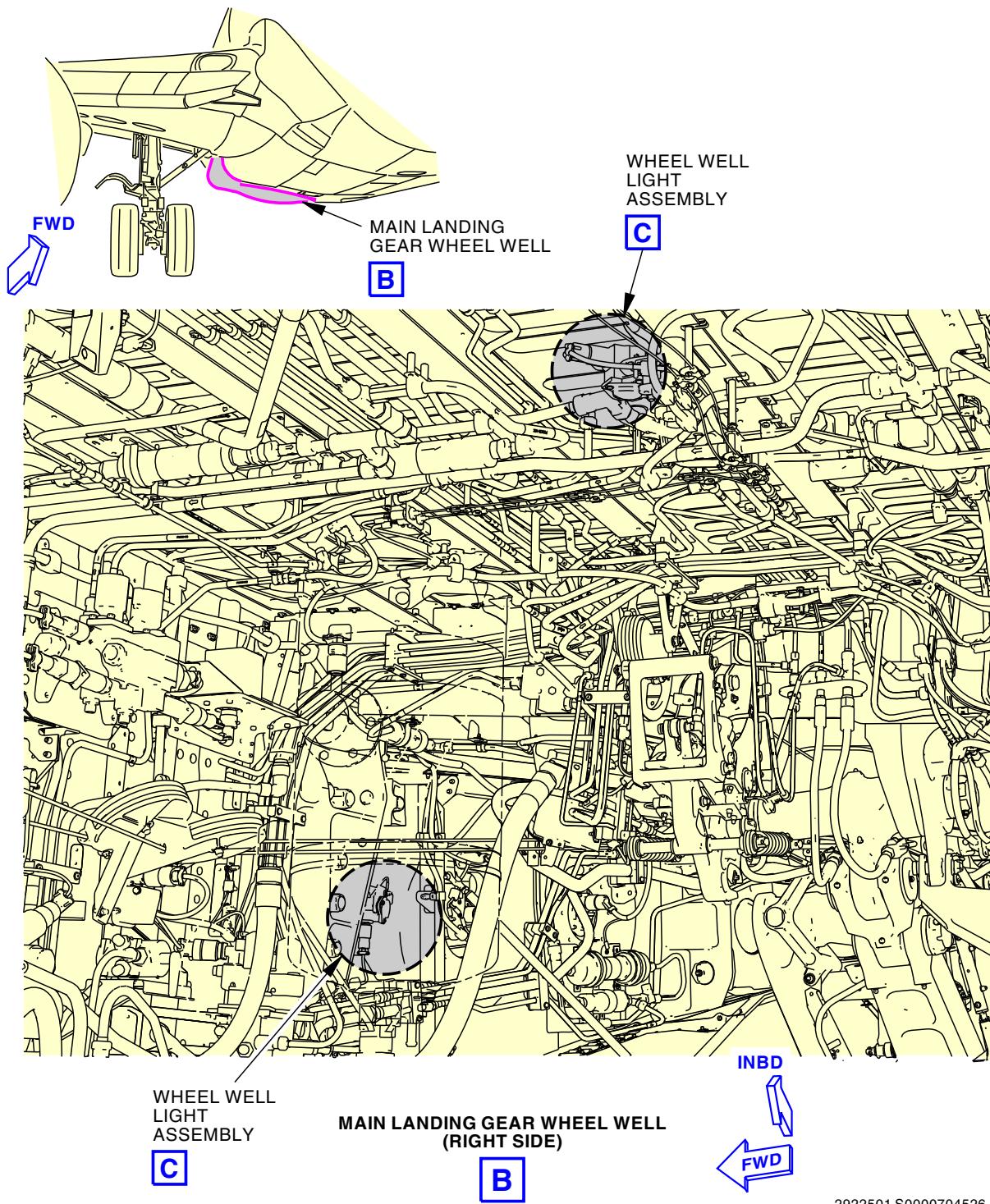
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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AIRCRAFT MAINTENANCE MANUAL



2922501 S0000704526\_V2

Main Wheel Well Light Assembly - Installation  
Figure 207/33-32-00-990-810 (Sheet 2 of 3)

EFFECTIVITY  
LOM 460-999

**33-32-00**

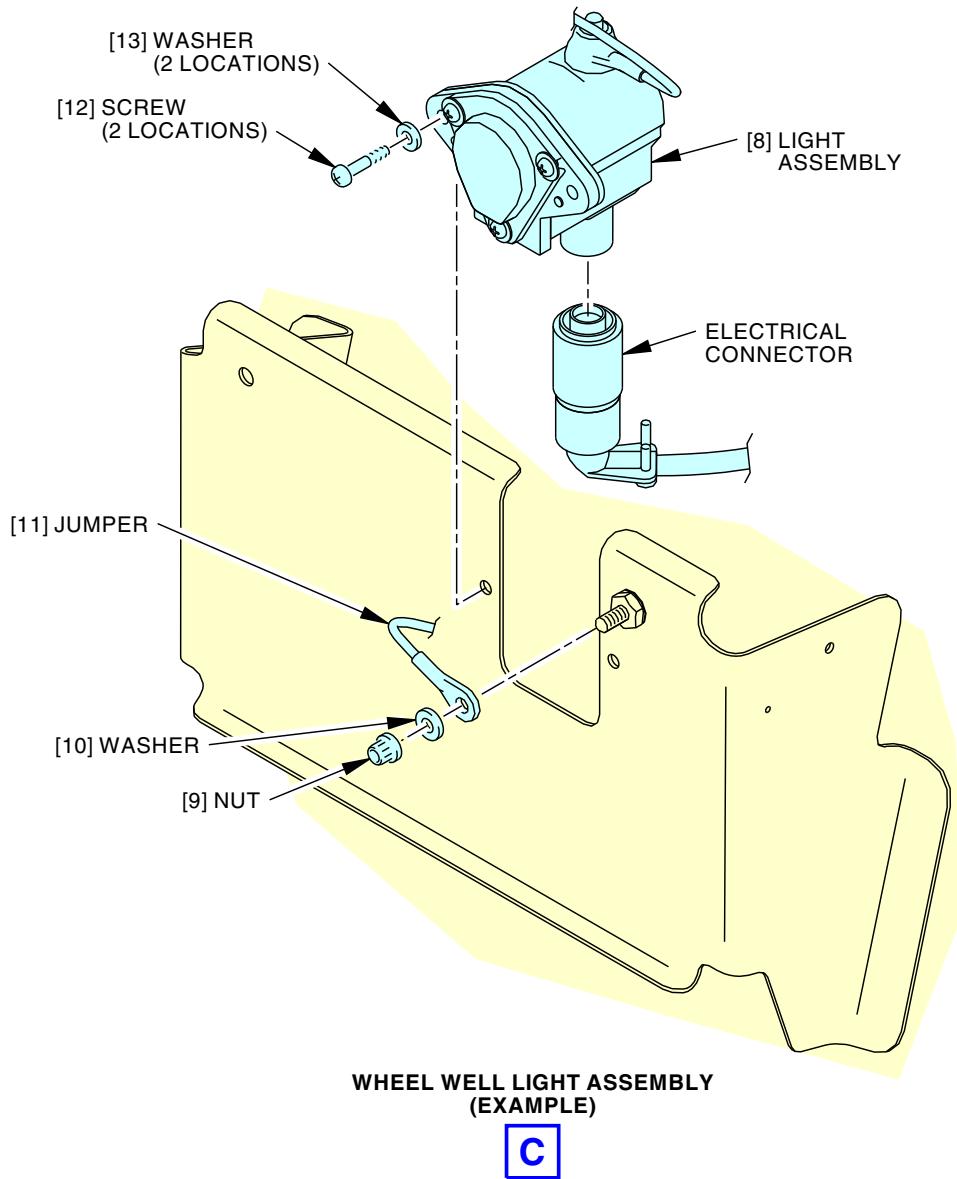
D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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AIRCRAFT MAINTENANCE MANUAL



2904142 S0000694289\_V2

Main Wheel Well Light Assembly - Installation  
Figure 207/33-32-00-990-810 (Sheet 3 of 3)

EFFECTIVITY  
LOM 460-999

**33-32-00**

D633A101-LOM

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**TASK 33-32-00-400-801**

**6. Wheel Well Light Assembly - Installation**

(Figure 204 or Figure 205, Figure 206 or Figure 207)

**A. General**

- (1) This task includes the steps to install the wheel well light assembly.

**B. References**

Reference	Title
SWPM 20-20-00	ELECTRICAL BONDING PROCESSES
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
A50231	Sealant - Pressure And Environmental - Chromate Type	BMS5-95 Class B
B00184	Solvent - Presealing, Cleaning Solvent	BMS11-7
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	AMS3819 Class 1 Grade A or B Form 1 (Supersede BMS15-5 CL A)

**E. Location Zones**

Zone	Area
115	Nose Landing Gear Wheel Well - Left
116	Nose Landing Gear Wheel Well - Right
118	Electrical and Electronics Compartment - Right
133	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Left
134	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Right

**F. Access Panels**

Number	Name/Location
117A	Electronic Equipment Access Door

EFFECTIVITY  
LOM ALL

**33-32-00**



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**G. Prepare for the Installation**

SUBTASK 33-32-00-010-003

- (1) To get access to the P92 panel, open this access panel:

**Number      Name/Location**

117A      Electronic Equipment Access Door

SUBTASK 33-32-00-860-012

**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.

**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 open and has safety tag:

**Power Distribution Panel Number 2, P92**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
C	2	C00125	WHEEL WELL LT

**H. Wheel Well Light Assembly Installation**

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459**

SUBTASK 33-32-00-420-001

- (1) Do these steps to install the light assembly [3]:

- Install the light assembly [3] to the right position on the support bracket.
- Install the screws [1] and washers [2] to secure the light assembly [3].
  - Tighten the screws [1] not to exceed 15 in-lb (2 N·m).
- Connect the wires to the light assembly [3]

SUBTASK 33-32-00-420-002

- (2) Do these steps to install the light assembly [4]:

- Install the light assembly [4] to the right position on the bracket.
- Install the screws [5], washers [6], and clip nuts [7].
- Connect the wire to the light assembly [4].

**LOM 460-999**

SUBTASK 33-32-00-420-003

- (3) Do these steps to install the light assembly:

- Put the light assembly [8] in its position.
- Install the screws [12] and washers [13].

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LOM ALL

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**LOM 460-999 (Continued)**

- (c) Use a cotton wiper, G00034, with solvent, B00184, to clean the surfaces of the nut [9], washer [10], and jumper [11] (SWPM 20-20-00).
- (d) Apply sealant, A50110 (or sealant, A50231), to the contacts of the nut [9], washer [10], and jumper [11].
- (e) Install the nut [9], washer [10], and jumper [11].
  - 1) Tighten the nut [9] to 28 in-lb (3.2 N·m) - 35 in-lb (4.0 N·m).
- (f) Measure the bonding resistance between the jumper [11] and structure (SWPM 20-20-00).
  - 1) Use a non-intrinsically safe bonding meter, COM-614.
  - 2) Make sure that the electrical bonding resistance is 0.0010 ohms (1.0 millionohms) or less.
- (g) Connect the electrical connector to the light assembly [8].

**LOM ALL**

**I. Wheel Well Light Assembly Installation Test**

SUBTASK 33-32-00-860-013

- (1) Do this task: Wheel Well Lights - Activation, TASK 33-32-00-440-801.

SUBTASK 33-32-00-710-004

- (2) Do a test of the new light assembly:
  - (a) Set the switch for the light to the ON mode.
    - 1) Make sure that the lamp comes on.
  - (b) Set the switch to the OFF mode.
    - 1) Make sure that the lamp goes off.

———— END OF TASK ————

**TASK 33-32-00-710-801**

**7. Wheel Well Lights - Operational Test**

**A. References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)

**B. Location Zones**

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

**C. Procedure**

SUBTASK 33-32-00-860-004

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

SUBTASK 33-32-00-710-002

- (2) Do a test of the NLG and MLG wheel well lights:
  - (a) At the overhead panel, P5, set the switch for the wheel well lights to the on mode.





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- 1) Make sure the light in the NLG comes on.
  - 2) Make sure the lights in the MLG come on.
- (b) Set the switch to the off mode.
- 1) Make sure the light in the NLG goes off.
  - 2) Make sure the lights in the MLG go off.

SUBTASK 33-32-00-860-005

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

———— END OF TASK ————

EFFECTIVITY  
LOM ALL

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AIR CONDITIONING COMPARTMENT LIGHTS - MAINTENANCE PRACTICES

**1. General**

- A. This procedure has these tasks:
- (1) Air Conditioning Compartment Lights Deactivation.
  - (2) Air Conditioning Compartment Lights Activation.
  - (3) Air Conditioning Compartment Light Lamp Replacement.

**TASK 33-33-00-040-801**

**2. Air Conditioning Compartment Lights - Deactivation**

(Figure 201)

**A. General**

- (1) This procedure removes electrical power to the air conditioning compartment lights.  
**NOTE:** The air conditioning compartment is also referred to as the Environmental Control System (ECS) bay.

**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)

**C. Location Zones**

Zone	Area
118	Electrical and Electronics Compartment - Right
131	Center Section Wing Box, Body Station 540.00 to Body Station 663.75 - Left
132	Center Section Wing Box, Body Station 540.00 to Body Station 663.75 - Right

**D. Access Panels**

Number	Name/Location
117A	Electronic Equipment Access Door
192CL	ECS Access Door
192CR	ECS Access Door
192DR	ECS High Pressure Access Door
192JL	Air Conditioning Panel - Aft
192JR	Air Conditioning Panel - Aft

**E. Prepare for the Deactivation**

SUBTASK 33-33-00-010-004

- (1) Open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door



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SUBTASK 33-33-00-860-004



**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.

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

**Power Distribution Panel Number 2, P92**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	3	C00126	AIR COND COMPT LT

SUBTASK 33-33-00-010-005

- (3) Open this access panel:

<u>Number</u>	<u>Name/Location</u>
192CL	ECS Access Door

SUBTASK 33-33-00-010-009



**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.

- (4) Do these steps (TASK 06-41-00-800-801):

- (a) Open this access panel:

<u>Number</u>	<u>Name/Location</u>
192DR	ECS High Pressure Access Door

- (b) Open this access panel:

<u>Number</u>	<u>Name/Location</u>
192CR	ECS Access Door

SUBTASK 33-33-00-010-006

- (5) Open these access panels:

<u>Number</u>	<u>Name/Location</u>
192JL	Air Conditioning Panel - Aft
192JR	Air Conditioning Panel - Aft

**F. Air Conditioning Compartment Lights Tryout**

NOTE: This tryout is to make sure the Air Conditioning Compartment Lights are in a zero energy stage.

EFFECTIVITY  
LOM ALL

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SUBTASK 33-33-00-860-005



**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.

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

**Power Distribution Panel Number 2, P92**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	3	C00126	AIR COND COMPT LT

SUBTASK 33-33-00-410-003

- (2) Close this access panel:

**Number      Name/Location**

117A      Electronic Equipment Access Door

SUBTASK 33-33-00-700-001

- (3) Do the following steps for the Air Conditioning Compartment Lights:

- (a) At the forward end of each ECS bay, set the light switch to the ON mode.
  - 1) Make sure none of the left air conditioning compartment lights come on.
  - 2) Make sure none of the right air conditioning compartment lights come on.

SUBTASK 33-33-00-410-005

- (4) Close these access panels:

**Number      Name/Location**

192JL      Air Conditioning Panel - Aft  
192JR      Air Conditioning Panel - Aft

SUBTASK 33-33-00-410-006

- (5) Close these access doors to the ECS bay (TASK 06-41-00-800-801):

- (a) Close this access panel:

**Number      Name/Location**

192CL      ECS Access Door

- (b) Close this access panel:

**Number      Name/Location**

192CR      ECS Access Door

EFFECTIVITY

LOM ALL

**33-33-00**



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(c) Close this access panel:

**Number      Name/Location**

192DR      ECS High Pressure Access Door

**NOTE:** The ECS high pressure access door, 192DR, will not latch in its position if the ECS access door, 192CR, is not closed.

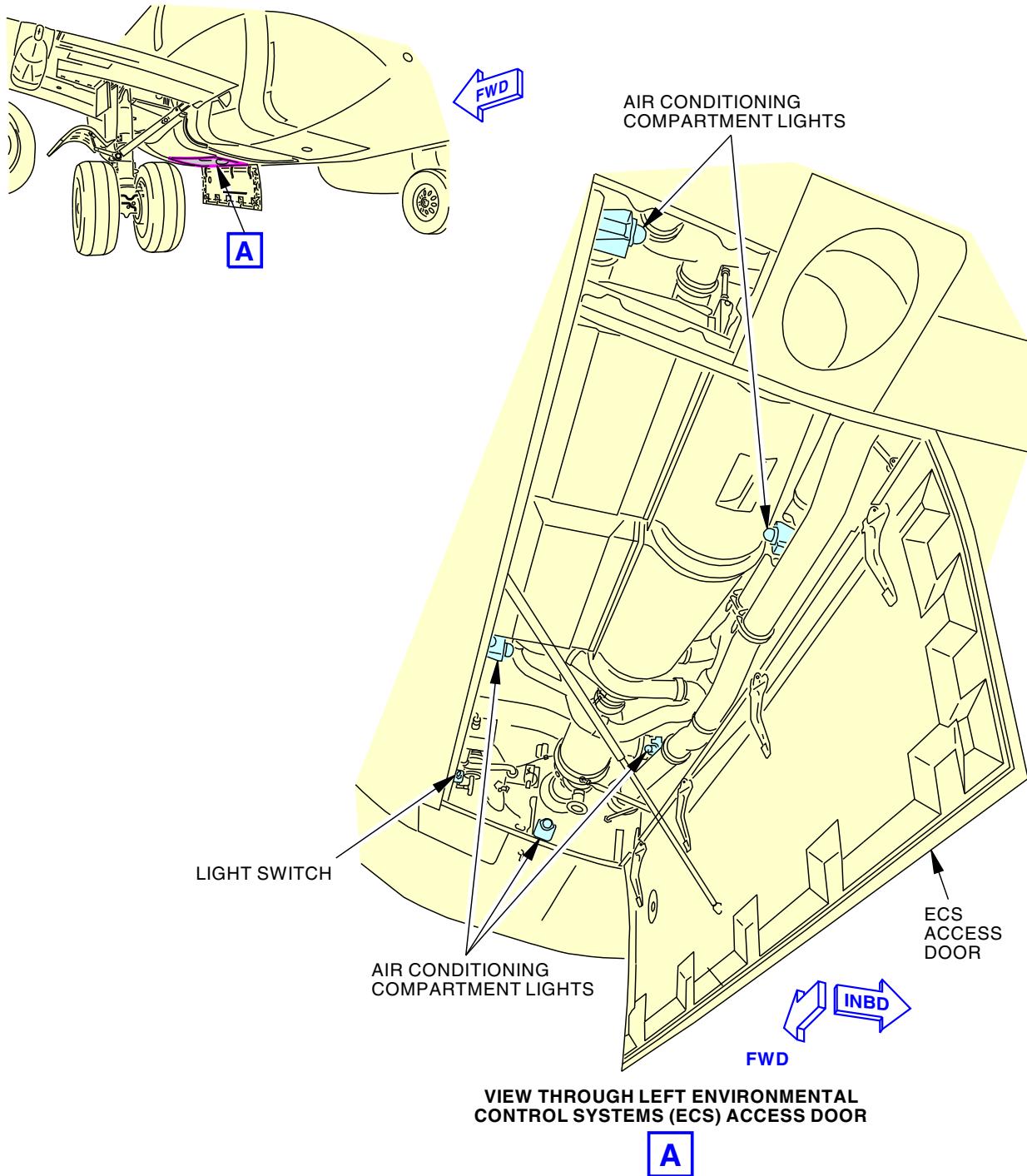
———— END OF TASK ————

— EFFECTIVITY —  
**LOM ALL**

**33-33-00**



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2383217 S0000544021\_V1

Air Conditioning Compartment Lights  
Figure 201/33-33-00-990-802 (Sheet 1 of 2)

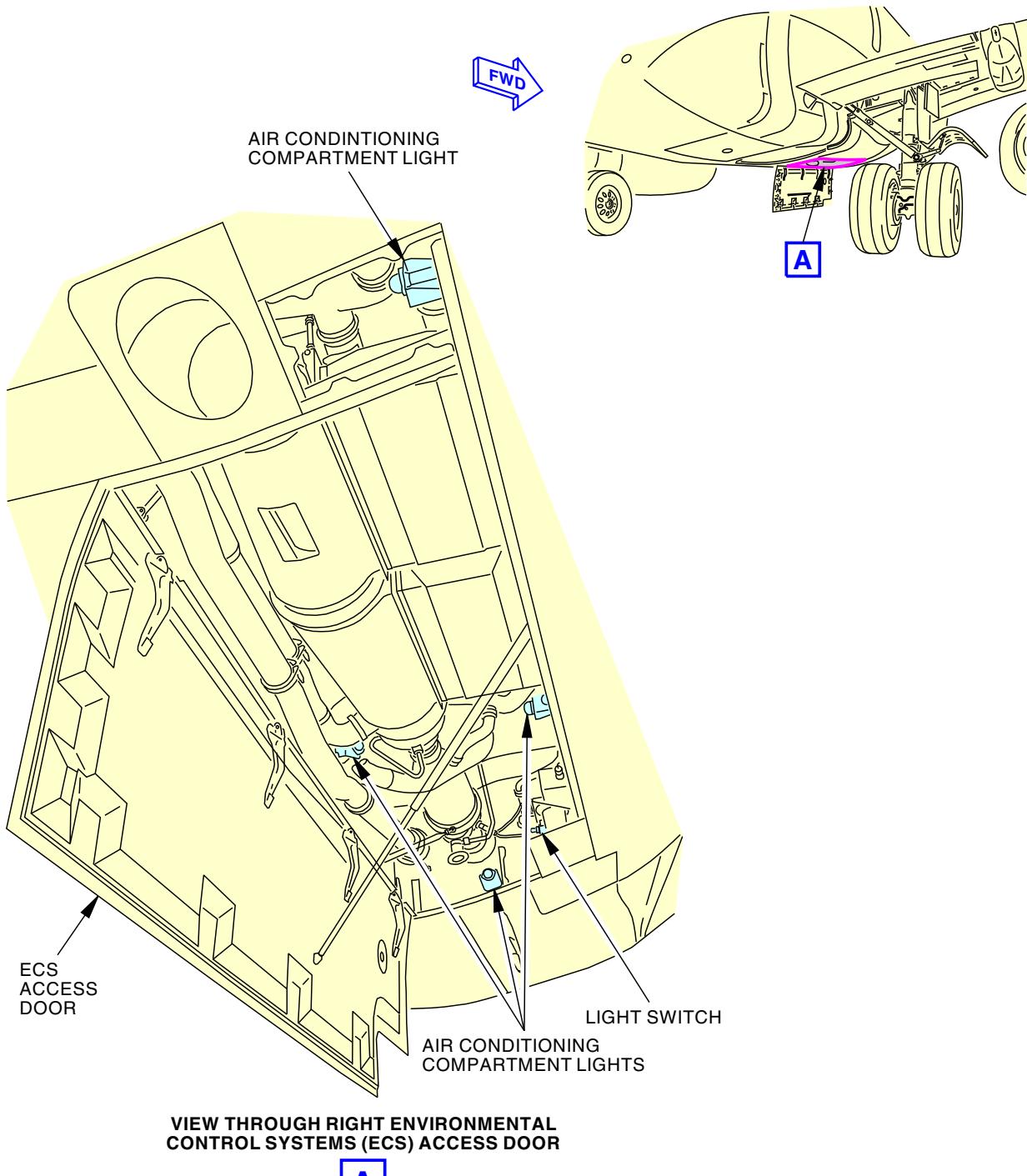
EFFECTIVITY  
LOM ALL

**33-33-00**

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2383240 S0000544025\_V2

**Air Conditioning Compartment Lights**  
Figure 201/33-33-00-990-802 (Sheet 2 of 2)

EFFECTIVITY  
LOM ALL

**33-33-00**

D633A101-LOM

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TASK 33-33-00-440-801

3. **Air Conditioning Compartment Lights - Activation**

(Figure 201)

**A. General**

- (1) This procedure adds electrical power to the air conditioning compartment lights.

**B. Location Zones**

<b>Zone</b>	<b>Area</b>
118	Electrical and Electronics Compartment - Right
131	Center Section Wing Box, Body Station 540.00 to Body Station 663.75 - Left
132	Center Section Wing Box, Body Station 540.00 to Body Station 663.75 - Right

**C. Access Panels**

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

**D. Prepare for the Activation**

SUBTASK 33-33-00-010-007

- (1) To get access to the P92 panel, open this access panel:

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

SUBTASK 33-33-00-860-006



**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) Remove the safety tag and close this circuit breaker:

**Power Distribution Panel Number 2, P92**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
C	3	C00126	AIR COND COMPT LT

SUBTASK 33-33-00-410-002

- (3) Close this access panel:

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

— END OF TASK —

EFFECTIVITY  
LOM ALL

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**TASK 33-33-00-960-801**

**4. Air Conditioning Compartment Light - Lamp Replacement**

(Figure 202)

**A. General**

- (1) The air conditioning compartment is also referred to as the Environmental Control System (ECS) bay.

**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)
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
WDM 33-33-11	Wiring Diagram Manual

**C. Tools/Equipment**

Reference	Description
STD-6972	Milliohmometer - 0.0 to 0.1 Ohm Range

**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

**E. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Lamp	33-30-51-50A-025	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459
2	Gasket	33-30-51-50A-020	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459

**F. Location Zones**

Zone	Area
118	Electrical and Electronics Compartment - Right
131	Center Section Wing Box, Body Station 540.00 to Body Station 663.75 - Left
132	Center Section Wing Box, Body Station 540.00 to Body Station 663.75 - Right

**G. Access Panels**

Number	Name/Location
117A	Electronic Equipment Access Door
192CL	ECS Access Door
192CR	ECS Access Door



**33-33-00**



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(Continued)

<u>Number</u>	<u>Name/Location</u>
192DR	ECS High Pressure Access Door
192JL	Air Conditioning Panel - Aft
192JR	Air Conditioning Panel - Aft

## H. Air Conditioning Compartment Light Lamp Replacement

SUBTASK 33-33-00-010-001

- (1) Open the access door to the left ECS bay (TASK 06-41-00-800-801):

- (a) Open this access panel:

<u>Number</u>	<u>Name/Location</u>
192CL	ECS Access Door

SUBTASK 33-33-00-010-010



**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) Open the access doors to the right ECS bay (TASK 06-41-00-800-801):

- (a) Open this access panel:

<u>Number</u>	<u>Name/Location</u>
192DR	ECS High Pressure Access Door

- (b) Open this access panel:

<u>Number</u>	<u>Name/Location</u>
192CR	ECS Access Door

SUBTASK 33-33-00-010-002

- (3) If the light assembly is installed aft of the ECS access doors, open the applicable access panel:

Open these access panels:

<u>Number</u>	<u>Name/Location</u>
192JL	Air Conditioning Panel - Aft
192JR	Air Conditioning Panel - Aft

SUBTASK 33-33-00-010-008

- (4) To get access to the P92 panel, open this access panel:

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

SUBTASK 33-33-00-860-008



**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

**33-33-00**



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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.

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

**Power Distribution Panel Number 2, P92**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	3	C00126	AIR COND COMPT LT

SUBTASK 33-33-00-860-001

- (6) On the forward end of the ECS bay, set the switch for the light to the off mode (WDM 33-33-11).

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459**

SUBTASK 33-33-00-960-001

- (7) Do these steps to replace the lamp:
- Loosen the fasteners [4].
  - Remove the lens assembly [3].
  - Replace the lamp [1].
  - Install the lens assembly [3].
    - Check the gasket [2].
    - If the gasket [2] is damaged, replace it.
  - Tighten the fasteners [4].

**LOM 460-999**

SUBTASK 33-33-00-960-002

- (8) Do these steps to replace the lens assembly [5]:
- Remove the nut [7], washer [8], and jumper cable [10] from the stud on the mounting bracket.
  - Remove the screws [9] and washers [6] from the lens assembly [5].
  - Remove the lens assembly [5] from the mounting bracket.
  - Disconnect the electrical connector [11] from the lens assembly [5].
  - Connect the electrical connector [11] to the new lens assembly [5].
  - Install the lens assembly [5] to the mounting bracket with the washers [6] and screws [9].
  - Install the jumper cable [10] to the mounting bracket as follows:
    - Apply a bead of sealant, A50110, to the contact surfaces of the stud, terminal of jumper cable [10], washer [8], and nut [7].  
NOTE: The sealant, A50155, sealant, A50231, and sealant, A50296, are equivalent alternatives for the sealant, A50110.
    - Install the jumper cable [10], washer [8], and nut [7] to the stud.
      - Tighten the nut [7].

EFFECTIVITY  
LOM ALL

**33-33-00**



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AIRCRAFT MAINTENANCE MANUAL

LOM 460-999 (Continued)

- 3) Make sure that there is a continuous squeeze-out of sealant around the stud, terminal of jumper cable [10], washer [8], and nut [7].
  - a) If necessary, add more sealant around the contact surfaces.
- (h) Measure the resistance between the terminal of jumper cable [10] and mounting bracket with a milliohmometer, STD-6972.
  - 1) Make sure that the resistance is not more than 1.0 milliohms.

LOM ALL

SUBTASK 33-33-00-860-002

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

SUBTASK 33-33-00-860-007

 <b>WARNING</b>	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.
 <b>WARNING</b>	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 2, P92**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	3	C00126	AIR COND COMPT LT

SUBTASK 33-33-00-410-004

- (11) Close this access panel:

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

SUBTASK 33-33-00-710-001

- (12) Do a test of the new lamp:

- (a) On the forward end of the ECS bay, set the switch for the light to the ON mode.
  - 1) Make sure the lamp comes on.
- (b) Set the switch to the OFF mode.
  - 1) Make sure the lamp goes off.

SUBTASK 33-33-00-410-001

- (13) Close these access doors to the ECS bay (TASK 06-41-00-800-801):

EFFECTIVITY  
LOM ALL

**33-33-00**



**737-600/700/800/900**  
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- (a) Close this access panel:

<u>Number</u>	<u>Name/Location</u>
192CL	ECS Access Door

- (b) Close this access panel:

<u>Number</u>	<u>Name/Location</u>
192CR	ECS Access Door

- (c) Close this access panel:

<u>Number</u>	<u>Name/Location</u>
192DR	ECS High Pressure Access Door

NOTE: The ECS high pressure access door, 192DR, will not latch in its position if the ECS access door, 192CR, is not closed.

SUBTASK 33-33-00-010-003

- (14) Close the access panel, if opened:

<u>Number</u>	<u>Name/Location</u>
192JL	Air Conditioning Panel - Aft
192JR	Air Conditioning Panel - Aft

SUBTASK 33-33-00-860-003

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

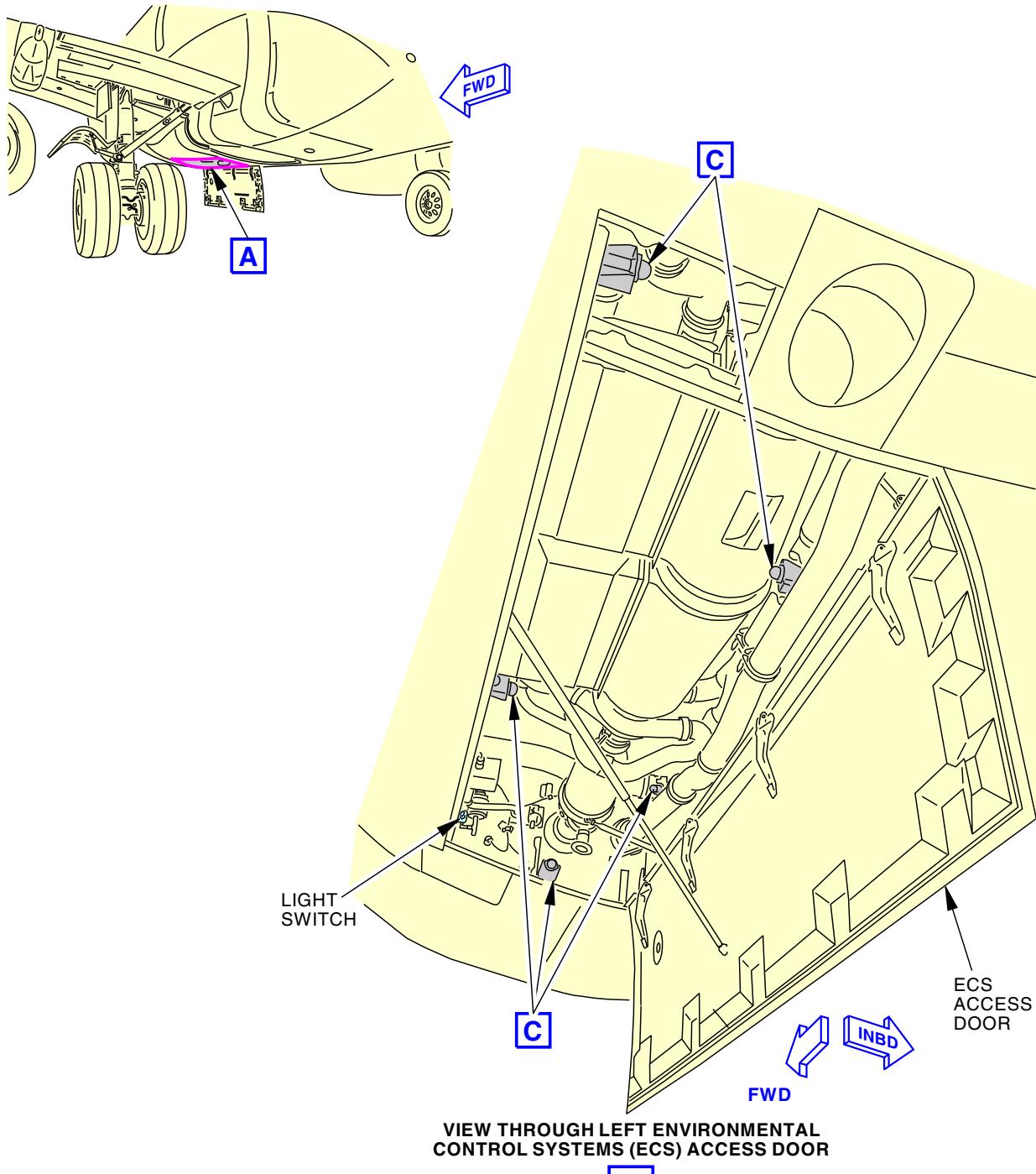
———— END OF TASK ————

— EFFECTIVITY —  
LOM ALL

**33-33-00**



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AIRCRAFT MAINTENANCE MANUAL



F45484 S0006576113\_V2

Air Conditioning Compartment Light - Lamp Replacement  
Figure 202/33-33-00-990-801 (Sheet 1 of 4)

EFFECTIVITY  
LOM ALL

**33-33-00**

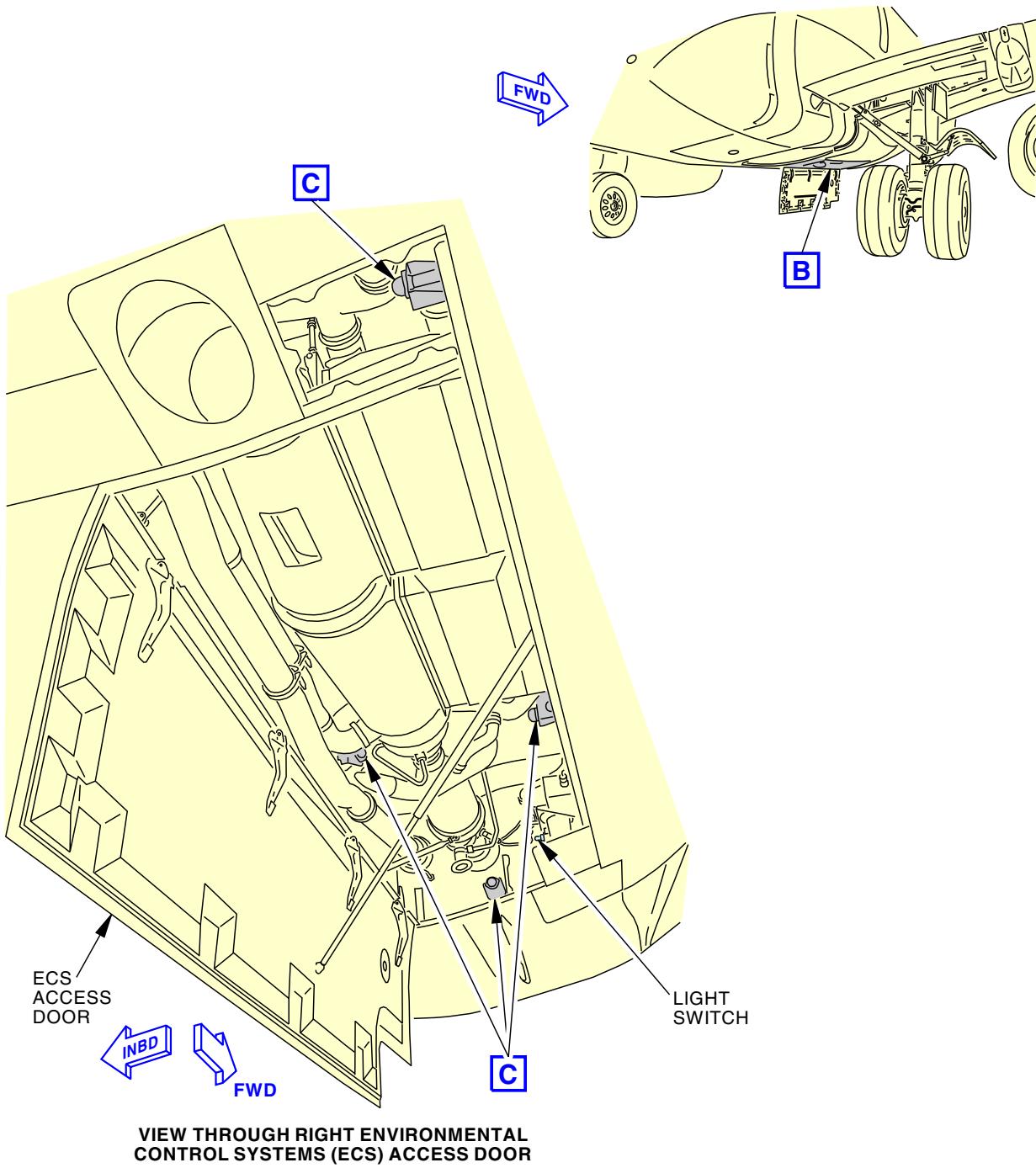
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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VIEW THROUGH RIGHT ENVIRONMENTAL  
CONTROL SYSTEMS (ECS) ACCESS DOOR

F49041 S0006576114\_V2

Air Conditioning Compartment Light - Lamp Replacement  
Figure 202/33-33-00-990-801 (Sheet 2 of 4)

EFFECTIVITY  
LOM ALL

**33-33-00**

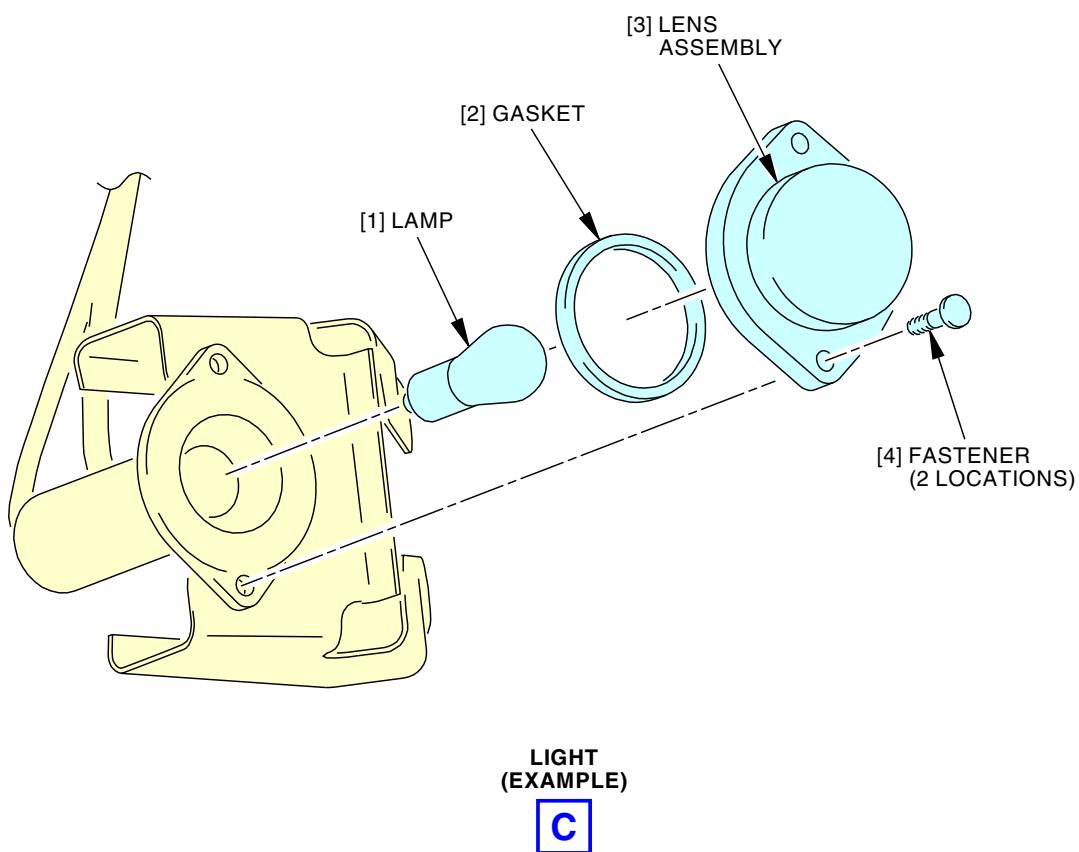
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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AIRCRAFT MAINTENANCE MANUAL



F49374 S0006576115\_V2

Air Conditioning Compartment Light - Lamp Replacement  
Figure 202/33-33-00-990-801 (Sheet 3 of 4)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-459

**33-33-00**

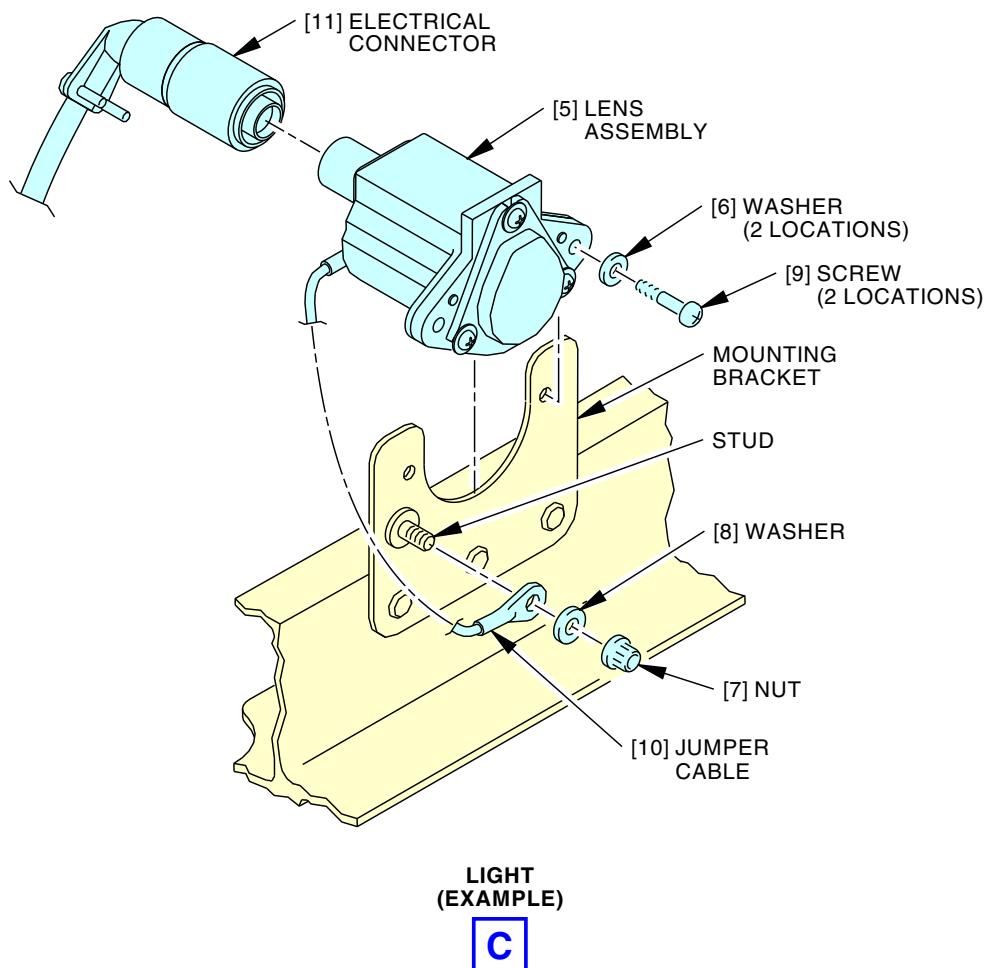
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2408842 S0000557481\_V2

Air Conditioning Compartment Light - Lamp Replacement  
Figure 202/33-33-00-990-801 (Sheet 4 of 4)

EFFECTIVITY  
LOM 460-999

**33-33-00**

D633A101-LOM

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ELECTRONIC EQUIPMENT COMPARTMENT LIGHTS - MAINTENANCE PRACTICES

**1. General**

- A. This procedure has these tasks:
- (1) Electronic Equipment Compartment Lights Deactivation.
  - (2) Electronic Equipment Compartment Lights Activation.

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459**

- (3) Electronic Equipment Compartment Light Lamp Replacement.

**LOM 460-999**

- (4) Electronic Equipment Compartment LED Light Assembly Replacement.

**LOM ALL**

**TASK 33-34-00-040-801**

**2. Electronic Equipment Compartment Lights - Deactivation**

(Figure 201)

**A. General**

- (1) This procedure removes electrical power to the electronic equipment compartment lights.

**B. Location Zones**

Zone	Area
112	Area Forward of Nose Landing Gear Wheel Well
117	Electrical and Electronics Compartment - Left
118	Electrical and Electronics Compartment - Right

**C. Access Panels**

Number	Name/Location
112A	Forward Access Door
117A	Electronic Equipment Access Door

**D. Electronic Equipment Compartment Lights Deactivation**

SUBTASK 33-34-00-010-003

- (1) Open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 33-34-00-860-004



**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.

EFFECTIVITY  
**LOM ALL**

**33-34-00**



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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.

- (2) 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	2	C00139	ELEC RACK LT-FWD

SUBTASK 33-34-00-010-004

- (3) Open this access panel:

Number      Name/Location

112A	Forward Access Door
------	---------------------

**E. Electronic Equipment Compartment Lights - Tryout**

NOTE: This tryout is to make sure the Electronic Equipment Compartment Lights are in a zero energy stage.

SUBTASK 33-34-00-860-005



**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.

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

**Power Distribution Panel Number 1, P91**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	2	C00139	ELEC RACK LT-FWD

SUBTASK 33-34-00-700-001

- (2) Do the following steps for the Electronic Equipment Compartment Lights:

- (a) At the forward access door, set the light switch to the ON mode.

1) Make sure that none of the forward equipment compartment lights come on.

- (b) At the electronic equipment compartment service panel, set the light switch to the ON mode.

1) Make sure that none of the electronic equipment compartment lights come on.

EFFECTIVITY  
LOM ALL

**33-34-00**



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SUBTASK 33-34-00-410-004

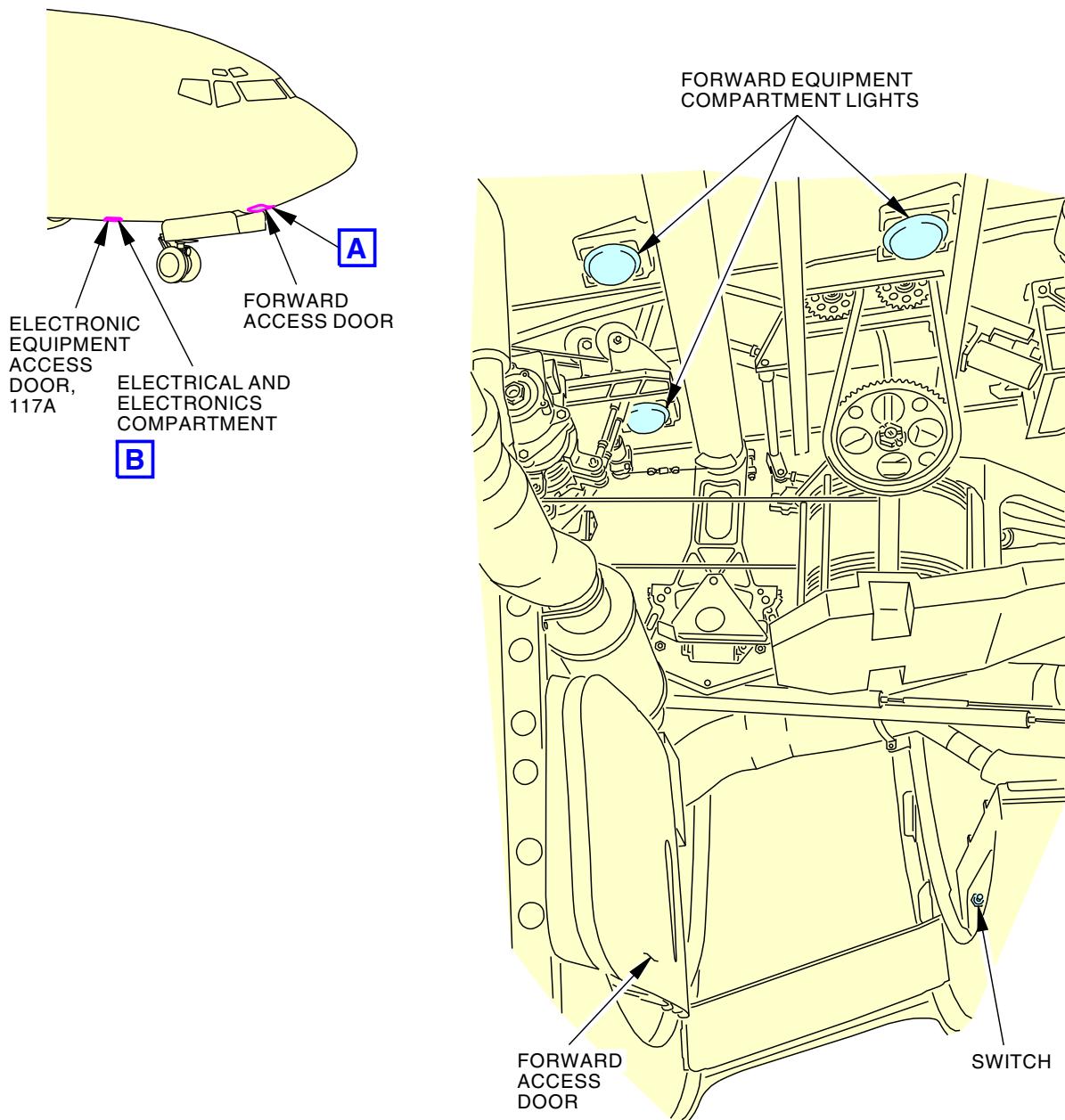
- (3) Close these access panels:

<u>Number</u>	<u>Name/Location</u>
112A	Forward Access Door
117A	Electronic Equipment Access Door

———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-34-00**



VIEW IN THE UP AND OUTBOARD DIRECTION  
THROUGH FORWARD ACCESS DOOR

A

2383253 S0000544096\_V1

**Electronic Equipment Compartment Lights**  
Figure 201/33-34-00-990-802 (Sheet 1 of 2)

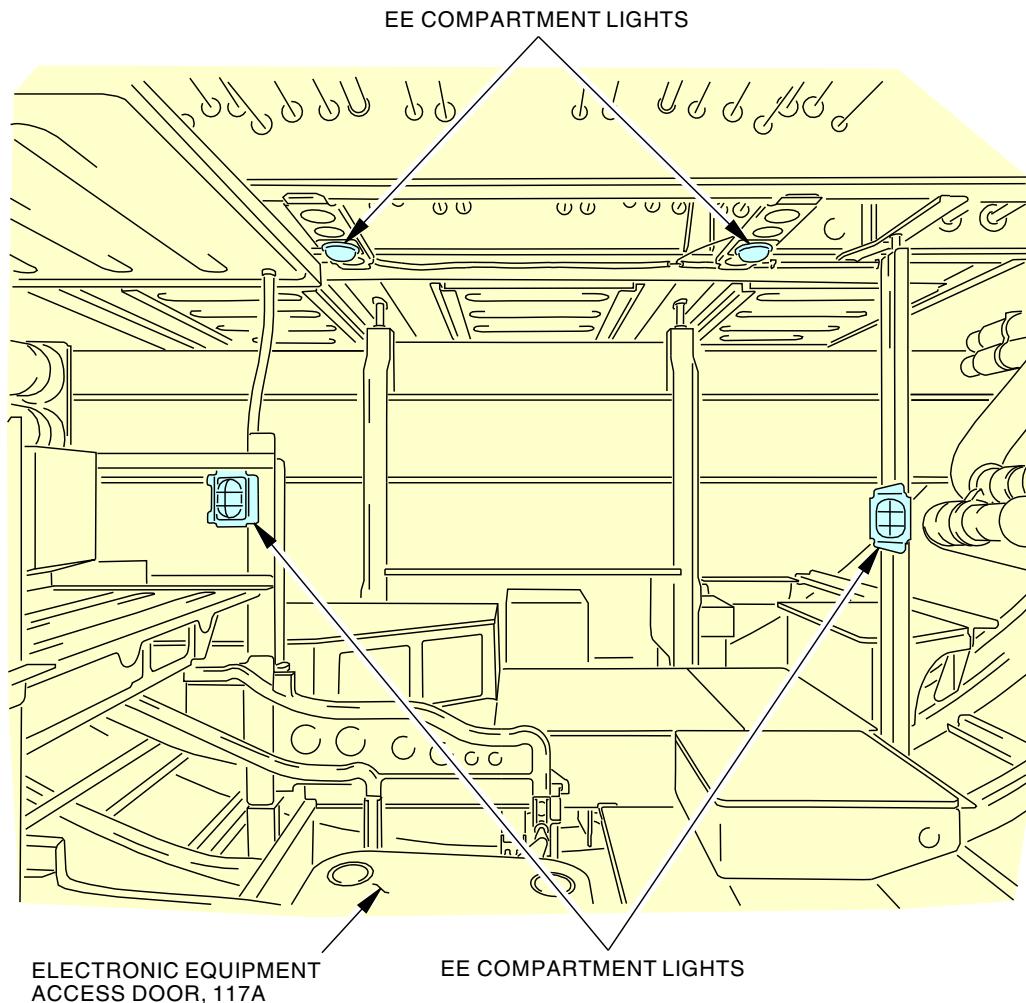
EFFECTIVITY  
LOM ALL

**33-34-00**

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ELECTRICAL AND ELECTRONICS COMPARTMENT

B

2383275 S0000544098\_V1

**Electronic Equipment Compartment Lights**  
Figure 201/33-34-00-990-802 (Sheet 2 of 2)

EFFECTIVITY  
LOM ALL

**33-34-00**

D633A101-LOM

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TASK 33-34-00-440-801

3. **Electronic Equipment Compartment Lights - Activation**

(Figure 201)

A. **General**

- (1) This procedure adds electrical power to the electronic equipment compartment lights.

B. **Location Zones**

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

C. **Access Panels**

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

D. **Electronic Equipment Compartment Lights Activation**

SUBTASK 33-34-00-010-007

- (1) Open this access panel:

**Number      Name/Location**

117A      Electronic Equipment Access Door

SUBTASK 33-34-00-860-006



**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) Remove the safety tag and close this circuit breaker:

**Power Distribution Panel Number 1, P91**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
C	2	C00139	ELEC RACK LT-FWD

SUBTASK 33-34-00-410-002

- (3) Close this access panel:

**Number      Name/Location**

117A      Electronic Equipment Access Door

— END OF TASK —

EFFECTIVITY  
LOM ALL

**33-34-00**



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**AIRCRAFT MAINTENANCE MANUAL**

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459**

**TASK 33-34-00-960-801**

**4. Electronic Equipment Compartment Light - Lamp Replacement**

(Figure 202)

**A. References**

<b>Reference</b>	<b>Title</b>
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
WDM 33-34-11	Wiring Diagram Manual

**B. Expendables/Parts**

<b>AMM Item</b>	<b>Description</b>	<b>AIPC Reference</b>	<b>AIPC Effectivity</b>
6	Lamp	33-34-00-01A-050	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459

**C. Location Zones**

<b>Zone</b>	<b>Area</b>
112	Area Forward of Nose Landing Gear Wheel Well
118	Electrical and Electronics Compartment - Right

**D. Access Panels**

<b>Number</b>	<b>Name/Location</b>
112A	Forward Access Door
117A	Electronic Equipment Access Door

**E. Procedure**

**SUBTASK 33-34-00-010-001**

- (1) For access to the area forward of the nose landing gear wheel well, do this step:

- (a) Open this access panel:

<b>Number</b>	<b>Name/Location</b>
112A	Forward Access Door

**SUBTASK 33-34-00-010-002**

- (2) For access to the area outboard and above the nose landing gear wheel well and to the main equipment center, do this step:

- (a) Open this access panel:

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

**SUBTASK 33-34-00-860-001**

- (3) At the access door, set the switch for the light to the off mode (WDM 33-34-11).

**SUBTASK 33-34-00-960-003**

- (4) Do these steps to replace the lamp [2]:

- Pull the bail [3] to a position parallel with the light beam.
- Turn counterclockwise to unlock lens assembly [1].
- Pull the lens assembly [1] from the housing assembly [4].

EFFECTIVITY  
LOM ALL

**33-34-00**



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

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459 (Continued)**

- (d) Replace the lamp [2] in the lampholder.
- (e) Install the lens assembly [1] into the housing assembly [4].
- (f) Turn the bail [3] and the lens assembly [1] clockwise to lock.

SUBTASK 33-34-00-960-001

- (5) Do these steps to replace the lamp [6]:
  - (a) Loosen the fasteners [7].
  - (b) Remove the lens assembly [5].
  - (c) Replace the lamp [6].
  - (d) Install the lens assembly [5].
  - (e) Tighten fasteners [7].

SUBTASK 33-34-00-860-002

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

SUBTASK 33-34-00-710-001

- (7) Do this test of the new lamp:
  - (a) At the access door, set the switch for the light to the on mode.
    - 1) Make sure the lamp comes on.
  - (b) Set the switch to the off mode.
    - 1) Make sure the lamp goes off.

SUBTASK 33-34-00-410-001

- (8) Close these access panels:

**Number      Name/Location**

112A	Forward Access Door
117A	Electronic Equipment Access Door

SUBTASK 33-34-00-860-003

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

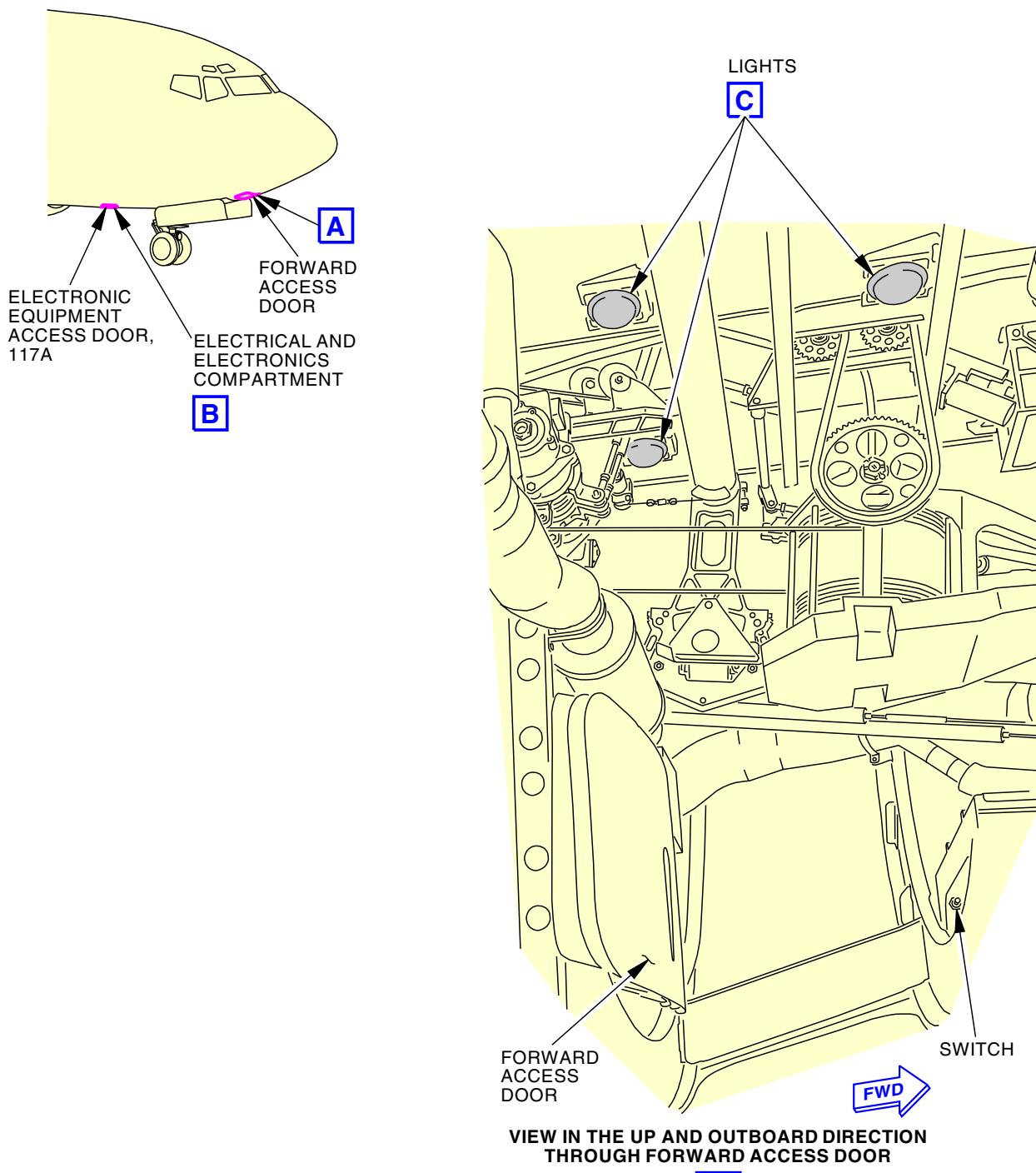
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EFFECTIVITY  
**LOM ALL**

**33-34-00**



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AIRCRAFT MAINTENANCE MANUAL



F45486 S0006576120\_V2

**Electronic Equipment Compartment Light - Lamp Replacement**  
Figure 202/33-34-00-990-801 (Sheet 1 of 3)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-459

**33-34-00**

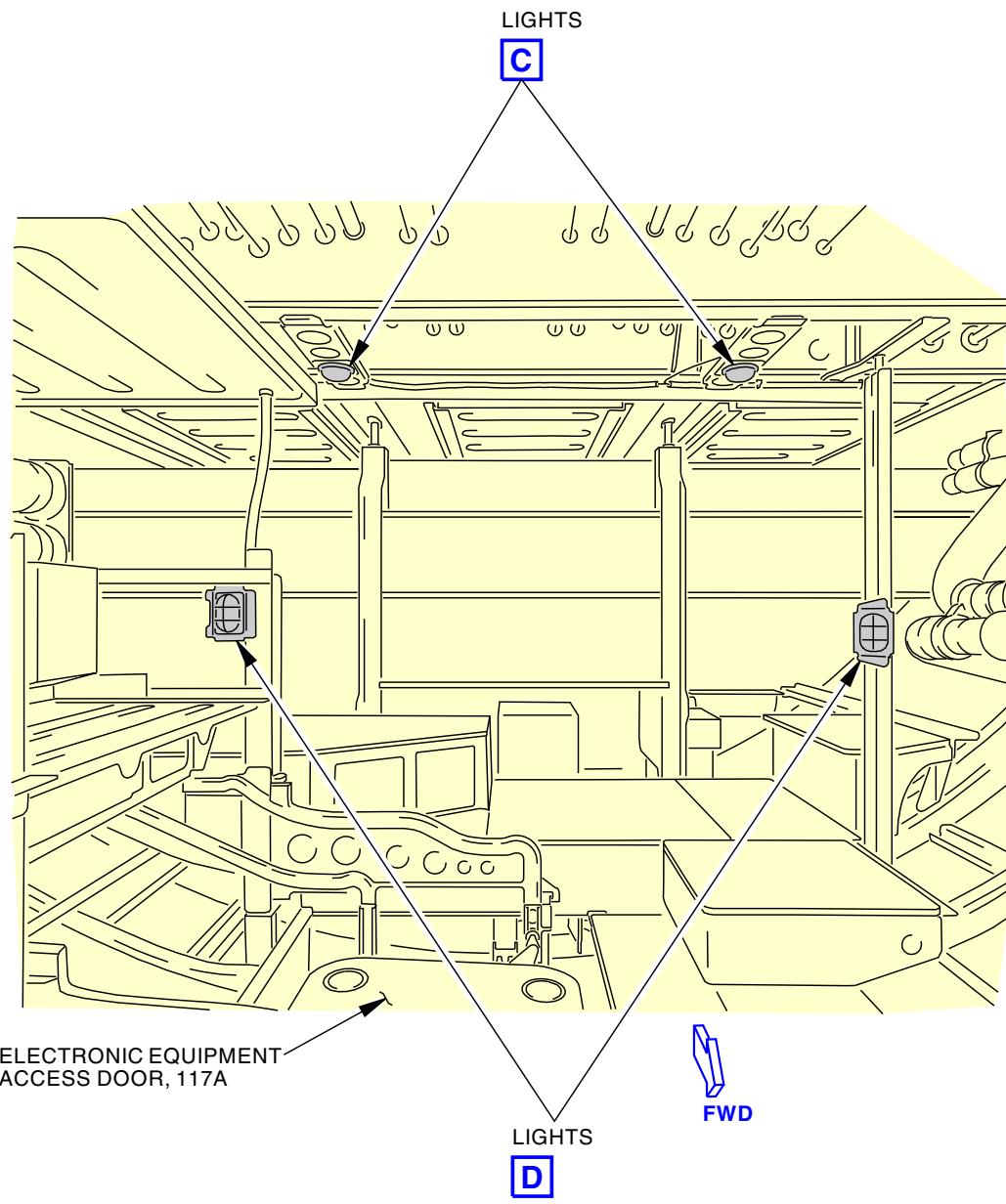
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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ELECTRICAL AND ELECTRONICS COMPARTMENT

**B**

F52192 S0006576121\_V2

**Electronic Equipment Compartment Light - Lamp Replacement**  
Figure 202/33-34-00-990-801 (Sheet 2 of 3)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-459

**33-34-00**

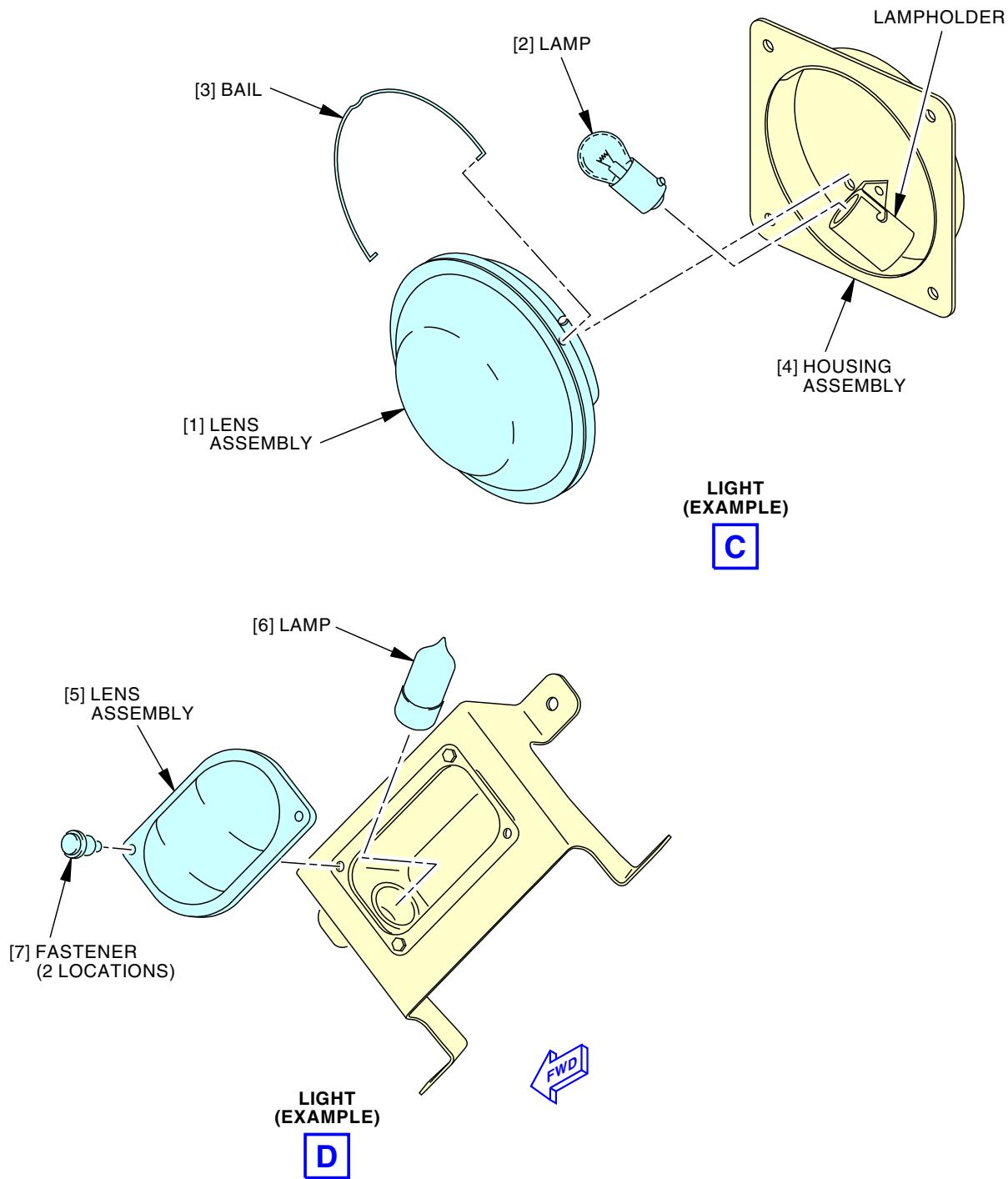
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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



F52195 S0006576122\_V3

Electronic Equipment Compartment Light - Lamp Replacement  
Figure 202/33-34-00-990-801 (Sheet 3 of 3)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-459

**33-34-00**

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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AIRCRAFT MAINTENANCE MANUAL

LOM 460-999

**TASK 33-34-00-960-802**

**5. Electronic Equipment Compartment - LED Light Replacement**

(Figure 203)

**A. References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
WDM 33-34-11	Wiring Diagram Manual

**B. Location Zones**

Zone	Area
112	Area Forward of Nose Landing Gear Wheel Well
117	Electrical and Electronics Compartment - Left
118	Electrical and Electronics Compartment - Right

**C. Access Panels**

Number	Name/Location
112A	Forward Access Door
117A	Electronic Equipment Access Door

**D. Electronic Equipment Compartment Lights Activation**

SUBTASK 33-34-00-010-006

- (1) Open these access panels:

Number	Name/Location
112A	Forward Access Door
117A	Electronic Equipment Access Door

SUBTASK 33-34-00-010-005



**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.

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

**Power Distribution Panel Number 1, P91**

Row	Col	Number	Name
C	2	C00139	ELEC RACK LT-FWD

EFFECTIVITY  
LOM ALL

**33-34-00**



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LOM 460-999 (Continued)

SUBTASK 33-34-00-860-009

- (3) At the access door, make sure the switch for the light is set to the OFF mode (WDM 33-34-11).

SUBTASK 33-34-00-960-002

- (4) Do these steps to replace the LED Light:

- (a) Remove the screws [4] and washers [3].
- (b) Remove the applicable LED Light [1] or LED Light [2].
- (c) Disconnect the electrical connector from the applicable LED Light [1] or LED Light [2].
- (d) Connect the electrical connector to the new LED Light [1] or LED Light [2].
- (e) Install the applicable LED Light [1] or LED Light [2].
- (f) Install the washers [3] and screws [4].

SUBTASK 33-34-00-860-008

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

SUBTASK 33-34-00-860-010



**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.

- (6) 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	2	C00139	ELEC RACK LT-FWD

SUBTASK 33-34-00-710-002

- (7) Do this test of the new LED Light Assembly:

- (a) At the access door, set the switch for the light to the ON mode.
  - 1) Make sure the LED Light comes on.
- (b) Set the switch to the OFF mode.
  - 1) Make sure the LED Light goes off.

SUBTASK 33-34-00-410-003

- (8) Close these access panels:

Number      Name/Location

112A	Forward Access Door
117A	Electronic Equipment Access Door

EFFECTIVITY  
LOM ALL

**33-34-00**



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

**LOM 460-999 (Continued)**

SUBTASK 33-34-00-860-007

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

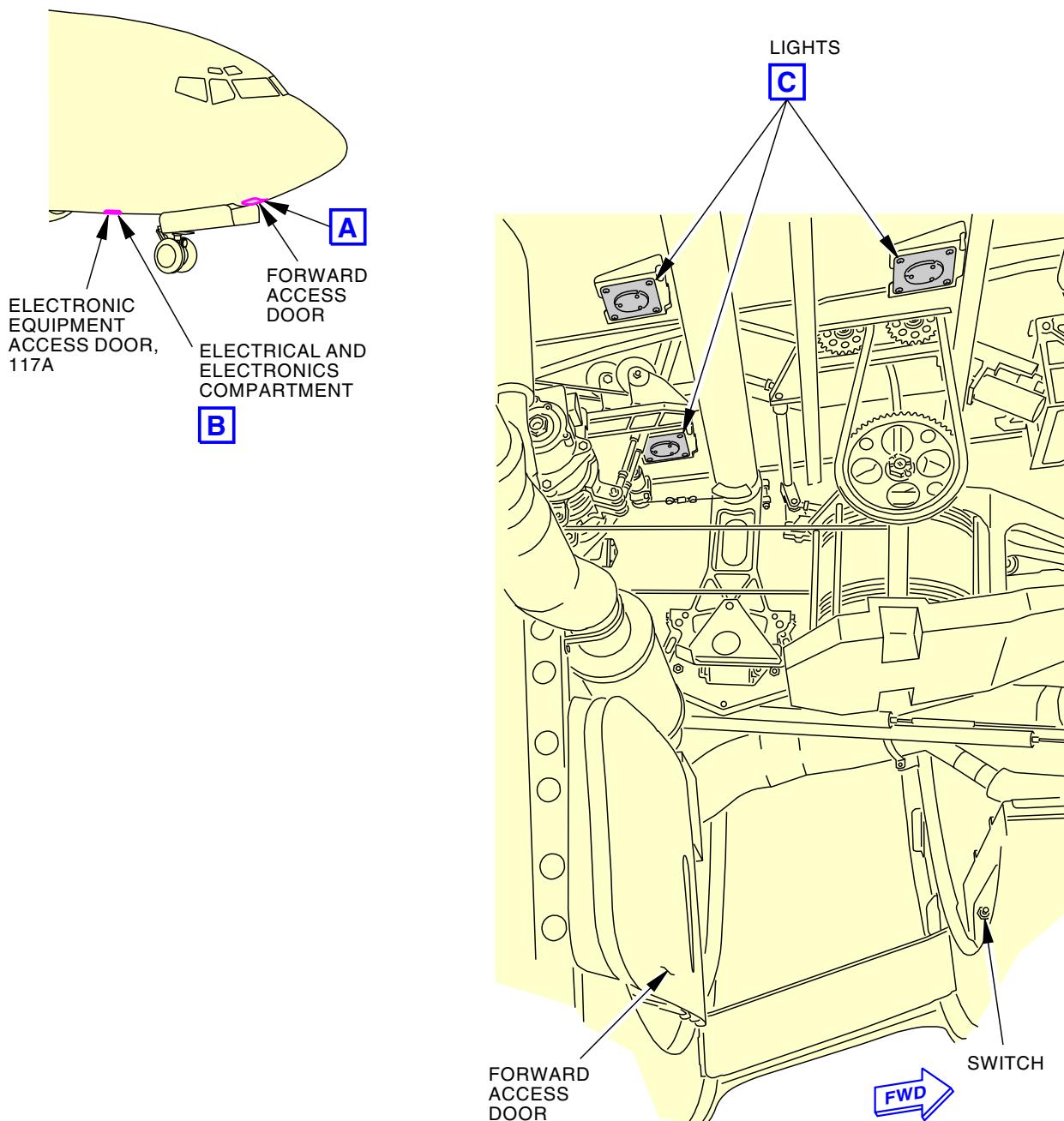
———— END OF TASK ————

— EFFECTIVITY —  
**LOM ALL**

**33-34-00**

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**VIEW IN THE UP AND OUTBOARD DIRECTION THROUGH FORWARD ACCESS DOOR**

**A**

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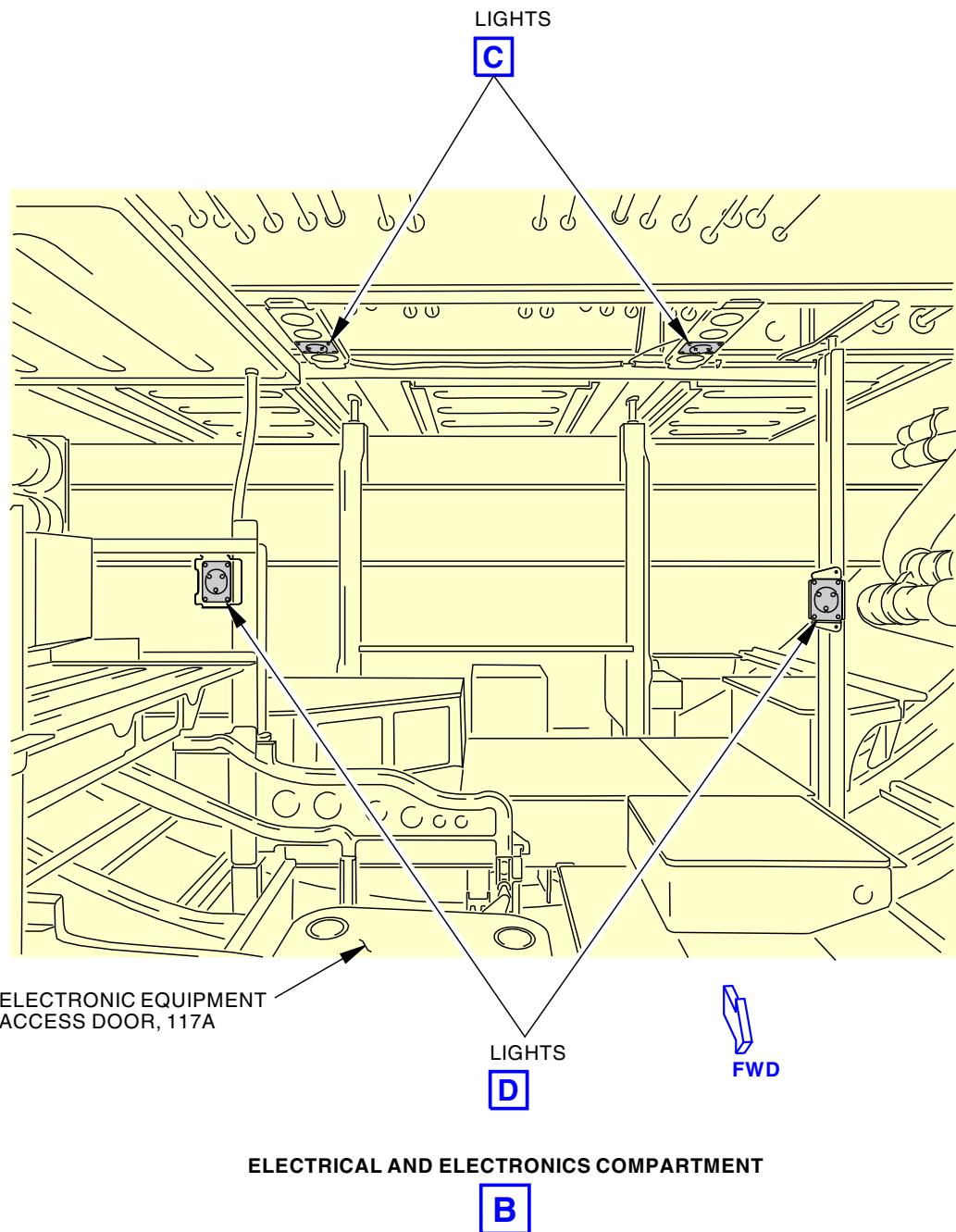
**Electronic Equipment Compartment Light - LED Replacement**  
**Figure 203/33-34-00-990-803 (Sheet 1 of 3)**

EFFECTIVITY  
**LOM 460-999**

**33-34-00**



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



2405637 S0000556696\_V1

**Electronic Equipment Compartment Light - LED Replacement**  
Figure 203/33-34-00-990-803 (Sheet 2 of 3)

EFFECTIVITY  
LOM 460-999

**33-34-00**

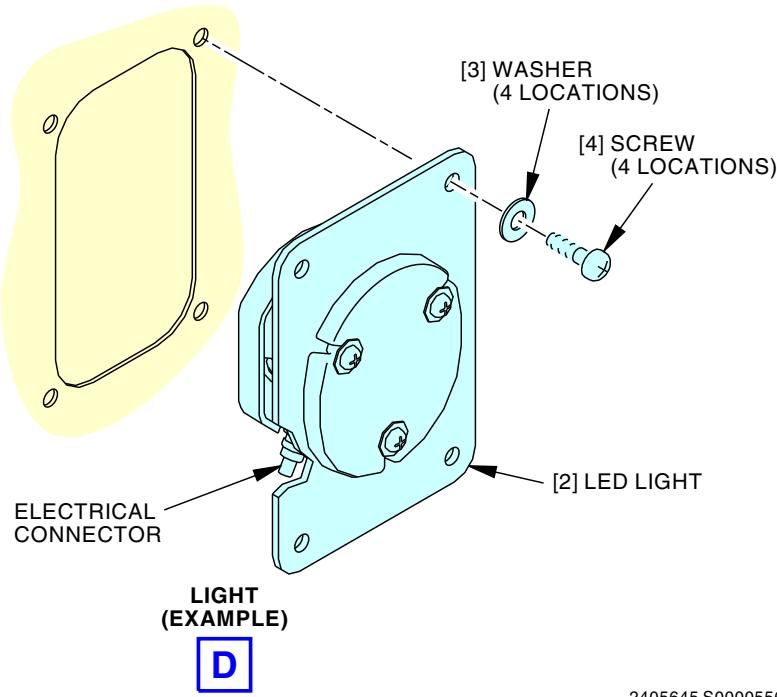
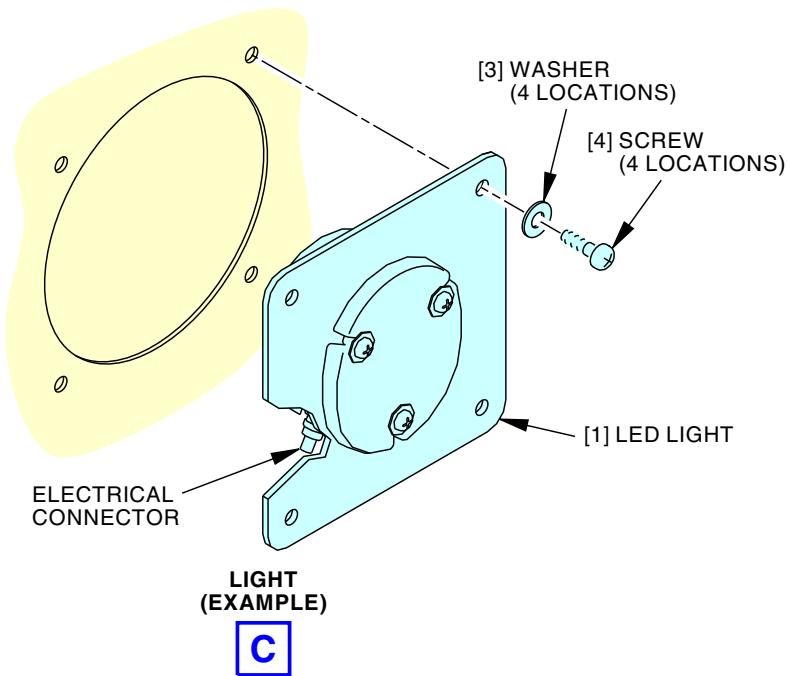
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AIRCRAFT MAINTENANCE MANUAL



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Electronic Equipment Compartment Light - LED Replacement  
Figure 203/33-34-00-990-803 (Sheet 3 of 3)

EFFECTIVITY  
LOM 460-999

**33-34-00**

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details





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

ACCESSORY COMPARTMENT LIGHTS - MAINTENANCE PRACTICES

**1. General**

- A. This procedure has these tasks:
- (1) A deactivation of the accessory compartment lights
  - (2) An activation of the accessory compartment lights
  - (3) A replacement of the accessory compartment light lamp.

**TASK 33-35-00-040-801**

**2. Accessory Compartment Lights - Deactivation**

(Figure 201)

**A. General**

- (1) This procedure removes electrical power to the Accessory Compartment Lights.

**B. Location Zones**

Zone	Area
117	Electrical and Electronics Compartment - Left
310	Fuselage - Body Station 1016.00 to Body Station 1217.00
311	Area Aft of Pressure Bulkhead - Left
315	APU Compartment - Left
318	Tail Cone Compartment - Right

**C. Access Panels**

Number	Name/Location
117A	Electronic Equipment Access Door
311BL	Stabilizer Trim Access Door
315A	APU Cowl Door
317AL	Tail Cone Access Door

**D. Accessory Compartment Lights Deactivation**

SUBTASK 33-35-00-010-004

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

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 33-35-00-860-004



**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.

EFFECTIVITY  
LOM ALL

**33-35-00**



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.

- (2) 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	5	C00389	ACCESS COMPT LT

**E. Accessory Compartment Lights - Tryout**

NOTE: This tryout is to make sure the Accessory Compartment Lights are in a zero energy state.

SUBTASK 33-35-00-010-005

- (1) Open these access panels:

**Number      Name/Location**

311BL	Stabilizer Trim Access Door
315A	APU Cowl Door
317AL	Tail Cone Access Door

SUBTASK 33-35-00-860-005



**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.

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

**Power Distribution Panel Number 1, P91**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	5	C00389	ACCESS COMPT LT

SUBTASK 33-35-00-410-003

- (3) Close this access panel:

**Number      Name/Location**

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

SUBTASK 33-35-00-700-001

- (4) At the tail cone access door, toggle the light switch to the ON mode.

EFFECTIVITY  
LOM ALL

**33-35-00**

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**AIRCRAFT MAINTENANCE MANUAL**

- (a) Make sure that the tail cone compartment light does not come on.
- (5) At the FWD end of the APU cowl door, toggle the light switch to the ON mode.
  - (a) Make sure that none of the APU compartment lights come on.
- (6) At the AFT end of the accessory compartment door, press the light switch button to the ON mode.
  - (a) Make sure that none of the accessory compartment lights come on.

SUBTASK 33-35-00-410-004

- (7) Close these access panels:

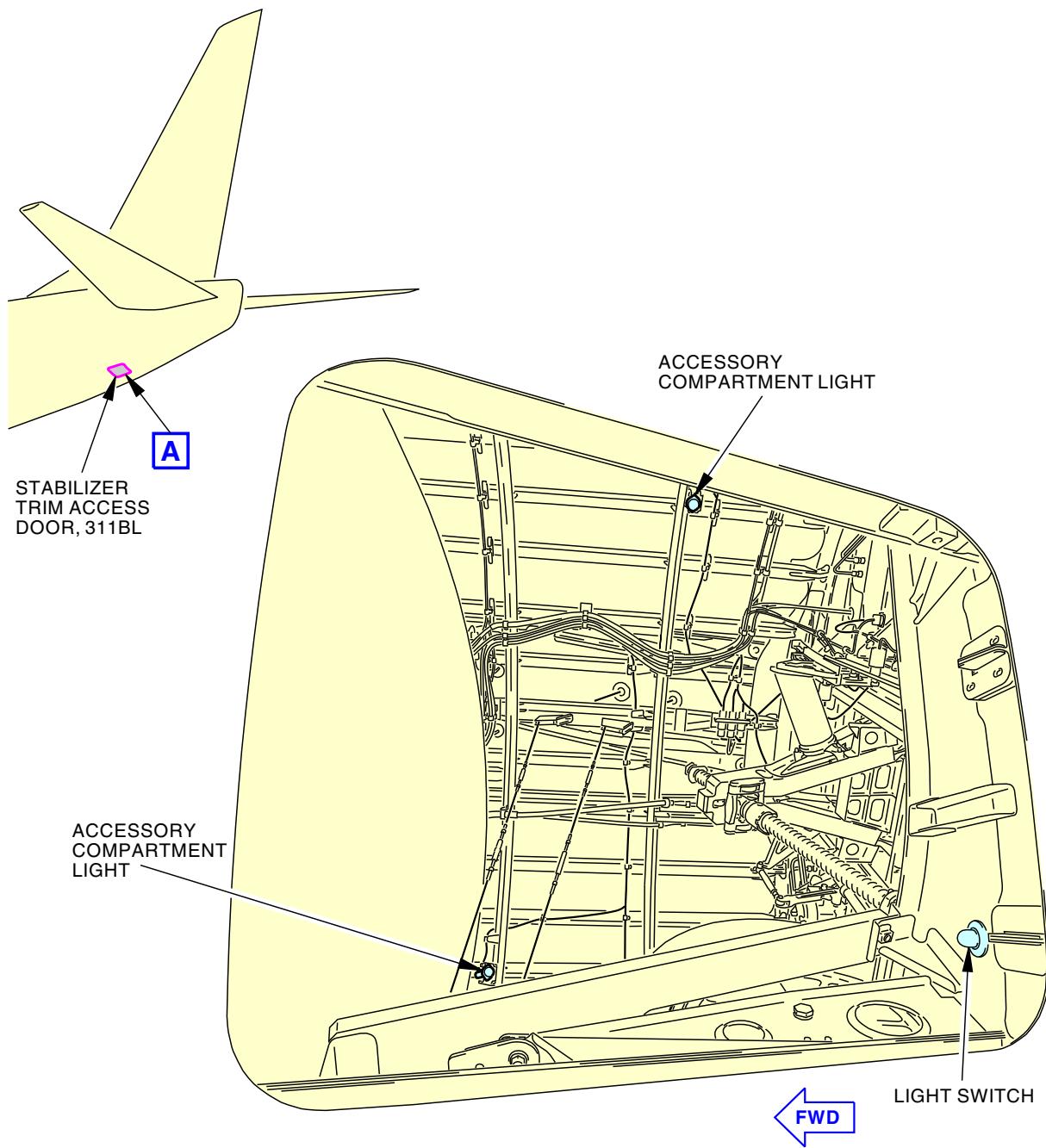
**Number**    **Name/Location**

311BL	Stabilizer Trim Access Door
315A	APU Cowl Door
317AL	Tail Cone Access Door

———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-35-00**



(VIEW WHEN YOU ARE LOOKING UP THROUGH  
THE STABILIZER TRIM ACCESS DOOR)

A

2383668 S0000544468\_V1

**Accessory Compartment Lights**  
Figure 201/33-35-00-990-802 (Sheet 1 of 3)

EFFECTIVITY  
LOM ALL

**33-35-00**

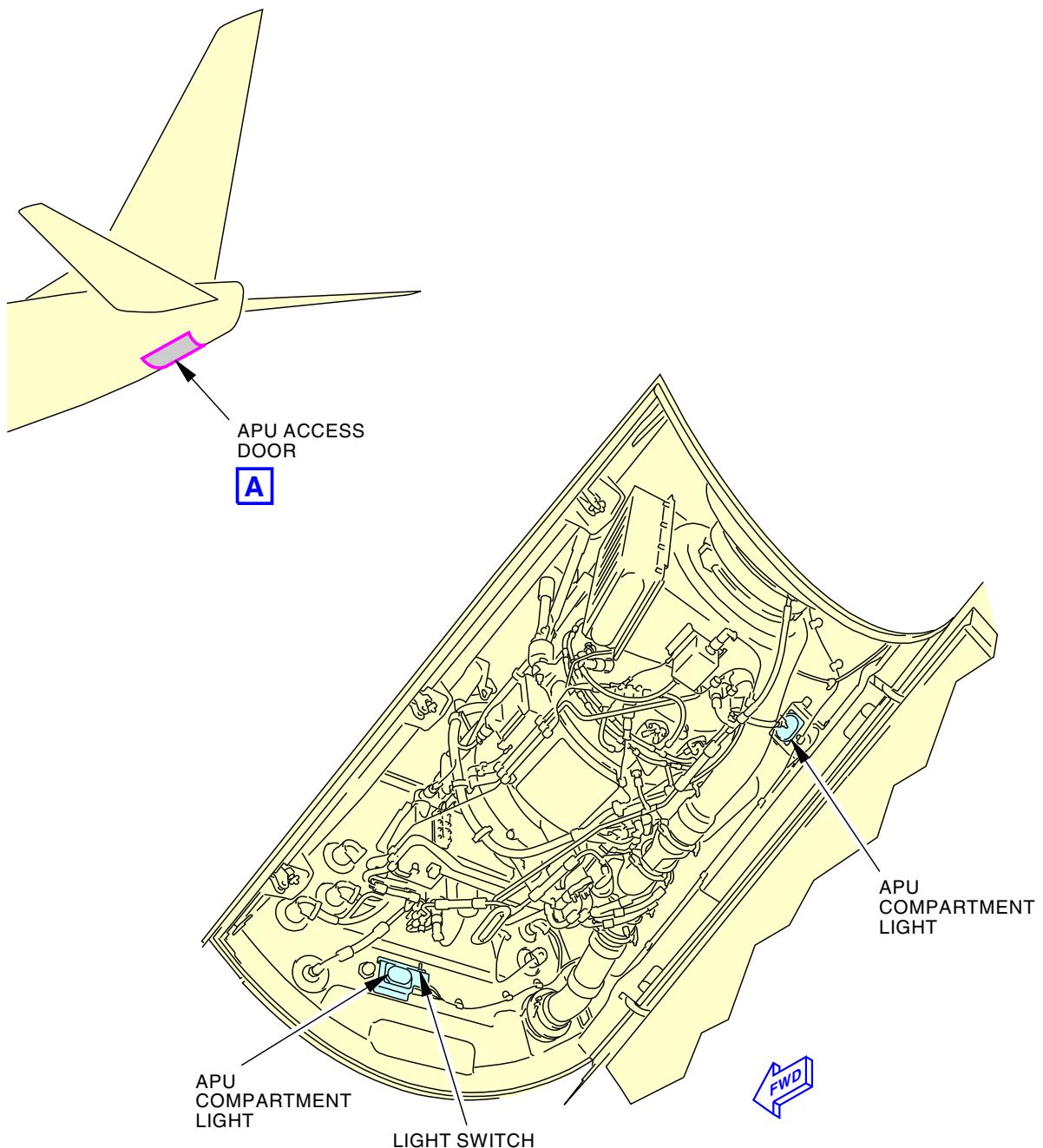
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737-600/700/800/900  
AIRCRAFT MAINTENANCE MANUAL



(VIEW WHEN YOU ARE LOOKING UP THROUGH THE APU ACCESS DOOR)



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**Accessory Compartment Lights**  
Figure 201/33-35-00-990-802 (Sheet 2 of 3)

EFFECTIVITY  
LOM ALL

**33-35-00**

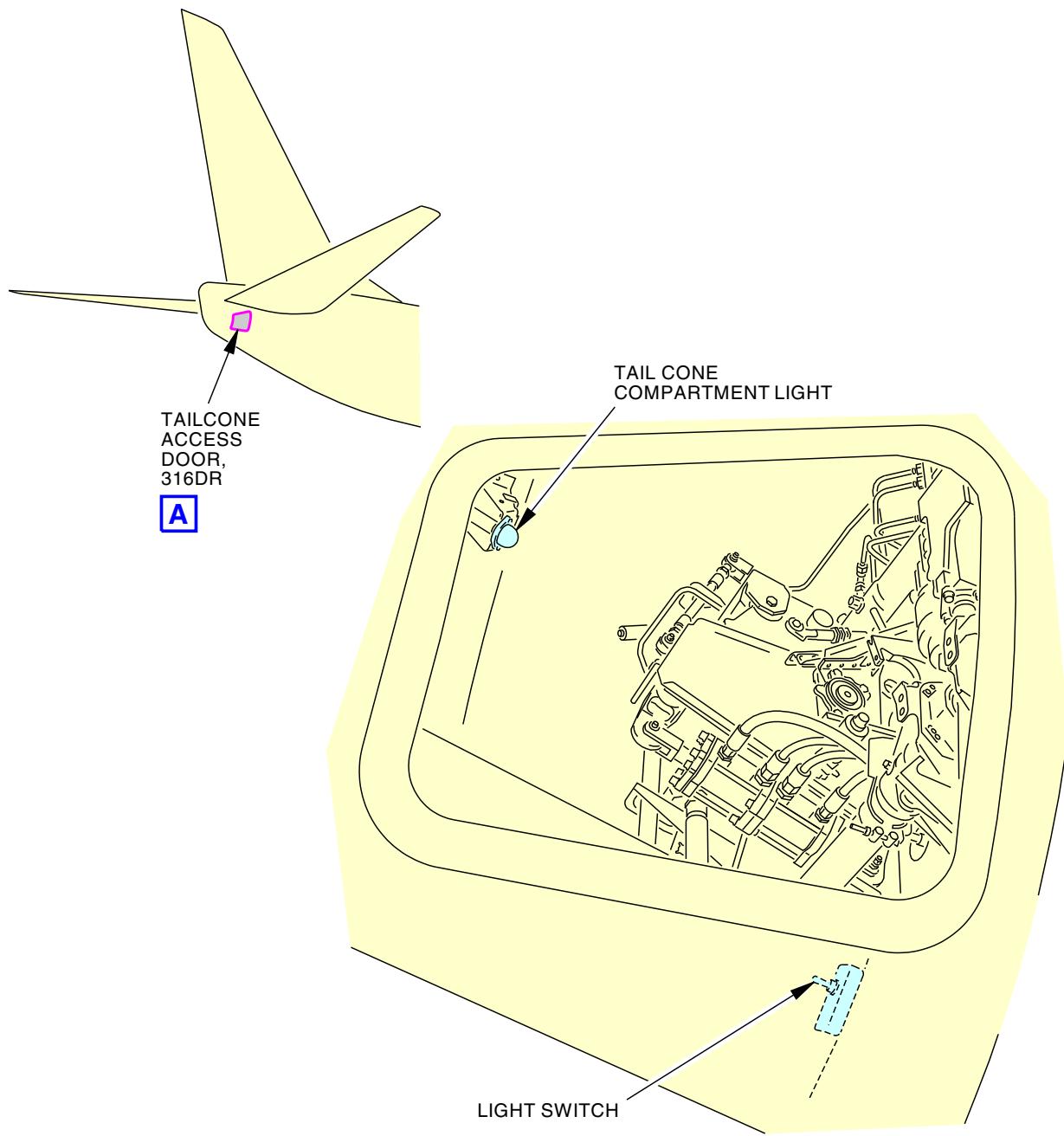
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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



A

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**Accessory Compartment Lights**  
Figure 201/33-35-00-990-802 (Sheet 3 of 3)

EFFECTIVITY  
LOM ALL

**33-35-00**

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AIRCRAFT MAINTENANCE MANUAL

TASK 33-35-00-440-801

3. **Accessory Compartment Lights - Activation**

(Figure 201)

A. **General**

- (1) This procedure adds electrical power to the Accessory Compartment Lights.

B. **Location Zones**

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

C. **Access Panels**

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

D. **Accessory Compartment Lights Activation**

SUBTASK 33-35-00-010-006

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

**Number      Name/Location**

117A      Electronic Equipment Access Door

SUBTASK 33-35-00-860-006



**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) Remove the safety tag and close this circuit breaker:

**Power Distribution Panel Number 1, P91**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
C	5	C00389	ACCESS COMPT LT

SUBTASK 33-35-00-410-002

- (3) Close this access panel:

**Number      Name/Location**

117A      Electronic Equipment Access Door

— END OF TASK —

EFFECTIVITY  
LOM ALL

**33-35-00**



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

**TASK 33-35-00-960-801**

**4. Accessory Compartment Light - Lamp Replacement**

(Figure 202)

**A. References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
WDM 33-35-11	Wiring Diagram Manual

**B. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Lamp	33-30-51-50A-025	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459
2	Gasket	33-30-51-50A-020	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459
5	Lamp	33-35-00-02A-115	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459

**C. Location Zones**

Zone	Area
310	Fuselage - Body Station 1016.00 to Body Station 1217.00

**D. Access Panels**

Number	Name/Location
311BL	Stabilizer Trim Access Door
315A	APU Cowl Door
317AL	Tail Cone Access Door

**E. Procedure**

SUBTASK 33-35-00-010-001

- (1) For access to the area aft of the bulkhead, do this step:

- (a) Open this access panel:

Number	Name/Location
311BL	Stabilizer Trim Access Door

SUBTASK 33-35-00-010-002

- (2) For access to the APU compartment, do this step:

- (a) Open this access panel:

Number	Name/Location
315A	APU Cowl Door

SUBTASK 33-35-00-010-003

- (3) For access to the tailcone, do this step:

EFFECTIVITY	
LOM ALL	

**33-35-00**



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

- (a) Open this access panel:

**Number      Name/Location**

317AL      Tail Cone Access Door

SUBTASK 33-35-00-860-001

- (4) At the access door, set the switch for the light to the off mode (WDM 33-35-11).

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459**

SUBTASK 33-35-00-960-001

- (5) Do these steps to replace the lamp:

- (a) Loosen the applicable fasteners [4] or fasteners [7].
- (b) Remove the applicable lens assembly [3] or lens assembly [6].
- (c) Replace the applicable lamp [1] or lamp [5].
- (d) Install the applicable lens assembly [3] or lens assembly [6].
  - 1) Check the gasket [2], if one is installed.
  - 2) If the gasket [2] is damaged, replace it.
- (e) Tighten the applicable fasteners [4] or fasteners [7].

**LOM 460-999**

SUBTASK 33-35-00-960-002

- (6) Do these steps to replace the lens assembly:

- (a) Loosen the applicable fasteners [4].
  - 1) If washers [8] are installed, remove them.
- (b) Loosen the nut [10] from the jumper cable.
  - 1) If washer [8] is installed, remove it.
- (c) Replace the applicable lens assembly [9].
- (d) Tighten the nut [10] on the jumper cable.
  - 1) If washer [8] was removed, install it.
- (e) Tighten the applicable fasteners [4].
  - 1) If washers [8] were removed, install them.

**LOM ALL**

SUBTASK 33-35-00-860-002

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

SUBTASK 33-35-00-710-001

- (8) Do this test of the new lamp:

- (a) At the access door, set the switch for the light to the on mode.
  - 1) Make sure the lamp comes on.
- (b) Set the switch to the off mode.
  - 1) Make sure the lamp goes off.

EFFECTIVITY  
LOM ALL

**33-35-00**



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AIRCRAFT MAINTENANCE MANUAL

SUBTASK 33-35-00-410-001

- (9) Close these access panels:

<u>Number</u>	<u>Name/Location</u>
311BL	Stabilizer Trim Access Door
315A	APU Cowl Door
317AL	Tail Cone Access Door

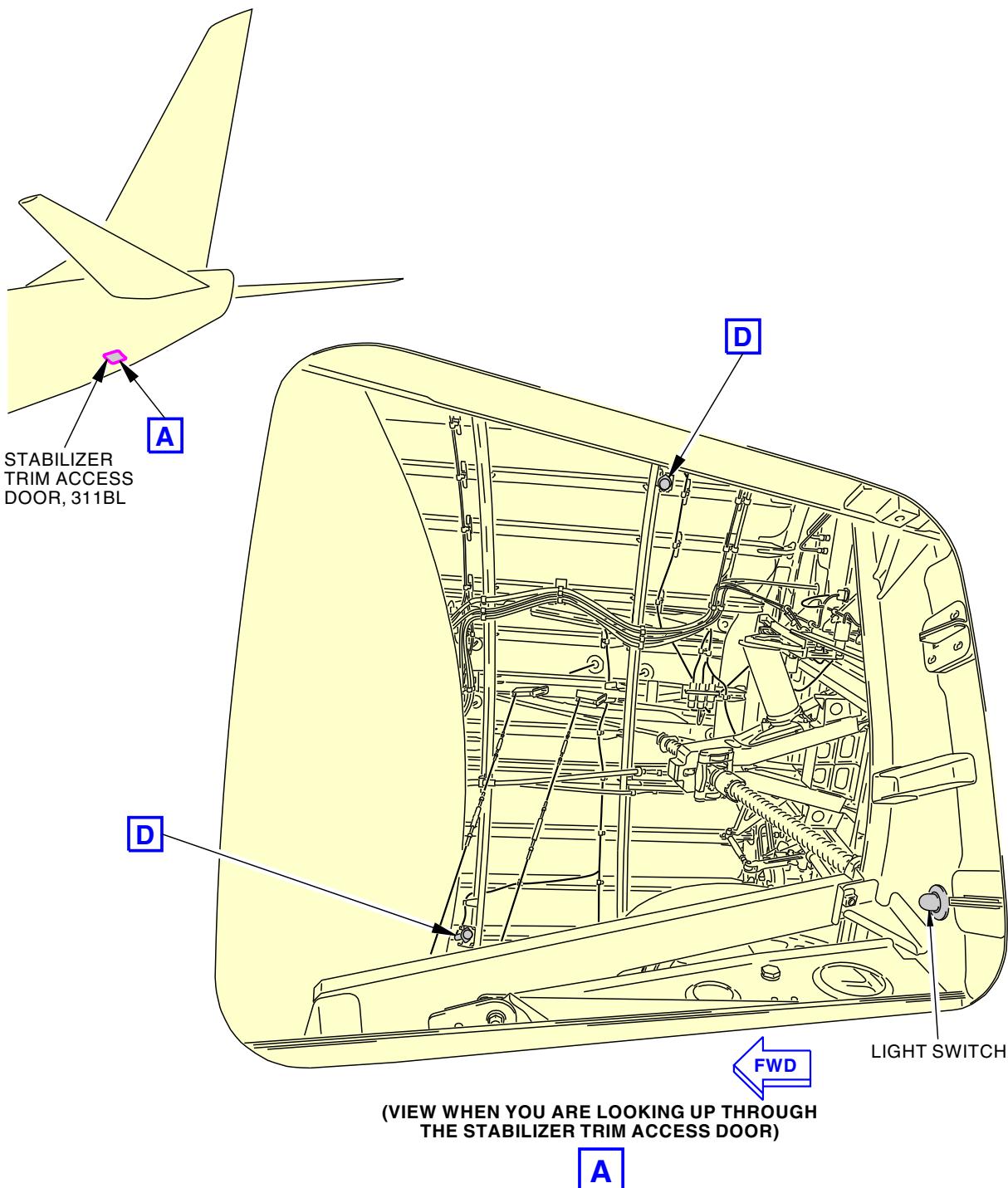
SUBTASK 33-35-00-860-003

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

———— END OF TASK ————

EFFECTIVITY  
LOM ALL

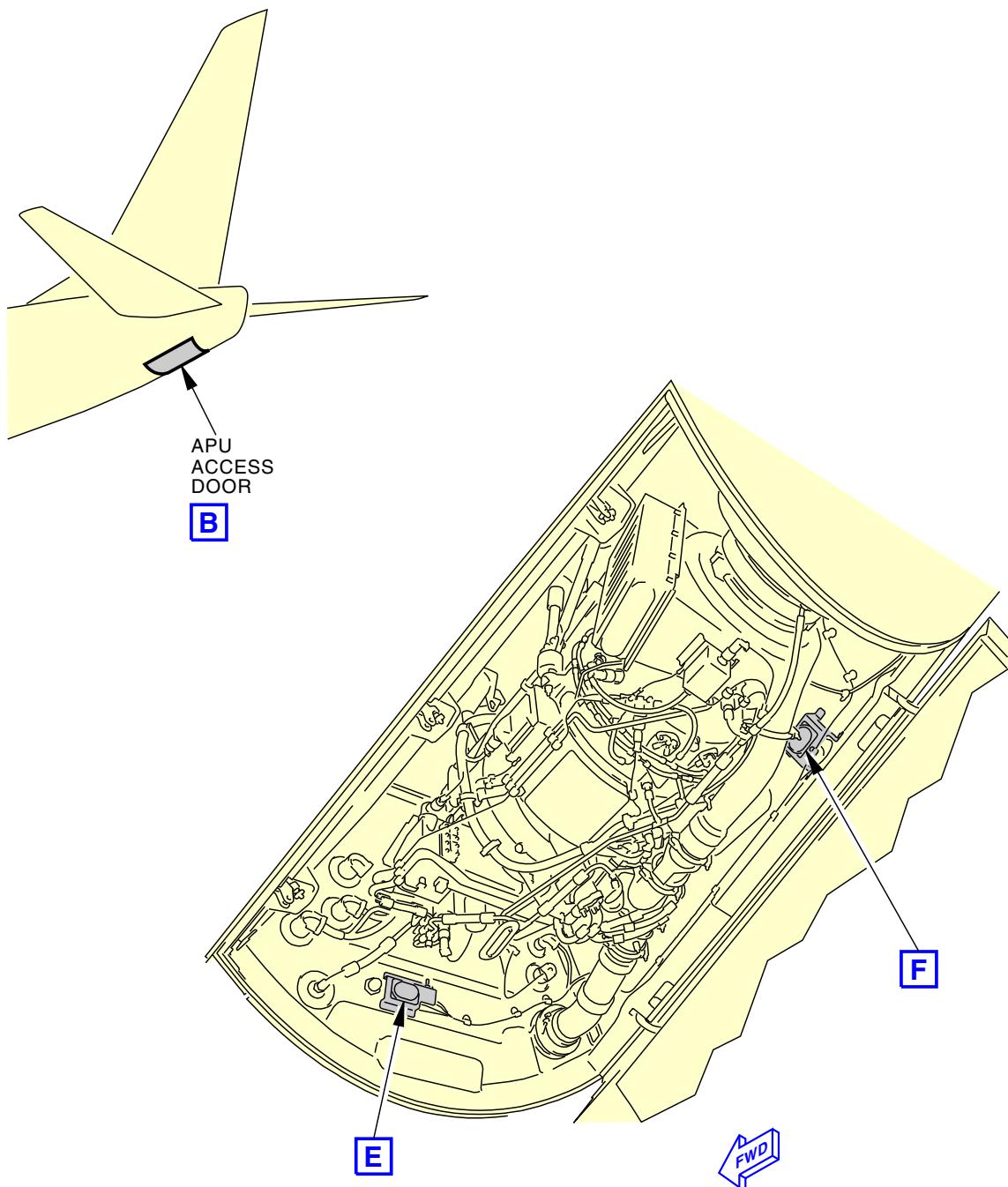
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**Accessory Compartment Light - Lamp Replacement**  
Figure 202/33-35-00-990-801 (Sheet 1 of 5)EFFECTIVITY  
LOM ALL**33-35-00**

D633A101-LOM



(VIEW WHEN YOU ARE LOOKING UP THROUGH THE APU ACCESS DOOR)



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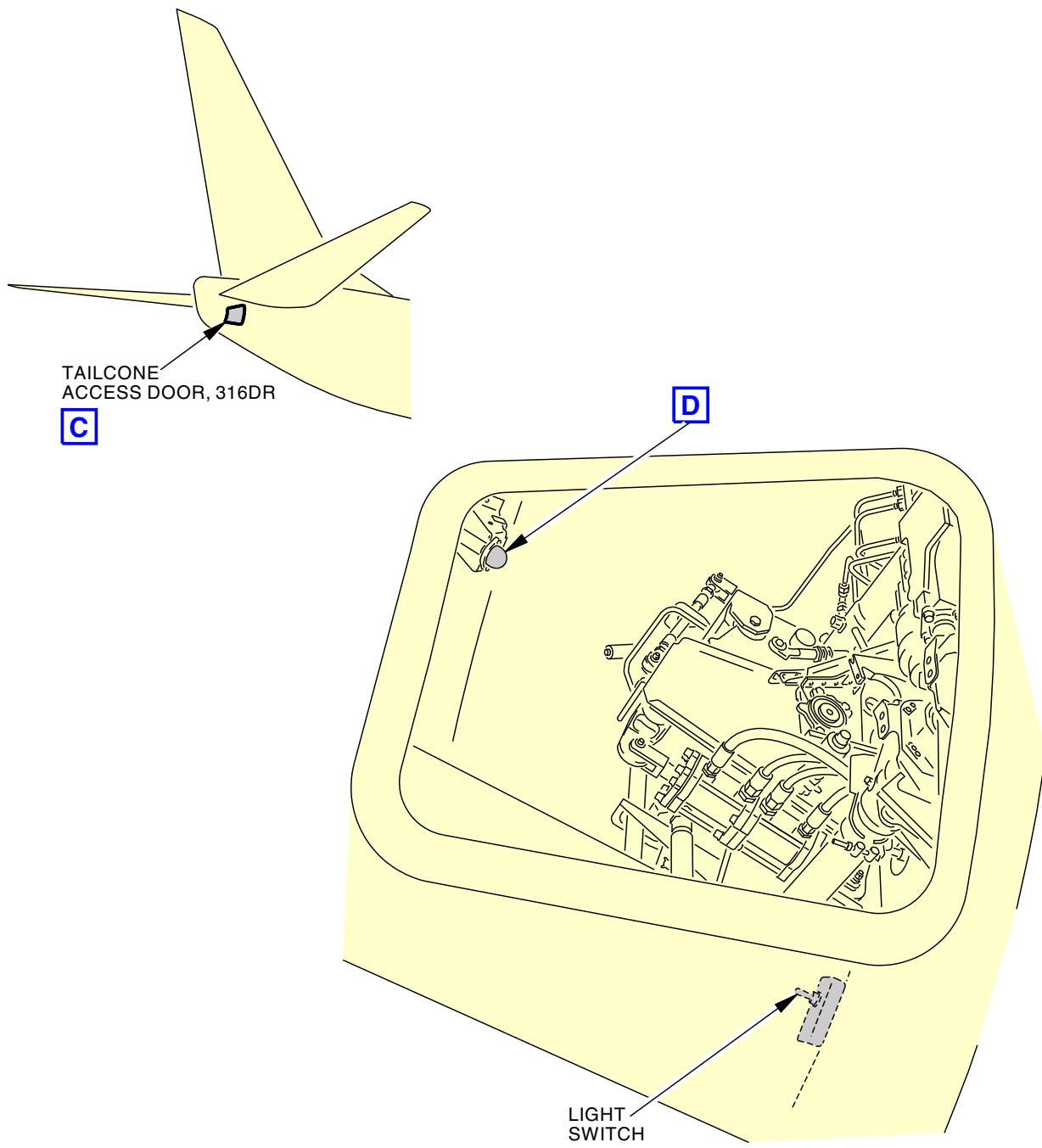
**Accessory Compartment Light - Lamp Replacement**  
Figure 202/33-35-00-990-801 (Sheet 2 of 5)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-459

**33-35-00**

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details



(VIEW WHEN YOU ARE LOOKING UP  
THROUGH THE TAIL CONE ACCESS DOOR)

C

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**Accessory Compartment Light - Lamp Replacement**  
Figure 202/33-35-00-990-801 (Sheet 3 of 5)

EFFECTIVITY  
LOM ALL

**33-35-00**

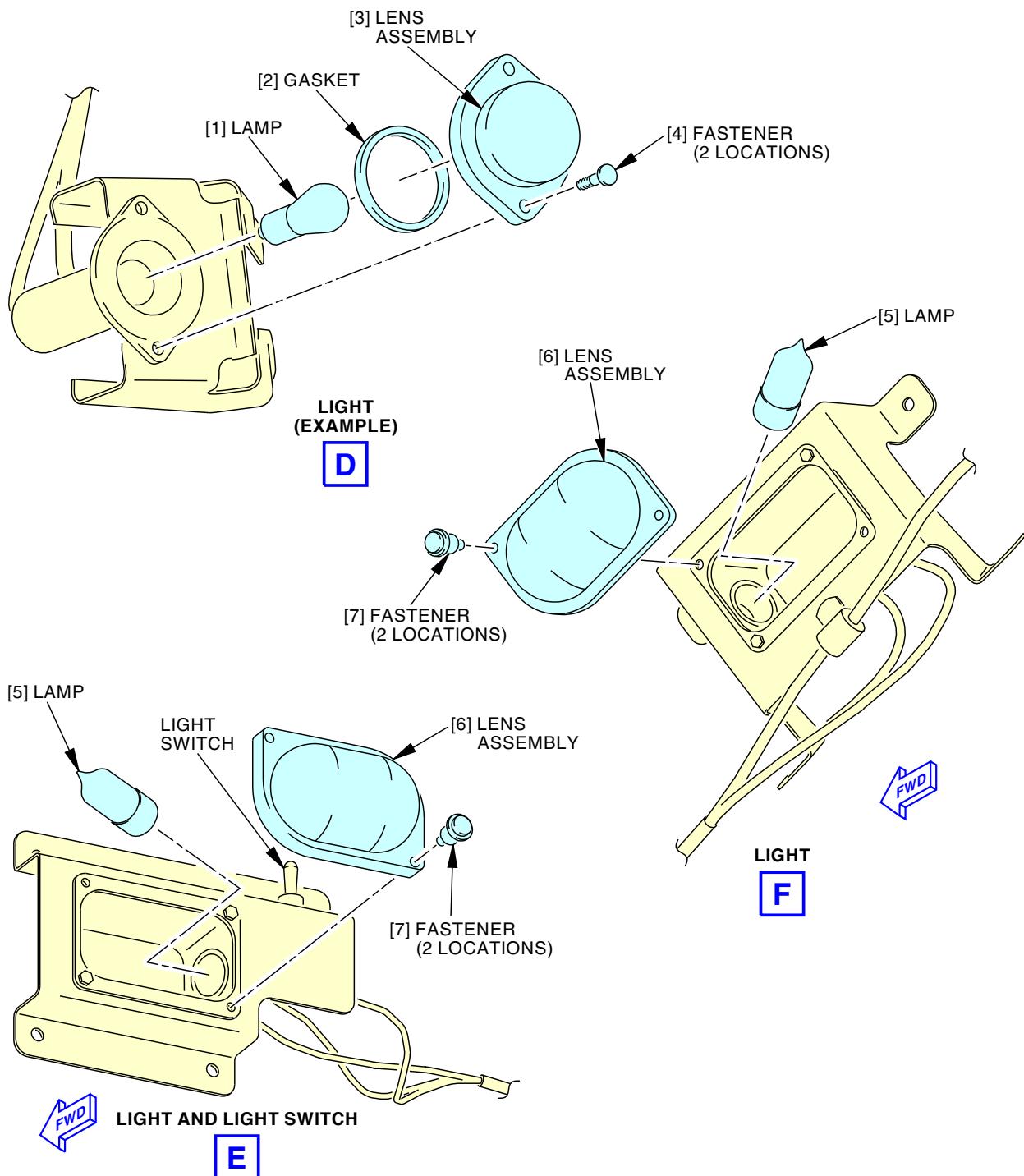
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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



F49444 S0006576130\_V2

**Accessory Compartment Light - Lamp Replacement**  
**Figure 202/33-35-00-990-801 (Sheet 4 of 5)**

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-459

**33-35-00**

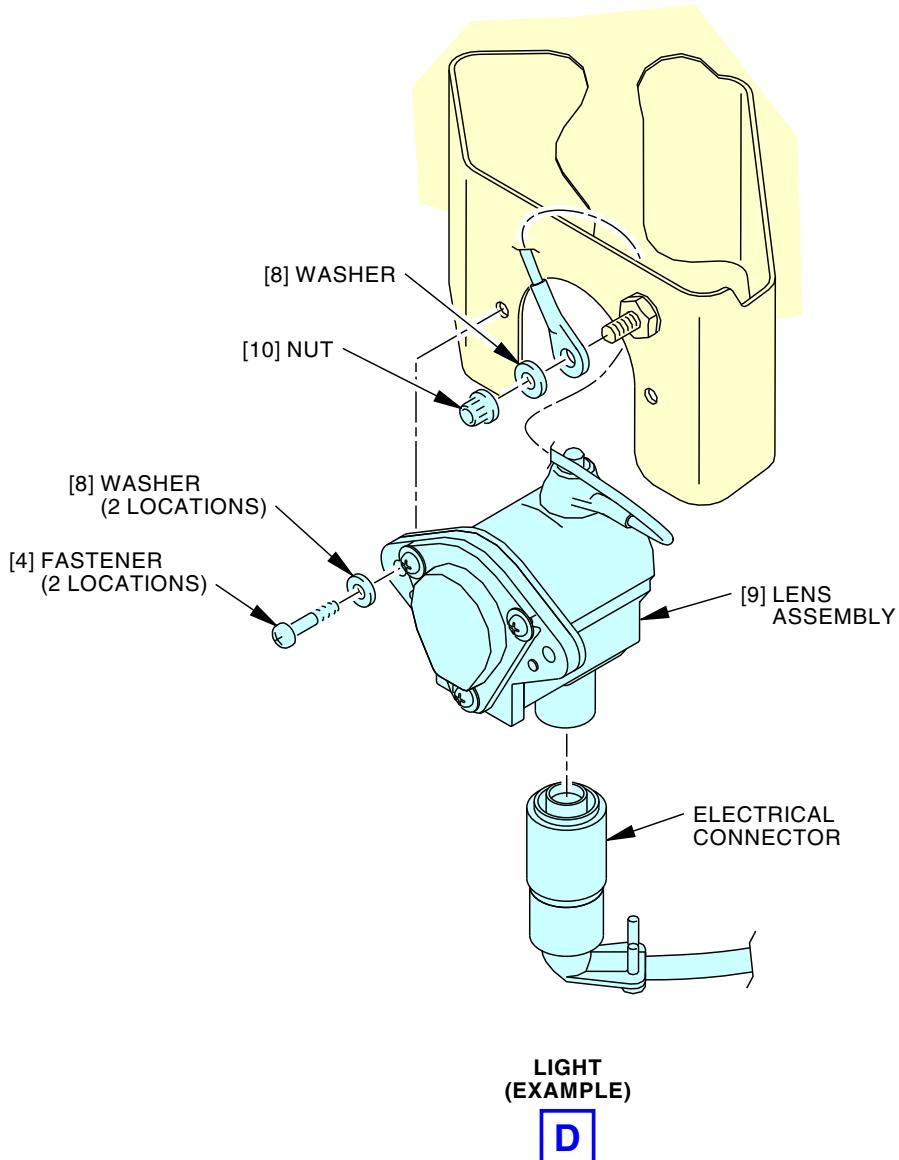
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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



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Accessory Compartment Light - Lamp Replacement  
Figure 202/33-35-00-990-801 (Sheet 5 of 5)

EFFECTIVITY  
LOM 460-999

**33-35-00**

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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

CARGO COMPARTMENT LIGHTS - MAINTENANCE PRACTICES

**1. General**

A. This procedure has these tasks:

- (1) Cargo Compartment Lights Deactivation.
- (2) Cargo Compartment Lights Activation.

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459**

- (3) Cargo Compartment Light - Lamp Replacement, Ceiling
- (4) Cargo Compartment Light - Lamp Replacement, Door
- (5) Cargo Compartment Light - Light Assembly Replacement, Ceiling
- (6) Cargo Compartment Light - Light Assembly Replacement, Door
- (7) Cargo Compartment Light - Lens Assembly Replacement, Ceiling

**LOM 460-999**

- (8) Cargo Compartment Light - LED Light Assembly Replacement, Ceiling
- (9) Cargo Compartment Light - LED Light Assembly Replacement, Door

**LOM ALL**

**TASK 33-36-00-040-801**

**2. Cargo Compartment Lights - Deactivation**

(Figure 201)

**A. General**

- (1) This procedure removes electrical power to the Cargo Compartment Lights.

**B. References**

Reference	Title
52-31-00-580-801	Open the Cargo Door (P/B 201)

**C. Location Zones**

Zone	Area
118	Electrical and Electronics Compartment - Right
121	Forward Cargo Compartment - Left
122	Forward Cargo Compartment - Right
141	Aft Cargo Compartment - Left
142	Aft Cargo Compartment - Right

**D. Access Panels**

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

EFFECTIVITY  
**LOM ALL**

**33-36-00**



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**E. Cargo Compartment Lights Deactivation**

SUBTASK 33-36-00-010-009

- (1) To get access to the P92 panel, open this access panel:

**Number      Name/Location**

117A      Electronic Equipment Access Door

SUBTASK 33-36-00-860-015

**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 2, P92**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
C	4	C00127	CARGO COMPT LT-FWD
C	5	C00128	CARGO COMPT LT-AFT
C	10	C01419	CARGO LT CONT

SUBTASK 33-36-00-010-010

- (3) For access to the lights, do this step: (TASK 52-31-00-580-801)

- (a) Open these access panels:

**Number      Name/Location**

821      Forward Cargo Door  
822      Aft Cargo Door

**F. Cargo Compartment Lights Tryout**

NOTE: This tryout is to make sure the Cargo Compartment Lights are in a zero energy state.

SUBTASK 33-36-00-700-001

- (1) Do these steps at the FWD cargo door:

- (a) Make sure the FWD Cargo Door Warning Switch (S960) is in the LOCKED position.

NOTE: The switch is located on the latch roller fitting, on the forward side of the cargo door frame.

- (b) Set the FWD cargo compartment lights switch (S67) to the ON mode.

NOTE: The switch is near the bottom on the forward side of the cargo door frame.

- 1) Make sure none of the FWD cargo compartment lights come on.

- (2) Do these steps at the AFT cargo door:

EFFECTIVITY  
LOM ALL

**33-36-00**



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- (a) Make sure the AFT Cargo Door Warning Switch (S961) is in the LOCKED position.  
NOTE: The switch is located on the latch roller fitting, on the forward side of the cargo door frame.
- (b) Set the AFT cargo compartment lights switch (S68) to the ON mode.  
NOTE: The switch is near the bottom on the forward side of the cargo door frame.
  - 1) Make sure none of the AFT cargo compartment lights come on.

**G. Put the Airplane Back to Its Usual Condition**

SUBTASK 33-36-00-410-034

- (1) Close this access panel:

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

SUBTASK 33-36-00-410-036

- (2) Close these access panels:

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

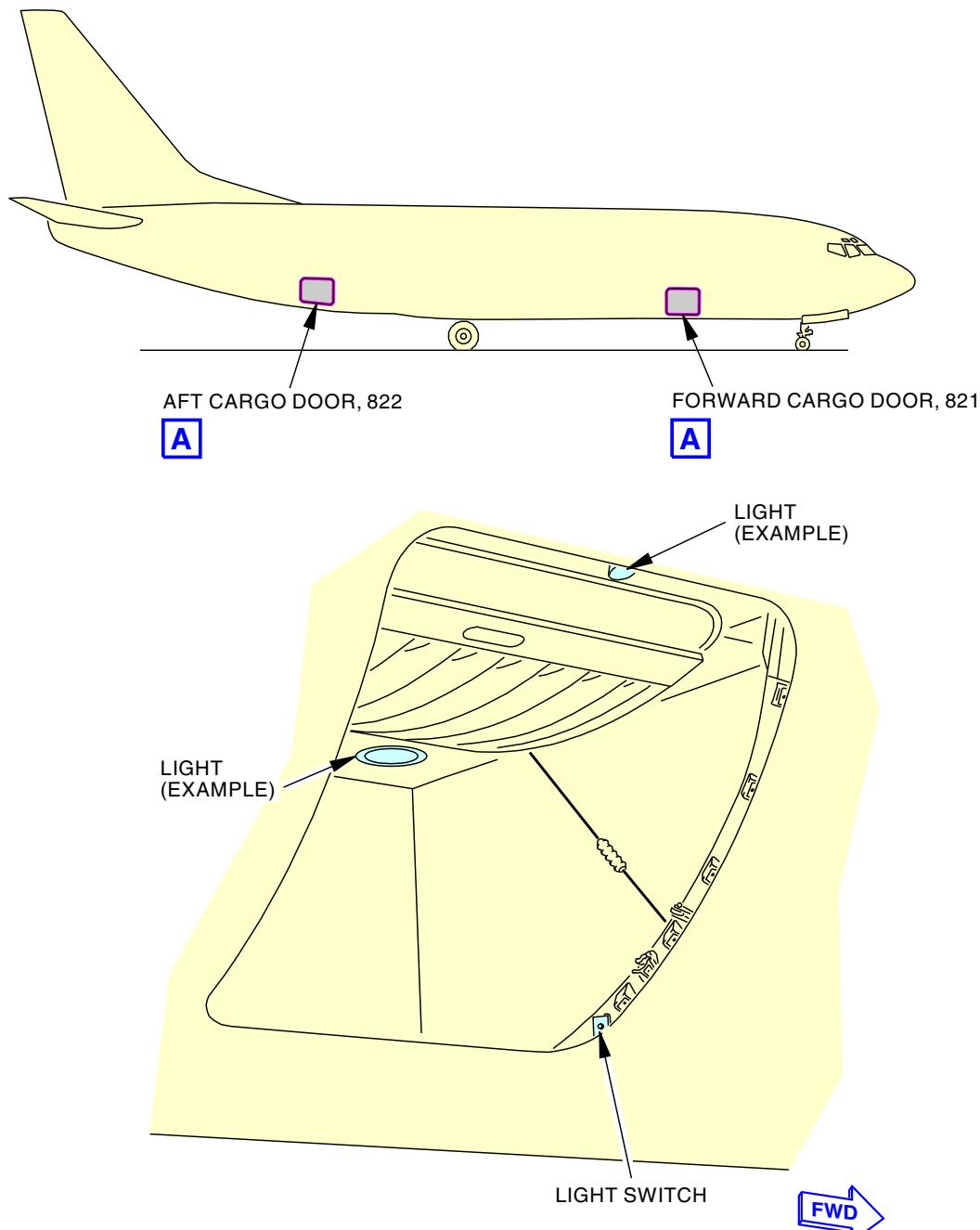
———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-36-00**



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AIRCRAFT MAINTENANCE MANUAL



VIEW THROUGH FORWARD CARGO DOOR, 821  
(AFT CARGO DOOR, 822, IS EQUIVALENT)



2383704 S0000544715\_V1

**Cargo Compartment Lights**  
Figure 201/33-36-00-990-803

EFFECTIVITY  
LOM ALL

**33-36-00**

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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**TASK 33-36-00-440-801**

**3. Cargo Compartment Lights - Activation**

(Figure 201)

**A. General**

- (1) This procedure adds electrical power to the Cargo Compartment Lights.

**B. Location Zones**

<b>Zone</b>	<b>Area</b>
-------------	-------------

118	Electrical and Electronics Compartment - Right
-----	--

**C. Access Panels**

<b>Number</b>	<b>Name/Location</b>
---------------	----------------------

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

**D. Cargo Compartment Lights Activation**

SUBTASK 33-36-00-010-036

- (1) To get access to the P92 panel, open this access panel:

<b>Number</b>	<b>Name/Location</b>
---------------	----------------------

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

SUBTASK 33-36-00-860-016



**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 2, P92**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
C	4	C00127	CARGO COMPT LT-FWD
C	5	C00128	CARGO COMPT LT-AFT
C	10	C01419	CARGO LT CONT

SUBTASK 33-36-00-410-009

- (3) Close this access panel:

<b>Number</b>	<b>Name/Location</b>
---------------	----------------------

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

— END OF TASK —

EFFECTIVITY  
LOM ALL

**33-36-00**



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**AIRCRAFT MAINTENANCE MANUAL**

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459**

**TASK 33-36-00-960-801**

**4. Cargo Compartment Light - Lamp Replacement, Ceiling**

(Figure 202)

**A. References**

<b>Reference</b>	<b>Title</b>
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)

**B. Expendables/Parts**

<b>AMM Item</b>	<b>Description</b>	<b>AIPC Reference</b>	<b>AIPC Effectivity</b>
7	Lamp	33-36-00-15-010	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459

**C. Location Zones**

<b>Zone</b>	<b>Area</b>
121	Forward Cargo Compartment - Left
122	Forward Cargo Compartment - Right
141	Aft Cargo Compartment - Left
142	Aft Cargo Compartment - Right

**D. Access Panels**

<b>Number</b>	<b>Name/Location</b>
821	Forward Cargo Door
822	Aft Cargo Door

**E. Procedure**

**SUBTASK 33-36-00-860-001**

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

**SUBTASK 33-36-00-010-001**

- (2) Open the applicable cargo door:

<b>Number</b>	<b>Name/Location</b>
821	Forward Cargo Door
822	Aft Cargo Door

**SUBTASK 33-36-00-960-001**

- (3) Do these steps to replace the lamp :

- (a) Set the switch for the light to the off mode.

NOTE: The switch is near the bottom of the cargo door frame.

**LOM 402, 404**

- (b) For the light assembly [1], turn two ball studs [12] one-quarter turn and pull the lens assembly [6] away from housing assembly to length of electrical wires, but do not remove the lanyard [5].

NOTE: Each light assembly [1] has a microswitch [2] which sets the light to the off mode when the lens assembly is removed.

EFFECTIVITY
LOM ALL

**33-36-00**



**737-600/700/800/900**  
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**LOM 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459**

- (c) For the light assembly [1], turn two ball studs [12] one-quarter turn and pull the lens assembly [6] away from housing assembly to length of electrical wires, but do not remove the retaining stud [13].

NOTE: Each light assembly [1] has a microswitch [2] which sets the light to the off mode when the lens assembly is removed.

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459**

- (d) Replace the lamp [7].  
(e) For the light assembly [1], position two ball studs [12] on the lens assembly [6] and attach with two retaining rings [11].

NOTE: If the lens assembly smoke penetration prevention tape gasket is missing or damaged, install or replace the foam tape or the gasket as indicated in Cargo Compartment Light - Light Assembly Replacement, Ceiling, TASK 33-36-00-960-803.

**SUBTASK 33-36-00-710-001**

- (4) Do a test of the new lamp.  
(a) If the lamp does not come on when the lens assembly is replaced, set the switch for the light to the on mode.  
NOTE: The switch is near the bottom of the cargo door frame.  
1) Make sure the lamp comes on.  
(b) Set the switch to the off mode.  
1) Make sure the lamp goes off.

**SUBTASK 33-36-00-410-001**

- (5) Close the applicable cargo door:

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

**SUBTASK 33-36-00-860-002**

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

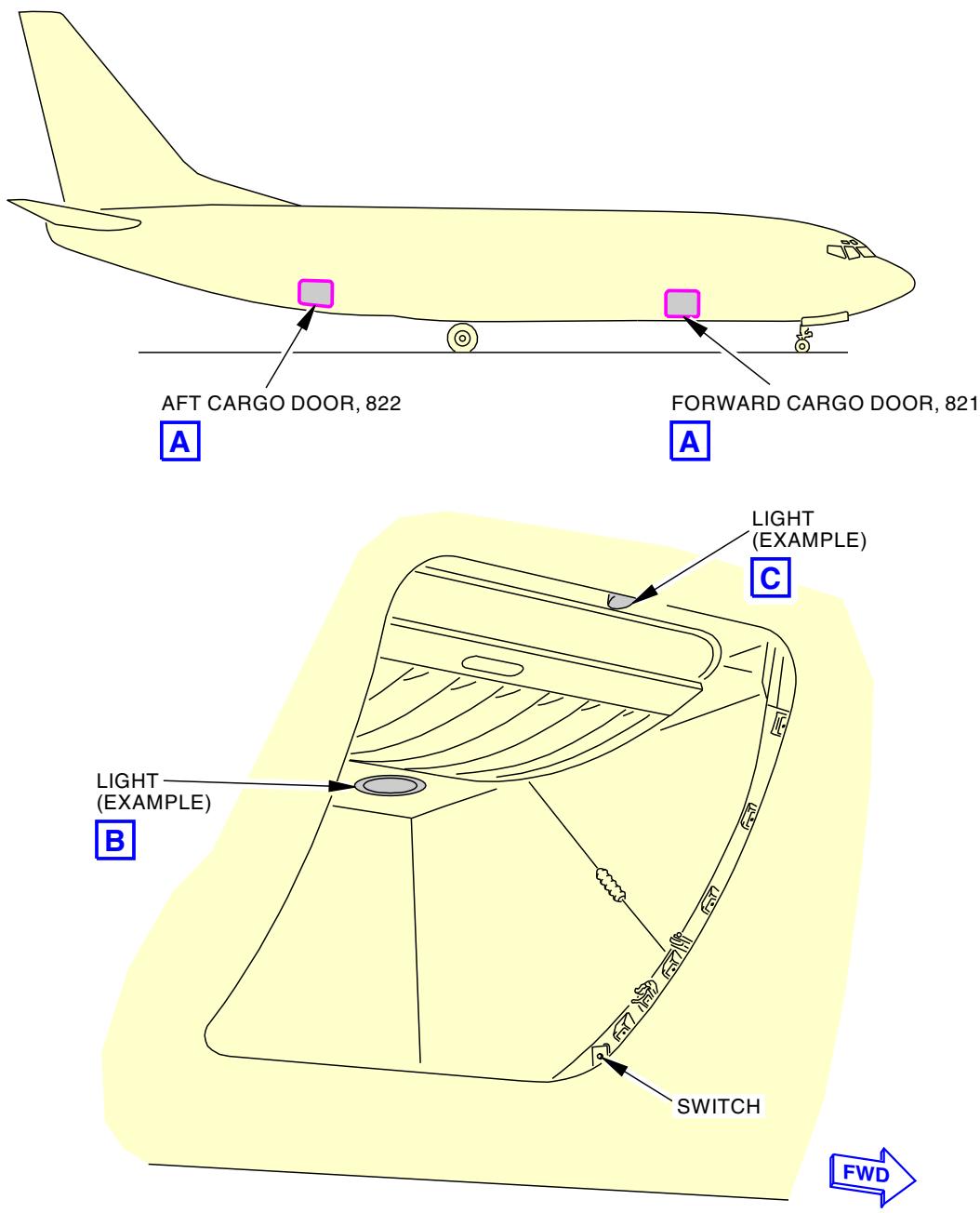
———— END OF TASK ———

EFFECTIVITY  
**LOM ALL**

**33-36-00**



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AIRCRAFT MAINTENANCE MANUAL



VIEW THROUGH FORWARD CARGO DOOR, 821  
(AFT CARGO DOOR, 822, IS EQUIVALENT)

A

F41869 S0006576142\_V2

**Cargo Compartment Light - Lamp/Light/Lens Assembly Replacement**  
Figure 202/33-36-00-990-802 (Sheet 1 of 3)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-459

**33-36-00**

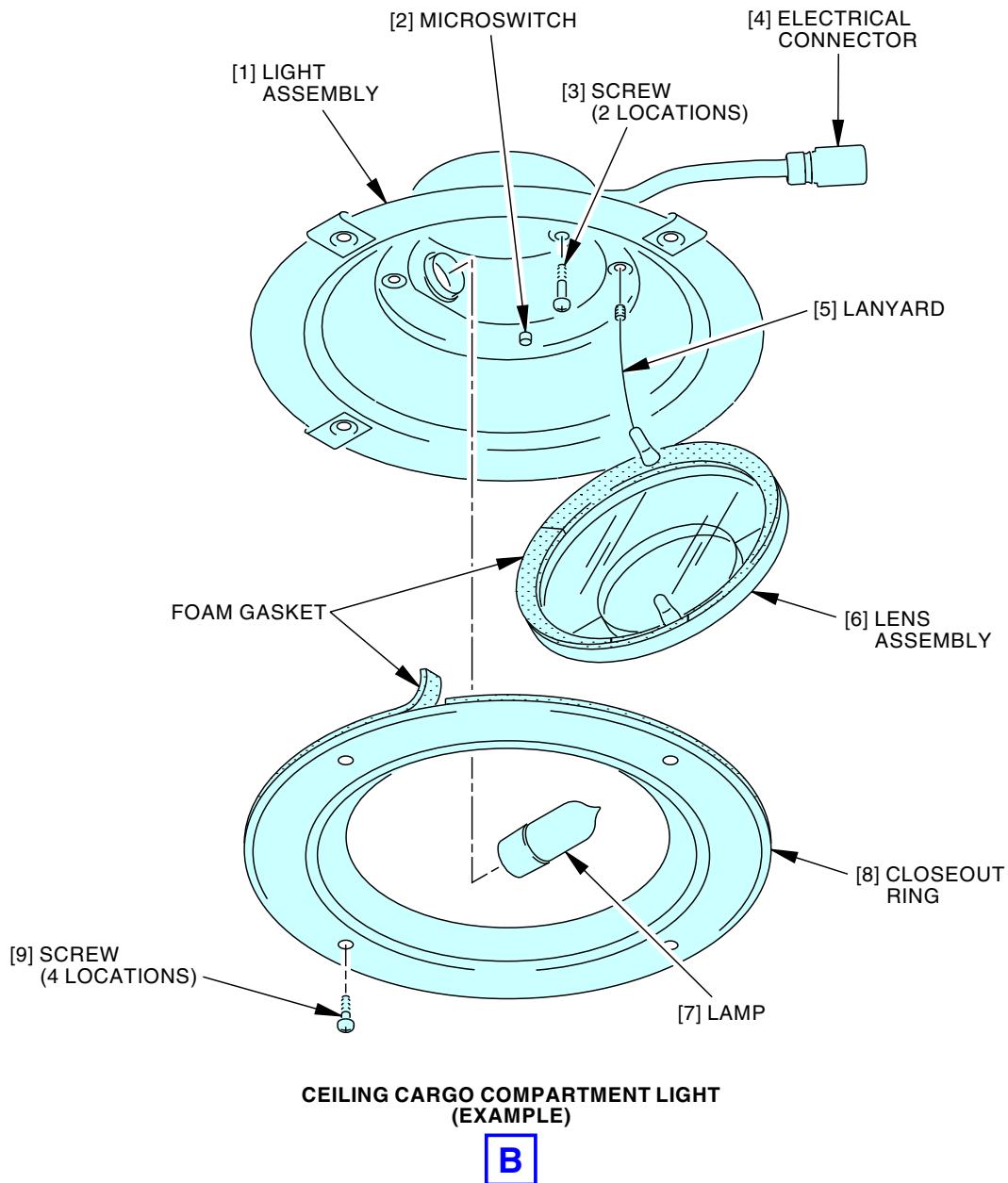
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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Cargo Compartment Light - Lamp/Light/Lens Assembly Replacement  
Figure 202/33-36-00-990-802 (Sheet 2 of 3)

EFFECTIVITY  
LOM 402, 404

**33-36-00**

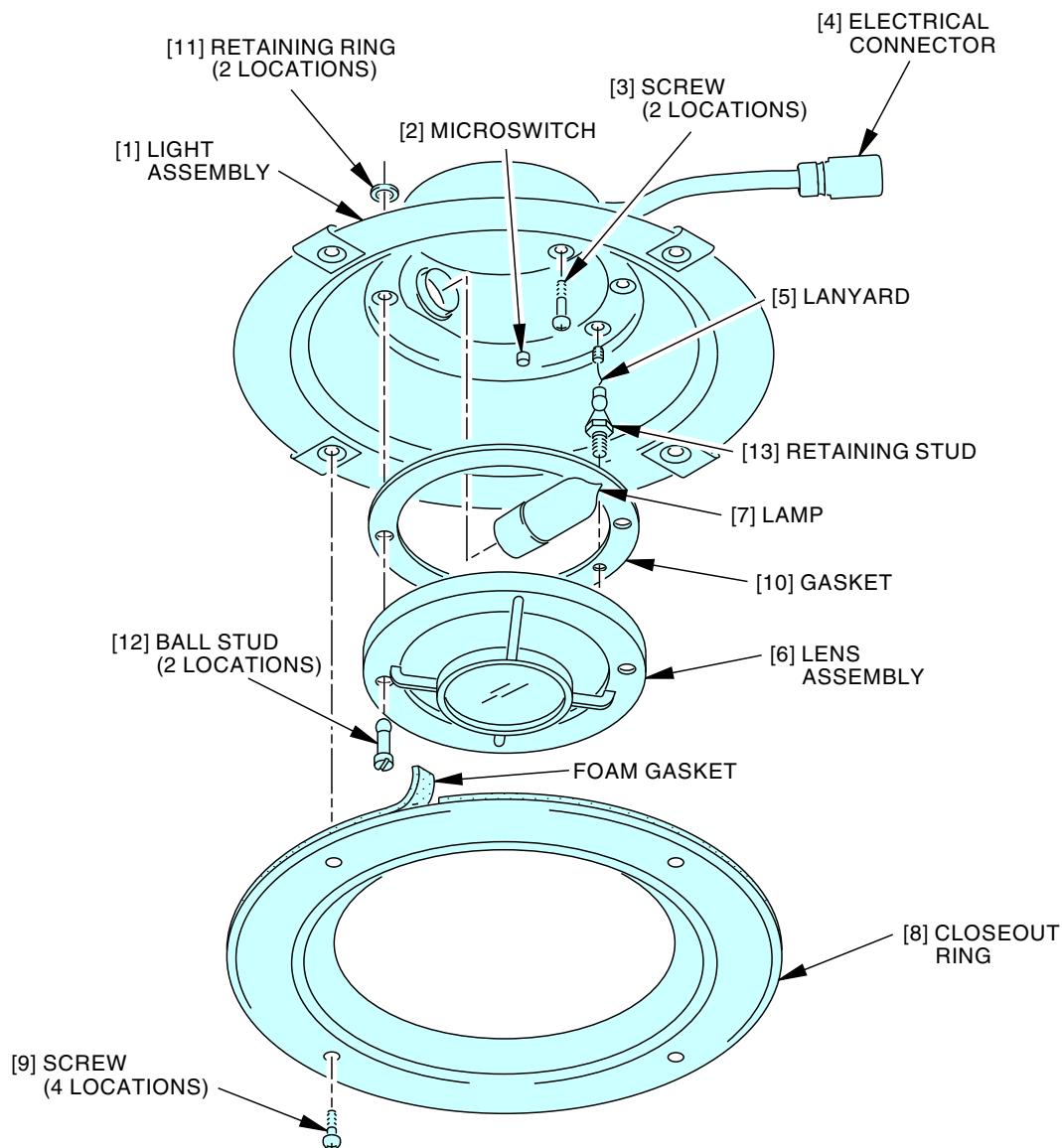
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CEILING CARGO COMPARTMENT LIGHT  
(EXAMPLE)

B

2372849 S0000543229\_V4

Cargo Compartment Light - Lamp/Light/Lens Assembly Replacement  
Figure 202/33-36-00-990-802 (Sheet 3 of 3)

EFFECTIVITY  
LOM 406, 407, 411, 412, 415, 416, 420, 422-434,  
437-447, 450-459

**33-36-00**

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LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459 (Continued)

**TASK 33-36-00-960-802**

**5. Cargo Compartment Light - Lamp Replacement, Door**  
(Figure 203)

**A. References**

Reference	Title
WDM 33-36-11	Wiring Diagram Manual
WDM 33-36-12	Wiring Diagram Manual

**B. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
9	Lamp	33-36-00-16-040	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459

**C. Location Zones**

Zone	Area
122	Forward Cargo Compartment - Right
142	Aft Cargo Compartment - Right

**D. Access Panels**

Number	Name/Location
821	Forward Cargo Door
822	Aft Cargo Door

**E. Cargo Compartment Light - Lamp Replacement, Door**

SUBTASK 33-36-00-940-001

- (1) Set up the safety equipment.

SUBTASK 33-36-00-010-002

- (2) Open the applicable cargo door:

Number	Name/Location
821	Forward Cargo Door
822	Aft Cargo Door

SUBTASK 33-36-00-960-002

- (3) Do these steps to replace the lamp (WDM 33-36-11)(WDM 33-36-12):

- (a) Set the switch for the light to the off mode.

NOTE: The switch is near the bottom of the cargo door frame.

- (b) Replace the lamp [9].

SUBTASK 33-36-00-710-002

- (4) Do a test of the new lamp.

- (a) Set the switch for the light to the on mode.

1) Make sure that the lamp comes on.

- (b) Set the switch to the off mode.

1) Make sure that the lamp goes off.

EFFECTIVITY  
LOM ALL

**33-36-00**



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

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459 (Continued)**

SUBTASK 33-36-00-410-002

- (5) Close the applicable cargo door:

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

SUBTASK 33-36-00-940-002

- (6) Remove the safety equipment.

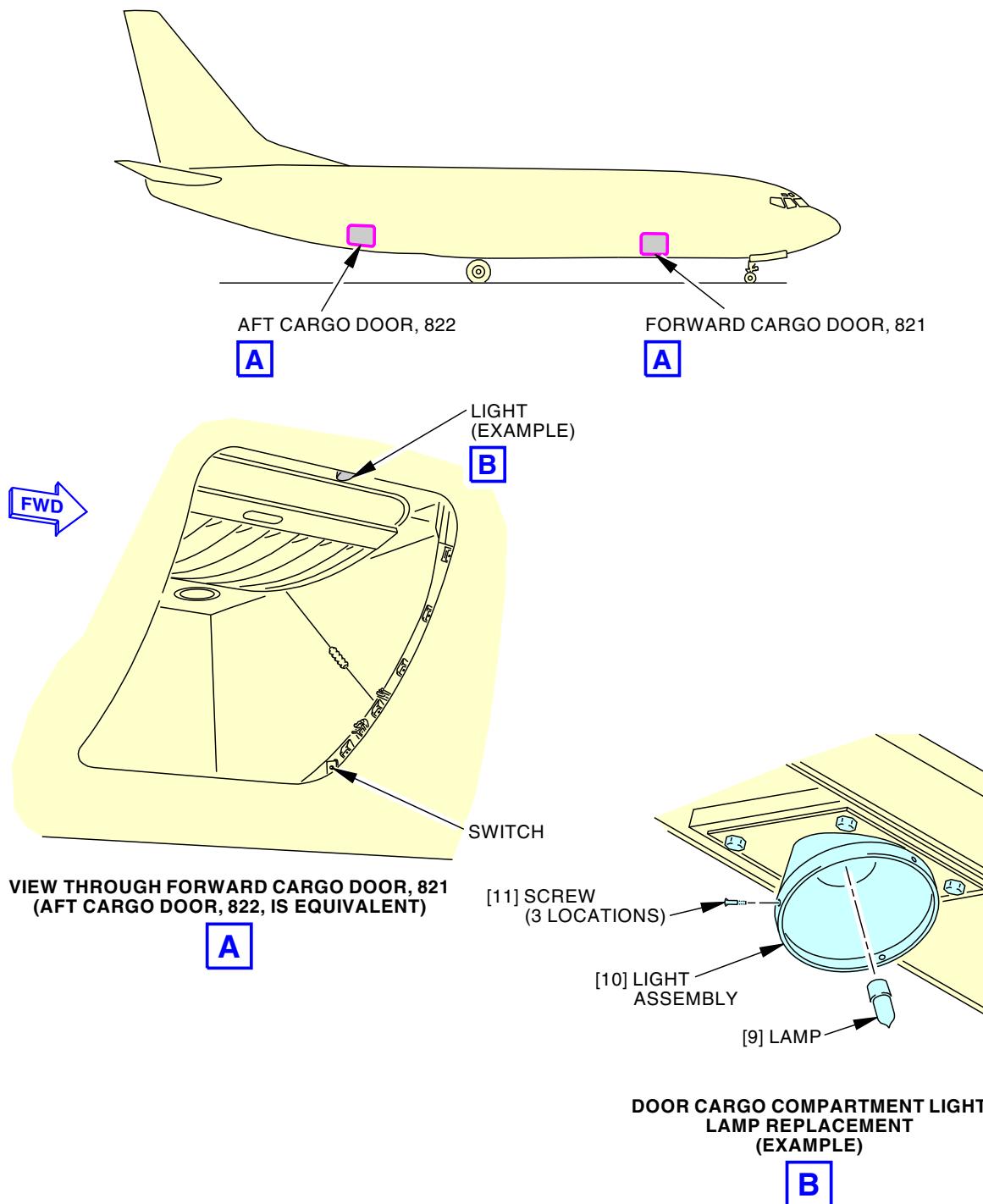
———— END OF TASK ————

EFFECTIVITY  
**LOM ALL**

**33-36-00**



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



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**Cargo Compartment Light - Lamp Replacement**  
Figure 203/33-36-00-990-806

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-459

**33-36-00**

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LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459 (Continued)

**TASK 33-36-00-960-803**

**6. Cargo Compartment Light - Light Assembly Replacement, Ceiling**  
(Figure 202)

**A. References**

<b>Reference</b>	<b>Title</b>
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove 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)
WDM 33-36-11	Wiring Diagram Manual
WDM 33-36-12	Wiring Diagram Manual

**B. Consumable Materials**

<b>Reference</b>	<b>Description</b>	<b>Specification</b>
B00634	Solvent - Stabilized Limonene Cleaner	BMS11-10 Type 1, 2, or 3
B50276	Cleaner - Aqueous - ArmaKleen M-HP-2	MIL-C-29602 TYPE I
G50360	Seal - Closed Cell Silicone Foam Rubber, Hydraulic Fluid Resistant (with Adhesive)	BMS1-68 Grade A Form III

**C. Expendables/Parts**

<b>AMM Item</b>	<b>Description</b>	<b>AIPC Reference</b>	<b>AIPC Effectivity</b>
1	Light assembly	33-36-00-11-025	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459
		33-36-00-11-075	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459
		33-36-00-12-025	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459
		33-36-00-17-030	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459
7	Lamp	33-36-00-15-010	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459

**D. Location Zones**

<b>Zone</b>	<b>Area</b>
118	Electrical and Electronics Compartment - Right



**33-36-00**



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AIRCRAFT MAINTENANCE MANUAL**

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459 (Continued)**

(Continued)

<b>Zone</b>	<b>Area</b>
121	Forward Cargo Compartment - Left
122	Forward Cargo Compartment - Right
141	Aft Cargo Compartment - Left
142	Aft Cargo Compartment - Right

**E. Access Panels**

<b>Number</b>	<b>Name/Location</b>
117A	Electronic Equipment Access Door
821	Forward Cargo Door
822	Aft Cargo Door

**F. Cargo Compartment Light Assembly Replacement, Ceiling**

SUBTASK 33-36-00-010-003

- (1) To get access to the P92 panel, open this access panel:

**Number      Name/Location**

117A      Electronic Equipment Access Door

SUBTASK 33-36-00-860-005

 <b>WARNING</b>	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.
--	--

 <b>WARNING</b>	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) (WDM 33-36-11) (WDM 33-36-12)

Open the applicable circuit breaker and install the safety tag:

**Power Distribution Panel Number 2, P92**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
C	4	C00127	CARGO COMPT LT-FWD
C	5	C00128	CARGO COMPT LT-AFT

SUBTASK 33-36-00-010-004

- (3) Open the applicable cargo door:

**Number      Name/Location**

821      Forward Cargo Door  
822      Aft Cargo Door

SUBTASK 33-36-00-010-008

- (4) Remove the lamp assembly closeout ring [8] by removing the four attachment screws [9].

EFFECTIVITY  
LOM ALL

**33-36-00**



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

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459 (Continued)**

SUBTASK 33-36-00-000-001

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

SUBTASK 33-36-00-960-003

- (6) Do these steps to replace the light assembly:

- (a) Disconnect the electrical connector [4].

**LOM 402, 404**

- (b) For the light assembly [1], turn two ball studs [12] one-quarter turn and pull the lens assembly [6] away from housing assembly to length of electrical wires, but do not remove the lanyard [5].

**LOM 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459**

- (c) For the light assembly [1], turn two ball studs [12] one-quarter turn and pull the lens assembly [6] away from housing assembly to length of electrical wires, but do not remove the retaining stud [13].

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459**

- (d) Remove the screws [3] in the top of the light assembly.  
1) For access to the screws, remove the lamp [7].  
(e) Replace the light assembly [1].  
(f) Install the screws [3].  
(g) Install a new lamp [7].

**LOM 402, 404**

- (h) Replace the lens:  
1) If the foam gasket or the reformed gasket on the lens assembly is worn or missing, before pushing the lens back into place, replace or repair the gasket as follows:  
a) Remove any worn pieces of foam gasket and clean the area with Limonene solvent, B00634.  
b) Cut sufficient lengths of seal, G50360, to create a foam gasket surface completely around the mating edge of the lens assembly [6].  
c) Press the foam gasket sections into place and trim to fit.  
2) For the light assembly [1], position two ball studs [12] on the lens assembly [6] and attach with two retaining rings [11].

**LOM 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459**

- (i) Examine the lens assembly [6] as follows:  
1) If the gasket [10] on the lens assembly is damaged or missing, install a new gasket [10]:  
a) Remove and keep the two retaining rings [11] and ball studs [12].  
b) Remove gasket [10].  
c) Clean the area on the lens assembly [6] with ArmaKleen M-HP-2 cleaner, B50276.  
d) Put a new gasket on the lens assembly [6] and install the kept ball studs [12] and the two retaining rings [11].

EFFECTIVITY  
**LOM ALL**

**33-36-00**



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**LOM 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459 (Continued)**

- 2) For the light assembly [1], position two ball studs [12] on the lens assembly [6] and attach with two retaining rings [11].

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459**

- (j) Connect the electrical connector [4].

SUBTASK 33-36-00-860-006

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

SUBTASK 33-36-00-860-007



**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.

- (8) Remove the safety tag and close the applicable circuit breaker:

**Power Distribution Panel Number 2, P92**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	4	C00127	CARGO COMPT LT-FWD
C	5	C00128	CARGO COMPT LT-AFT

SUBTASK 33-36-00-410-003

- (9) Close this access panel:

Number      Name/Location

117A            Electronic Equipment Access Door

SUBTASK 33-36-00-710-003

- (10) Do a test of the new light assembly.

- (a) If the light does not come on when the circuit breakers are closed, set the switch for the light to the on mode.

NOTE: The switch is near the bottom of the cargo door frame.

- 1) Make sure the light comes on.

- (b) Set the switch to the off mode.

- 1) Make sure the light goes off.

SUBTASK 33-36-00-400-001

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

SUBTASK 33-36-00-410-008

- (12) Replace the closeout ring [8]:

EFFECTIVITY  
LOM ALL

**33-36-00**



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

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459 (Continued)**

- (a) If the foam gasket around the perimeter of the closeout ring [8] facing the ceiling panel is worn or missing, before attaching it, replace or repair the gasket as follows:
  - 1) Remove any worn pieces of foam gasket and clean the area with Limonene solvent, B00634.
  - 2) Cut sufficient lengths of seal, G50360 to create a foam gasket surface completely around the edge of the closeout ring [8].
  - 3) Press the foam gasket sections into place and trim to fit.



**DO NOT COVER THE CLOSEOUT-RING OR LENS WITH TAPE, PAPER, PLASTIC, AND OTHER ITEMS. IF YOU DO, IT CAN CAUSE THE LIGHT TO BECOME TOO HOT.**

- (b) Attach the closeout ring [8] using the four screws [9].

SUBTASK 33-36-00-410-004

- (13) Close the applicable cargo door:

**Number      Name/Location**

821	Forward Cargo Door
822	Aft Cargo Door

SUBTASK 33-36-00-860-008

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

———— END OF TASK ————

**TASK 33-36-00-960-804**

**7. Cargo Compartment Light - Incandescent Light Assembly Replacement, Door**  
(Figure 204)

**A. References**

<b>Reference</b>	<b>Title</b>
WDM 33-36-11	Wiring Diagram Manual
WDM 33-36-12	Wiring Diagram Manual

**B. Expendables/Parts**

<b>AMM Item</b>	<b>Description</b>	<b>AIPC Reference</b>	<b>AIPC Effectivity</b>
20	Light assembly	33-36-00-11-070	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459
		33-36-00-17-020	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459

**C. Location Zones**

<b>Zone</b>	<b>Area</b>
118	Electrical and Electronics Compartment - Right
122	Forward Cargo Compartment - Right



**33-36-00**



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

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459 (Continued)**

(Continued)

**Zone      Area**

142      Aft Cargo Compartment - Right

**D. Access Panels**

**Number      Name/Location**

117A      Electronic Equipment Access Door

821      Forward Cargo Door

822      Aft Cargo Door

**E. Cargo Compartment Light Incandescent Light Assembly Replacement, Door**

SUBTASK 33-36-00-010-005

- (1) To get access to the P92 panel, open this access panel:

**Number      Name/Location**

117A      Electronic Equipment Access Door

SUBTASK 33-36-00-860-009



**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.

- (2) (WDM 33-36-11) (WDM 33-36-12)

Open the applicable circuit breakers and install the safety tag:

**Power Distribution Panel Number 2, P92**

**Row      Col      Number      Name**

C      4      C00127      CARGO COMPT LT-FWD

C      5      C00128      CARGO COMPT LT-AFT

SUBTASK 33-36-00-940-003

- (3) Set up the safety equipment.

SUBTASK 33-36-00-010-006

- (4) Open the applicable cargo door:

**Number      Name/Location**

821      Forward Cargo Door

822      Aft Cargo Door

SUBTASK 33-36-00-960-004

- (5) Do these steps to replace the light assembly [20] on the forward cargo compartment door sill:

EFFECTIVITY  
LOM ALL

**33-36-00**



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

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459 (Continued)**

- (a) Remove the screws [22].
- (b) Pull the light assembly [20], gasket [24], and spacers [23] away from the door sill.
- (c) Move the sleeve [25] away to disconnect the electrical wire [26].
- (d) Put identification tags on the electrical wire [26] and electrical wire [27].
- (e) Disconnect the electrical wire [26] and electrical wire [27].
- (f) Remove the sleeve [25] from the electrical wire [26].
- (g) Remove the gasket [24] and spacers [23] from the light assembly [20].
- (h) Replace the light assembly [20].
- (i) Remove the sleeve [25] from the new light assembly [20].
- (j) Route the electrical wire [26] through the sleeve [25].
- (k) Put the gasket [24] between the light assembly [20] and door sill.
  - 1) Align mounting holes on the door sill and gasket [24].
- (l) Connect the electrical wire [26] and electrical wire [27] to the light assembly [20].
- (m) Remove identification tags from the electrical wire [26] and electrical wire [27].
- (n) Move the sleeve [25] back to its initial position on the light assembly [20].
- (o) Insert spacers [23] into the mounting holes of the gasket [24].
- (p) Install the screws [22] to attach the light assembly [20] to the door sill.

SUBTASK 33-36-00-960-016

- (6) Do these steps to replace the light assembly [20] on the aft cargo compartment door sill:
  - (a) Remove the screws [21].
  - (b) Pull the light assembly [20] away from the door sill.
  - (c) Move the sleeve [25] away to disconnect the electrical wire [26].
  - (d) Put identification tags on the electrical wire [26] and electrical wire [27].
  - (e) Disconnect the electrical wire [26] and electrical wire [27].
  - (f) Remove the sleeve [25] from the electrical wire [26].
  - (g) Replace the light assembly [20].
  - (h) Remove the sleeve [25] from the new light assembly [20].
  - (i) Route the electrical wire [26] through the sleeve [25].
  - (j) Connect the electrical wire [26] and electrical wire [27] to the light assembly [20].
  - (k) Remove identification tags from the electrical wire [26] and electrical wire [27].
  - (l) Move the sleeve [25] back to its initial position on the light assembly [20].
  - (m) Install the screws [21] to attach the light assembly [20] to the door sill.

EFFECTIVITY  
LOM ALL

**33-36-00**



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

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459 (Continued)

SUBTASK 33-36-00-860-011



**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.

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

**Power Distribution Panel Number 2, P92**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	4	C00127	CARGO COMPT LT-FWD
C	5	C00128	CARGO COMPT LT-AFT

SUBTASK 33-36-00-410-005

- (8) Close this access panel:

Number      Name/Location

117A            Electronic Equipment Access Door

SUBTASK 33-36-00-710-004

- (9) Do a test of the light assembly [20].

- (a) If the light does not come on when the circuit breaker is closed, set the switch for the light to the on mode.

NOTE: The switch is near the bottom of the cargo door frame.

- 1) Make sure that the light comes on.

- (b) Set the switch to the off mode.

- 1) Make sure that the light goes off.

SUBTASK 33-36-00-410-006

- (10) Close the applicable cargo door:

Number      Name/Location

821            Forward Cargo Door

822            Aft Cargo Door

SUBTASK 33-36-00-940-004

- (11) Remove the safety equipment.

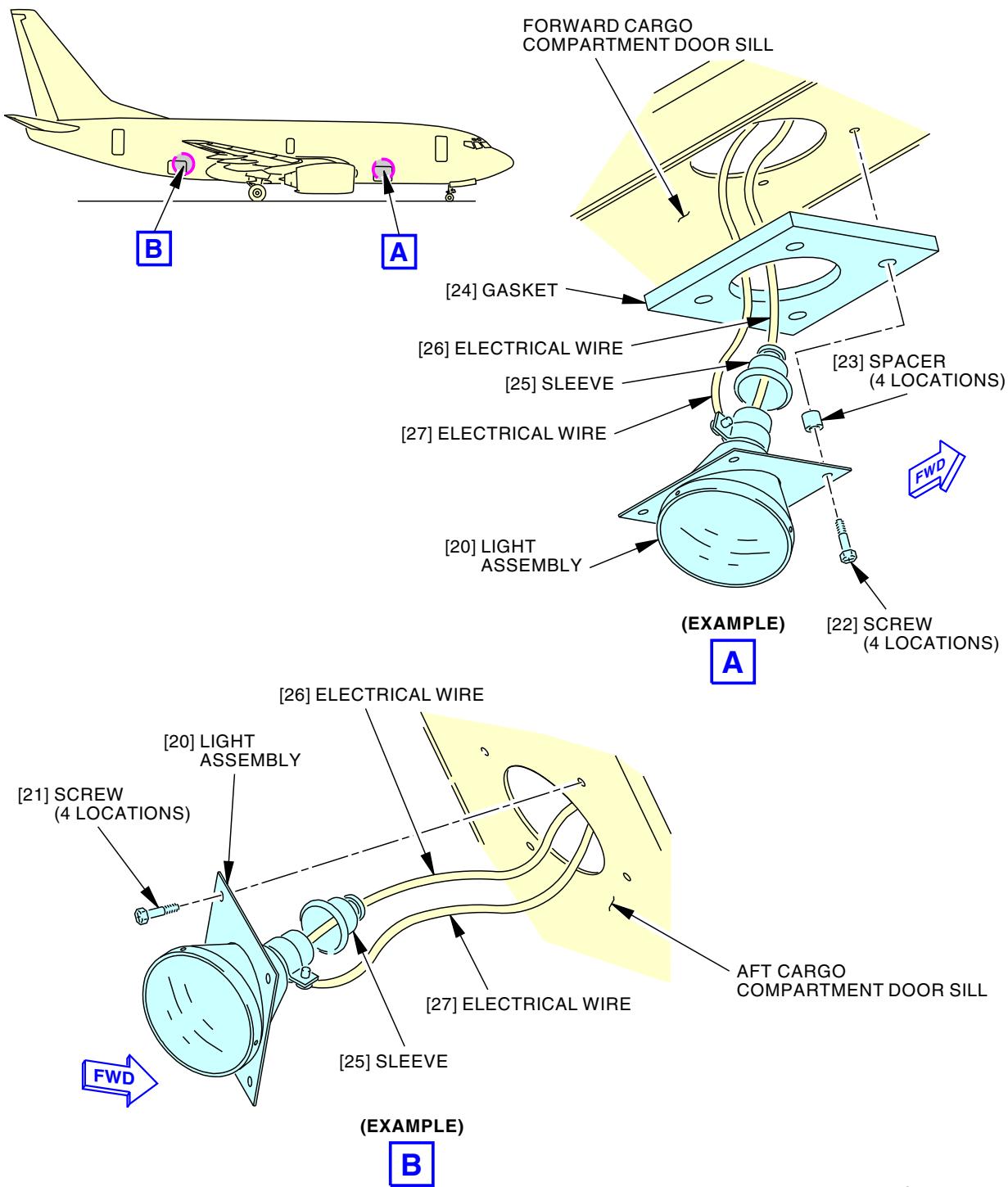
———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-36-00**



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



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Cargo Compartment Door Light Replacement  
Figure 204/33-36-00-990-812

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-459

**33-36-00**

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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, 450-459 (Continued)

**TASK 33-36-00-960-805**

**8. Cargo Compartment Light - Lens Assembly Replacement, Ceiling**  
(Figure 202)

**A. References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
WDM 33-36-11	Wiring Diagram Manual
WDM 33-36-12	Wiring Diagram Manual

**B. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
6	Lens assembly	33-36-00-15-015	LOM 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459

**C. Location Zones**

Zone	Area
121	Forward Cargo Compartment - Left
122	Forward Cargo Compartment - Right
141	Aft Cargo Compartment - Left
142	Aft Cargo Compartment - Right

**D. Access Panels**

Number	Name/Location
821	Forward Cargo Door
822	Aft Cargo Door

**E. Procedure**

SUBTASK 33-36-00-860-013

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

SUBTASK 33-36-00-010-007

- (2) Open the applicable cargo door:

Number	Name/Location
821	Forward Cargo Door
822	Aft Cargo Door

SUBTASK 33-36-00-960-005

- (3) Do these steps to replace the lens assembly (WDM 33-36-11) (WDM 33-36-12):

**LOM 402, 404**

- (a) Pull off the lens assembly [6].

NOTE: Each light assembly [1] has a microswitch [2] which sets the light to the off mode when the lens assembly [6] is removed.

EFFECTIVITY  
LOM ALL

**33-36-00**



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

**LOM 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459**

- (b) Turn two ball studs [12] one-quarter turn and pull the lens assembly [6] away from the light assembly [1] to the length of the electrical wires.

NOTE: Each light assembly [1] has a microswitch [2] which sets the light to the off mode when the lens assembly [6] is removed.

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459**

- (c) Disconnect the lanyard [5] from the light assembly [1].

NOTE: The lens assembly stays attached to the lanyard [5].

- (d) Replace the lens assembly [6] and the lanyard [5].

NOTE: A new lanyard [5] will be attached to the new lens assembly [6].

**LOM 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459**

NOTE: The lanyard [5] is part of the retaining stud [13]

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459**

- (e) Connect the new lanyard [5] to the light assembly [1].

**LOM 402, 404**

- (f) Push the new lens assembly [6] into its position.

**LOM 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459**

- (g) Put the new lens assembly [6] on the light assembly [1] and turn two ball studs [12] one-quarter turn to attach.

- 1) Make sure that the gasket [10] is installed or correctly put into the new lens assembly [6] before installation.

NOTE: The gasket [10] is part of the lens assembly [6].

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-459**

SUBTASK 33-36-00-710-005

- (4) Do a test of the lens assembly.

- (a) If the lamp does not come on when the lens assembly is replaced, set the switch for the light to the on mode.

NOTE: The switch is near the bottom of the cargo door frame.

- 1) Make sure the lamp comes on.

- (b) Set the switch to the off mode.

- 1) Make sure the lamp goes off.

SUBTASK 33-36-00-410-007

- (5) Close the applicable cargo door:

**Number      Name/Location**

821            Forward Cargo Door

822            Aft Cargo Door

SUBTASK 33-36-00-860-014

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

———— END OF TASK ————

**LOM 460-999**

EFFECTIVITY  
LOM ALL

**33-36-00**



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AIRCRAFT MAINTENANCE MANUAL

LOM 460-999 (Continued)

**TASK 33-36-00-960-806**

- 9. Cargo Compartment Light - LED Light Assembly Replacement, Ceiling**  
(Figure 205)

**A. References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
WDM 33-36-11	Wiring Diagram Manual
WDM 33-36-12	Wiring Diagram Manual

**B. Location Zones**

Zone	Area
118	Electrical and Electronics Compartment - Right
121	Forward Cargo Compartment - Left
122	Forward Cargo Compartment - Right
141	Aft Cargo Compartment - Left
142	Aft Cargo Compartment - Right

**C. Access Panels**

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

**D. Cargo Compartment Light LED Light Assembly Replacement, Ceiling**

SUBTASK 33-36-00-010-011

- (1) To get access to the P92 panel, open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 33-36-00-860-017



**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) (WDM 33-36-11) (WDM 33-36-12)



**33-36-00**



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AIRCRAFT MAINTENANCE MANUAL

LOM 460-999 (Continued)

Open the applicable circuit breaker and install the safety tag:

**Power Distribution Panel Number 2, P92**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	4	C00127	CARGO COMPT LT-FWD
C	5	C00128	CARGO COMPT LT-AFT

SUBTASK 33-36-00-010-012

- (3) Open the applicable cargo door:

Number    Name/Location

821	Forward Cargo Door
822	Aft Cargo Door

SUBTASK 33-36-00-010-013

- (4) Do these steps to remove the close out ring assembly [4]:

- Remove the three screws [2] that attach the close out ring assembly [4] to the ceiling panel.
- Remove the close out ring assembly [4].

SUBTASK 33-36-00-960-006

- (5) Do these steps to replace the LED light assembly [1]:

- Remove the screws [3] that attach the LED light assembly [1] to the bracket.
- Disconnect the electrical connectors.
- Replace the LED light assembly [1].
- Connect the electrical connectors.
- Install the screws [3].

SUBTASK 33-36-00-860-018

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

SUBTASK 33-36-00-860-019



**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.



**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 tag and close the applicable circuit breaker:

**Power Distribution Panel Number 2, P92**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	4	C00127	CARGO COMPT LT-FWD

EFFECTIVITY  
LOM ALL

**33-36-00**



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

LOM 460-999 (Continued)

(Continued)

**Power Distribution Panel Number 2, P92**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	5	C00128	CARGO COMPT LT-AFT

SUBTASK 33-36-00-410-010

- (8) Close this access panel:

**Number      Name/Location**

117A      Electronic Equipment Access Door

SUBTASK 33-36-00-710-006

- (9) Do a test of the new light assembly.

- (a) If the light does not come on when the circuit breakers are closed, set the switch for the light to the on mode.

NOTE: The switch is near the bottom of the cargo door frame.

- 1) Make sure the light comes on.

- (b) Set the switch to the off mode.

- 1) Make sure the light goes off.

SUBTASK 33-36-00-410-012

- (10) Install the close out ring assembly [4].

- (a) Install the screws [2].

SUBTASK 33-36-00-410-013

- (11) Close the applicable cargo door:

**Number      Name/Location**

821      Forward Cargo Door

822      Aft Cargo Door

SUBTASK 33-36-00-860-020

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

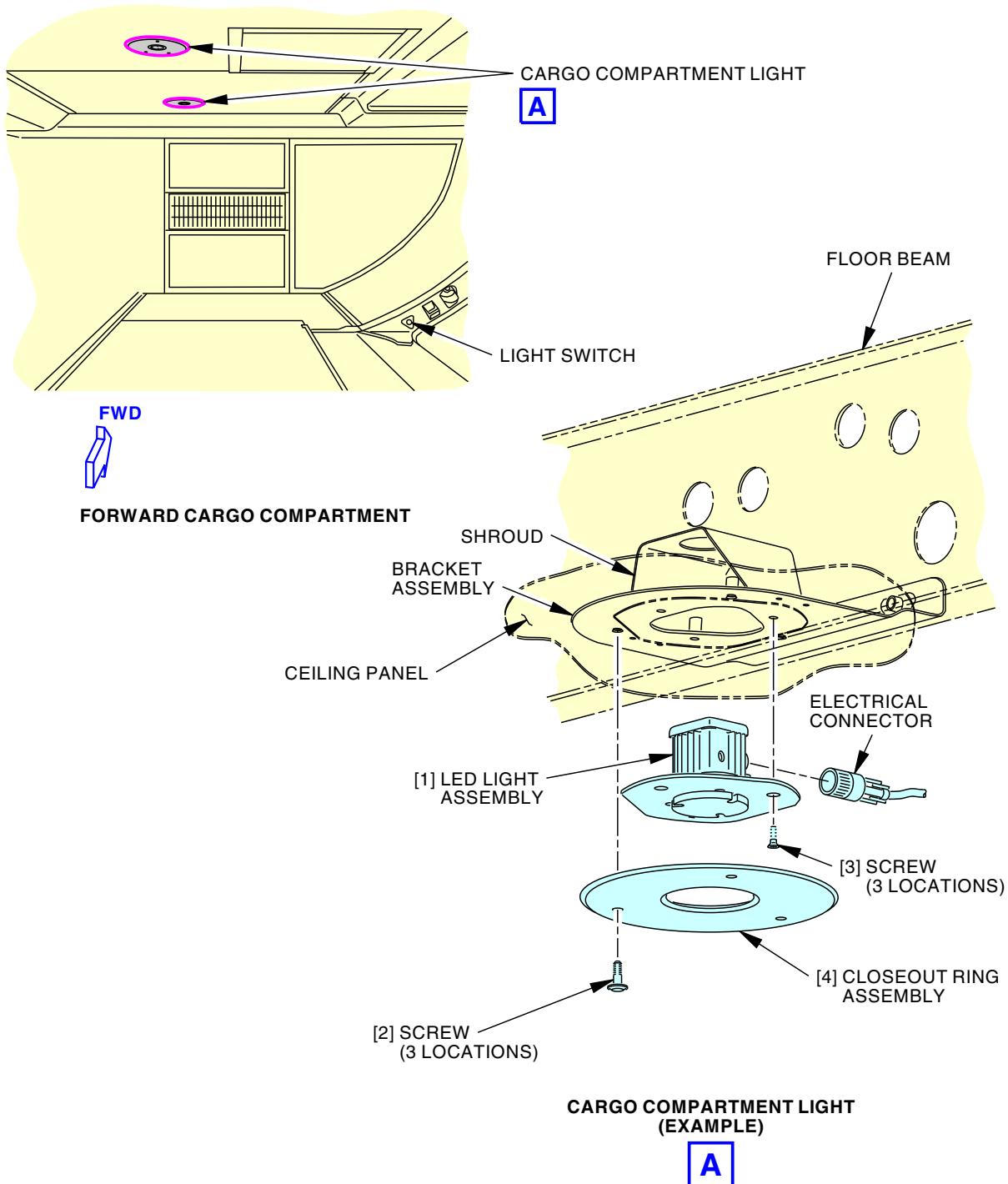
———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-36-00**



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AIRCRAFT MAINTENANCE MANUAL



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**Cargo Compartment Light - LED Light Assembly Replacement**  
Figure 205/33-36-00-990-804

EFFECTIVITY  
LOM 460-999

**33-36-00**

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LOM 460-999 (Continued)

**TASK 33-36-00-960-807**

**10. Cargo Compartment Light - LED Light Assembly Replacement, Door**  
(Figure 206)

**A. References**

Reference	Title
WDM 33-36-11	Wiring Diagram Manual
WDM 33-36-12	Wiring Diagram Manual

**B. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
30	LED light assembly	33-36-00-17A-025	LOM 460-999
		33-36-00-19-100	LOM 460-999

**C. Location Zones**

Zone	Area
118	Electrical and Electronics Compartment - Right
122	Forward Cargo Compartment - Right
142	Aft Cargo Compartment - Right

**D. Access Panels**

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

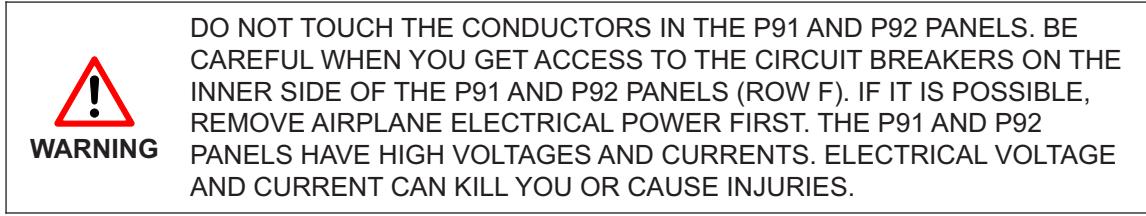
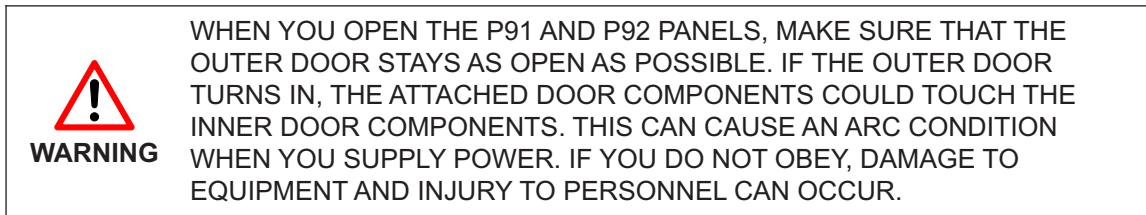
**E. Cargo Compartment Light LED Light Assembly Replacement, Door**

SUBTASK 33-36-00-010-015

- (1) To get access to the P92 panel, open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 33-36-00-860-021



- (2) (WDM 33-36-11) (WDM 33-36-12)



**33-36-00**



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

**LOM 460-999 (Continued)**

Open the applicable circuit breakers and install the safety tag:

**Power Distribution Panel Number 2, P92**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	4	C00127	CARGO COMPT LT-FWD
C	5	C00128	CARGO COMPT LT-AFT

SUBTASK 33-36-00-860-022

- (3) Set up the safety equipment.

SUBTASK 33-36-00-010-016

- (4) Open the applicable cargo door:

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

SUBTASK 33-36-00-900-001

- (5) Do these steps to replace the LED light assembly [30] on the forward cargo compartment door sill:

- (a) Remove the screws [2] and washers [3] from the LED light assembly [30].
- (b) Remove the LED light assembly [30], gasket [4], and spacers [5] from the door frame.
- (c) Put identification tags on each electrical connector.
- (d) Disconnect the electrical connectors.
- (e) Remove the gasket [4] and spacers [5] from the LED light assembly [30].
- (f) Replace the LED light assembly [30].
- (g) Put the gasket [4] between the LED light assembly [30] and the door panel with the cutout and mounting holes aligned.
- (h) Connect the electrical connectors to the new LED light assembly [30].
- (i) Remove identification tags from the electrical connectors.
- (j) Insert spacers [5] into the gasket mounting holes.
- (k) Install the washers [3] and screws [2] to attach the LED light assembly [30] and gasket [4] to the door frame.

SUBTASK 33-36-00-900-002

- (6) Do these steps to replace the LED light assembly [30] on the aft cargo compartment door sill:

- (a) Remove the screws [2] and washers [3] on the LED light assembly [30].
- (b) Remove the LED light assembly [30] from the door frame.
- (c) Put identification tags on each electrical connector.
- (d) Disconnect the electrical connectors.
- (e) Replace the LED light assembly [30].
- (f) Connect the electrical connectors to the new LED light assembly [30].
- (g) Remove identification tags from the electrical connectors.
- (h) Install the washers [3] and screws [2] to attach the LED light assembly [30] to the door frame.

EFFECTIVITY  
LOM ALL

**33-36-00**



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

LOM 460-999 (Continued)

SUBTASK 33-36-00-860-024



**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 tag and close the applicable circuit breaker:

**Power Distribution Panel Number 2, P92**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	4	C00127	CARGO COMPT LT-FWD
C	5	C00128	CARGO COMPT LT-AFT

SUBTASK 33-36-00-410-014

- (8) Close this access panel:

Number      Name/Location

117A            Electronic Equipment Access Door

SUBTASK 33-36-00-710-007

- (9) Do a test of the new light assembly.

- (a) If the light does not come on when the circuit breaker is closed, set the switch for the light to the on mode.

NOTE: The switch is near the bottom of the cargo door frame.

- 1) Make sure that the light comes on.

- (b) Set the switch to the off mode.

- 1) Make sure that the light goes off.

SUBTASK 33-36-00-410-015

- (10) Close the applicable cargo door:

Number      Name/Location

821            Forward Cargo Door

822            Aft Cargo Door

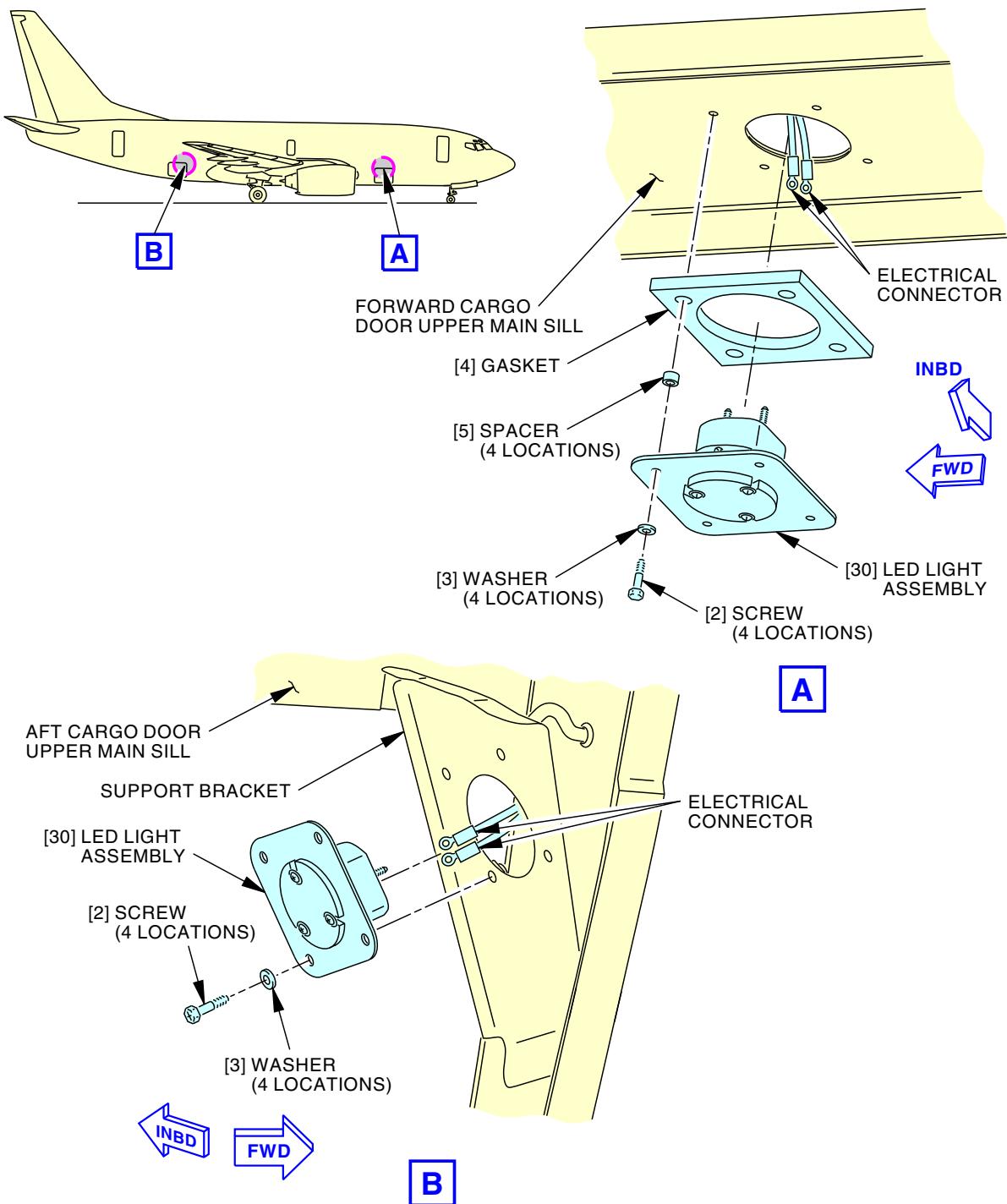
SUBTASK 33-36-00-860-025

- (11) Remove the safety equipment.

———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-36-00**



2403287 S0000555005\_V2

**Cargo Compartment Light - Door Sill LED Light Assembly Replacement**  
**Figure 206/33-36-00-990-805**

EFFECTIVITY  
**LOM 460-999**

**33-36-00**

D633A101-LOM



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

WING ILLUMINATION LIGHTS - MAINTENANCE PRACTICES

**1. General**

- A. This procedure has these tasks:
- (1) Wing Illumination Light Deactivation
  - (2) Wing Illumination Light Activation

**LOM ALL; AIRPLANES WITH WING ILLUMINATION LAMP LIGHTS**

- (3) Wing Illumination Light - Lamp Replacement

**LOM ALL; AIRPLANES WITH WING ILLUMINATION LED MODULE ASSEMBLY LIGHTS**

- (4) Wing Illumination Light - LED Module Replacement

**LOM ALL**

- (5) Wing Illumination Light - Transformer Replacement
- (6) Wing Illumination Light - Light Assembly Replacement
- (7) Wing Illumination Lights - Operational Test

**TASK 33-41-00-040-801**

**2. Wing Illumination Light - Deactivation**

(Figure 201)

**A. General**

- (1) This procedure removes electrical power from the wing illumination lights.

**B. Location Zones**

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right
511	Left Wing - Leading Edge To Front Spar
611	Right Wing - Leading Edge to Front Spar

**C. Procedure**

SUBTASK 33-41-00-860-013

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

**CAPT Electrical System Panel, P18-3**

Row	Col	Number	Name
A	14	C00110	EXTERIOR LIGHTING WING SCAN

**D. Wing Illumination Light - Tryout**

NOTE: This tryout is to make sure the Wing Illumination light is in a zero energy state..

SUBTASK 33-41-00-200-001

- (1) Do the following steps to make sure the power has been removed:
  - (a) At the overhead panel, P5, set the wing light switch to the ON Position
  - (b) Make sure the wing lights are off.

———— END OF TASK ————

EFFECTIVITY  
**LOM ALL**

**33-41-00**



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**TASK 33-41-00-440-801**

**3. Wing Illumination Light - Activation**

(Figure 201)

**A. General**

- (1) This procedure adds electrical power to the wing illumination lights.

**B. Location Zones**

<u>Zone</u>	<u>Area</u>
211	Flight Compartment - Left
212	Flight Compartment - Right
511	Left Wing - Leading Edge To Front Spar
611	Right Wing - Leading Edge to Front Spar

**C. Procedure**

SUBTASK 33-41-00-860-014

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

**CAPT Electrical System Panel, P18-3**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	14	C00110	EXTERIOR LIGHTING WING SCAN

————— END OF TASK ————

LOM ALL; AIRPLANES WITH WING ILLUMINATION LAMP LIGHTS

**TASK 33-41-00-960-801**

**4. Wing Illumination Light - Lamp Replacement**

(Figure 201)

**A. References**

<u>Reference</u>	<u>Title</u>
WDM 33-41-11	Wiring Diagram Manual

**B. Consumable Materials**

<u>Reference</u>	<u>Description</u>	<u>Specification</u>
G01306	Gloves - Lint-free	
G02309	Material - Moldable Plastic Shim	BMS8-338

**C. Location Zones**

<u>Zone</u>	<u>Area</u>
230	Subzone - Passenger Compartment - Body Station 360.00 to 663.75

**D. Wing Illumination Light Lamp Replacement**

SUBTASK 33-41-00-860-001

- (1) Open this circuit breaker and install safety tag:  
(WDM 33-41-11)

**CAPT Electrical System Panel, P18-3**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	14	C00110	EXTERIOR LIGHTING WING SCAN



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**LOM ALL; AIRPLANES WITH WING ILLUMINATION LAMP LIGHTS (Continued)**

SUBTASK 33-41-00-960-001

- (2) Do these steps to replace the lamp :

NOTE: Do not touch the new lamp with your hands. Use lint-free gloves, G01306.

- (a) Loosen the screws [6] and remove the lens assembly [2].

NOTE: The lanyard stays connected.

- (b) Pull and hold the retainer [7] to release the socket.

- (c) Replace the lamp [1].

1) Remove the lamp [1] from the electrical connector/socket.

2) Insert the new lamp [1] into the electrical connector/socket.

- (d) If the shims on the lens gasket are damaged, replace them.

1) Remove the unwanted shim material.

2) Apply new shim material, G02309, in the applicable areas of the rubber gasket.

NOTE: Use only the quantity necessary. Adjacent compartments in the rubber gasket will help contain the shim material. Keep shim material away from the lens fasteners.

3) Install the lens and tighten the fasteners until the lens is aligned with the fuselage.

4) Let the shim material dry for six hours.

5) Remove the lens.

6) Clean and examine the shims.

a) Make sure that shim thickness is no more than 0.125 in. (3.175 mm).

- (e) Pull and hold the retainer [7] to insert the socket.

- (f) Install the lens assembly [2] and tighten the screws [6] from 12 in-lb (1.36 N·m) to 15 in-lb (1.69 N·m).

1) Make sure that the UP label is at the top of the lens assembly.

SUBTASK 33-41-00-860-002

- (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>
A	14	C00110	EXTERIOR LIGHTING WING SCAN

SUBTASK 33-41-00-710-001

- (4) Do a test of the new lamp.

- (a) Set the switch for the wing illumination lights to the on mode, at the P5 overhead panel.

1) Make sure that the light comes on.

- (b) Set the switch to the off mode.

1) Make sure that the light goes off.

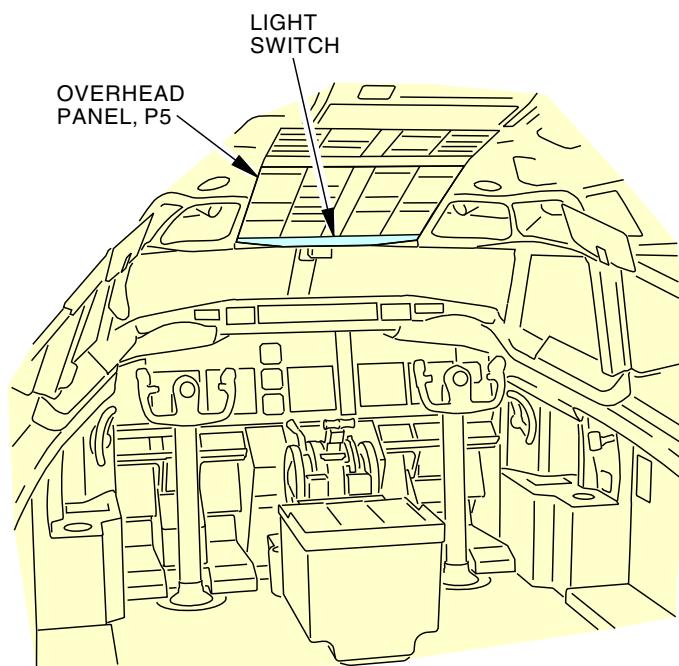
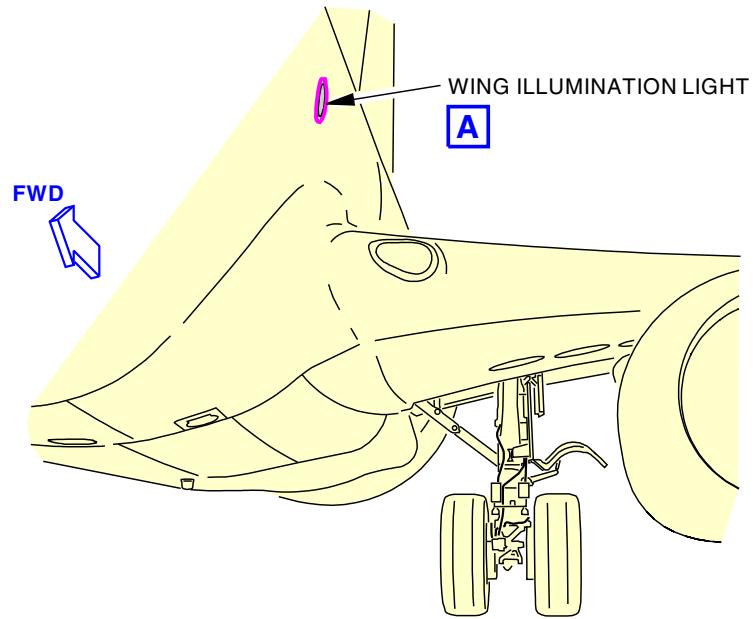
———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-41-00**



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FLIGHT COMPARTMENT

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**Wing Illumination Light - Lamp Replacement**  
Figure 201/33-41-00-990-801 (Sheet 1 of 2)

EFFECTIVITY  
LOM ALL; AIRPLANES WITH WING ILLUMINATION  
LAMP LIGHTS

**33-41-00**

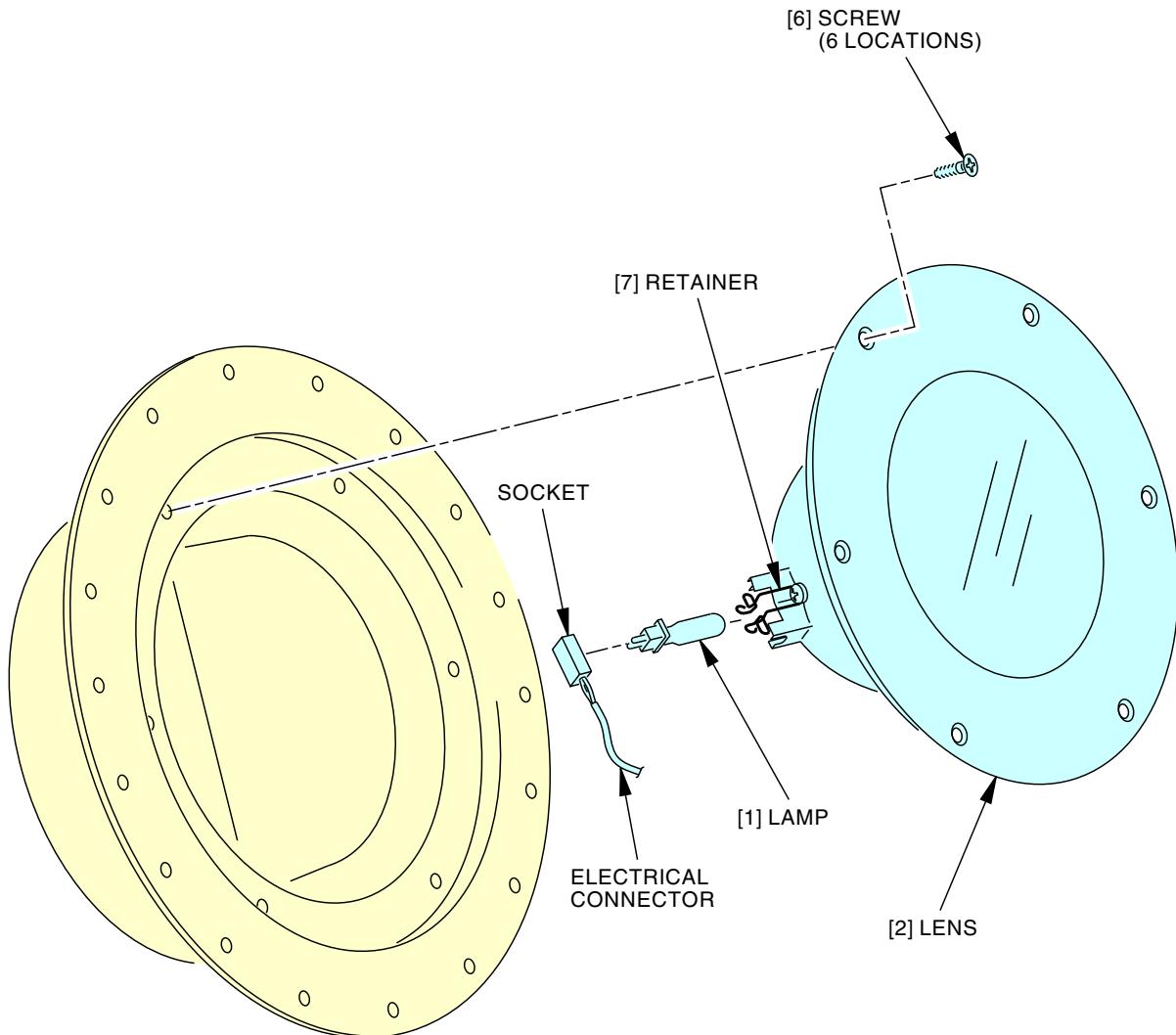
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WING ILLUMINATION LIGHT (LEFT SIDE IS  
SHOWN, RIGHT SIDE IS OPPOSITE)

A

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Wing Illumination Light - Lamp Replacement  
Figure 201/33-41-00-990-801 (Sheet 2 of 2)

EFFECTIVITY  
LOM ALL; AIRPLANES WITH WING ILLUMINATION  
LAMP LIGHTS

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LOM ALL; AIRPLANES WITH WING ILLUMINATION LED MODULE ASSEMBLY LIGHTS

**TASK 33-41-00-960-804**

**5. Wing Illumination Light - LED Module Replacement**

**A. General**

- (1) This procedure gives the steps necessary for the wing illumination light LED module replacement.

**B. References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)

**C. Location Zones**

Zone	Area
230	Subzone - Passenger Compartment - Body Station 360.00 to 663.75

**D. Procedure**

SUBTASK 33-41-00-860-015

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

**CAPT Electrical System Panel, P18-3**

Row	Col	Number	Name
A	14	C00110	EXTERIOR LIGHTING WING SCAN

SUBTASK 33-41-00-960-004

- (2) Do these steps to replace the LED module assembly [30]:

- (a) Remove the captive screws [31].

NOTE: The lanyard stays connected.

- (b) Remove the lens assembly [32].

- (c) Remove the captive screws [33].

- (d) Disconnect the connector [34].

- (e) Pull up the LED module assembly [30].

- (f) Install a new LED module assembly [30]

- (g) Secure the LED module assembly [30] with the captive screws [33].

- (h) Connect the connector [34].

- (i) Align the lens assembly [32] over the LED module assembly [30] and secure using the captive screws [31].

- 1) Tighten the captive screws [31] to 12 in-lb (1 N·m) - 15 in-lb (2 N·m).

- 2) Make sure the UP label is at the top of the lens assembly [32].

SUBTASK 33-41-00-860-016

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

**CAPT Electrical System Panel, P18-3**

Row	Col	Number	Name
A	14	C00110	EXTERIOR LIGHTING WING SCAN



**33-41-00**



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**LOM ALL; AIRPLANES WITH WING ILLUMINATION LED MODULE ASSEMBLY LIGHTS (Continued)**

SUBTASK 33-41-00-860-017

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

SUBTASK 33-41-00-710-006

- (5) Do a test of the LED module assembly.

- (a) At the overhead panel, P5, set the switch for the wing illumination lights to the ON mode.
  - 1) Make sure the light comes on.
- (b) Set the switch to the OFF mode.
  - 1) Make sure the light goes off.

SUBTASK 33-41-00-860-018

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

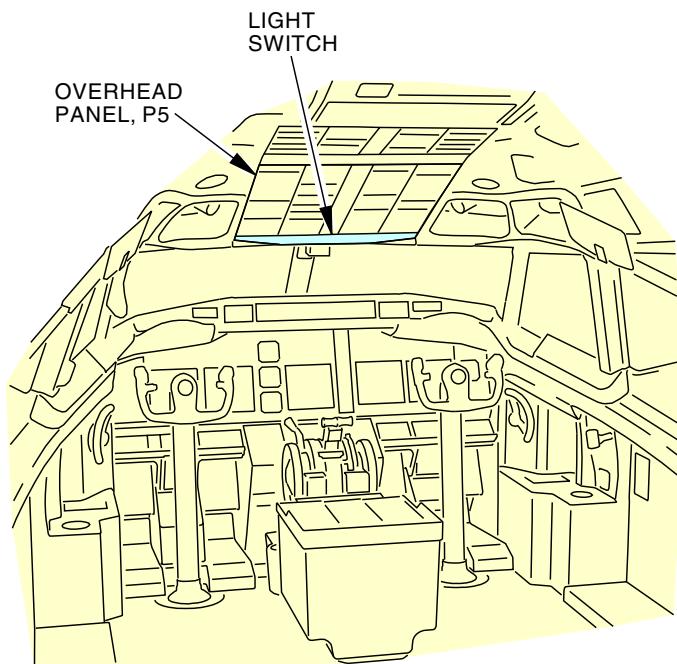
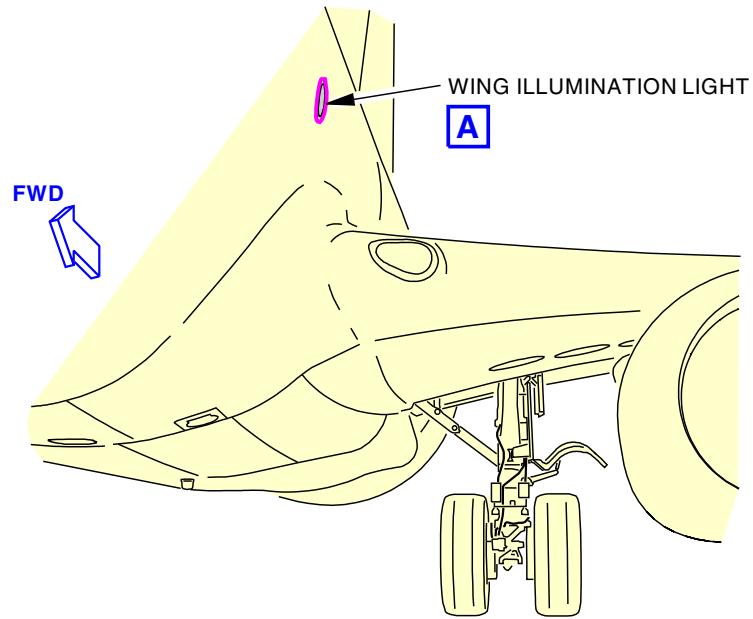
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EFFECTIVITY  
LOM ALL

**33-41-00**



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**Wing Illumination Light - LED Module Replacement**  
**Figure 202/33-41-00-990-804 (Sheet 1 of 2)**

EFFECTIVITY  
LOM ALL; AIRPLANES WITH WING ILLUMINATION  
LED MODULE ASSEMBLY LIGHTS

**33-41-00**

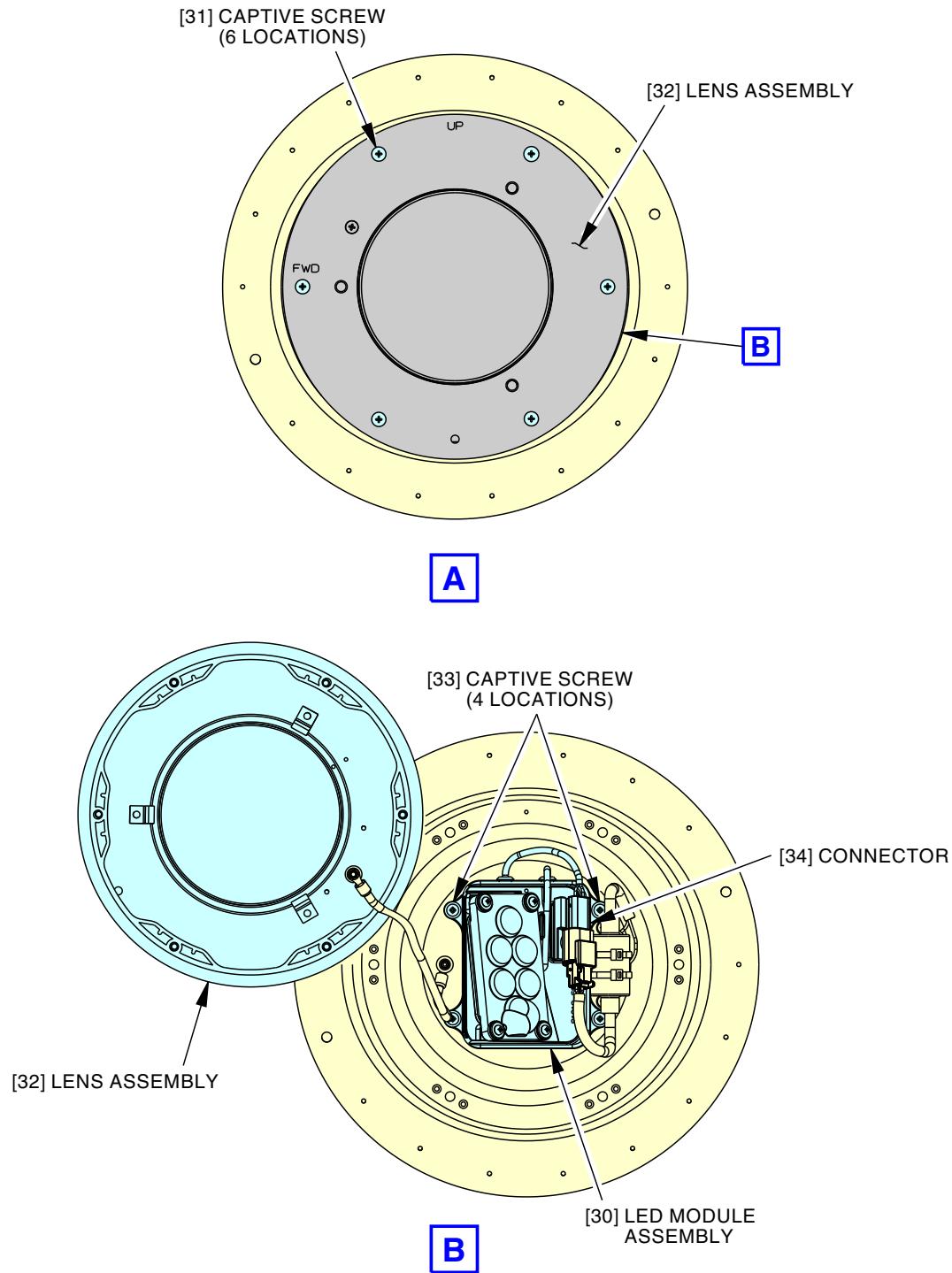
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**Wing Illumination Light - LED Module Replacement**  
Figure 202/33-41-00-990-804 (Sheet 2 of 2)

EFFECTIVITY  
LOM ALL; AIRPLANES WITH WING ILLUMINATION  
LED MODULE ASSEMBLY LIGHTS

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LOM ALL

**TASK 33-41-00-960-802**

**6. Wing Illumination Light - Transformer Replacement**

(Figure 201, Figure 203)

**A. References**

Reference	Title
25-21-46-000-801	Sidewall Panel - Removal (P/B 401)
25-21-46-400-801	Sidewall Panel - Installation (P/B 401)

**B. Tools/Equipment**

Reference	Description
STD-810	Spatula - Fillet Smoothing, Hardwood or Plastic

**C. Consumable Materials**

Reference	Description	Specification
A00281	Adhesive - Dow Corning 3145 RTV	MIL-A-46146 (BAC5010 Type 79)
B01008	Solvent - Final Cleaning Of Metal Prior To Non-Structural Bonding (AMM 20-30-88) - Series 88	
G01306	Gloves - Lint-free	

**D. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Lamp	33-41-00-02-045	LOM ALL
21	Transformer	33-41-00-02-105	LOM ALL

**E. Location Zones**

Zone	Area
230	Subzone - Passenger Compartment - Body Station 360.00 to 663.75

**F. Wing Illumination Light - Transformer Replacement**

SUBTASK 33-41-00-860-019

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

**CAPT Electrical System Panel, P18-3**

Row	Col	Number	Name
A	14	C00110	EXTERIOR LIGHTING WING SCAN

SUBTASK 33-41-00-020-001

- (2) Do these steps out of the airplane at the wing illumination light:

- (a) Loosen the screws [6] and remove the lens assembly [2].

NOTE: The lanyard stays connected.

- (b) Remove the lamp [1].

NOTE: Do not touch the lamp with your hands. Use lint-free gloves, G01306.

- (c) Remove the screws and washers for the transformer.

SUBTASK 33-41-00-010-001

- (3) Remove the sidewall panel inboard of the wing illumination light transformer (TASK 25-21-46-000-801).

EFFECTIVITY
LOM ALL

**33-41-00**



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SUBTASK 33-41-00-010-002

- (4) Pull away the liner for access to the back of the wing illumination light.

SUBTASK 33-41-00-960-002

- (5) Do these steps to replace the transformer:

- (a) Disconnect the electrical wires [22].
- (b) Use a hardwood or plastic fillet smoothing spatula, STD-810, to break the seal around the base of the transformer.
- (c) Remove the transformer [21].
- (d) Clean the mating surfaces with Series 88 solvent, B01008.
- (e) Put the transformer [21] in its position on the back of the light assembly.

SUBTASK 33-41-00-420-001

- (6) Do these steps out of the airplane at the wing illumination light:

- (a) Install the screws for the transformer.
- (b) Install the lamp [1].

NOTE: Do not touch the lamp with your hands. Use lint-free gloves, G01306.

- (c) Install the lens assembly [2] and tighten the screws [6] from 12 in-lb (1.36 N·m) to 15 in-lb (1.69 N·m).

- 1) Make sure that the UP label is at the top of the lens assembly.

SUBTASK 33-41-00-960-003

- (7) Do these steps in the airplane:

- (a) Apply Dow Corning 3145 RTV adhesive, A00281 (or equivalent), around the base of the transformer.
- (b) Connect the electrical wires [22].

SUBTASK 33-41-00-860-006

- (8) 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>
A	14	C00110	EXTERIOR LIGHTING WING SCAN

SUBTASK 33-41-00-710-002

- (9) Do a test of the new transformer.

- (a) At the P5 overhead panel, set the switch for the wing illumination lights to the on mode.
  - 1) Make sure that the light comes on.
- (b) Set the switch to the off mode.
  - 1) Make sure that the light goes off.

SUBTASK 33-41-00-410-001

- (10) Install the sidewall panel (TASK 25-21-46-400-801).

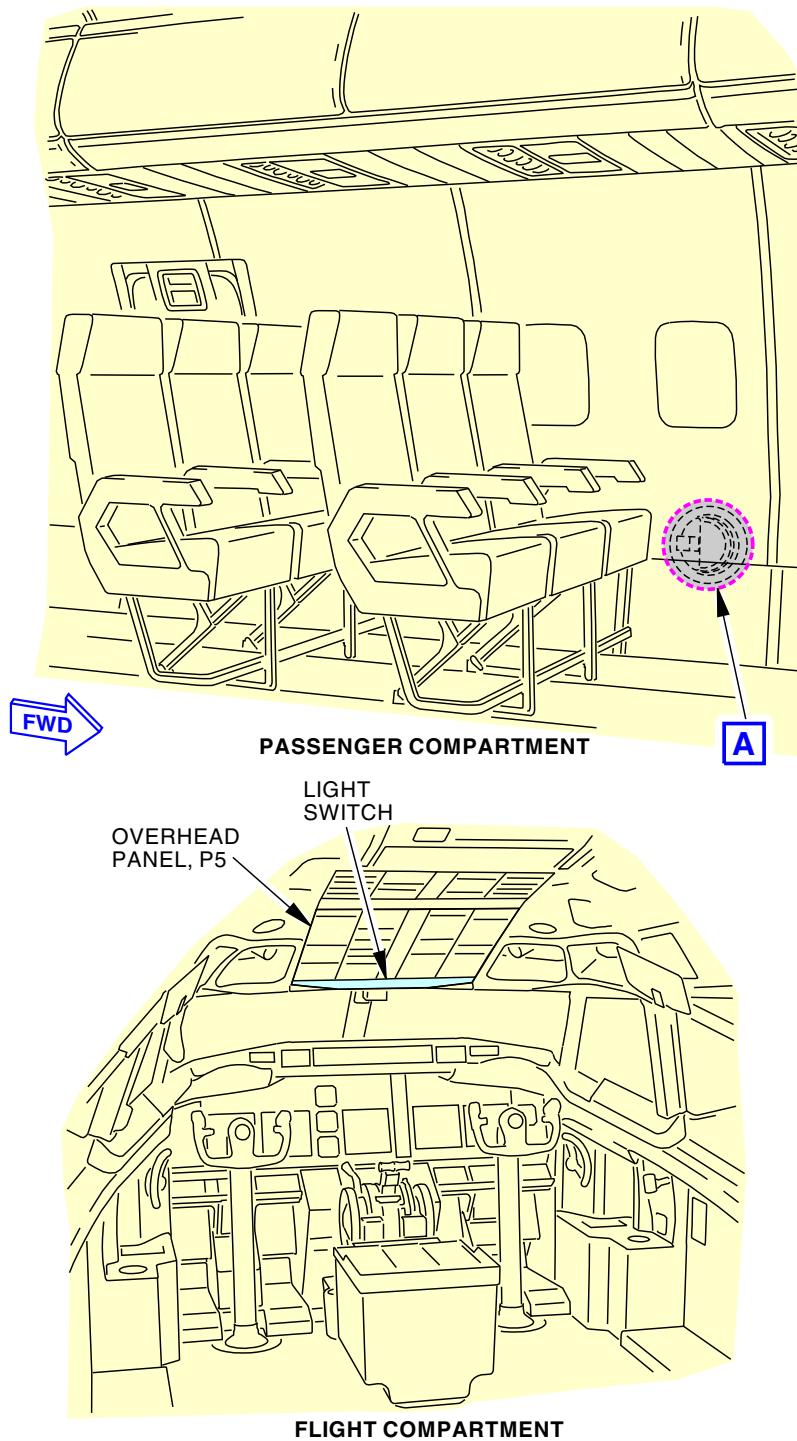
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EFFECTIVITY  
LOM ALL

**33-41-00**



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Wing Illumination Light - Transformer Replacement  
Figure 203/33-41-00-990-802 (Sheet 1 of 2)

EFFECTIVITY  
LOM ALL

**33-41-00**

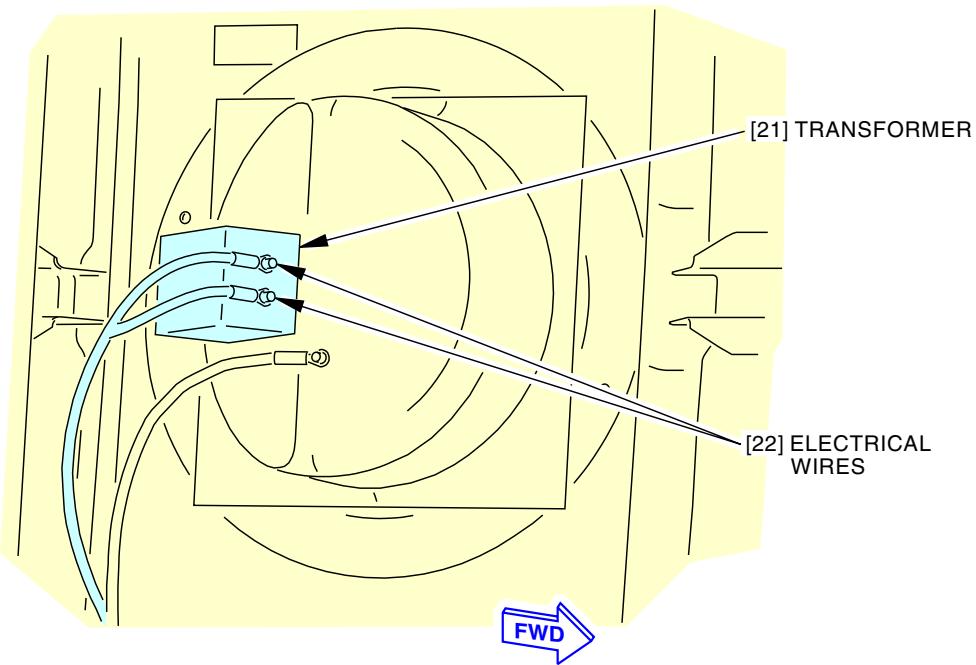
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WING ILLUMINATION LIGHT TRANSFORMER  
(STA 430 1 ; STA 470 2 ; STA 500C+11 3 ; STA 500+11 4 ; STA 500E+9 5 )  
(LEFT SIDE IS SHOWN, RIGHT SIDE IS OPPOSITE)

A

- 1 737-600
- 2 737-700
- 3 737-800
- 4 737-900
- 5 737-800-BCF

K32895 S0006576160\_V3

Wing Illumination Light - Transformer Replacement  
Figure 203/33-41-00-990-802 (Sheet 2 of 2)

EFFECTIVITY  
LOM ALL

33-41-00

D633A101-LOM



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**TASK 33-41-00-960-803**

**7. Wing Illumination Light - Light Assembly Replacement**

**A. References**

Reference	Title
51-31-00-160-801	Prepare For Sealing (P/B 201)

**B. Consumable Materials**

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

**C. Location Zones**

Zone	Area
230	Subzone - Passenger Compartment - Body Station 360.00 to 663.75

**D. Procedure**

SUBTASK 33-41-00-860-011

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

**CAPT Electrical System Panel, P18-3**

Row	Col	Number	Name
A	14	C00110	EXTERIOR LIGHTING WING SCAN

SUBTASK 33-41-00-020-002

- (2) Remove the electrical wires from the transformer (Wing Illumination Light - Transformer Replacement, TASK 33-41-00-960-802).

SUBTASK 33-41-00-020-003

- (3) Remove 18 bolts [2] from the light assembly [1]

SUBTASK 33-41-00-020-004

- (4) Remove the light assembly [1] from the airplane skin.

SUBTASK 33-41-00-160-001

- (5) Clean the sealant from the airplane skin (Prepare For Sealing, TASK 51-31-00-160-801).

SUBTASK 33-41-00-390-001

- (6) Apply sealant, A00247, between the light assembly [1] and the airplane skin for a faying surface seal.

SUBTASK 33-41-00-420-002

- (7) Install the light assembly [1] with its 18 bolts [2].

NOTE: The bolt holes in the light assembly may be too small and need to be drilled.

SUBTASK 33-41-00-420-003

- (8) Install the transformer electrical wires (Wing Illumination Light - Transformer Replacement, TASK 33-41-00-960-802).

**E. Wing Illumination Light Installation Test**

SUBTASK 33-41-00-860-012

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

**CAPT Electrical System Panel, P18-3**

Row	Col	Number	Name
A	14	C00110	EXTERIOR LIGHTING WING SCAN

EFFECTIVITY  
LOM ALL

**33-41-00**



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SUBTASK 33-41-00-710-004

- (2) At the P5 overhead panel, set the switch for the wing illumination lights to the ON mode.
  - (a) Make sure the light comes on.

SUBTASK 33-41-00-710-005

- (3) Set the switch to the OFF mode.
  - (a) Make sure the light goes off.

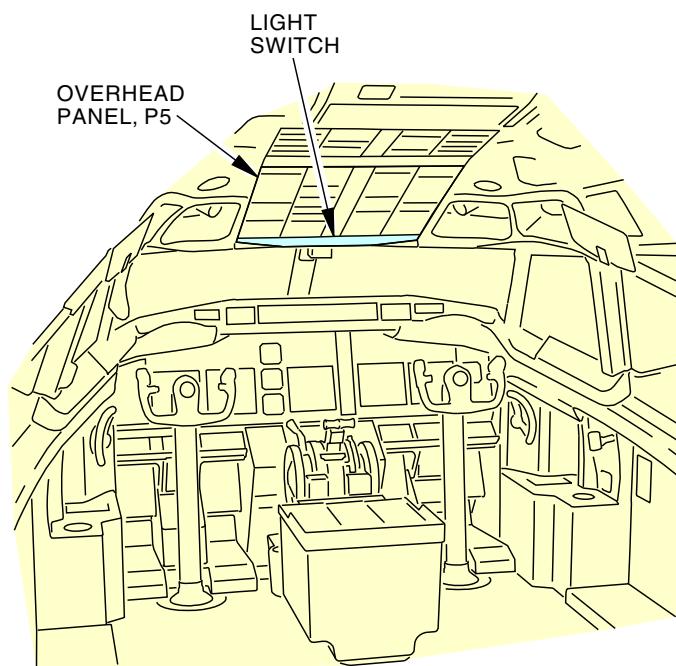
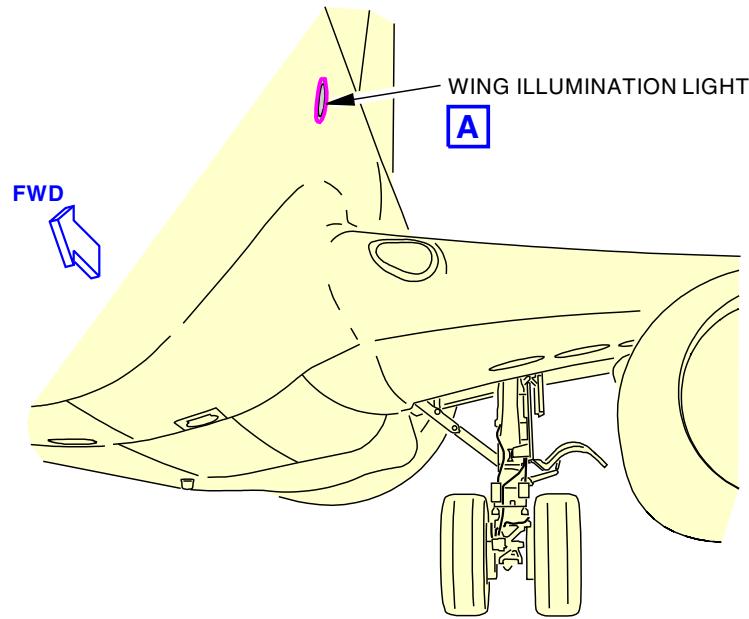
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— EFFECTIVITY —  
LOM ALL

**33-41-00**



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**Wing Illumination Light - Light Assembly Replacement**  
**Figure 204/33-41-00-990-803 (Sheet 1 of 2)**

EFFECTIVITY  
LOM ALL

**33-41-00**

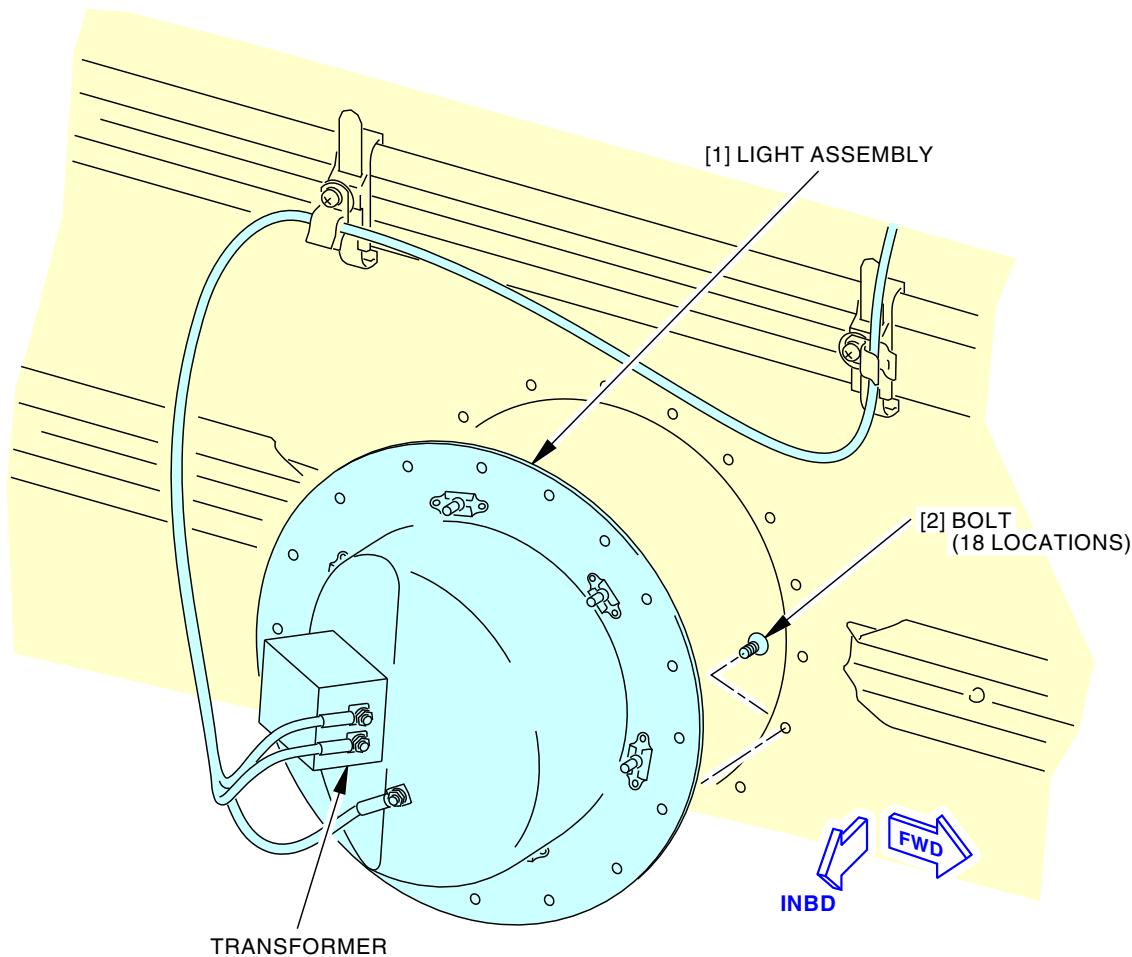
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AIRCRAFT MAINTENANCE MANUAL



WING ILLUMINATION LIGHT ASSEMBLY

A

2338619 S0000531974\_V2

Wing Illumination Light - Light Assembly Replacement  
Figure 204/33-41-00-990-803 (Sheet 2 of 2)

EFFECTIVITY  
LOM ALL

**33-41-00**

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**TASK 33-41-00-710-801**

**8. Wing Illumination Light - Operational Test**

**A. References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)

**B. Location Zones**

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

**C. Procedure**

SUBTASK 33-41-00-860-009

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

SUBTASK 33-41-00-710-003

- (2) Do a test of the wing illumination lights:

- (a) At the overhead panel, P5, set the switch for the wing illumination lights to the on mode.
    - 1) Make sure the lights come on.
  - (b) Set the switch to the off mode.
    - 1) Make sure the lights go off.

SUBTASK 33-41-00-860-010

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

———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-41-00**



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**FIXED LANDING LIGHTS - MAINTENANCE PRACTICES**

**1. General**

- A. This procedure has these tasks:
- (1) Fixed Landing Light - Deactivation
  - (2) Fixed Landing Light - Activation

**LOM 462-999**

- (3) Fixed Landing Light - Main Array Assembly Replacement
- (4) Fixed Landing Light - Power Supply Replacement

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461**

- (5) Fixed Landing Light - Lamp Replacement
- (6) Fixed Landing Light - Light Beam Adjustment
- (7) Fixed Landing Light - Transformer Replacement

**LOM ALL**

- (8) Fixed Landing Light - Lens Temporary Repair

**LOM 462-999**

- B. The Main Array assemblies are used for both Landing and Taxi light functions.

**LOM ALL**

**TASK 33-42-01-040-801**

**2. Fixed Landing Light - Deactivation**

(Figure 201)

**A. General**

- (1) This procedure removes the electrical power to the Fixed Landing Lights.

**B. Location Zones**

<b>Zone</b>	<b>Area</b>
211	Flight Compartment - Left
212	Flight Compartment - Right
511	Left Wing - Leading Edge To Front Spar
611	Right Wing - Leading Edge to Front Spar

**C. Procedure**

SUBTASK 33-42-01-860-031

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

**CAPT Electrical System Panel, P18-3**

**Row**   **Col**   **Number**   **Name**

**LOM 462-999**

B      14      C01968      EXTERIOR LIGHTING LTRTL - RIGHT

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461**

B      15      C00271      EXTERIOR LIGHTING LANDING LEFT FIXED

**LOM 462-999**

B      15      C01969      EXTERIOR LIGHTING LTRTL - LEFT

EFFECTIVITY  
**LOM ALL**

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LOM 462-999 (Continued)

(Continued)

**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**

C      14      C00272      EXTERIOR LIGHTING LANDING RIGHT FIXED

**LOM ALL**

**D. Fixed Landing Light - Tryout**

NOTE: This tryout is to make sure the Fixed Landing light is in a zero energy state.

SUBTASK 33-42-01-200-002

- (1) Do the following steps to make sure the power has been removed:
  - (a) At the overhead panel, P5, set the fixed landing lights switch to the ON Position.
  - (b) Make sure that the fixed landing lights in both wings are off.

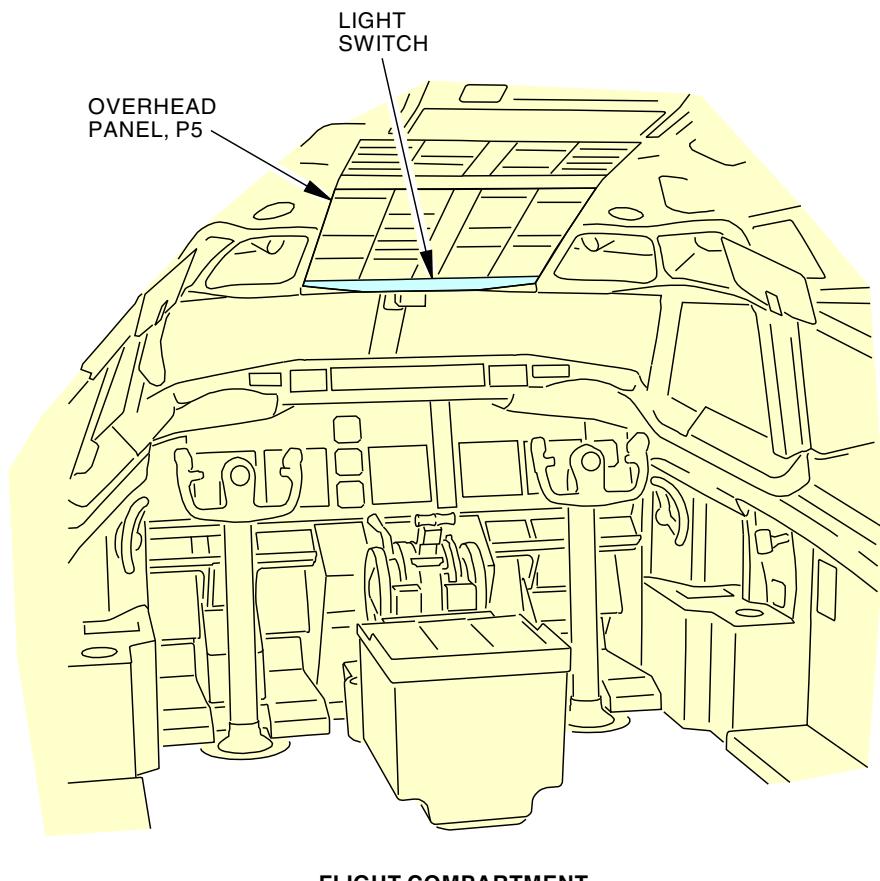
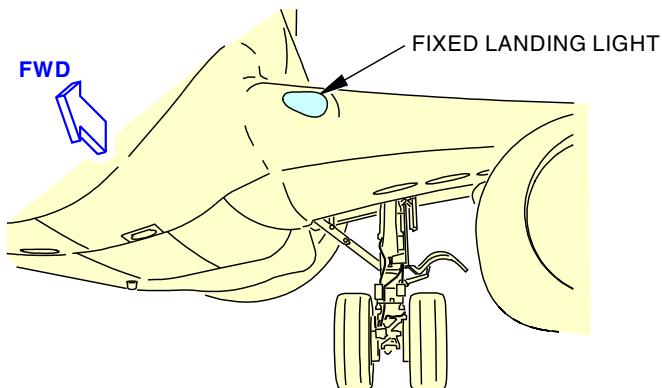
———— END OF TASK ————

EFFECTIVITY  
**LOM ALL**

**33-42-01**



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FLIGHT COMPARTMENT

2363883 S0000540237\_V2

**Fixed Landing Lights**  
Figure 201/33-42-01-990-807

EFFECTIVITY  
LOM ALL

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**TASK 33-42-01-440-801**

**3. Fixed Landing Light - Activation**

(Figure 201)

**A. General**

- (1) This procedure adds the electrical power to the Fixed Landing Lights.

**B. Location Zones**

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right
511	Left Wing - Leading Edge To Front Spar
611	Right Wing - Leading Edge to Front Spar

**C. Procedure**

SUBTASK 33-42-01-860-032

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

**CAPT Electrical System Panel, P18-3**

Row   Col   Number   Name

**LOM 462-999**

B      14      C01968      EXTERIOR LIGHTING LTRTL - RIGHT

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461**

B      15      C00271      EXTERIOR LIGHTING LANDING LEFT FIXED

**LOM 462-999**

B      15      C01969      EXTERIOR LIGHTING LTRTL - LEFT

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461**

C      14      C00272      EXTERIOR LIGHTING LANDING RIGHT FIXED

———— END OF TASK ————

LOM 462-999

**TASK 33-42-01-960-803**

**4. Fixed Landing Light - Main Array Assembly Replacement**

(Figure 202)

**A. General**

- (1) This task gives the instructions to replace the main array assembly.  
(2) The main array also does the taxi light function.  
(3) The inboard and outboard array assemblies are the parts of the main array.

**B. References**

Reference	Title
20-40-12-000-801	ESDS Handling for Printed Circuit Board Removal (P/B 201)
24-22-00-860-811	Supply Electrical Power (P/B 201)
27-51-00-040-801	Trailing Edge Flap System Deactivation (P/B 201)
27-51-00-440-801	Trailing Edge Flap System Reactivation (P/B 201)
27-81-00-040-801	Leading Edge Flaps and Slats Deactivation (P/B 201)
27-81-00-440-801	Leading Edge Flaps and Slats - Activation (P/B 201)



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**LOM 462-999 (Continued)**

(Continued)

<b>Reference</b>	<b>Title</b>
SWPM 20-20-00	ELECTRICAL BONDING PROCESSES
SWPM 20-20-00, Paragraph 2.E.	Standard Wiring Practices Manual
SWPM 20-20-10 Paragraph 4.D	Category 2 Fay Sealed Pre-Installed Ground Stud Assembly

**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.

<b>Reference</b>	<b>Description</b>
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

**D. Consumable Materials**

<b>Reference</b>	<b>Description</b>	<b>Specification</b>
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
B00184	Solvent - Presealing, Cleaning Solvent	BMS11-7
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	AMS3819 Class 1 Grade A or B Form 1 (Supersede BMS15-5 CL A)
G50066	Tape - Thick Ribbed Tape with Adhesive (Skyflex GSC-21-95241-011)	

**E. Expendables/Parts**

<b>AMM Item</b>	<b>Description</b>	<b>AIPC Reference</b>	<b>AIPC Effectivity</b>
44	Packing	33-45-51-04-044	LOM 462-999
45	Packing	33-45-51-04-048	LOM 462-999
46	Packing	33-45-51-04-100	LOM 462-999
47	Packing	33-45-51-04-085	LOM 462-999

**F. Location Zones**

<b>Zone</b>	<b>Area</b>
511	Left Wing - Leading Edge To Front Spar
611	Right Wing - Leading Edge to Front Spar

EFFECTIVITY
LOM ALL

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AIRCRAFT MAINTENANCE MANUAL

LOM 462-999 (Continued)

### G. Prepare for the Replacement

SUBTASK 33-42-01-860-047



**WARNING** DO THE DEACTIVATION PROCEDURE FOR THE LEADING EDGE FLAPS AND SLATS. THE FLAPS AND SLATS MOVE QUICKLY. INJURIES TO

PERSONNEL, AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Do one of these steps to deactivate the leading edge flaps and slats in the retracted (UP) position:
  - (a) If activation is not necessary to the trailing edge flaps, do this task: Trailing Edge Flap System Deactivation, TASK 27-51-00-040-801.  
NOTE: This task deactivates both the leading edge flaps/slats and the trailing edge flaps.
  - (b) If activation is necessary to the trailing edge flaps, do this task: Leading Edge Flaps and Slats Deactivation, TASK 27-81-00-040-801.  
NOTE: This task only deactivates the leading edge flaps and slats. The trailing edge flaps can still operate.

SUBTASK 33-42-01-860-048

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

**CAPT Electrical System Panel, P18-3**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	14	C01968	EXTERIOR LIGHTING LTRTL - RIGHT
B	15	C01969	EXTERIOR LIGHTING LTRTL - LEFT
D	12	C01518	EXTERIOR LIGHTING GENERAL LIGHT CONT

SUBTASK 33-42-01-910-006



**CAUTION** DO NOT TOUCH THE CONNECTOR PINS, OR OTHER CONDUCTORS. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE COMPONENTS.

- (3) Before the inboard array assembly [1] or outboard array assembly [2] is touched, do this task: ESDS Handling for Printed Circuit Board Removal, TASK 20-40-12-000-801.

### H. Fixed Landing Light Main Array Assembly Replacement

SUBTASK 33-42-01-010-006

- (1) Loosen the studs [4] and remove the lens assembly [3].
  - (a) Make sure that the lanyard [5] stays connected.
  - (b) Keep the lens assembly [3] and lanyard [5] away from the wing leading edge.

SUBTASK 33-42-01-020-005

- (2) Do these steps to replace the main array:
  - (a) Remove the nuts [7], washers [6] and jumpers [8].
  - (b) Loosen the screws [9] and screws [21].
  - (c) Remove the screws [12] and washers [11] to disconnect the inboard array assembly [1] and outboard array assembly [2].
  - (d) Remove the inboard array assembly [1] with the captive fasteners from the brackets.

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LOM ALL

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LOM 462-999 (Continued)

- (e) Remove the screws [9], washers [10], packings [44] (if installed), screws [21], washers [23], and packings [45] (if installed) from the inboard array assembly [1].
    - 1) If the packings [44] and packings [45] have signs of damage or wear, discard them.
  - (f) Disconnect the electrical connector [13] from the inboard array assembly [1].
  - (g) Disconnect the clamp [22] from the inboard array assembly [1].
  - (h) Loosen the screws [26] and screws [29].
  - (i) Remove the outboard array assembly [2] with the captive fasteners from the brackets.
  - (j) Remove the screws [26], washers [27], packings [47] (if installed), screws [29], washers [30], and packings [46] (if installed) from the outboard array assembly [2].
    - 1) If the packings [46] and packings [47] have sign of damage or wear, discard them.
  - (k) Disconnect the electrical connector [13] from the outboard array assembly [2].
  - (l) Disconnect the clamp [22] from the outboard array assembly [2].
  - (m) Install the screws [29], washers [30], packings [46], screws [26], washers [27] and packings [47] into holes for the fasteners of the new outboard array assembly [2].
- NOTE: The screws [29] are longer than screws [26].
- 1) Install the new packings [46] and new packings [47], if it is necessary.
- NOTE: As an optional procedure, it is permitted to install the array assembly without packings.
- 2) Install the fasteners loose.
- (n) Connect the electrical connector [13] to the new outboard array assembly [2].
  - (o) Connect the clamp [22] to the new outboard array assembly [2] to secure the wire.
  - (p) Install the new outboard array assembly [2] with the captive fasteners to the brackets.
  - (q) Install the screws [9], washers [10], packings [44], screws [21], washers [23], and packings [45] into holes for the fasteners of the new inboard array assembly [1].
- NOTE: The screws [21] are longer than the screws [9].
- 1) Install the new packings [44] and new packings [45], if it is necessary.
- NOTE: As an optional procedure, it is permitted to install the array assembly without packings.
- 2) Install the fasteners loose.
- (r) Connect the electrical connector [13] to the new inboard array assembly [1].
  - (s) Connect the clamp [22] to the new inboard array assembly [1] to secure the wire.
  - (t) Install the new inboard array assembly [1] with the captive fasteners to the brackets.
  - (u) Install the screws [12] and washers [11] to connect the inboard array assembly [1] and outboard array assembly [2].
    - 1) Tighten the screws [12], screws [21], screws [9], screws [26], and screws [29] to 35 in-lb (3.95 N·m) - 36 in-lb (4.07 N·m).

SUBTASK 33-42-01-120-001

- (3) Install the washers [6] and nuts [7] to connect the jumpers [8] to the structure.

EFFECTIVITY  
LOM ALL

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LOM 462-999 (Continued)

- (a) Use cotton wiper, G00034, moist in solvent, B00184, to clean the mating surfaces of the airplane structure, nuts [7], jumpers [8], and washers [6] (SWPM 20-20-00, Paragraph 2.E.).
- (b) Apply sealant, A50110, or sealant, A50155, or sealant, A50231, or sealant, A50296, to the mating surfaces of the ground stud, nuts [7], washers [6], and jumpers [8] (SWPM 20-20-10 Paragraph 4.D).
- (c) Install the jumpers [8], washers [6], and nuts [7].
- (d) Tighten the nuts [7] to 28 in-lb (3.2 N·m) - 35 in-lb (4.0 N·m).
  - 1) Make sure that there is squeeze out around all the interfaces of each components.
- (e) Measure the electrical resistance between the jumpers [8] and airplane structure (SWPM 20-20-00).
  - 1) Use an intrinsically safe approved bonding meter, COM-1550.
  - 2) Make sure that the electrical bonding resistance is 0.001 ohm (1.0 milliohm) or less.

SUBTASK 33-42-01-860-049

- (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>
B	14	C01968	EXTERIOR LIGHTING LTRTL - RIGHT
B	15	C01969	EXTERIOR LIGHTING LTRTL - LEFT
D	12	C01518	EXTERIOR LIGHTING GENERAL LIGHT CONT

SUBTASK 33-42-01-860-050

- (5) Make sure that electrical power is supplied to the airplane (TASK 24-22-00-860-811).

SUBTASK 33-42-01-710-012



DO NOT LOOK DIRECTLY AT LIGHTS. HIGH INTENSITY OF LIGHTS CAN CAUSE EYE DAMAGE.

**WARNING**

- (6) Do a test of the main arrays.

- (a) Set left LANDING switch, at the P5 overhead panel, to the ON position.
  - 1) Make sure that the left main array comes on.
- (b) Set left LANDING switch, at the P5 overhead panel, to the OFF position.
  - 1) Make sure that the left main array goes off.
- (c) Set right LANDING switch, at the P5 overhead panel, to the ON position.
  - 1) Make sure that the right main array comes on.
- (d) Set right LANDING switch, at the P5 overhead panel, to the OFF position.
  - 1) Make sure that the right main array goes off.
- (e) Set the TAXI switch, at the P5 overhead panel, to the ON or AUTO position.
  - 1) Make sure that the left and right main arrays come on but at a lower power level than when the LANDING switches are in the ON position.
- (f) Set the TAXI switch, at the P5 overhead panel, to the OFF position.

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LOM ALL

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**LOM 462-999 (Continued)**

- 1) Make sure that the left and right main arrays go off.

SUBTASK 33-42-01-410-006

- (7) Do these steps to install the lens assembly [3]:
  - (a) If the tape around the perimeter of the lens opening is damaged, do these steps:
    - 1) Remove and discard the damaged tape.
      - a) Apply Skyflex tape, G50066, around the perimeter of the lens opening.
      - b) If the tape is too long, fold it to fit the opening, but not more than four times.  
<1> Do not stretch the tape.
    - 2) Use a sharp tool to make a 0.25 in. (6.35 mm) cut in the tape at the 15 holes.
      - a) Make no other cuts to the tape.
    - (b) Install the lens assembly [3] with the studs [4].
      - 1) Tighten each stud [4] to 20 in-lb (2.3 N·m) - 25 in-lb (2.8 N·m).

**I. Put the Airplane Back to Its Usual Condition**

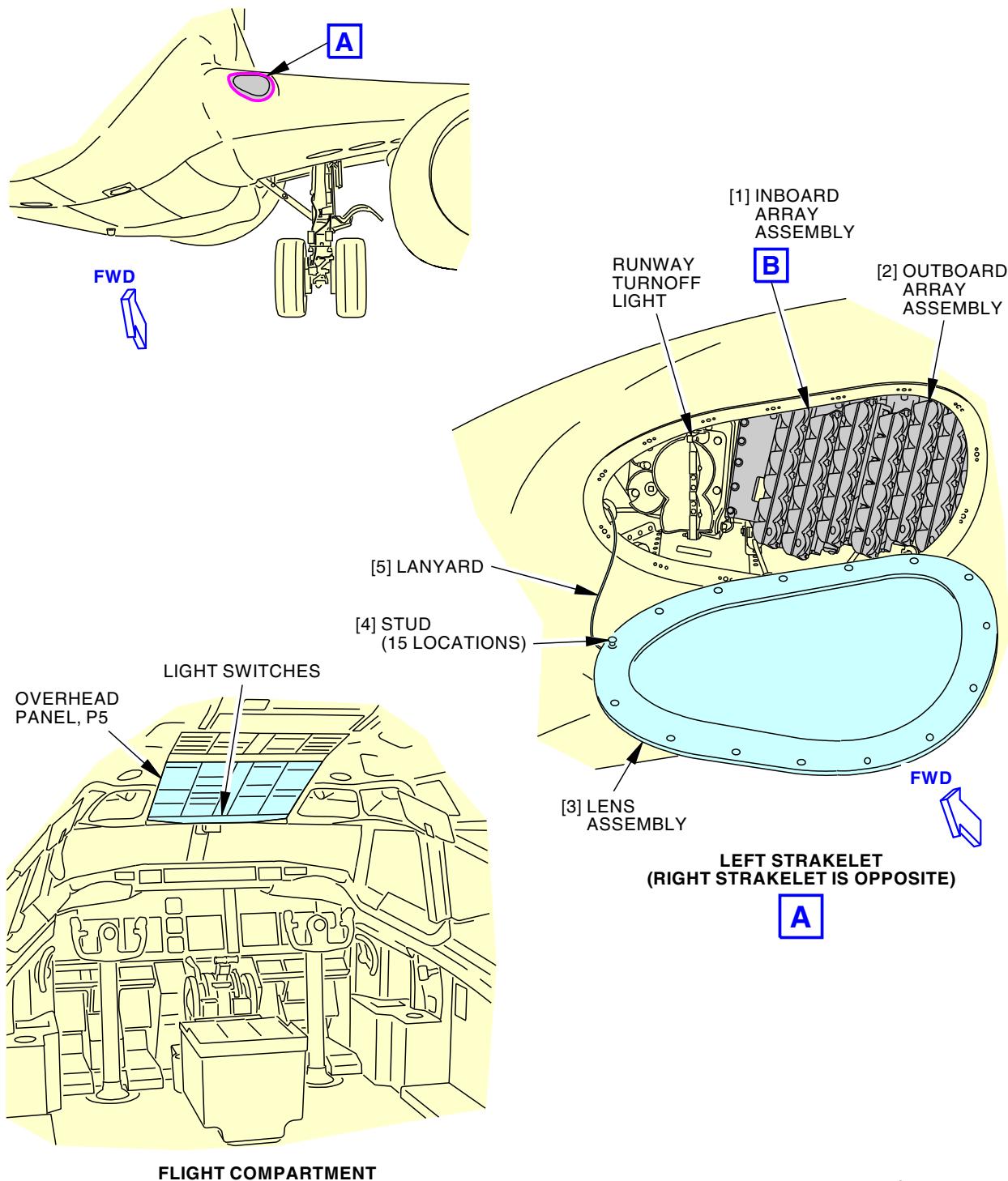
SUBTASK 33-42-01-860-051

- (1) Do these steps to reactivate the leading edge flaps and slats:
  - (a) If the trailing edge flaps system was deactivated, do this task: Trailing Edge Flap System Reactivation, TASK 27-51-00-440-801.
  - (b) If the leading edge flaps and slats system was deactivated, do this task: Leading Edge Flaps and Slats - Activation, TASK 27-81-00-440-801.

———— END OF TASK ———

EFFECTIVITY  
LOM ALL

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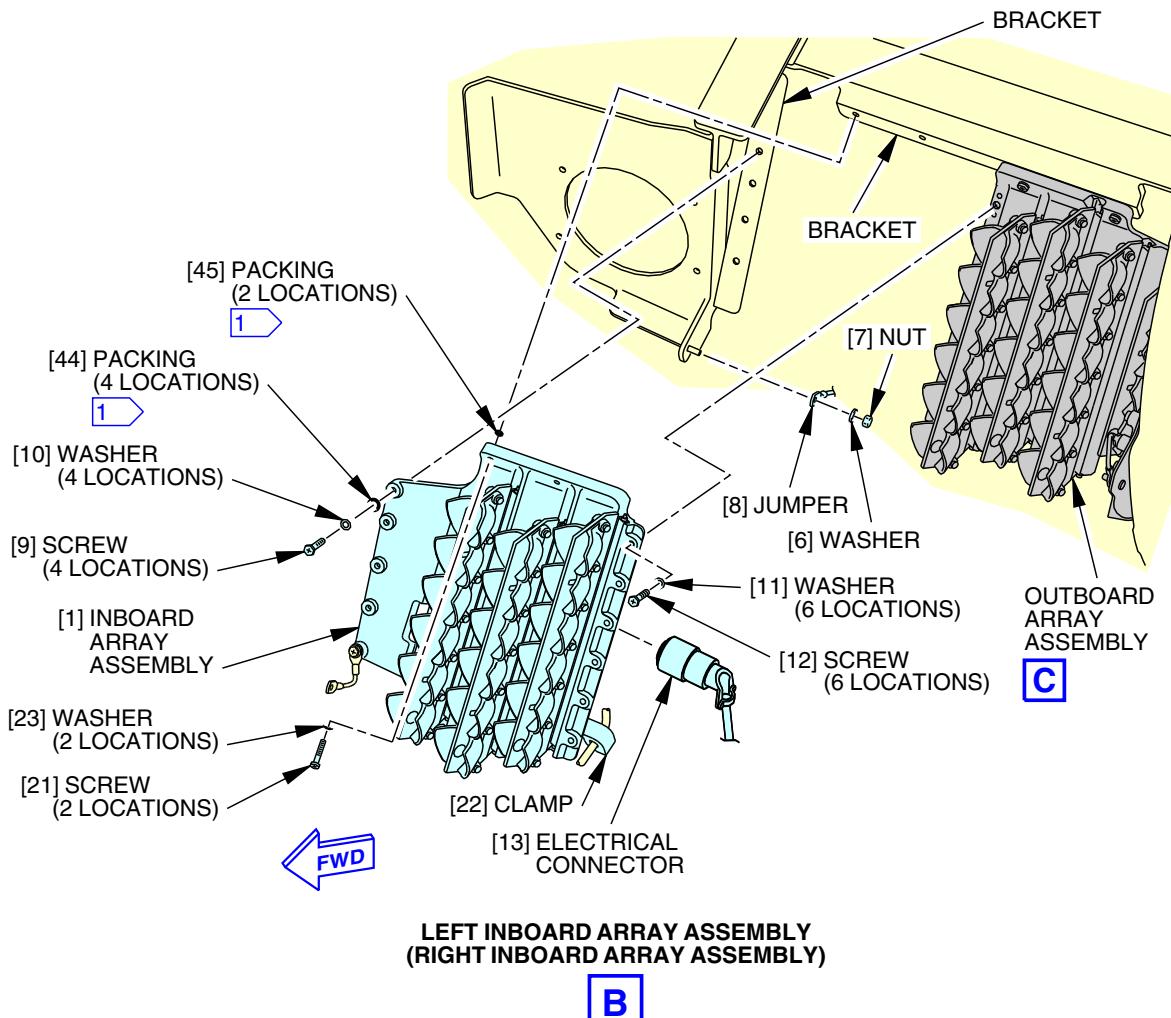
**Fixed Landing Light - Main Array Assembly Replacement**  
Figure 202/33-42-01-990-811 (Sheet 1 of 3)

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LOM 462-999

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**FOR AN OPTIONAL PROCEDURE** **PACKING**  
**INSTALLATION IS NOT NECESSARY**

2422499 S0000560157\_V7

**Fixed Landing Light - Main Array Assembly Replacement**  
**Figure 202/33-42-01-990-811 (Sheet 2 of 3)**

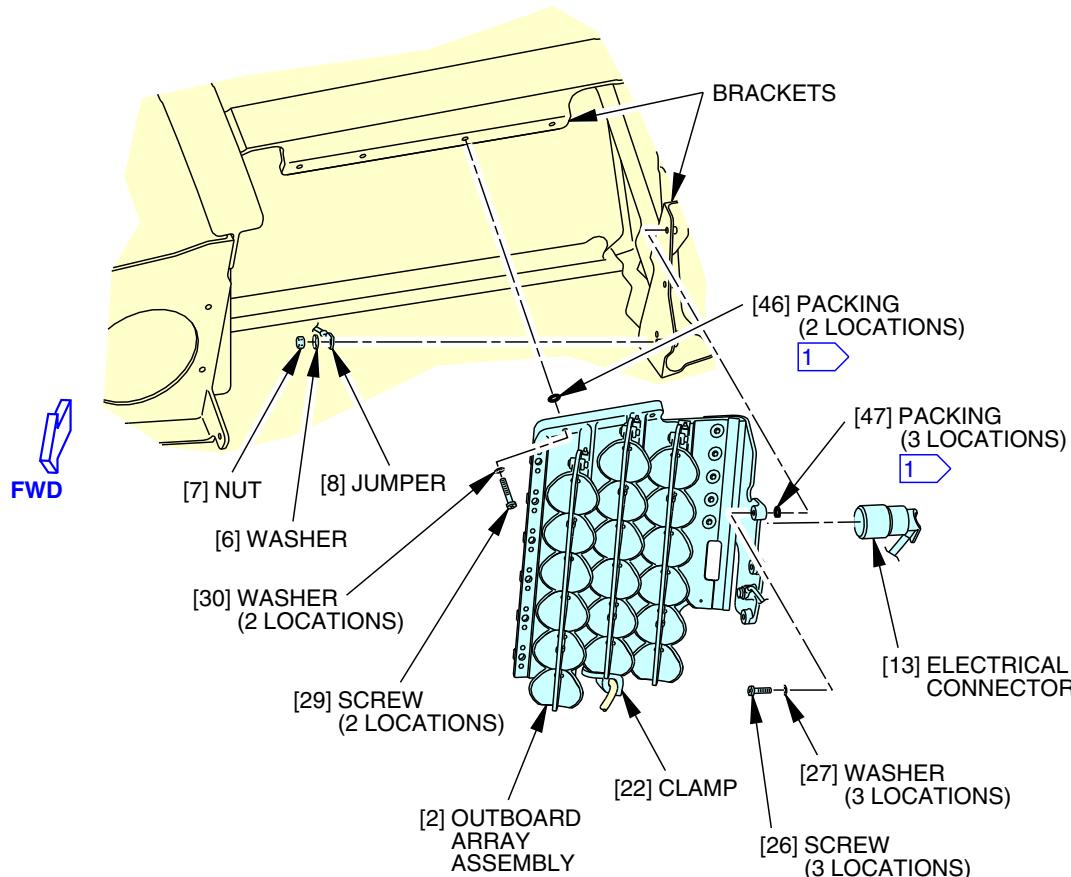
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LOM 462-999

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LEFT OUTBOARD ARRAY ASSEMBLY  
(RIGHT OUTBOARD ARRAY ASSEMBLY)

C

FOR AN OPTIONAL PROCEDURE  
PACKING  
INSTALLATION IS NOT NECESSARY

2935719 S0000704723\_V6

**Fixed Landing Light - Main Array Assembly Replacement**  
**Figure 202/33-42-01-990-811 (Sheet 3 of 3)**

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LOM 462-999 (Continued)

**TASK 33-42-01-960-804**

**5. Fixed Landing Light - Power Supply Replacement**

(Figure 203)

**A. General**

- (1) This procedure contains the steps to replace the power supply [14].
- (2) The power supply [14] provides power and control to the main array and runway turnoff light assemblies.
- (3) The power supply [14] is located behind the main array.

**B. References**

Reference	Title
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
27-51-00-040-801	Trailing Edge Flap System Deactivation (P/B 201)
27-51-00-440-801	Trailing Edge Flap System Reactivation (P/B 201)
27-81-00-040-801	Leading Edge Flaps and Slats Deactivation (P/B 201)
27-81-00-440-801	Leading Edge Flaps and Slats - Activation (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-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

**D. Consumable Materials**

Reference	Description	Specification
A50231	Sealant - Pressure And Environmental - Chromate Type	BMS5-95 Class B
G50066	Tape - Thick Ribbed Tape with Adhesive (Skyflex GSC-21-95241-011)	

**E. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
14	Power supply	33-45-52-04-035	LOM 462-999

EFFECTIVITY  
LOM ALL

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LOM 462-999 (Continued)

**F. Location Zones**

**Zone**

**Area**

511	Left Wing - Leading Edge To Front Spar
611	Right Wing - Leading Edge to Front Spar

**G. Prepare for the Replacement**

SUBTASK 33-42-01-860-041



**WARNING**

DO THE DEACTIVATION PROCEDURE FOR THE LEADING EDGE FLAPS AND SLATS. THE FLAPS AND SLATS MOVE QUICKLY. INJURIES TO PERSONNEL, AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Do one of these steps to deactivate the leading edge flaps and slats in the retracted (UP) position:

- (a) If activation is not necessary to the trailing edge flaps, do this task: Trailing Edge Flap System Deactivation, TASK 27-51-00-040-801.

NOTE: This task deactivates both the leading edge flaps/slats and the trailing edge flaps.

- (b) If activation is necessary to the trailing edge flaps, do this task: Leading Edge Flaps and Slats Deactivation, TASK 27-81-00-040-801.

NOTE: This task only deactivates the leading edge flaps and slats. The trailing edge flaps can still operate.

SUBTASK 33-42-01-860-042

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

**CAPT Electrical System Panel, P18-3**

**Row**

**Col**

**Number**

**Name**

B	14	C01968	EXTERIOR LIGHTING LTRTL - RIGHT
B	15	C01969	EXTERIOR LIGHTING LTRTL - LEFT
D	12	C01518	EXTERIOR LIGHTING GENERAL LIGHT CONT

SUBTASK 33-42-01-010-005

- (3) Remove the main array assembly (Fixed Landing Light - Main Array Assembly Replacement, TASK 33-42-01-960-803).

SUBTASK 33-42-01-910-004

- (4) Before you touch the power supply [14], do the procedure for devices that are sensitive to electrostatic discharge (ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802).

**H. Procedure**

SUBTASK 33-42-01-020-004

- (1) Do these steps to replace the power supply [14]:

- (a) Remove the nut [17], washer [18] and jumper [19].

- (b) Remove the 10 bolts [15] and 10 washers [16].

- (c) Remove the power supply [14] from the bracket.

- (d) Disconnect the four electrical connectors [20] from the power supply [14].

- (e) Connect the four electrical connectors [20] to the new power supply [14].

EFFECTIVITY  
LOM ALL

**33-42-01**



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**LOM 462-999 (Continued)**

- (f) Install the new power supply [14] to the bracket.
- (g) Install the 10 bolts [15] and 10 washers [16].
  - 1) Torque the bolts [15] to 35 in-lb (3.95 N·m) - 36 in-lb (4.07 N·m).
- (h) Apply sealant, A50231 to the contacts of the nut [17], washer [18] and jumper [19].
- (i) Install the nut [17], washer [18] and jumper [19].
  - 1) Torque the nut [17] to 65 in-lb (7 N·m) - 70 in-lb (8 N·m).

SUBTASK 33-42-01-910-005

- (2) Measure the electrical bonding resistance using an intrinsically safe approved bonding meter, COM-1550 between the power supply [14] and the fuselage (SWPM 20-20-00).
  - (a) Make sure that the bonding resistance is less than 0.0010 ohms.

SUBTASK 33-42-01-420-001

- (3) Install the main array (Fixed Landing Light - Main Array Assembly Replacement, TASK 33-42-01-960-803).

SUBTASK 33-42-01-860-043

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

**CAPT Electrical System Panel, P18-3**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
B	14	C01968	EXTERIOR LIGHTING LTRTL - RIGHT
B	15	C01969	EXTERIOR LIGHTING LTRTL - LEFT
D	12	C01518	EXTERIOR LIGHTING GENERAL LIGHT CONT

SUBTASK 33-42-01-860-044

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

SUBTASK 33-42-01-710-005



**WARNING** DO NOT LOOK DIRECTLY AT LIGHTS. HIGH INTENSITY OF LIGHTS CAN CAUSE EYE DAMAGE.

- (6) Do a test of the main array and the runway turnoff light assemblies.
  - (a) At the overhead panel, P5, set left LANDING switch to the ON position.
    - 1) Make sure that the left main array comes on.
  - (b) At the overhead panel, P5, set left LANDING switch to the OFF position.
    - 1) Make sure that the left main array goes off.
  - (c) At the overhead panel, P5, set right LANDING switch to the ON position.
    - 1) Make sure that the right main array comes on.
  - (d) At the overhead panel, P5, set right LANDING switch to the OFF position.
    - 1) Make sure that the right main array goes off.
  - (e) At the overhead panel, P5, set the TAXI switch to the ON or AUTO position.
    - 1) Make sure that the left and right main arrays come on but at a lower power level than when the LANDING switches are in the ON position.
  - (f) At the overhead panel, P5, set the TAXI switch to the OFF position.

EFFECTIVITY  
LOM ALL

**33-42-01**



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**LOM 462-999 (Continued)**

- 1) Make sure that the left and right main arrays go off.
- (g) At the overhead panel, P5, set the left RUNWAY TURNOFF switch to the ON position.
  - 1) Make sure that the left runway turnoff light comes on.
- (h) At the overhead panel, P5, set the left RUNWAY TURNOFF switch to the OFF position.
  - 1) Make sure that the left runway turnoff light goes off.
- (i) At the overhead panel, P5, set the right RUNWAY TURNOFF switch to the ON position.
  - 1) Make sure that the right runway turnoff light comes on.
- (j) At the overhead panel, P5, set the right RUNWAY TURNOFF switch to the OFF position.
  - 1) Make sure that the right runway turnoff light goes off.

SUBTASK 33-42-01-410-005

- (7) Do these steps to install the lens assembly [3]:
  - (a) If the tape around the perimeter of the lens opening is damaged, do these steps:
    - 1) Remove and discard the damaged tape.
      - a) Apply Skyflex tape, G50066, around the perimeter of the lens opening.
      - b) If the Skyflex tape, G50066 is too long, fold it to fit the opening, but not more than four times.
  - NOTE: Do not stretch the Skyflex tape, G50066.
  - 2) Use a sharp tool to make a 0.25 in. (6.35 mm) cut in the Skyflex tape, G50066 at the 15 holes.

NOTE: Make no other cuts to the Skyflex tape, G50066.

  - (b) Install the lens assembly [3] with the 15 studs [4].
    - 1) Torque each stud [4] to 20 in-lb (2.3 N·m) - 25 in-lb (2.8 N·m).

**I. Put the Airplane Back to Its Usual Condition**

SUBTASK 33-42-01-860-045

- (1) Do these steps to reactivate the leading edge flaps and slats:
  - (a) If the trailing edge flaps system was deactivated, do this task: Trailing Edge Flap System Reactivation, TASK 27-51-00-440-801.
  - (b) If the leading edge flaps and slats system was deactivated, do this task: Leading Edge Flaps and Slats - Activation, TASK 27-81-00-440-801.

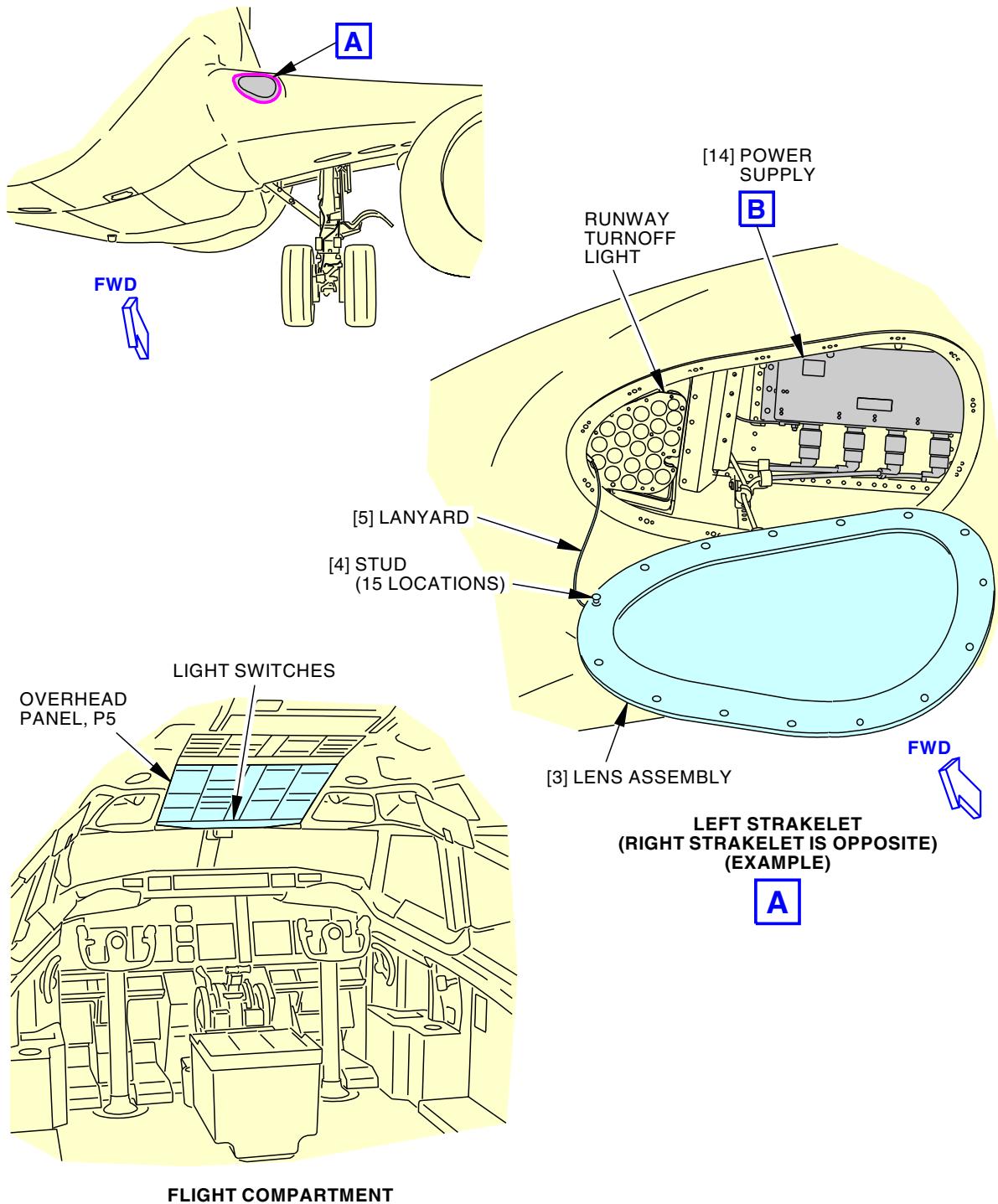
SUBTASK 33-42-01-860-046

- (2) If electrical power is not necessary, then do this task: Remove Electrical Power, TASK 24-22-00-860-812.

———— END OF TASK ———

EFFECTIVITY  
LOM ALL

**33-42-01**



2423169 S0000560284\_V2

**Fixed Landing Light - Power Supply Assembly Replacement**  
**Figure 203/33-42-01-990-810 (Sheet 1 of 2)**

 EFFECTIVITY  
 LOM 462-999

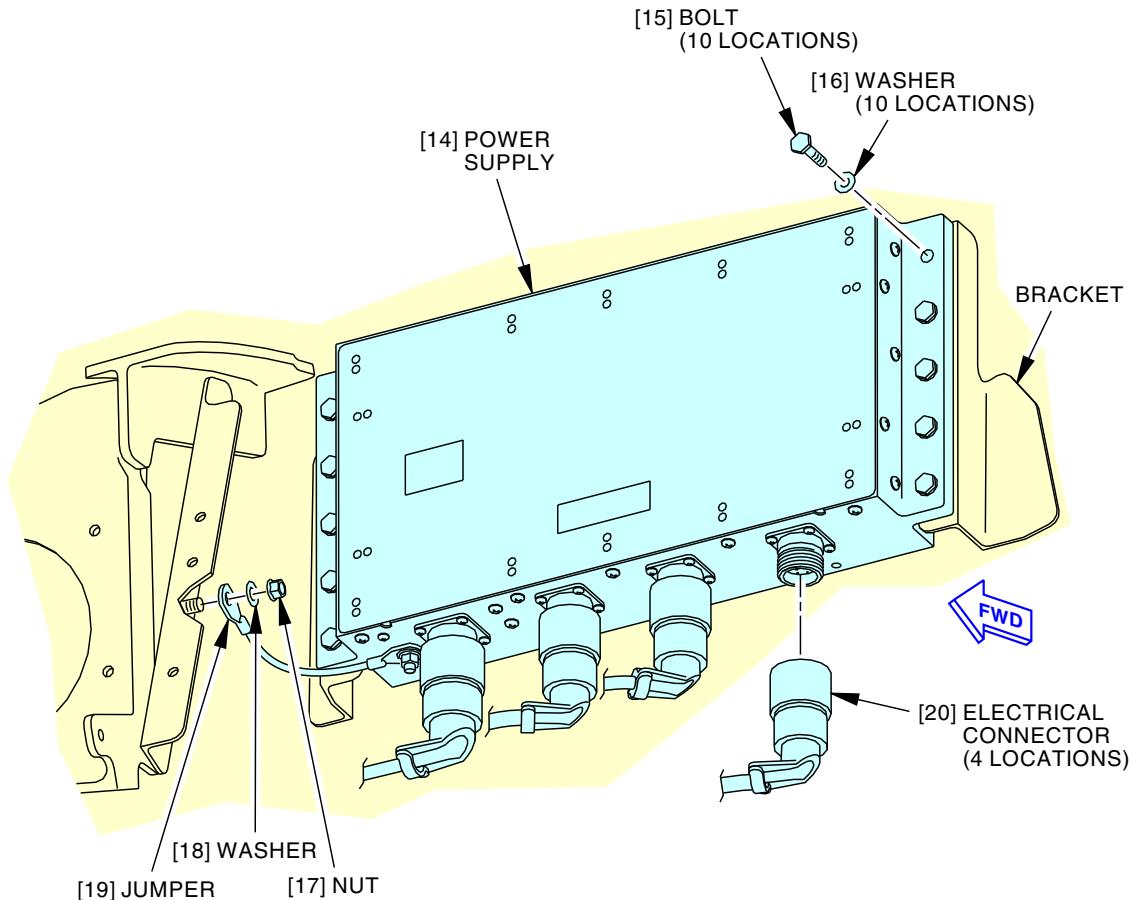
**33-42-01**

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ECCN 9E991 BOEING PROPRIETARY - See title page for details



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LEFT POWER SUPPLY  
(RIGHT POWER SUPPLY IS OPPOSITE)

B

2423170 S0000560285\_V1

Fixed Landing Light - Power Supply Assembly Replacement  
Figure 203/33-42-01-990-810 (Sheet 2 of 2)

EFFECTIVITY  
LOM 462-999

33-42-01

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LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461

**TASK 33-42-01-960-801**

**6. Fixed Landing Light - Lamp Replacement**

(Figure 204)

**A. References**

Reference	Title
27-51-00-040-801	Trailing Edge Flap System Deactivation (P/B 201)
27-51-00-440-801	Trailing Edge Flap System Reactivation (P/B 201)
27-81-00-040-801	Leading Edge Flaps and Slats Deactivation (P/B 201)
27-81-00-440-801	Leading Edge Flaps and Slats - Activation (P/B 201)

**B. Consumable Materials**

Reference	Description	Specification
G02186	Seal - Closed Cell Silicone Foam Rubber, Hydraulic Fluid Resistant	BMS1-68 Form III
G50066	Tape - Thick Ribbed Tape with Adhesive (Skyflex GSC-21-95241-011)	

**C. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
8	Lamp	33-42-01-01A-040	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461

**D. Location Zones**

Zone	Area
511	Left Wing - Leading Edge To Front Spar
611	Right Wing - Leading Edge to Front Spar

**E. Prepare for the Fixed Landing Light Lamp Replacement**

SUBTASK 33-42-01-860-030



**WARNING**

DO THE DEACTIVATION PROCEDURE FOR THE LEADING EDGE FLAPS  
AND SLATS. THE FLAPS AND SLATS MOVE QUICKLY. INJURIES TO  
PERSONNEL, AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Do one of these steps to deactivate the leading edge flaps and slats in the retracted (UP) position:
  - (a) If activation is not necessary to the trailing edge flaps, do this task: Trailing Edge Flap System Deactivation, TASK 27-51-00-040-801.  
NOTE: This task deactivates both the leading edge flaps/slats and the trailing edge flaps.
  - (b) If activation is necessary to the trailing edge flaps, do this task: Leading Edge Flaps and Slats Deactivation, TASK 27-81-00-040-801.  
NOTE: This task only deactivates the leading edge flaps and slats. The trailing edge flaps can still operate.



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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461 (Continued)**

SUBTASK 33-42-01-860-003

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

**CAPT Electrical System Panel, P18-3**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	15	C00271	EXTERIOR LIGHTING LANDING LEFT FIXED
C	14	C00272	EXTERIOR LIGHTING LANDING RIGHT FIXED

**F. Fixed Landing Light Lamp Replacement**

SUBTASK 33-42-01-010-001



**KEEP THE LENS ASSEMBLY [3] AND LANYARD [2] AWAY FROM THE WING LEADING EDGE. THIS WILL PREVENT DAMAGE TO THE WING LEADING EDGE.**

- (1) Loosen the studs [1] and remove the lens assembly [3].

NOTE: The lanyard [2] stays connected.

SUBTASK 33-42-01-960-001

- (2) Do these steps to replace the lamp:

- (a) Remove the screws [10] and the retainer assembly [9].

NOTE: Do not turn the adjustment screws [4].

- (b) Pull the lamp [8] from the housing.

- (c) Disconnect the electrical wires [6] from the terminals [7] behind the lamp.

- 1) Remove the compound from the terminals.

- 2) Make sure that the electrical connections and lamp terminals are clean for good electrical contact.

- (d) Connect the electrical wires [6] to the new lamp.

- (e) To install a new gasket, do these steps:

NOTE: Always install a new gasket during the lamp replacement. Gaskets can become hard when soaked in heat, and a new gasket will help prevent cracks in the lamp.

- 1) Use seal, G02186, as a gasket, wind it completely around the edge of the new lamp without stretching the material (Figure 204).

NOTE: Leave an approximately equal amount of gasket material around both sides of the lamp.

- 2) Fold the gasket edges around the sides of the lamp to fit in the retainer, being careful not to cover too much of the front of the lamp.

- 3) Install additional pieces of seal, G02186, over the index lugs on the back of the lamp to prevent accidental contact with the housing.

- (f) Put the new lamp [8] in the housing.

- 1) Make sure that the lamp filament is in the horizontal position.

EFFECTIVITY  
LOM ALL

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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461 (Continued)**



IF THE SCREWS ARE TOO TIGHT, THE RETAINER WILL BEND.  
DAMAGE TO EQUIPMENT CAN OCCUR.

- (g) Install the retainer assembly [9] and the screws [10].
- 1) Make sure that the notch in the retainer assembly is near the top of the lamp.
  - 2) Tighten the screws to  $25 \pm 1$  in-lb ( $3 \pm 0$  N·m).

SUBTASK 33-42-01-860-004

- (3) 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>
B	15	C00271	EXTERIOR LIGHTING LANDING LEFT FIXED
C	14	C00272	EXTERIOR LIGHTING LANDING RIGHT FIXED

SUBTASK 33-42-01-710-001

- (4) Do a test of the new lamp:
- (a) At the overhead panel, P5, set the switch for the fixed landing light to the ON mode.
    - 1) Make sure that the new lamp comes on.
    - 2) If it is necessary to adjust the light beam, do this task: Fixed Landing Light - Light Beam Adjustment, TASK 33-42-01-820-801.
  - (b) Set the switch to the OFF mode.
    - 1) Make sure that the light goes off.

SUBTASK 33-42-01-410-001

- (5) Do these steps to install the lens assembly:
- (a) If the tape around the perimeter of the lens opening is damaged, do these steps:
    - 1) Remove and discard the damaged tape.
    - 2) Apply Skyflex tape, G50066, around the perimeter of the lens opening.
      - a) If the tape is too long, fold it to fit the opening, but not more than four times.  
NOTE: Do not stretch the tape.
    - 3) Use a sharp tool to make a 0.25 in. (6.35 mm) cut in the tape at the 15 holes.  
NOTE: Make no other cuts to the tape.
  - (b) Install the lens assembly [3] with the studs [1].
    - 1) Tighten each stud from 20 in-lb (2.3 N·m) to 25 in-lb (2.8 N·m).

**G. Put the Airplane Back to Its Usual Condition**

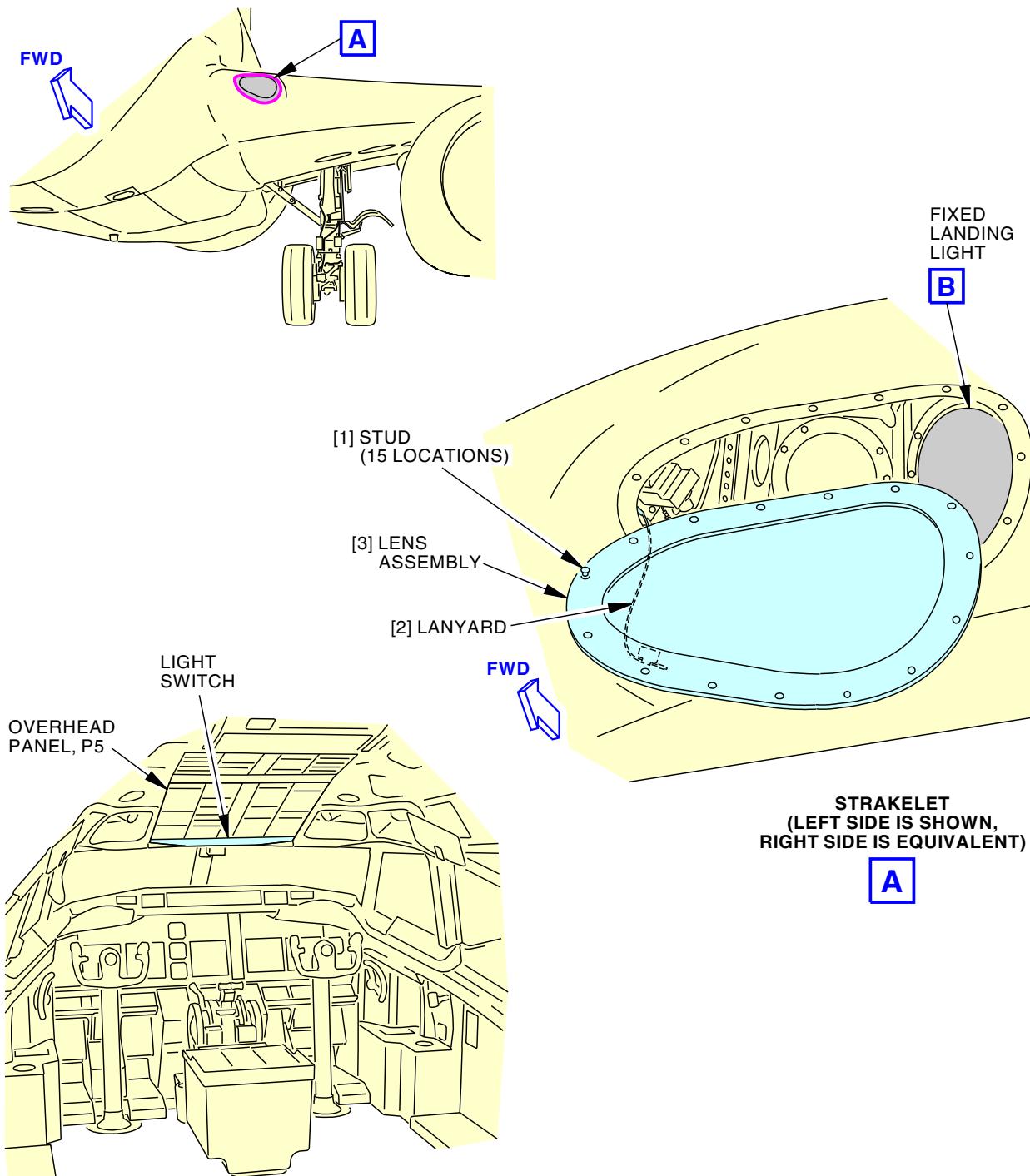
SUBTASK 33-42-01-860-025

- (1) Do these steps to reactivate the leading edge flaps and slats:
- (a) If the trailing edge flaps system was deactivated, do this task: Trailing Edge Flap System Reactivation, TASK 27-51-00-440-801.
  - (b) If the leading edge flaps and slats system was deactivated, do this task: Leading Edge Flaps and Slats - Activation, TASK 27-81-00-440-801.

— END OF TASK —

EFFECTIVITY  
LOM ALL

**33-42-01**



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**Fixed Landing Light - Lamp Replacement**  
**Figure 204/33-42-01-990-801 (Sheet 1 of 2)**

EFFECTIVITY  
 LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
 422-434, 437-447, 450-461

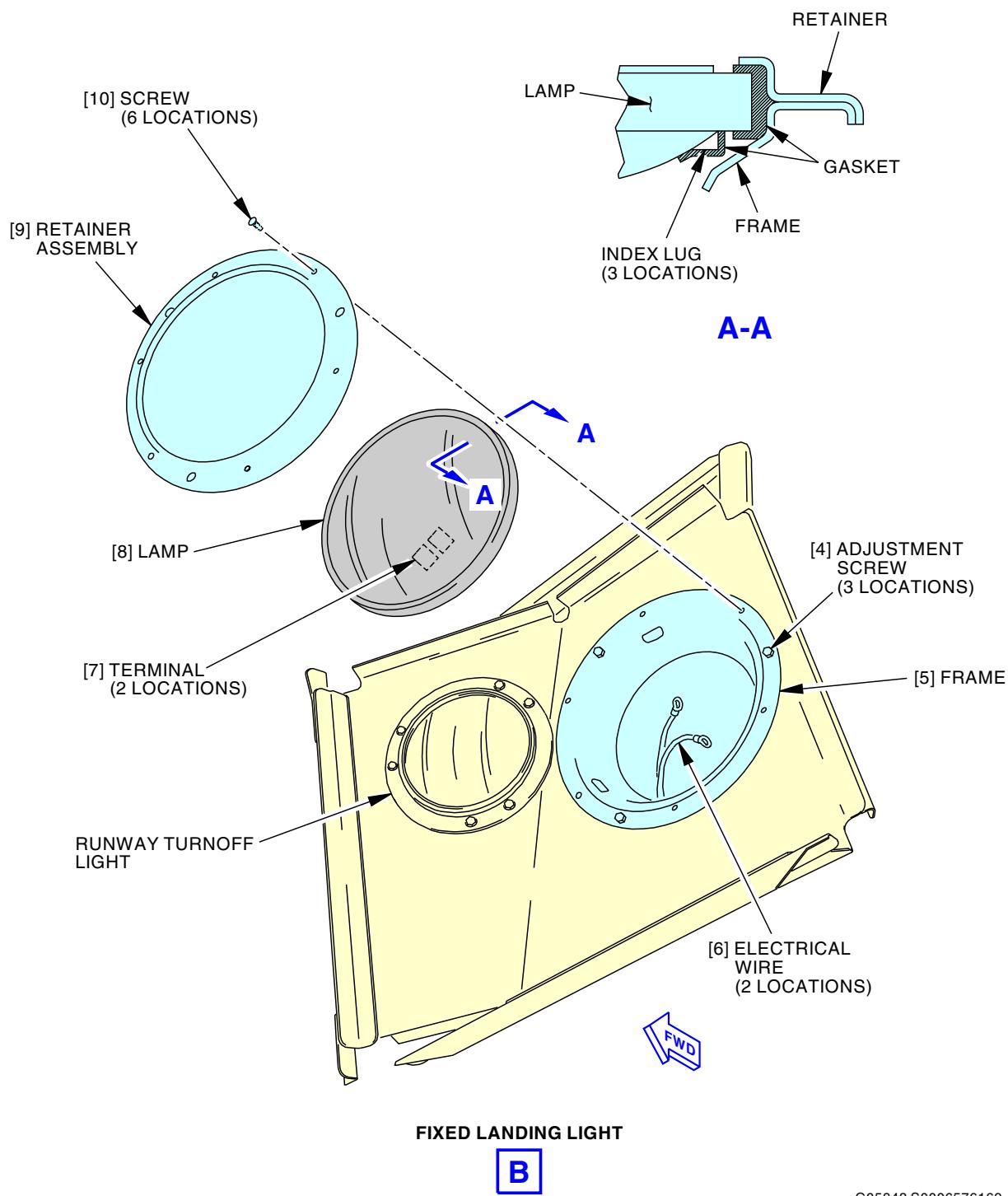
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FIXED LANDING LIGHT

B

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Fixed Landing Light - Lamp Replacement  
Figure 204/33-42-01-990-801 (Sheet 2 of 2)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-461

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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461 (Continued)**

**TASK 33-42-01-820-801**

**7. Fixed Landing Light - Light Beam Adjustment**

(Figure 205)

**A. References**

<b>Reference</b>	<b>Title</b>
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
27-51-00-040-801	Trailing Edge Flap System Deactivation (P/B 201)
27-51-00-440-801	Trailing Edge Flap System Reactivation (P/B 201)
27-81-00-040-801	Leading Edge Flaps and Slats Deactivation (P/B 201)
27-81-00-440-801	Leading Edge Flaps and Slats - Activation (P/B 201)

**B. Consumable Materials**

<b>Reference</b>	<b>Description</b>	<b>Specification</b>
G50066	Tape - Thick Ribbed Tape with Adhesive (Skyflex GSC-21-95241-011)	

**C. Location Zones**

<b>Zone</b>	<b>Area</b>
511	Left Wing - Leading Edge To Front Spar
611	Right Wing - Leading Edge to Front Spar

**D. Procedure**

**SUBTASK 33-42-01-940-001**

- (1) Make sure the airplane and test area are approximately level.

**SUBTASK 33-42-01-940-002**

- (2) Set up a marker at the TARGET point shown in Figure 205.

**NOTE:** A marker can be any item large enough to be seen from a distance.

**SUBTASK 33-42-01-860-022**



**WARNING**

DO THE DEACTIVATION PROCEDURE FOR THE LEADING EDGE FLAPS AND SLATS. THE FLAPS AND SLATS MOVE QUICKLY. INJURIES TO PERSONNEL, AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (3) Do one of these steps to deactivate the leading edge flaps and slats in the retracted (UP) position:

- (a) If activation is not necessary to the trailing edge flaps, do this task: Trailing Edge Flap System Deactivation, TASK 27-51-00-040-801.

**NOTE:** This task deactivates both the leading edge flaps/slats and the trailing edge flaps.

- (b) If activation is necessary to the trailing edge flaps, do this task: Leading Edge Flaps and Slats Deactivation, TASK 27-81-00-040-801.

**NOTE:** This task only deactivates the leading edge flaps and slats. The trailing edge flaps can still operate.

EFFECTIVITY  
LOM ALL

**33-42-01**



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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461 (Continued)**

SUBTASK 33-42-01-860-007

- (4) Make sure the airplane is supplied with electrical power. To supply it, do this task: Supply Electrical Power, TASK 24-22-00-860-811.

SUBTASK 33-42-01-010-002

- (5) Loosen the studs [1] and remove the lens assembly [3].

NOTE: The lanyard [2] stays connected.

NOTE: Keep the lens assembly [3] and lanyard [2] away from the wing leading edge.

SUBTASK 33-42-01-860-009



TO PREVENT DECREASED LAMP LIFE, DO NOT OPERATE THE LIGHT  
WHEN IT IS NOT NECESSARY.

**CAUTION**

- (6) At the overhead panel, P5, set the applicable switch for the fixed landing light to the on mode.

SUBTASK 33-42-01-820-001

- (7) Do these steps to adjust the light beam:

- (a) Turn the adjustment screws [4] on the retainer until the light beam is on the target.

NOTE: Each adjustment screw must be installed tightly against the frame [5].

SUBTASK 33-42-01-860-010

- (8) At the P5 panel, set the switch for the fixed landing light to the off mode.

SUBTASK 33-42-01-410-002

- (9) Do these steps to install the lens assembly:

- (a) If the tape around the perimeter of the lens opening is damaged, do these steps:

1) Remove and discard the damaged tape.

2) Apply Skyflex tape, G50066, around the perimeter of the lens opening.

a) If the tape is too long, fold it to fit the opening, but not more than four times.

NOTE: Do not stretch the tape.

3) Use a sharp tool to make a 0.25 in. (6.35 mm) cut in the tape at the 15 holes.

NOTE: Make no other cuts to the tape.

- (b) Install the lens assembly [3] with the studs [1].

1) Tighten each stud from 20 in-lb (2 N·m) to 25 in-lb (3 N·m).

SUBTASK 33-42-01-860-023

- (10) Do these steps to reactivate the leading edge flaps and slats:

(a) If the trailing edge flaps system was deactivated, do this task: Trailing Edge Flap System Reactivation, TASK 27-51-00-440-801.

(b) If the leading edge flaps and slats system was deactivated, do this task: Leading Edge Flaps and Slats - Activation, TASK 27-81-00-440-801.

SUBTASK 33-42-01-860-012

- (11) If it is not necessary, remove electrical power. To remove it, do this task: Remove Electrical Power, TASK 24-22-00-860-812.

EFFECTIVITY  
LOM ALL

**33-42-01**



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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461 (Continued)**

SUBTASK 33-42-01-940-003

- (12) Remove the marker.

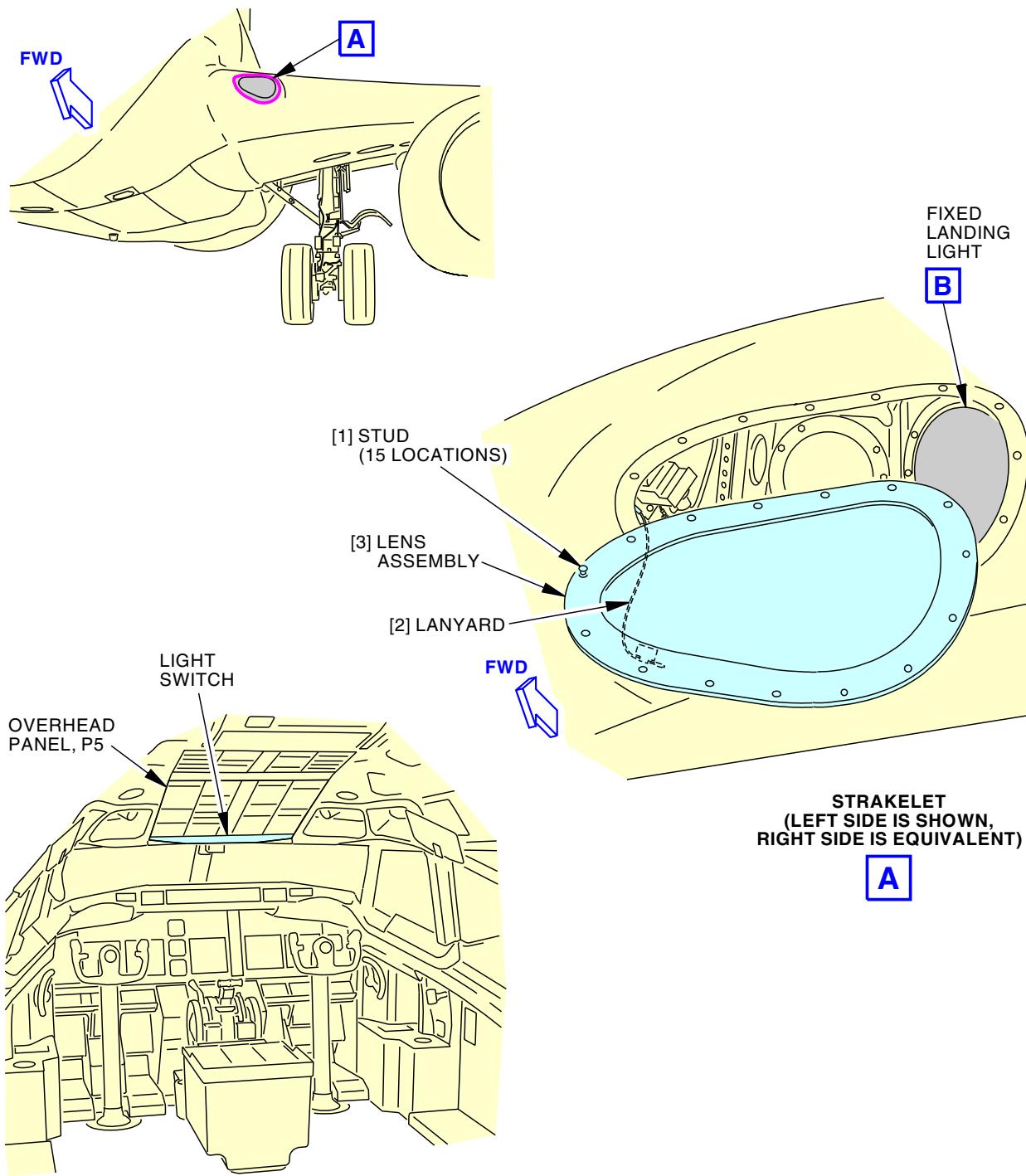
———— END OF TASK ————

———— EFFECTIVITY ————  
**LOM ALL**

**33-42-01**

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**Fixed Landing Light - Light Beam Adjustment**  
**Figure 205/33-42-01-990-802 (Sheet 1 of 2)**

EFFECTIVITY  
 LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
 422-434, 437-447, 450-461

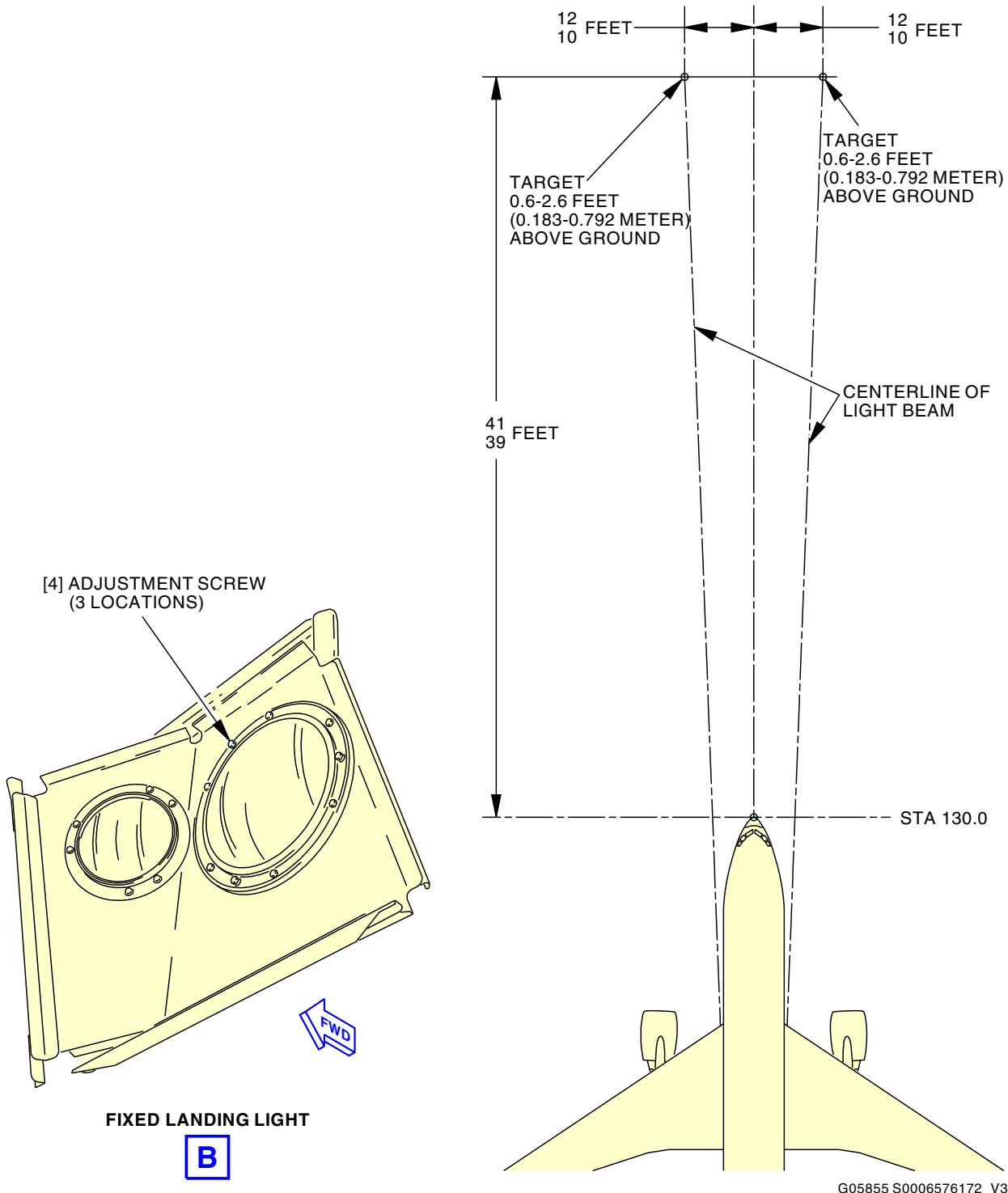
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Fixed Landing Light - Light Beam Adjustment  
Figure 205/33-42-01-990-802 (Sheet 2 of 2)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-461

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LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461 (Continued)

**TASK 33-42-01-960-802**

**8. Fixed Landing Light - Transformer Replacement**

(Figure 206)

**A. References**

Reference	Title
20-10-47-390-801	Seal the Unprotected Terminals (P/B 201)
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
27-51-00-040-801	Trailing Edge Flap System Deactivation (P/B 201)
27-51-00-440-801	Trailing Edge Flap System Reactivation (P/B 201)
27-81-00-040-801	Leading Edge Flaps and Slats Deactivation (P/B 201)
27-81-00-440-801	Leading Edge Flaps and Slats - Activation (P/B 201)
WDM 33-42-11	Wiring Diagram Manual

**B. Consumable Materials**

Reference	Description	Specification
G50066	Tape - Thick Ribbed Tape with Adhesive (Skyflex GSC-21-95241-011)	

**C. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
42	Transformer	33-42-11-01-010	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461

**D. Location Zones**

Zone	Area
511	Left Wing - Leading Edge To Front Spar
611	Right Wing - Leading Edge to Front Spar

**E. Procedure**

SUBTASK 33-42-01-860-026



DO THE DEACTIVATION PROCEDURE FOR THE LEADING EDGE FLAPS AND SLATS. THE FLAPS AND SLATS MOVE QUICKLY. INJURIES TO PERSONNEL, AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Do one of these steps to deactivate the leading edge flaps and slats in the retracted (UP) position:
  - (a) If activation is not necessary to the trailing edge flaps, do this task: Trailing Edge Flap System Deactivation, TASK 27-51-00-040-801.  
NOTE: This task deactivates both the leading edge flaps/slats and the trailing edge flaps.
  - (b) If activation is necessary to the trailing edge flaps, do this task: Leading Edge Flaps and Slats Deactivation, TASK 27-81-00-040-801.  
NOTE: This task only deactivates the leading edge flaps and slats. The trailing edge flaps can still operate.

EFFECTIVITY
LOM ALL

**33-42-01**



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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461 (Continued)**

SUBTASK 33-42-01-860-015

- (2) Open the applicable circuit breaker and install the safety tag:  
(WDM 33-42-11)

**CAPT Electrical System Panel, P18-3**

Row    Col    Number    Name

B	15	C00271	EXTERIOR LIGHTING LANDING LEFT FIXED
C	14	C00272	EXTERIOR LIGHTING LANDING RIGHT FIXED

SUBTASK 33-42-01-010-003

- (3) Loosen the studs [1] and remove the lens assembly [3].

NOTE: The lanyard [2] stays connected.

NOTE: Keep the lens assembly [3] and lanyard [2] away from the wing leading edge.

SUBTASK 33-42-01-960-002

- (4) Do these steps to replace the transformer:

- (a) Loosen the nuts and disconnect the electrical wires [41] from the transformer [42].

- 1) Remove the compound from the terminals (Seal the Unprotected Terminals, TASK 20-10-47-390-801).

- (b) Remove the screws [43].

- (c) Replace the transformer [42].

- (d) Install the screws [43].

- (e) Connect the electrical wires [41] to the new transformer and tighten the nuts.

NOTE: Use the nuts on the new transformer.

- 1) To seal the terminals, do this task: Seal the Unprotected Terminals, TASK 20-10-47-390-801.

NOTE: Sealing is necessary on the transformer terminals for corrosion protection.

SUBTASK 33-42-01-860-016

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

**CAPT Electrical System Panel, P18-3**

Row    Col    Number    Name

B	15	C00271	EXTERIOR LIGHTING LANDING LEFT FIXED
C	14	C00272	EXTERIOR LIGHTING LANDING RIGHT FIXED

SUBTASK 33-42-01-860-013

- (6) Make sure that the electrical power is supplied to the airplane. To supply it, do this task: Supply Electrical Power, TASK 24-22-00-860-811.

SUBTASK 33-42-01-710-002

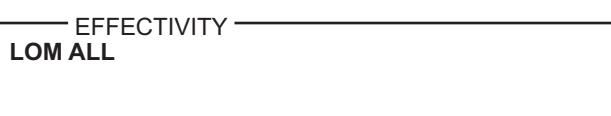
- (7) Do a test of the new transformer.

- (a) At the overhead panel, P5, set the switch for the fixed landing light to the on mode.

- 1) Make sure that the light connected to the transformer comes on.

- (b) Set the switch to the off mode.

- 1) Make sure the light goes off.



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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461 (Continued)**

SUBTASK 33-42-01-410-003

- (8) Do these steps to install the lens assembly:

- (a) If the tape around the perimeter of the lens opening is damaged, do these steps:
  - 1) Remove and discard the damaged tape.
  - 2) Apply Skyflex tape, G50066, around the perimeter of the lens opening.
    - a) If the tape is too long, fold it to fit the opening, but not more than four times.  
NOTE: Do not stretch the tape.
  - 3) Use a sharp tool to make a 0.25 in. (6.35 mm) cut in the tape at the 15 holes.  
NOTE: Make no other cuts to the tape.
- (b) Install the lens assembly [3] with the studs [1].
  - 1) Tighten each stud from 20 in-lb (2 N·m) to 25 in-lb (3 N·m).

SUBTASK 33-42-01-860-027

- (9) Do these steps to reactivate the leading edge flaps and slats:

- (a) If the trailing edge flaps system was deactivated, do this task: Trailing Edge Flap System Reactivation, TASK 27-51-00-440-801.
- (b) If the leading edge flaps and slats system was deactivated, do this task: Leading Edge Flaps and Slats - Activation, TASK 27-81-00-440-801.

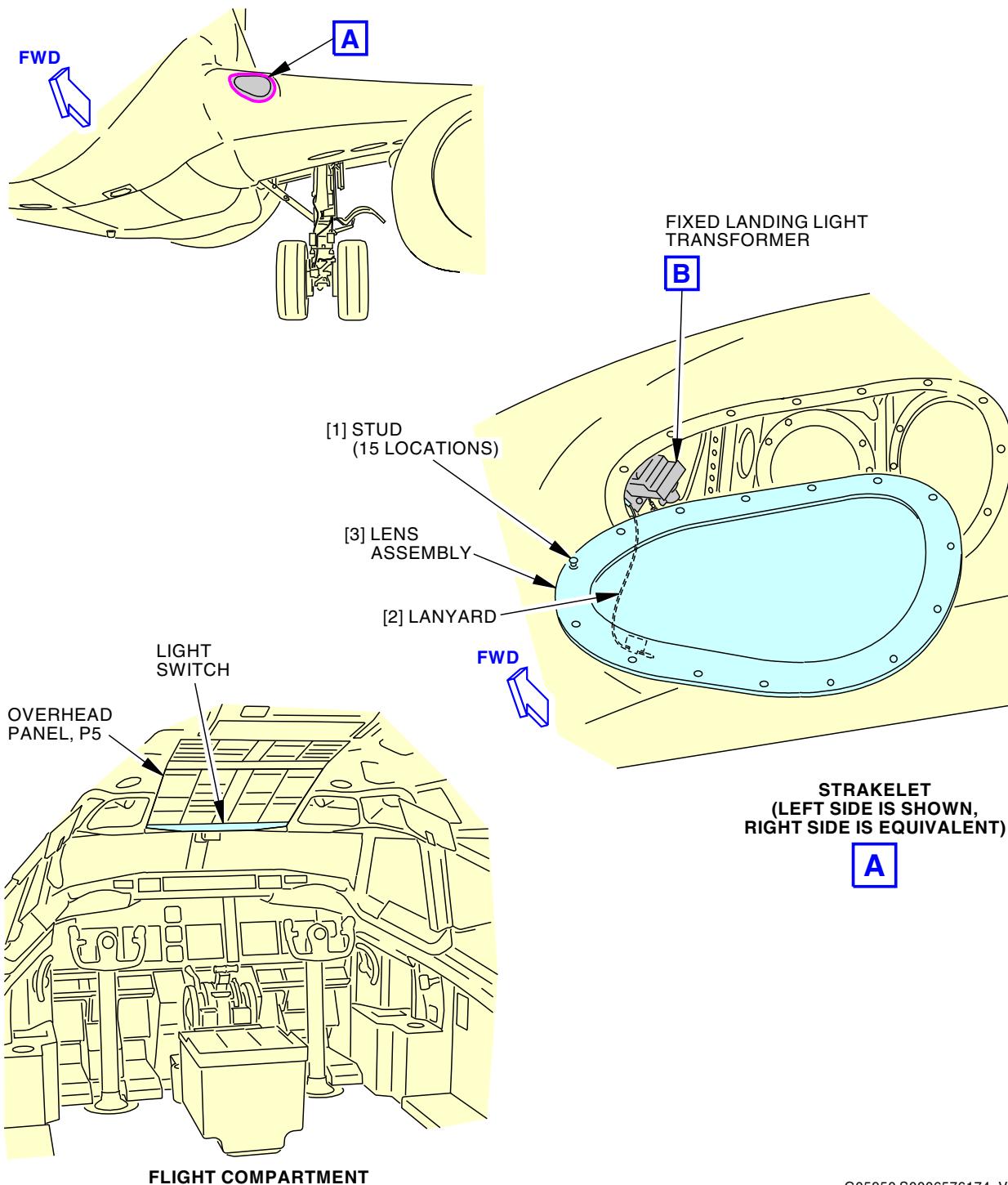
SUBTASK 33-42-01-860-018

- (10) If it is not necessary, remove electrical power. To remove it, do this task: Remove Electrical Power, TASK 24-22-00-860-812.

———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-42-01**



G05950 S0006576174\_V2

**Fixed Landing Light - Transformer Replacement**  
Figure 206/33-42-01-990-803 (Sheet 1 of 2)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-461

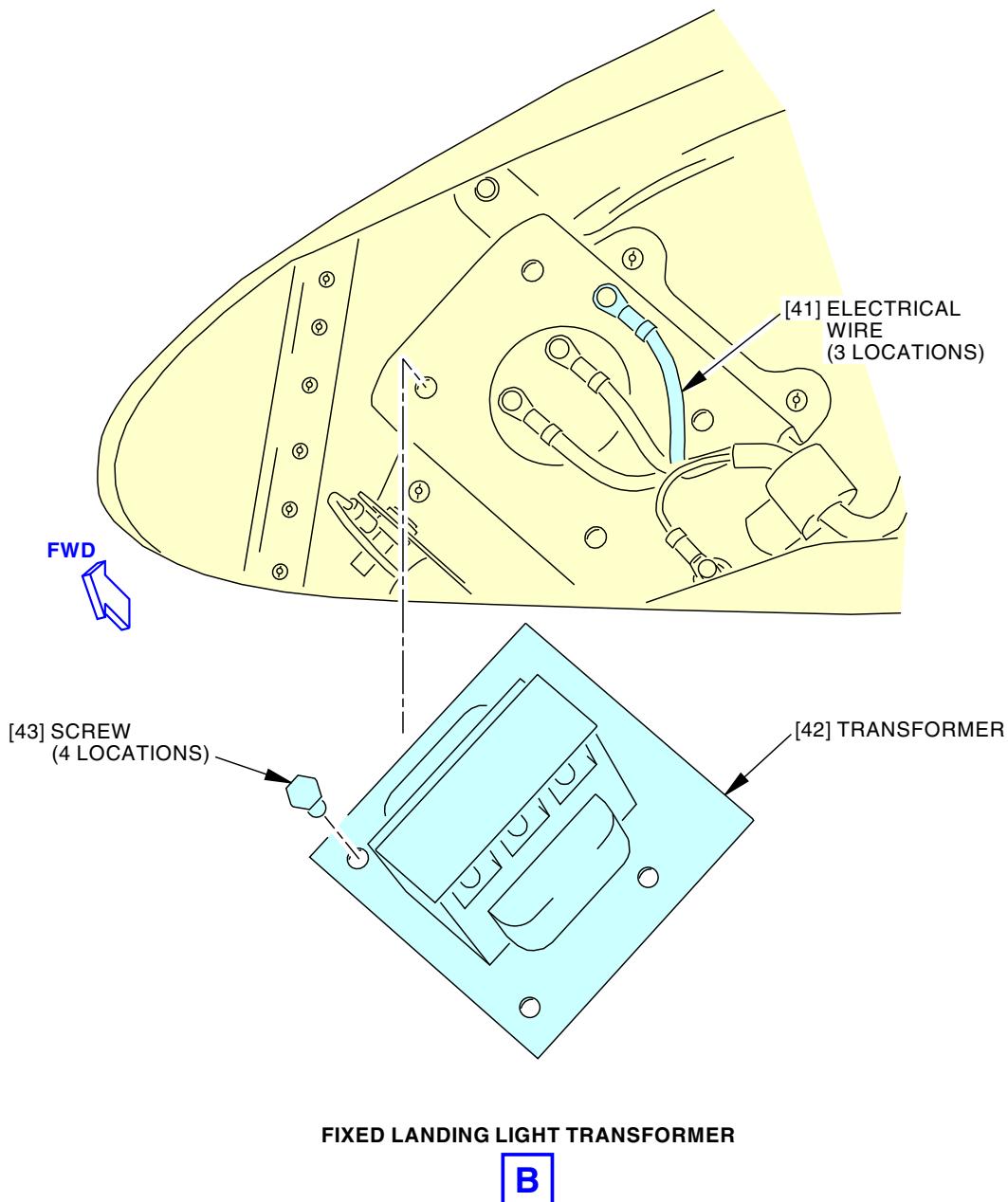
**33-42-01**

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ECCN 9E991 BOEING PROPRIETARY - See title page for details



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FIXED LANDING LIGHT TRANSFORMER

B

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Fixed Landing Light - Transformer Replacement  
Figure 206/33-42-01-990-803 (Sheet 2 of 2)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-461

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LOM ALL

**TASK 33-42-01-350-801**

**9. Fixed Landing Light - Lens Temporary Repair**

(Figure 207)

**A. General**

- (1) Use this task to make a temporary cover for the fixed landing light when the lens assembly is broken and no spare is available.

**B. References**

Reference	Title
27-51-00-040-801	Trailing Edge Flap System Deactivation (P/B 201)
27-51-00-440-801	Trailing Edge Flap System Reactivation (P/B 201)
27-81-00-040-801	Leading Edge Flaps and Slats Deactivation (P/B 201)
27-81-00-440-801	Leading Edge Flaps and Slats - Activation (P/B 201)

**C. Consumable Materials**

Reference	Description	Specification
G00111	Sheet - Mylar	
G00270	Tape - Scotch Flatback Masking 250	ASTM D6123 (Supersedes A-A-883)
G02042	Material - Aluminum Alloy 2024 Sheet	MS14361
G02329	Tape - Aluminum Foil, Pressure Sensitive - Vibration Damping Tape 434	

**D. Location Zones**

Zone	Area
511	Left Wing - Leading Edge To Front Spar
611	Right Wing - Leading Edge to Front Spar

**E. Prepare for the Fixed Landing Light Lens Temporary Repair**

SUBTASK 33-42-01-860-028



**WARNING**

DO THE DEACTIVATION PROCEDURE FOR THE LEADING EDGE FLAPS AND SLATS. THE FLAPS AND SLATS MOVE QUICKLY. INJURIES TO PERSONNEL, AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Do one of these steps to deactivate the leading edge flaps and slats in the retracted (UP) position:
- If activation is not necessary to the trailing edge flaps, do this task: Trailing Edge Flap System Deactivation, TASK 27-51-00-040-801.  
NOTE: This task deactivates both the leading edge flaps/slats and the trailing edge flaps.
  - If activation is necessary to the trailing edge flaps, do this task: Leading Edge Flaps and Slats Deactivation, TASK 27-81-00-040-801.  
NOTE: This task only deactivates the leading edge flaps and slats. The trailing edge flaps can still operate.



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SUBTASK 33-42-01-860-020

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

**CAPT Electrical System Panel, P18-3**

Row   Col   Number   Name

**LOM 462-999**

B      14      C01968      EXTERIOR LIGHTING LTRTL - RIGHT

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461**

B      15      C00271      EXTERIOR LIGHTING LANDING LEFT FIXED

**LOM 462-999**

B      15      C01969      EXTERIOR LIGHTING LTRTL - LEFT

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461**

C      12      C00245      EXT LIGHTING RUNWAY TURNOFF RIGHT

C      13      C00244      EXTERIOR LIGHTING RUNWAY TURNOFF LEFT

C      14      C00272      EXTERIOR LIGHTING LANDING RIGHT FIXED

**LOM ALL**

**F. Fixed Landing Light Lens Temporary Repair**

SUBTASK 33-42-01-020-001

- (1) Do these steps to remove the broken lens assembly [3]:  
(a) Loosen the studs [1].  
(b) Disconnect the lanyard [2].

SUBTASK 33-42-01-020-002

- (2) Remove the broken lens assembly from the airplane.  
(3) Disassemble the studs [1] and rings [4] from the lens assembly [3].  
(a) Keep the studs [1] for the installation of the temporary cover [5].

SUBTASK 33-42-01-350-001

- (4) Do these steps to make a temporary cover [5]:  
(a) Make a four-piece mylar template.
  - 1) Cut the mylar sheet, G00111, into four strips.
  - 2) Make each mylar strip align with the contour of the broken lens assembly [3] then attach the strips with the Scotch Flatback Masking Tape 250, G00270.  
NOTE: The edges between adjacent mylar strips align on the flange, midway between the fastener holes and perpendicular to the rim.
  - 3) Cut the mylar strips the same as the rim around the lens assembly [3].
  - 4) Carefully make a mark for each fastener holes.
  - 5) Remove the mylar strips from the lens assembly [3].  
(b) Make the four-piece temporary cover [5] the same as the mylar template.
  - 1) Make the temporary cover from aluminum sheet material, G02042 0.094 ±0.031 in. (2.388 ±0.788 mm) thick.
  - 2) Drill 0.274 ±0.006 in. (6.960 ±0.153 mm) diameter holes and countersink to 0.4015 ±0.0025 in. (10.1981 ±0.0635 mm) diameter x 100 degree head.
  - 3) If the thickness of the aluminum material is less than 0.09 in. (2.29 mm), make a shim out of similar material in the shape of the rim.



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SUBTASK 33-42-01-350-002

- (5) Do these steps to install the temporary cover [5]:

- (a) Make each aluminum strip align with the contour of the broken lens assembly.
- (b) Attach the shim (if one is necessary) and each aluminum strip with the studs [1].

NOTE: Do not use the ring [4].

- 1) Bring the aluminum strips up to contour,  $0.126 \pm 0.040$  in. ( $3.200 \pm 1.016$  mm).

- (c) Cover all gaps with speed Vibration Damping Tape 434 tape, G02329.

NOTE: The gaps between the aluminum strips should be  $0.10 \pm 0.10$  in. ( $2.54 \pm 2.54$  mm) wide. The gaps between the aluminum strips and the opening should be  $0.060 \pm 0.060$  in. ( $1.524 \pm 1.524$  mm) wide.

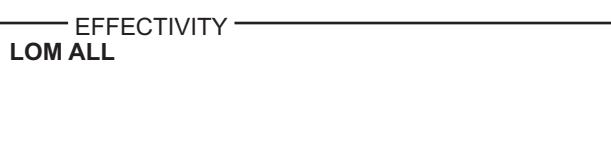
## G. Put the Airplane Back to Its Usual Condition

SUBTASK 33-42-01-860-029

- (1) Do these steps to reactivate the leading edge flaps and slats:

- (a) If the trailing edge flaps system was deactivated, do this task: Trailing Edge Flap System Reactivation, TASK 27-51-00-440-801.
- (b) If the leading edge flaps and slats system was deactivated, do this task: Leading Edge Flaps and Slats - Activation, TASK 27-81-00-440-801.

———— END OF TASK ————

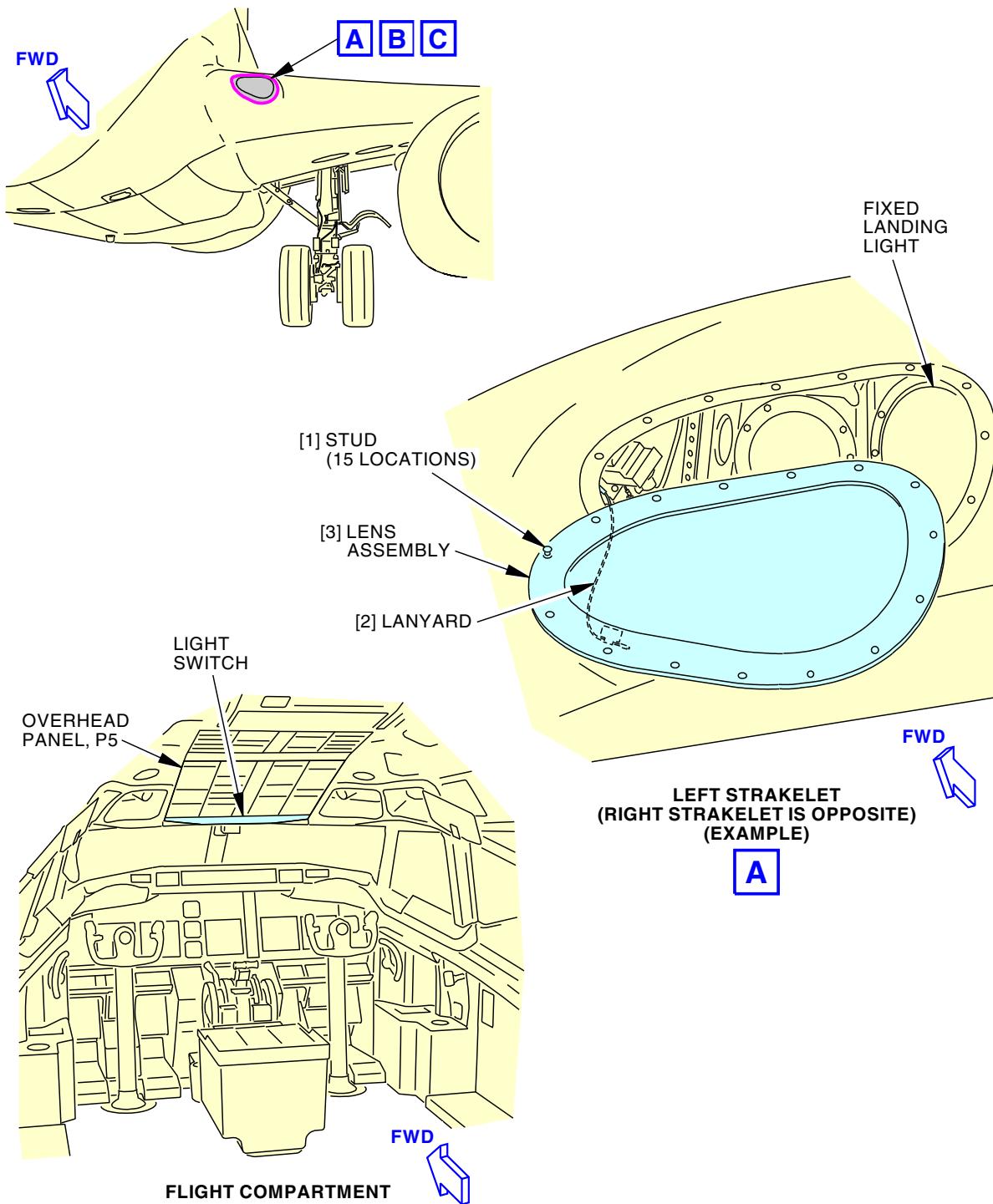


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**Fixed Landing Light - Lens Temporary Repair**  
**Figure 207/33-42-01-990-804 (Sheet 1 of 2)**

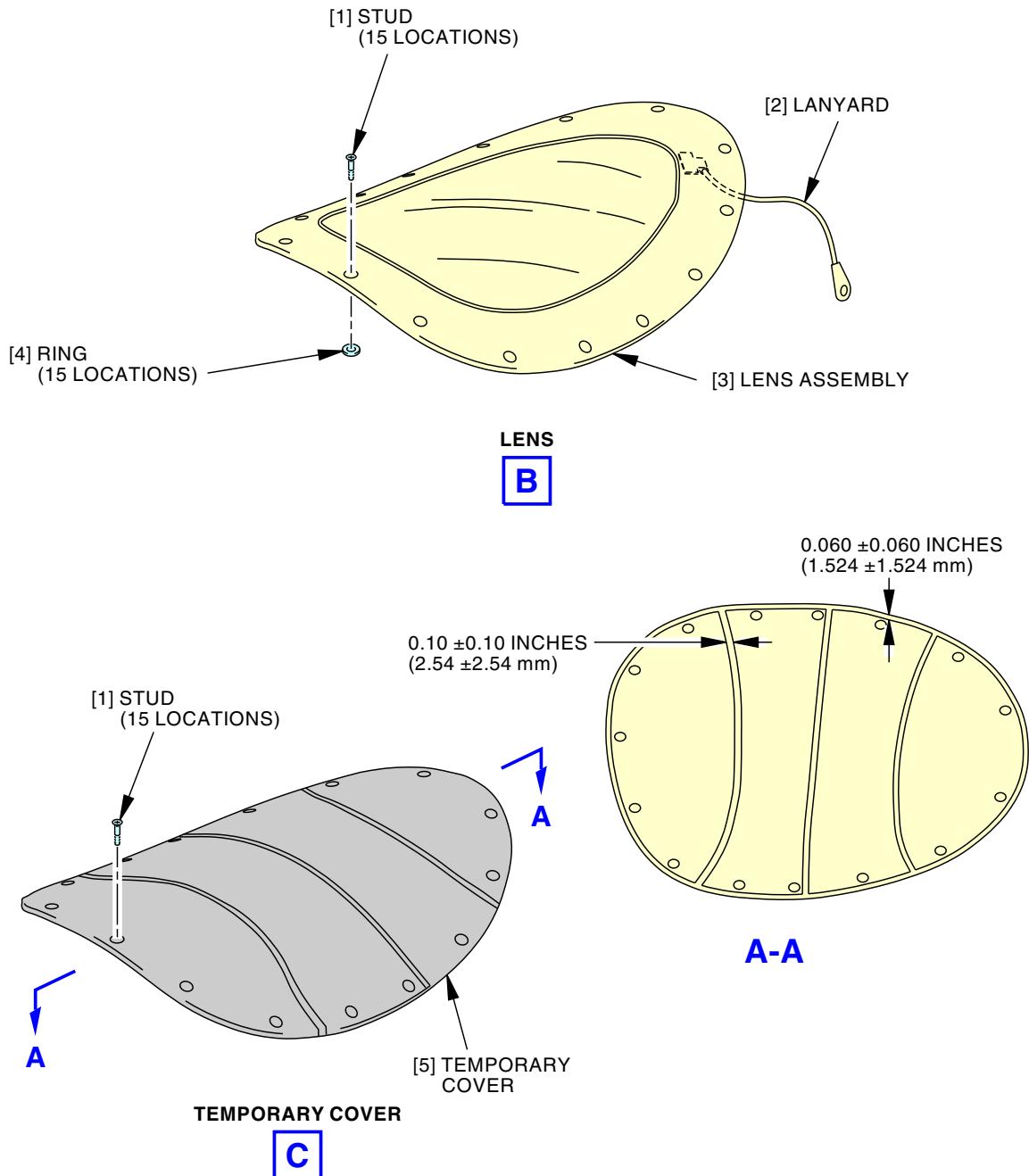
 EFFECTIVITY  
 LOM ALL

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AIRCRAFT MAINTENANCE MANUAL



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Fixed Landing Light - Lens Temporary Repair  
Figure 207/33-42-01-990-804 (Sheet 2 of 2)

EFFECTIVITY  
LOM ALL

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FIXED LANDING LIGHTS - ADJUSTMENT/TEST

**1. General**

- A. This procedure has this task:
- (1) LTRTL Main Array - Operational Test.

**TASK 33-42-01-700-801**

**2. LTRTL Main Array - Operational Test**

**A. General**

- (1) This task contains the steps for the operational test for the main array.
- (2) The main array has the inboard and outboard arrays.
- (3) The operational test is automated by the power supply.
- (4) The inboard or outboard array automatically goes off if the power supply senses less than 50% of the nominal voltage.
- (5) It is recommended to replace the inboard or outboard array if more than 18 LEDs do not operate correctly.

NOTE: The inboard or outboard array can operate with unserviceable LEDs.

**B. References**

Reference	Title
33-42-01-040-801	Fixed Landing Light - Deactivation (P/B 201)
33-42-01-440-801	Fixed Landing Light - Activation (P/B 201)

**C. Prepare for the Operational Test**

SUBTASK 33-42-01-440-002

- (1) Operate the main arrays, do this task: Fixed Landing Light - Activation, TASK 33-42-01-440-801.

**D. LTRTL Main Array Operational Test**

SUBTASK 33-42-01-710-011



DO NOT LOOK DIRECTLY AT LIGHTS. HIGH INTENSITY OF LIGHTS CAN CAUSE EYE DAMAGE.

**WARNING**

- (1) Do these steps to test the main arrays:
  - (a) Set the left LANDING switch, on the P5 overhead panel, to the ON position.
    - 1) Make sure that the left main array comes on.
  - (b) Set the left LANDING switch, on the P5 overhead panel, to the OFF position.
    - 1) Make sure that the left main array goes off.
  - (c) Set the right LANDING switch, on the P5 overhead panel, to the ON position.
    - 1) Make sure that the right main array comes on.
  - (d) Set the right LANDING switch, on the P5 overhead panel, to the OFF position.
    - 1) Make sure that the right main array goes off.
  - (e) Set the TAXI switch, on the P5 overhead panel, to the AUTO or ON position.

EFFECTIVITY  
LOM 462-999

**33-42-01**



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- 1) Make sure that both right and left main arrays come on.

NOTE: When the TAXI switch is in the AUTO or ON position, the intensity of the main array is less than when the LANDING switches are in the ON position.

- (f) Set the TAXI switch, on the P5 overhead panel, to the OFF position.

- 1) Make sure that both right and left main arrays go off.

**E. Put the Airplane Back to Its Usual Condition**

SUBTASK 33-42-01-040-002

- (1) Deactivate the main arrays, do this task: Fixed Landing Light - Deactivation, TASK 33-42-01-040-801.

NOTE: It is not necessary to do this task if deactivation of the LTRTL main array is not needed.

———— END OF TASK ——

— EFFECTIVITY —  
LOM 462-999

**33-42-01**



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RETRACTABLE LANDING LIGHTS - MAINTENANCE PRACTICES

**1. General**

- A. This procedure has these tasks:

NOTE: The procedures and instructions listed below apply for either a flat or curved lens assembly, whichever is installed.

- (1) Retractable Landing Light Deactivation
- (2) Retractable Landing Light Activation
- (3) Retractable Landing Light - Lamp Replacement
- (4) Retractable Landing Light - Retainer Assembly Removal/Installation
- (5) Retractable Landing Light - Light Assembly Replacement
- (6) Retractable Landing Light - Light Adjustment
- (7) Retractable Landing Light - Lens Assembly Replacement.

NOTE: This procedure is for airplanes with retractable landing light lens assembly 72464199-1 installed.

**TASK 33-42-02-040-801**

**2. Retractable Landing Light - Deactivation**

(Figure 201)

**A. General**

- (1) This procedure removes the electrical power to the retractable landing lights.

**B. Location Zones**

Zone	Area
123	Forward Cargo Compartment - Left
124	Forward Cargo Compartment - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

**C. Procedure**

SUBTASK 33-42-02-860-016

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

**CAPT Electrical System Panel, P18-3**

Row	Col	Number	Name
B	14	C00274	EXTERIOR LIGHTING LANDING RIGHT RETR
C	15	C00273	EXTERIOR LIGHTING LANDING LEFT RETR

**D. Retractable Landing Light - Tryout**

NOTE: This tryout is to make sure the Retractable Landing light is in a zero energy state.

SUBTASK 33-42-02-200-001

- (1) Do the following steps to make sure the power is off:

- (a) At the overhead panel, P5, set the retractable landing lights switch to the ON Position
- (b) Make sure the retractable landing lights are off.

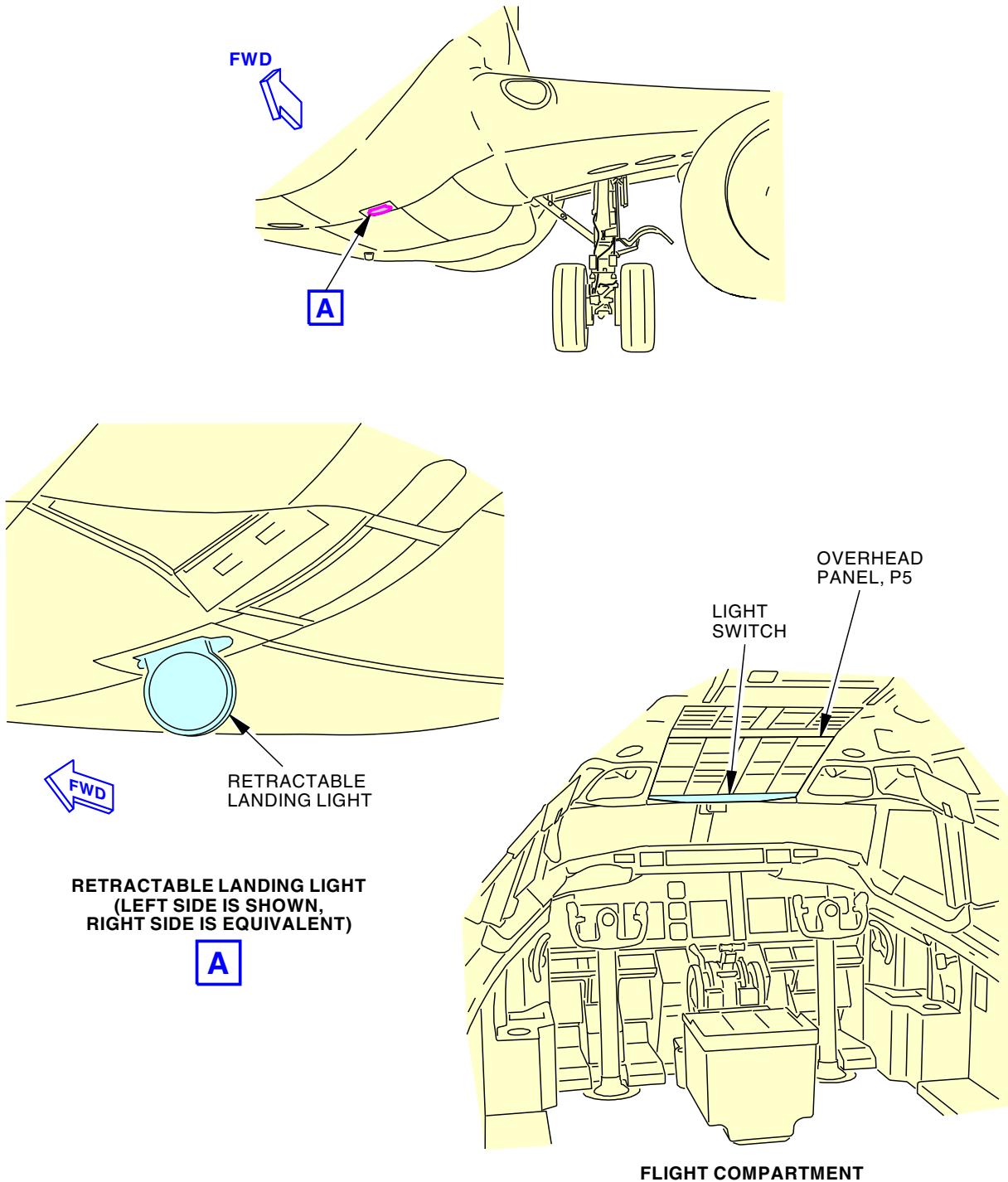
———— END OF TASK ————

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-461

**33-42-02**



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**Retractable Landing Lights**  
Figure 201/33-42-02-990-806

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-461

**33-42-02**

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**TASK 33-42-02-440-801**

**3. Retractable Landing Light - Activation**

(Figure 201)

**A. General**

- (1) This procedure adds electrical power to the retractable landing lights.

**B. Location Zones**

Zone	Area
123	Forward Cargo Compartment - Left
124	Forward Cargo Compartment - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

**C. Procedure**

SUBTASK 33-42-02-860-017

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

**CAPT Electrical System Panel, P18-3**

Row	Col	Number	Name
B	14	C00274	EXTERIOR LIGHTING LANDING RIGHT RETR
C	15	C00273	EXTERIOR LIGHTING LANDING LEFT RETR

— END OF TASK —

**TASK 33-42-02-960-801**

**4. Retractable Landing Light - Lamp Replacement**

(Figure 202)

**A. General**

- (1) This procedure replaces the lamp while the light is in the retracted position.

**B. References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
WDM 33-42-11	Wiring Diagram Manual

**C. Consumable Materials**

Reference	Description	Specification
C00528	Compound - Corrosion Preventive, Petroleum Hot Application (Soft Film)	MIL-C-11796 Class III

**D. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
2	Lamp	33-42-02-01-089	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461
		33-42-02-01-090	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461

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(Continued)

AMM Item	Description	AIPC Reference	AIPC Effectivity
2 (cont.)		33-42-02-01-320	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461

**E. Location Zones**

Zone	Area
123	Forward Cargo Compartment - Left
124	Forward Cargo Compartment - Right

**F. Retractable Landing Light Lamp Replacement**

SUBTASK 33-42-02-860-003

- (1) Open the applicable circuit breaker and install the safety tag:  
(WDM 33-42-11)

**CAPT Electrical System Panel, P18-3**

Row	Col	Number	Name
B	14	C00274	EXTERIOR LIGHTING LANDING RIGHT RETR
C	15	C00273	EXTERIOR LIGHTING LANDING LEFT RETR

SUBTASK 33-42-02-960-001

- (2) Do these steps to replace the lamp:
  - (a) Loosen the fasteners [5].
  - (b) Pull the retainer assembly [1] and lamp [2] from the housing.  
**NOTE:** The lanyard [6] stays connected.
  - (c) Disconnect the electrical wires [3] from the back of the lamp.
  - (d) Remove the lamp [2].
  - (e) Connect the electrical wires [3] to the new lamp.
  - (f) Do these steps to install the new lamp [2] against the back of the retainer assembly [1]:
    - 1) If a rubber cushion [4] on the housing of the retainer assembly is worn, do this task:  
Retractable Landing Light - Retainer Assembly Removal/Installation,  
TASK 33-42-02-960-804.
    - 2) Turn the lamp until one lug is in the top position and the lamp filament is in a horizontal position to the ground when the light is extended.

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461; AIRPLANES WITH THE RETAINER ASSEMBLY WITH THREE CUTOUTS FOR LAMP LUGS**

- 3) Align the top lamp lug with the cutout in the top of the retainer assembly [1].  
**NOTE:** If the lug at the top of the lamp is aligned correctly, all three lugs on the back of the lamp will fit into the cutouts in the housing. The rubber cushion [4] material on the rim of the housing is flexible, which will permit the lugs to fit into the corresponding housing cutouts.

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461; AIRPLANES WITH THE RETAINER ASSEMBLY WITH A LAMP RETENTION BRACKET**

- 4) Align the top lamp lug with the cutout in the lamp retention bracket [7].

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-461

**33-42-02**



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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461; AIRPLANES WITH THE RETAINER ASSEMBLY WITH A LAMP RETENTION BRACKET (Continued)**

- a) Attach the end of the lamp retention bracket around the post near the center of the lamp.

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461**

- (g) Install the lamp [2] and retainer assembly [1] in the housing.
- (h) Install the fasteners [5] with the corrosion-preventive compound, C00528.

SUBTASK 33-42-02-860-004

- (3) Remove the safety tag and close the applicable circuit breaker:

**CAPT Electrical System Panel, P18-3**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	14	C00274	EXTERIOR LIGHTING LANDING RIGHT RETR
C	15	C00273	EXTERIOR LIGHTING LANDING LEFT RETR

SUBTASK 33-42-02-860-012

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

SUBTASK 33-42-02-710-001

- (5) Do a test of the new lamp.

- (a) At the overhead panel, P5, set the switch for the retractable landing light to the extend mode.
  - 1) Set the switch to the on mode.
  - 2) Make sure the new lamp comes on.
- (b) Set the switch to the retract mode.
  - 1) Make sure the light goes off.
  - 2) Make sure the light retracts and is flush with the housing.
    - a) If it is necessary to adjust the light, do this task: Retractable Landing Light - Light Adjustment, TASK 33-42-02-960-803.

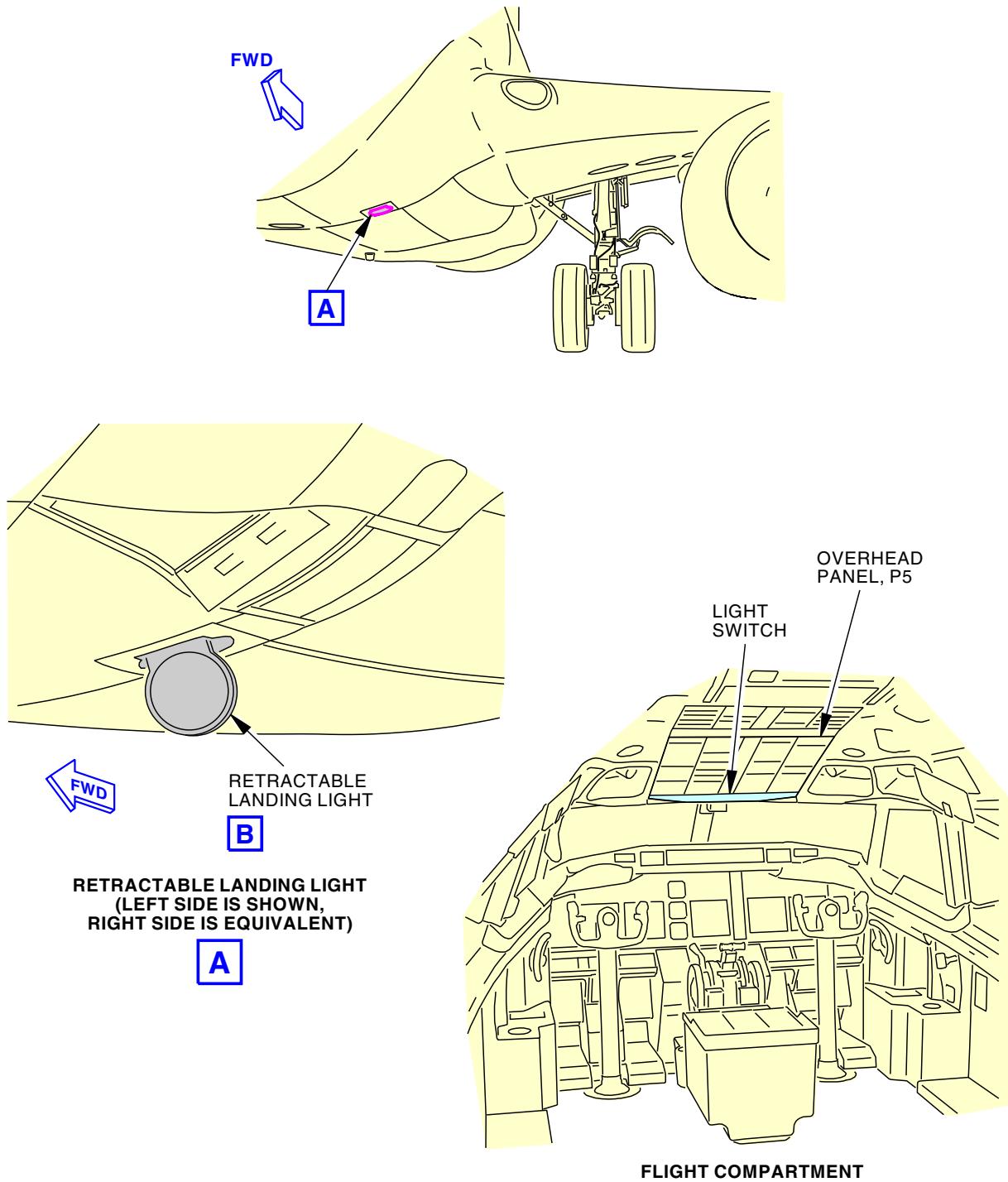
———— END OF TASK ————

EFFECTIVITY  
**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-461**

**33-42-02**



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**Retractable Landing Light - Lamp Replacement**  
Figure 202/33-42-02-990-801 (Sheet 1 of 2)

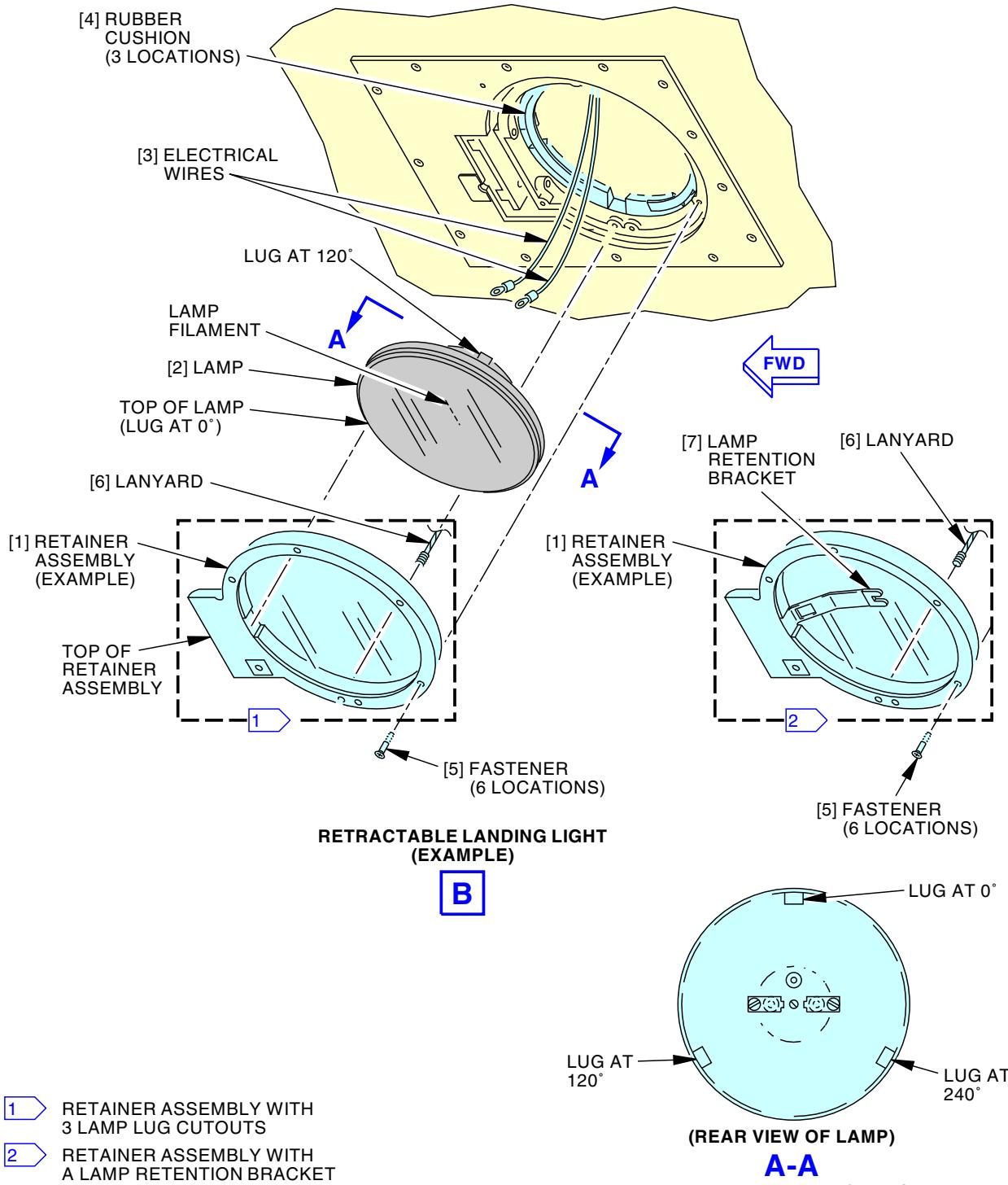
EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-461

**33-42-02**

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**Retractable Landing Light - Lamp Replacement**  
**Figure 202/33-42-02-990-801 (Sheet 2 of 2)**

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-461

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**TASK 33-42-02-960-804**

**5. Retractable Landing Light - Retainer Assembly Removal/Installation**  
(Figure 202)

**A. General**

- (1) The retainer assembly includes the retainer, lens, retainer gasket, lamp gasket, and rubber cushions.

**B. References**

Reference	Title
51-21-99-300-801	Decorative Exterior Paint System Application (P/B 701)

**C. Consumable Materials**

Reference	Description	Specification
C00528	Compound - Corrosion Preventive, Petroleum Hot Application (Soft Film)	MIL-C-11796 Class III

**D. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Retainer assembly	33-42-02-01-048	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461

**E. Location Zones**

Zone	Area
123	Forward Cargo Compartment - Left
124	Forward Cargo Compartment - Right

**F. Retractable Landing Light Retainer Assembly Replacement**

**SUBTASK 33-42-02-020-001**

- (1) Do these steps to remove the retainer assembly:

**NOTE:** Keep the retainer assembly. Refer to the vendor manual for possible repairs of the retainer, lens, gaskets, or rubber cushions. Do the repairs in a shop.

- (a) Loosen the fasteners [5].
  - 1) Do not turn the adjustment screws.
- (b) Pull away the retainer assembly [1].
- (c) Disconnect the lanyard [6] from the retainer assembly [1] by using a small flat-tip screwdriver to turn the threaded end of the lanyard clockwise until the lanyard emerges from the back side of the retainer assembly.

**NOTE:** The lanyard remains attached to the landing light housing and will be connected to the new retainer assembly when it is installed.

**SUBTASK 33-42-02-400-001**

- (2) Do these steps to install the retainer assembly:

- (a) Examine the new retainer assembly [1] for presence of lanyard [6].
  - 1) If installed, remove lanyard from the new retainer assembly and discard.
- (b) Connect the lanyard [6] that is attached to the light assembly housing to the new retainer assembly [1] by threading the lanyard into the backside of the retainer.

EFFECTIVITY  
**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-461**

**33-42-02**



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YOU MUST ALIGN THE RETAINER ASSEMBLY CORRECTLY AGAINST THE LAMP. IF YOU DO NOT OBEY, DAMAGE TO THE LENS CAN OCCUR

- (c) To avoid possible damage to the lamp or lens, remove the lamp, align it with the retainer assembly before you install the lamp and retainer assembly together in the housing (TASK 33-42-02-960-801).
- (d) Install the retainer assembly [1].
- (e) Install the fasteners [5] with corrosion-preventive compound, C00528.

SUBTASK 33-42-02-370-001

- (3) If it is necessary to paint the new retainer assembly [1], do this task: Decorative Exterior Paint System Application, TASK 51-21-99-300-801.

————— END OF TASK ————

**TASK 33-42-02-960-802**

**6. Retractable Landing Light - Light Assembly Replacement**

(Figure 203)

**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)
51-21-99-300-801	Decorative Exterior Paint System Application (P/B 701)
SWPM 20-20-00	ELECTRICAL BONDING PROCESSES
WDM 33-42-11	Wiring Diagram Manual

**B. Tools/Equipment**

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

Reference	Description
COM-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
STD-14062	Protractor - Digital (0 to 100 degree, Maximum Accuracy of +/- 0.1 degree)

**C. Consumable Materials**

Reference	Description	Specification
A50110	Sealant - Fuel Tank	BMS5-45 Class B-2
A50155	Sealant - Fuel Tank	BMS5-45 Class C

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-461

**33-42-02**



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(Continued)

<b>Reference</b>	<b>Description</b>	<b>Specification</b>
A50231	Sealant - Pressure And Environmental - Chromate Type	BMS5-95 Class B
A50296	Sealant - Pressure And Environmental - Chromate Type	BMS5-95 Class C
B00184	Solvent - Presealing, Cleaning Solvent	BMS11-7
C00528	Compound - Corrosion Preventive, Petroleum Hot Application (Soft Film)	MIL-C-11796 Class III
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**

<b>AMM Item</b>	<b>Description</b>	<b>AIPC Reference</b>	<b>AIPC Effectivity</b>
28	Light assembly	33-42-02-01-030	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461
		33-42-02-01-032	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461
		33-42-02-01-248	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461
		33-42-02-01-250	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461

**E. Location Zones**

<b>Zone</b>	<b>Area</b>
123	Forward Cargo Compartment - Left
124	Forward Cargo Compartment - Right

**F. Access Panels**

<b>Number</b>	<b>Name/Location</b>
192CL	ECS Access Door
192CR	ECS Access Door
192DR	ECS High Pressure Access Door

**G. Light Assembly Replacement**

SUBTASK 33-42-02-860-006

- (1) Open the applicable circuit breaker and install the safety tag:  
(WDM 33-42-11)

EFFECTIVITY  
**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
 422-434, 437-447, 450-461**

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**CAPT Electrical System Panel, P18-3**

**Row**    **Col**    **Number**    **Name**

B	14	C00274	EXTERIOR LIGHTING LANDING RIGHT RETR
C	15	C00273	EXTERIOR LIGHTING LANDING LEFT RETR

SUBTASK 33-42-02-010-001

- (2) For access to the aft side of the retractable landing light, do these steps (TASK 06-41-00-800-801):

- (a) Open this access door:

<b>Number</b>	<b>Name/Location</b>
192CL	ECS Access Door

SUBTASK 33-42-02-010-004



**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.**

- (3) For access to the aft side of the retractable landing light, do these steps (TASK 06-41-00-800-801):

- (a) Open this access door:

<b>Number</b>	<b>Name/Location</b>
192DR	ECS High Pressure Access Door

- (b) Open this access door:

<b>Number</b>	<b>Name/Location</b>
192CR	ECS Access Door

SUBTASK 33-42-02-960-002

- (4) Do these steps to replace the light assembly:

- (a) Disconnect the electrical connector [25].

- (b) Remove the nut [22] and washer [23] to disconnect the jumper [21].

- (c) Loosen the bolts [26].

- (d) Remove the light assembly [28].

NOTE: Keep the used light assembly. Possible repairs can be done in a shop.

- (e) Put the new light assembly [28] in the opening.

- 1) Make sure that the lamp is installed (TASK 33-42-02-960-801).

- (f) Install the bolts [26] with the corrosion-preventative compound, C00528.

- (g) Install the nut [22] and washer [23] to connect the jumper [21] to the new light assembly.

- 1) Use cotton wiper, G00034, moist in solvent, B00184, to clean the mating surfaces of the jumper [21], nut [22], washer [23], and light assembly [28].

- 2) Apply sealant, A50110, or sealant, A50155, or sealant, A50231, or sealant, A50296, to the mating surfaces of the ground stud, nut [22], washer [23], and jumper [21].

- 3) Install the jumper [21], washer [23], and nut [22].

- 4) Tighten the nut [22] to 65 in-lb (7.3 N·m) - 70 in-lb (7.9 N·m).

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-461

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- a) Make sure that there is squeeze out around all the interfaces of each component.
- 5) Measure the electrical bonding resistance between the jumper [21] and light assembly [28] structure (SWPM 20-20-00).
  - a) Use a non-intrinsically safe bonding meter, COM-614.
  - b) Make sure that the electrical bonding resistance is 0.0007 ohm (0.7 milliohm) or less.
- (h) Connect the electrical connector [25] to the new light assembly.
  - 1) Use a strap wrench or plug pliers to tighten the coupling nut on the electrical connector in the clockwise direction until it no longer rotates.

SUBTASK 33-42-02-860-007

- (5) Remove the safety tags and close the applicable circuit breakers:

**CAPT Electrical System Panel, P18-3**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	14	C00274	EXTERIOR LIGHTING LANDING RIGHT RETR
C	15	C00273	EXTERIOR LIGHTING LANDING LEFT RETR

SUBTASK 33-42-02-710-002

- (6) Do a test of the new light assembly:
  - (a) At the P5 overhead panel, set the switch for the retractable landing light to the extend mode.
  - (b) Put the digital protractor, STD-14062, against the retractable landing light.
    - 1) Make sure that the light extends fully,  $81.2 \pm 0.5$  degrees.
      - a) If it is necessary to adjust the light, do this task: Retractable Landing Light - Light Adjustment, TASK 33-42-02-960-803.
  - (c) Set the switch to the on mode.
    - 1) Make sure that the light comes on.
  - (d) Set the switch to the retract mode.
    - 1) Make sure that the light goes off.
    - 2) Make sure that the light retracts and is flush with the housing.
      - a) If it is necessary to adjust the light, do this task: Retractable Landing Light - Light Adjustment, TASK 33-42-02-960-803.

SUBTASK 33-42-02-010-002

- (7) Close the applicable access doors (TASK 06-41-00-800-801):

- (a) Close this access door:

<u>Number</u>	<u>Name/Location</u>
192CL	ECS Access Door

- (b) Close this access door:

<u>Number</u>	<u>Name/Location</u>
192CR	ECS Access Door

EFFECTIVITY  
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422-434, 437-447, 450-461

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- (c) Close this access door:

**Number      Name/Location**

192DR      ECS High Pressure Access Door

**NOTE:** The ECS high pressure access door, 192DR, will not latch in its position if the ECS access door, 192CR, is not closed.

SUBTASK 33-42-02-370-002

- (8) If it is necessary to paint the new light assembly, do this task: Decorative Exterior Paint System Application, TASK 51-21-99-300-801.

———— END OF TASK ————

— EFFECTIVITY —  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-461

**33-42-02**

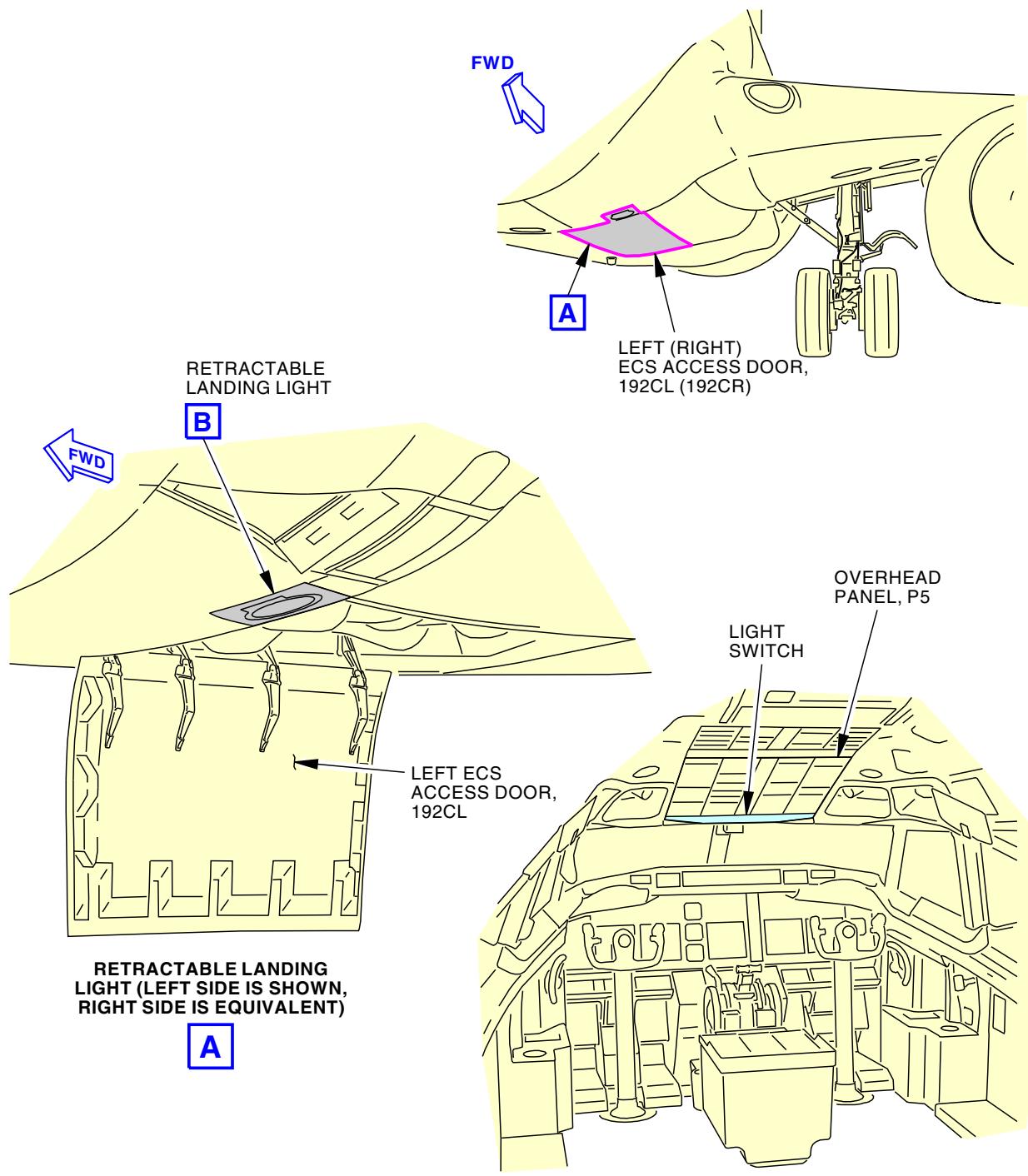
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FLIGHT COMPARTMENT

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**Retractable Landing Light - Light Assembly Replacement**  
Figure 203/33-42-02-990-802 (Sheet 1 of 2)

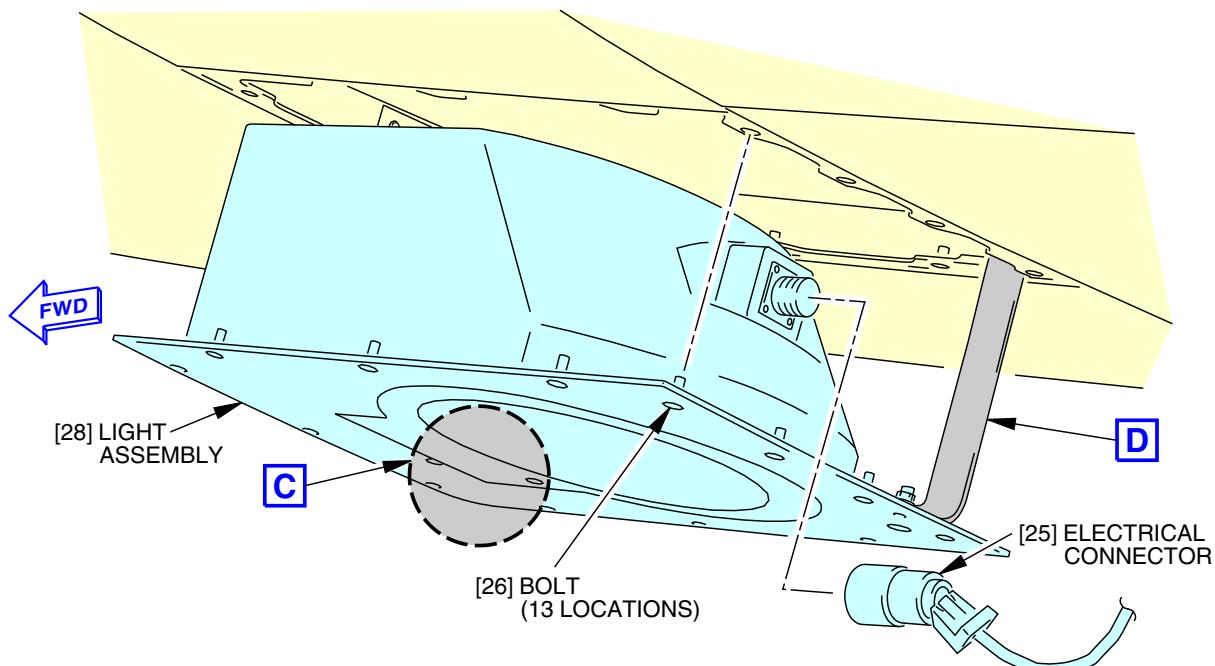
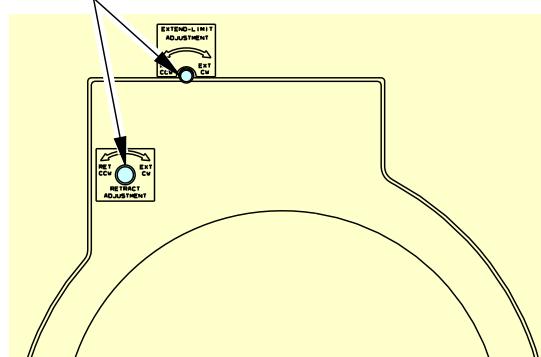
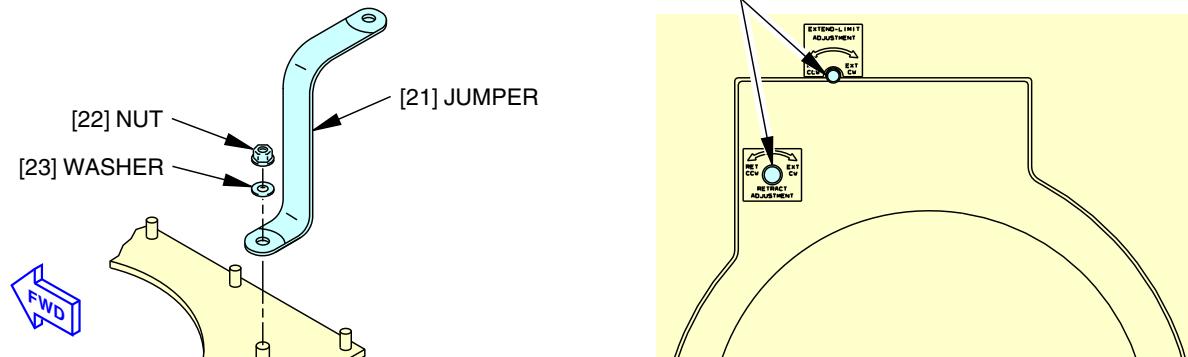
EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-461

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**RETRACTABLE LANDING LIGHT**
**B**
**[27] ADJUSTMENT SCREWS**

**C**
**F  
W  
D**
**D**

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**Retractable Landing Light - Light Assembly Replacement**  
**Figure 203/33-42-02-990-802 (Sheet 2 of 2)**


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EFFECTIVITY  
**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-461**
**33-42-02**

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**TASK 33-42-02-960-803**

**7. Retractable Landing Light - Light Adjustment**

(Figure 203)

**A. References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)

**B. Tools/Equipment**

Reference	Description
STD-14062	Protractor - Digital (0 to 100 degree, Maximum Accuracy of +/- 0.1 degree)

**C. Location Zones**

Zone	Area
123	Forward Cargo Compartment - Left
124	Forward Cargo Compartment - Right

**D. Procedure**

SUBTASK 33-42-02-860-010

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

SUBTASK 33-42-02-710-003

- (2) Do these steps to adjust the retractable landing light:
  - (a) At the overhead panel, P5, set the switch for the retractable landing light to the extend mode.
  - (b) Put the digital protractor, STD-14062 against the retractable landing light.
  - (c) Make sure the light extends fully,  $81.2 \pm 0.5$  degrees.
  - (d) If the light does not extend fully, do these steps to adjust the light:



**CAUTION**

DO NOT TURN THE ADJUSTMENT SCREW TOO MUCH. DURING A LIMIT SWITCH FAILURE, THE MOTOR IN THE RETRACTABLE LANDING LIGHT CAN CONTINUE TO OPERATE AFTER THE LIGHT MOVEMENT STOPS. DAMAGE TO THE MOTOR CAN OCCUR.

- 1) Turn the applicable adjustment screw [27] approximately 90 degrees.
- 2) Set the switch to the retract mode, and then to the extend mode.  
**NOTE:** It is always necessary to do this step to activate the limit switch in the light assembly.
- 3) If the light does not extend fully, adjust the light again.
- (e) Set the switch to the retract mode.
- (f) Make sure the light retracts fully.
- (g) If the light does not retract fully, do these steps to adjust the light:

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-461

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**CAUTION**

DO NOT TURN THE ADJUSTMENT SCREW TOO MUCH. DURING A LIMIT SWITCH FAILURE, THE MOTOR IN THE RETRACTABLE LANDING LIGHT CAN CONTINUE TO OPERATE AFTER THE LIGHT MOVEMENT STOPS. DAMAGE TO THE MOTOR CAN OCCUR.

- 1) Turn the applicable adjustment screw [27] approximately 90 degrees.

- 2) Set the switch to the extend mode, and then to the retract mode.

NOTE: It is always necessary to do this step to activate the limit switch in the light assembly.

- 3) If the light does not retract fully, adjust the light again.

SUBTASK 33-42-02-860-011

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

————— END OF TASK ————

**TASK 33-42-02-960-805**

**8. Retractable Landing Light - Lens Assembly Replacement**

(Figure 204)

**A. General**

- (1) This procedure replaces the lens assembly.

**B. References**

Reference	Title
WDM 33-42-11	Wiring Diagram Manual

**C. Consumable Materials**

Reference	Description	Specification
A00562	Adhesive - High Strength Silicone Rubber, One-Part - RTV157	
A50015	Sealant - Hi-Temp Silicone Rubber Gasket Material, One-Part RTV - CSL-503	
B00130	Alcohol - Isopropyl	TT-I-735
G00834	Cloth - Lint-free Cotton	
G01043	Cloth - Lint-free	

**D. Location Zones**

Zone	Area
123	Forward Cargo Compartment - Left
124	Forward Cargo Compartment - Right

**E. Prepare for the Procedure**

SUBTASK 33-42-02-860-014

- (1) Open the applicable circuit breaker and install the safety tag:  
(WDM 33-42-11)

**CAPT Electrical System Panel, P18-3**

Row	Col	Number	Name
B	14	C00274	EXTERIOR LIGHTING LANDING RIGHT RETR
C	15	C00273	EXTERIOR LIGHTING LANDING LEFT RETR

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LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
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**F. Retractable Landing Light Lens Assembly Replacement**

SUBTASK 33-42-02-020-005

- (1) Remove the retainer assembly [61] from the light assembly, do this task: Retractable Landing Light - Retainer Assembly Removal/Installation, TASK 33-42-02-960-804.

NOTE: Do only the applicable removal steps.

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461; AIRPLANES WITHOUT REMOVABLE LAMP GASKET**

SUBTASK 33-42-02-020-006

- (2) Do these steps to remove the lens assembly [66]:  
(a) Remove the fasteners [63] and screw retainers [64] from the retainer [67].  
(b) Remove the lens gasket [65] and lens assembly [66].

SUBTASK 33-42-02-420-008

- (3) Do these steps to install the lens assembly [66]:  
(a) Clean the retainer [67] with alcohol, B00130, and a lint-free cloth, G01043.  
(b) Put the lens assembly [66] in its position on the retainer [67].  
(c) Apply a bead of RTV157 adhesive, A00562, on the mating side of the lens gasket [65].  
(d) Put the lens gasket [65] in its position against the retainer [67].  
(e) Insert the fasteners [63] through holes in the retainer [67] and attach them with the screw retainers [64].

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461; AIRPLANES WITH REMOVABLE LAMP GASKET**

SUBTASK 33-42-02-020-007

- (4) Do these steps to disassemble the retainer assembly [61]:  
(a) Remove the screw retainers [64].  
(b) Remove the lens gasket [65], lamp gasket [68] and lens [69].  
(c) Clean the retainer [67] with alcohol, B00130, and a lint-free cloth, G00834.

SUBTASK 33-42-02-400-002

- (5) Do these steps to install the lens [69]:



**WARNING** ADHESIVE IS VERY FLAMMABLE. PREVENT INHALATION OF FUMES AND CONTACT WITH SKIN. ADHESIVE WILL CAUSE SKIN TO BOND.

- (a) Apply bead of CSL-503 sealant, A50015, in the recess of the lens [69].  
(b) Put the lens [69] in its position on the retainer [67].  
(c) Use a lint-free cloth, G00834, to remove the excess sealant.  
(d) Let the lens [69] air-dry for two hours.

SUBTASK 33-42-02-400-003

- (6) Do these steps to install the lamp gasket [68]:

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-461

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LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461; AIRPLANES WITH REMOVABLE LAMP GASKET (Continued)



**WARNING**

ADHESIVE IS VERY FLAMMABLE. PREVENT INHALATION OF FUMES AND CONTACT WITH SKIN. ADHESIVE WILL CAUSE SKIN TO BOND.

- (a) Apply a bead of RTV157 adhesive, A00562, around the outer diameter of the lamp gasket [68].
- (b) Put the lamp gasket [68] on the inside of the retainer [67].
- (c) Use a lint-free cloth, G00834, to remove the excess adhesive.
- (d) Let the lamp gasket [68] air-dry for two hours.

SUBTASK 33-42-02-400-004

- (7) Do these steps to install the lens gasket [65]:



**WARNING**

ADHESIVE IS VERY FLAMMABLE. PREVENT INHALATION OF FUMES AND CONTACT WITH SKIN. ADHESIVE WILL CAUSE SKIN TO BOND.

- (a) Apply a bead of CSL-503 sealant, A50015, on the mating side of the lens gasket [65].
- (b) Put the lens gasket [65] against the retainer [67].
- (c) Use a lint-free cloth, G00834, to remove the excess adhesive.
- (d) Let the lens gasket [65] air-dry for two hours.
- (e) Install the fasteners [63] and screw retainers [64].

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461**

SUBTASK 33-42-02-420-009

- (8) Install the retainer assembly [61] to the light assembly, do this task: Retractable Landing Light - Retainer Assembly Removal/Installation, TASK 33-42-02-960-804.

NOTE: Do only the applicable installation steps.

#### G. Put the Airplane Back to Its Usual Condition

SUBTASK 33-42-02-860-015

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

##### CAPT Electrical System Panel, P18-3

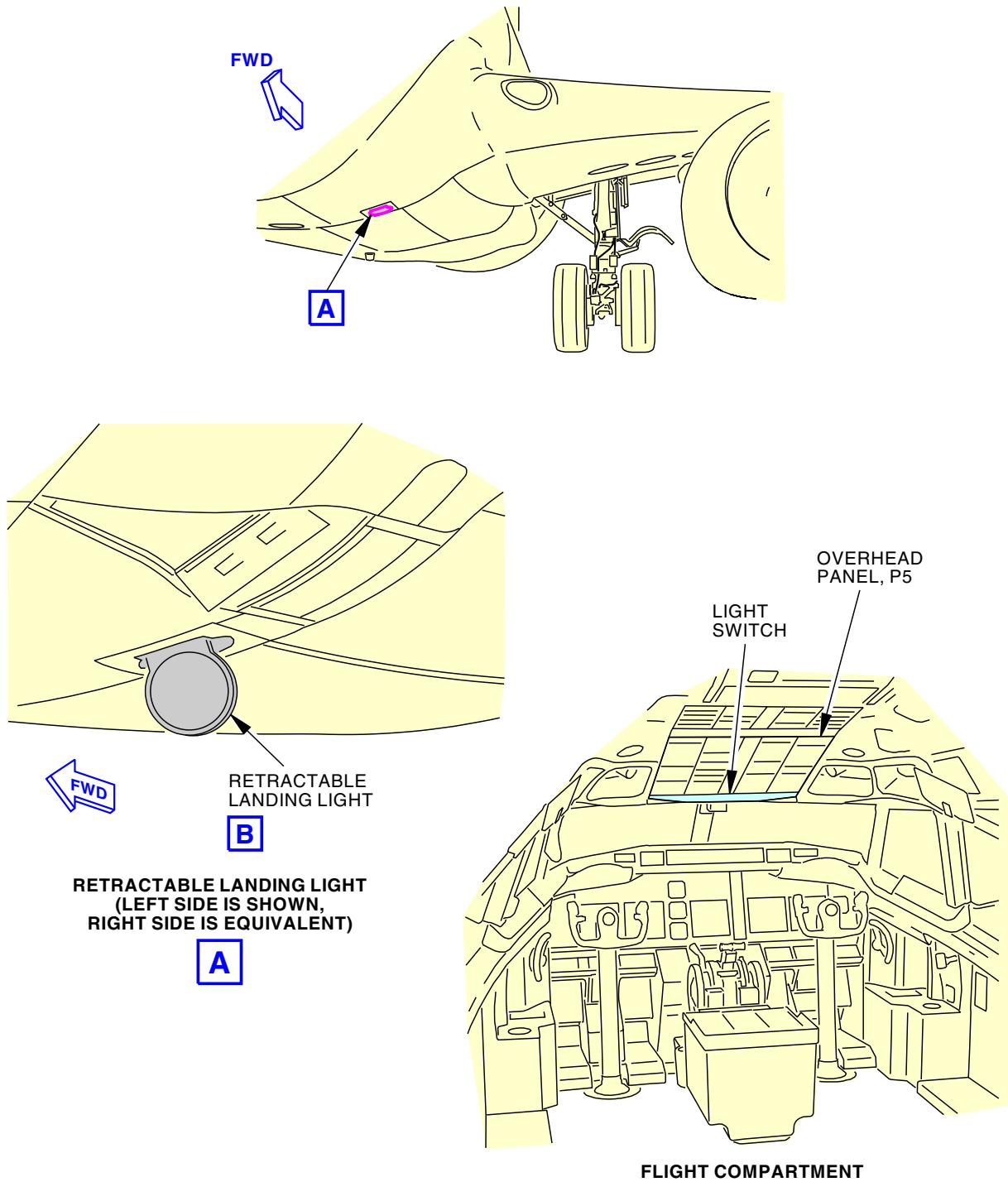
Row	Col	Number	Name
B	14	C00274	EXTERIOR LIGHTING LANDING RIGHT RETR
C	15	C00273	EXTERIOR LIGHTING LANDING LEFT RETR

— END OF TASK —

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-461

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**Retractable Landing Light - Lens Assembly Replacement**  
**Figure 204/33-42-02-990-805 (Sheet 1 of 3)**

EFFECTIVITY  
 LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
 422-434, 437-447, 450-461

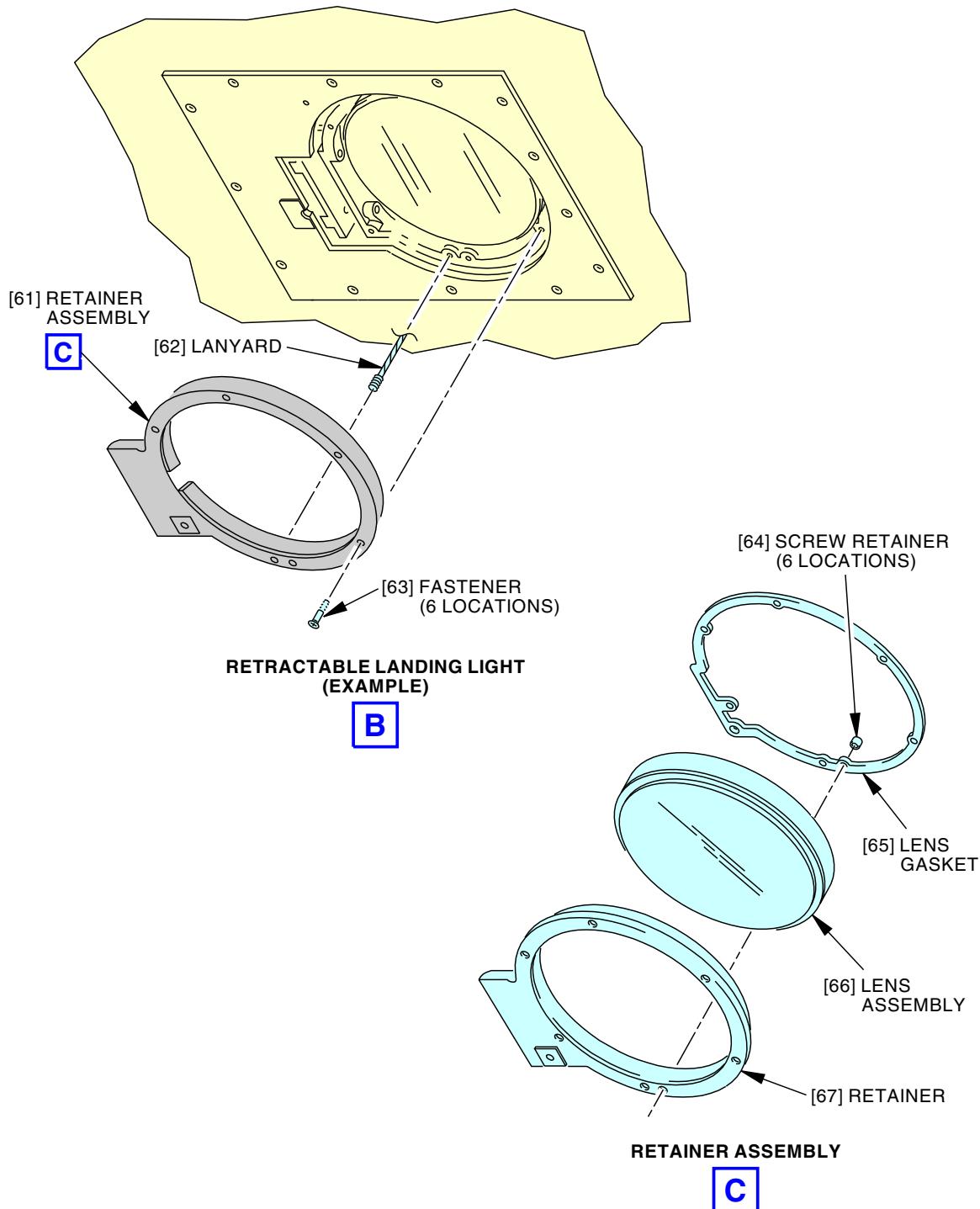
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Retractable Landing Light - Lens Assembly Replacement  
Figure 204/33-42-02-990-805 (Sheet 2 of 3)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-461; AIRPLANES WITHOUT  
REMOVABLE LAMP GASKET

**33-42-02**

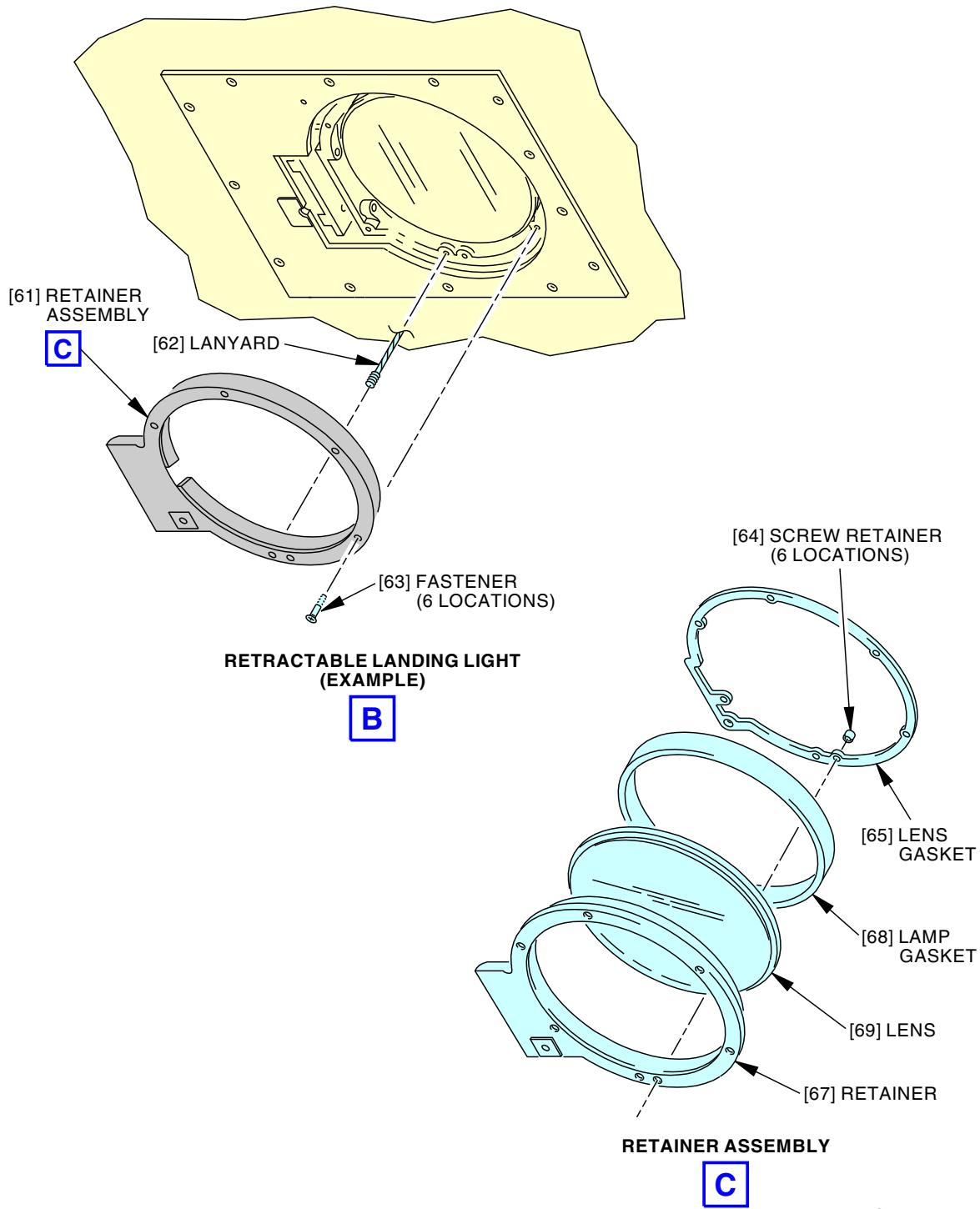
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AIRCRAFT MAINTENANCE MANUAL



2939970 S0000715585\_V1

Retractable Landing Light - Lens Assembly Replacement  
Figure 204/33-42-02-990-805 (Sheet 3 of 3)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-461; AIRPLANES WITH  
REMOVABLE LAMP GASKET

**33-42-02**

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WINGLET POSITION LIGHTS - MAINTENANCE PRACTICES

**1. General**

- A. This procedure has these tasks:
- (1) A deactivation of the position light
  - (2) An activation of the position light
  - (3) A replacement of the position light transformer

**LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS**

- (4) A replacement of the LED light control PBA

**LOM ALL; AIRPLANES WITH WINGLETS**

- (5) An operational test of the position lights
- (6) A disconnection of the electrical connector
- (7) A connection of the electrical connector.

**TASK 33-43-10-040-801**

**2. Position Light - Deactivation**

(Figure 201)

**A. General**

- (1) This procedure removes electrical power to the position lights.

**B. Location Zones**

<b>Zone</b>	<b>Area</b>
211	Flight Compartment - Left
212	Flight Compartment - Right
527	Left Winglet
627	Right Winglet

**C. Procedure**

SUBTASK 33-43-10-860-015

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

**CAPT Electrical System Panel, P18-3**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
A	12	C00113	EXTERIOR LIGHTING POSITION RIGHT
A	13	C00114	EXTERIOR LIGHTING POSITION LEFT

**D. Position Light - Tryout**

NOTE: This tryout is to make sure the Position light is in a zero energy state.

SUBTASK 33-43-10-200-001

- (1) Do the following steps to ensure the power is off:
  - (a) At the overhead panel, P5, set the switch for the position lights on both wings to the ON mode.
  - (b) Make sure the forward and aft position lights are off.

———— END OF TASK ————

EFFECTIVITY  
**LOM ALL; AIRPLANES WITH WINGLETS**

**33-43-10**



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**TASK 33-43-10-440-801**

**3. Position Light Activation**

(Figure 201)

**A. General**

- (1) This procedure adds electrical power to the position lights.

**B. Location Zones**

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right
527	Left Winglet
627	Right Winglet

**C. Procedure**

SUBTASK 33-43-10-860-016

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

**CAPT Electrical System Panel, P18-3**

Row	Col	Number	Name
A	12	C00113	EXTERIOR LIGHTING POSITION RIGHT
A	13	C00114	EXTERIOR LIGHTING POSITION LEFT

————— END OF TASK ————

**TASK 33-43-10-960-801**

**4. Position Light - Transformer Replacement**

(Figure 201)

**A. References**

Reference	Title
27-81-00-040-801	Leading Edge Flaps and Slats Deactivation (P/B 201)
27-81-00-440-801	Leading Edge Flaps and Slats - Activation (P/B 201)
SWPM 20-20-00	ELECTRICAL BONDING PROCESSES
WDM 33-43-11	Wiring Diagram Manual

**B. Tools/Equipment**

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

Reference	Description
COM-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

EFFECTIVITY  
LOM ALL; AIRPLANES WITH WINGLETS

**33-43-10**



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

**C. Consumable Materials**

<b>Reference</b>	<b>Description</b>	<b>Specification</b>
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
B00068	Alcohol - Denatured, Ethyl (Ethanol)	AMS 3002, MIL-E-51454 Type II
B00083	Solvent - VM&P Naphthas	TT-N-95 Type II, ASTM D-3735 Type III
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)
G50262	Wiper - Cleaning	BMS15-5
G51464	Abrasive - Aluminum Oxide paper, 60 grit or finer	

**D. Expendables/Parts**

<b>AMM Item</b>	<b>Description</b>	<b>AIPC Reference</b>	<b>AIPC Effectivity</b>
3	Transformer	33-43-03-01-010	LOM ALL
		33-43-10-02-030	LOM 406

**E. Location Zones**

<b>Zone</b>	<b>Area</b>
527	Left Winglet
627	Right Winglet

**F. Access Panels**

<b>Number</b>	<b>Name/Location</b>
521AAB	Lower Leading Edge Access Panel - Slat Station 508.31
621ZB	Lower Leading Edge Access Panel - Slat Station 508.31

**G. Position Light Transformer Replacement**

SUBTASK 33-43-10-860-017

- (1) Do this task: Leading Edge Flaps and Slats Deactivation, TASK 27-81-00-040-801.

SUBTASK 33-43-10-860-001

- (2) Open the applicable circuit breaker and install the safety tag:  
 (WDM 33-43-11)

**CAPT Electrical System Panel, P18-3**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
A	12	C00113	EXTERIOR LIGHTING POSITION RIGHT
A	13	C00114	EXTERIOR LIGHTING POSITION LEFT

SUBTASK 33-43-10-960-001

- (3) Do these steps to replace the transformer [3]:

EFFECTIVITY  
**LOM ALL; AIRPLANES WITH WINGLETS**

**33-43-10**



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**AIRCRAFT MAINTENANCE MANUAL**

- (a) Open the applicable access panel:

**Number**    **Name/Location**

521AAB    Lower Leading Edge Access Panel - Slat Station 508.31  
621ZB    Lower Leading Edge Access Panel - Slat Station 508.31

- (b) Disconnect the electrical connector [4].

- (c) Remove the bolts [2] and washers [1].

- (d) Remove the transformer [3].

1) Clean the fay surface bonding area with solvent, B00083, and clean cotton wiper, G00034.

- (e) Install the new transformer [3].

1) Clean the mating surfaces of the transformer [3] and mounting bracket with 60 grit wet/dry aluminum oxide sandpaper, G51464.

2) Clean the mating surface of the transformer [3] and mounting bracket with wiper, G50262, moist in alcohol, B00130, or alcohol, B00068.

a) If it is necessary, use clean wiper, G50262, to remove remaining solvent.

3) Install the bolts [2] and washers [1] that attach the transformer [3] to the mounting bracket.

4) Measure the electrical bonding resistance between the transformer [3] and airplane structure (SWPM 20-20-00).

a) Use an intrinsically safe approved bonding meter, COM-1550.

b) Make sure that the resistance is 0.0005 ohm (0.50 milliohm) or less.

5) Apply fillet seal with sealant sealant, A50337, or sealant, A50231, or sealant, A50359, to the transformer [3].

a) Make sure that the fillet seal is applied to all four sides of transformer [3].

- (f) Connect the electrical connector [4].

- (g) Close these access panels:

**Number**    **Name/Location**

521AAB    Lower Leading Edge Access Panel - Slat Station 508.31  
621ZB    Lower Leading Edge Access Panel - Slat Station 508.31

**SUBTASK 33-43-10-860-002**

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

**CAPT Electrical System Panel, P18-3**

<b><u>Row</u></b>	<b><u>Col</u></b>	<b><u>Number</u></b>	<b><u>Name</u></b>
A	12	C00113	EXTERIOR LIGHTING POSITION RIGHT
A	13	C00114	EXTERIOR LIGHTING POSITION LEFT

**SUBTASK 33-43-10-710-001**

- (5) Do a test of the new transformer [3].

- (a) Set the switch for the position lights, on the P5 overhead panel, to the ON mode.

1) Make sure that the lights come on.

- (b) Set the switch to the OFF mode.

1) Make sure that the lights go off.

EFFECTIVITY  
LOM ALL; AIRPLANES WITH WINGLETS

**33-43-10**

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**AIRCRAFT MAINTENANCE MANUAL**

SUBTASK 33-43-10-860-018

- (6) Do this task: Leading Edge Flaps and Slats - Activation, TASK 27-81-00-440-801.

———— END OF TASK ——

— EFFECTIVITY —  
**LOM ALL; AIRPLANES WITH WINGLETS**

**33-43-10**

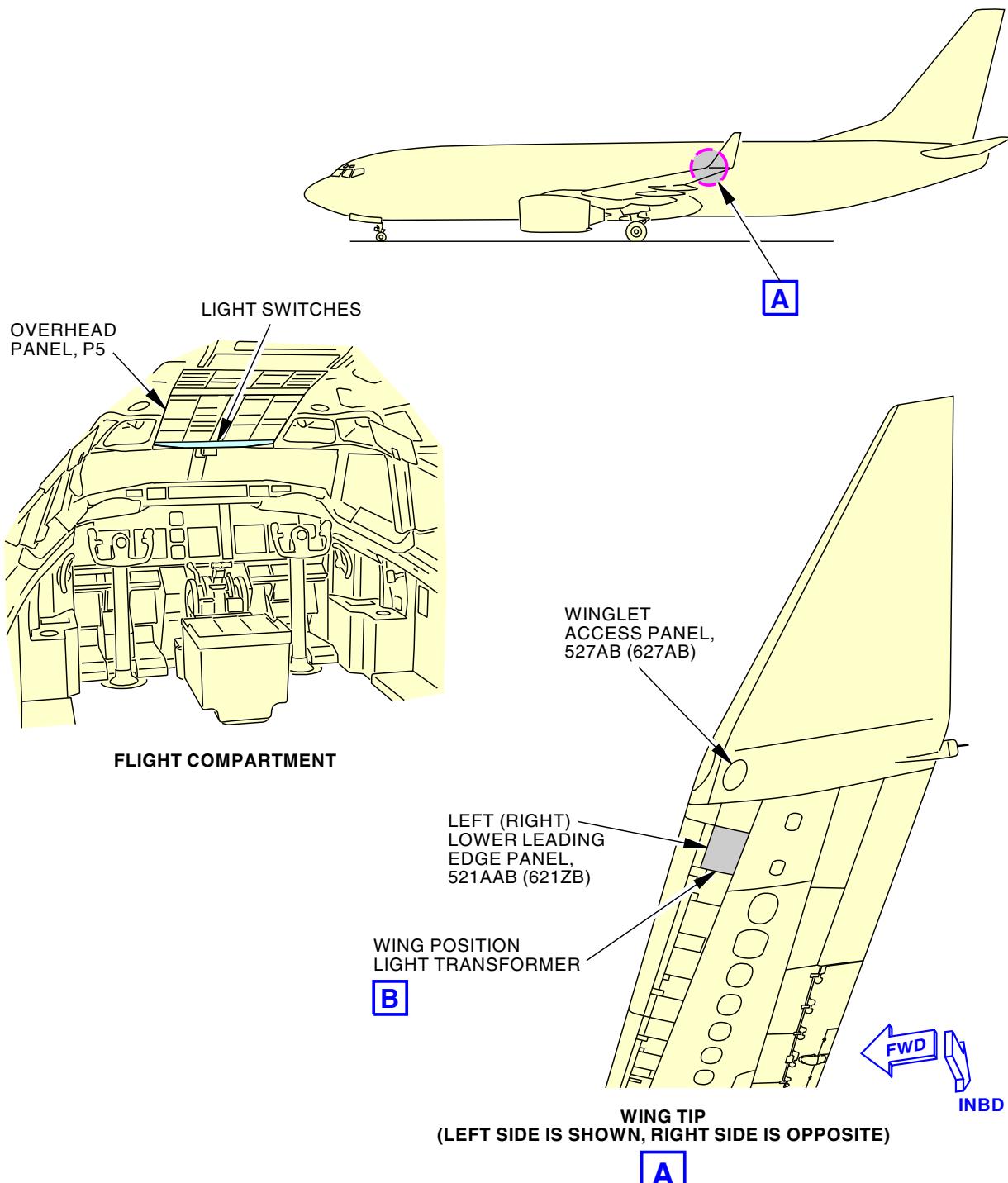
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AIRCRAFT MAINTENANCE MANUAL



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**Position Light - Transformer Replacement**  
Figure 201/33-43-10-990-801 (Sheet 1 of 2)

EFFECTIVITY  
LOM ALL; AIRPLANES WITH WINGLETS

**33-43-10**

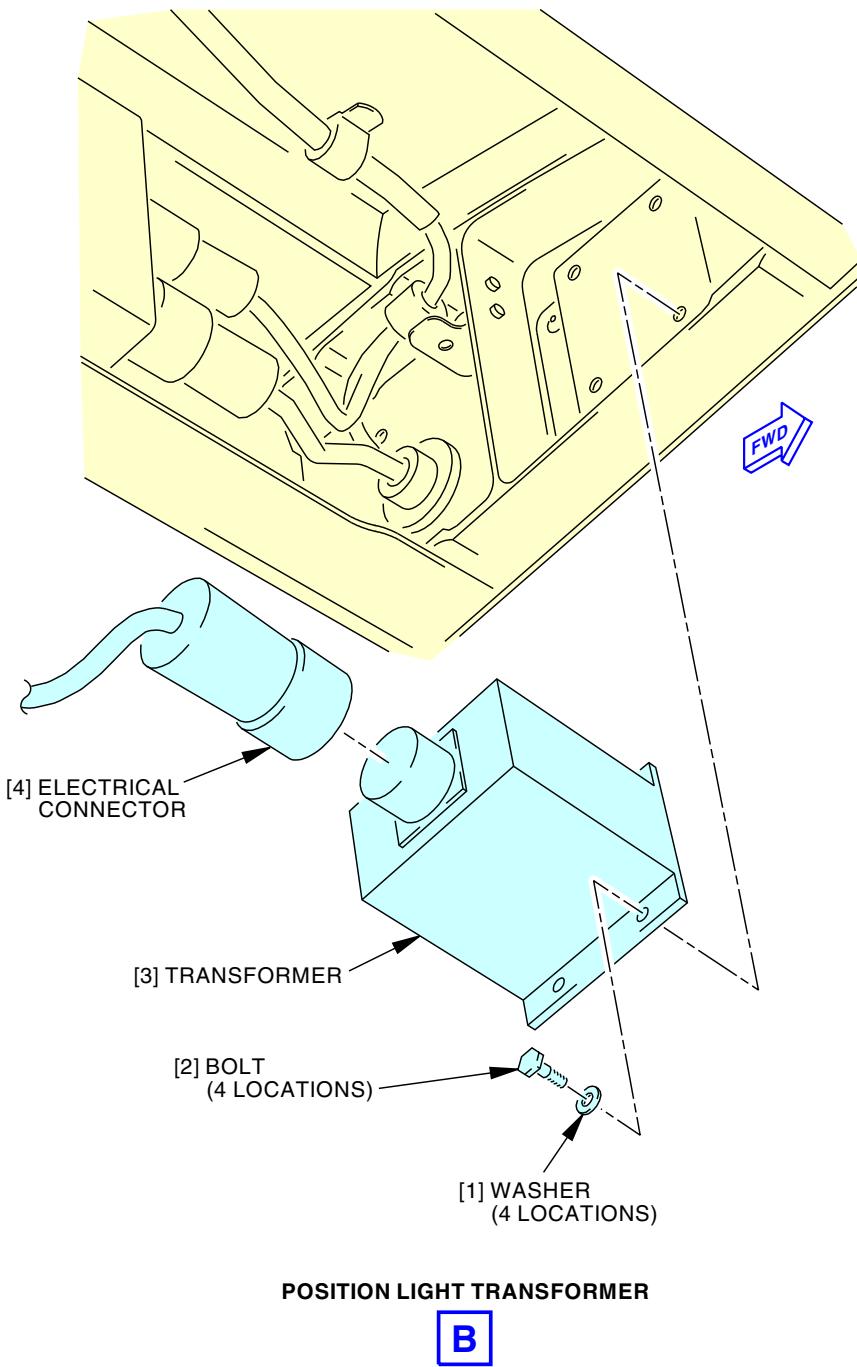
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L99796 S0006576217\_V2

**Position Light - Transformer Replacement**  
Figure 201/33-43-10-990-801 (Sheet 2 of 2)

EFFECTIVITY  
LOM ALL; AIRPLANES WITH WINGLETS

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**LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS**

**TASK 33-43-10-960-802**

**5. Position Light - LED Light Control PBA Replacement**

(Figure 202)

**A. General**

- (1) This task describes replacement of the light control Printed Board Assemblies (PBA) for the forward position light.

**B. References**

<b>Reference</b>	<b>Title</b>
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)
24-22-00-860-811	Supply Electrical Power (P/B 201)
33-43-11-960-802	Forward Position Light with Dual Lens - Lamp Replacement (P/B 201)
57-21-22-000-803	Forward Position Light and Anti-Collision Light Lens (Dual Forward Lens) Removal (P/B 201)
57-21-22-400-804	Forward Position Light and Anti-Collision Light Lens (Dual Forward Lens) Installation (P/B 201)
WDM 33-43-11	Wiring Diagram Manual

**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.

<b>Reference</b>	<b>Description</b>
COM-1565	Wrist Strap - Adjustable, Conductive, Static Control Part #: 09070 Supplier: 62576 Part #: 2214 Supplier: 62576 Opt Part #: 14810 Supplier: 62576 Opt Part #: 2211 Supplier: 55203 Opt Part #: 2212 Supplier: 55203 Opt Part #: 2213 Supplier: 55203

**D. Consumable Materials**

<b>Reference</b>	<b>Description</b>	<b>Specification</b>
G01043	Cloth - Lint-free	
G01306	Gloves - Lint-free	

**E. Expendables/Parts**

<b>AMM Item</b>	<b>Description</b>	<b>AIPC Reference</b>	<b>AIPC Effectivity</b>
34	Light control PBA	33-43-11-03A-110	LOM 461-463
		33-43-11-03A-112	LOM 461-463
		33-43-11-03A-113	LOM 461-463
		33-43-11-03B-110	LOM 431, 437-447, 450-460, 464-999
		33-43-11-03B-112	LOM 431, 437-447, 450-460, 464-999

EFFECTIVITY  
**LOM ALL; AIRPLANES WITH WINGLETS**



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**LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS (Continued)**

(Continued)

<b>AMM Item</b>	<b>Description</b>	<b>AIPC Reference</b>	<b>AIPC Effectivity</b>
34 (cont.)		33-43-11-03B-113	LOM 431, 437-447, 450-460, 464-999
		33-43-11-16-140	LOM 461-463
		33-43-11-16-145	LOM 461-463
		33-43-11-16-150	LOM 461-463

**F. Location Zones**

<b>Zone</b>	<b>Area</b>
527	Left Winglet
627	Right Winglet

**G. LED Light Control PBA Replacement**



**DO NOT TOUCH THE POSITION LIGHT FOR 10 MINUTES AFTER YOU REMOVE ELECTRICAL POWER. AN ELECTRICAL SHOCK CAN CAUSE INJURY TO PERSONS OR DAMAGE TO EQUIPMENT.**

SUBTASK 33-43-10-860-011

- (1) Open the applicable circuit breaker and install the safety tag:  
(WDM 33-43-11)

**CAPT Electrical System Panel, P18-3**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
A	12	C00113	EXTERIOR LIGHTING POSITION RIGHT
A	13	C00114	EXTERIOR LIGHTING POSITION LEFT

**LOM ALL**

SUBTASK 33-43-10-020-002

- (2) Remove the forward position lens assembly, do this task: Forward Position Light and Anti-Collision Light Lens (Dual Forward Lens) Removal, TASK 57-21-22-000-803.

**LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS**

SUBTASK 33-43-10-020-003



**WHEN YOU REMOVE AN ELECTROSTATIC DISCHARGE SENSITIVE (ESDS) UNIT, MAKE SURE YOU PUT COVERS ON THE ELECTRICAL CONNECTORS. USE ELECTROSTATIC DISCHARGE (ESD) SAFE DUST CAPS. IF THE CONNECTORS DO NOT HAVE COVERS ON THEM, INJURY TO PERSONS AND DAMAGE TO THE COMPONENT CAN OCCUR.**

- (3) Remove the forward position light LED modules, do this task: Forward Position Light with Dual Lens - Lamp Replacement, TASK 33-43-11-960-802.

EFFECTIVITY  
**LOM ALL; AIRPLANES WITH WINGLETS**

**33-43-10**



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LOM 431, 437-447, 450-999; AIRPLANES WITH LED POSITION LIGHT ASSEMBLIES WITH A SWITCHING REGULATOR.

SUBTASK 33-43-10-960-002



**WARNING**

WHEN YOU REMOVE AN ELECTROSTATIC DISCHARGE SENSITIVE (ESDS) UNIT, MAKE SURE YOU PUT COVERS ON THE ELECTRICAL CONNECTORS. USE ELECTROSTATIC DISCHARGE (ESD) SAFE DUST CAPS. IF THE CONNECTORS DO NOT HAVE COVERS ON THEM, INJURY TO PERSONS AND DAMAGE TO THE COMPONENT CAN OCCUR.

- (4) Do these steps to replace the light control PBA [34]:

NOTE: Do not touch the new light control PBA with your hands. Use lint-free gloves, G01306, or lint-free cloth, G01043.

- (a) Before you touch the Passenger Service Unit (PSU) circuit board, do this task: ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.
- (b) Connect the jack end of the static control wrist strap, COM-1565, to an unpainted surface of the primary structure.
- (c) Remove the six screws [31] and remove the cover assembly [32].
- (d) Disconnect the electrical connectors [38] from the light control PBA [34].
- (e) Remove the four screws [33].
- (f) Remove the light control PBA [34] away from the standoffs on the housing assembly.
- (g) Disconnect the electrical connector [39] from the light control PBA [34].
- (h) Replace the light control PBA [34].
- (i) Connect the electrical connector [39] to the replacement light control PBA [34].
- (j) Install the replacement light control PBA [34] with the four screws [33].
  - 1) Tighten the screws [33] to 10 in-lb (1 N·m).
  - 2) Stake the screws [33] with EC2216BA adhesive (View B, Figure 202).
- (k) Connect the electrical connectors [38] to the replacement light control PBA [34].
- (l) Install the cover assembly [32] and tighten the six screws [31].

LOM 431, 437-447, 450-999; AIRPLANES WITH LED POSITION LIGHT ASSEMBLIES WITH A LINEAR REGULATOR.

SUBTASK 33-43-10-960-003



**WARNING**

WHEN YOU REMOVE AN ELECTROSTATIC DISCHARGE SENSITIVE (ESDS) UNIT, MAKE SURE YOU PUT COVERS ON THE ELECTRICAL CONNECTORS. USE ELECTROSTATIC DISCHARGE (ESD) SAFE DUST CAPS. IF THE CONNECTORS DO NOT HAVE COVERS ON THEM, INJURY TO PERSONS AND DAMAGE TO THE COMPONENT CAN OCCUR.

- (5) Do these steps to replace the light control PBA [34]:

NOTE: Do not touch the new light control PBA with your hands. Use lint-free gloves, G01306, or lint-free cloth, G01043.

- (a) Before you touch the PSU circuit board, do this task: ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.
- (b) Connect the jack end of the static control wrist strap, COM-1565, to an unpainted surface of the primary structure.

EFFECTIVITY  
LOM ALL; AIRPLANES WITH WINGLETS

**33-43-10**



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**LOM 431, 437-447, 450-999; AIRPLANES WITH LED POSITION LIGHT ASSEMBLIES WITH A LINEAR REGULATOR. (Continued)**

- (c) Remove the nine screws [31] and locknut [37] to remove the cover assembly [32].
- (d) Disconnect the electrical connectors [38] from the light control PBA [34].
- (e) Remove the two screws [33] and two male-female standoffs [35] from the light control PBA [34].
- (f) Remove the light control PBA [34] away from the standoffs on the housing assembly.
- (g) Disconnect the electrical connector [39] from the light control PBA [34].
- (h) Replace the light control PBA [34].
- (i) Connect the electrical connector [39] to the replacement light control PBA [34].
- (j) Install the replacement light control PBA [34] with the two male-female standoffs [35] and two screws [33].
  - 1) Tighten the screws [33] to 10 in-lb (1 N·m).
  - 2) Stake the screws [33] with EC2216BA adhesive (View B, Figure 202).
- (k) Connect the electrical connectors [38] to the replacement light control PBA [34].
- (l) Install the cover assembly [32] with the nine screws [31] and locknut [37].
  - 1) Tighten the six screws [31] located along the edges.
  - 2) Tighten the remaining three screws [31] and locknut [37] to 9 in-lb (1.0 N·m) - 11 in-lb (1.2 N·m).
  - 3) Stake the remaining three screws [31] and locknut [37] with EC2216BA adhesive (View B, Figure 202).

**LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS**

**SUBTASK 33-43-10-420-002**

- (6) Install the forward position light LED modules, do this task: Forward Position Light with Dual Lens - Lamp Replacement, TASK 33-43-11-960-802.

**LOM ALL**

**SUBTASK 33-43-10-420-003**

- (7) Install the forward position lens assembly, do this task: Forward Position Light and Anti-Collision Light Lens (Dual Forward Lens) Installation, TASK 57-21-22-400-804.

**LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS**

**SUBTASK 33-43-10-860-012**

- (8) Remove the safety tag and close the applicable circuit breaker:

**CAPT Electrical System Panel, P18-3**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
A	12	C00113	EXTERIOR LIGHTING POSITION RIGHT
A	13	C00114	EXTERIOR LIGHTING POSITION LEFT

**SUBTASK 33-43-10-860-013**

- (9) If necessary, do this task: Supply Electrical Power, TASK 24-22-00-860-811.

**SUBTASK 33-43-10-710-005**

- (10) Do a test of the new light control PBA [34] (position lights):
  - (a) At the P5 overhead panel, set the switch for the position lights to the ON mode.

EFFECTIVITY  
**LOM ALL; AIRPLANES WITH WINGLETS**

**33-43-10**



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**LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS (Continued)**

- 1) Make sure that the LED lights come on.
- (b) Set the switch to the OFF mode.
  - 1) Make sure that the LED lights go off.

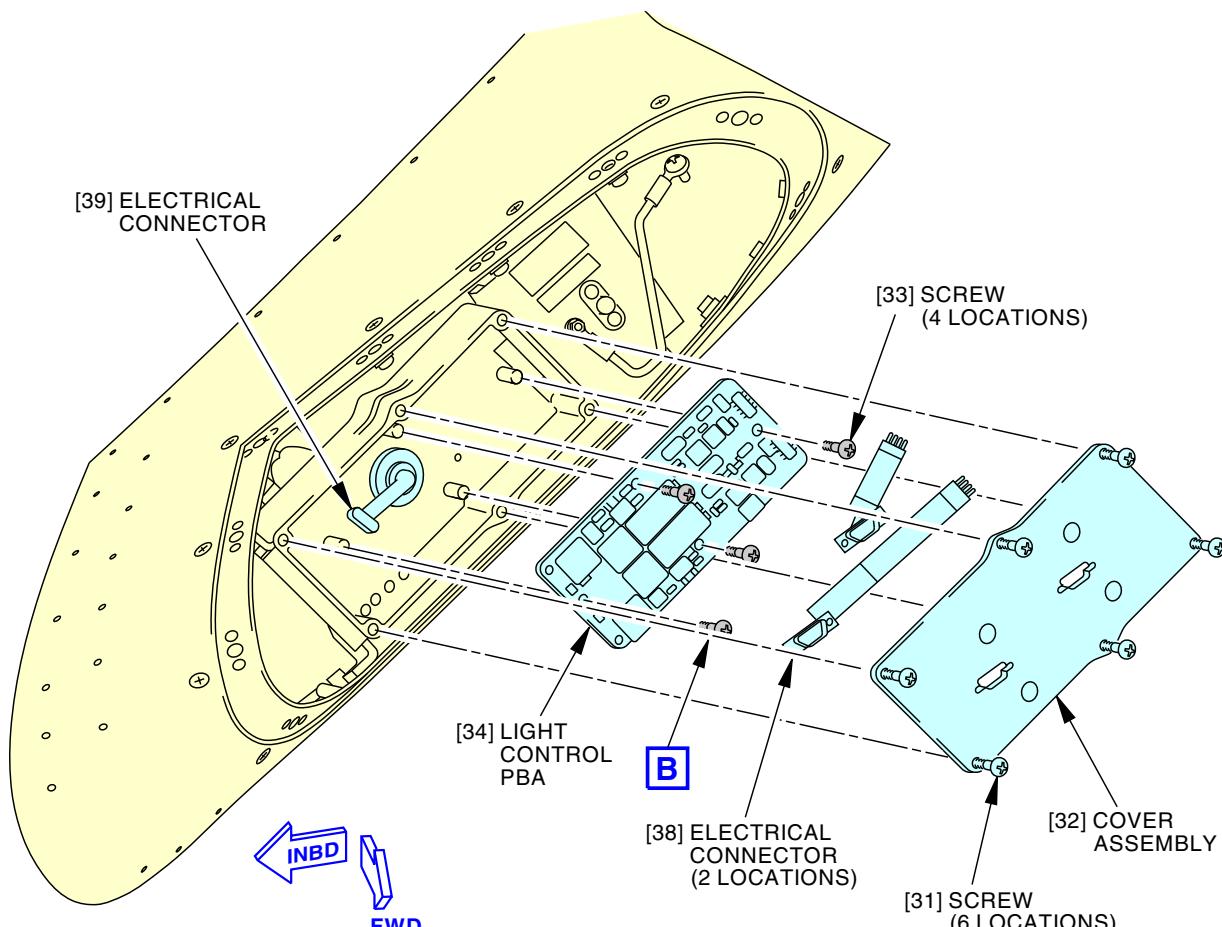
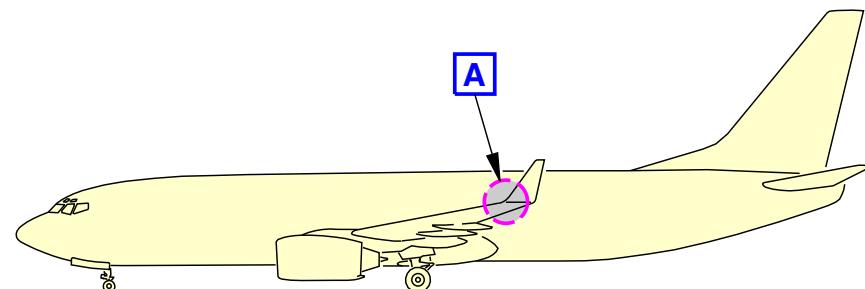
———— END OF TASK ————

— EFFECTIVITY —  
**LOM ALL; AIRPLANES WITH WINGLETS**

**33-43-10**



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AIRCRAFT MAINTENANCE MANUAL



FORWARD POSITION LIGHT  
(POSITION LIGHT LENS ASSEMBLY REMOVED)

A

2273984 S0000511808\_V3

Position Light - LED Light Control PBA Replacement  
Figure 202/33-43-10-990-803 (Sheet 1 of 3)

EFFECTIVITY  
LOM 431, 437-447, 450-999; AIRPLANES WITH LED  
POSITION LIGHT ASSEMBLIES WITH A SWITCHING  
REGULATOR.

D633A101-LOM

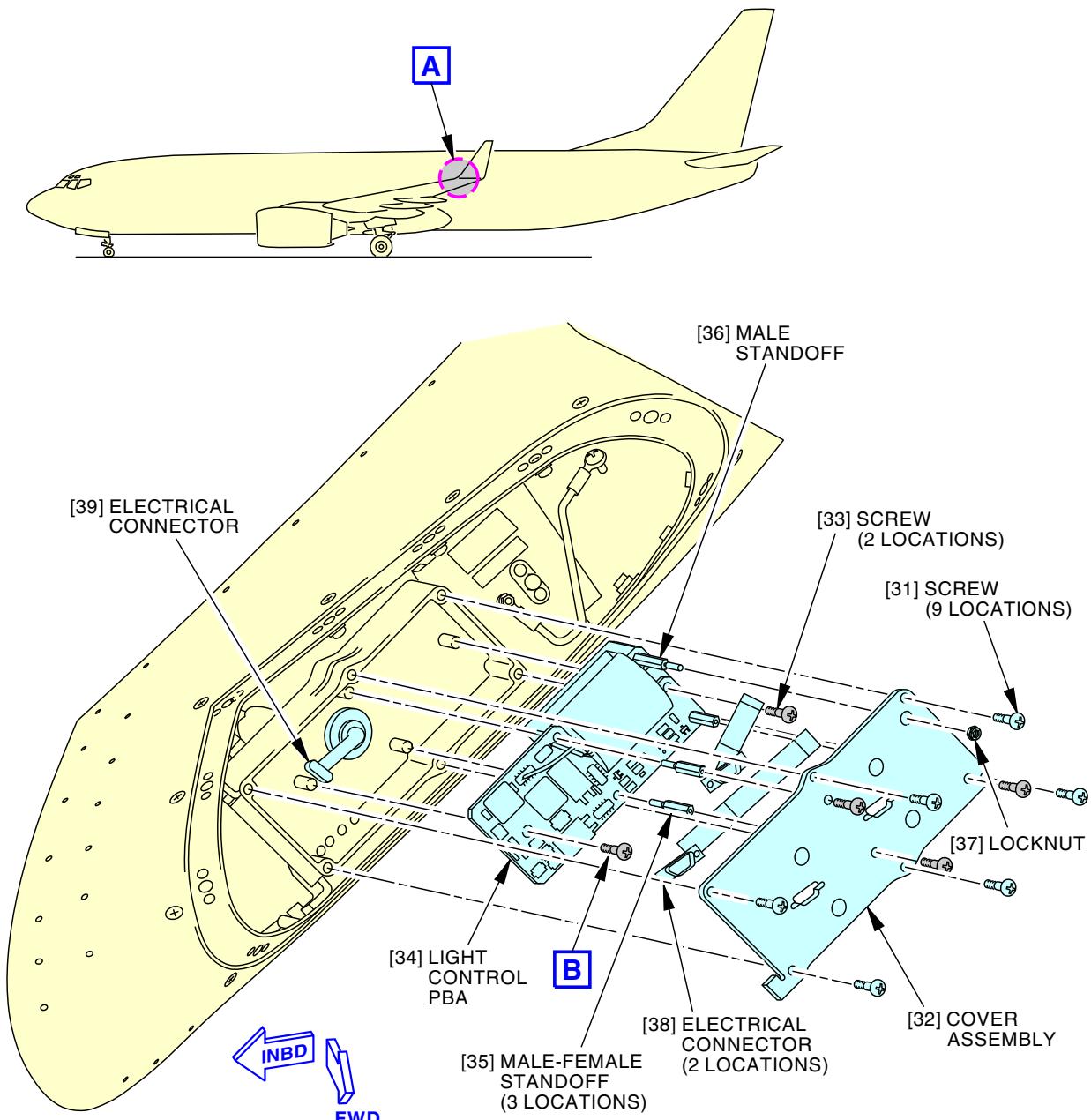
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FORWARD POSITION LIGHT  
(POSITION LIGHT LENS ASSEMBLY IS REMOVED)

A

2560670 S0000610672\_V2

Position Light - LED Light Control PBA Replacement  
Figure 202/33-43-10-990-803 (Sheet 2 of 3)

EFFECTIVITY  
LOM 431, 437-447, 450-999; AIRPLANES WITH LED  
POSITION LIGHT ASSEMBLIES WITH A LINEAR  
REGULATOR.

D633A101-LOM

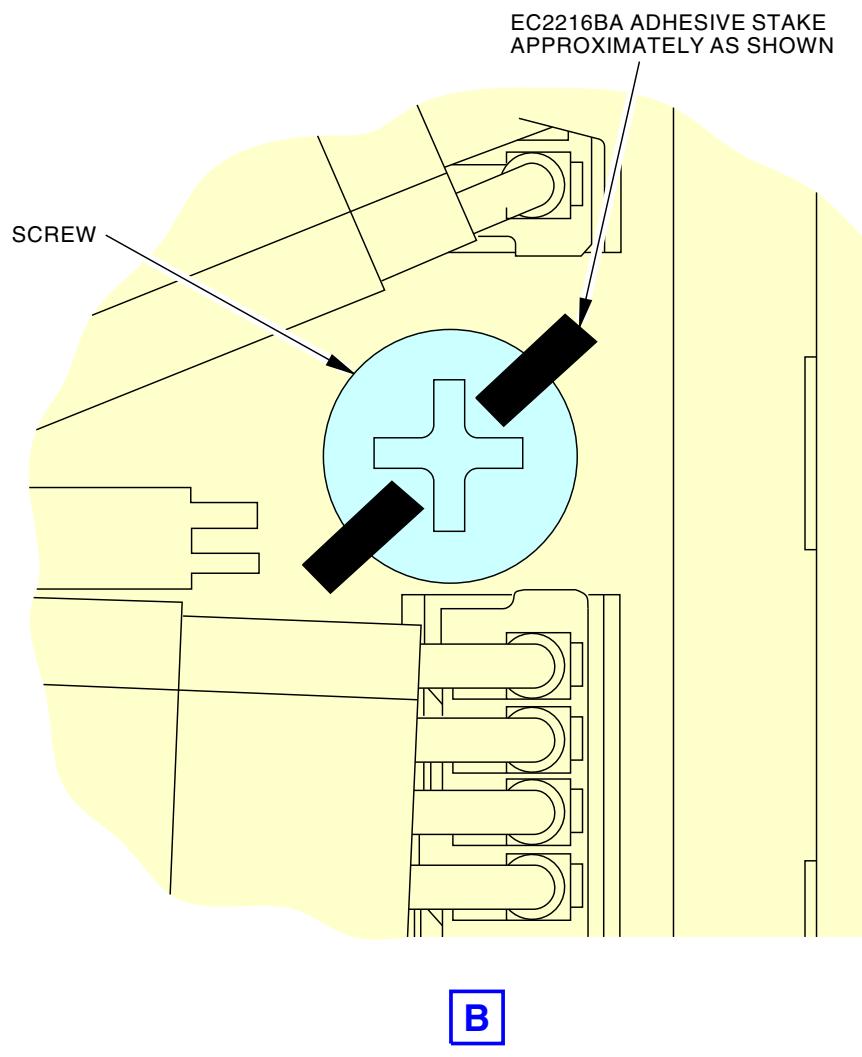
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Position Light - LED Light Control PBA Replacement  
Figure 202/33-43-10-990-803 (Sheet 3 of 3)

EFFECTIVITY  
LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS

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AIRCRAFT MAINTENANCE MANUAL

LOM ALL; AIRPLANES WITH WINGLETS

**TASK 33-43-10-710-801**

**6. Position Lights - Operational Test**

(Figure 201)

**A. References**

Reference	Title
33-43-11-960-802	Forward Position Light with Dual Lens - Lamp Replacement (P/B 201)
WDM 33-43-11	Wiring Diagram Manual

**B. Location Zones**

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

**C. Procedure**

**LOM ALL**

**SUBTASK 33-43-10-710-003**

- (1) Do a test of the position lights on the wings (WDM 33-43-11):

- (a) At the overhead panel, P5, set the POSITION switch to STEADY.
  - 1) Make sure that the forward and aft position lights on both wings come on:
    - a) Make sure that the forward red lamps and the aft white lamps on the left wingtip come on.
    - b) Make sure that the forward green lights and the aft white lights on the right wingtip come on.
    - c) Make sure that the strobe light on each wingtip remains off.

**LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS**

**NOTE:** There are two Light Emitting Diode (LED) module assemblies in each light assembly. All LEDs in the LED modules must be operational per certification requirement. If a single LED is not operational, then the module intensity is not sufficient to meet the requirement.

- 2) When the position lights reach their module's calculated end of life, as soon as power is applied, the light will turn on for 4 seconds, and then turn off and remain off even with power applied. This function will repeat every time the power is reapplied. Replace the LED modules when this end of life flashing sequence is encountered (TASK 33-43-11-960-802).

**LOM ALL**

- (b) Set the POSITION switch to OFF.
  - 1) Make sure that the lights go off.
- (c) At the overhead panel, P5, set the POSITION switch to STROBE & STEADY.
  - 1) Make sure that the forward and aft position lights on both wings come on:
    - a) Make sure that the forward red lamps and the aft white lamps on the left wingtip come on.

EFFECTIVITY  
**LOM ALL; AIRPLANES WITH WINGLETS**

**33-43-10**



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**LOM ALL (Continued)**

- b) Make sure that the forward green lights and the aft white lights on the right wingtip come on.
- c) Make sure that the strobe light on each wingtip comes on.

**LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS**

NOTE: There are two LED module assemblies in each light assembly. All LEDs in the LED modules must be operational per certification requirement. If a single LED is not operational, then the module intensity is not sufficient to meet the requirement.

**LOM ALL**

NOTE: Strobes come on when the POSITION light switch is set to STROBE & STEADY.

**LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS**

- 2) When the position lights reach their module's calculated end of life, as soon as power is applied, the light will turn on for 4 seconds, and then turn off and remain off even with power applied. This function will repeat every time the power is reapplied. Replace the LED modules when this end of life flashing sequence is encountered (TASK 33-43-11-960-802).

**LOM ALL**

- (d) Set the POSITION switch to OFF.
- 1) Make sure that the lights go off.

**LOM ALL; AIRPLANES WITH WINGLETS**

— END OF TASK —

**TASK 33-43-10-020-801**

**7. Position Lights - Disconnect the Electrical Connector**

(Figure 203)

**A. General**

- (1) Use this procedure when it is necessary to remove the winglet.

**B. References**

Reference	Title
WDM 33-43-11	Wiring Diagram Manual

**C. Access Panels**

Number	Name/Location
527AB	Winglet Access Panel
627AB	Winglet Access Panel

**D. Procedure**

SUBTASK 33-43-10-860-007

- (1) Open the applicable circuit breaker and install the safety tag:  
(WDM 33-43-11)

EFFECTIVITY  
**LOM ALL; AIRPLANES WITH WINGLETS**

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**CAPT Electrical System Panel, P18-3**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	12	C00113	EXTERIOR LIGHTING POSITION RIGHT
A	13	C00114	EXTERIOR LIGHTING POSITION LEFT

SUBTASK 33-43-10-010-001

- (2) Open the applicable access panel:

<u>Number</u>	<u>Name/Location</u>
527AB	Winglet Access Panel
627AB	Winglet Access Panel

SUBTASK 33-43-10-020-001

- (3) Disconnect the electrical connector [21].

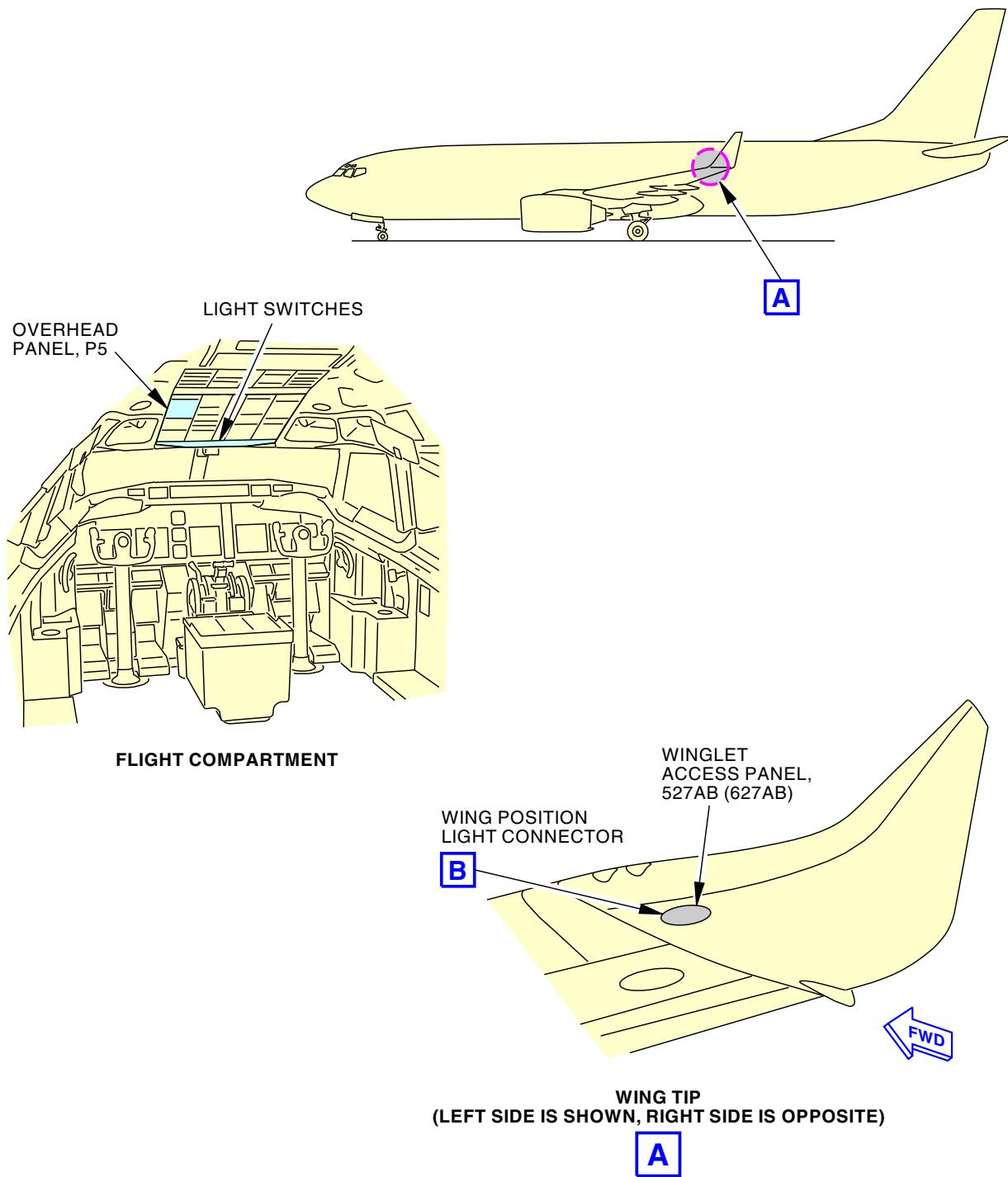
———— END OF TASK ————

EFFECTIVITY  
LOM ALL; AIRPLANES WITH WINGLETS

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**Position Lights - Disconnect/Connect the Electrical Connector**  
Figure 203/33-43-10-990-802 (Sheet 1 of 2)

EFFECTIVITY  
LOM ALL

**33-43-10**

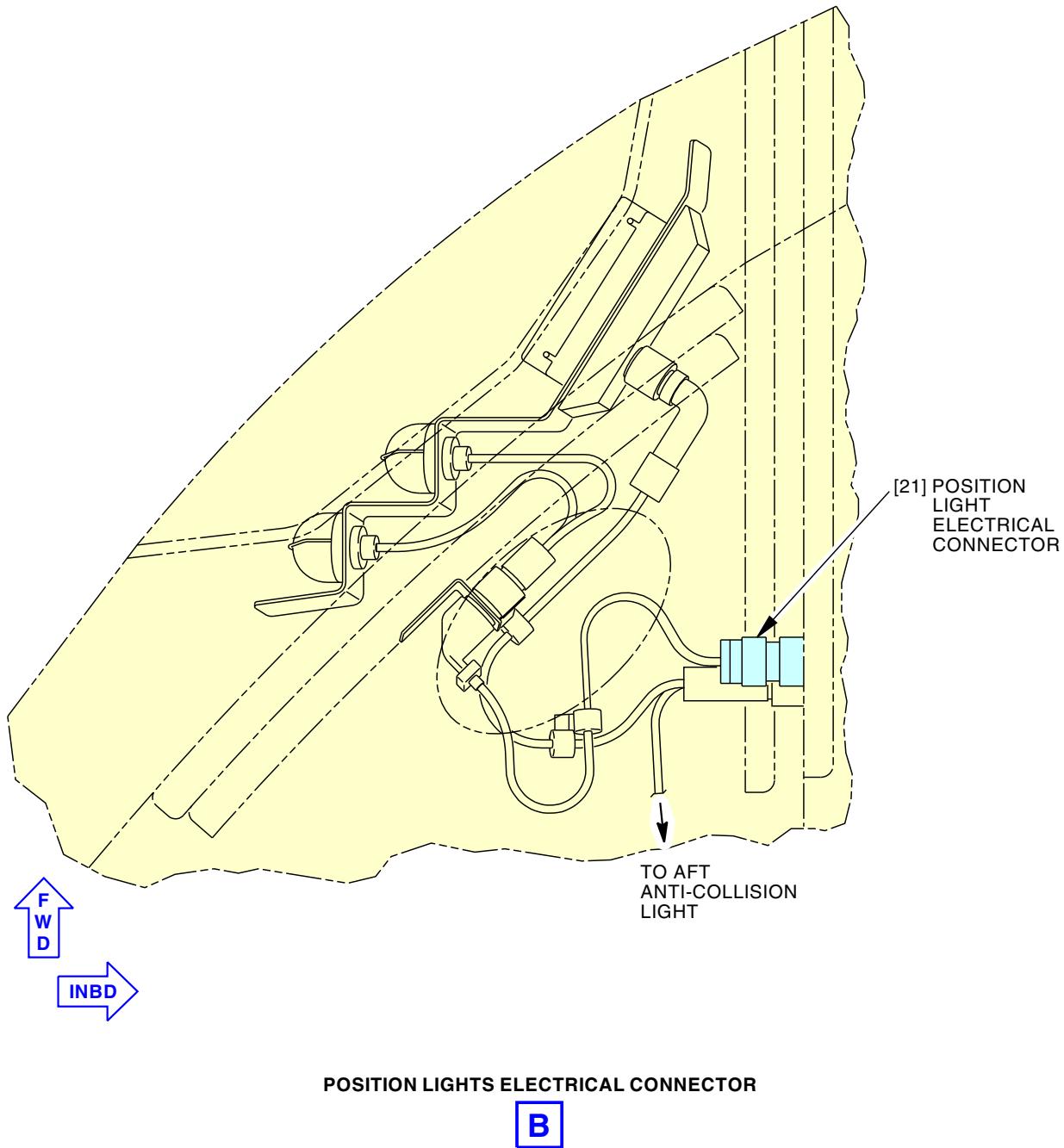
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L83280 S0006576221\_V2

**Position Lights - Disconnect/Connect the Electrical Connector**  
Figure 203/33-43-10-990-802 (Sheet 2 of 2)

EFFECTIVITY  
LOM ALL; AIRPLANES WITH WINGLETS

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**TASK 33-43-10-420-801**

**8. Position Lights - Connect the Electrical Connector**

(Figure 203)

**A. General**

- (1) Use this procedure when it is necessary to install the winglet.

**B. References**

<b>Reference</b>	<b>Title</b>
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)

**C. Location Zones**

<b>Zone</b>	<b>Area</b>
527	Left Winglet
627	Right Winglet

**D. Access Panels**

<b>Number</b>	<b>Name/Location</b>
527AB	Winglet Access Panel
627AB	Winglet Access Panel

**E. Procedure**

SUBTASK 33-43-10-420-001

- (1) Connect the electrical connector [21].

SUBTASK 33-43-10-010-002

- (2) Close the applicable access panel:

<b>Number</b>	<b>Name/Location</b>
527AB	Winglet Access Panel
627AB	Winglet Access Panel

SUBTASK 33-43-10-860-008

- (3) Remove the safety tag and close the applicable circuit breaker:

**CAPT Electrical System Panel, P18-3**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
A	12	C00113	EXTERIOR LIGHTING POSITION RIGHT
A	13	C00114	EXTERIOR LIGHTING POSITION LEFT

SUBTASK 33-43-10-860-009

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

SUBTASK 33-43-10-710-004

- (5) Do a test of the electrical connection:

- At the overhead panel, P5, set the switch for the position lights to the on mode.
  - Make sure the applicable position lights come on.
- Set the switch to the off mode.
  - Make sure the lights go off.

SUBTASK 33-43-10-860-010

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

———— END OF TASK ————

EFFECTIVITY  
LOM ALL; AIRPLANES WITH WINGLETS

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WINGLET FORWARD POSITION LIGHTS - MAINTENANCE PRACTICES

**1. General**

- A. This procedure has the following task(s):
- (1) Forward Position Light - Dual Lamp Replacement
  - (2) Forward Position Light - Light Assembly Replacement

LOM ALL; AIRPLANES WITH DUAL FORWARD LENS CONFIGURATION

**TASK 33-43-11-960-802**

**2. Forward Position Light with Dual Lens - Lamp Replacement**

(Figure 201)

**A. General**

- (1) This procedure contains instructions to replace the forward position lamp or Light Emitting Diode (LED) module.

**B. References**

Reference	Title
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)
57-21-22-000-803	Forward Position Light and Anti-Collision Light Lens (Dual Forward Lens) Removal (P/B 201)
57-21-22-400-804	Forward Position Light and Anti-Collision Light Lens (Dual Forward Lens) Installation (P/B 201)
WDM 33-43-11	Wiring Diagram Manual

**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

**D. Consumable Materials**

Reference	Description	Specification
A50051	Sealant - P/S 890 Class B Fuel Tank Sealant	SAE AMS-S-8802 Class B
G01043	Cloth - Lint-free	
G01306	Gloves - Lint-free	



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**LOM ALL; AIRPLANES WITH DUAL FORWARD LENS CONFIGURATION (Continued)**

**E. Expendables/Parts**

<b>AMM Item</b>	<b>Description</b>	<b>AIPC Reference</b>	<b>AIPC Effectivity</b>
1	Lamp	33-43-11-02-085	LOM 402, 404, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-460, 464-999
		33-43-11-02A-100	LOM 402, 404, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-460, 464-999
1	LED module	33-43-11-03A-075 33-43-11-03A-080 33-43-11-03B-075 33-43-11-03B-080	LOM 461-463 LOM 461-463 LOM 402, 404, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-460, 464-999 LOM 402, 404, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-460, 464-999
1	Lamp	33-43-11-05-100 33-43-11-06-100 33-43-11-14-100 33-43-11-15-100	LOM 406 LOM 406 LOM 406 LOM 406
6	Lamp holder	33-43-01-05-190 33-43-11-02-087 33-43-11-02A-102 33-43-11-05-102 33-43-11-06-104 33-43-11-14-102 33-43-11-15-102	LOM 461-463 LOM 402, 404, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-460, 464-999 LOM 402, 404, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-460, 464-999 LOM 406 LOM 406 LOM 406 LOM 406

**F. Location Zones**

<b>Zone</b>	<b>Area</b>
527	Left Winglet
627	Right Winglet

EFFECTIVITY  
**LOM ALL**

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**AIRCRAFT MAINTENANCE MANUAL**

**LOM ALL; AIRPLANES WITH DUAL FORWARD LENS CONFIGURATION (Continued)**

**G. Forward Position Light with Dual Lens Lamp Replacement**

**LOM ALL; AIRPLANES WITH CONVENTIONAL WINGLET LIGHTS**

NOTE: There are two lamps in each light assembly. When it is necessary to replace one lamp, it is recommended that the second lamp be replaced at the same time.

**LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS**

NOTE: There are two LED modules in each light assembly. Because of the "End of Life" feature inherent to LED lights, both modules will most likely fail around the same time. Therefore, whenever it is necessary to replace one LED module, it is recommended to replace the second LED module at the same time.

NOTE: All LEDs in the LED modules must be operational per certification requirement. If a single LED is not operational, then the module intensity is not sufficient to meet the requirement.

**LOM ALL; AIRPLANES WITH DUAL FORWARD LENS CONFIGURATION**

SUBTASK 33-43-11-860-010

- (1) Open the applicable circuit breaker and install the safety tag:  
(WDM 33-43-11)

**CAPT Electrical System Panel, P18-3**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
A	12	C00113	EXTERIOR LIGHTING POSITION RIGHT
A	13	C00114	EXTERIOR LIGHTING POSITION LEFT

SUBTASK 33-43-11-020-003

- (2) Remove the forward position lens assembly, do this task: Forward Position Light and Anti-Collision Light Lens (Dual Forward Lens) Removal, TASK 57-21-22-000-803.

**LOM ALL; AIRPLANES WITH CONVENTIONAL WINGLET LIGHTS**

SUBTASK 33-43-11-960-003



**WARNING**

WHEN YOU REMOVE AN ELECTROSTATIC DISCHARGE SENSITIVE (ESDS) UNIT, MAKE SURE YOU PUT COVERS ON THE ELECTRICAL CONNECTORS. USE ELECTROSTATIC DISCHARGE (ESD) SAFE DUST CAPS. IF THE CONNECTORS DO NOT HAVE COVERS ON THEM, INJURY TO PERSONS AND DAMAGE TO THE COMPONENT CAN OCCUR.

- (3) Do these steps to replace the lamp [1] and lamp holder [6] (Figure 201):



**CAUTION**

DO NOT TOUCH THE CONNECTOR PINS, OR OTHER CONDUCTORS. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE COMPONENTS.

- (a) Before the lamp [1] is touched, do this task: ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.
- (b) Remove screw [3] and lanyard assembly [4] from the reflector assembly [2].
- (c) Remove screw [3] and reflector assembly [2] from the forward position light.

EFFECTIVITY  
**LOM ALL**

**33-43-11**



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**LOM ALL; AIRPLANES WITH CONVENTIONAL WINGLET LIGHTS (Continued)**

- (d) Carefully remove the lamp [1] from lamp holder [6].

NOTE: Do not touch the lamp with your hands. Use lint-free gloves, G01306, or lint-free cloth, G01043.

- (e) Do these steps to replace the lamp holder [6]:

NOTE: Only perform lamp holder replacement steps if needed or lamp holder is damaged.

- 1) Use a sharp knife to remove the sealant from the backside of forward position light and the lamp holder [6].
- 2) Loosen the captive screws [5] in the lamp holder [6].
- 3) Remove the lamp holder [6] from the forward position light.
- 4) Clean the sealant residue from the electrical wires of the lamp holder [6].
- 5) Clean sealant residue from lamp holder [6] and the forward position light.



**CAUTION**

DO NOT TOUCH THE CONNECTOR PINS, OR OTHER CONDUCTORS. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE COMPONENTS.

- 6) Before the lamp holder [6] is touched, do this task: ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802.
- 7) Put the new lamp holder [6] in its position on the forward position light and attach with four captive screws [5].
- 8) Apply a 0.25 in. (6.4 mm) thick bead of P/S 890 Class B sealant, A50051, to the mating surfaces of the electrical wires of lamp holder [6] and the forward position light.
  - a) Use clean lint-free cloth, G01043, to remove unwanted sealant.
  - b) Let the sealant dry for 4 hours by air.

- (f) Carefully install the new lamp [1] into lamp holder [6].

NOTE: Do not touch the lamp with your hands. Use lint-free gloves, G01306, or lint-free cloth, G01043.

- (g) Put the reflector assembly [2] in its position on the forward position light and attach with screw [3].

- (h) Put the lanyard assembly [4] on the reflector assembly [2] and attach with screw [3].

- (i) To replace the other lamp, do this procedure again.

- (j) Measure the electrical bonding resistance between the reflector assembly [2] and light support.
  - 1) Use an intrinsically safe approved bonding meter, COM-1550.
  - 2) Make sure that the electrical bonding resistance is 0.0025 ohm (2.5 milliohm) or less.

EFFECTIVITY  
LOM ALL

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### LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS

SUBTASK 33-43-11-960-004



#### WARNING

WHEN YOU REMOVE AN ELECTROSTATIC DISCHARGE SENSITIVE (ESDS) UNIT, MAKE SURE YOU PUT COVERS ON THE ELECTRICAL CONNECTORS. USE ELECTROSTATIC DISCHARGE (ESD) SAFE DUST CAPS. IF THE CONNECTORS DO NOT HAVE COVERS ON THEM, INJURY TO PERSONS AND DAMAGE TO THE COMPONENT CAN OCCUR.

- (4) Do these steps to replace the LED module [1] (Figure 201):

NOTE: Do not touch the LED module with your hands, use a lint-free cloth, G01043, or lint-free gloves, G01306.



#### CAUTION

DO NOT TOUCH THE CONNECTOR PINS, OR OTHER CONDUCTORS. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE COMPONENTS.

- (a) Before the LED module [1] is touched, do this task: ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.

- (b) Loosen the screws [3] and remove the LED module [1].

NOTE: The O-rings [8] are optional. The loosened screws attach to the LED module with the O-rings.



#### CAUTION

DO NOT TOUCH THE CONNECTOR PINS, OR OTHER CONDUCTORS. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE COMPONENTS.

- (c) Before the LED module [1] is touched, do this task: ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802.

- (d) Replace the LED module [1].

- (e) Install the LED module [1] and tighten the screws [3].

- (f) To replace the other LED module [1], do this procedure again.

### LOM ALL; AIRPLANES WITH DUAL FORWARD LENS CONFIGURATION

SUBTASK 33-43-11-420-001

- (5) Install the forward position lens assembly, do this task: Forward Position Light and Anti-Collision Light Lens (Dual Forward Lens) Installation, TASK 57-21-22-400-804.

SUBTASK 33-43-11-860-007

- (6) Remove the safety tag and close the applicable circuit breaker:

#### CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	12	C00113	EXTERIOR LIGHTING POSITION RIGHT
A	13	C00114	EXTERIOR LIGHTING POSITION LEFT

### LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS

SUBTASK 33-43-11-710-002

- (7) Do a test of the new LED modules [1] as follows:

- (a) Set the switch for the position lights, on the P5 overhead panel, to the ON mode.

EFFECTIVITY  
LOM ALL

**33-43-11**



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**LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS (Continued)**

- 1) Make sure that the lamps come on.

NOTE: There are two LED module assemblies in each light assembly. All LEDs in the LED modules must be operational per certification requirement. If a single LED is not operational, then the module intensity is not sufficient to meet the requirement.

- (b) Set the switch to the OFF mode.
  - 1) Make sure that the lamps go off.

**LOM ALL; AIRPLANES WITH CONVENTIONAL WINGLET LIGHTS**

SUBTASK 33-43-11-710-006

- (8) Do a test of the new lamps [1] as follows:

- (a) Set the switch for the position lights, on the P5 overhead panel, to the ON mode.
  - 1) Make sure that the lamps come on.
- (b) Set the switch to the OFF mode.
  - 1) Make sure that the lamps go off.

**LOM ALL; AIRPLANES WITH DUAL FORWARD LENS CONFIGURATION**

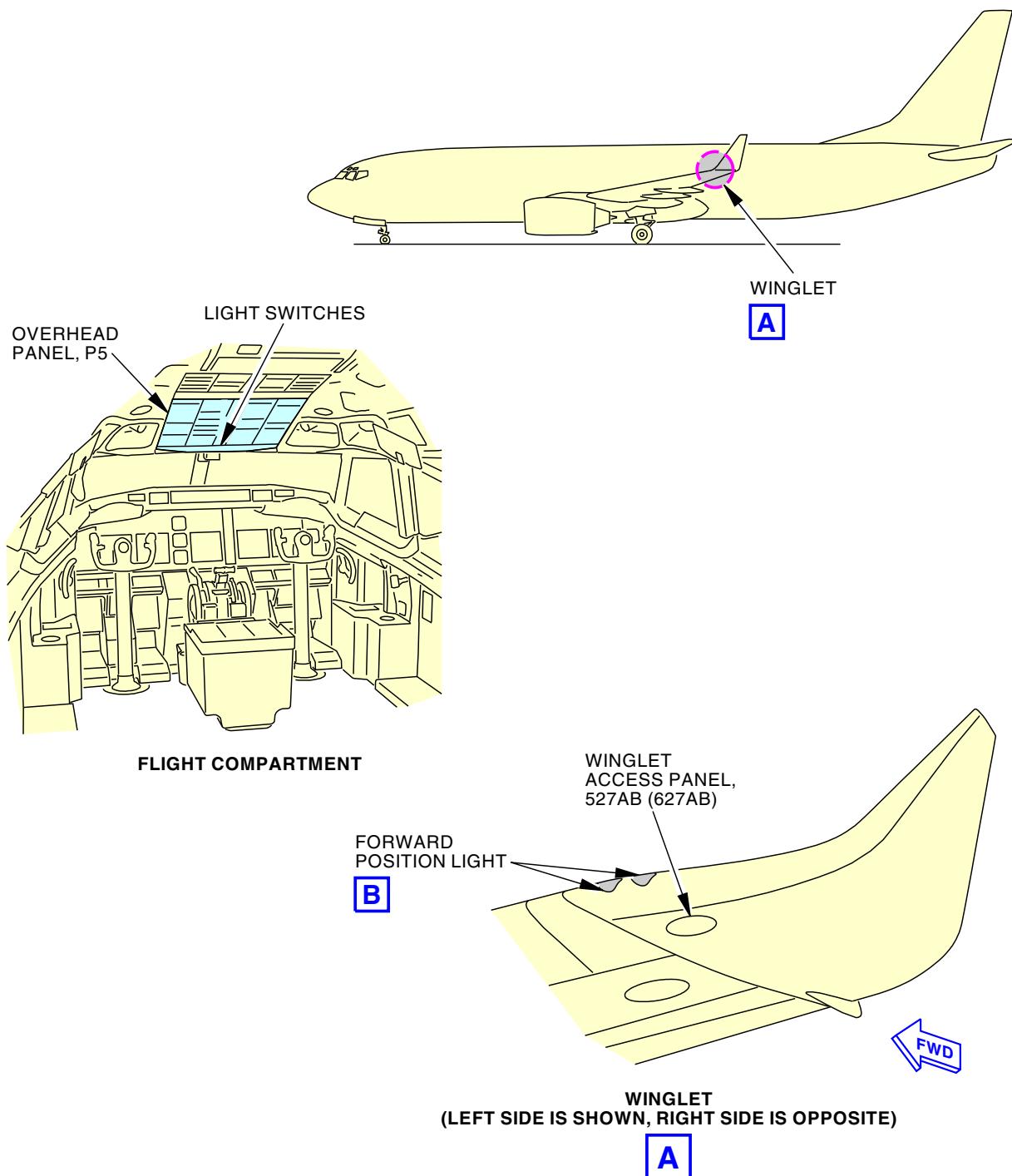
———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-43-11**



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**Forward Position Light - Lamp Replacement**  
Figure 201/33-43-11-990-802 (Sheet 1 of 3)

EFFECTIVITY  
LOM ALL; AIRPLANES WITH DUAL FORWARD  
LENS CONFIGURATION

**33-43-11**

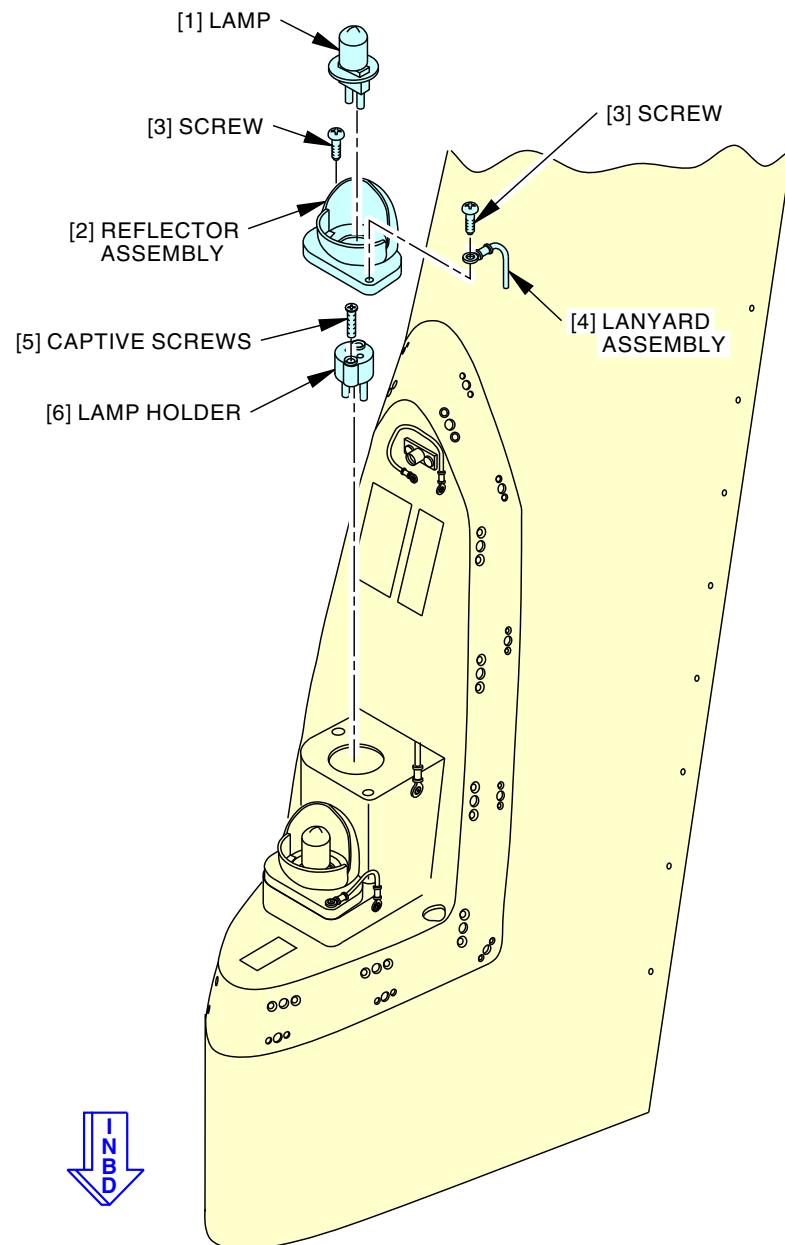
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FORWARD POSITION LIGHT  
(POSITION LIGHT LENS ASSEMBLY REMOVED)

B

479583 S0000142798\_V3

Forward Position Light - Lamp Replacement  
Figure 201/33-43-11-990-802 (Sheet 2 of 3)

EFFECTIVITY  
LOM ALL; AIRPLANES WITH CONVENTIONAL  
WINGLET LIGHTS

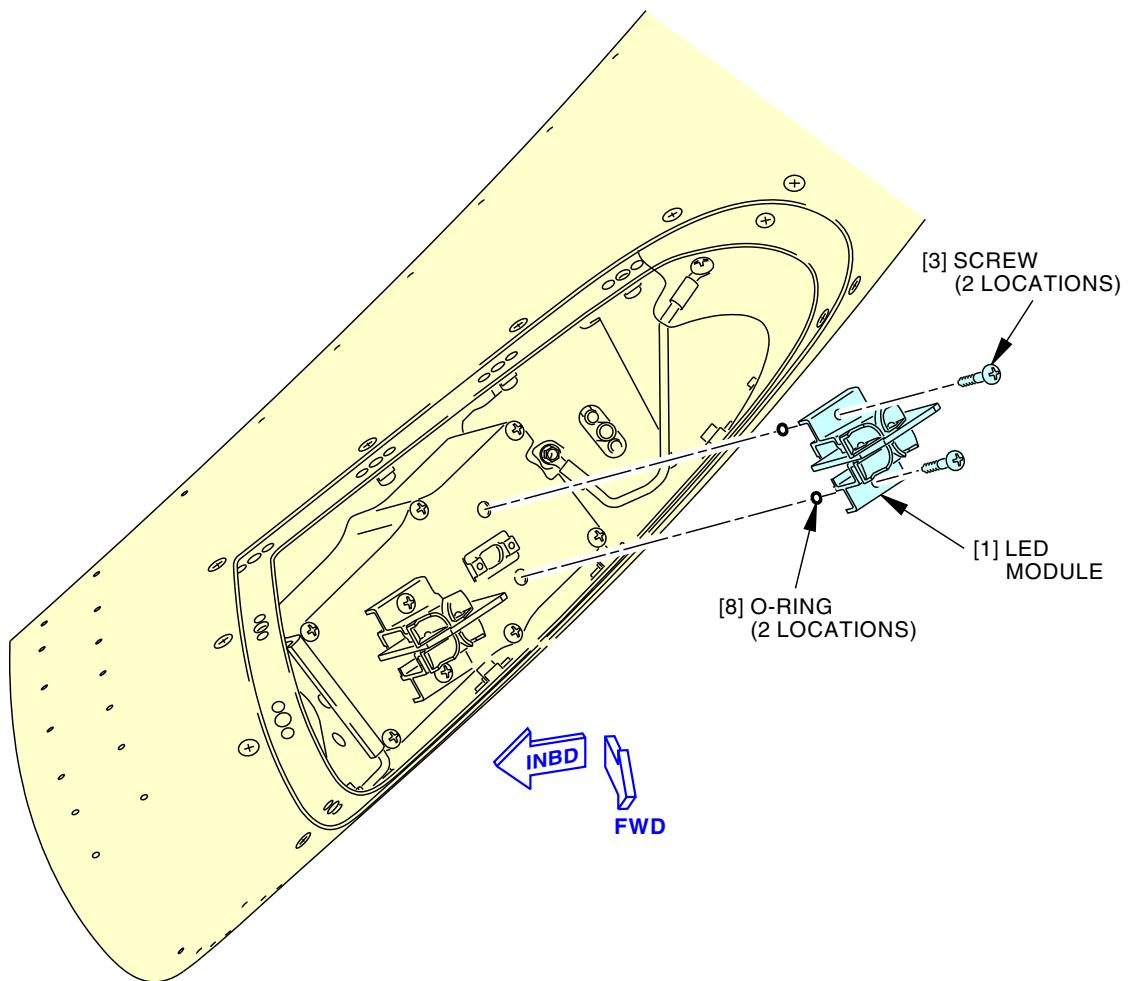
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FORWARD POSITION LIGHT  
(POSITION LIGHT LENS ASSEMBLY REMOVED)

B

3014217 S0000787835\_V1

Forward Position Light - Lamp Replacement  
Figure 201/33-43-11-990-802 (Sheet 3 of 3)

EFFECTIVITY  
LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS

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**LOM ALL; AIRPLANES WITH DUAL FORWARD LENS CONFIGURATION (Continued)**

**TASK 33-43-11-960-804**

**3. Forward Position Light – Light Assembly Replacement**

(Figure 202)

**A. General**

- (1) This task contains instructions to replace the light assembly for the forward position light.
- (2) There are two lamps or Light Emitting Diode (LED) modules in each light assembly.

**B. References**

Reference	Title
20-40-12-000-801	ESDS Handling for Printed Circuit Board Removal (P/B 201)
57-21-22-000-803	Forward Position Light and Anti-Collision Light Lens (Dual Forward Lens) Removal (P/B 201)
57-21-22-400-804	Forward Position Light and Anti-Collision Light Lens (Dual Forward Lens) 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-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

**D. Consumable Materials**

Reference	Description	Specification
A00247	Sealant - Pressure And Environmental - Chromate Type	BMS5-95
C00528	Compound - Corrosion Preventive, Petroleum Hot Application (Soft Film)	MIL-C-11796 Class III
G50367	Agent - Peelable Parting (Aztec Chemical AZ 634-2)	MIL-PRF-6799, BAC5000
G50368	Agent - Peelable Parting (Rexco Chemical Company - Partall Coverall Film)	BAC5000

**E. Location Zones**

Zone	Area
527	Left Winglet
627	Right Winglet



**33-43-11**



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**AIRCRAFT MAINTENANCE MANUAL**

**LOM ALL; AIRPLANES WITH DUAL FORWARD LENS CONFIGURATION (Continued)**

**F. Access Panels**

**Number      Name/Location**

527AB	Winglet Access Panel
627AB	Winglet Access Panel

**G. Prepare for the Forward Position Light Assembly Replacement**

SUBTASK 33-43-11-910-001

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

**CAPT Electrical System Panel, P18-3**

**Row    Col    Number    Name**

A	12	C00113	EXTERIOR LIGHTING POSITION RIGHT
A	13	C00114	EXTERIOR LIGHTING POSITION LEFT

SUBTASK 33-43-11-910-002

- (2) Before touching the light assembly, do the task for devices that are sensitive to electrostatic discharge (ESDS Handling for Printed Circuit Board Removal, TASK 20-40-12-000-801).

SUBTASK 33-43-11-020-006

- (3) Remove the forward position light lens assembly, do this task: Forward Position Light and Anti-Collision Light Lens (Dual Forward Lens) Removal, TASK 57-21-22-000-803.

SUBTASK 33-43-11-010-002

- (4) Open the applicable access panel under the left or right winglet, do these steps:

**Number      Name/Location**

527AB	Winglet Access Panel
627AB	Winglet Access Panel

- (a) Loosen the bolt in the center of the access panel [24].

NOTE: This bolt will be a handle to aid with the removal of the access panel from the winglet.

- (b) Remove the bolts [25] to remove the access panel [24].

**H. Forward Position Light Assembly Replacement**

**LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS**

SUBTASK 33-43-11-020-007

- (1) Do these steps to remove the forward position light assembly [21]:

- (a) Disconnect the electrical connector [11] through the access door.
- (b) Remove the screw [14] and spacer [12] to disconnect the clamp [13] from the cable support.
- (c) Remove the screws [22] from the leading edge skin.
- (d) Carefully remove the light assembly [21] from the leading edge skin.

NOTE: You can push the light assembly into the winglet to aid in the removal of the light assembly.

- (e) If it is necessary, remove the remaining sealant from the faying surfaces of the skin.

EFFECTIVITY  
LOM ALL

**33-43-11**



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**LOM ALL; AIRPLANES WITH CONVENTIONAL WINGLET LIGHTS**

SUBTASK 33-43-11-020-008

- (2) Do these steps to remove the forward position light assembly [23]:
  - (a) Disconnect the electrical connector [11] through the access door.
  - (b) Remove the screw [14] and spacer [12] to disconnect the clamp [13] from the cable support.
  - (c) Remove the screws [22] from the leading edge skin.
  - (d) Carefully remove the light assembly [23] from the leading edge skin.  
NOTE: You can push the light assembly into the winglet to aid in the removal of the light assembly.
  - (e) If it is necessary, remove the remaining sealant from the faying surfaces of the skin.

**LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS**

SUBTASK 33-43-11-420-004

- (3) Do these steps to install a new forward position light assembly [21]:
  - (a) At the 4 electrical bonding locations, prepare the electrical bonding surfaces (SWPM 20-20-00).
  - (b) Apply corrosion-preventative compound, C00528, to all areas of the fastener hole.
  - (c) Install the light assembly [21] with the screws [22].
    - 1) Torque the screws [22] to 8.00 in-lb (0.90 N·m) - 12.00 in-lb (1.36 N·m).
  - (d) Measure the electrical resistance between the light assembly [21] and leading edge skin.
    - 1) Use an intrinsically safe approved bonding meter, COM-1550.
    - 2) Make sure that the bonding resistance is 0.0005 ohms (0.5 milliohms) or less.
  - (e) Install the forward position light lens assembly, do this task: Forward Position Light and Anti-Collision Light Lens (Dual Forward Lens) Installation, TASK 57-21-22-400-804.
  - (f) Install the screw [14] and spacer [12] to connect the clamp [13] to the cable support.
  - (g) Connect the electrical connector [11] through the access door.

**LOM ALL; AIRPLANES WITH CONVENTIONAL WINGLET LIGHTS**

SUBTASK 33-43-11-420-006

- (4) Do these steps to install a new forward position light assembly [23]:
  - (a) At the 4 electrical bonding locations, prepare the electrical bonding surfaces (SWPM 20-20-00).
  - (b) Apply corrosion-preventative compound, C00528, to all areas of the fastener hole.
  - (c) Install the light assembly [23] with the screws [22].
    - 1) Torque the screws [22] to 8.00 in-lb (0.90 N·m) - 12.00 in-lb (1.36 N·m).
  - (d) Measure the electrical resistance between the light assembly [23] and leading edge skin.
    - 1) Use an intrinsically safe approved bonding meter, COM-1550.
    - 2) Make sure that the bonding resistance is 0.0005 ohms (0.5 milliohms) or less.
  - (e) Install the forward position light lens assembly, do this task: Forward Position Light and Anti-Collision Light Lens (Dual Forward Lens) Installation, TASK 57-21-22-400-804.
  - (f) Install the screw [14] and spacer [12] to connect the clamp [13] to the cable support.

EFFECTIVITY  
**LOM ALL**

**33-43-11**



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

**LOM ALL; AIRPLANES WITH CONVENTIONAL WINGLET LIGHTS (Continued)**

- (g) Connect the electrical connector [11] through the access door.

**LOM ALL; AIRPLANES WITH DUAL FORWARD LENS CONFIGURATION**

SUBTASK 33-43-11-410-002

- (5) Close the applicable access panel under the left or right winglet, do these steps:

**Number      Name/Location**

527AB	Winglet Access Panel
627AB	Winglet Access Panel

- (a) Remove AZ 634-2 peelable parting agent, G50367, or Rexco Partall Coverall Film peelable parting agent, G50368, from the mating surfaces of the access panel [24].
- (b) Examine a form in place and removable gasket of sealant, A00247, at the mating surfaces for the access panel [24] inside the winglet.
  - 1) If sealant, A00247, is damaged, remove and discard a form in place and removable gasket of sealant, A00247.
- (c) Apply AZ 634-2 peelable parting agent, G50367, or Rexco Partall Coverall Film peelable parting agent, G50368, to the mating surfaces of the access panel [24].
  - 1) Wait until the parting agent layer is dry to the touch.
- (d) If a form in place and removable gasket of sealant, A00247, is removed, do this step:
  - 1) Apply sealant, A00247, at the mating surfaces for the access panel [24] inside the winglet.
- (e) Put the access panel [24] inside the winglet.
- (f) Pull the access panel [24] outward with the bolt installed in the center of the access panel [24].
- (g) Install the bolts [25]:
  - 1) Apply corrosion preventive compound, C00528, to the hole, countersink, or counterbore and immediately install the fastener.
  - 2) Torque to 18 in-lb (2.03 N·m) - 25 in-lb (2.82 N·m).
  - 3) The countersunk heads must be flush with the surface -0.0100 in. (-0.2540 mm) low to 0.0000 in. (0.0000 mm) high.
- (h) Tighten the bolt in the center of the access panel [24].
  - 1) The countersunk heads must be flush with the surface -0.0100 in. (-0.2540 mm) low to 0.0000 in. (0.0000 mm) high.

SUBTASK 33-43-11-860-013

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

**CAPT Electrical System Panel, P18-3**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
A	12	C00113	EXTERIOR LIGHTING POSITION RIGHT
A	13	C00114	EXTERIOR LIGHTING POSITION LEFT

SUBTASK 33-43-11-710-004

- (7) Do a test of the new light assembly:

- (a) At the P5 overhead panel, set the switch for the position lights to the ON mode.
  - 1) Make sure that the lights come on.

EFFECTIVITY  
**LOM ALL**

**33-43-11**



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**LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS**

NOTE: There are two LED module assemblies in each light assembly. All position lights in the modules must be operational per certification requirement. If a single LED is not operational, the module intensity is not sufficient to meet the requirement.

**LOM ALL; AIRPLANES WITH DUAL FORWARD LENS CONFIGURATION**

- (b) Set the switch to the OFF mode.
- 1) Make sure that the lights go off.

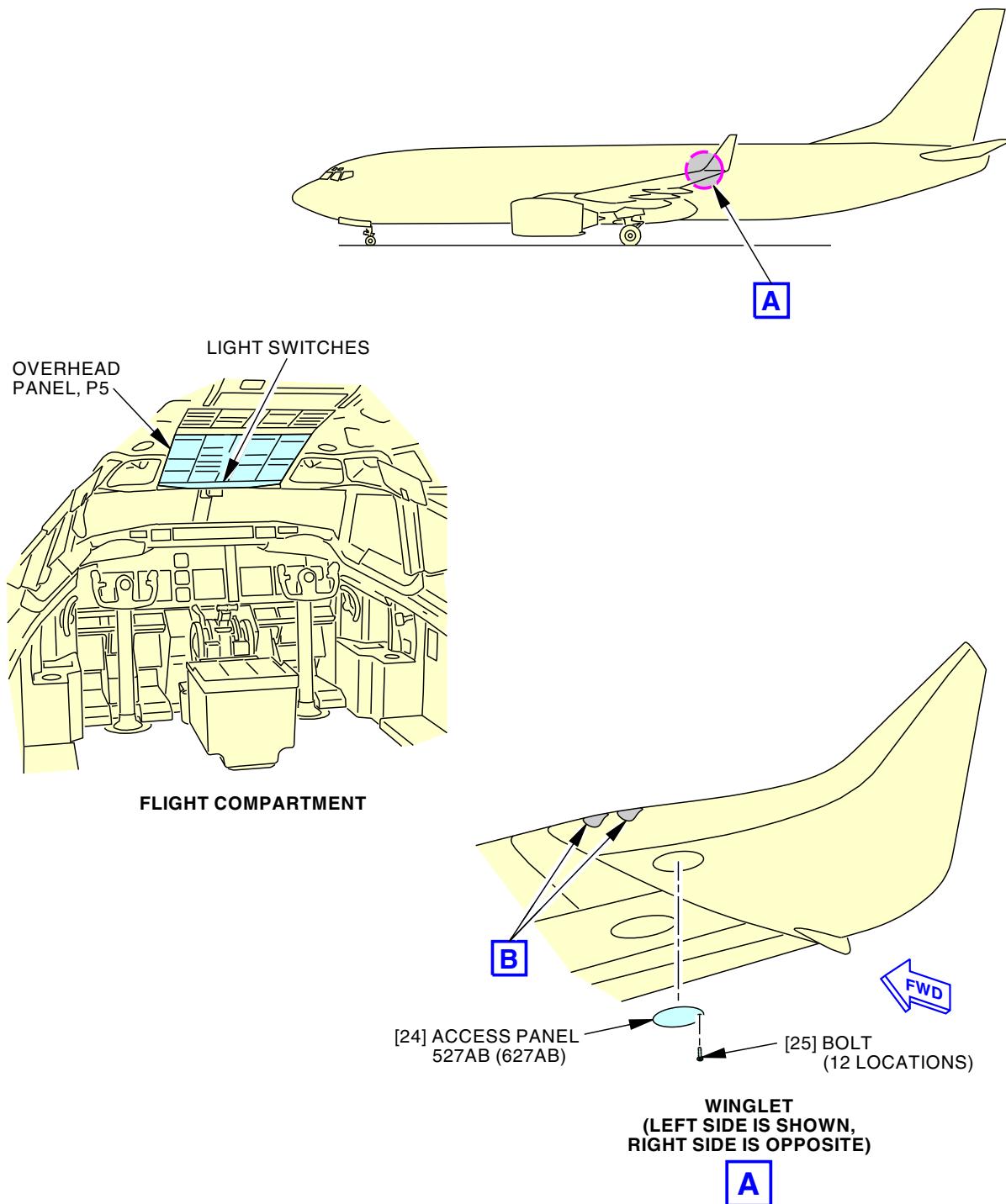
———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-43-11**



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2368279 S0000542403\_V3

**Forward Position Light - Light Assembly Replacement**  
Figure 202/33-43-11-990-804 (Sheet 1 of 4)

EFFECTIVITY  
LOM ALL; AIRPLANES WITH DUAL FORWARD  
LENS CONFIGURATION

**33-43-11**

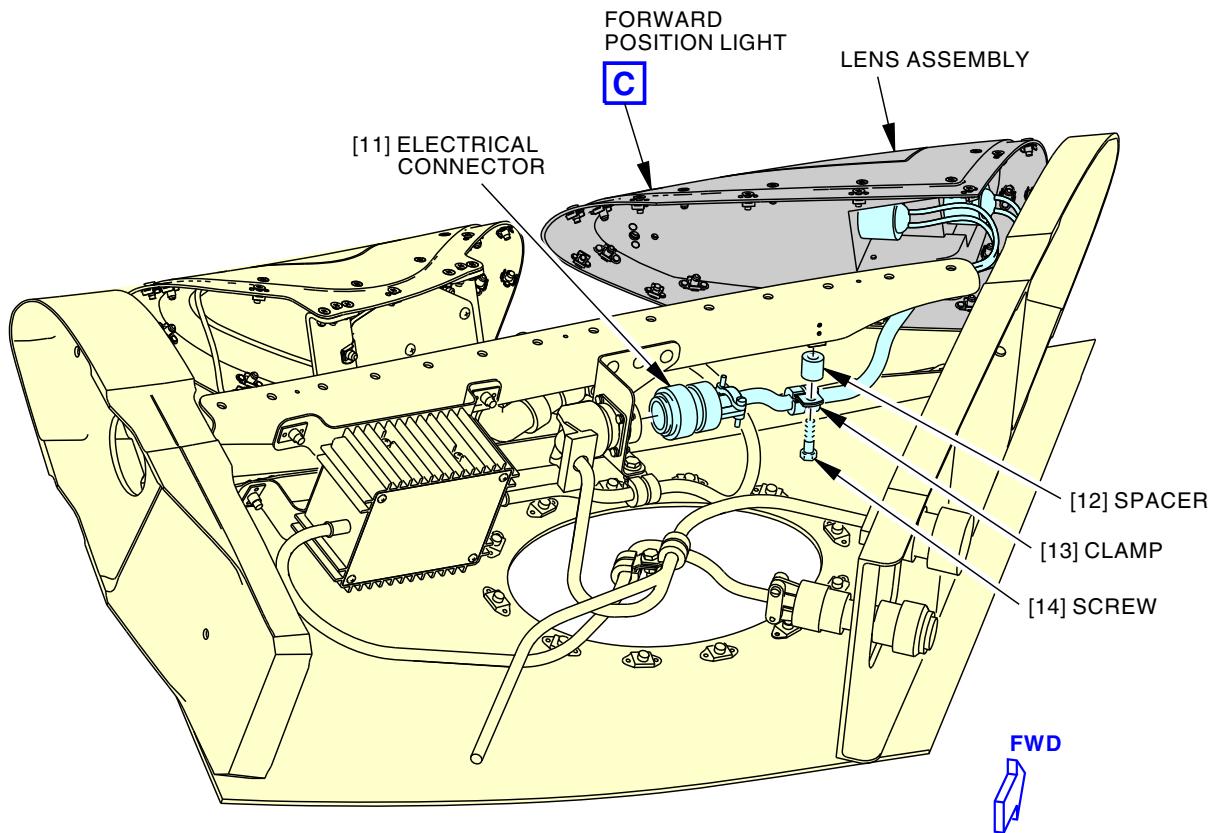
ECCN 9E991 BOEING PROPRIETARY - See title page for details

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(WINGLET LEADING EDGE SKIN NOT SHOWN FOR CLARITY)

B

2368299 S0000542404\_V3

Forward Position Light - Light Assembly Replacement  
Figure 202/33-43-11-990-804 (Sheet 2 of 4)

EFFECTIVITY  
LOM ALL; AIRPLANES WITH DUAL FORWARD  
LENS CONFIGURATION

33-43-11

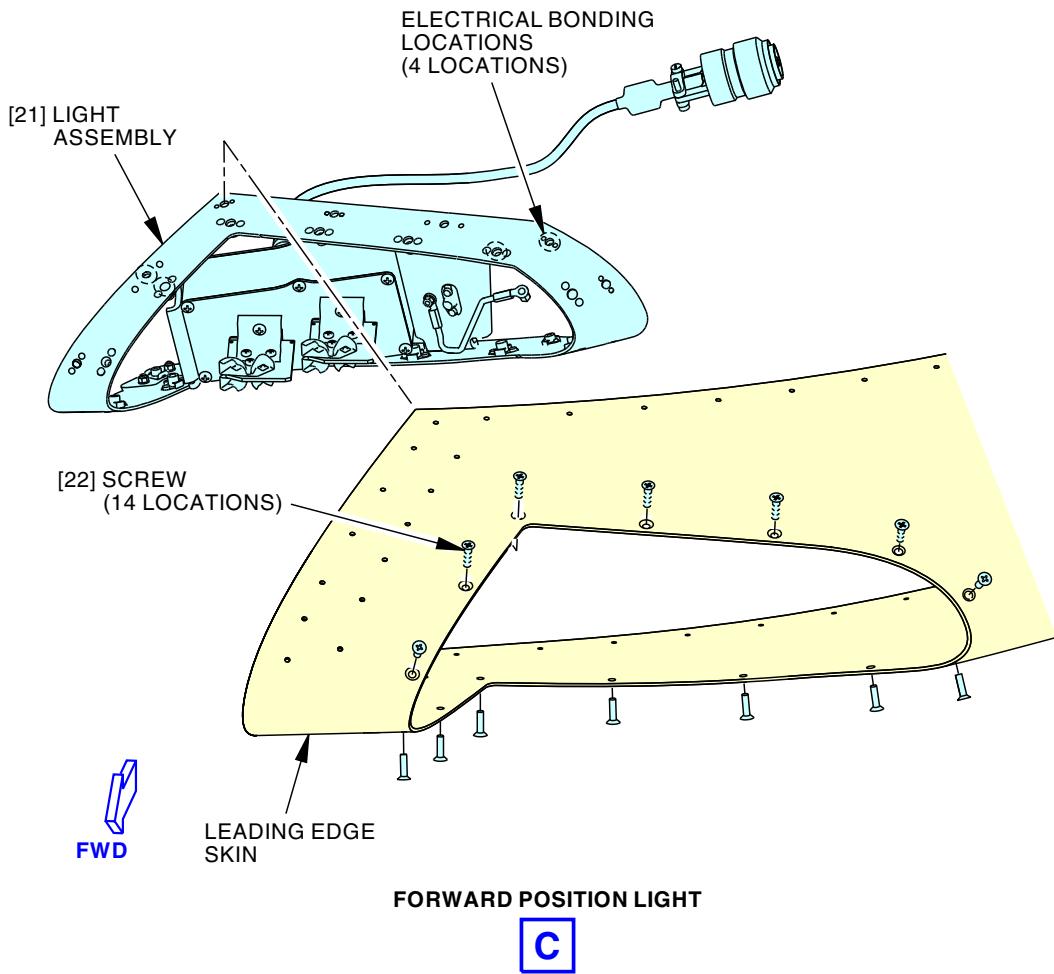
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2368317 S0000542405\_V3

**Forward Position Light - Light Assembly Replacement**  
**Figure 202/33-43-11-990-804 (Sheet 3 of 4)**

EFFECTIVITY  
LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS

**33-43-11**

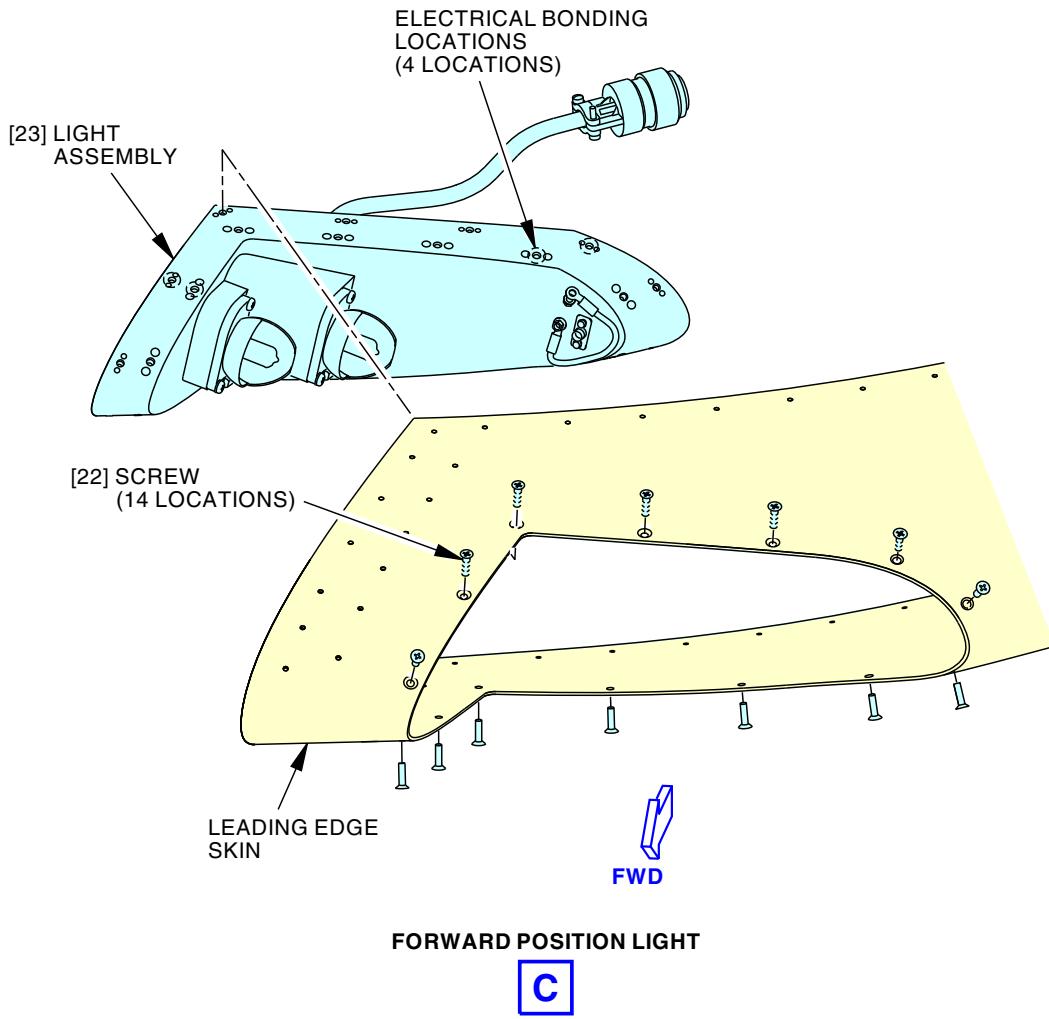
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2370996 S0000542531\_V3

Forward Position Light - Light Assembly Replacement  
Figure 202/33-43-11-990-804 (Sheet 4 of 4)

EFFECTIVITY  
LOM ALL; AIRPLANES WITH CONVENTIONAL  
WINGLET LIGHTS

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WINGLET AFT POSITION LIGHTS - MAINTENANCE PRACTICES

**1. General**

- A. This procedure has these tasks:
- (1) Deactivation of the aft position lights
  - (2) Activation of the aft position lights
  - (3) Replacement of the lamp for the aft position lights
  - (4) Replacement of the light assembly for the aft position lights.

**TASK 33-43-12-040-801**

**2. Aft Position Lights - Deactivation**

(Figure 201)

**A. General**

- (1) This task includes the steps to deactivate the aft position lights.

**B. Location Zones**

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right
526	Left Wing - Wing Tip
626	Right Wing - Wing Tip

**C. Aft Position Lights Deactivation**

SUBTASK 33-43-12-860-009

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

**CAPT Electrical System Panel, P18-3**

Row	Col	Number	Name
A	12	C00113	EXTERIOR LIGHTING POSITION RIGHT
A	13	C00114	EXTERIOR LIGHTING POSITION LEFT

**D. Aft Position Lights Tryout**

NOTE: This tryout is to make sure that the aft position lights are in a zero energy state.

SUBTASK 33-43-12-700-001

- (1) Set the position lights switch, on the P5 forward overhead panel, to the ON (STEDY or STROBE & STEADY) mode.
  - (a) Make sure that none of the position lights come on.

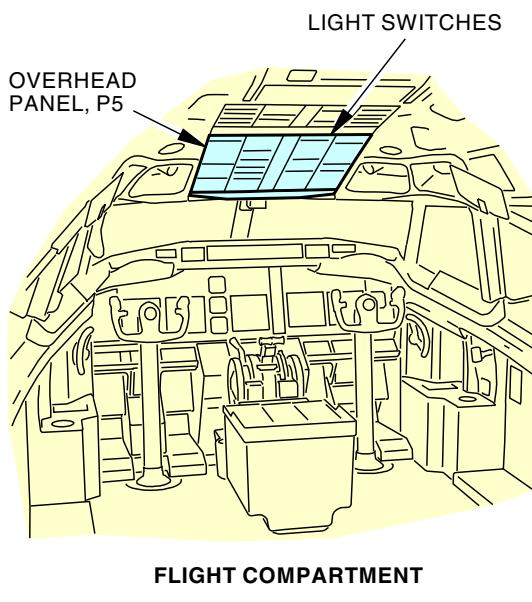
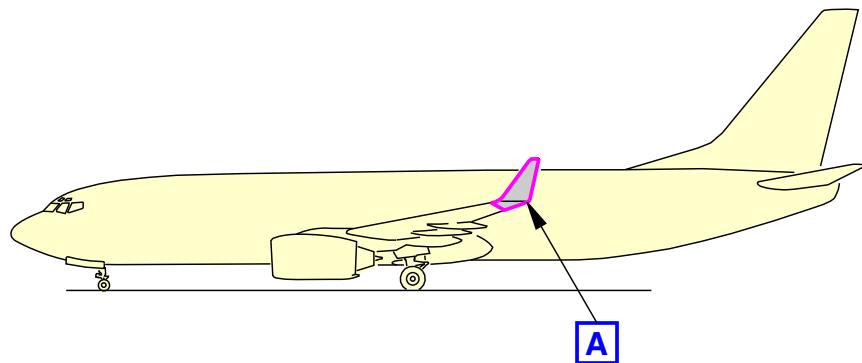
———— END OF TASK ————

EFFECTIVITY  
LOM ALL; AIRPLANES WITH WINGLETS

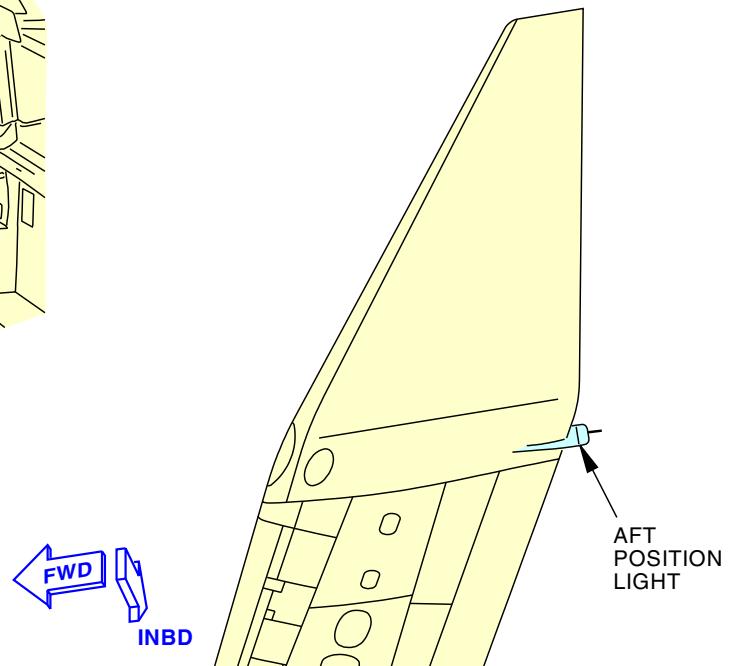
**33-43-12**



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AIRCRAFT MAINTENANCE MANUAL



FLIGHT COMPARTMENT



WING TIP  
(LEFT SIDE IS SHOWN, RIGHT SIDE IS OPPOSITE)

A

2383739 S0000544778\_V1

Aft Position Lights  
Figure 201/33-43-12-990-803

EFFECTIVITY  
LOM ALL; AIRPLANES WITH WINGLETS

33-43-12

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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AIRCRAFT MAINTENANCE MANUAL

**TASK 33-43-12-440-801**

**3. Aft Position Lights - Activation**

(Figure 201)

**A. General**

- (1) This task includes the steps to activate the aft position lights.

**B. Location Zones**

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right
526	Left Wing - Wing Tip
626	Right Wing - Wing Tip

**C. Aft Position Lights Activation**

SUBTASK 33-43-12-860-010

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

**CAPT Electrical System Panel, P18-3**

Row	Col	Number	Name
A	12	C00113	EXTERIOR LIGHTING POSITION RIGHT
A	13	C00114	EXTERIOR LIGHTING POSITION LEFT

———— END OF TASK ————

**TASK 33-43-12-960-801**

**4. Aft Position Light - Lamp Replacement**

(Figure 202)

**A. General**

- (1) This task includes the steps to replace the lamps or Light Emitting Diode (LED) modules for the aft position light.

**LOM ALL; AIRPLANES WITH CONVENTIONAL WINGLET LIGHTS**

- (2) There are two lamps in each light assembly. When it is necessary to replace one lamp, it is recommended that the second lamp be replaced at the same time.

**LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS**

- (3) There are two LED modules in each light assembly. Because of the "End of Life" feature inherent to LED lights, both modules will most likely fail around the same time. Therefore, Whenever it is necessary to replace one LED module, it is recommended to replace the second LED module at the same time.

**NOTE:** All LEDs in the LED modules must be operational per certification requirement. If a single LED is not operational, then the module intensity is not sufficient to meet the requirement.

**LOM ALL; AIRPLANES WITH WINGLETS**

**B. References**

Reference	Title
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)

EFFECTIVITY  
**LOM ALL; AIRPLANES WITH WINGLETS**

**33-43-12**



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AIRCRAFT MAINTENANCE MANUAL

(Continued)

Reference	Title
WDM 33-43-11	Wiring Diagram Manual

**C. Consumable Materials**

Reference	Description	Specification
G01306	Gloves - Lint-free	

**D. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Lamp	33-43-12-02-090	LOM 402, 404, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-460, 464-999
		33-43-12-02C-090	LOM 402, 404, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-460, 464-999
		33-43-12-05-090	LOM 406
		33-43-12-06-090	LOM 406
		33-43-12-07-090	LOM 406
		33-43-12-08-090	LOM 406
		33-43-12-09-090	LOM 406
		33-43-12-10-090	LOM 406
		33-43-12-11-090	LOM 406
		33-43-12-12-090	LOM 406
		33-43-12-13-090	LOM 406
		33-43-12-14-090	LOM 406
		33-43-12-15-090	LOM 406
6	LED module	33-43-12-02D-075	LOM 402, 404, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-460, 464-999
		33-43-12-16A-075	LOM 461-463
		33-43-12-16A-076	LOM 461-463
		33-43-12-20-230	LOM 461-463
		33-43-12-20-233	LOM 461-463

**E. Location Zones**

Zone	Area
527	Left Winglet
627	Right Winglet

**F. Aft Position Light Lamp Replacement**

SUBTASK 33-43-12-860-001

- (1) Open the applicable circuit breakers and install the safety tags:  
(WDM 33-43-11)

EFFECTIVITY  
LOM ALL; AIRPLANES WITH WINGLETS

**33-43-12**

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CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
A	12	C00113	EXTERIOR LIGHTING POSITION RIGHT
A	13	C00114	EXTERIOR LIGHTING POSITION LEFT

LOM ALL; AIRPLANES WITH CONVENTIONAL WINGLET LIGHTS

SUBTASK 33-43-12-960-001



**WARNING**

WHEN YOU REMOVE AN ELECTROSTATIC DISCHARGE SENSITIVE (ESDS) UNIT, MAKE SURE YOU PUT COVERS ON THE ELECTRICAL CONNECTORS. USE ELECTROSTATIC DISCHARGE (ESD) SAFE DUST CAPS. IF THE CONNECTORS DO NOT HAVE COVERS ON THEM, INJURY TO PERSONS AND DAMAGE TO THE COMPONENT CAN OCCUR.

- (2) Replace the lamps [1] (View B, Figure 202):

NOTE: Do not touch the new lamp with your hands. Use lint-free gloves, G01306.

- Do this task: ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.
- Loosen the fasteners [5] and remove the lens assembly [3].  
NOTE: The lanyard remains connected to the lens assembly.
- Loosen the fasteners [4] and remove the reflector assembly [2].  
NOTE: The lanyard remains connected to the reflector assembly.
- Do this task: ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802.
- Replace the lamps [1].

NOTE: There are two lamps in each light assembly. When it is necessary to replace one lamp, it is recommended that the second lamp be replaced at the same time.

- Install the reflector assembly [2].
  - Tighten the fasteners [4].
- Make sure that there is the fillet seal around the aft position fairing.  
NOTE: The fillet seal is applied.
  - If fillet seal is missed or damaged, apply the fillet seal (TASK 33-43-12-960-802).
- Install the lens assembly [3].
  - Tighten the fasteners [5] to 22 in-lb (2.49 N·m).

LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS

SUBTASK 33-43-12-960-004

- (3) Replace the LED module [6] (View B, Figure 202):

NOTE: Do not touch the new LED module with your hands. Use lint-free gloves, G01306.

- Do this task: ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.
- Loosen the fasteners [5] and remove the lens assembly [3].
- Loosen the fasteners [4] and remove the LED module [6].
- Do this task: ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802.

EFFECTIVITY  
LOM ALL; AIRPLANES WITH WINGLETS

**33-43-12**



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**AIRCRAFT MAINTENANCE MANUAL**

**LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS (Continued)**

- (e) Replace the LED module [6].

NOTE: There are two LED modules in each light assembly. When it is necessary to replace one LED module, it is recommended that the second LED module be replaced at the same time.

- (f) Install the LED module [6].

- 1) Tighten the fasteners [4].

- (g) Make sure that there is the fillet seal around the aft position fairing.

NOTE: The fillet seal is applied.

- 1) If fillet seal is missed or damaged, apply the fillet seal (TASK 33-43-12-960-802).

- (h) Install the lens assembly [3].

- 1) Tighten the fasteners [5] to 22 in-lb (2.49 N·m).

**LOM ALL; AIRPLANES WITH WINGLETS**

SUBTASK 33-43-12-860-002

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

**CAPT Electrical System Panel, P18-3**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	12	C00113	EXTERIOR LIGHTING POSITION RIGHT
A	13	C00114	EXTERIOR LIGHTING POSITION LEFT

SUBTASK 33-43-12-710-001

- (5) Do a test of the new lamps [1] or LED modules [6]:

- (a) Set the switch for the position lights, on the P5 forward overhead panel, to the ON mode.  
1) Make sure that the lamps come on.

**LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS**

NOTE: There are two LED module assemblies in each light assembly. All LEDs in the LED modules must be operational per certification requirement. If a single LED is not operational, then the module intensity is not sufficient to meet the requirement.

**LOM ALL; AIRPLANES WITH WINGLETS**

- (b) Set the switch for the position lights, on the P5 forward overhead panel, to the OFF mode.  
1) Make sure that the lamps go off.

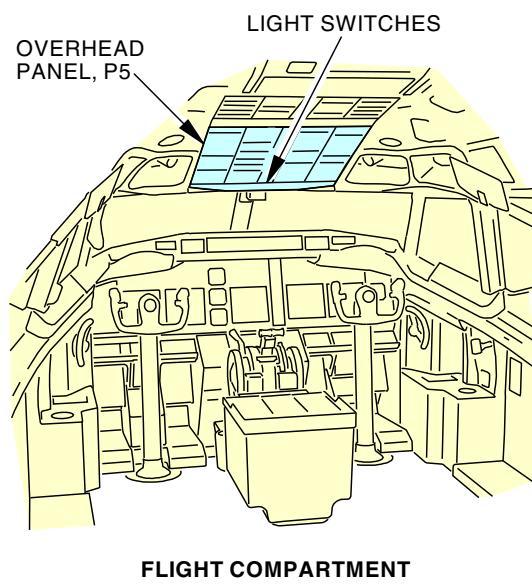
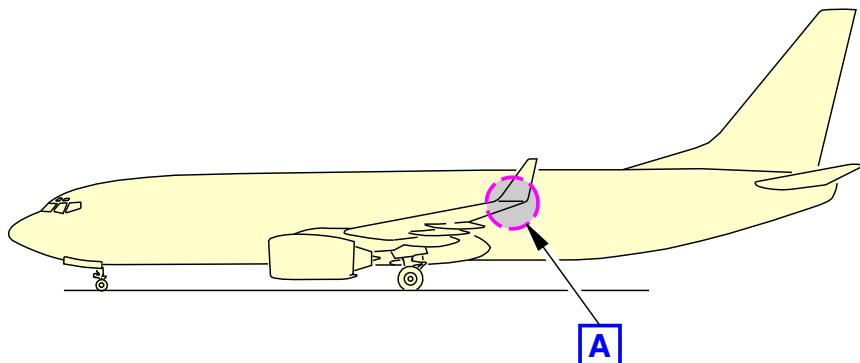
———— END OF TASK ————

EFFECTIVITY  
**LOM ALL; AIRPLANES WITH WINGLETS**

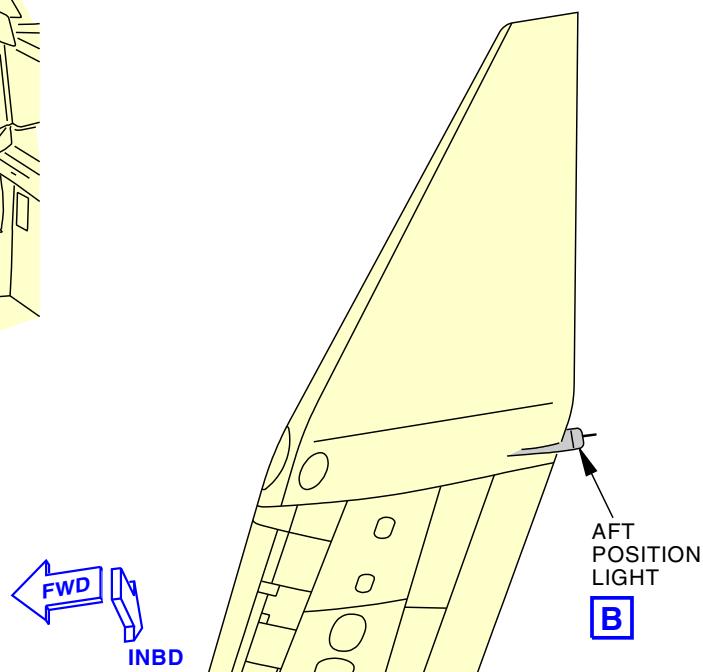
**33-43-12**



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FLIGHT COMPARTMENT



WING TIP  
(LEFT SIDE IS SHOWN, RIGHT SIDE IS OPPOSITE)



L83273 S0006576232\_V2

**Aft Position Light - Lamp Replacement**  
**Figure 202/33-43-12-990-801 (Sheet 1 of 3)**

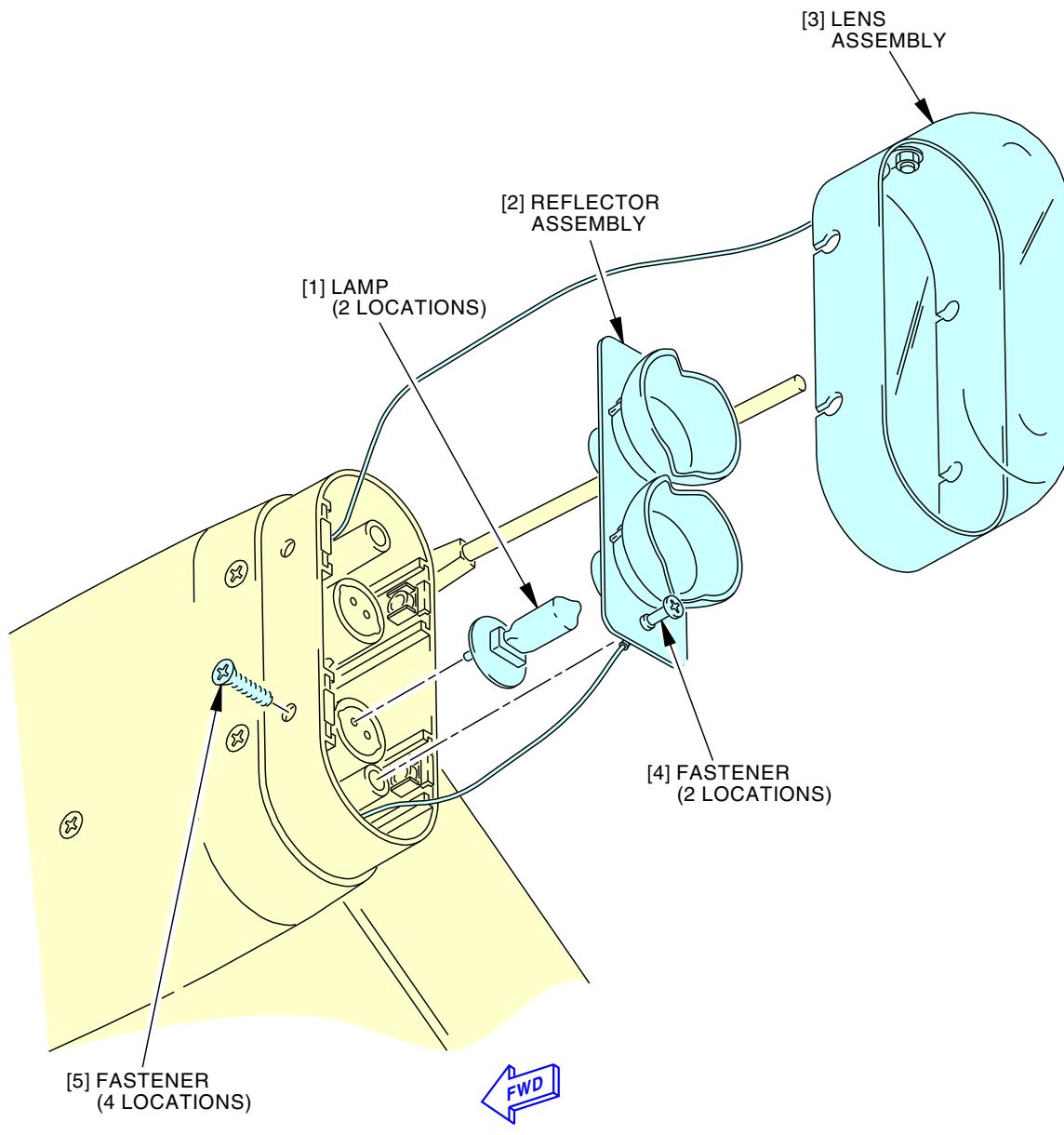
EFFECTIVITY  
LOM ALL; AIRPLANES WITH WINGLETS

**33-43-12**

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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AFT POSITION LIGHT

**B**

L99799 S0006576233\_V3

**Aft Position Light - Lamp Replacement**  
Figure 202/33-43-12-990-801 (Sheet 2 of 3)

EFFECTIVITY  
LOM ALL; AIRPLANES WITH CONVENTIONAL  
WINGLET LIGHTS

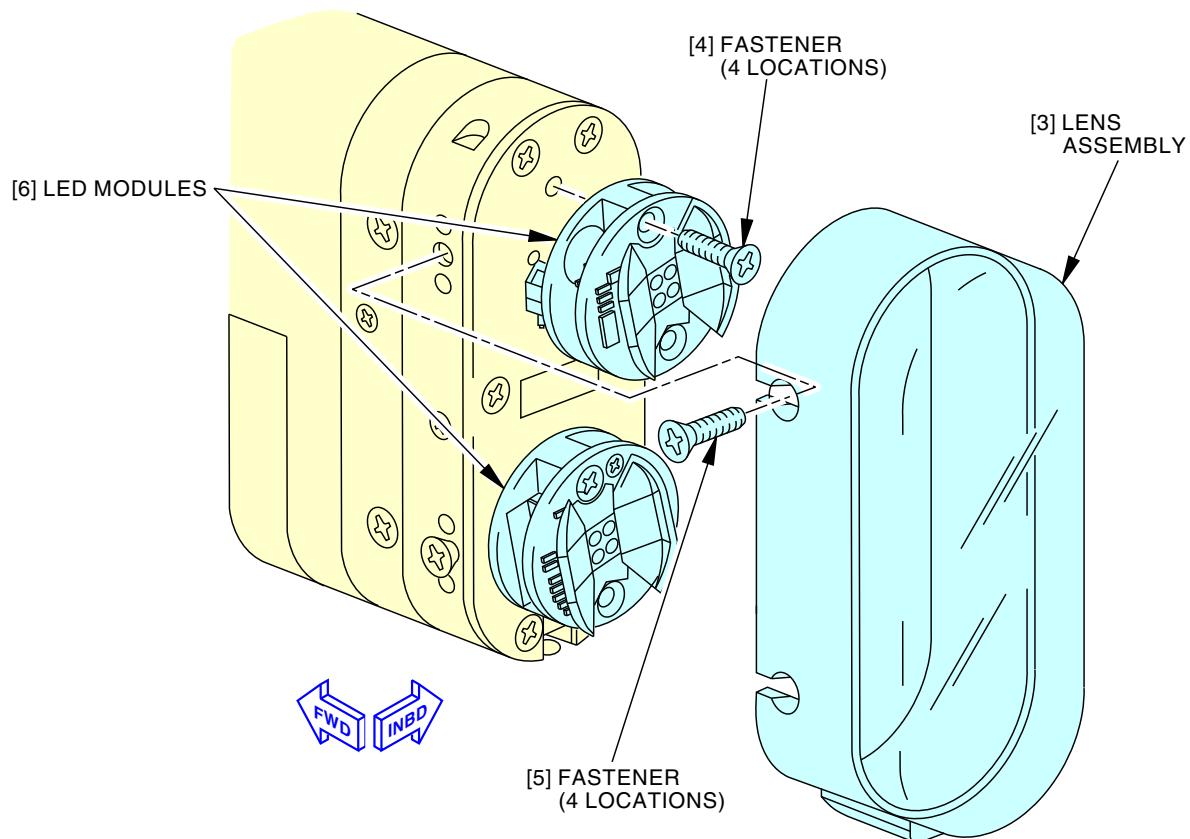
**33-43-12**

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AFT POSITION LIGHT



3015386 S0000788722\_V1

**Aft Position Light - Lamp Replacement**  
**Figure 202/33-43-12-990-801 (Sheet 3 of 3)**

EFFECTIVITY  
LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS

**33-43-12**



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**TASK 33-43-12-960-802**

**5. Aft Position Light - Light Assembly Replacement**

(Figure 203)

**A. General**

- (1) This task includes the steps to replace the light assembly for the aft position light.
- (2) There are two lamps or Light Emitting Diode (LED) modules in each light assembly.

**B. References**

Reference	Title
51-31-00-160-801	Prepare For Sealing (P/B 201)
57-21-22-000-804	Aft Position Light Fairing Removal (P/B 201)
57-21-22-400-801	Aft Position Light Fairing Installation (P/B 201)
SWPM 20-20-00	ELECTRICAL BONDING PROCESSES
WDM 33-43-11	Wiring Diagram Manual

**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
A00247	Sealant - Pressure And Environmental - Chromate Type	BMS5-95
A02315	Sealant - Low Density, Synthetic Rubber. 2 Part	BMS5-142 Type II
C00528	Compound - Corrosion Preventive, Petroleum Hot Application (Soft Film)	MIL-C-11796 Class III
G00291	Tape - Aluminum Foil, 3M 425	AMS-T-23397 / L-T-80

**E. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
22	Light assembly	33-43-12-02-050	LOM 402, 404, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-460, 464-999

EFFECTIVITY  
LOM ALL; AIRPLANES WITH WINGLETS

**33-43-12**



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

(Continued)

<b>AMM Item</b>	<b>Description</b>	<b>AIPC Reference</b>	<b>AIPC Effectivity</b>
22 (cont.)		33-43-12-02C-050	LOM 402, 404, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-460, 464-999
		33-43-12-02D-050	LOM 402, 404, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-460, 464-999
		33-43-12-02D-055	LOM 402, 404, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-460, 464-999
		33-43-12-05-050	LOM 406
		33-43-12-06-050	LOM 406
		33-43-12-07-050	LOM 406
		33-43-12-08-050	LOM 406
		33-43-12-08-053	LOM 406
		33-43-12-09-050	LOM 406
		33-43-12-10-050	LOM 406
		33-43-12-11-050	LOM 406
		33-43-12-12-050	LOM 406
		33-43-12-13-050	LOM 406
		33-43-12-14-050	LOM 406
		33-43-12-15-050	LOM 406
		33-43-12-16A-050	LOM 461-463
		33-43-12-16A-055	LOM 461-463
		33-43-12-20-205	LOM 461-463
		33-43-12-20-210	LOM 461-463

#### F. Location Zones

<b>Zone</b>	<b>Area</b>
527	Left Winglet
627	Right Winglet

#### G. Light Assembly Replacement

SUBTASK 33-43-12-860-005

- (1) Open the applicable circuit breakers and install the safety tags:  
(WDM 33-43-11)

##### CAPT Electrical System Panel, P18-3

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
A	12	C00113	EXTERIOR LIGHTING POSITION RIGHT
A	13	C00114	EXTERIOR LIGHTING POSITION LEFT

SUBTASK 33-43-12-010-001

- (2) Remove the lower canoe fairing for the aft position light.

EFFECTIVITY  
LOM ALL; AIRPLANES WITH WINGLETS

**33-43-12**



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

- (a) Do this task: Aft Position Light Fairing Removal, TASK 57-21-22-000-804.

SUBTASK 33-43-12-960-002

- (3) Replace the light assembly [22]:

- (a) Disconnect the electrical connector [21].

NOTE: The electrical connector is in the fairing and the wire bundle is held in position with clamps.

- (b) Remove the bolts [26].

- (c) Pull out the light assembly [22].

- (d) Remove the screw [25] and washers [24] on the jumper [23].

- (e) Disconnect the jumper [23].

- (f) Replace the light assembly [22].

- 1) Make sure that the lamps are installed in the new light assembly [22].

- (g) Connect the jumper [23] to the light assembly [22].

- (h) Install the washers [24] and screw [25].

- 1) Apply a fillet seal of sealant, A00247, between the jumper [23], washers [24], and screw [25].

- (i) Prepare the light assembly housing and aft position fairing surfaces for sealant application (TASK 51-31-00-160-801).

**LOM ALL; AIRPLANES WITH CONVENTIONAL WINGLET LIGHTS**

- (j) Apply sealant, A02315, at the seam between the light assembly [22] and aft position fairing.

NOTE: It is possible to defer the application of the sealant of the aft position light assembly replacement to prevent a flight delay. The deferral of the application of sealant must not exceed a maximum of eight weeks (SL 20-043).

- 1) Keep sealant, A02315, away from the lens assembly [3].

- a) If it is necessary to send the airplane before the sealant is fully cured, do these steps:

<1> Allow sealant, A02315, to cure as long as possible before applying 3M 425 Aluminum Foil Tape, G00291.

<2> Install 3M 425 Aluminum Foil Tape, G00291, on the sealant.

<3> Remove 3M 425 Aluminum Foil Tape, G00291, when the sealant is fully cured.

<4> Carefully inspect sealant, A02315, to make sure that the sealant is adhered to the edges and that it has cured properly.

<5> If it is necessary, replace sealant.

- 2) Removal of the lens assembly [3] is permitted.

**LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS**

- (k) Apply sealant, A02315, or sealant, A00247, at the seam between the light assembly [22] and aft position fairing.

NOTE: It is possible to defer the application of the sealant of the aft position light assembly replacement to prevent a flight delay. The deferral of the application of sealant must not exceed a maximum of eight weeks (SL 20-043).

EFFECTIVITY  
**LOM ALL; AIRPLANES WITH WINGLETS**

**33-43-12**



**737-600/700/800/900**  
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**LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS (Continued)**

- 1) Keep sealant, A02315, or sealant, A00247, away from the lens assembly [3].
  - a) If it is necessary to send the airplane before the sealant is fully cured, do these steps:
    - <1> Allow sealant, A02315, or sealant, A00247, to cure as long as possible before applying 3M 425 Aluminum Foil Tape, G00291.
    - <2> Install 3M 425 Aluminum Foil Tape, G00291, on the sealant.
    - <3> Remove 3M 425 Aluminum Foil Tape, G00291, when the sealant is fully cured.
    - <4> Carefully inspect sealant, A02315, or sealant, A00247, to make sure that the sealant is adhered to the edges and that it is has cured properly.
    - <5> If it is necessary, replace sealant.
- 2) Removal of the lens assembly [3] is permitted.

**LOM ALL; AIRPLANES WITH WINGLETS**

- (l) Put the light assembly [22] in the aft position fairing.
- (m) Measure the electric bonding resistance between the light assembly [22] and airplane structure (SWPM 20-20-00):
  - 1) Use a non-intrinsically safe bonding meter, COM-614.
  - 2) Make sure that the resistance is less than 0.0025 ohms (2.5 milliohms).
- (n) Install the bolts [26] with corrosion-preventative compound, C00528.
  - 1) Tighten the bolts [26] to 15 in-lb (1.7 N·m) - 18 in-lb (2 N·m) in a crossing pattern from top to bottom.
- (o) If the lens assembly [3] was removed, install it.
- (p) Make sure that the electrical connections and lamp terminals are clean for good electrical contact.
- (q) Connect the electrical connector [21].

**SUBTASK 33-43-12-410-001**

- (4) Install the lower canoe fairing for the aft position light.
  - (a) Do this task: Aft Position Light Fairing Installation, TASK 57-21-22-400-801.

**SUBTASK 33-43-12-860-006**

- (5) Remove the safety tags and close the applicable circuit breakers:

**CAPT Electrical System Panel, P18-3**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	12	C00113	EXTERIOR LIGHTING POSITION RIGHT
A	13	C00114	EXTERIOR LIGHTING POSITION LEFT

**SUBTASK 33-43-12-710-002**

- (6) Do a test of the new light assembly [22]:
  - (a) Set the switch for the position lights, on the P5 forward overhead panel, to the ON mode.
    - 1) Make sure that the light comes on.

EFFECTIVITY  
**LOM ALL; AIRPLANES WITH WINGLETS**

**33-43-12**



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**LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS**

NOTE: There are two LED module assemblies in each light assembly. All LEDs in the LED modules must be operational per certification requirement. If a single LED is not operational, then the module intensity is not sufficient to meet the requirement.

**LOM ALL; AIRPLANES WITH WINGLETS**

- (b) Set the switch for the position lights, on the P5 forward overhead panel, to the OFF mode.
  - 1) Make sure that the light goes off.

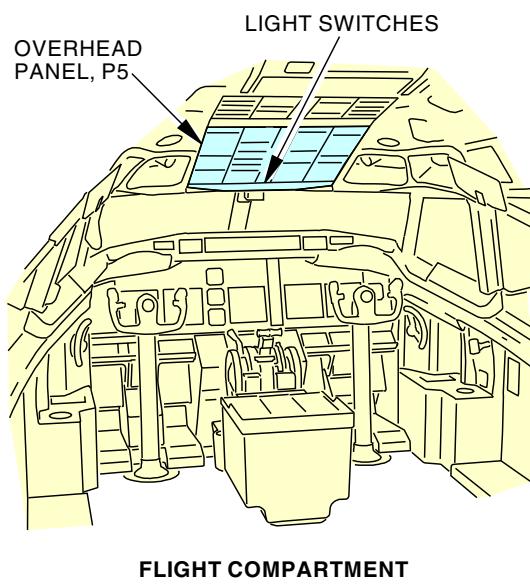
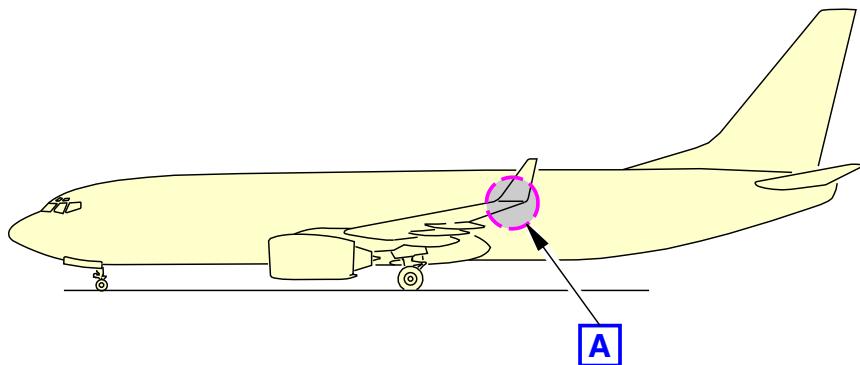
———— END OF TASK ——

EFFECTIVITY  
**LOM ALL; AIRPLANES WITH WINGLETS**

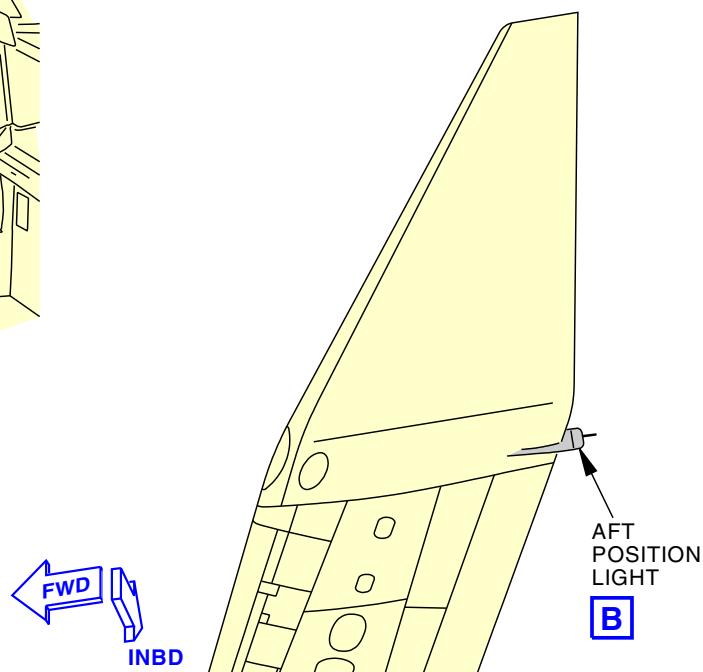
**33-43-12**



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AIRCRAFT MAINTENANCE MANUAL



FLIGHT COMPARTMENT



(LEFT SIDE IS SHOWN, RIGHT SIDE IS OPPOSITE)



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Aft Position Light - Light Assembly Replacement  
Figure 203/33-43-12-990-802 (Sheet 1 of 3)

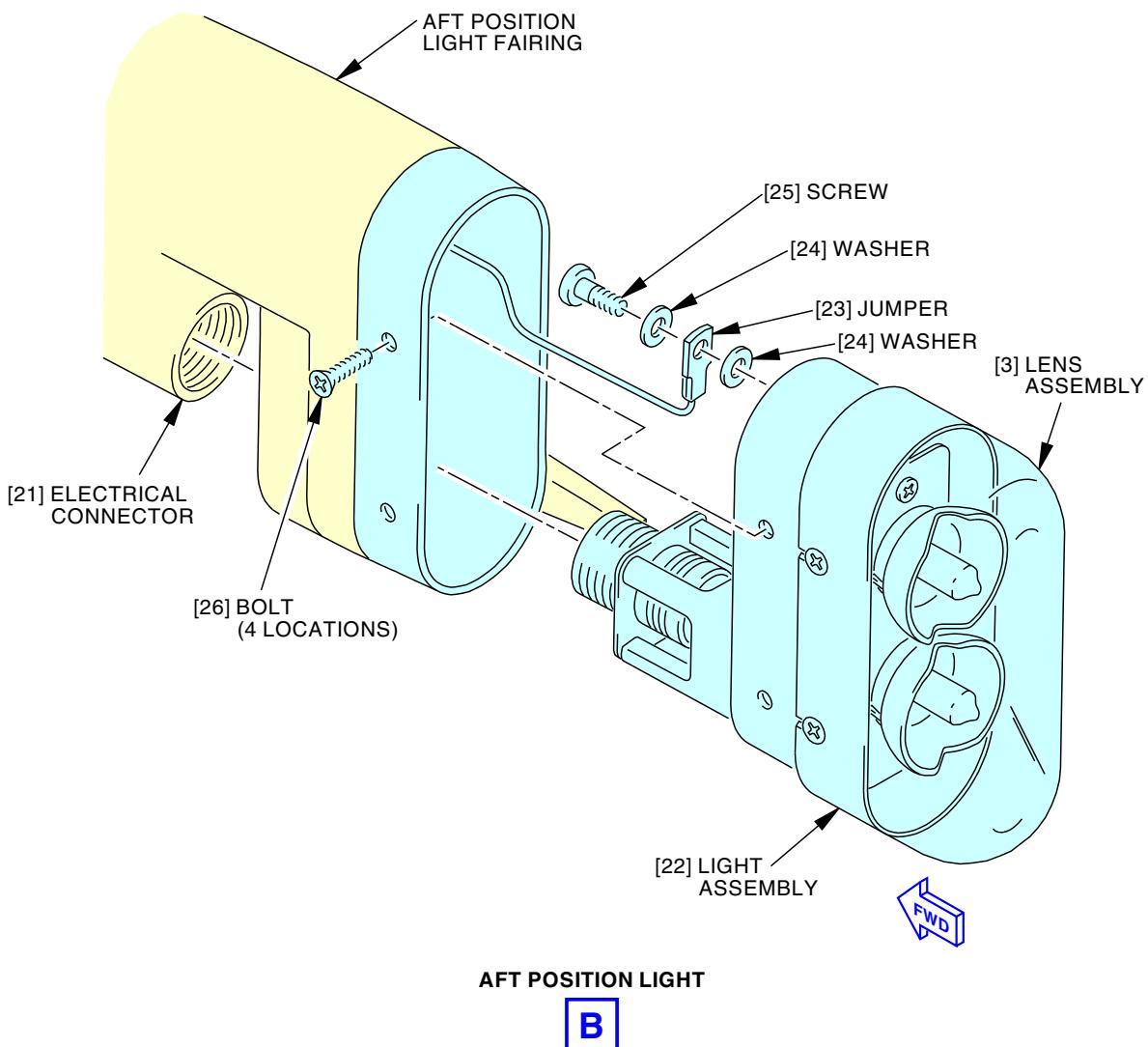
EFFECTIVITY  
LOM ALL; AIRPLANES WITH WINGLETS

**33-43-12**

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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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**Aft Position Light - Light Assembly Replacement**  
**Figure 203/33-43-12-990-802 (Sheet 2 of 3)**

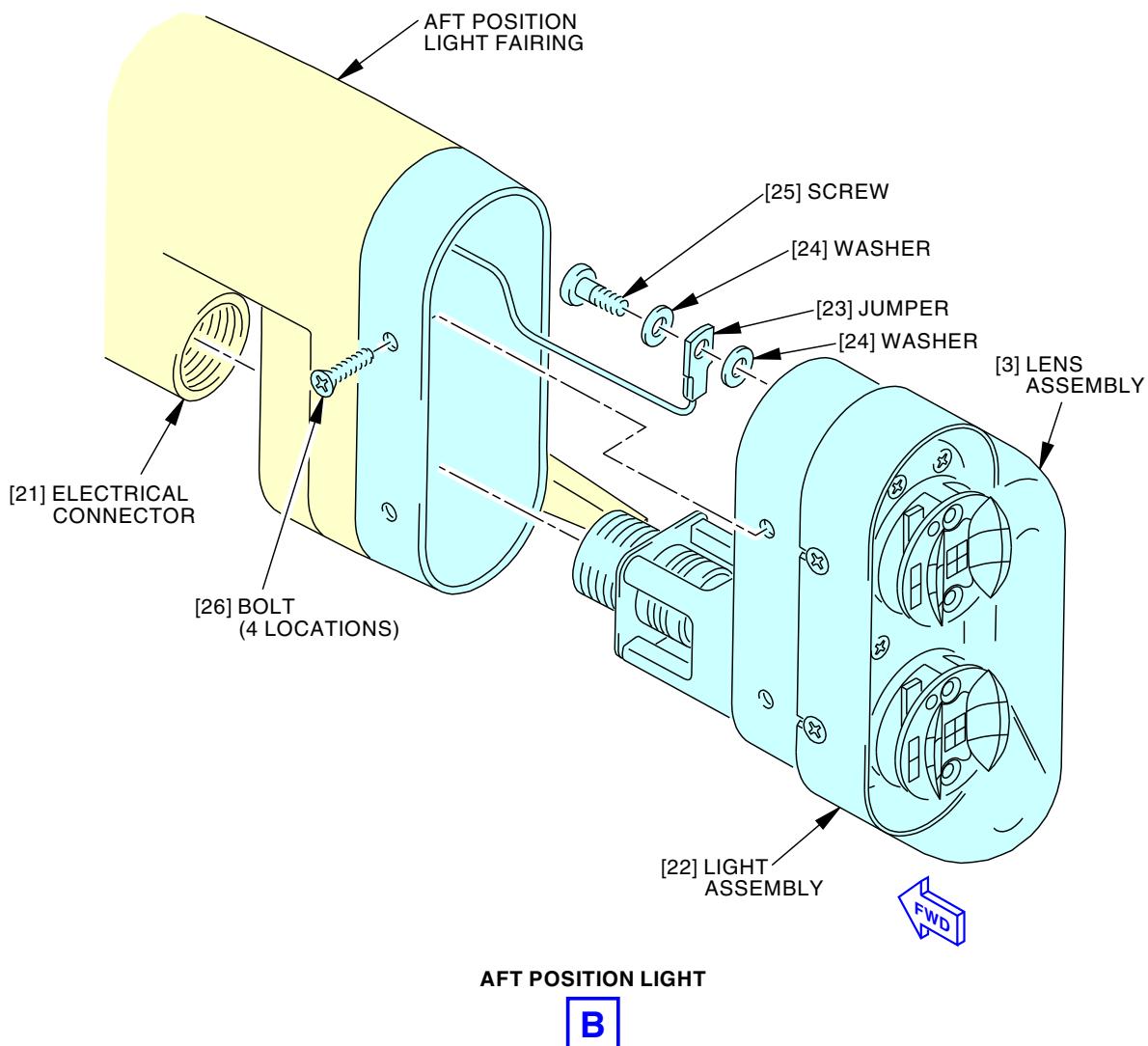
EFFECTIVITY  
LOM ALL; AIRPLANES WITH CONVENTIONAL  
WINGLET LIGHTS

**33-43-12**

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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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**Aft Position Light - Light Assembly Replacement**  
Figure 203/33-43-12-990-802 (Sheet 3 of 3)EFFECTIVITY  
LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS**33-43-12**

D633A101-LOM





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

ANTI-COLLISION LIGHTS - MAINTENANCE PRACTICES

**1. General**

- A. This procedure has these tasks:
- (1) Anti-Collision Lights Deactivation
  - (2) Anti-Collision Lights Activation

**TASK 33-44-00-040-801**

**2. Anti-Collision Lights - Deactivation**

(Figure 201)

**A. General**

- (1) This procedure removes electrical power to the Anti-Collision lights.

**B. Location Zones**

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

**C. Procedure**

SUBTASK 33-44-00-860-003

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

**CAPT Electrical System Panel, P18-3**

Row	Col	Number	Name
B	12	C00111	EXTERIOR LIGHTING ANTI COLLISION RED
B	13	C00115	EXT LIGHTING ANTI COLLISION WHITE

**D. Anti-Collision Lights - Tryout**

SUBTASK 33-44-00-211-001

**NOTE:** This tryout is to make sure the Anti-Collision lights is in a zero energy state.

- (1) Do the following steps to make sure the power has been removed:
  - (a) At the overhead panel, P5, set the anti collision switch to the ON Position
  - (b) Make sure the anti collision lights are off.

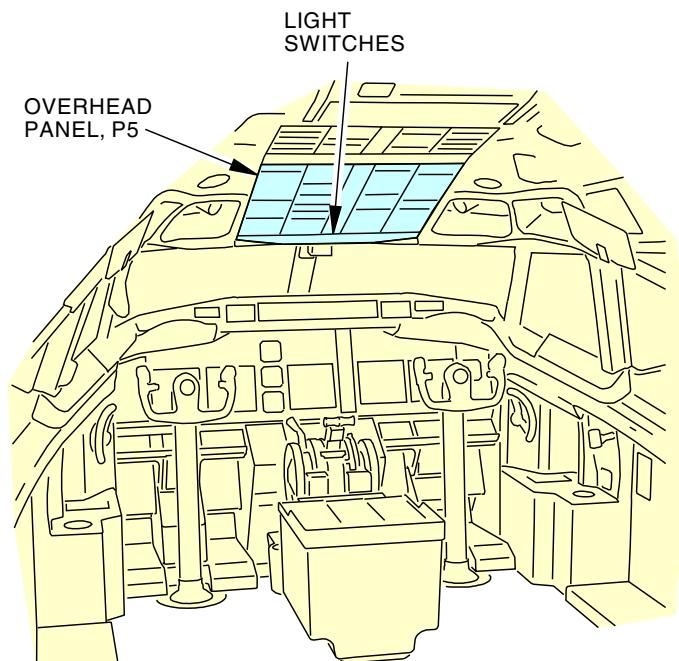
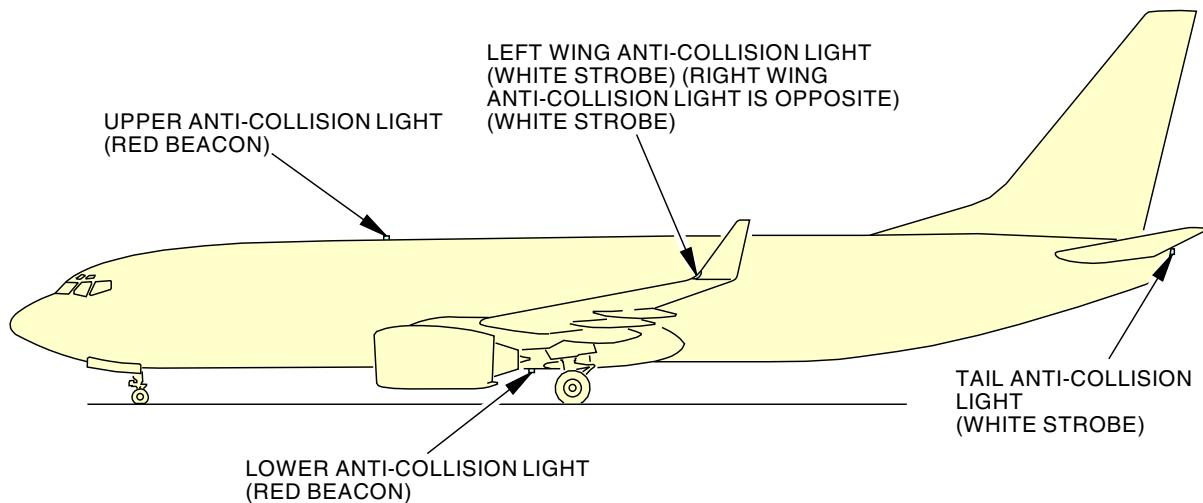
———— END OF TASK ————

EFFECTIVITY
LOM ALL

**33-44-00**



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



FLIGHT COMPARTMENT

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**Anti-Collision Lights**  
Figure 201/33-44-00-990-802

EFFECTIVITY  
LOM ALL

**33-44-00**

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details



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AIRCRAFT MAINTENANCE MANUAL

**TASK 33-44-00-440-801**

**3. Anti-Collision Lights - Activation**

(Figure 201)

**A. General**

- (1) This procedure adds electrical power to the Anti-Collision lights.

**B. Location Zones**

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

**C. Procedure**

SUBTASK 33-44-00-860-005

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

**CAPT Electrical System Panel, P18-3**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
B	12	C00111	EXTERIOR LIGHTING ANTI COLLISION RED
B	13	C00115	EXT LIGHTING ANTI COLLISION WHITE

———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-44-00**





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

ANTI-COLLISION LIGHTS - ADJUSTMENT/TEST

**1. General**

- A. This procedure contains scheduled maintenance task data.
- B. This procedure has one task:
  - (1) Anti-Collision Lights - Operational Test

**TASK 33-44-00-710-801**

**2. Anti-Collision Lights - Operational Test**

(Figure 501)

**A. General**

- (1) This test makes sure the anti-collision lights operate.

**B. References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
33-44-13-960-805	Wing Anti-Collision Light - LED Module Replacement (P/B 201)
WDM 33-44-11	Wiring Diagram Manual
WDM 33-44-12	Wiring Diagram Manual

**C. Location Zones**

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

**D. Procedure**

SUBTASK 33-44-00-860-001

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

SUBTASK 33-44-00-710-001



DO NOT LET THE LIGHTS FLASH DIRECTLY IN YOUR EYES. THE INTENSITY OF THE LIGHT CAN TEMPORARILY CAUSE INJURIES TO YOUR EYES.

- (2) Do a test of the upper and lower anti-collision lights (WDM 33-44-11):

- (a) At the overhead panel, P5, set the switch for the upper and lower anti-collision lights to the on mode.

- 1) Make sure the red anti-collision lights on the top and bottom of the fuselage flash 40 to 45 times a minute.

NOTE: Let each light flash for 20 seconds to stabilize the system. If no misfire occurs, and the light flashes 40 to 45 times a minute, the system operates correctly. If a misfire occurs before a system becomes stable, let the light flash for 60 more seconds. There must be no other misfires after the system becomes stable.

- (b) Set the switch to the off mode.
    - 1) Make sure lights go off.

EFFECTIVITY  
LOM ALL

**33-44-00**



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

SUBTASK 33-44-00-710-002



**WARNING** DO NOT LET THE LIGHTS FLASH DIRECTLY IN YOUR EYES. THE INTENSITY OF THE LIGHT CAN TEMPORARILY CAUSE INJURIES TO YOUR EYES.

- (3) Do a test of the wing and tail anti-collision lights (WDM 33-44-12):
  - (a) At the overhead panel, P5, set the switch for wing and tail anti-collision lights to the on mode.
    - 1) Make sure the white anti-collision lights on each wing flash 40 to 45 times a minute.  
NOTE: Let each light flash for 20 seconds to stabilize the system. If no misfire occurs, and the light flashes 40 to 45 times a minute, the system operates correctly.  
If a misfire occurs before a system becomes stable, let the light flash for 60 more seconds. There must be no other misfires after the system becomes stable.
    - 2) When the anti-collision lights reach their LED module's calculated end of life, as soon as power is applied, the light will turn on for 5 seconds, and then turn off and remain off even with power applied. This function will repeat every time the power is reapplied. Replace the anti-collision light LED modules when this end of life flashing sequence is encountered.
      - a) Refer to Wing Anti-Collision Light - LED Module Replacement, TASK 33-44-13-960-805.
      - 3) Make sure the white anti-collision light on the tail flashes 60 times a minute.
    - (b) Set the switch to the Off mode.
      - 1) Make sure lights go off.

SUBTASK 33-44-00-860-002

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

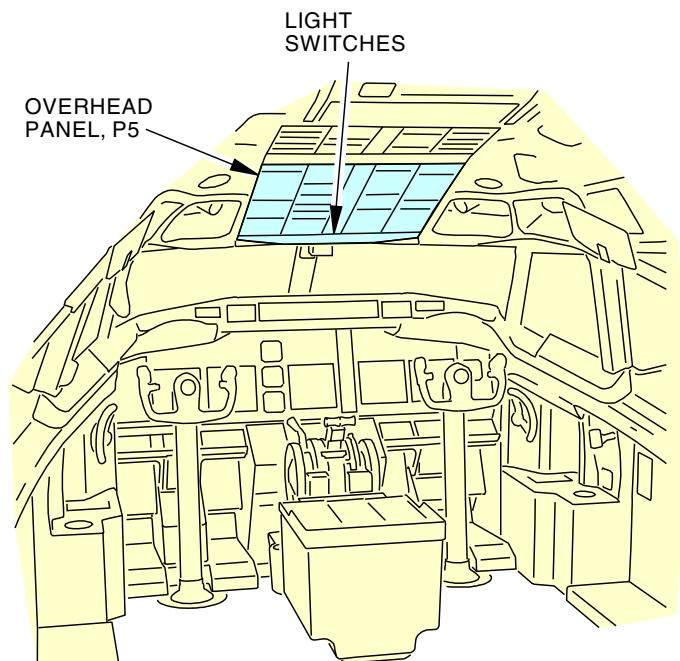
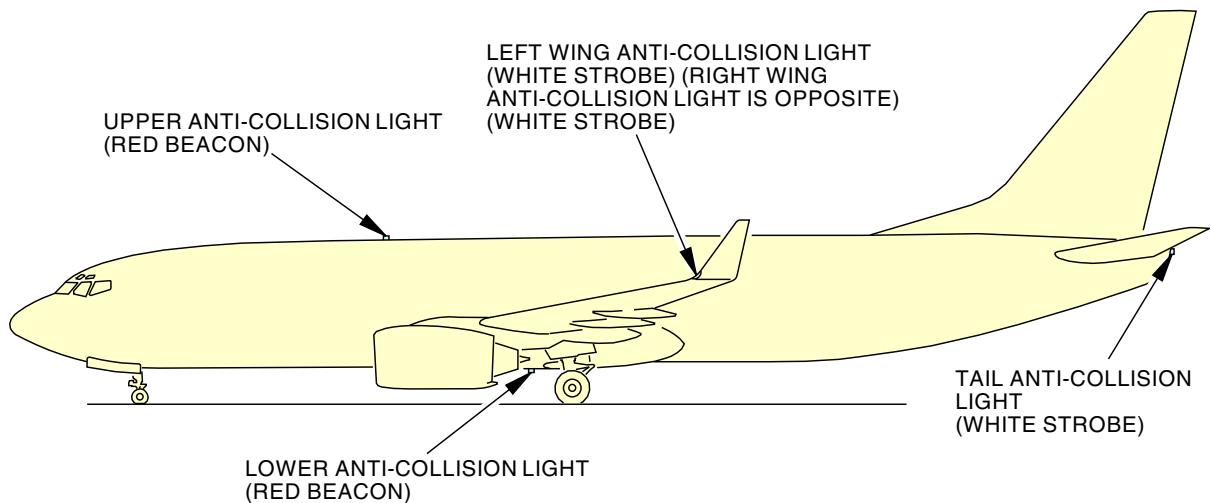
———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-44-00**



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



FLIGHT COMPARTMENT

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**Anti-Collision Lights - Test**  
Figure 501/33-44-00-990-801

EFFECTIVITY  
LOM ALL

**33-44-00**

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ECCN 9E991 BOEING PROPRIETARY - See title page for details





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

UPPER ANTI-COLLISION LIGHT - MAINTENANCE PRACTICES

**1. General**

- A. This procedure has these tasks:
- (1) Upper Anti-Collision Light - Lamp Assembly Replacement
  - (2) Upper Anti-Collision Light - Light Assembly Replacement
  - (3) Upper Anti-Collision Light - Lens Replacement
  - (4) Upper Anti-Collision Light - Power Supply Replacement
  - (5) Upper Anti-Collision Light - Adapter Plate Replacement

**TASK 33-44-01-960-801**

**2. Upper Anti-Collision Light - Lamp Assembly Replacement**

(Figure 201)

**A. General**

- (1) The lamp assembly in this procedure is also referred to as a reflector assembly by the vendor.
- (2) The lamp assembly can be replaced from inside the airplane or from outside the airplane.

**B. References**

Reference	Title
21-23-01-000-801	Overhead Distribution Duct Removal (P/B 201)
21-23-01-400-801	Overhead Distribution Duct Installation (P/B 201)
25-21-45-000-801	Ceiling Panel - Removal (P/B 401)
25-21-45-000-803-001	Main Ceiling Panel - Removal (P/B 401)
25-21-45-400-801	Ceiling Panel - Installation (P/B 401)
25-21-45-400-803-001	Main Ceiling Panel - Installation (P/B 401)
33-44-00-710-801	Anti-Collision Lights - Operational Test (P/B 501)
WDM 33-44-11	Wiring Diagram Manual

**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

**D. Consumable Materials**

Reference	Description	Specification
C00528	Compound - Corrosion Preventive, Petroleum Hot Application (Soft Film)	MIL-C-11796 Class III

EFFECTIVITY  
LOM ALL

**33-44-01**



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(Continued)

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

**E. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
3	Lamp assembly	33-44-01-01A-035	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426
		33-44-01-01A-080	LOM 427-434, 437-447, 450-999
		33-44-01-01A-183	LOM 427-434, 437-447, 450-999
5	Light assembly	33-44-01-01A-005	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426
		33-44-01-01A-222	LOM 427-434, 437-447, 450-999

**F. Location Zones**

Zone	Area
230	Subzone - Passenger Compartment - Body Station 360.00 to 663.75

**G. Upper Anti-Collision Light Lamp Assembly Replacement**

SUBTASK 33-44-01-860-001

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

**CAPT Electrical System Panel, P18-3**

Row	Col	Number	Name
B	12	C00111	EXTERIOR LIGHTING ANTI COLLISION RED

SUBTASK 33-44-01-000-001-001

- (2) To replace the lamp assembly [3] from inside the airplane do the following steps:

- (a) Do one of the steps below to get access to the upper anti-collision light:

NOTE: The overhead distribution duct is installed below and near the upper anti-collision light, which makes light removal difficult.

- 1) To remove the ceiling panel only, do this task: Ceiling Panel - Removal, TASK 25-21-45-000-801 or Main Ceiling Panel - Removal, TASK 25-21-45-000-803-001.
- 2) To remove the ceiling panel and the section of the duct below the light, do this task: Overhead Distribution Duct Removal, TASK 21-23-01-000-801.

- (b) Do these steps to replace the lamp assembly [3] (WDM 33-44-11):

NOTE: Do not discard the lamp assembly. Refer to the vendor manual for possible repairs. Do the repairs in a shop.

- 1) Remove the bolts [6] on the bottom of the light assembly [5].
- 2) Turn the light assembly [5] clockwise and pull it down from the adapter plate [1].

EFFECTIVITY
LOM ALL



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

- 3) Carefully loosen the fastener [2] on top of the lamp assembly [3].
  - 4) Replace the lamp assembly [3].
  - 5) Tighten the fastener [2].
  - 6) If the lens [41] is dirty, clean it with a clean, soft, dry cotton wiper, G00034.
  - 7) Put the light assembly [5] in the adapter plate [1] and turn it counterclockwise.
  - 8) Install the bolts [6].
  - 9) With the electrical bonding intrinsically safe approved bonding meter, COM-1550, make sure the resistance between the light assembly [5] and the adapter plate [1] measures no more than 0.0015 ohm (1.5 milliohms).
- (c) Install the items that were removed for access to the light:
- 1) If the ceiling panel only was removed, do this task: Ceiling Panel - Installation, TASK 25-21-45-400-801 or Main Ceiling Panel - Installation, TASK 25-21-45-400-803-001.
  - 2) If the ceiling panel and the section of the duct below the light were removed, do this task: Overhead Distribution Duct Installation, TASK 21-23-01-400-801.

**SUBTASK 33-44-01-000-002**

- (3) To replace the lamp assembly [3] from outside the airplane do the following steps:
- (a) For access to the lens [41], go out of the airplane, on top of the fuselage.
  - (b) Do these steps to remove the lens [41]:
    - 1) Loosen the screws [42] and lift off the lens [41].
  - (c) Do these steps to replace the lamp assembly [3] (WDM 33-44-11):  
**NOTE:** Do not discard the lamp assembly. Refer to the vendor manual for possible repairs. Do the repairs in a shop.
    - 1) Loosen the fastener [2] on top of the lamp assembly [3].
    - 2) Replace the lamp assembly [3].
    - 3) Tighten the fastener [2].
    - 4) If the lens [41] is dirty, clean it with a clean, soft, dry cotton wiper, G00034.
    - 5) Put on the lens [41] and tighten the screws [42] with the corrosion-preventive compound, C00528.

**SUBTASK 33-44-01-860-002**

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

**CAPT Electrical System Panel, P18-3**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
B	12	C00111	EXTERIOR LIGHTING ANTI COLLISION RED

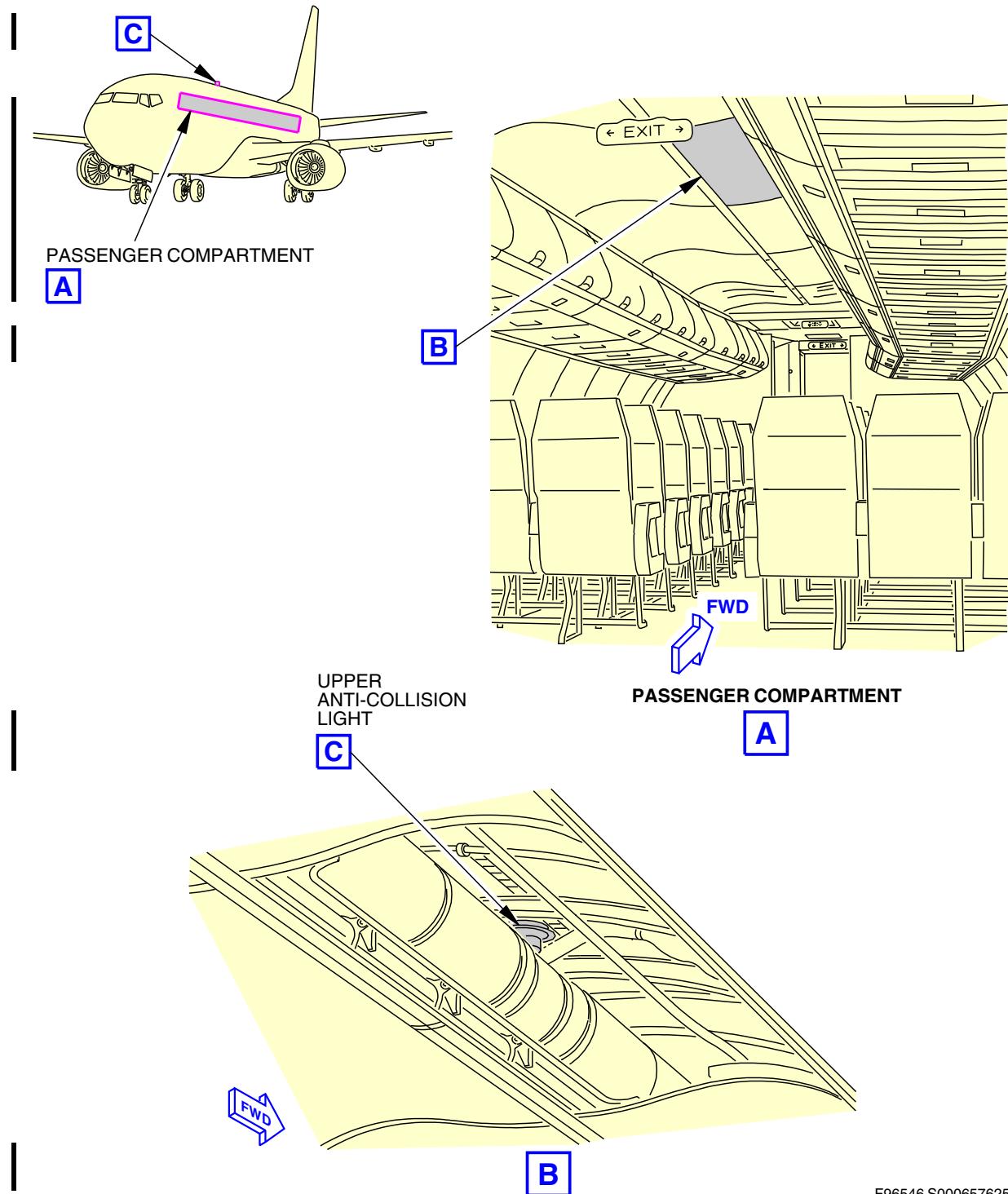
**SUBTASK 33-44-01-710-001**

- (5) Do a test of the new lamp assembly [3].
- (a) Set the switch for the upper anti-collision light, at the P5 overhead panel, to the on mode.
    - 1) Make sure that the light flashes (TASK 33-44-00-710-801).
  - (b) Set the switch to the off mode.
    - 1) Make sure that the light goes off.

— END OF TASK —

EFFECTIVITY  
LOM ALL

**33-44-01**



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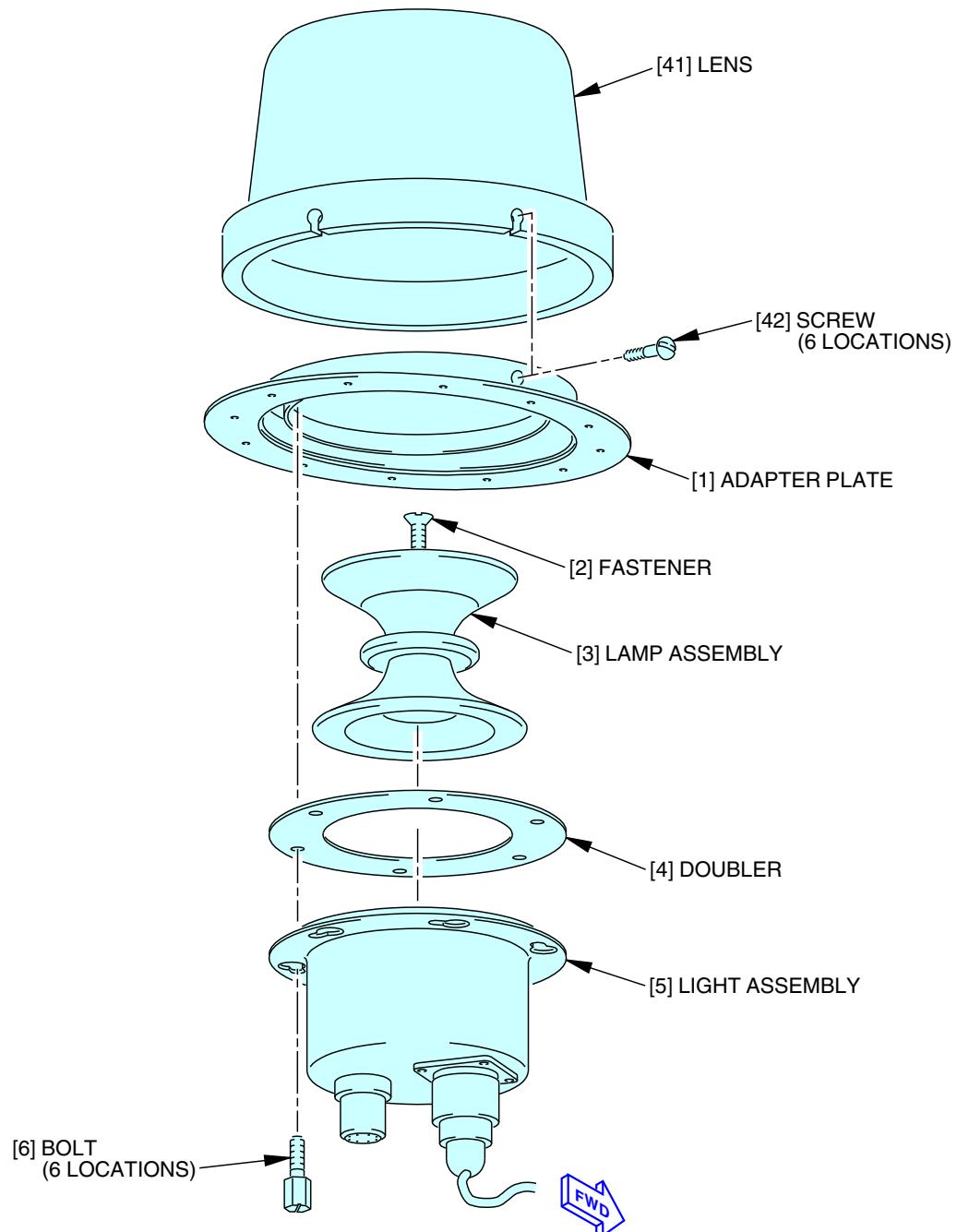
**Upper Anti-Collision Light - Lamp Assembly Replacement**  
**Figure 201/33-44-01-990-801 (Sheet 1 of 3)**

 EFFECTIVITY  
 LOM ALL

**33-44-01**

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**BOEING**  
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UPPER ANTI-COLLISION LIGHT

C

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Upper Anti-Collision Light - Lamp Assembly Replacement  
Figure 201/33-44-01-990-801 (Sheet 2 of 3)

EFFECTIVITY  
LOM ALL

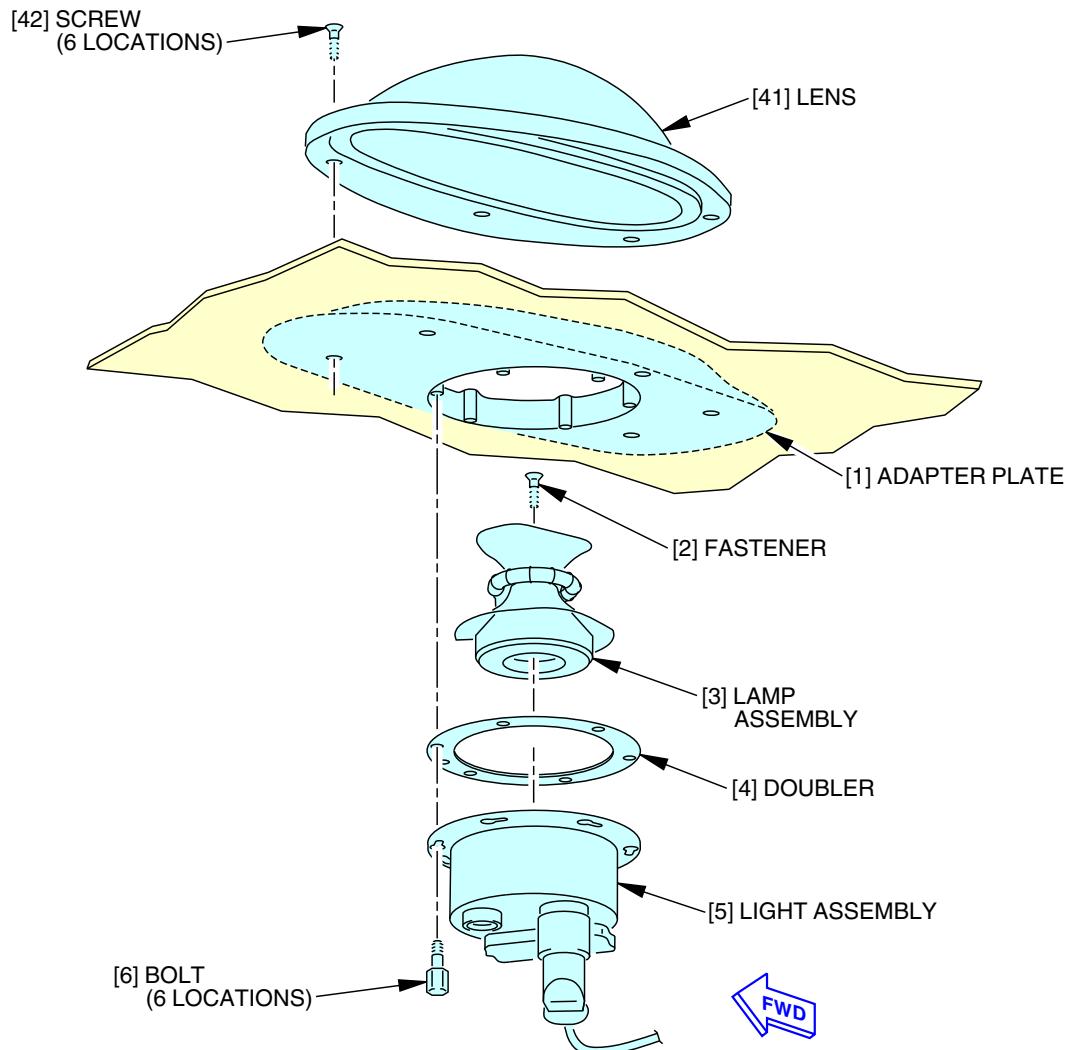
**33-44-01**

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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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**BOEING**  
**737-600/700/800/900**  
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**UPPER ANTI-COLLISION LIGHT**

**C**

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**Upper Anti-Collision Light - Lamp Assembly Replacement**  
**Figure 201/33-44-01-990-801 (Sheet 3 of 3)**

EFFECTIVITY  
**LOM 427-434, 437-447, 450-999**

**33-44-01**



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**TASK 33-44-01-960-802**

**3. Upper Anti-Collision Light - Light Assembly Replacement**

(Figure 202)

**A. References**

Reference	Title
21-23-01-000-801	Overhead Distribution Duct Removal (P/B 201)
21-23-01-400-801	Overhead Distribution Duct Installation (P/B 201)
25-21-45-000-801	Ceiling Panel - Removal (P/B 401)
25-21-45-000-803-001	Main Ceiling Panel - Removal (P/B 401)
25-21-45-400-801	Ceiling Panel - Installation (P/B 401)
25-21-45-400-803-001	Main Ceiling Panel - Installation (P/B 401)
33-44-00-710-801	Anti-Collision Lights - Operational Test (P/B 501)
33-51-01-960-802	Exit Sign Light Assembly Replacement (P/B 201)
WDM 33-44-11	Wiring Diagram Manual

**B. Tools/Equipment**

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

Reference	Description
COM-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
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
230	Subzone - Passenger Compartment - Body Station 360.00 to 663.75

**E. Upper Anti-Collision Light Assembly Replacement**

SUBTASK 33-44-01-860-005

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

**CAPT Electrical System Panel, P18-3**

Row	Col	Number	Name
B	12	C00111	EXTERIOR LIGHTING ANTI COLLISION RED



**33-44-01**



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SUBTASK 33-44-01-010-002

- (2) Do one of the steps below to get access to the upper anti-collision light:

NOTE: The overhead distribution duct is installed below and near the upper anti-collision light, which makes light removal difficult.

- (a) To remove the ceiling panel only, do this task: Ceiling Panel - Removal, TASK 25-21-45-000-801 or Main Ceiling Panel - Removal, TASK 25-21-45-000-803-001.
- (b) To remove the ceiling panel and the section of the duct below the light, do this task: Overhead Distribution Duct Removal, TASK 21-23-01-000-801.
- (c) If necessary, remove the exit sign, do this task: Exit Sign Light Assembly Replacement, TASK 33-51-01-960-802.

SUBTASK 33-44-01-960-002

- (3) Do these steps to replace the light assembly [5] (WDM 33-44-11):

NOTE: Do not discard the light assembly. Refer to the vendor manual for possible repairs. Do the repairs in a shop.

- (a) Disconnect the electrical connector [21].
- (b) Remove the bolts [6] on the bottom of the light assembly [5].
- (c) Turn the light assembly [5] clockwise and pull it down from the adapter plate [1].
- (d) Replace the light assembly [5].
- (e) If the lens [41] is dirty, clean it with a clean, soft, dry cotton wiper, G00034.
- (f) Put the light assembly [5] in the adapter plate [1] and turn it counterclockwise.
- (g) Install the bolts [6].
- (h) Connect the electrical connector [21].
- (i) With the electrical bonding intrinsically safe approved bonding meter, COM-1550, make sure that the resistance between the light assembly [5] and the adapter plate [1] measures no more than 0.0015 ohm (1.5 milliohms).

SUBTASK 33-44-01-410-002

- (4) Install the items that were removed for access to the light:

- (a) If the ceiling panel only was removed, do this task: Ceiling Panel - Installation, TASK 25-21-45-400-801 or Main Ceiling Panel - Installation, TASK 25-21-45-400-803-001.
- (b) If the ceiling panel and the section of the duct below the light were removed, do this task: Overhead Distribution Duct Installation, TASK 21-23-01-400-801.

SUBTASK 33-44-01-860-006

- (5) 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>
B	12	C00111	EXTERIOR LIGHTING ANTI COLLISION RED

SUBTASK 33-44-01-710-002

- (6) Do a test of the new light assembly [5]:

- (a) Set the switch for the upper anti-collision light, at the P5 overhead panel, to the on mode.
  - 1) Make sure that the light flashes (TASK 33-44-00-710-801).
- (b) Set the switch to the off mode.

EFFECTIVITY  
LOM ALL

**33-44-01**



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

- 1) Make sure that the light goes off.

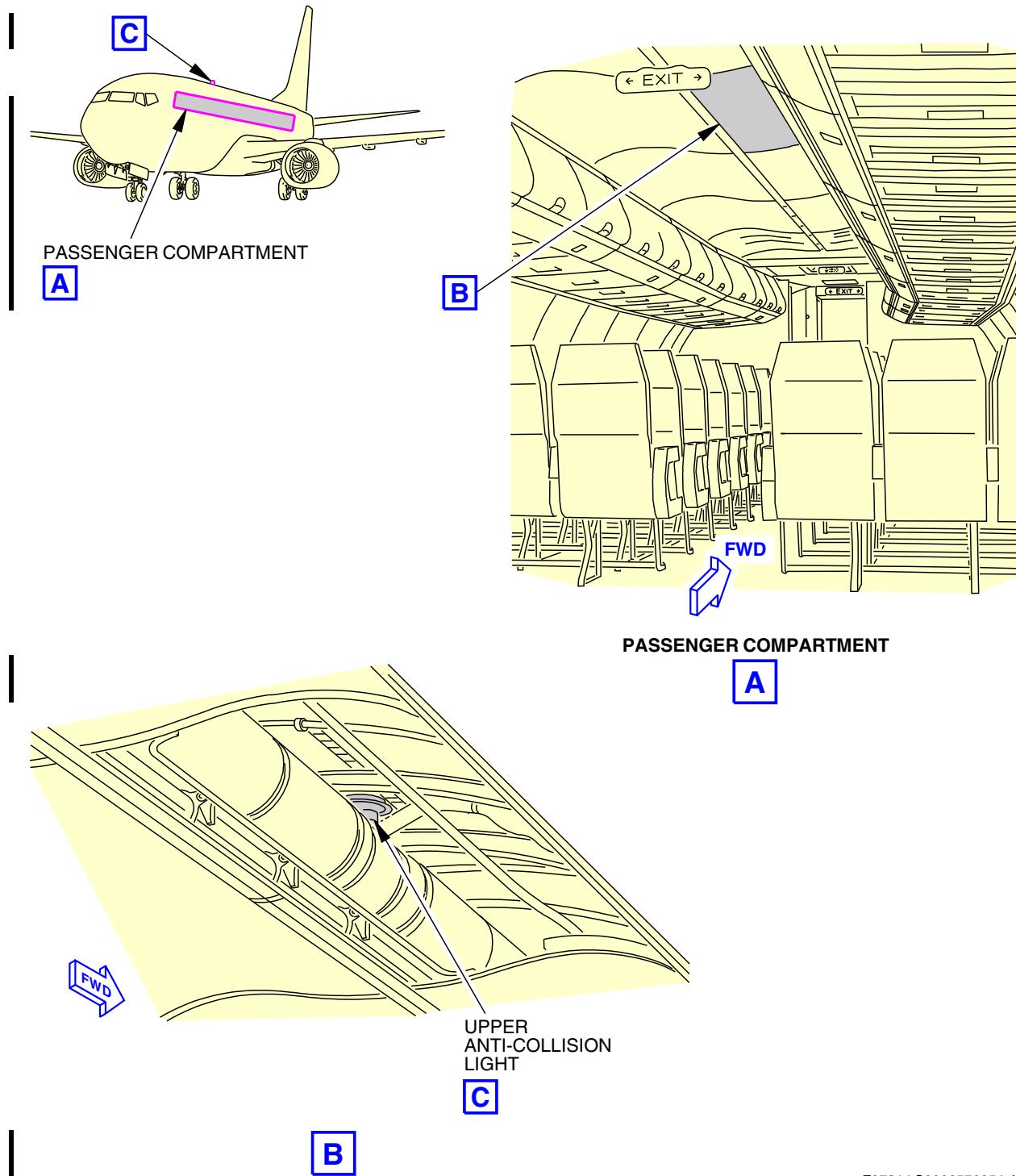
———— END OF TASK ————

— EFFECTIVITY —  
**LOM ALL**

**33-44-01**

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**Upper Anti-Collision Light - Light Assembly Replacement**  
**Figure 202/33-44-01-990-802 (Sheet 1 of 3)**

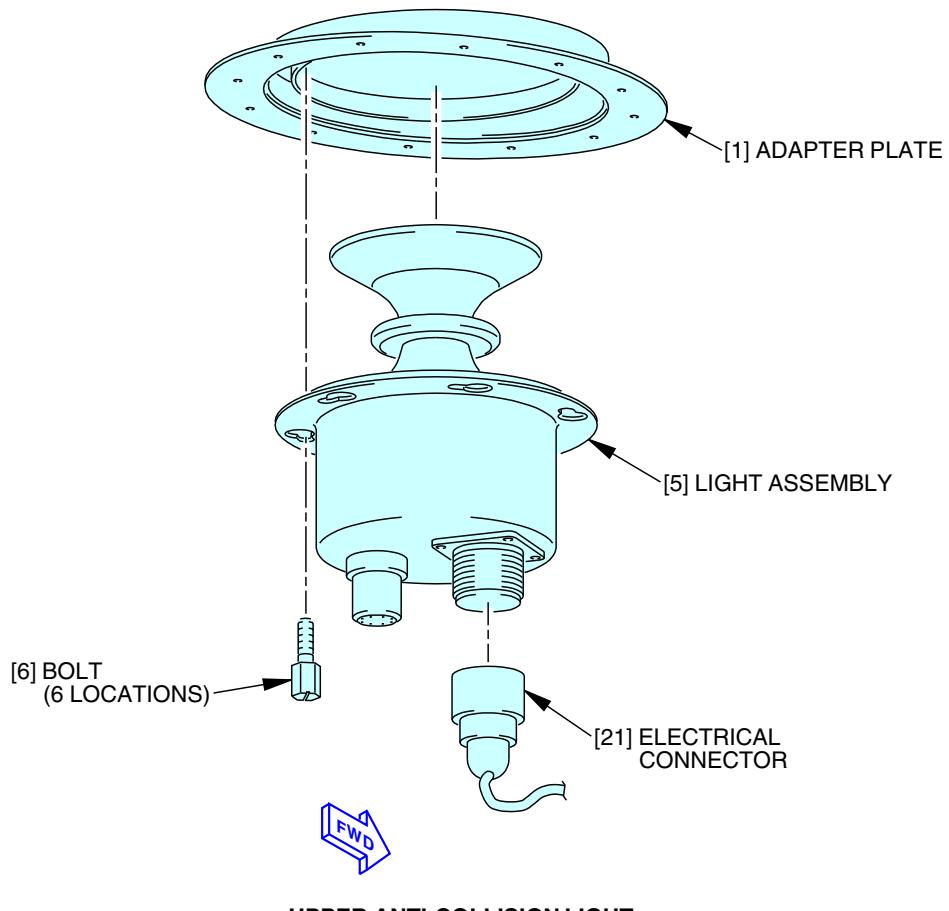
EFFECTIVITY  
**LOM ALL**

**33-44-01**

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AIRCRAFT MAINTENANCE MANUAL



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Upper Anti-Collision Light - Light Assembly Replacement  
Figure 202/33-44-01-990-802 (Sheet 2 of 3)

EFFECTIVITY  
LOM ALL

**33-44-01**

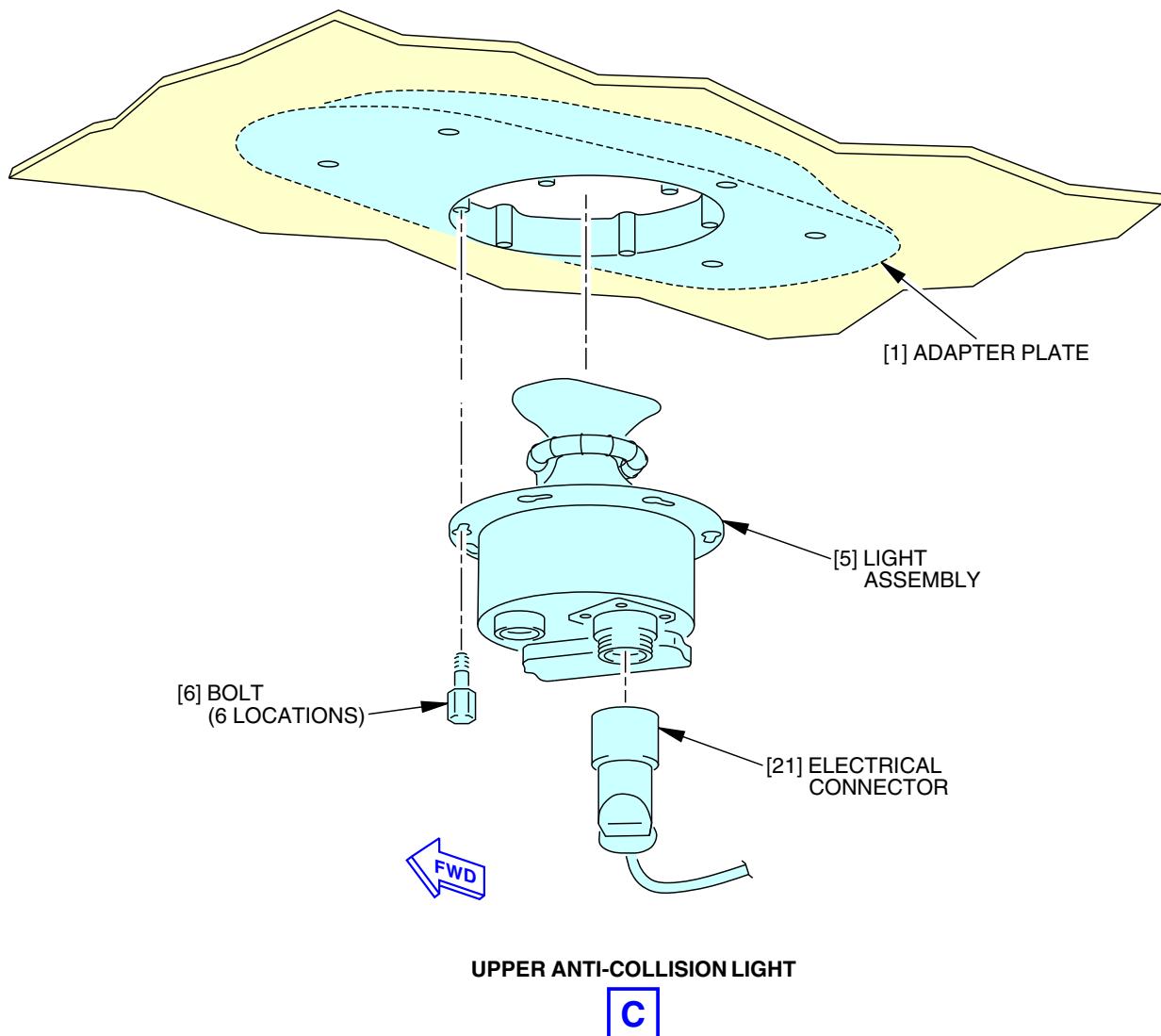
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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Upper Anti-Collision Light - Light Assembly Replacement  
Figure 202/33-44-01-990-802 (Sheet 3 of 3)

EFFECTIVITY  
LOM 427-434, 437-447, 450-999

**33-44-01**

D633A101-LOM

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**TASK 33-44-01-960-803**

**4. Upper Anti-Collision Light - Lens Replacement**

(Figure 203)

**A. References**

Reference	Title
51-21-21-100-801	Clean the Surface to be Painted (P/B 701)
51-21-41-370-802	Bonderite M-CR 600 Aero, Bonderite M-CR Alcrm 1200 Aero or Bonderite M-CR 1200S Aero Application Process (P/B 701)
51-21-99-300-801	Decorative Exterior Paint System Application (P/B 701)
51-31-00-390-802	Injection Seal Application (P/B 201)

**B. Consumable Materials**

Reference	Description	Specification
A00247	Sealant - Pressure And Environmental - Chromate Type	BMS5-95
A00562	Adhesive - High Strength Silicone Rubber, One-Part - RTV157	
C00064	Coating - Aluminum Chemical Conversion	BAC5719 Type II Class A (MIL-DTL-5541 Class 1A)
C00528	Compound - Corrosion Preventive, Petroleum Hot Application (Soft Film)	MIL-C-11796 Class III
C00954	Primer - Adhesive Bonding - SS4004P RTV	BAC5010 Type 74
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	AMS3819 Class 1 Grade A or B Form 1 (Supersede BMS15-5 CLA)
G50365	Agent - Peelable Parting (AC Products - AC962-73C) Production discontinued, use stock until depleted.	BAC5000
G50367	Agent - Peelable Parting (Aztec Chemical AZ 634-2)	MIL-PRF-6799, BAC5000
G50368	Agent - Peelable Parting (Rexco Chemical Company - Partall Coverall Film)	BAC5000

**C. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
41	Lens	33-44-01-01A-025	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426
		33-44-01-01A-114	LOM 427-434, 437-447, 450-999

**D. Location Zones**

Zone	Area
230	Subzone - Passenger Compartment - Body Station 360.00 to 663.75

**E. Upper Anti-Collision Light Lens Replacement**

SUBTASK 33-44-01-010-004

- (1) For access to the lens [41], go out of the airplane, on top of the fuselage.

EFFECTIVITY
LOM ALL



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SUBTASK 33-44-01-960-003

- (2) 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>
B	12	C00111	EXTERIOR LIGHTING ANTI COLLISION RED

SUBTASK 33-44-01-960-005

- (3) Do these steps to replace the lens [41]:

- (a) Loosen the screws [42] and lift off the lens [41].
- (b) Clean the surface that is left exposed by the light assembly (TASK 51-21-21-100-801).
- (c) If you change the aerodynamic light assembly to the non-aerodynamic light assembly, then do these steps:
  - 1) Make sure that you replace all components, including lens, adapter plate, lamp assembly.
  - 2) Apply coating, C00064, to the exposed surface (TASK 51-21-41-370-802).
  - 3) Apply paint to the exposed surface (TASK 51-21-99-300-801).
- (d) If you change the non-aerodynamic light assembly to the aerodynamic light assembly, do the following steps:
  - 1) Make sure that you replace all components, including lens, adapter plate, lamp assembly.
  - 2) Apply AC962-73C peelable parting agent, G50365, AZ 634-2 peelable parting agent, G50367, or Rexco Partall Coverall Film peelable parting agent, G50368, to the panel.
  - 3) Apply an injection seal of sealant, A00247, to the gap between the panels above the light assembly (TASK 51-31-00-390-802).
    - a) Use sealant, A00247, only to the part of the gap that the light assembly mounting base covers.
- (e) If the new lens [41] is dirty, clean it with a clean, soft, dry cotton wiper, G00034.
- (f) Put on the new lens [41] and tighten the screws [42] with the corrosion-preventive compound, C00528.
- (g) If necessary, replace the grommet [32].
  - 1) Remove the plug [31] and grommet [32].



**WARNING**

DO NOT GET PRIMER IN YOUR MOUTH, EYES, OR ON YOUR SKIN. DO NOT BREATHE THE FUMES FROM PRIMER. PUT ON GOGGLES, AND GLOVES WHEN YOU USE PRIMER. PRIMER IS POISONOUS AND CAN CAUSE INJURIES TO PERSONNEL AND DAMAGE TO EQUIPMENT.



**WARNING**

KEEP PRIMER AWAY FROM THE FLAME AND HEAT. PRIMER IS FLAMMABLE AND CAN CAUSE INJURIES TO PERSONNEL AND DAMAGE TO EQUIPMENT.

- 2) Apply the SS4004P RTV primer, C00954, to the grommet hole.

EFFECTIVITY  
LOM ALL

**33-44-01**



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**WARNING**

DO NOT GET ADHESIVE IN YOUR MOUTH, EYES, OR ON YOUR SKIN. DO NOT BREATHE THE FUMES FROM ADHESIVE. PUT ON GOGGLES, AND GLOVES WHEN YOU USE ADHESIVE. ADHESIVE IS POISONOUS AND CAN CAUSE INJURIES TO PERSONNEL AND DAMAGE TO EQUIPMENT.



**WARNING**

KEEP ADHESIVE AWAY FROM THE FLAME AND HEAT. ADHESIVE IS FLAMMABLE AND CAN CAUSE INJURIES TO PERSONNEL AND DAMAGE TO EQUIPMENT.

- 3) Apply the RTV157 adhesive, A00562, to the new grommet [32].
- 4) Install the grommet [32] and plug [31].

SUBTASK 33-44-01-960-006

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

**CAPT Electrical System Panel, P18-3**

Row   Col   Number   Name

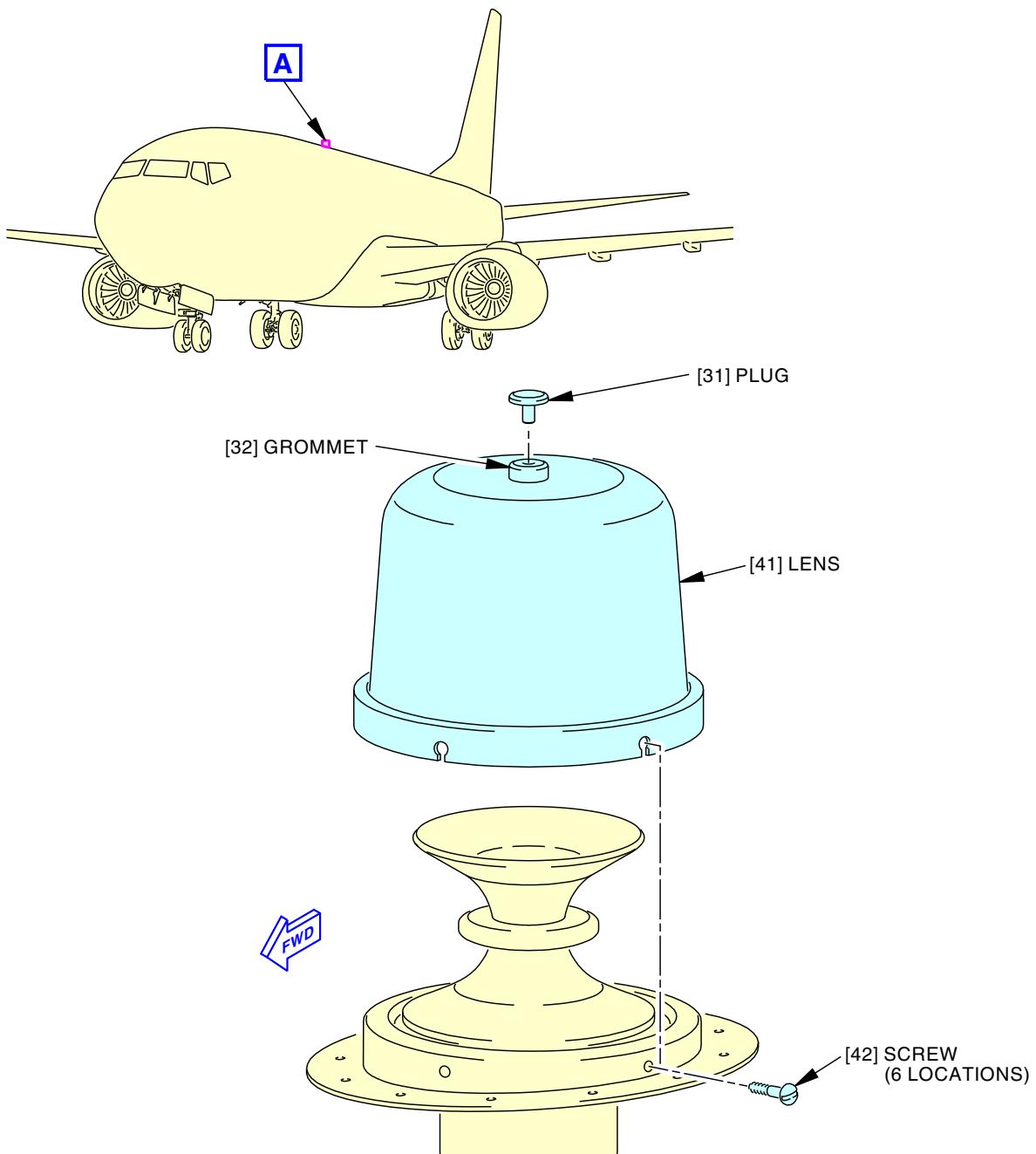
B	12	C00111	EXTERIOR LIGHTING ANTI COLLISION RED
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———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-44-01**

**BOEING**  
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**AIRCRAFT MAINTENANCE MANUAL**



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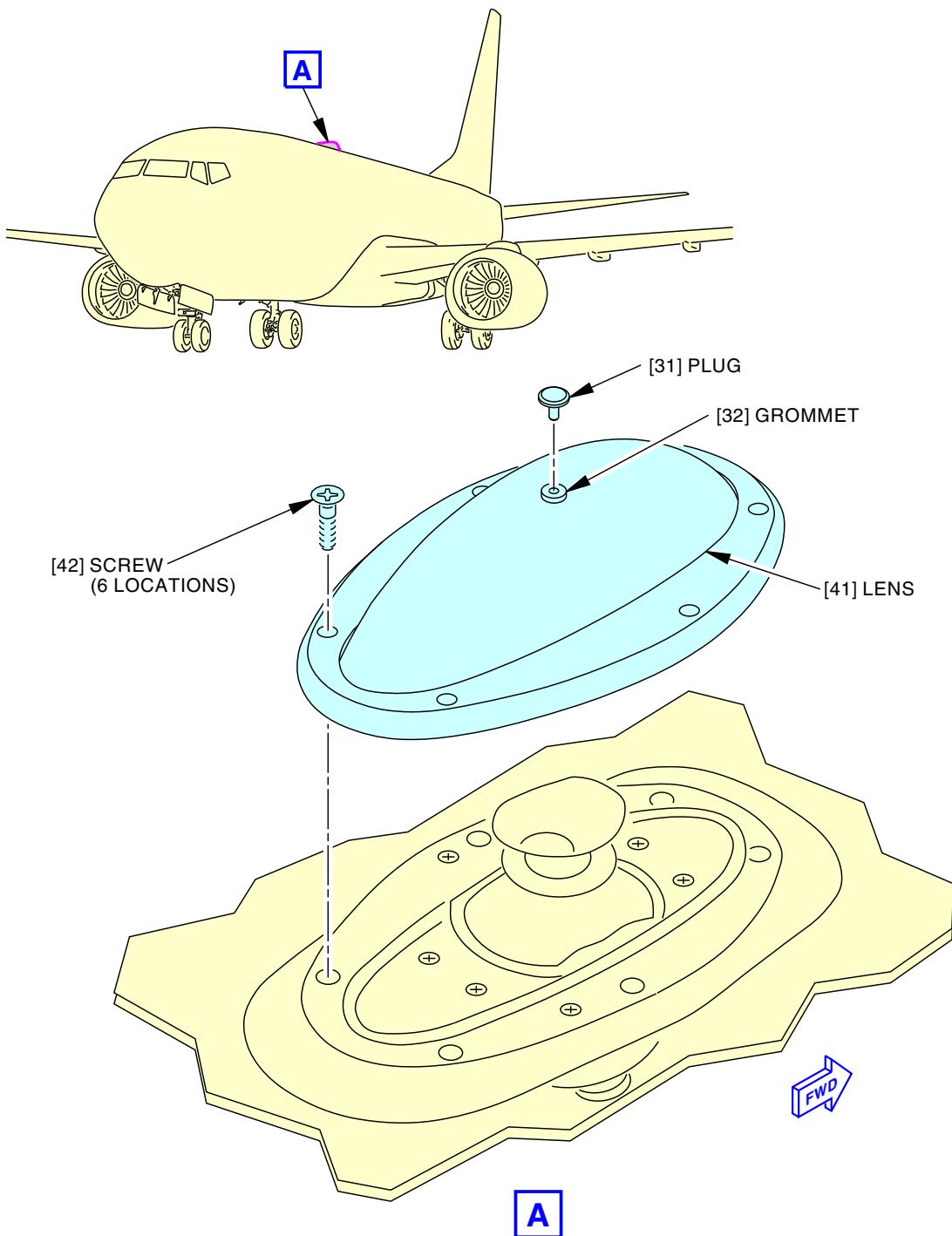
**Upper Anti-Collision Light Lens Replacement**  
**Figure 203/33-44-01-990-803 (Sheet 1 of 2)**

EFFECTIVITY  
**LOM ALL**

**33-44-01**



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Upper Anti-Collision Light Lens Replacement  
Figure 203/33-44-01-990-803 (Sheet 2 of 2)

EFFECTIVITY  
LOM 427-434, 437-447, 450-999

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**TASK 33-44-01-960-804**

**5. Upper Anti-Collision Light - Power Supply Replacement**

(Figure 204)

**A. References**

Reference	Title
25-21-45-000-801	Ceiling Panel - Removal (P/B 401)
25-21-45-000-803-001	Main Ceiling Panel - Removal (P/B 401)
25-21-45-400-801	Ceiling Panel - Installation (P/B 401)
25-21-45-400-803-001	Main Ceiling Panel - Installation (P/B 401)
25-24-31-000-801-001	Overhead Stowage Bin - Removal (P/B 401)
25-24-31-000-802-001	Overhead Stowage Bin Module - Removal (P/B 401)
25-24-31-000-804-001	Overhead Stowage Bin - Removal (P/B 401)
25-24-31-020-801	Overhead Stowage Bin - Removal (P/B 401)
25-24-31-400-801	Overhead Stowage Bin - Installation (P/B 401)
25-24-31-400-803-001	Overhead Stowage Bin - Installation (P/B 401)
25-24-31-400-804-001	Overhead Stowage Bin Module - Installation (P/B 401)
25-24-31-400-806-001	Overhead Stowage Bin - Installation (P/B 401)
33-44-00-710-801	Anti-Collision Lights - Operational Test (P/B 501)
51-31-00-160-801	Prepare For Sealing (P/B 201)
SWPM 20-20-00	ELECTRICAL BONDING PROCESSES
WDM 33-44-11	Wiring Diagram Manual

**B. Tools/Equipment**

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

Reference	Description
COM-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
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
C00064	Coating - Aluminum Chemical Conversion	BAC5719 Type II Class A (MIL-DTL-5541 Class 1A)



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(Continued)

<b>Reference</b>	<b>Description</b>	<b>Specification</b>
C00259	Coating - Chemical And Solvent Resistant Finish, Corrosion Inhibiting Primer	BMS10-11 Type I
G50961	Coating - Corrosion Inhibiting Epoxy Primer - (BAC 377 Yellow Color)	BMS10-11 Type I

**D. Expendables/Parts**

<b>AMM Item</b>	<b>Description</b>	<b>AIPC Reference</b>	<b>AIPC Effectivity</b>
62	Power supply	33-44-01-01A-505	LOM ALL

**E. Location Zones**

<b>Zone</b>	<b>Area</b>
230	Subzone - Passenger Compartment - Body Station 360.00 to 663.75

**F. Upper Anti-Collision Light Power Supply Replacement**

SUBTASK 33-44-01-860-009

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

**CAPT Electrical System Panel, P18-3**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
B	12	C00111	EXTERIOR LIGHTING ANTI COLLISION RED

SUBTASK 33-44-01-010-012

- (2) Do this task: Overhead Stowage Bin - Removal, TASK 25-24-31-020-801 or Overhead Stowage Bin - Removal, TASK 25-24-31-000-801-001 or Overhead Stowage Bin Module - Removal, TASK 25-24-31-000-802-001 or Overhead Stowage Bin - Removal, TASK 25-24-31-000-804-001.

SUBTASK 33-44-01-010-003

- (3) Do this task: Ceiling Panel - Removal, TASK 25-21-45-000-801 or Main Ceiling Panel - Removal, TASK 25-21-45-000-803-001.

NOTE: The power supply is installed to the right side of the anti-collision light.

SUBTASK 33-44-01-960-004



**WARNING** DO NOT TOUCH THE POWER SUPPLY FOR THREE MINUTES AFTER YOU REMOVE ELECTRICAL POWER. AN ELECTRICAL SHOCK CAN CAUSE INJURY TO PERSONS OR DAMAGE TO EQUIPMENT.

- (4) Do these steps to remove the power supply [62] (WDM 33-44-11):

NOTE: Do not discard the power supply. Usually, you can repair it with a new capacitor assembly. Do the repairs in a shop.

- (a) Disconnect the electrical connectors [63].
- (b) Loosen the fasteners [61] on the power supply.
- (c) Remove the sealant between the power supply [62] and structure (TASK 51-31-00-160-801).
- (d) Remove the power supply [62].

SUBTASK 33-44-01-120-003

- (5) Clean the fay surface contact areas on the support bracket and power supply with abrasive (SWPM 20-20-00).

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LOM ALL



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SUBTASK 33-44-01-110-001

- (6) Refinish the metal surfaces:

- (a) Apply a layer of coating, C00064, to the surface contact areas on the support bracket and power supply.
- (b) Apply a layer of primer, C00259, or coating, G50961, to the surface contact areas on the support bracket and power supply.

SUBTASK 33-44-01-390-006

- (7) Apply a thin layer of sealant, A50155, sealant, A50110, sealant, A50231, or sealant, A50296, to the fay surface ground areas on the bracket and the new power supply.

SUBTASK 33-44-01-420-011

- (8) Install the new power supply [62].
- (9) Tighten the fasteners [61].
- (10) Connect the electrical connectors [63].
- (11) Measure the electrical bonding resistance, using an intrinsically safe approved bonding meter, COM-1550, between the power supply [62] and fuselage (SWPM 20-20-00).
  - (a) Make sure that the bonding resistance is 0.0025 ohm (2.5 milliohms) or less.

SUBTASK 33-44-01-410-003

- (12) Do this task: Ceiling Panel - Installation, TASK 25-21-45-400-801 or Main Ceiling Panel - Installation, TASK 25-21-45-400-803-001.

SUBTASK 33-44-01-410-007

- (13) Do this task: Overhead Stowage Bin - Installation, TASK 25-24-31-400-801 or Overhead Stowage Bin - Installation, TASK 25-24-31-400-803-001 or Overhead Stowage Bin Module - Installation, TASK 25-24-31-400-804-001 or Overhead Stowage Bin - Installation, TASK 25-24-31-400-806-001.

SUBTASK 33-44-01-860-010

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

**CAPT Electrical System Panel, P18-3**

Row    Col    Number    Name

B      12      C00111      EXTERIOR LIGHTING ANTI COLLISION RED

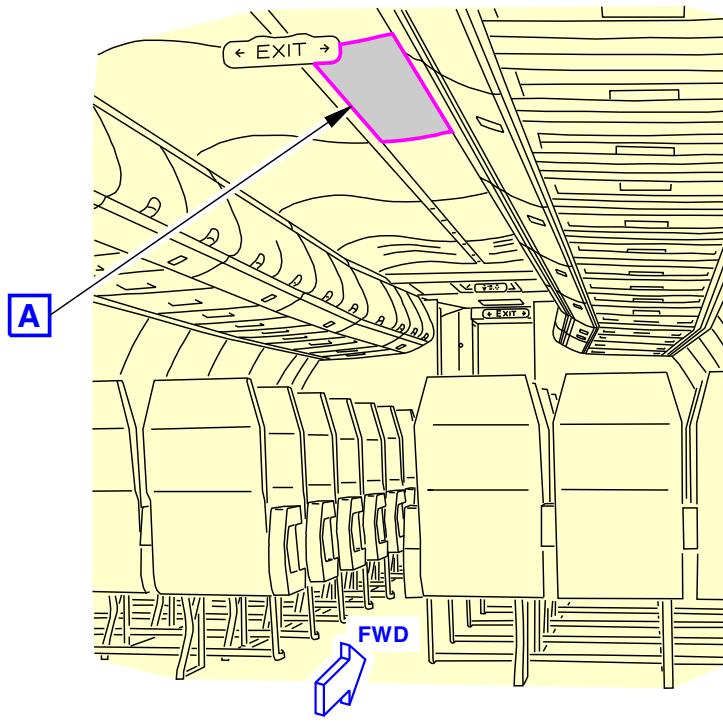
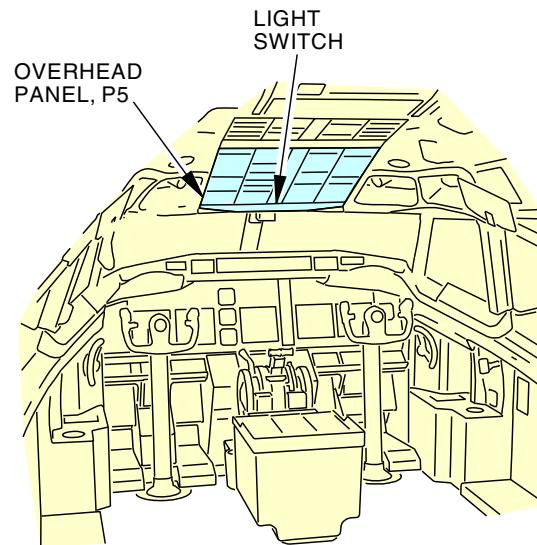
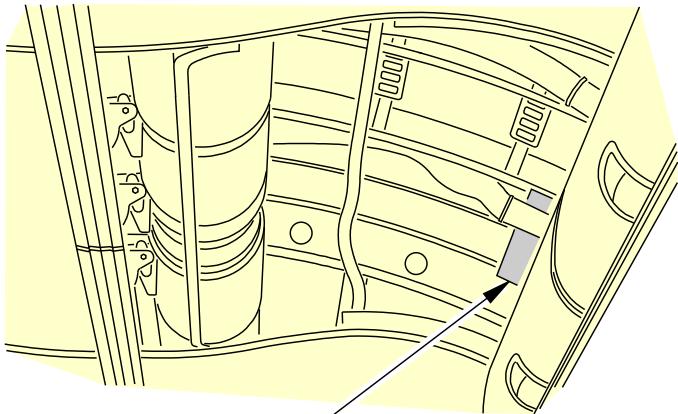
SUBTASK 33-44-01-710-003

- (15) Do a test of the new power supply [62].
- (a) Set the switch for the upper anti-collision light, at the P5 overhead panel, to the on mode.
    - 1) Make sure that the light flashes (TASK 33-44-00-710-801).
  - (b) Set the switch to the off mode.
    - 1) Make sure that the light goes off.

———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-44-01**


**PASSENGER COMPARTMENT**

**FLIGHT COMPARTMENT**

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**Upper Anti-Collision Light - Power Supply Replacement**  
**Figure 204/33-44-01-990-804 (Sheet 1 of 2)**

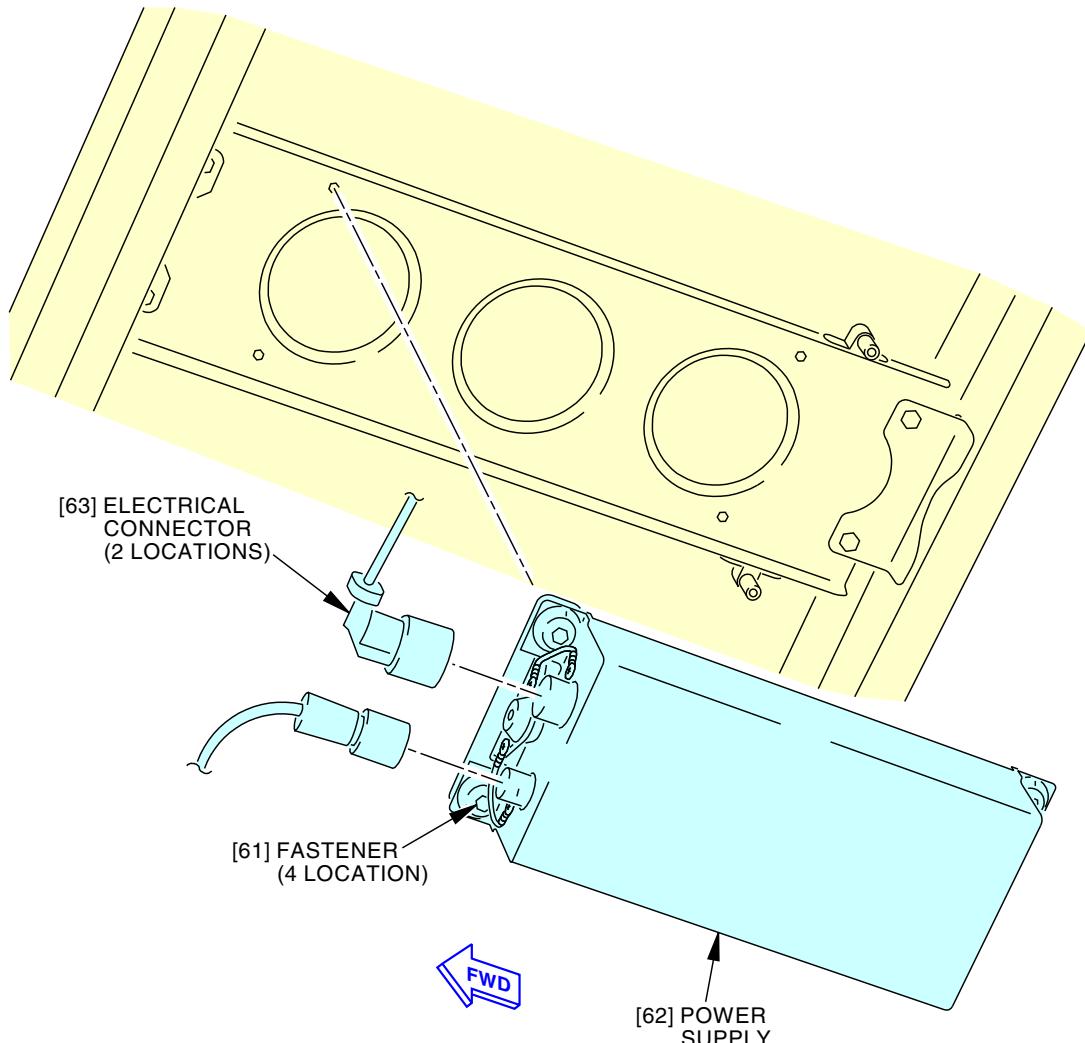
EFFECTIVITY  
**LOM ALL**

**33-44-01**

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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



UPPER ANTI-COLLISION LIGHT POWER SUPPLY

**B**

F97755 S0006576260\_V2

Upper Anti-Collision Light - Power Supply Replacement  
Figure 204/33-44-01-990-804 (Sheet 2 of 2)

EFFECTIVITY  
LOM ALL

D633A101-LOM

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LOM ALL; AIRPLANES WITHOUT AERODYNAMIC SHAPED LIGHT

**TASK 33-44-01-960-805**

**6. Upper Anti-Collision Light - Adapter Plate Replacement**

(Figure 202, Figure 203, and Figure 205)

**A. General**

- (1) This task removes and installs the adapter plate for the upper anti-collision light.
- (2) The upper anti-collision adapter plate will be referred to as the adapter plate.

**B. References**

Reference	Title
20-30-88-910-801	Final Cleaning of Metal Prior to Non-structural Bonding (Series 88) (P/B 201)
21-23-01-000-801	Overhead Distribution Duct Removal (P/B 201)
25-21-45-000-801	Ceiling Panel - Removal (P/B 401)
25-21-45-000-803-001	Main Ceiling Panel - Removal (P/B 401)
25-21-45-400-801	Ceiling Panel - Installation (P/B 401)
25-21-45-400-803-001	Main Ceiling Panel - Installation (P/B 401)
33-44-00-710-801	Anti-Collision Lights - Operational Test (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-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
STD-297	Drill - Hand
STD-1328	Machine - Drilling, Electrical or Pneumatic

**D. Consumable Materials**

Reference	Description	Specification
A00247	Sealant - Pressure And Environmental - Chromate Type	BMS5-95
A50231	Sealant - Pressure And Environmental - Chromate Type	BMS5-95 Class B
A50337	Sealant - Fuel Tank	BMS5-45 Class B
A50343	Sealant - PPG Aerospace PR-1772 Class B Low Weight Fuselage Sealant	BMS5-142 Type II Class B
B01008	Solvent - Final Cleaning Of Metal Prior To Non-Structural Bonding (AMM 20-30-88) - Series 88	

EFFECTIVITY  
LOM ALL

**33-44-01**



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

**LOM ALL; AIRPLANES WITHOUT AERODYNAMIC SHAPED LIGHT (Continued)**

(Continued)

<b>Reference</b>	<b>Description</b>	<b>Specification</b>
C00862	Coating - Chemical Conversion - Bonderite M-CR 600 Aero (Formerly Alodine 600)	BAC5719 Class A, C or D, MIL-DTL-81706 Type I Class 1A or 3
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	AMS3819 Class 1 Grade A or B Form 1 (Supersede BMS15-5 CL A)

**E. Location Zones**

<b>Zone</b>	<b>Area</b>
230	Subzone - Passenger Compartment - Body Station 360.00 to 663.75

**F. Prepare for the Replacement**

SUBTASK 33-44-01-860-013

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

**CAPT Electrical System Panel, P18-3**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
B	12	C00111	EXTERIOR LIGHTING ANTI COLLISION RED

**LOM ALL**

SUBTASK 33-44-01-010-008

- (2) Do one of the steps below to get access to the adapter plate [1] (Figure 202):

NOTE: The overhead distribution duct is installed below and near the upper anti-collision light, which makes the adapter plate removal difficult.

- (a) To remove the ceiling panel only, do this task: Ceiling Panel - Removal, TASK 25-21-45-000-801 or Main Ceiling Panel - Removal, TASK 25-21-45-000-803-001.
- (b) To remove the ceiling panel and the section of the duct below the light, do this task: Overhead Distribution Duct Removal, TASK 21-23-01-000-801.

**LOM ALL; AIRPLANES WITHOUT AERODYNAMIC SHAPED LIGHT**

**G. Upper Anti-Collision Light Adapter Plate Replacement**

SUBTASK 33-44-01-020-001

- (1) Do these steps to remove the upper anti-collision light assembly [5] (Figure 202):
  - (a) Disconnect the electrical connector [21].
  - (b) Remove the bolts [6] on the bottom of the light assembly [5].
  - (c) Turn the light assembly [5] clockwise and pull it down from the adapter plate [1].

SUBTASK 33-44-01-020-002

- (2) Do these steps to remove the upper anti-collision light lens [41] (Figure 203):
  - (a) For access to the lens [41], go out of the airplane, on top of the fuselage.
  - (b) Loosen the screws [42] and lift off the lens [41].

SUBTASK 33-44-01-020-003

- (3) Remove the bolts [71] from the adapter plate [1], on top of the fuselage (Figure 205).
  - (a) Remove the adapter plate [1].

EFFECTIVITY  
**LOM ALL**

**33-44-01**



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LOM ALL; AIRPLANES WITHOUT AERODYNAMIC SHAPED LIGHT (Continued)

SUBTASK 33-44-01-120-001



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- (4) Clean the following faying surfaces with Series 88 solvent, B01008 (TASK 20-30-88-910-801):  
(a) aircraft skin  
(b) adapter plate [1]

SUBTASK 33-44-01-910-001

- (5) Manually apply Bonderite M-CR 600 Aero coating, C00862, to the abraded aircraft skin surface.

SUBTASK 33-44-01-320-001

- (6) If you replace the adapter plate [1], then do these steps to back drill the new adapter plate [1] off-aircraft:

NOTE: You must drill the adapter plate off-aircraft.

- (a) Use a hand drill, STD-297, or electrical or pneumatic drilling machine, STD-1328, and drill bit to back drill 12 holes to a diameter of 0.187 in. (0.475 cm) to 0.19 in. (0.48 cm).  
NOTE: Use the 12 pilot holes in the adapter plate as a template.  
(b) Increase the diameter of the pilot holes by hand countersinking the 12 holes to a diameter of 0.2966 in. (0.7534 cm) to 0.3116 in. (0.7915 cm) x 100 degrees.

SUBTASK 33-44-01-390-001

- (7) Do these steps to prepare the adapter plate [1] and the aircraft skin for a sealed electrical faying surface bond (SWPM 20-20-00):



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- (a) Final clean the contact surface of the adapter plate [1] with a cotton wiper, G00034, soaked with Series 88 solvent, B01008 (TASK 20-30-88-910-801).  
(b) Rub dry with a clean, dry cotton wiper, G00034.  
(c) Continue to clean and dry the adapter plate [1] surface until the dry cotton wiper, G00034, stays clean.  
(d) Apply sealant to the contact surface of the adapter plate [1].  
1) Use sealant, A50337, sealant, A50231, or PR-1772 Class B Sealant, A50343, for the faying surface seal.

EFFECTIVITY  
LOM ALL

**33-44-01**



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

**LOM ALL; AIRPLANES WITHOUT AERODYNAMIC SHAPED LIGHT (Continued)**

SUBTASK 33-44-01-390-002

- (8) Apply sealant, A00247, to the shank and threads of the twelve bolts [71].

SUBTASK 33-44-01-420-001

- (9) Install the adapter plate [1] on the aircraft skin using the twelve bolts [71].
- (a) Make sure that the sealant is continuously squeezed out along the edges of the adapter plate [1].
  - (b) If there are gaps, bubbles, or voids in the sealant squeeze out, then disassemble and apply more sealant.
  - (c) Shape the squeezed out sealant into a fillet seal.
  - (d) As an option, remove the extra squeezed out sealant.

NOTE: Make sure the sealant that remains is flush with the mating part edges.

SUBTASK 33-44-01-760-001

- (10) Measure the electrical bonding resistance, using an intrinsically safe approved bonding meter, COM-1550, between the adapter plate [1] and aircraft skin (SWPM 20-20-00).
- (a) Make sure the bonding resistance is 0.0005 ohm (0.5 milliohm) or less.

SUBTASK 33-44-01-420-002

- (11) Install the lens [41] on the adapter plate [1] and tighten the screws [42].
- (a) If the lens [41] is dirty, clean it with a clean, dry cotton wiper, G00034.

SUBTASK 33-44-01-420-003

- (12) Do these steps to install the upper anti-collision light assembly [5]:
- (a) Put the light assembly [5] in the adapter plate [1] and turn it counterclockwise.
  - (b) Install the bolts [6] and tighten to a torque of  $10 \pm 1$  in-lb ( $1.1 \pm 0.1$  N·m).
  - (c) Connect the electrical connector [21].
  - (d) Measure the electrical bonding resistance, using an intrinsically safe approved bonding meter, COM-1550, between the light assembly [5] and adapter plate [1] (SWPM 20-20-00).
- 1) Make sure that the bonding resistance is 0.0015 ohm (1.5 milliohms) or less.

SUBTASK 33-44-01-710-004

- (13) Do a test of the light assembly [5]:
- (a) Set the switch for the upper anti-collision light, at the P5 overhead panel, to the ON mode.
    - 1) Make sure that the light flashes (TASK 33-44-00-710-801).
  - (b) Set the switch to the OFF mode.
    - 1) Make sure that the light goes off.

**H. Put the Airplane Back to Its Usual Condition**

SUBTASK 33-44-01-420-004

- (1) Do these steps to install the items that were removed for access to the adapter plate [1]:

**LOM ALL**

- (a) To install the ceiling panel only, do this task: Ceiling Panel - Installation, TASK 25-21-45-400-801 or Main Ceiling Panel - Installation, TASK 25-21-45-400-803-001.

EFFECTIVITY  
**LOM ALL**



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

- (b) To install the ceiling panel and the section of the duct below the light, do this task:  
Overhead Distribution Duct Removal, TASK 21-23-01-000-801.

**LOM ALL; AIRPLANES WITHOUT AERODYNAMIC SHAPED LIGHT**

SUBTASK 33-44-01-860-015

- (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>
B	12	C00111	EXTERIOR LIGHTING ANTI COLLISION RED

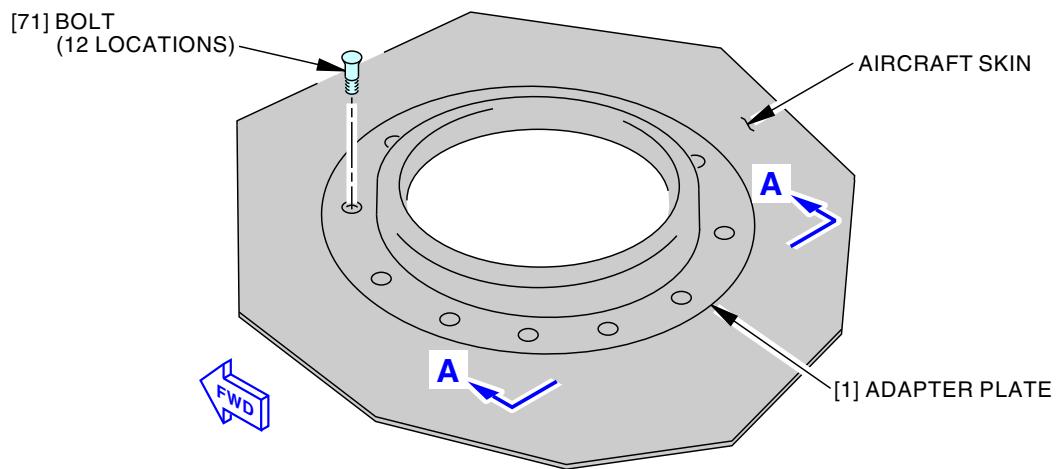
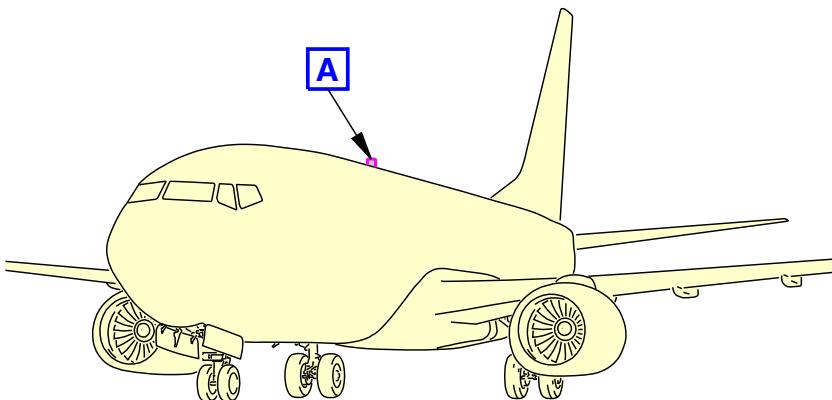
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EFFECTIVITY  
**LOM ALL**

**33-44-01**

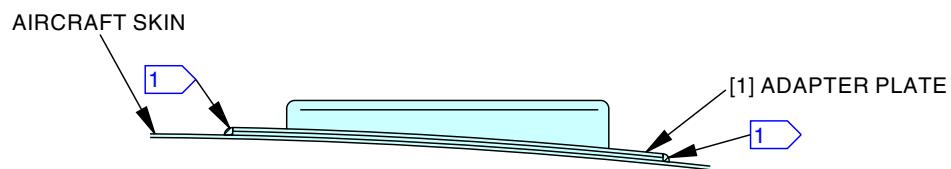


737-600/700/800/900  
AIRCRAFT MAINTENANCE MANUAL



UPPER ANTI-COLLISION ADAPTER PLATE

A



A-A

1 FILLET SEAL

2071836 S0000432741\_V2

Upper Anti-Collision Light - Adapter Plate Replacement  
Figure 205/33-44-01-990-805

EFFECTIVITY  
LOM ALL; AIRPLANES WITHOUT AERODYNAMIC  
SHAPED LIGHT

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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**LOM 427-434, 437-447, 450-999; AIRPLANES WITH AERODYNAMIC SHAPED LIGHT**

**TASK 33-44-01-960-806**

**7. Upper Anti-Collision Light - Adapter Plate Replacement**

(Figure 202)(Figure 203)(Figure 206)

**A. General**

- (1) This task removes and installs the adapter plate for the upper anti-collision light.
- (2) The upper anti-collision adapter plate will be referred to as the adapter plate.

**B. References**

<b>Reference</b>	<b>Title</b>
20-30-88-910-801	Final Cleaning of Metal Prior to Non-structural Bonding (Series 88) (P/B 201)
21-23-01-000-801	Overhead Distribution Duct Removal (P/B 201)
24-22-00-860-811	Supply Electrical Power (P/B 201)
25-21-45-000-803-001	Main Ceiling Panel - Removal (P/B 401)
25-21-45-400-803-001	Main Ceiling Panel - Installation (P/B 401)
33-44-00-710-801	Anti-Collision Lights - Operational Test (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.

<b>Reference</b>	<b>Description</b>
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
STD-297	Drill - Hand
STD-1328	Machine - Drilling, Electrical or Pneumatic

**D. Consumable Materials**

<b>Reference</b>	<b>Description</b>	<b>Specification</b>
A00247	Sealant - Pressure And Environmental - Chromate Type	BMS5-95
A50231	Sealant - Pressure And Environmental - Chromate Type	BMS5-95 Class B
A50337	Sealant - Fuel Tank	BMS5-45 Class B
A50343	Sealant - PPG Aerospace PR-1772 Class B Low Weight Fuselage Sealant	BMS5-142 Type II Class B
B01008	Solvent - Final Cleaning Of Metal Prior To Non-Structural Bonding (AMM 20-30-88) - Series 88	

EFFECTIVITY	
LOM ALL	

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**LOM 427-434, 437-447, 450-999; AIRPLANES WITH AERODYNAMIC SHAPED LIGHT (Continued)**

(Continued)

<b>Reference</b>	<b>Description</b>	<b>Specification</b>
C00862	Coating - Chemical Conversion - Bonderite M-CR 600 Aero (Formerly Alodine 600)	BAC5719 Class A, C or D, MIL-DTL-81706 Type I Class 1A or 3
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	AMS3819 Class 1 Grade A or B Form 1 (Supersede BMS15-5 CL A)

**E. Location Zones**

<b>Zone</b>	<b>Area</b>
230	Subzone - Passenger Compartment - Body Station 360.00 to 663.75

**F. Prepare for the Removal**

SUBTASK 33-44-01-860-016

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

**CAPT Electrical System Panel, P18-3**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
B	12	C00111	EXTERIOR LIGHTING ANTI COLLISION RED

**LOM 427-434, 437-447, 450-999**

SUBTASK 33-44-01-010-010

- (2) Do one of the steps below to get access to the adapter plate [1] (Figure 202):

NOTE: The overhead distribution duct is installed below and near the upper anti-collision light, which makes the adapter plate removal difficult.

- (a) To remove the ceiling panel only, do this task: Main Ceiling Panel - Removal, TASK 25-21-45-000-803-001.
- (b) To remove the ceiling panel and the section of the duct below the light, do this task: Overhead Distribution Duct Removal, TASK 21-23-01-000-801.

**LOM 427-434, 437-447, 450-999; AIRPLANES WITH AERODYNAMIC SHAPED LIGHT**

**G. Procedure**

SUBTASK 33-44-01-020-004

- (1) Do these steps to remove the upper anti-collision light assembly [5] (Figure 202):
  - (a) Disconnect the electrical connector [21].
  - (b) Remove the bolts [6] on the bottom of the light assembly [5] (6 locations).
  - (c) Turn the light assembly [5] clockwise and pull it down from the adapter plate [1].

SUBTASK 33-44-01-020-005

- (2) Do these steps to remove the upper anti-collision light lens [41] (Figure 203):
  - (a) For access to the lens [41], go out of the airplane, on top of the fuselage.
  - (b) Loosen the screws [42] (6 locations) and lift off the lens [41].

SUBTASK 33-44-01-020-006

- (3) Remove the screws [73] from the gasket [72], on top of the fuselage (6 locations) (Figure 206).

EFFECTIVITY
LOM ALL

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**LOM 427-434, 437-447, 450-999**

SUBTASK 33-44-01-020-007

- (4) Remove the bolts [71] from the adapter plate [1], on top of the fuselage (12 locations) (Figure 206).
  - (a) Remove the adapter plate [1].

**LOM 427-434, 437-447, 450-999; AIRPLANES WITH AERODYNAMIC SHAPED LIGHT**

SUBTASK 33-44-01-120-002



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- (5) Clean the following faying surfaces with Series 88 solvent, B01008 (TASK 20-30-88-910-801):
  - (a) aircraft skin
  - (b) adapter plate [1]
  - (c) gasket [72]

SUBTASK 33-44-01-910-002

- (6) Manually apply Bonderite M-CR 600 Aero coating, C00862, to the abraded aircraft skin surface.

SUBTASK 33-44-01-320-002

- (7) If you replace the adapter plate [1], then do these steps to back drill the new adapter plate [1] off-aircraft:

NOTE: You must drill the adapter plate off-aircraft.

- (a) Use a hand drill, STD-297, or electrical or pneumatic drilling machine, STD-1328, and drill bit to back drill 12 holes to a diameter of 0.187 in. (0.475 cm) to 0.19 in. (0.48 cm).

NOTE: Use the 12 pilot holes in the adapter plate as a template.

- (b) Increase the diameter of the pilot holes by hand countersinking the 12 holes to a diameter of 0.2966 in. (0.7534 cm) to 0.3116 in. (0.7915 cm) x 100 degrees.

SUBTASK 33-44-01-390-003

- (8) Do these steps to prepare the adapter plate [1] and the aircraft skin for a sealed electrical faying surface bond (SWPM 20-20-00):



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- (a) Final clean the contact surface of the adapter plate [1] with a cotton wiper, G00034, soaked with Series 88 solvent, B01008 (TASK 20-30-88-910-801).
- (b) Rub dry with a clean, dry cotton wiper, G00034.

EFFECTIVITY  
LOM ALL

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**AIRCRAFT MAINTENANCE MANUAL**

**LOM 427-434, 437-447, 450-999; AIRPLANES WITH AERODYNAMIC SHAPED LIGHT (Continued)**

- (c) Continue to clean and dry the adapter plate [1] surface until the dry cotton wiper, G00034, stays clean.
- (d) Apply sealant to the contact surface of the adapter plate [1].
  - 1) Use sealant, A50337, sealant, A50231, or PR-1772 Class B Sealant, A50343, for the faying surface seal.

**LOM 427-434, 437-447, 450-999**

SUBTASK 33-44-01-390-004

- (9) Apply sealant, A00247, to the shank and threads of the twelve bolts [71].

SUBTASK 33-44-01-420-005

- (10) Install the adapter plate [1] on the aircraft skin using the twelve bolts [71].
  - (a) Make sure the sealant is continuously squeezed out along the edges of the adapter plate [1].
  - (b) If there are gaps, bubbles, or voids in the sealant squeeze out, then disassemble and apply more sealant.
  - (c) Shape the squeezed out sealant into a fillet seal.
  - (d) As an option, remove the extra squeezed out sealant.

NOTE: Make sure the sealant that remains is flush with the mating part edges.

**LOM 427-434, 437-447, 450-999; AIRPLANES WITH AERODYNAMIC SHAPED LIGHT**

SUBTASK 33-44-01-760-002

- (11) Measure the electrical bonding resistance, using an intrinsically safe approved bonding meter, COM-1550, between the adapter plate [1] and the aircraft skin (SWPM 20-20-00).
  - (a) Make sure the bonding resistance is 0.0005 ohm (0.5 milliohm) or less.

SUBTASK 33-44-01-420-006

- (12) Install the gasket [72] on the adapter plate [1] and tighten the screws [73] to a torque of  $10 \pm 1$  in-lb ( $1 \pm 0$  N·m) (6 locations).

SUBTASK 33-44-01-420-007

- (13) Install the lens [41] on the adapter plate [1] and tighten the screws [42] (6 locations).
  - (a) If the lens [41] is dirty, clean it with a clean, dry cotton wiper, G00034.

SUBTASK 33-44-01-420-008

- (14) Do these steps to install the upper anti-collision light assembly [5]:
  - (a) Put the light assembly [5] in the adapter plate [1] and turn it counterclockwise.
  - (b) Install the bolts [6] and tighten to a torque of  $10 \pm 1$  in-lb ( $1 \pm 0$  N·m) (6 locations).
  - (c) Connect the electrical connector [21].
  - (d) Measure the electrical bonding resistance, using an intrinsically safe approved bonding meter, COM-1550, between the light assembly [5] and the adapter plate [1] (SWPM 20-20-00).
    - 1) Make sure the bonding resistance is 0.0015 ohm (1.5 milliohms) or less.

SUBTASK 33-44-01-860-017

- (15) If necessary, supply electrical power (TASK 24-22-00-860-811).

EFFECTIVITY  
LOM ALL

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**AIRCRAFT MAINTENANCE MANUAL**

**LOM 427-434, 437-447, 450-999; AIRPLANES WITH AERODYNAMIC SHAPED LIGHT (Continued)**

SUBTASK 33-44-01-710-005

(16) Do a test of the light assembly [5]:

- (a) At the P5 overhead panel, set the switch for the upper anti-collision light to the ON mode.
  - 1) Make sure the light flashes (TASK 33-44-00-710-801).
- (b) Set the switch to the OFF mode.
  - 1) Make sure the light goes off.

**H. Put the Airplane Back to Its Usual Condition**

SUBTASK 33-44-01-420-009

(1) Do these steps to install the items that were removed for access to the adapter plate [1]:

**LOM 427-434, 437-447, 450-999**

- (a) To install the ceiling panel only, do this task: Main Ceiling Panel - Installation, TASK 25-21-45-400-803-001.
- (b) To install the ceiling panel and the section of the duct below the light, do this task: Overhead Distribution Duct Removal, TASK 21-23-01-000-801.

**LOM 427-434, 437-447, 450-999; AIRPLANES WITH AERODYNAMIC SHAPED LIGHT**

SUBTASK 33-44-01-860-018

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

**CAPT Electrical System Panel, P18-3**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
B	12	C00111	EXTERIOR LIGHTING ANTI COLLISION RED

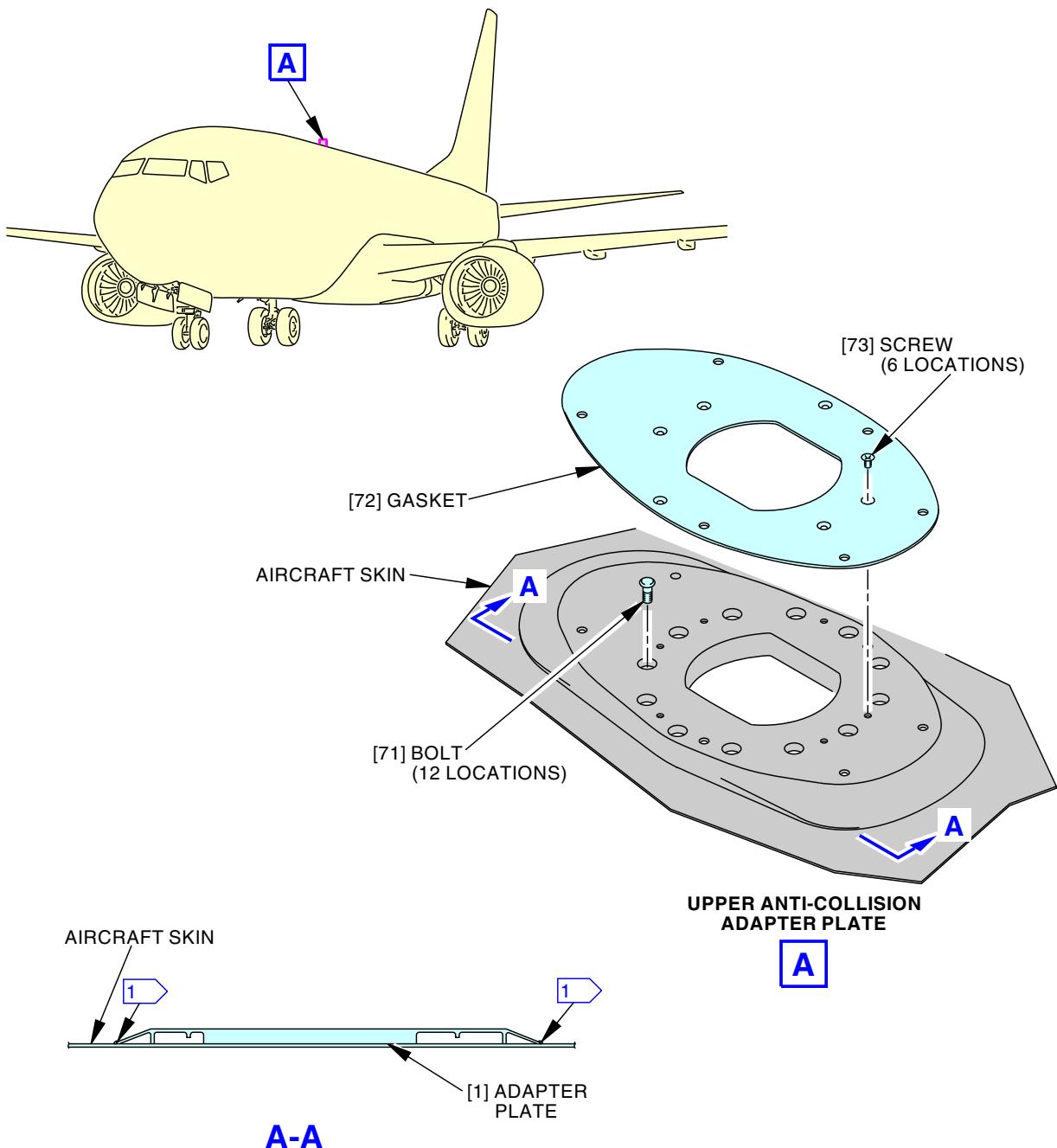
———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-44-01**



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



FILLET SEAL

2072064 S0000432766\_V2

Upper Anti-Collision Light - Adapter Plate Replacement  
Figure 206/33-44-01-990-806

EFFECTIVITY  
LOM 427-434, 437-447, 450-999

**33-44-01**

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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LOWER ANTI-COLLISION LIGHT - MAINTENANCE PRACTICES

**1. General**

- A. This procedure has these tasks:
- (1) Lower Anti-Collision Light - Lamp Assembly Replacement
  - (2) Lower Anti-Collision Light - Light Assembly Replacement
  - (3) Lower Anti-Collision Light - Lens Replacement
  - (4) Lower Anti-Collision Light - Power Supply Replacement

**TASK 33-44-02-960-801**

**2. Lower Anti-Collision Light - Lamp Assembly Replacement**

(Figure 201)

**A. General**

- (1) The lamp assembly in this procedure is also referred to as a reflector assembly by the vendor.

**B. References**

Reference	Title
33-44-00-710-801	Anti-Collision Lights - Operational Test (P/B 501)
WDM 33-44-11	Wiring Diagram Manual

**C. Consumable Materials**

Reference	Description	Specification
C00528	Compound - Corrosion Preventive, Petroleum Hot Application (Soft Film)	MIL-C-11796 Class III
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
4	Lamp assembly	33-44-02-01A-050	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426
		33-44-02-01A-055	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426
		33-44-02-01A-137	LOM 427-434, 437-447, 450-999

**E. Location Zones**

Zone	Area
139	Keel Beam, (Part) Body Station 540.00 to Body Station 727.00



**33-44-02**



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**F. Lower Anti-Collision Light - Lamp Assembly Replacement**

SUBTASK 33-44-02-860-001

- (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>
B	12	C00111	EXTERIOR LIGHTING ANTI COLLISION RED

SUBTASK 33-44-02-960-001

- (2) Do these steps to replace the lamp assembly [4] (WDM 33-44-11):

NOTE: Do not discard the lamp assembly. Refer to the vendor manual for possible repairs. Do the repairs in a shop.

- (a) Loosen the screws [1] and lift away the lens [2].
- (b) Loosen the fastener [3] in the center of the lamp assembly.
- (c) Replace the lamp assembly [4].
- (d) Tighten the fastener [3].
- (e) Put on the lens [2] and tighten the screws [1] with the corrosion-preventive compound, C00528.

**LOM ALL; AIRPLANES WITH AERODYNAMIC SHAPED LIGHT**

- 1) Tighten the screws [1] to a torque of 10 in-lb (1 N·m) (four locations).

**LOM ALL**

- 2) If the lens [2] is dirty, clean it with a clean, soft, dry cotton wiper, G00034.

SUBTASK 33-44-02-860-002

- (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>
B	12	C00111	EXTERIOR LIGHTING ANTI COLLISION RED

SUBTASK 33-44-02-710-001

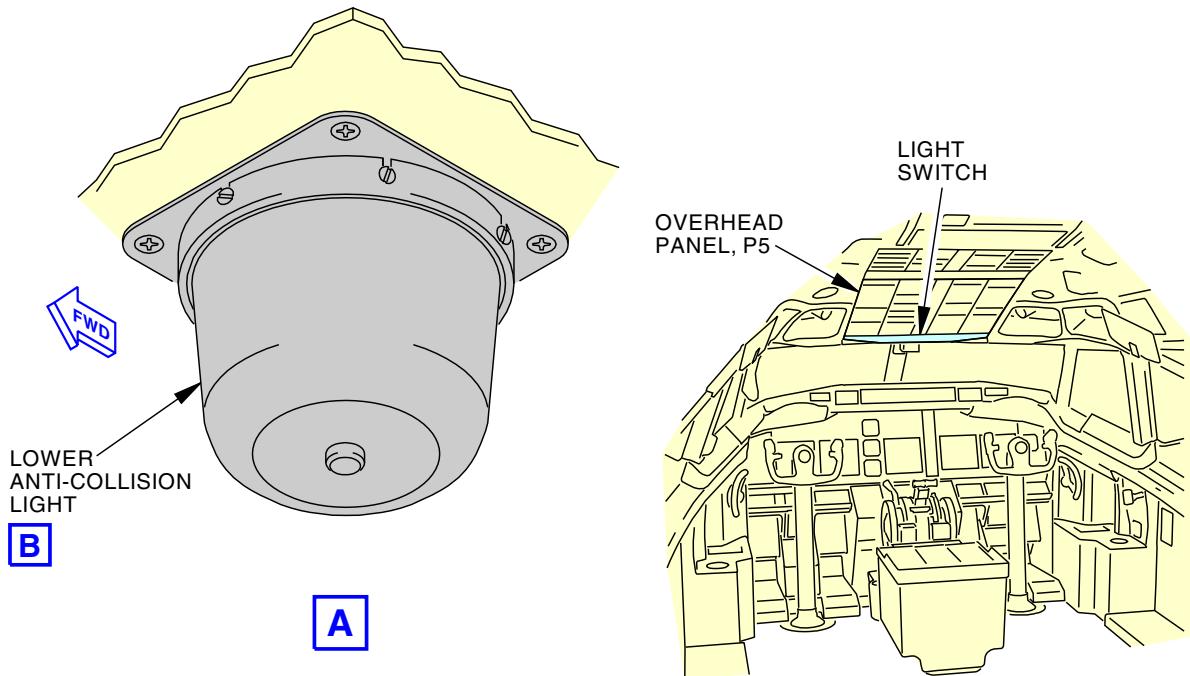
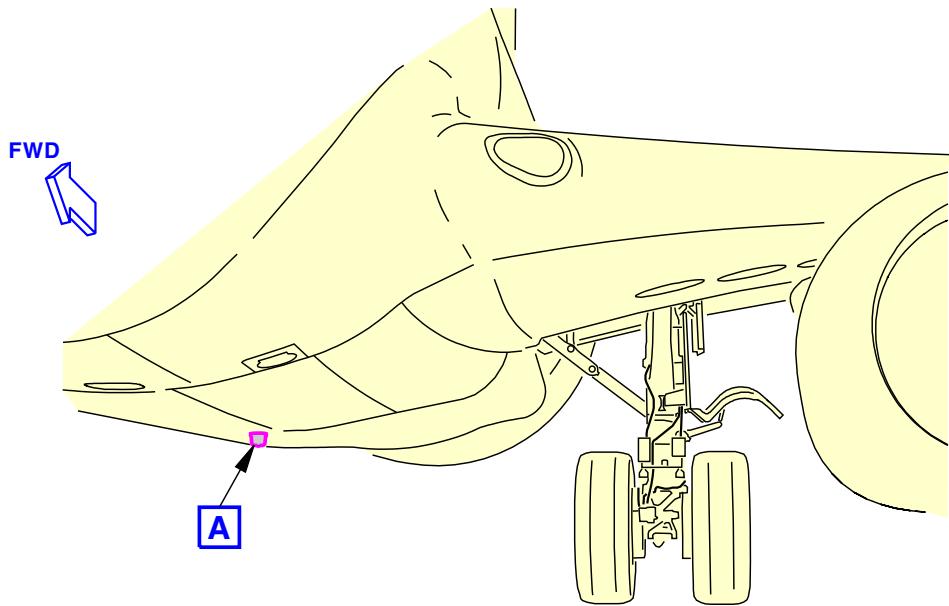
- (4) Do a test of the new lamp assembly [4]:

- (a) At the overhead panel, P5, set the switch for the lower anti-collision light to the on mode.
  - 1) Make sure that the light flashes (TASK 33-44-00-710-801).
- (b) Set the switch to the off mode.
  - 1) Make sure that the light goes off.

———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-44-02**


**FLIGHT COMPARTMENT**

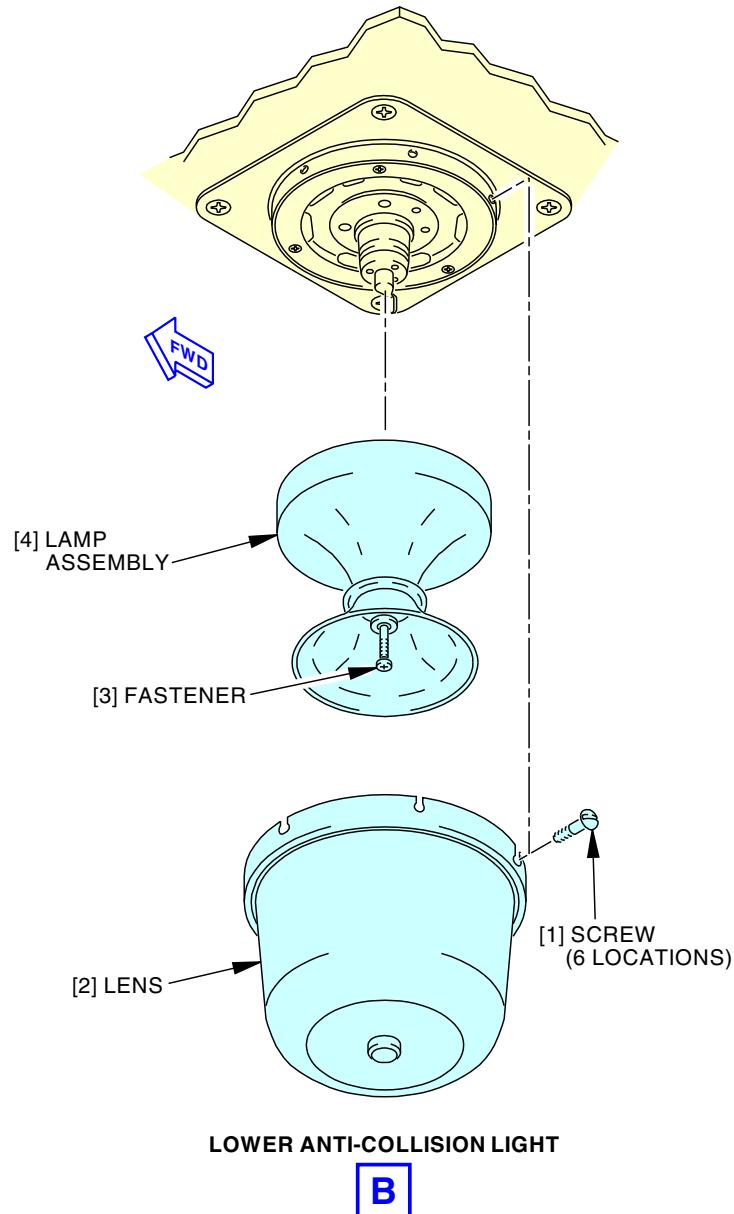
F98279 S0006576264\_V2

**Lower Anti-Collision Light - Lamp Assembly Replacement**  
**Figure 201/33-44-02-990-801 (Sheet 1 of 4)**

EFFECTIVITY  
**LOM ALL; AIRPLANES WITHOUT AERODYNAMIC  
 SHAPED LIGHT**

**33-44-02**

**BOEING**  
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**Lower Anti-Collision Light - Lamp Assembly Replacement**  
Figure 201/33-44-02-990-801 (Sheet 2 of 4)

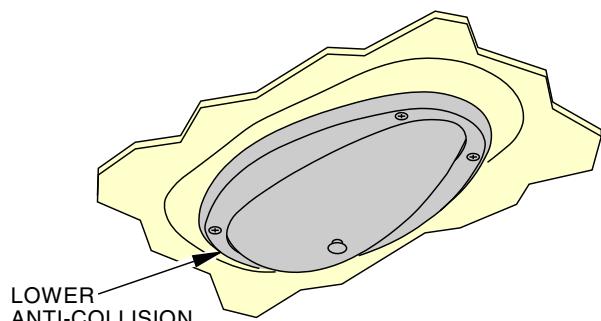
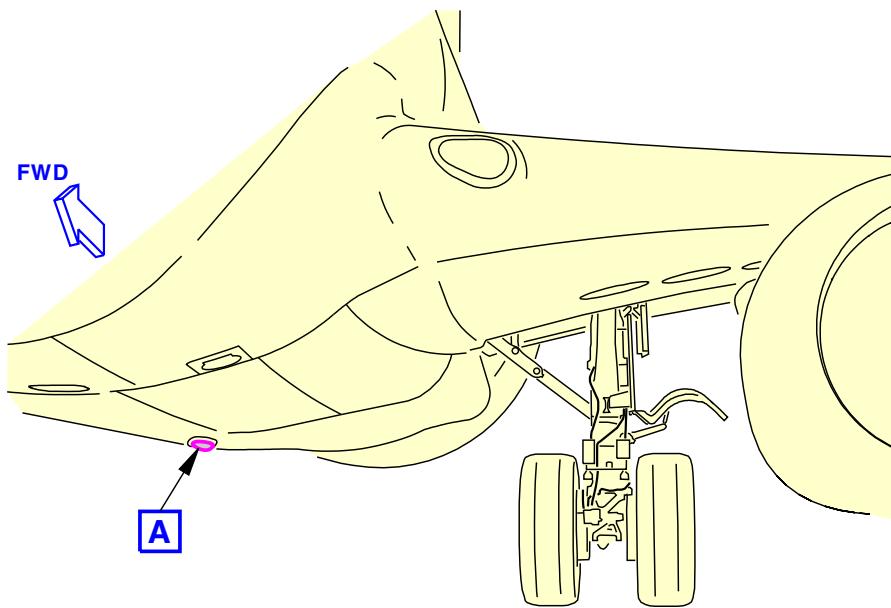
EFFECTIVITY  
LOM ALL; AIRPLANES WITHOUT AERODYNAMIC  
SHAPED LIGHT

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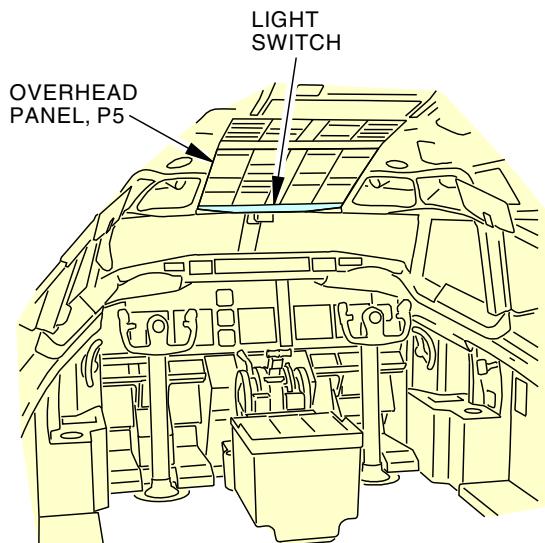
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FWD  
A


**FLIGHT COMPARTMENT**

1981928 S0000383680\_V3

**Lower Anti-Collision Light - Lamp Assembly Replacement**  
**Figure 201/33-44-02-990-801 (Sheet 3 of 4)**

EFFECTIVITY  
**LOM ALL; AIRPLANES WITH AERODYNAMIC  
 SHAPED LIGHT**

D633A101-LOM

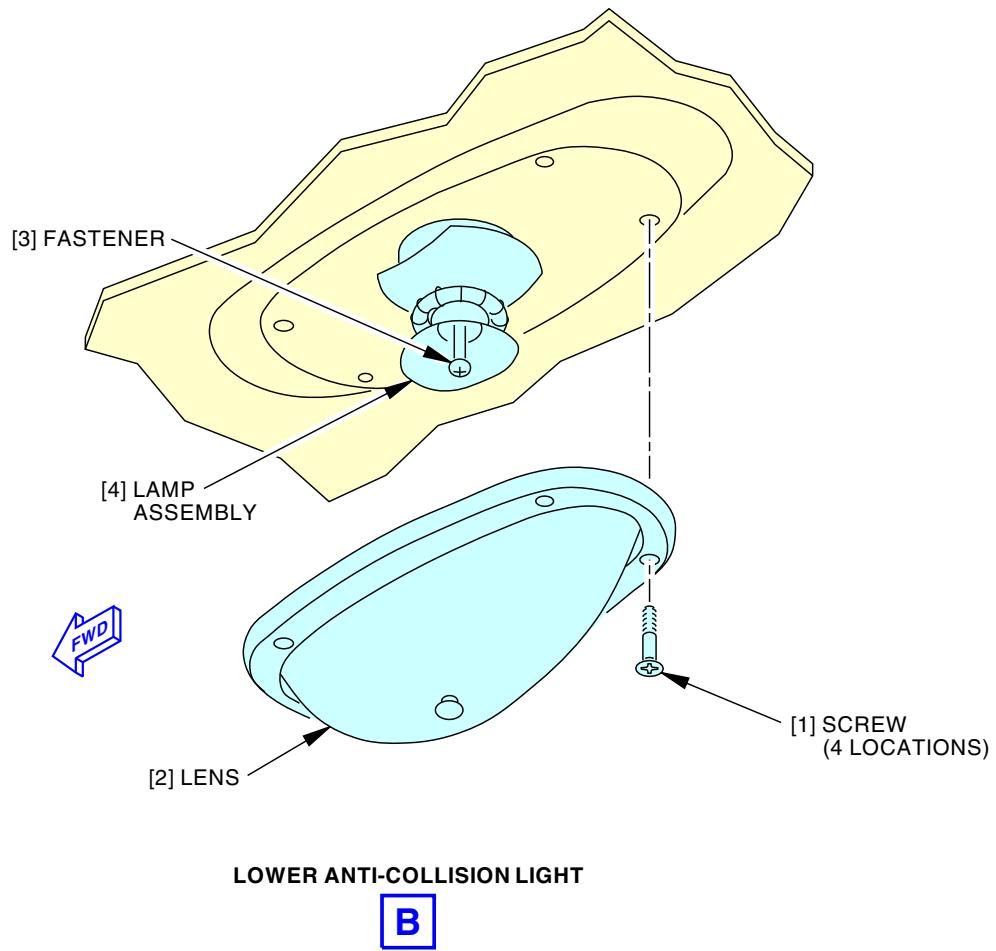
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1982321 S0000383681\_V3

Lower Anti-Collision Light - Lamp Assembly Replacement  
Figure 201/33-44-02-990-801 (Sheet 4 of 4)

EFFECTIVITY  
LOM ALL; AIRPLANES WITH AERODYNAMIC  
SHAPED LIGHT

D633A101-LOM

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**TASK 33-44-02-960-802**

**3. Lower Anti-Collision Light - Light Assembly Replacement**

(Figure 202)

**A. References**

Reference	Title
33-44-00-710-801	Anti-Collision Lights - Operational Test (P/B 501)
51-21-21-100-801	Clean the Surface to be Painted (P/B 701)
51-21-41-370-802	Bonderite M-CR 600 Aero, Bonderite M-CR Alcrm 1200 Aero or Bonderite M-CR 1200S Aero Application Process (P/B 701)
51-21-99-300-801	Decorative Exterior Paint System Application (P/B 701)
51-31-00-390-802	Injection Seal Application (P/B 201)
SWPM 20-20-00	ELECTRICAL BONDING PROCESSES
WDM 33-44-11	Wiring Diagram Manual

**B. Tools/Equipment**

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

Reference	Description
COM-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

**C. Consumable Materials**

Reference	Description	Specification
A00247	Sealant - Pressure And Environmental - Chromate Type	BMS5-95
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
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
C00064	Coating - Aluminum Chemical Conversion	BAC5719 Type II Class A (MIL-DTL-5541 Class 1A)

EFFECTIVITY
LOM ALL



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(Continued)

<b>Reference</b>	<b>Description</b>	<b>Specification</b>
C00528	Compound - Corrosion Preventive, Petroleum Hot Application (Soft Film)	MIL-C-11796 Class III
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	AMS3819 Class 1 Grade A or B Form 1 (Supersede BMS15-5 CLA)
G50365	Agent - Peelable Parting (AC Products - AC962-73C) Production discontinued, use stock until depleted.	BAC5000
G50367	Agent - Peelable Parting (Aztec Chemical AZ 634-2)	MIL-PRF-6799, BAC5000
G50368	Agent - Peelable Parting (Rexco Chemical Company - Partall Coverall Film)	BAC5000

**D. Location Zones**

<b>Zone</b>	<b>Area</b>
139	Keel Beam, (Part) Body Station 540.00 to Body Station 727.00

**E. Lower Anti-Collision Light - Light Assembly Replacement**

SUBTASK 33-44-02-860-005

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

**CAPT Electrical System Panel, P18-3**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
B	12	C00111	EXTERIOR LIGHTING ANTI COLLISION RED

SUBTASK 33-44-02-960-002

- (2) Do these steps to replace the light assembly (WDM 33-44-11):

NOTE: Do not discard the light assembly. Refer to the vendor manual for possible repairs. Do the repairs in a shop.

**LOM ALL; AIRPLANES WITH AERODYNAMIC SHAPED LIGHT**

- (a) Remove the bolts [1] to remove the lens [2].
- (b) Remove the bolts [27].

**LOM ALL; AIRPLANES WITHOUT AERODYNAMIC SHAPED LIGHT**

- (c) Remove the bolts [26].

**LOM ALL**

- (d) Pull down the light assembly [25].
- (e) Disconnect the electrical connector [21].
- (f) Remove the nut [22] and washer [23].
- (g) Lift off the ground wire [24].
- (h) Clean the surface that is left exposed by the light assembly (TASK 51-21-21-100-801).
- (i) If you change the aerodynamic light assembly to the non-aerodynamic light assembly, then do these steps:
  - 1) Apply coating, C00064, to the exposed surface (TASK 51-21-41-370-802).
  - 2) Apply paint to the exposed surface (TASK 51-21-99-300-801).

EFFECTIVITY
LOM ALL

**33-44-02**



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- (j) If you change the non-aerodynamic light assembly to the aerodynamic light assembly, do the following steps:
- 1) Apply AC962-73C peelable parting agent, G50365, AZ 634-2 peelable parting agent, G50367, or Rexco Partall Coverall Film peelable parting agent, G50368 to the panel.
  - 2) Apply an injection seal of sealant, A00247, to the gap between the panels above the light assembly (TASK 51-31-00-390-802).
- NOTE: Only apply sealant, A00247, to the part of the gap that the light assembly mounting base covers.

**LOM ALL; AIRPLANES WITH AERODYNAMIC SHAPED LIGHT**

- (k) If it is necessary, remove the lens [2] from the light assembly [25].
- 1) Loosen the bolts [1] and remove the lens [2].
- NOTE: Do not touch the light assembly lamp or reflector.
- a) Keep the bolts [1] for the installation.

**LOM ALL**

- (l) Connect the ground wire [24] to the light assembly [25] as follows:
- 1) Use cotton wiper, G00034, moist in solvent, B00184, to clean the mating surfaces of the airplane structure, nut [22], washer [23], and ground wire [24].

**LOM ALL; AIRPLANES WITHOUT AERODYNAMIC SHAPED LIGHT**

- 2) Install the nut [22], washer [23] to connect the ground wire [24] to the light assembly [25].
- 3) Tighten the nut [22] to 15 in-lb (1.7 N·m) - 18 in-lb (2.0 N·m).
- 4) Measure the electrical resistance between the ground wire [24] terminal and airplane structure (SWPM 20-20-00).
  - a) Use a non-intrinsically safe bonding meter, COM-614.
  - b) Make sure that the electrical bonding resistance is 0.0005 ohm (0.5 milliohms) or less.
- 5) Measure the electrical resistance between the light assembly [25] housing and airplane structure (SWPM 20-20-00).
  - a) Use a non-intrinsically safe bonding meter, COM-614.
  - b) Make sure that the electrical bonding resistance is 0.0025 ohm (2.5 milliohms) or less.
- 6) Apply a fillet seal of sealant, A50359, to the nut [22], washer [23], and ground wire [24].

**LOM ALL; AIRPLANES WITH AERODYNAMIC SHAPED LIGHT**

- 7) Apply sealant, A50110, or sealant, A50155, or sealant, A50231, or sealant, A50296, to the ground stud, nut [22], washer [23], and ground wire [24].
- 8) Install the nut [22], washer [23] to connect the ground wire [24] to the light assembly [25].
- 9) Tighten the nut [22] to 18 in-lb (2.0 N·m) - 20 in-lb (2.3 N·m).
  - a) Make sure that there is squeeze out around all the interfaces of each component.

EFFECTIVITY  
LOM ALL

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**LOM ALL; AIRPLANES WITH AERODYNAMIC SHAPED LIGHT (Continued)**

- b) Use hand wrench to hold the lower ground stud mounting nut in place when you tighten the nut [22].
- 10) Measure the electrical resistance between the ground wire [24] terminal and airplane structure (SWPM 20-20-00).
  - a) Use a non-intrinsically safe bonding meter, COM-614.
  - b) Make sure that the electrical bonding resistance is 0.001 ohm (1.0 milliohms) or less.

**LOM ALL**

- (m) Connect the electrical connector [21] to the new light assembly.

**LOM ALL; AIRPLANES WITH AERODYNAMIC SHAPED LIGHT**

- (n) Apply AC962-73C peelable parting agent, G50365, AZ 634-2 peelable parting agent, G50367, or Rexco Partall Coverall Film peelable parting agent, G50368, to the panel.
- (o) Apply sealant, A00247, to the fay surface area on the aft side of the light assembly [25] mounting base.

NOTE: The sealant, A00247, must not extend 0.75 in. (1.90 cm) forward of and parallel to the gap between the panels.

- 1) Apply enough sealant, A00247, to fill the entire gap between the light assembly [25] mounting base and panels.

NOTE: Make sure that the drain hole, adjacent to the light assembly, is clear of all sealant.

**LOM ALL**

- (p) Put the light assembly [25] in the opening.

NOTE: A light assembly with an arrow must be installed with the arrow pointed in the correct direction.

**LOM ALL; AIRPLANES WITHOUT AERODYNAMIC SHAPED LIGHT**

- (q) Install the bolts [26] with corrosion-preventative compound, C00528.
- (r) Apply the aerosmoother sealant, A00247, around the base of the light assembly [25].

**LOM ALL; AIRPLANES WITH AERODYNAMIC SHAPED LIGHT**

- (s) Install the bolts [27] with corrosion-preventative, compound, C00528.
  - (t) Apply a filet seal of sealant, A00247, around the base of the light assembly [25].
- NOTE: Make sure that the drain hole, adjacent to the light assembly, is clear of all sealant.
- (u) Do the following steps to install the lens [2]:
    - 1) Use a clean cotton wiper, G00034, soaked with alcohol, B00130, to clean the mating surfaces of the light assembly [25] base.
    - 2) Install the bolts [1] and tighten to a torque of  $10 \pm 1$  in-lb ( $1 \pm 0$  N·m) to install the lens [2].

**LOM ALL**

- (v) If the plug [41] is installed on the bottom of the lens [2], remove and discard the plug [41].

EFFECTIVITY	LOM ALL
-------------	---------

**33-44-02**



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- (w) Make sure that the grommet [42] is not removed.  
NOTE: The opening of the grommet becomes a drain hole.
- (x) If the lens [2] is dirty, clean it with a clean, soft, dry cotton wiper, G00034

SUBTASK 33-44-02-860-006

- (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>
B	12	C00111	EXTERIOR LIGHTING ANTI COLLISION RED

SUBTASK 33-44-02-710-002

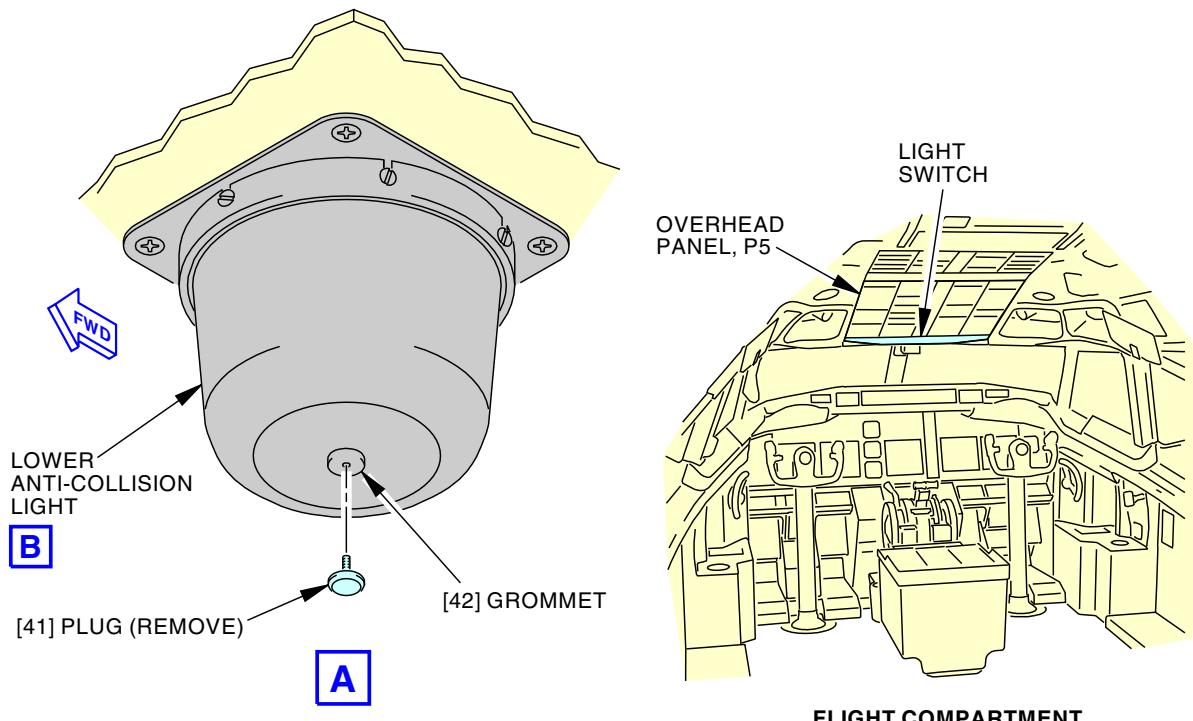
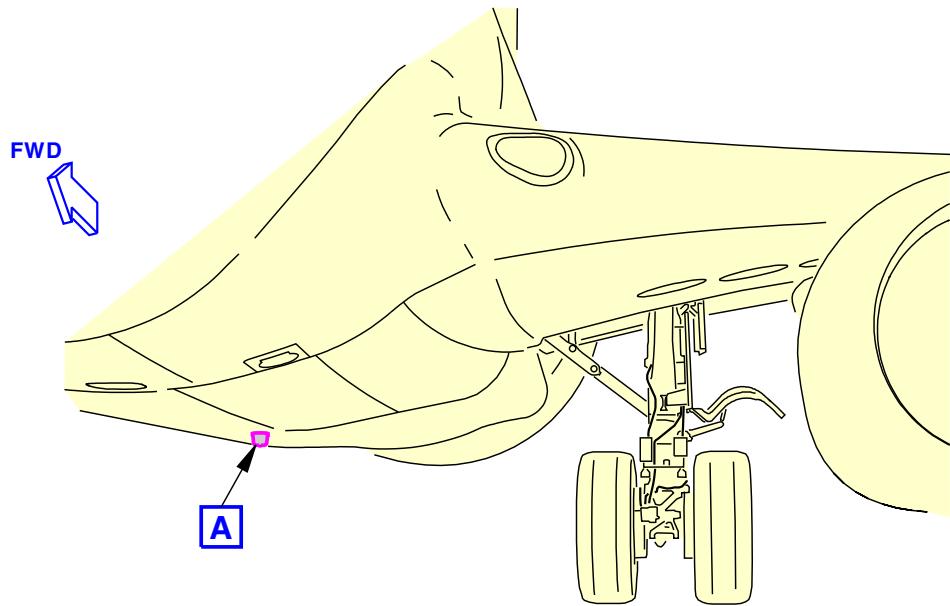
- (4) Do a test of the new light assembly:

- (a) At the overhead panel, P5, set the switch for the lower anti-collision light to the on mode.
  - 1) Make sure that the light flashes (TASK 33-44-00-710-801).
- (b) Set the switch to the off mode.
  - 1) Make sure that the light goes off.

———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-44-02**



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**Lower Anti-Collision Light - Light Assembly Replacement**  
**Figure 202/33-44-02-990-802 (Sheet 1 of 4)**

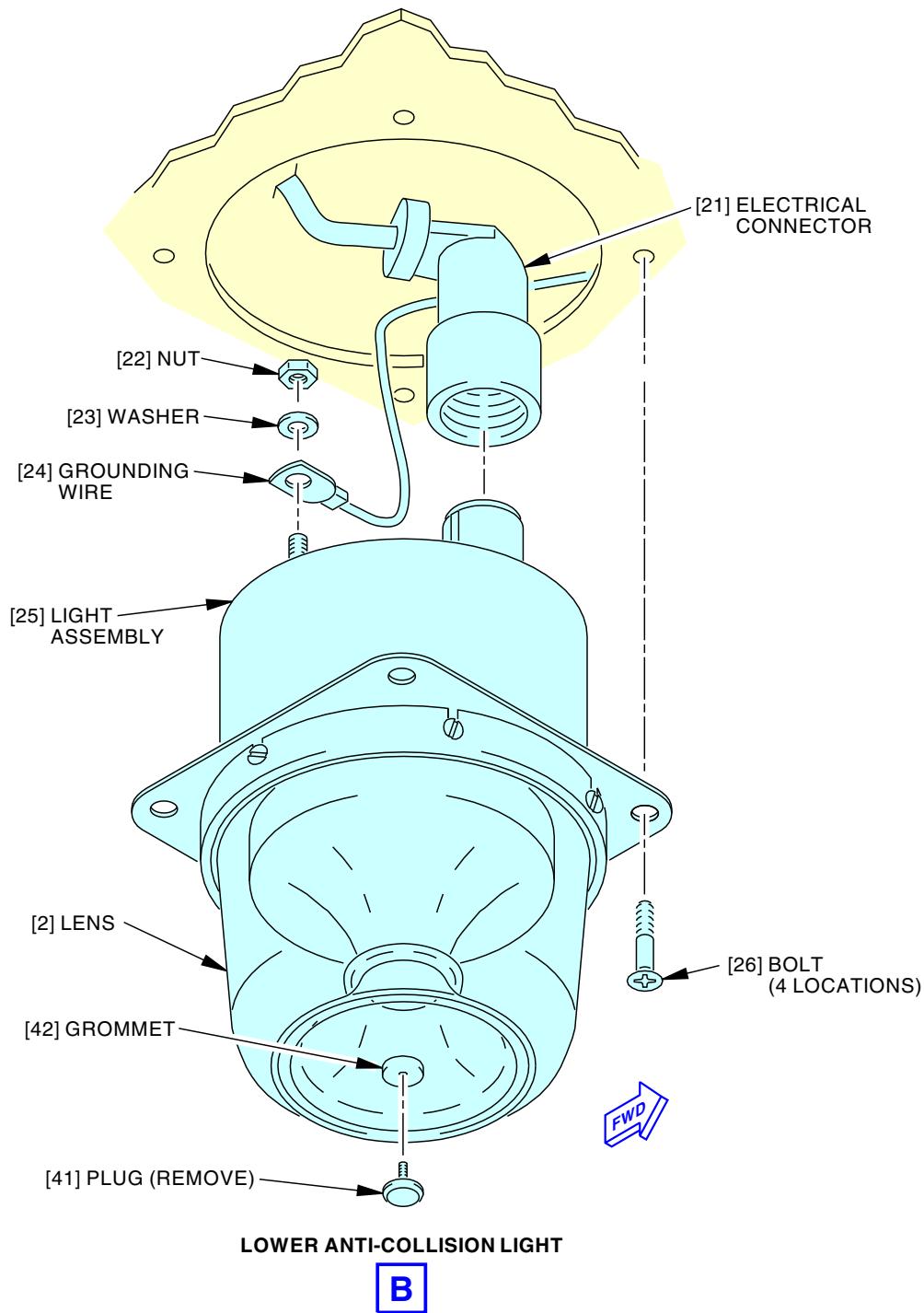
EFFECTIVITY  
**LOM ALL; AIRPLANES WITHOUT AERODYNAMIC  
 SHAPED LIGHT**

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**33-44-02**

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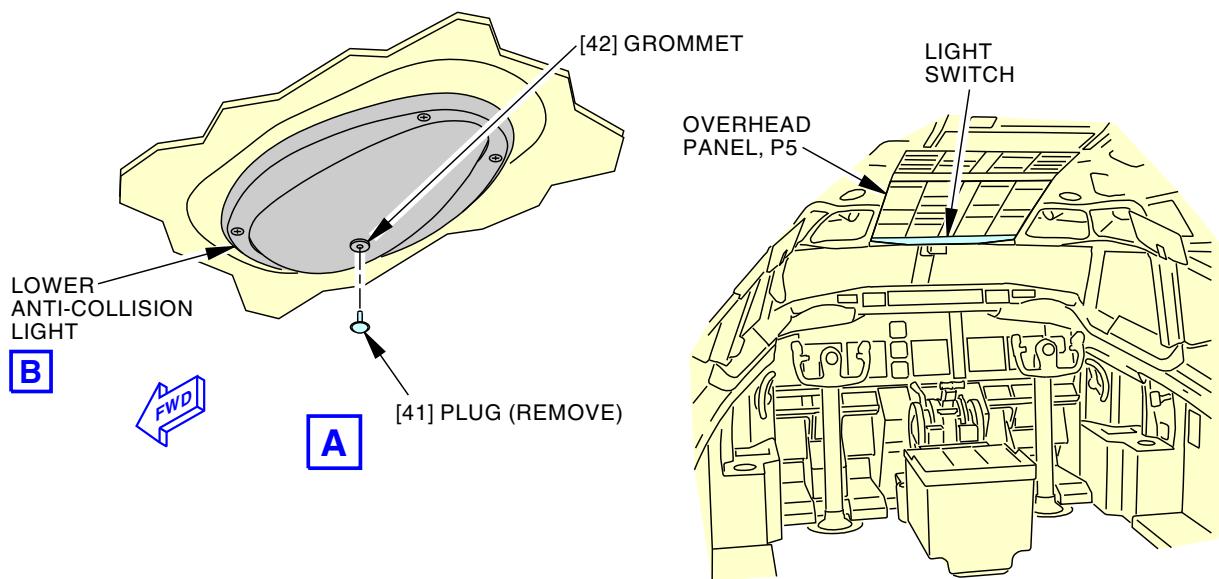
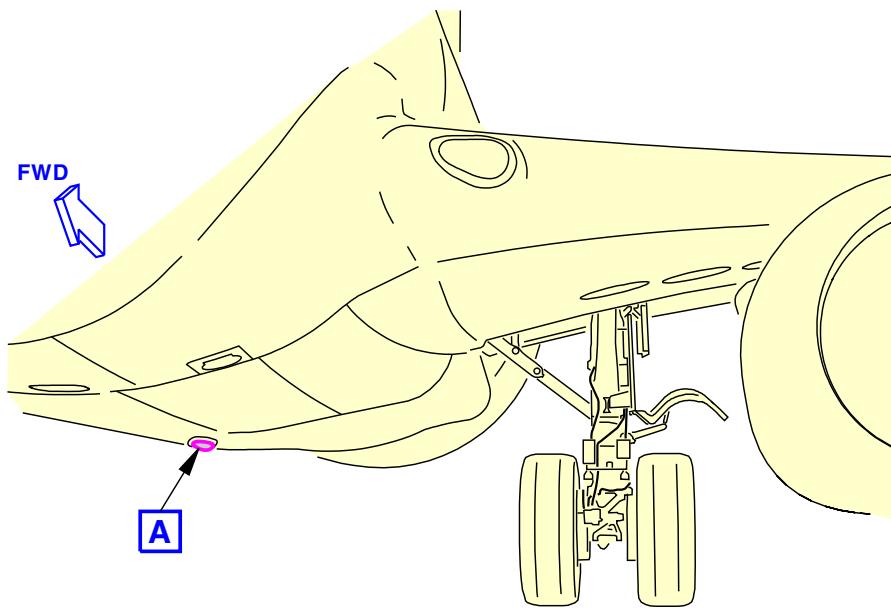
F98427 S0006576268\_V6

**Lower Anti-Collision Light - Light Assembly Replacement**  
**Figure 202/33-44-02-990-802 (Sheet 2 of 4)**

EFFECTIVITY  
**LOM ALL; AIRPLANES WITHOUT AERODYNAMIC  
 SHAPED LIGHT**

**33-44-02**

**BOEING**  
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**FLIGHT COMPARTMENT**

1981922 S0000383683\_V4

**Lower Anti-Collision Light - Light Assembly Replacement**  
**Figure 202/33-44-02-990-802 (Sheet 3 of 4)**

EFFECTIVITY  
**LOM ALL; AIRPLANES WITH AERODYNAMIC  
 SHAPED LIGHT**

D633A101-LOM

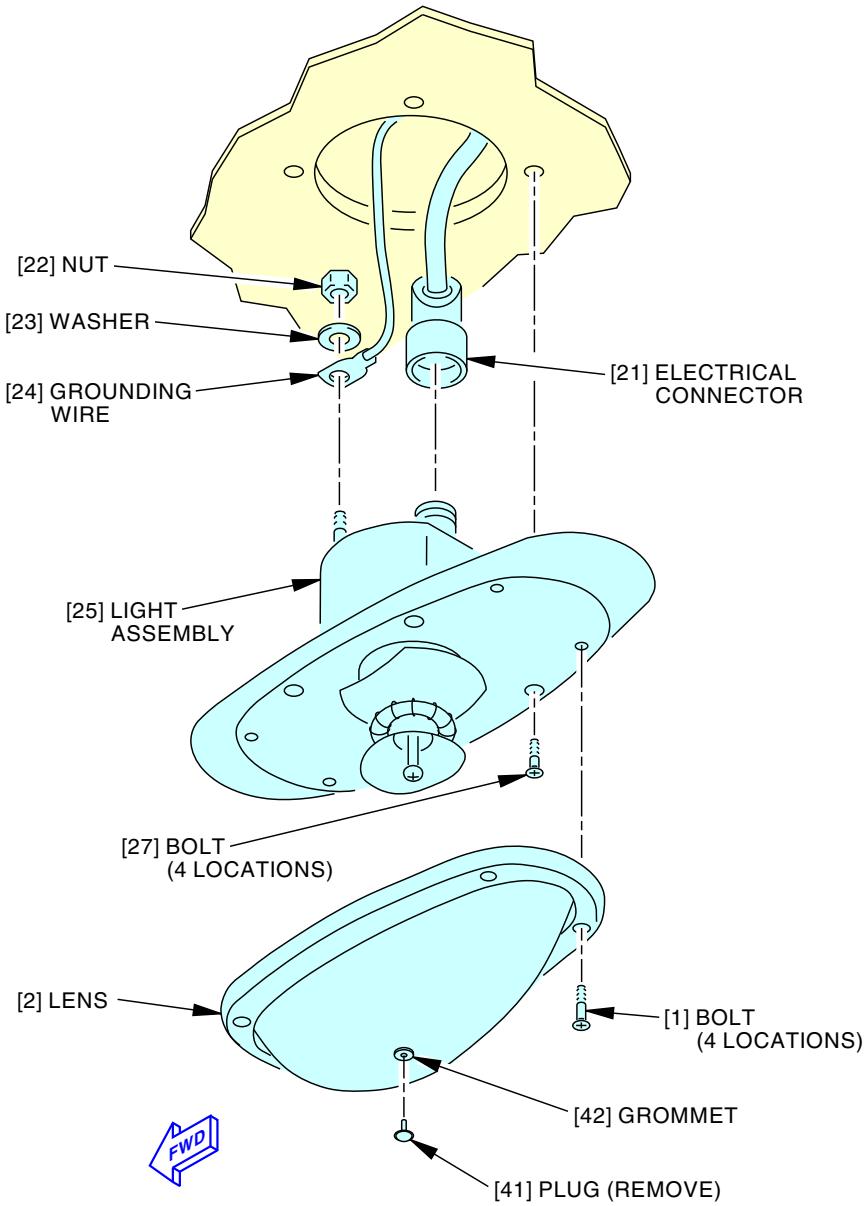
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LOWER ANTI-COLLISION LIGHT

B

1982340 S0000383684\_V7

Lower Anti-Collision Light - Light Assembly Replacement  
Figure 202/33-44-02-990-802 (Sheet 4 of 4)

EFFECTIVITY  
LOM ALL; AIRPLANES WITH AERODYNAMIC  
SHAPED LIGHT

D633A101-LOM

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**TASK 33-44-02-960-803**

**4. Lower Anti-Collision Light - Lens Replacement**

(Figure 203)

**A. Consumable Materials**

Reference	Description	Specification
A00562	Adhesive - High Strength Silicone Rubber, One-Part - RTV157	
C00528	Compound - Corrosion Preventive, Petroleum Hot Application (Soft Film)	MIL-C-11796 Class III
C00954	Primer - Adhesive Bonding - SS4004P RTV	BAC5010 Type 74
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	AMS3819 Class 1 Grade A or B Form 1 (Supersede BMS15-5 CL A)

**B. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
2	Lens	33-44-02-01A-040	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426
		33-44-02-01A-113	LOM 427-434, 437-447, 450-999

**C. Location Zones**

Zone	Area
139	Keel Beam, (Part) Body Station 540.00 to Body Station 727.00

**D. Lower Anti-Collision Light - Lens Replacement**

SUBTASK 33-44-02-860-013

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

**CAPT Electrical System Panel, P18-3**

Row	Col	Number	Name
B	12	C00111	EXTERIOR LIGHTING ANTI COLLISION RED

SUBTASK 33-44-02-960-003

- (2) Do these steps to replace the lens:

- Loosen the screws [1] and lift off the lens [2].
- Put on the new lens [2] and tighten the screws [1] with the corrosion-preventive compound, C00528.

**LOM ALL; AIRPLANES WITH AERODYNAMIC SHAPED LIGHT**

- Tighten the screws [1] to 10 in-lb (1 N·m).

**LOM ALL**

- Make sure that the grommet [42] is not removed.

NOTE: The opening of the grommet becomes a drain hole.

- If necessary, replace the grommet [42].
  - Remove the grommet [42].

EFFECTIVITY
LOM ALL

**33-44-02**



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DO NOT GET PRIMER IN YOUR MOUTH, EYES, OR ON YOUR SKIN. DO NOT BREATHE THE FUMES FROM PRIMER. PUT ON GOGGLES, AND GLOVES WHEN YOU USE PRIMER. PRIMER IS POISONOUS AND CAN CAUSE INJURIES TO PERSONNEL AND DAMAGE TO EQUIPMENT.



KEEP PRIMER AWAY FROM THE FLAME AND HEAT. PRIMER IS FLAMMABLE AND CAN CAUSE INJURIES TO PERSONNEL AND DAMAGE TO EQUIPMENT.

- b) Apply the SS4004P RTV primer, C00954, to the grommet hole and the lip of the new lens.



DO NOT GET ADHESIVE IN YOUR MOUTH, EYES, OR ON YOUR SKIN. DO NOT BREATHE THE FUMES FROM ADHESIVE. PUT ON GOGGLES, AND GLOVES WHEN YOU USE ADHESIVE. ADHESIVE IS POISONOUS AND CAN CAUSE INJURIES TO PERSONNEL AND DAMAGE TO EQUIPMENT.



KEEP ADHESIVE AWAY FROM THE FLAME AND HEAT. ADHESIVE IS FLAMMABLE AND CAN CAUSE INJURIES TO PERSONNEL AND DAMAGE TO EQUIPMENT.

- c) Apply the RTV157 adhesive, A00562, to the new grommet [42] and install in the new lens.
- d) Install the grommet [42].
- 4) If the plug [41] is installed on the bottom of the lens [2], remove and discard the plug [41].
- 5) Make sure that the grommet [42] is not removed.

NOTE: The opening of the grommet becomes a drain hole.

- 6) If the lens [2] is dirty, clean it with a clean, soft, dry cotton wiper, G00034.

SUBTASK 33-44-02-860-014

- (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>
B	12	C00111	EXTERIOR LIGHTING ANTI COLLISION RED

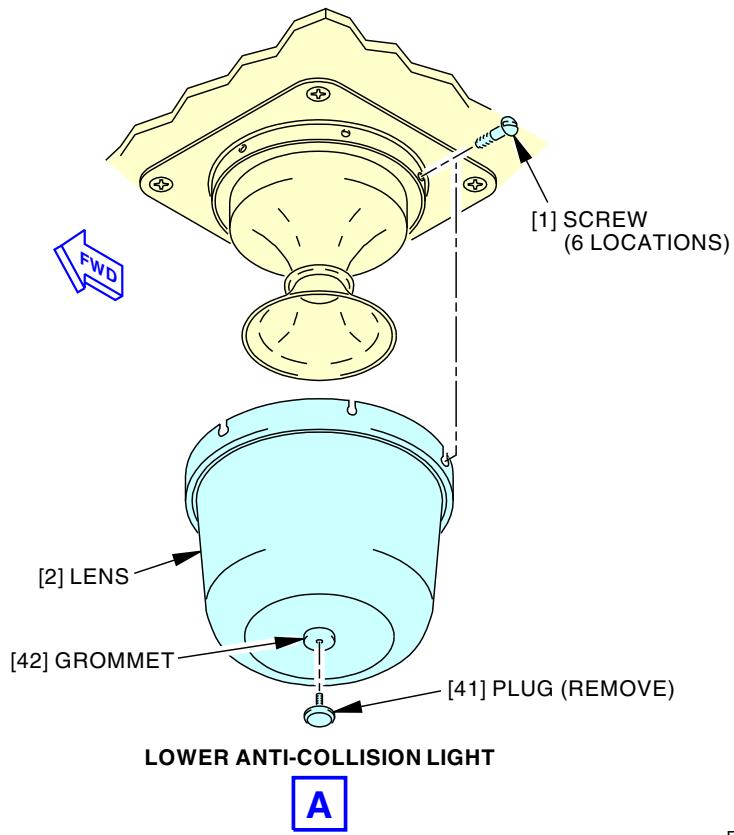
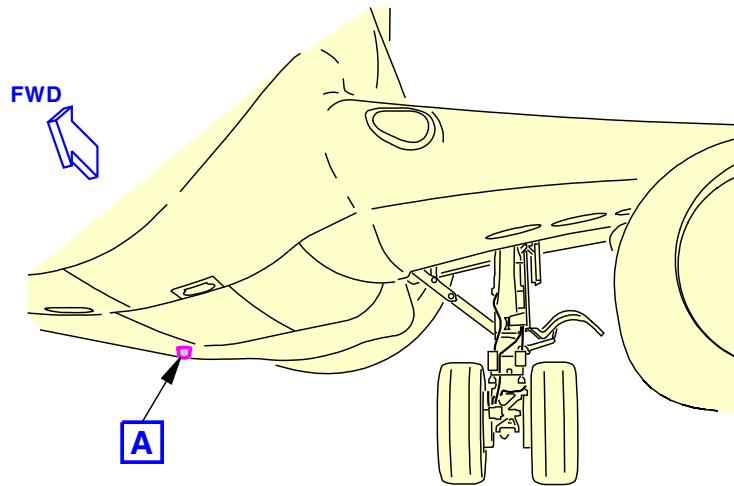
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EFFECTIVITY  
LOM ALL

**33-44-02**



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F98561 S0006576270\_V3

**Lower Anti-Collision Light - Lens Replacement**  
**Figure 203/33-44-02-990-803 (Sheet 1 of 2)**

EFFECTIVITY  
LOM ALL; AIRPLANES WITHOUT AERODYNAMIC  
SHAPED LIGHT

**33-44-02**

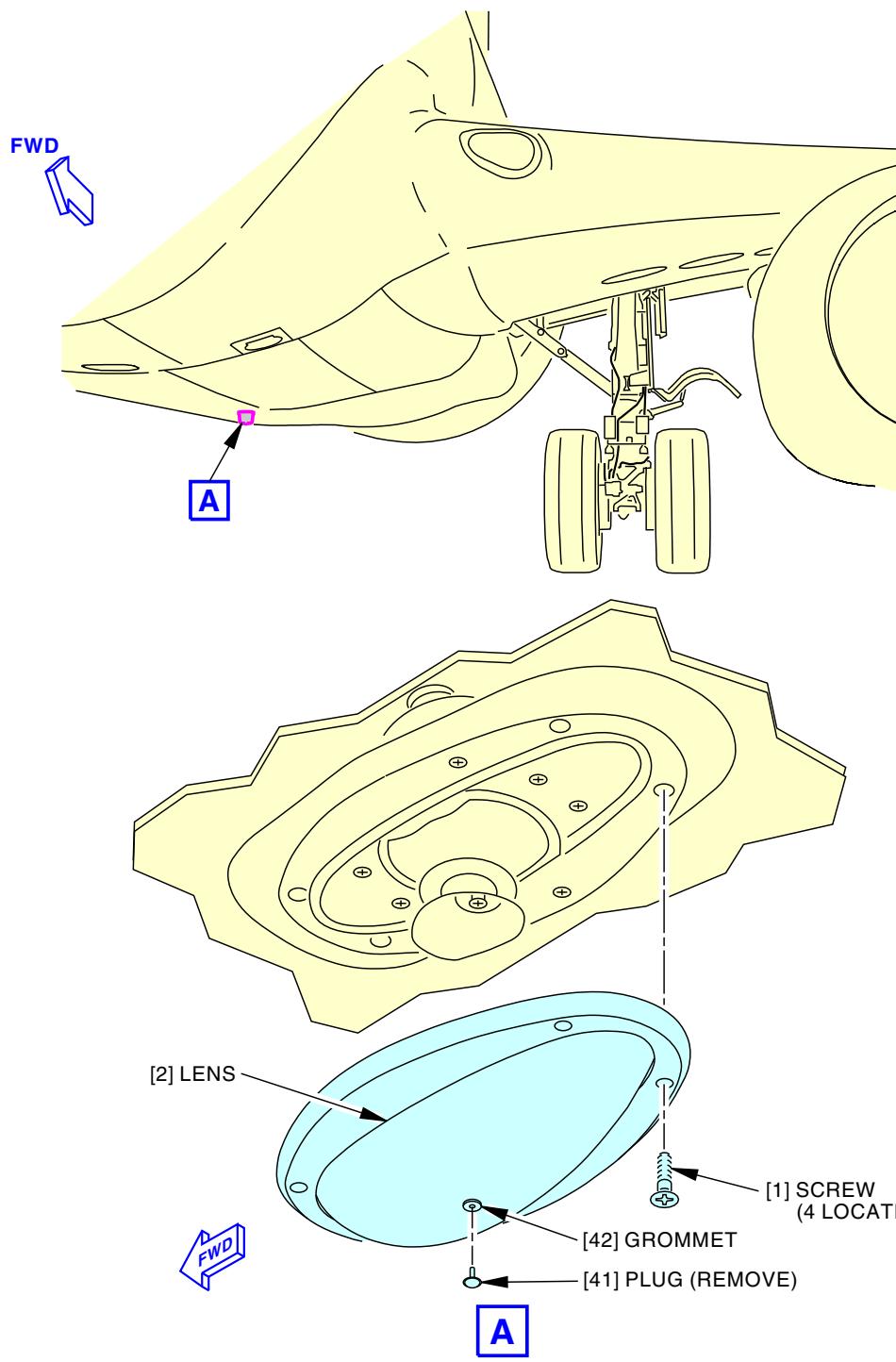
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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AIRCRAFT MAINTENANCE MANUAL



1981930 S0000383685\_V5

Lower Anti-Collision Light - Lens Replacement  
Figure 203/33-44-02-990-803 (Sheet 2 of 2)

EFFECTIVITY  
LOM ALL; AIRPLANES WITH AERODYNAMIC  
SHAPED LIGHT

**33-44-02**

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details



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**TASK 33-44-02-960-804**

**5. Lower Anti-Collision Light - Power Supply Replacement**

(Figure 204)

**A. General**

- (1) This task provides instruction to replace power supply for the lower anti-collision light assembly.

**B. References**

Reference	Title
33-44-00-710-801	Anti-Collision Lights - Operational Test (P/B 501)
51-31-00-160-801	Prepare For Sealing (P/B 201)
51-31-00-390-804	Fillet Seal Application (P/B 201)
SWPM 20-20-00	ELECTRICAL BONDING PROCESSES
WDM 33-44-11	Wiring Diagram Manual

**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

**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
C00064	Coating - Aluminum Chemical Conversion	BAC5719 Type II Class A (MIL-DTL-5541 Class 1A)
C00259	Coating - Chemical And Solvent Resistant Finish, Corrosion Inhibiting Primer	BMS10-11 Type I
G50961	Coating - Corrosion Inhibiting Epoxy Primer - (BAC 377 Yellow Color)	BMS10-11 Type I

**E. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
62	Power supply	33-44-02-02A-005	LOM 402, 404, 406



**33-44-02**



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(Continued)

AMM Item	Description	AIPC Reference	AIPC Effectivity
62 (cont.)		33-44-02-02C-005	LOM 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-999

**F. Location Zones**

Zone	Area
139	Keel Beam, (Part) Body Station 540.00 to Body Station 727.00

**G. Access Panels**

Number	Name/Location
192BL	ECS Ram Air Inlet Mixing Duct Panel - Forward

**H. Lower Anti-Collision Light Power Supply Replacement**

SUBTASK 33-44-02-860-009

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

**CAPT Electrical System Panel, P18-3**

Row	Col	Number	Name
B	12	C00111	EXTERIOR LIGHTING ANTI COLLISION RED

SUBTASK 33-44-02-010-001

- (2) Open this access panel:

**Number Name/Location**

192BL ECS Ram Air Inlet Mixing Duct Panel - Forward

SUBTASK 33-44-02-960-004



**WARNING**

DO NOT TOUCH THE POWER SUPPLY FOR THREE MINUTES AFTER YOU REMOVE ELECTRICAL POWER. AN ELECTRICAL SHOCK CAN CAUSE INJURY TO PERSONS OR DAMAGE TO EQUIPMENT

- (3) Do these steps to replace the power supply [62] (WDM 33-44-11):

NOTE: Do not discard the power supply. Usually, you can repair it with a new capacitor assembly. Do the repairs in a shop.

- (a) Disconnect the electrical connectors [63].
- (b) Loosen the fasteners [61] on the power supply [62].
- (c) Remove the sealant between the power supply [62] and structure (TASK 51-31-00-160-801).
- (d) Remove the power supply [62].
- (e) Clean the fay surface contact areas on the support bracket and power supply [62] with abrasive (SWPM 20-20-00).
- (f) Refinish the metal surfaces.
  - 1) Apply a layer of coating, C00064, to the surface contact areas on the support bracket and power supply [62].
  - 2) Apply a layer of primer, C00259, or coating, G50961, to the surface contact areas on the support bracket and power supply [62].
- (g) Apply a thin layer of sealant, A50155, sealant, A50110, sealant, A50231, or sealant, A50296, to the fay surface ground areas on the bracket and new power supply [62].

EFFECTIVITY  
LOM ALL

**33-44-02**



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- (h) Install the new power supply [62].
- (i) Tighten the fasteners [61] to  $20 \pm 2$  in-lb ( $2.26 \pm 0.23$  N·m).
- (j) Connect the electrical connectors [63] to the new power supply [62].
- (k) Measure the electrical bonding resistance between the power supply [62] and fuselage (SWPM 20-20-00).
  - 1) Use an intrinsically safe approved bonding meter, COM-1550.
  - 2) Make sure that the bonding resistance is 0.0005 ohms (0.5 milliohms) or less.
- (l) Apply a fillet seal around the power supply [62] (TASK 51-31-00-390-804).

SUBTASK 33-44-02-410-001

- (4) Close this access panel:

**Number      Name/Location**

192BL      ECS Ram Air Inlet Mixing Duct Panel - Forward

SUBTASK 33-44-02-860-010

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

**CAPT Electrical System Panel, P18-3**

**Row    Col    Number    Name**

B	12	C00111	EXTERIOR LIGHTING ANTI COLLISION RED
---	----	--------	--------------------------------------

SUBTASK 33-44-02-710-003

- (6) Do a test of the new power supply [62]:

- (a) At the overhead panel, P5, set the switch for the lower anti-collision light to the on mode.
  - 1) Make sure that the light flashes (TASK 33-44-00-710-801).
- (b) Set the switch to the off mode.
  - 1) Make sure that the light goes off.

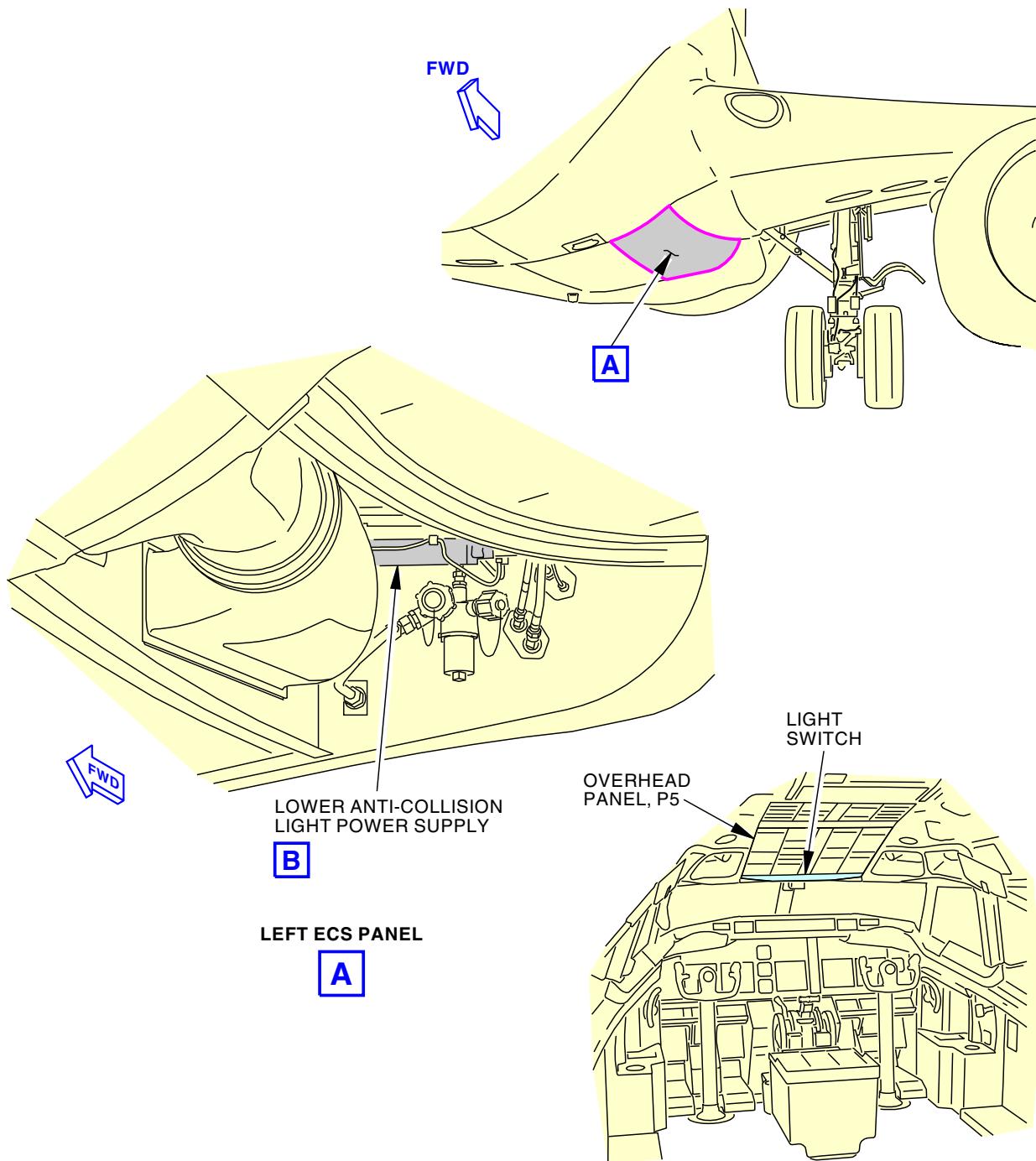
———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-44-02**



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FLIGHT COMPARTMENT

F98999 S0006576272\_V2

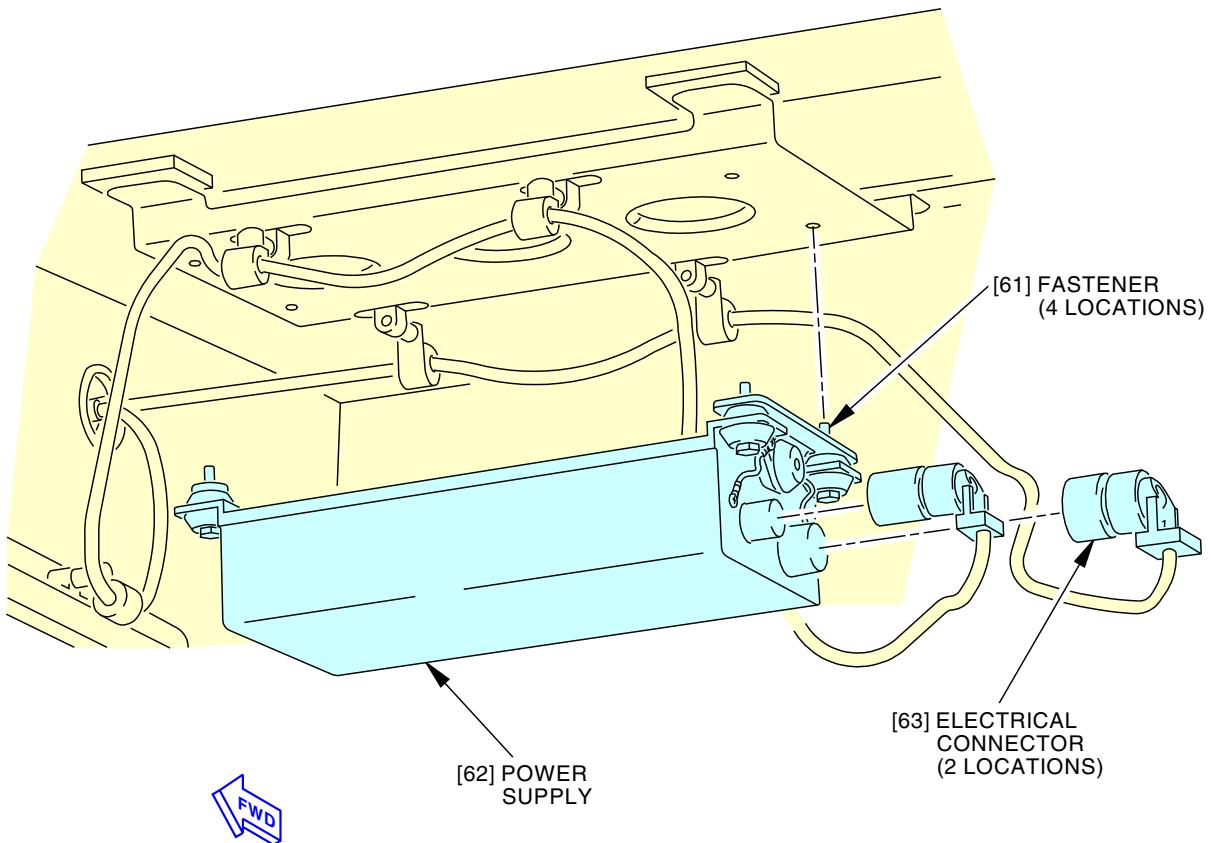
Lower Anti-Collision Light - Power Supply Replacement  
Figure 204/33-44-02-990-804 (Sheet 1 of 2)

EFFECTIVITY  
LOM ALL

**33-44-02**



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LOWER ANTI-COLLISION LIGHT POWER SUPPLY

B

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Lower Anti-Collision Light - Power Supply Replacement  
Figure 204/33-44-02-990-804 (Sheet 2 of 2)

EFFECTIVITY  
LOM ALL

**33-44-02**

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TAIL ANTI-COLLISION LIGHT - MAINTENANCE PRACTICES

**1. General**

- A. This procedure has these tasks:
- (1) Tail Anti-Collision Light - Lamp Replacement
  - (2) Tail Anti-Collision Light - Light Assembly Replacement
  - (3) Tail Anti-Collision Light - Lens Replacement.

**TASK 33-44-04-960-801**

**2. Tail Anti-Collision Light - Lamp Replacement**

(Figure 201)

**A. References**

Reference	Title
20-10-44-000-801	Lockwire, Cotter Pins, and Lockrings - Removal (P/B 401)
20-10-44-400-801	Lockwire, Cotter Pins, and Lockrings - Installation (P/B 401)
33-44-00-710-801	Anti-Collision Lights - Operational Test (P/B 501)
WDM 33-44-12	Wiring Diagram Manual

**B. Tools/Equipment**

Reference	Description
STD-858	Tag - DO NOT OPERATE

**C. Consumable Materials**

Reference	Description	Specification
A50231	Sealant - Pressure And Environmental - Chromate Type	BMS5-95 Class B
C00528	Compound - Corrosion Preventive, Petroleum Hot Application (Soft Film)	MIL-C-11796 Class III
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	AMS3819 Class 1 Grade A or B Form 1 (Supersedes BMS15-5 CL A)
G50435	Lockwire - Safety and Lock, 0.813mm (0.032 inch) brass	ASTM B134
G50933	Cloth - Cleaning, Low-Lint Cloth (General Use)	A-A-59323 Type II (Supersedes MIL-C-85043)

**D. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Lamp	33-44-04-01-030	LOM ALL
		33-44-04-01-275	LOM 437-447, 450-999
2	Gasket	33-44-04-01-025	LOM ALL
		33-44-04-01-185	LOM 437-447, 450-999

**E. Location Zones**

Zone	Area
310	Fuselage - Body Station 1016.00 to Body Station 1217.00



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F. Tail Anti-Collision Light Lamp Replacement

SUBTASK 33-44-04-860-001

- (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>
B	13	C00115	EXT LIGHTING ANTI COLLISION WHITE

SUBTASK 33-44-04-040-001

- (2) Make sure that the Auxiliary Power Unit (APU) master switch, on the P5 forward overhead panel, is in the OFF position.
- (a) Install the DO NOT OPERATE tag, STD-858, on the APU master switch.

SUBTASK 33-44-04-860-011

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

**F/O Electrical System Panel, P6-2**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	19	C01344	APU FIRE SW POWER

**F/O Electrical System Panel, P6-4**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	14	C00033	AUX POWER UNIT CONT

SUBTASK 33-44-04-960-003



DO NOT TOUCH THE LIGHT WITH YOUR BARE HANDS UNTIL THE LIGHT IS OFF FOR A MINIMUM OF FIVE MINUTES. DURING THIS TIME, THE LIGHT IS HOT. THE LIGHT CAN BURN YOUR SKIN OR CAUSE AN ELECTRICAL SHOCK.



WHEN YOU REMOVE AN ELECTROSTATIC DISCHARGE SENSITIVE (ESDS) UNIT, MAKE SURE YOU PUT COVERS ON THE ELECTRICAL CONNECTORS. USE ELECTROSTATIC DISCHARGE (ESD) SAFE DUST CAPS. IF THE CONNECTORS DO NOT HAVE COVERS ON THEM, INJURY TO PERSONS AND DAMAGE TO THE COMPONENT CAN OCCUR.

- (4) Do these steps to replace the lamp (WDM 33-44-12):

- (a) If it is necessary, remove the over-run sealant between the retainer of the lens [3] and the housing interface.
- (b) Remove the screws [4] and pull off the lens [3].

**LOM ALL; AIRPLANES WITH P/N: 30-0909-301**

- (c) Remove the pan head screw [5] and disconnect the ground wire [7].
- (d) Remove the two pan head screws [6] from the lamp [1].

**LOM ALL; AIRPLANES WITH P/N: 30-0909-201**

- (e) Remove the lockwire from each end of the lamp [1] (TASK 20-10-44-000-801).

**LOM ALL**

EFFECTIVITY  
LOM ALL

**33-44-04**

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**CAUTION**  
DO NOT TOUCH THE LAMP WITH YOUR BARE SKIN. USE A LOW-LINT CLOTH TO HOLD THE LAMP. IF YOUR SKIN TOUCHES THE LAMP, YOU WILL DECREASE THE LAMPS LIFE.

- (f) Replace the lamp [1].

- 1) Use a low-lint cleaning cloth, G50933, to replace the lamp [1].

**LOM ALL; AIRPLANES WITH P/N: 30-0909-201**

- (g) Install the brass lockwire, G50435, between the lamp [1] and the lamp receptacle (TASK 20-10-44-400-801).

**LOM ALL; AIRPLANES WITH P/N: 30-0909-301**

- (h) Install the two pan head screws [6] on the lamp [1].  
(i) Attach the ground wire [7] to the lamp housing and install the pan head screw [5].

**LOM ALL**

- (j) Examine the gasket [2].  
1) If the gasket [2] is damaged or worn, do one of the following:  
a) Replace the gasket [2] (refer to the applicable vendor's instructions).  
NOTE: This procedure will take more than 4 hours to do.  
b) Replace the lens [3] assembly. Do this task: TASK 33-44-04-960-803.  
(k) Put on the lens [3].  
1) Install the screws [4] with the corrosion-preventive compound, C00528.  
(l) Apply an aerodynamic seal to fill the gap between the housing [24] and the light assembly [22] housing with sealant, A50231  
(m) If the lens [3] is dirty, clean it with a clean, soft, dry cotton wiper, G00034.

SUBTASK 33-44-04-860-002

- (5) 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>
B	13	C00115	EXT LIGHTING ANTI COLLISION WHITE

SUBTASK 33-44-04-860-014

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

**F/O Electrical System Panel, P6-2**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	19	C01344	APU FIRE SW POWER

**F/O Electrical System Panel, P6-4**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	14	C00033	AUX POWER UNIT CONT

SUBTASK 33-44-04-020-003

- (7) Remove the DO NOT OPERATE tag from the APU master switch on the P5 forward overhead panel.

EFFECTIVITY  
**LOM ALL**

**33-44-04**



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SUBTASK 33-44-04-710-001

- | (8) Do a test of the new lamp [1].
- (a) Set the switch for the tail anti-collision light, on the P5 overhead panel, to the on mode.
    - 1) Make sure that the light flashes (TASK 33-44-00-710-801).
  - (b) Set the switch to the off mode.
    - 1) Make sure that the light goes off.

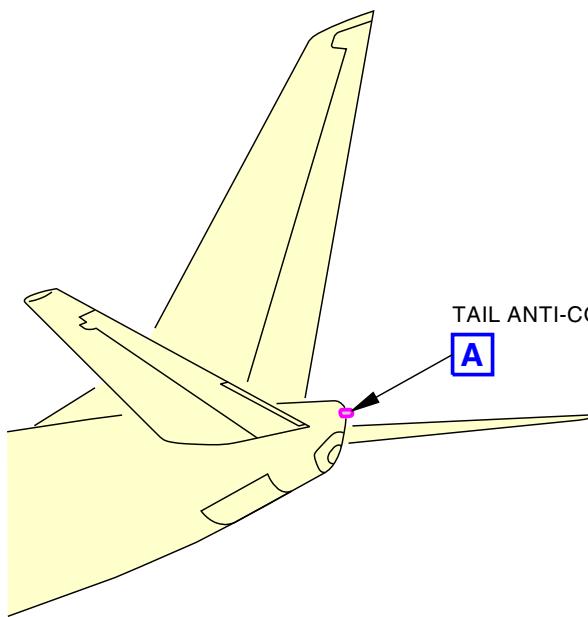
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— EFFECTIVITY —  
LOM ALL

**33-44-04**

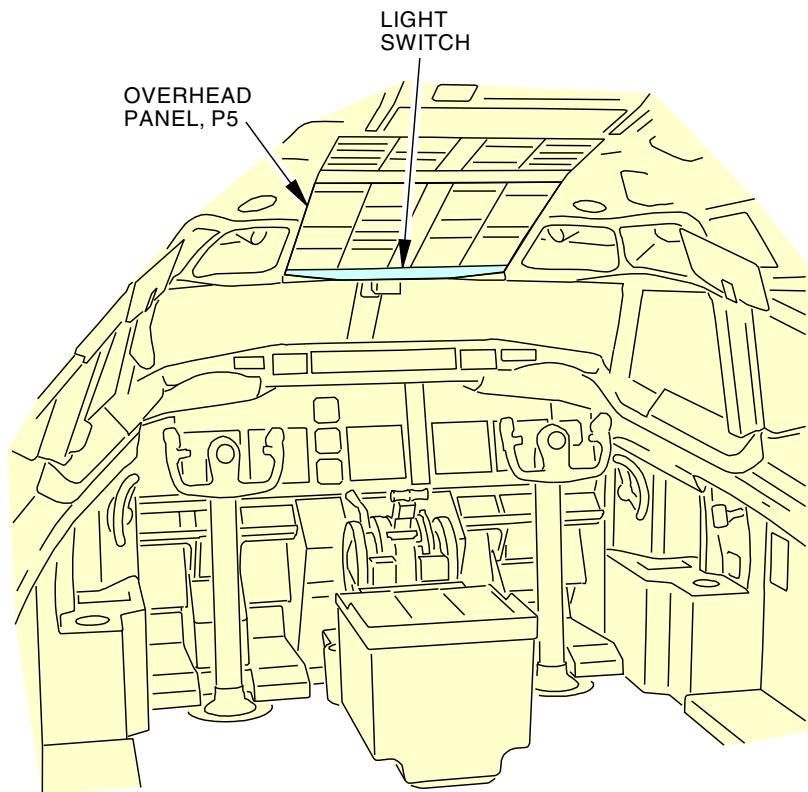


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TAIL ANTI-COLLISION LIGHT

A



OVERHEAD  
PANEL, P5

LIGHT  
SWITCH

FLIGHT COMPARTMENT

F99174 S0006576292\_V2

**Tail Anti-Collision Light - Lamp Replacement**  
**Figure 201/33-44-04-990-801 (Sheet 1 of 5)**

EFFECTIVITY  
LOM ALL

**33-44-04**

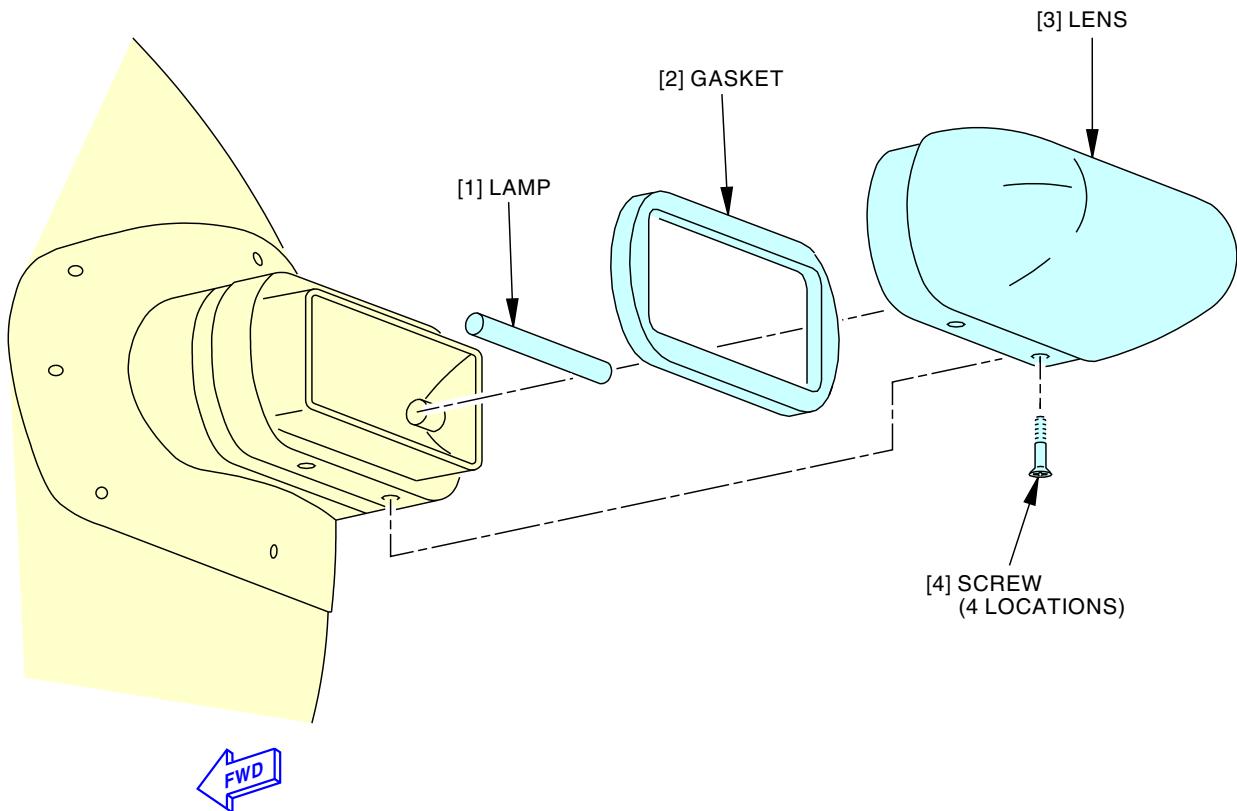
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F99218 S0006576293\_V2

Tail Anti-Collision Light - Lamp Replacement  
Figure 201/33-44-04-990-801 (Sheet 2 of 5)

EFFECTIVITY  
LOM 420 PRE SB 737-33-1146; AIRPLANES WITH  
P/N: 30-0909-201

D633A101-LOM

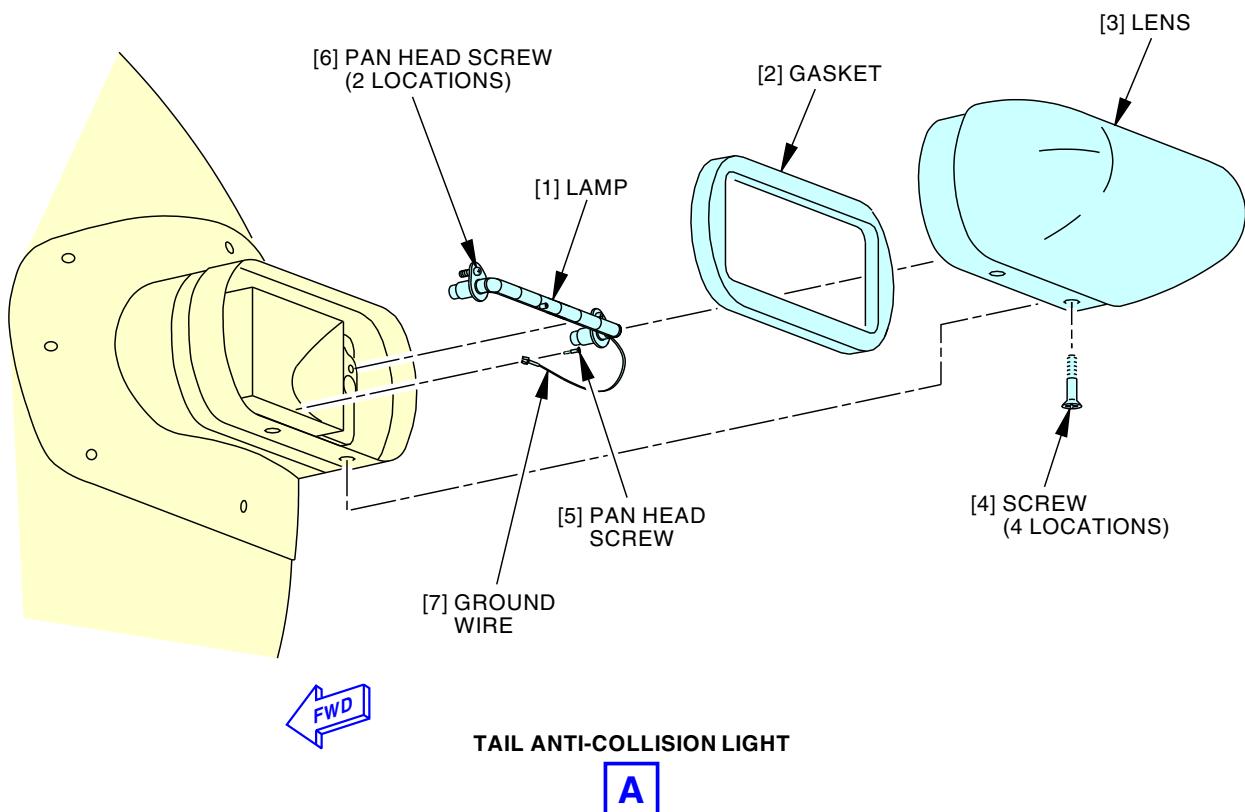
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3030852 S0000800117\_V1

Tail Anti-Collision Light - Lamp Replacement  
Figure 201/33-44-04-990-801 (Sheet 3 of 5)

EFFECTIVITY  
LOM 420 PRE SB 737-33-1146; AIRPLANES WITH  
P/N: 30-0909-301

**33-44-04**

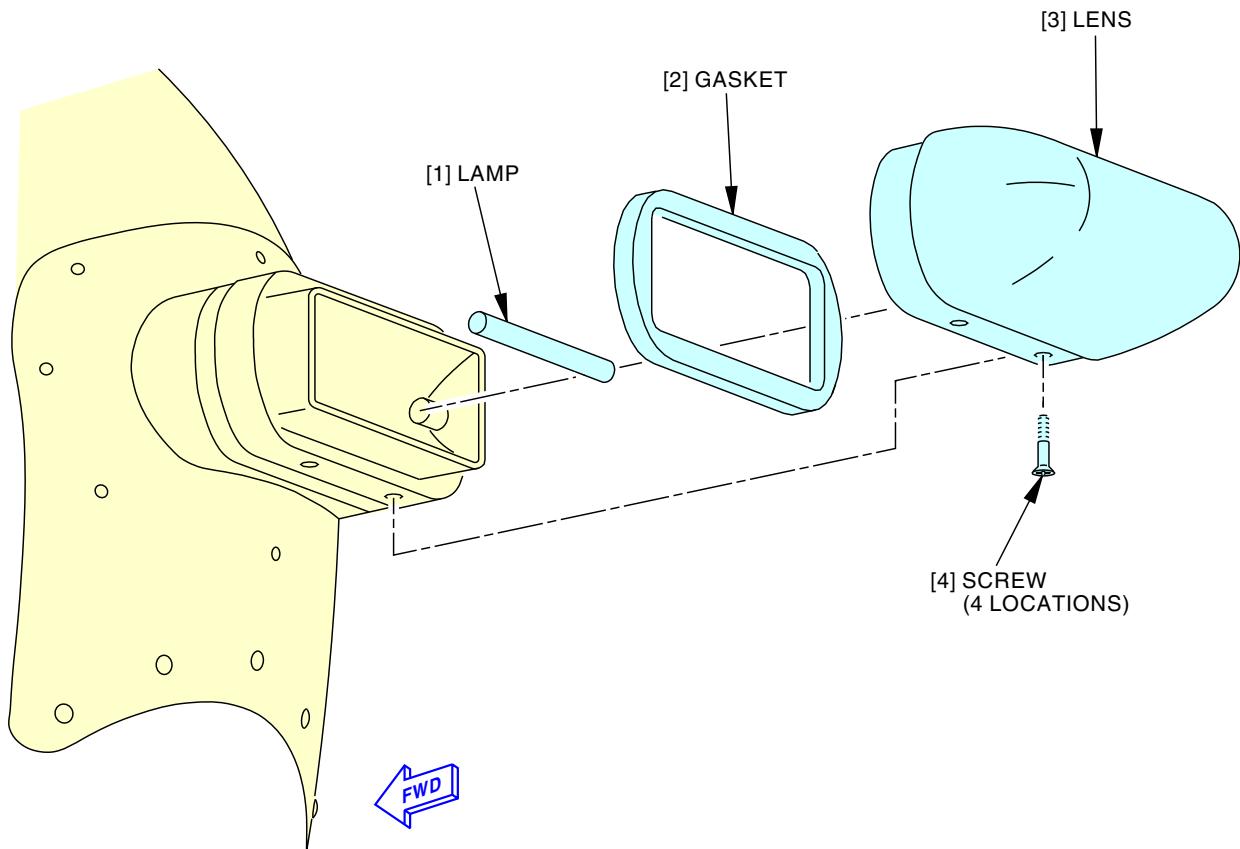
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TAIL ANTI-COLLISION LIGHT

A

2035794 S0000409798\_V3

Tail Anti-Collision Light - Lamp Replacement  
Figure 201/33-44-04-990-801 (Sheet 4 of 5)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434,  
437-447, 450-999; LOM 420 POST SB 737-33-1146;  
AIRPLANES WITH P/N: 30-0909-201

**33-44-04**

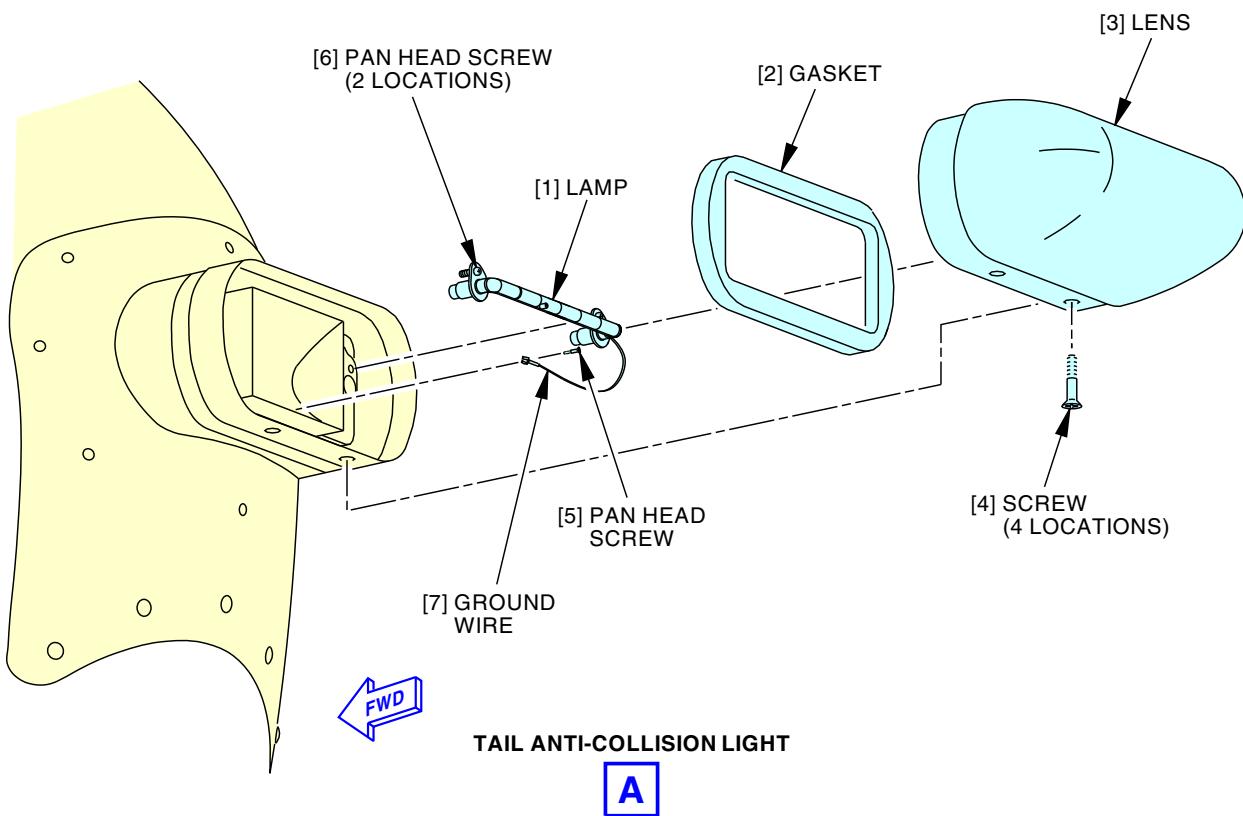
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3030853 S0000800110\_V1

Tail Anti-Collision Light - Lamp Replacement  
Figure 201/33-44-04-990-801 (Sheet 5 of 5)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434,  
437-447, 450-999; LOM 420 POST SB 737-33-1146;  
AIRPLANES WITH P/N: 30-0909-301

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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**TASK 33-44-04-960-802**

**3. Tail Anti-Collision Light - Light Assembly Replacement**

(Figure 201, Figure 202)

**A. References**

Reference	Title
33-44-00-710-801	Anti-Collision Lights - Operational Test (P/B 501)
SWPM 20-20-00	ELECTRICAL BONDING PROCESSES
SWPM 20-60-01	Cleaning of Electrical Connectors
SWPM 20-60-06	Standard Wiring Practices Manual
WDM 33-44-12	Wiring Diagram Manual

**B. Tools/Equipment**

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

Reference	Description
COM-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
STD-858	Tag - DO NOT OPERATE

**C. Consumable Materials**

Reference	Description	Specification
A50231	Sealant - Pressure And Environmental - Chromate Type	BMS5-95 Class B
C00528	Compound - Corrosion Preventive, Petroleum Hot Application (Soft Film)	MIL-C-11796 Class III
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
2	Gasket	33-44-04-01-025	LOM ALL
		33-44-04-01-185	LOM 437-447, 450-999
22	Light assembly	33-44-04-01-010	LOM ALL
		33-44-04-01-160	LOM 437-447, 450-999

**E. Location Zones**

Zone	Area
310	Fuselage - Body Station 1016.00 to Body Station 1217.00



**33-44-04**



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**F. Light Assembly Replacement**

SUBTASK 33-44-04-860-005

- (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>
B	13	C00115	EXT LIGHTING ANTI COLLISION WHITE

SUBTASK 33-44-04-040-002

- (2) Make sure that the Auxiliary Power Unit (APU) master switch, on the P5 forward overhead panel, is in the OFF position.
- (a) Install the DO NOT OPERATE tag, STD-858, on the APU master switch.

SUBTASK 33-44-04-860-012

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

**F/O Electrical System Panel, P6-2**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	19	C01344	APU FIRE SW POWER

**F/O Electrical System Panel, P6-4**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	14	C00033	AUX POWER UNIT CONT

SUBTASK 33-44-04-960-002

- (4) Do these steps to replace the light assembly [22] (WDM 33-44-12):

NOTE: Do not discard the light assembly. The light assembly is repairable.

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-999; LOM 420 POST SB  
737-33-1146**

- (a) Remove the screws [26] and washers [27].

**LOM ALL**

- (b) Remove the screws [21] and pull out the housing [24].

- (c) Disconnect the electrical connector [25].

- (d) Remove the bolts [23] that hold the light assembly [22] to the housing [24].

- (e) Replace the light assembly [22].

- (f) If you do not replace the light assembly [22] with a new light assembly [22], make sure that there are no signs of water penetration.

- 1) If there are signs of water penetration, do these steps:

- a) Remove the screws [4] that attach the lens [3] to the light assembly [22] (four locations).

- b) Examine the gasket [2] and do one of the following if it is damaged or worn:

<1> Replace the gasket [2] (refer to the applicable vendor's instructions).

NOTE: This procedure will take more than 4 hours to do.

<2> Replace the lens [3] assembly (TASK 33-44-04-960-803).

- (g) Install the light assembly [22] into the housing [24].

- 1) Make sure that the connector of the light assembly [22] is on the right side.

- (h) Install the bolts [23] to hold the light assembly [22] in the housing [24].

EFFECTIVITY  
**LOM ALL**

**33-44-04**



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- 1) Measure the resistance between the light assembly [22] and the housing [24] (SWPM 20-20-00).
    - a) Use a non-intrinsically safe bonding meter, COM-614.
    - b) Make sure that the maximum resistance is 0.0025 ohm (2.5 milliohms) or less.
  - 2) Measure the resistance between receptacle connector on the light assembly [22] and the housing [24] (SWPM 20-20-00).
    - a) Use a non-intrinsically safe bonding meter, COM-614.
    - b) Make sure that the maximum resistance is 0.0035 ohm (3.5 milliohms) or less.
- (i) Connect the electrical connector [25].

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-999; LOM 420 POST SB  
737-33-1146**

- 1) Clean the electrical connector [25] (SWPM 20-60-01).
- 2) Connect the electrical connector [25] (SWPM 20-60-06).
- 3) Measure the resistance between the light assembly [22] and electrical connector [25] shield (SWPM 20-20-00).
  - a) Use a non-intrinsically safe bonding meter, COM-614.
  - b) Make sure that the resistance is 0.003 ohm (3 milliohms) or less.

**LOM ALL**

- (j) Put the housing [24] in the fuselage.
- (k) Install the screws [21] with the corrosion-preventive compound, C00528.

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-999; LOM 420 POST SB  
737-33-1146**

- (l) Install the screws [26] and washers [27] with the corrosion-preventive compound, C00528.

**LOM ALL**

- (m) Apply an aerodynamic seal to fill the gap between the housing [24] and the light assembly [22] housing with sealant, A50231.

**LOM 420 PRE SB 737-33-1146**

- (n) Apply an aerodynamic seal around the edge of the housing [24] and the fuselage surface with sealant, A50231.

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-999; LOM 420 POST SB  
737-33-1146**

- (o) Measure the resistance between the metal components of the antecollision light housing and the APU eductor fairing surface (SWPM 20-20-00).
  - 1) Use a non-intrinsically safe bonding meter, COM-614.
  - 2) Make sure that the resistance is no more than 0.001 ohm (1 milliohm).

**LOM ALL**

- (p) If the lens [3] is dirty, clean it with a clean, soft, dry cotton wiper, G00034.

EFFECTIVITY	LOM ALL
	D633A101-LOM



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AIRCRAFT MAINTENANCE MANUAL

SUBTASK 33-44-04-860-006

- (5) 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>
B	13	C00115	EXT LIGHTING ANTI COLLISION WHITE

SUBTASK 33-44-04-860-015

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

**F/O Electrical System Panel, P6-2**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	19	C01344	APU FIRE SW POWER

**F/O Electrical System Panel, P6-4**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	14	C00033	AUX POWER UNIT CONT

SUBTASK 33-44-04-020-001

- (7) Remove the DO NOT OPERATE tag from the APU master switch on the P5 forward overhead panel.

SUBTASK 33-44-04-710-002

- | (8) Do a test of the new light assembly [22].

- (a) Set the switch for the tail anti-collision light, on the P5 overhead panel, to the on mode.
  - 1) Make sure that the light flashes (TASK 33-44-00-710-801).
- (b) Set the switch to the off mode.
  - 1) Make sure that the light goes off.

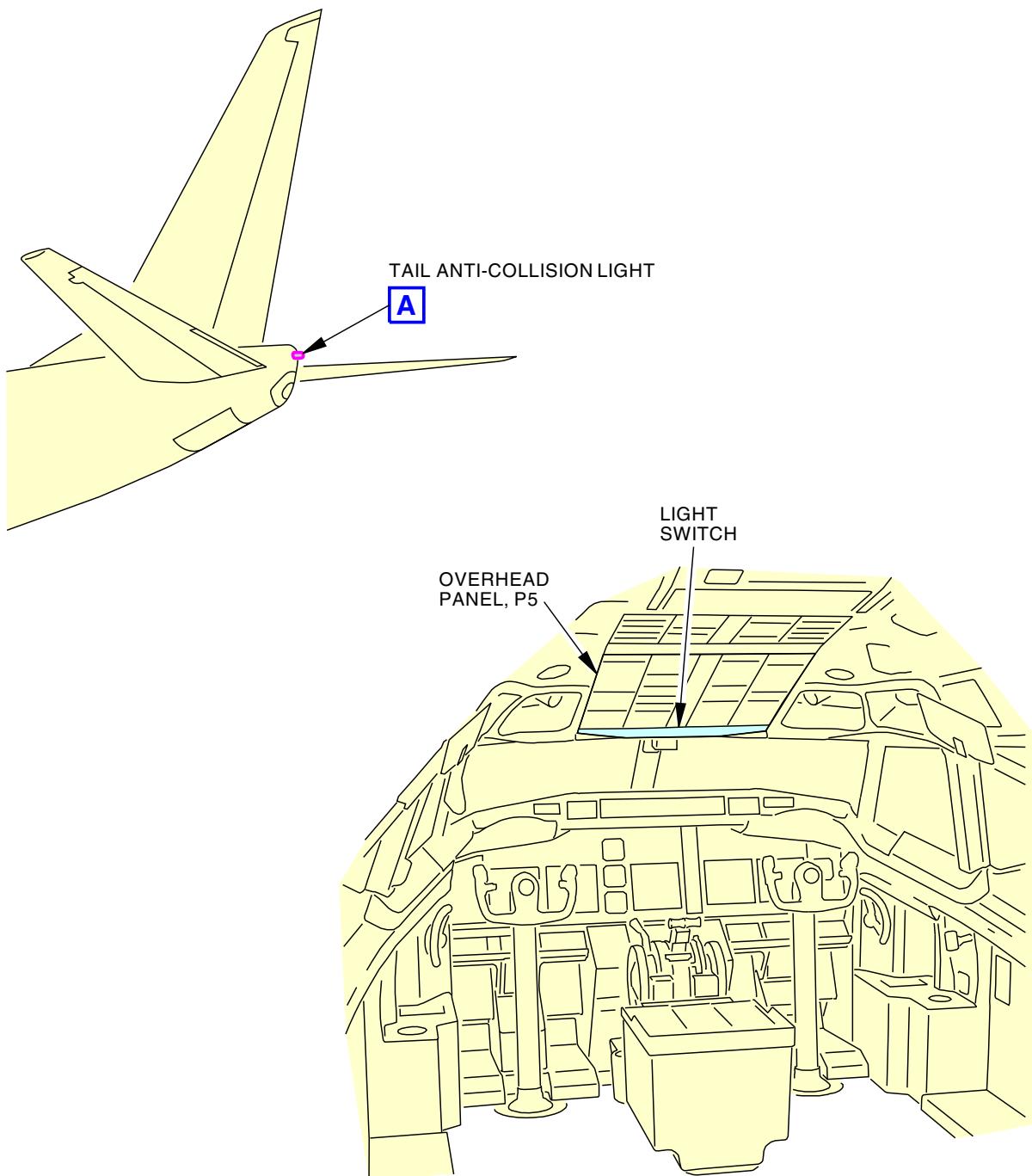
———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-44-04**



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FLIGHT COMPARTMENT

F99222 S0006576295\_V2

Tail Anti-Collision Light - Light Assembly Replacement  
Figure 202/33-44-04-990-802 (Sheet 1 of 3)

EFFECTIVITY  
LOM ALL

**33-44-04**

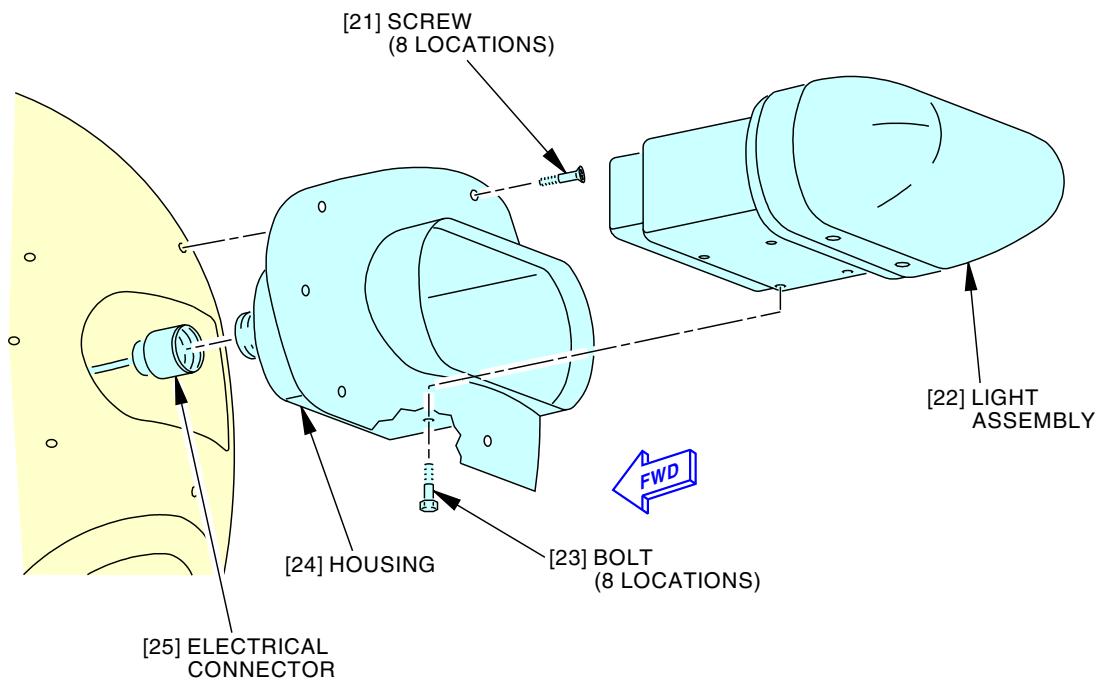
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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TAIL ANTI-COLLISION LIGHT

A

F99312 S0006576296\_V2

Tail Anti-Collision Light - Light Assembly Replacement  
Figure 202/33-44-04-990-802 (Sheet 2 of 3)

EFFECTIVITY  
LOM 420 PRE SB 737-33-1146

**33-44-04**

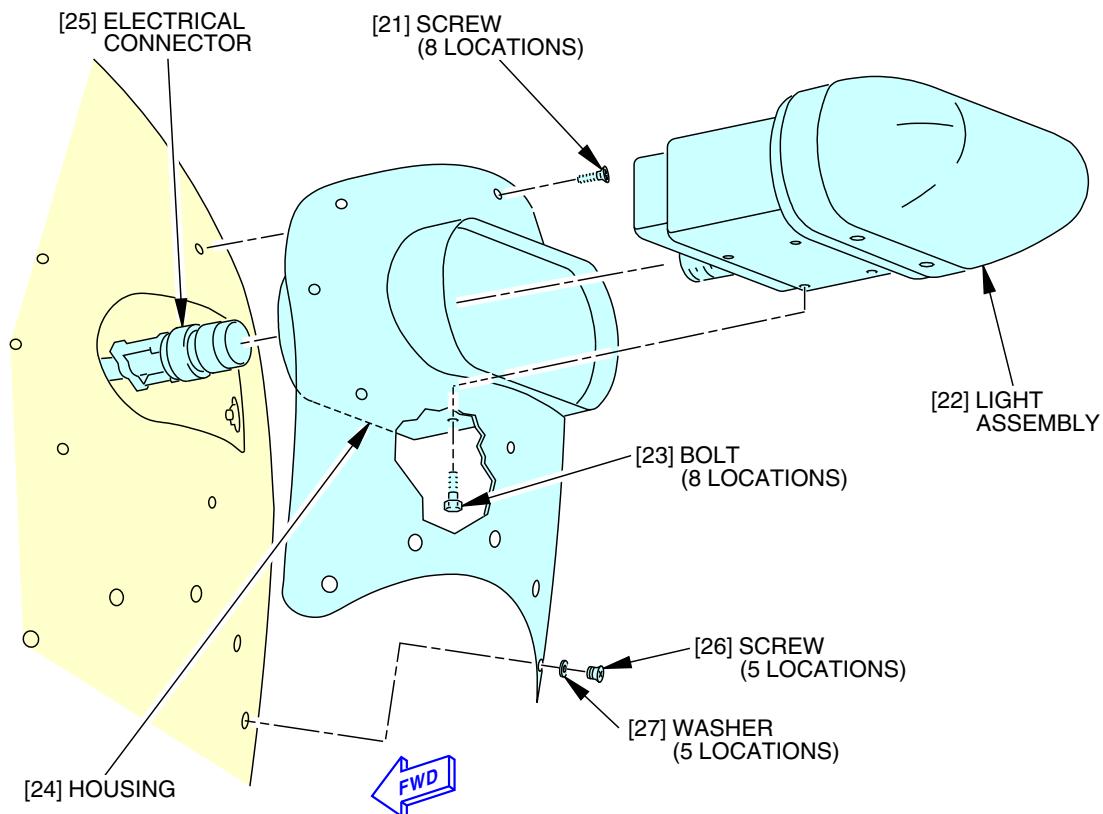
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TAIL ANTI-COLLISION LIGHT

A

2035803 S0000409794\_V4

Tail Anti-Collision Light - Light Assembly Replacement  
Figure 202/33-44-04-990-802 (Sheet 3 of 3)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434,  
437-447, 450-999; LOM 420 POST SB 737-33-1146

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**TASK 33-44-04-960-803**

**4. Tail Anti-Collision Light - Lens Replacement**

(Figure 201, Figure 203)

**A. Tools/Equipment**

Reference	Description
STD-858	Tag - DO NOT OPERATE

**B. Consumable Materials**

Reference	Description	Specification
A50231	Sealant - Pressure And Environmental - Chromate Type	BMS5-95 Class B
C00528	Compound - Corrosion Preventive, Petroleum Hot Application (Soft Film)	MIL-C-11796 Class III
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	AMS3819 Class 1 Grade A or B Form 1 (Supersede BMS15-5 CL A)

**C. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
2	Gasket	33-44-04-01-025	LOM ALL
		33-44-04-01-185	LOM 437-447, 450-999
3	Lens	33-44-04-01-015	LOM ALL
		33-44-04-01-175	LOM 437-447, 450-999

**D. Location Zones**

Zone	Area
310	Fuselage - Body Station 1016.00 to Body Station 1217.00

**E. Tail Anti-Collision Light Lens Replacement**

SUBTASK 33-44-04-040-003

- (1) Make sure that the Auxiliary Power Unit (APU) master switch, on the P5 forward overhead panel, is in the OFF position.
  - (a) Install the DO NOT OPERATE tag, STD-858, on the APU master switch.

SUBTASK 33-44-04-860-013

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

**F/O Electrical System Panel, P6-2**

Row	Col	Number	Name
B	19	C01344	APU FIRE SW POWER

**F/O Electrical System Panel, P6-4**

Row	Col	Number	Name
A	14	C00033	AUX POWER UNIT CONT

SUBTASK 33-44-04-860-009

- (3) Do these steps to replace the lens [3]:
  - (a) If it is necessary, remove the over-run sealant between the retainer of the lens [3] and the housing interface.

EFFECTIVITY
LOM ALL

**33-44-04**



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**AIRCRAFT MAINTENANCE MANUAL**

- (b) Remove the screws [4] and pull off the lens [3].
- (c) Examine the gasket [2] on the new lens [3].
  - 1) If the gasket [2] is damaged, do one of the following:
    - a) Replace the gasket [2] (refer to the applicable vendor's instructions).  
**NOTE:** This procedure will take more than 4 hours to do.
    - b) Replace the lens [3] assembly.
- (d) Put on the new lens [3].
  - 1) Install the screws [4] with the corrosion-preventive compound, C00528.
- (e) Apply an aerodynamic seal to fill the gap between the housing [24] and the light assembly [22] housing with sealant, A50231.
- (f) If the new lens [3] is dirty, clean it with a clean, soft, dry cotton wiper, G00034.

SUBTASK 33-44-04-440-003

- (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>
A	17	C01433	EQPT COOLING LOW FLOW DETECT SUPPLY

**F/O Electrical System Panel, P6-4**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	14	C00033	AUX POWER UNIT CONT

SUBTASK 33-44-04-020-002

- (5) Remove the DO NOT OPERATE tag from the APU master switch on the P5 forward overhead panel.

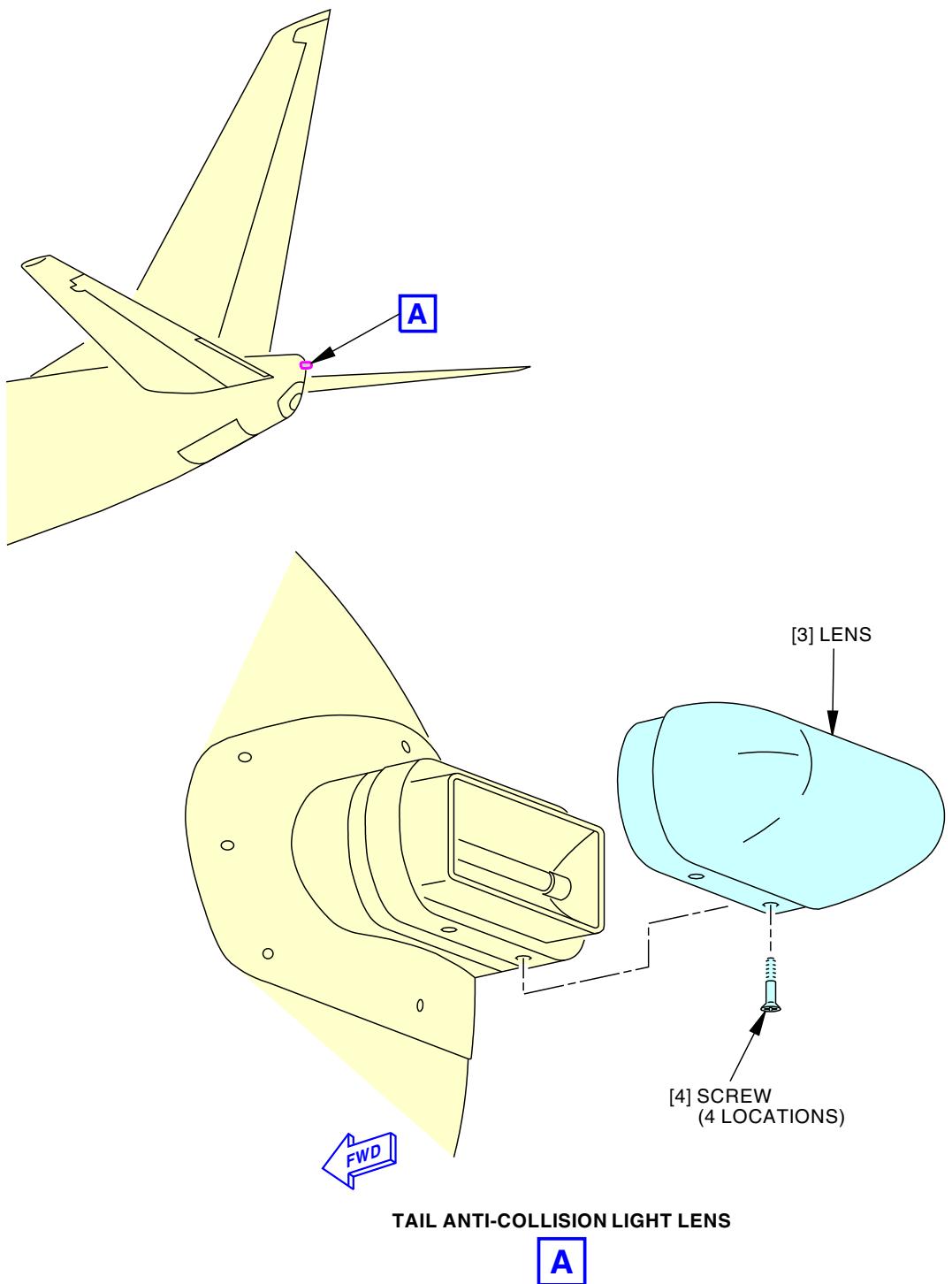
———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-44-04**



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F99326 S0006576298\_V2

Tail Anti-Collision Light - Lens Replacement  
Figure 203/33-44-04-990-803 (Sheet 1 of 2)

EFFECTIVITY  
LOM 420 PRE SB 737-33-1146

**33-44-04**

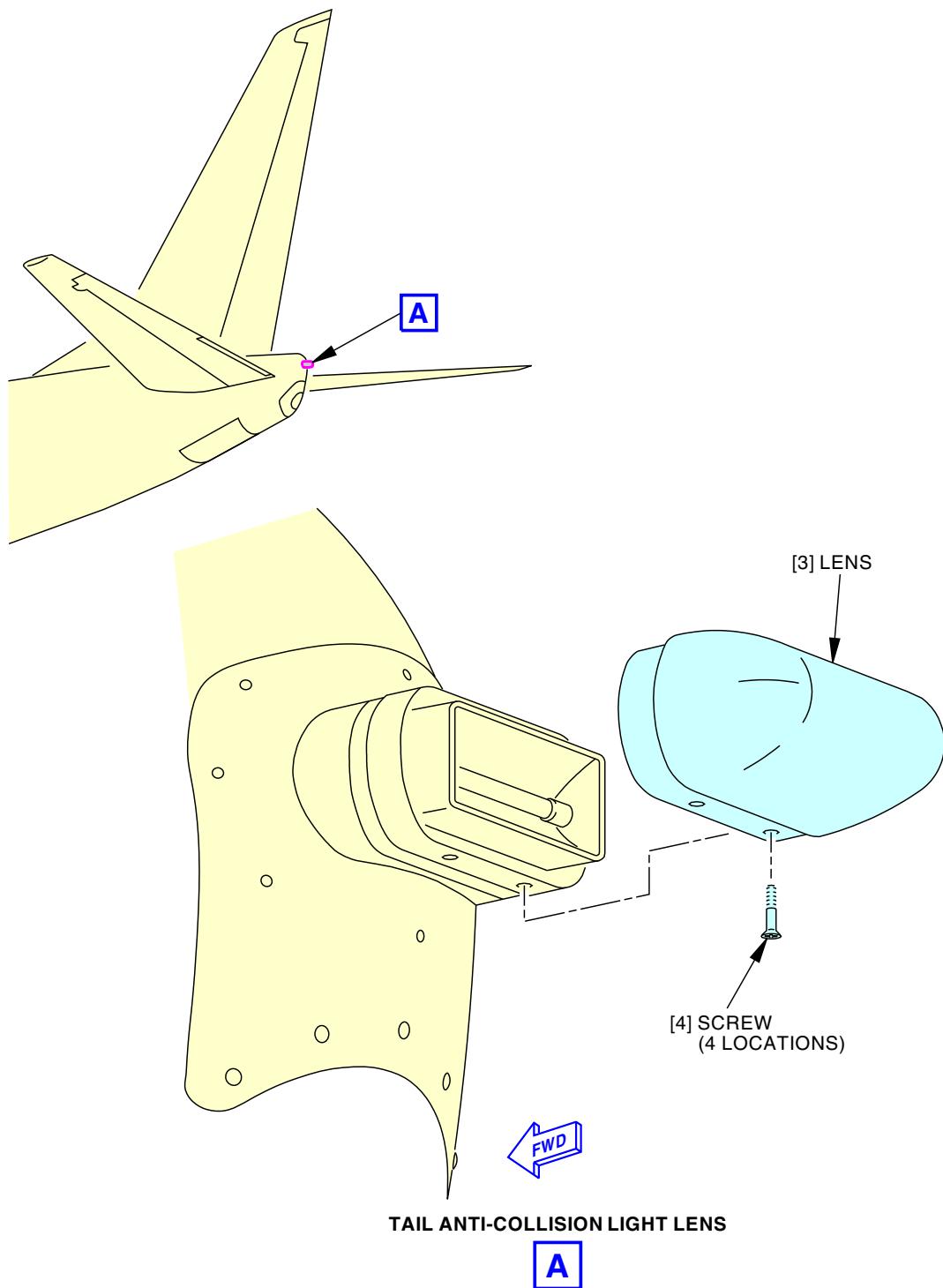
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2035846 S0000409799\_V2

Tail Anti-Collision Light - Lens Replacement  
Figure 203/33-44-04-990-803 (Sheet 2 of 2)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434,  
437-447, 450-999; LOM 420 POST SB 737-33-1146

**33-44-04**

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WINGLET ANTI-COLLISION LIGHTS - MAINTENANCE PRACTICES

**1. General**

- A. This procedure has these tasks:
- (1) Wing Anti-Collision Light - Light Assembly Module Replacement
  - (2) Wing Anti-Collision Light - Power Supply Replacement
  - (3) Wing Anti-Collision Light - Disconnect the Electrical Connector
  - (4) Wing Anti-Collision Light - Connect the Electrical Connector

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-430, 432-434; AIRPLANES WITH DUAL LENS CONFIGURATION AND WITHOUT LED WINGLET LIGHTS**

- (5) Wing Anti-Collision Light - Attenuator Assembly Replacement

**LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS**

- (6) Wing Anti-Collision Light - Stepdown Converter Replacement

**LOM ALL**

- (7) Wing Anti-Collision Light - Lamp Replacement

**LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS**

- (8) Wing Anti-Collision Light - LED Module Replacement
- (9) Wing Anti-Collision Light - LED Light Assembly Replacement

**LOM ALL; AIRPLANES WITH CONVENTIONAL WINGLET LIGHTS**

- (10) Wing Anti-Collision Light - Light Assembly Replacement.

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-430, 432-434; AIRPLANES WITH DUAL FORWARD LENS CONFIGURATION AND WITH CONVENTIONAL WINGLET LIGHTS**

**TASK 33-44-13-960-803**

**2. Anti-Collision Light - Light Assembly Module Replacement**

(Figure 201)

**A. References**

Reference	Title
33-44-00-710-801	Anti-Collision Lights - Operational Test (P/B 501)
57-21-22-000-803	Forward Position Light and Anti-Collision Light Lens (Dual Forward Lens) Removal (P/B 201)
57-21-22-400-804	Forward Position Light and Anti-Collision Light Lens (Dual Forward Lens) Installation (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.

EFFECTIVITY
LOM ALL

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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-430, 432-434; AIRPLANES WITH DUAL FORWARD LENS CONFIGURATION AND WITH CONVENTIONAL WINGLET LIGHTS (Continued)**

<b>Reference</b>	<b>Description</b>
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. Expendables/Parts**

<b>AMM Item</b>	<b>Description</b>	<b>AIPC Reference</b>	<b>AIPC Effectivity</b>
1	Anti-collision assembly	33-44-13-02-015	LOM 402, 404, 407, 411, 412, 415, 416, 420, 422-430, 432-434
		33-44-13-02-020	LOM 402, 404, 407, 411, 412, 415, 416, 420, 422-430, 432-434
		33-44-13-02A-015	LOM 402, 404, 407, 411, 412, 415, 416, 420, 422-430, 432-434
		33-44-13-02A-020	LOM 402, 404, 407, 411, 412, 415, 416, 420, 422-430, 432-434
		33-44-13-03B-015	LOM 402, 404, 407, 411, 412, 415, 416, 420, 422-430, 432-434
		33-44-13-03B-020	LOM 402, 404, 407, 411, 412, 415, 416, 420, 422-430, 432-434
		33-44-13-04-015	LOM 406
		33-44-13-04-020	LOM 406

**D. Location Zones**

<b>Zone</b>	<b>Area</b>
527	Left Winglet
627	Right Winglet

**E. Anti-Collision Light Assembly Module Replacement**

SUBTASK 33-44-13-860-011

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

**CAPT Electrical System Panel, P18-3**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
B	13	C00115	EXT LIGHTING ANTI COLLISION WHITE

SUBTASK 33-44-13-020-004

- (2) Remove the anti-collision assembly [1], do this task: Forward Position Light and Anti-Collision Light Lens (Dual Forward Lens) Removal, TASK 57-21-22-000-803.

EFFECTIVITY
LOM ALL

**33-44-13**



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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-430, 432-434; AIRPLANES WITH DUAL FORWARD LENS CONFIGURATION AND WITH CONVENTIONAL WINGLET LIGHTS (Continued)**

SUBTASK 33-44-13-020-005



**WARNING**

DO NOT TOUCH THE ANTI-COLLISION LIGHT FOR 10 MINUTES AFTER YOU REMOVE ELECTRICAL POWER. AN ELECTRICAL SHOCK CAN CAUSE INJURIES TO PERSONNEL OR DAMAGE TO EQUIPMENT.

- (3) Do these steps to remove the anti-collision assembly [1]:
- Loosen the screws [3] on the anti-collision assembly [1].
  - Pull the anti-collision assembly [1] forward.
  - Disconnect electrical connector [2] from the anti-collision assembly [1].
  - Hold the anti-collision assembly [1] while you remove the screw [4] and washers [5] to disconnect the ground wire [6] from the light support.
  - Remove the anti-collision assembly [1] from the airplane.

SUBTASK 33-44-13-420-002

- (4) Do these steps to install a new anti-collision assembly [1]:
- Install the ground wire [6] of a new anti-collision assembly [1] to the light support with washers [5] and screw [4].
  - Install the electrical connector [2] to the anti-collision assembly [1].
  - Install the screws [3] to attach the anti-collision assembly [1] to the light support.
  - Measure the electrical bonding resistance between the anti-collision assembly [1] and the light support (SWPM 20-20-00).
    - Use an intrinsically safe approved bonding meter, COM-1550.
    - Make sure that the electrical bonding resistance is 0.0025 ohm (2.5 milliohm) or less.

SUBTASK 33-44-13-420-003

- (5) Install the anti-collision lens assembly, do this task: Forward Position Light and Anti-Collision Light Lens (Dual Forward Lens) Installation, TASK 57-21-22-400-804.

SUBTASK 33-44-13-860-013

- (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>
B	13	C00115	EXT LIGHTING ANTI COLLISION WHITE

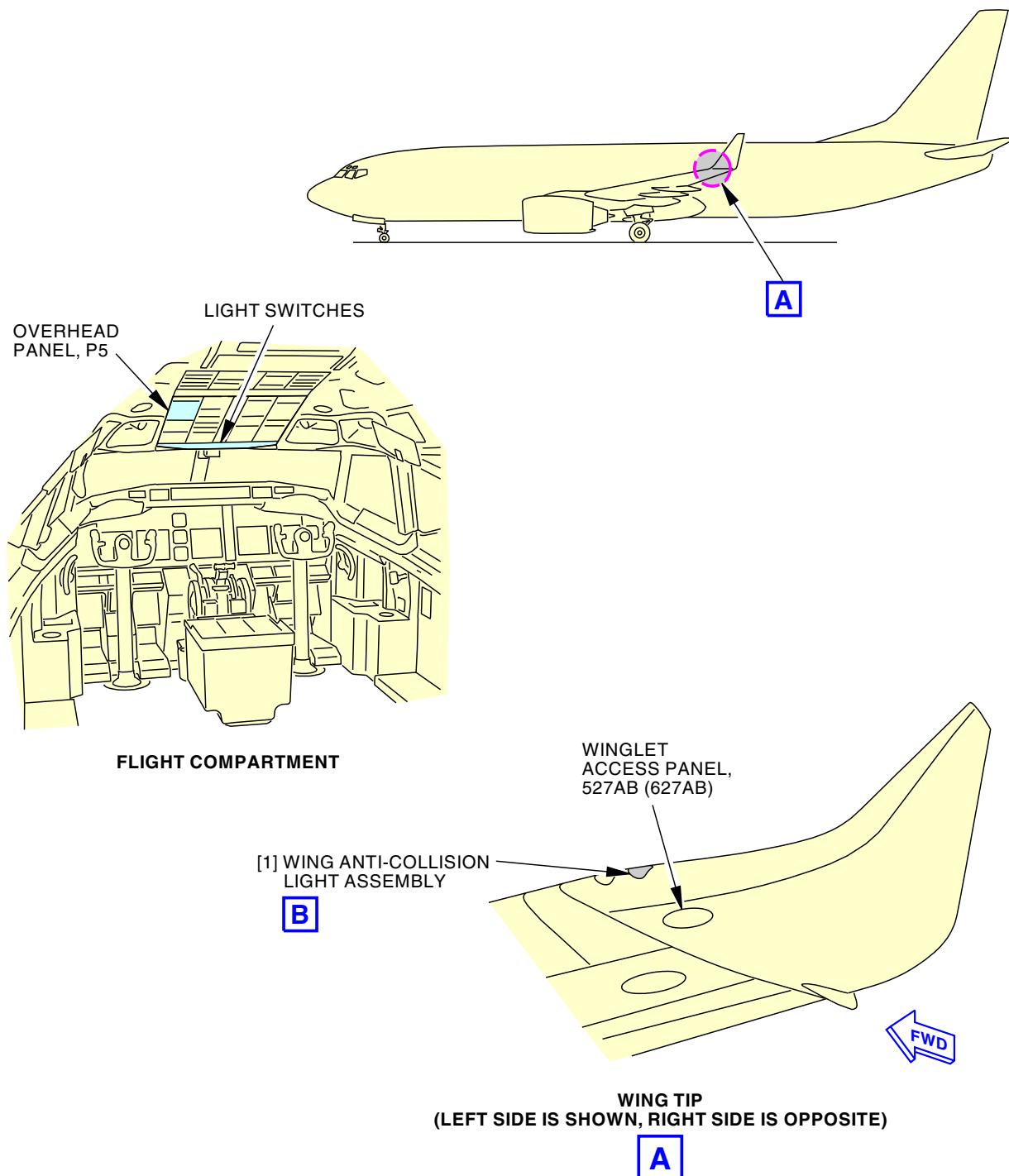
SUBTASK 33-44-13-860-012

- (7) Do a test of the new anti-collision assembly [1]:
- At the P5 overhead panel, set the switch for the wing anti-collision light to the ON mode.
    - Make sure that the light flashes (Anti-Collision Lights - Operational Test, TASK 33-44-00-710-801).
  - Set the switch to the OFF mode.
    - Make sure that the light goes off.

———— END OF TASK ———

EFFECTIVITY  
LOM ALL

**33-44-13**



479570 S0000142800\_V2

**Wing Anti-Collision Light - Light Assembly Module Replacement**  
**Figure 201/33-44-13-990-804 (Sheet 1 of 2)**

EFFECTIVITY  
 LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
 422-430, 432-434; AIRPLANES WITH DUAL  
 FORWARD LENS CONFIGURATION AND WITH  
 CONVENTIONAL WINGLET LIGHTS

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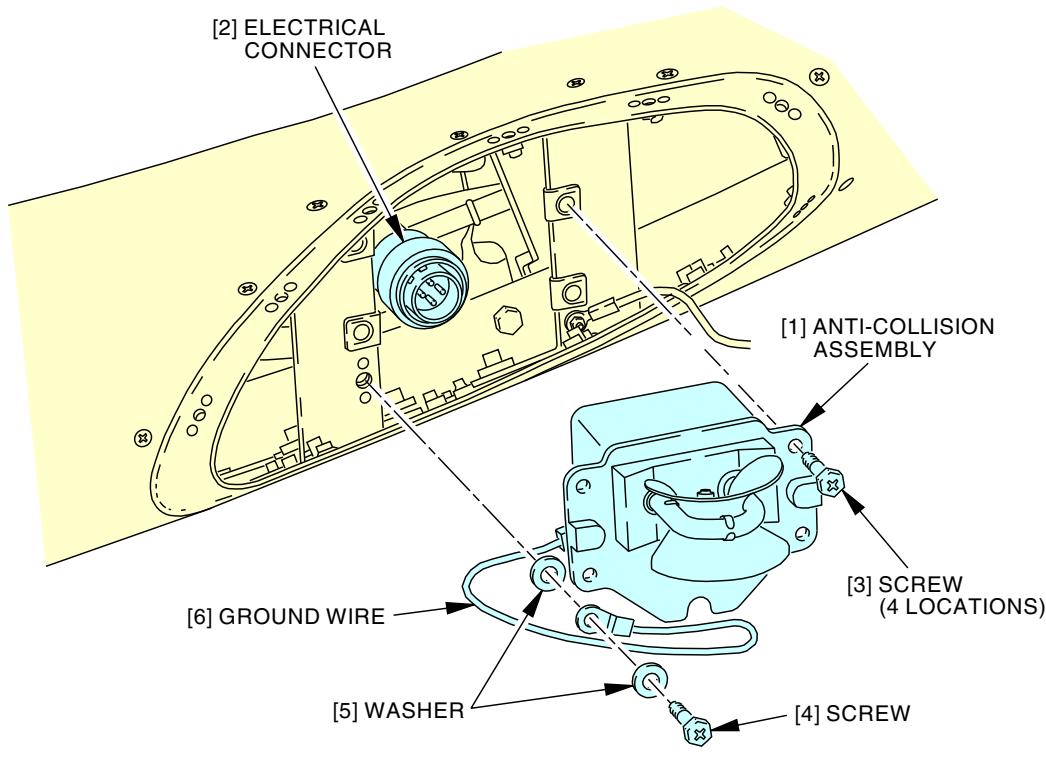
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WING ANTI-COLLISION LIGHT ASSEMBLY  
(ANTI-COLLISION LENS ASSEMBLY REMOVED)

B

479701 S0000142801\_V2

**Wing Anti-Collision Light - Light Assembly Module Replacement**  
**Figure 201/33-44-13-990-804 (Sheet 2 of 2)**

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-430, 432-434; AIRPLANES WITH DUAL  
FORWARD LENS CONFIGURATION AND WITH  
CONVENTIONAL WINGLET LIGHTS

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LOM ALL

**TASK 33-44-13-960-802**

**3. Anti-collision Light - Power Supply Replacement**

(Figure 202)

**A. References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
33-44-00-710-801	Anti-Collision Lights - Operational Test (P/B 501)
SWPM 20-20-00	ELECTRICAL BONDING PROCESSES
WDM 33-44-12	Wiring Diagram Manual

**B. Tools/Equipment**

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

Reference	Description
COM-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
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

**D. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
22	Power supply	33-44-03-01A-010	LOM 402, 404, 406, 407, 411, 412, 415, 416
		33-44-03-01B-010	LOM 420, 422-434, 437-447, 450-999

**E. Location Zones**

Zone	Area
526	Left Wing - Wing Tip
626	Right Wing - Wing Tip



**33-44-13**



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F. Access Panels

Number	Name/Location
521AAB	Lower Leading Edge Access Panel - Slat Station 508.31
621ZB	Lower Leading Edge Access Panel - Slat Station 508.31

G. Power Supply Replacement

SUBTASK 33-44-13-860-003

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

**CAPT Electrical System Panel, P18-3**

Row	Col	Number	Name
B	13	C00115	EXT LIGHTING ANTI COLLISION WHITE

SUBTASK 33-44-13-960-002



**WARNING**

DO NOT TOUCH THE POWER SUPPLY FOR 10 MINUTES AFTER YOU REMOVE THE POWER. AN ELECTRICAL SHOCK CAN CAUSE INJURY TO PERSONS OR DAMAGE TO EQUIPMENT CAN OCCUR.

- (2) Do these steps to replace the power supply (WDM 33-44-12):

NOTE: When you replace the power supply, do not discard it. Usually, you can repair the power supply with a new capacitor assembly. Do the repairs in a shop.

- (a) Open the applicable access panels:

**Number**    **Name/Location**

521AAB	Lower Leading Edge Access Panel - Slat Station 508.31
621ZB	Lower Leading Edge Access Panel - Slat Station 508.31

- (b) Disconnect the electrical connectors [21].

- (c) Loosen the fasteners [23].

- (d) Remove the power supply [22].

- (e) To install the new power supply [22], do these steps:

- 1) Clean the fay surface ground areas on the support bracket and power supply with abrasive (SWPM 20-20-00).

- 2) Apply a thin layer of sealant, A50155, sealant, A50110, sealant, A50231, or sealant, A50296, to the fay surface ground areas on the bracket and new power supply [22].

- a) Make sure that the layer of sealant is at the minimum of 0.005 in. (0.13 mm) thick over the areas.

- 3) Install the new power supply [22].

- (f) Tighten the fasteners [23] to 18 in-lb (2.0 N·m) - 22 in-lb (2.5 N·m).

- (g) Make sure that sealant continuously squeezes out along the edges of the bond interfaces.

- (h) If sealant is not squeezed out along the edges, remove the power supply [22] and apply more sealant, A50155.

- (i) Measure the electrical resistance between the power supply [22] and fuselage.

- 1) Use an intrinsically safe approved bonding meter, COM-1550.

- 2) Make sure that the resistance is less than 2.5 milliohms (0.0025 ohms).

- (j) Connect the electrical connectors [21].

EFFECTIVITY  
LOM ALL

**33-44-13**



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- (k) Close the applicable access panels:

**Number      Name/Location**

521AAB	Lower Leading Edge Access Panel - Slat Station 508.31
621ZB	Lower Leading Edge Access Panel - Slat Station 508.31

SUBTASK 33-44-13-860-004

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

**CAPT Electrical System Panel, P18-3**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
B	13	C00115	EXT LIGHTING ANTI COLLISION WHITE

SUBTASK 33-44-13-860-005

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

SUBTASK 33-44-13-710-002

- (5) Do a test of the new power supply [22]:

- (a) Set the switch for the wing anti-collision light, on the P5 forward overhead panel, to the on mode.
  - 1) Make sure that the light flashes (TASK 33-44-00-710-801).
- (b) Set the switch for the wing anti-collision light, on the P5 forward overhead panel, to the off mode.
  - 1) Make sure that the light goes off.

SUBTASK 33-44-13-860-006

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

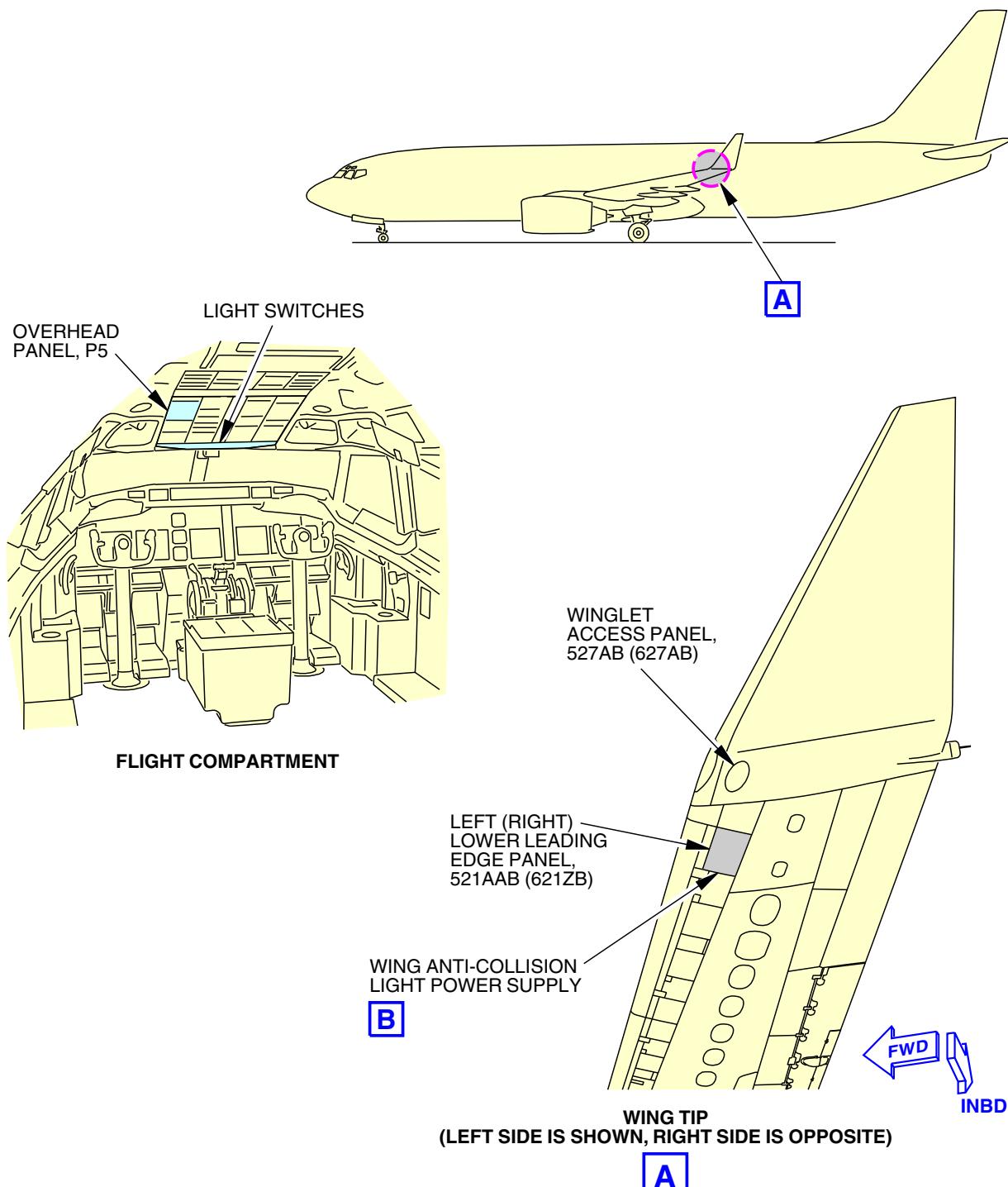
———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-44-13**



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AIRCRAFT MAINTENANCE MANUAL



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**Wing Anti-Collision Light - Power Supply Replacement**  
Figure 202/33-44-13-990-802 (Sheet 1 of 2)

EFFECTIVITY  
LOM ALL

**33-44-13**

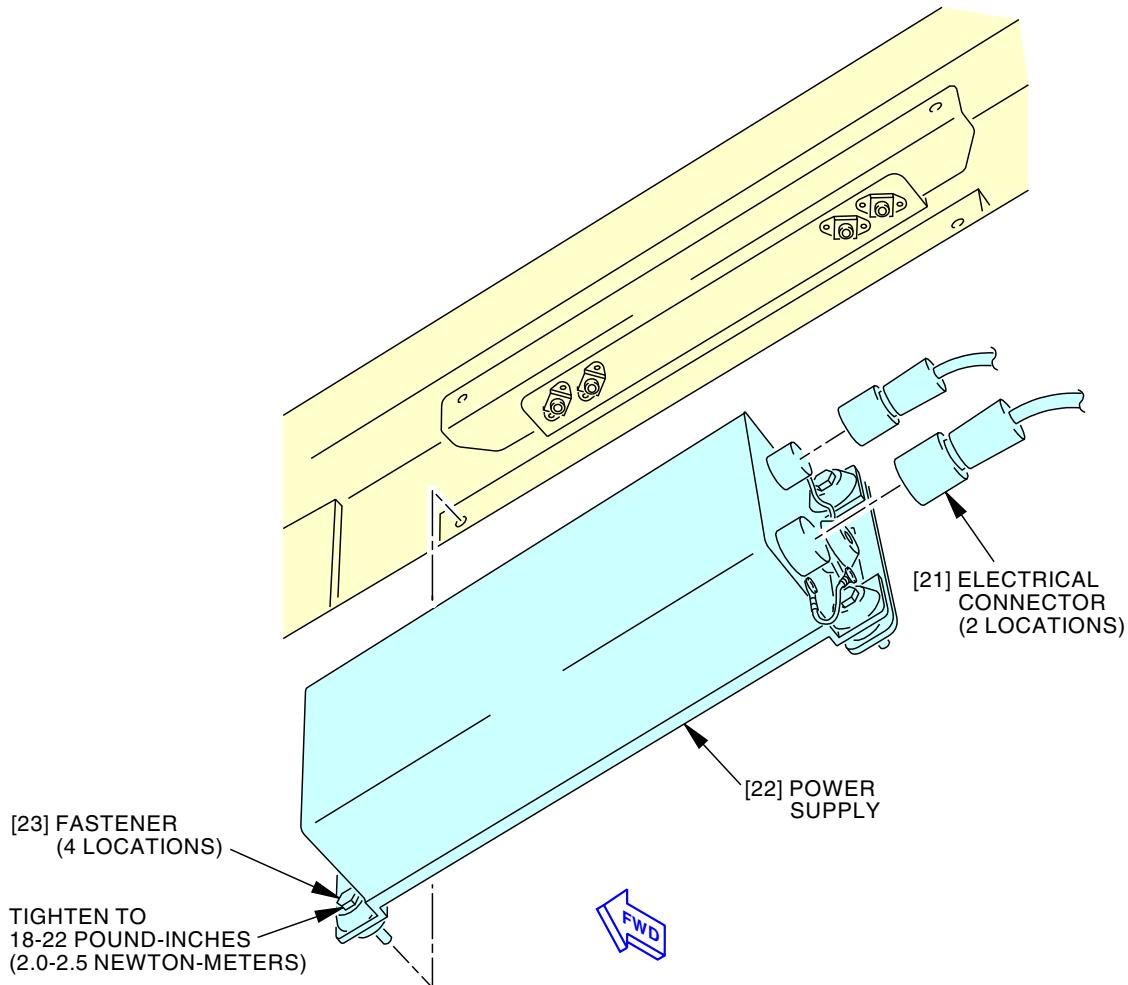
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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AIRCRAFT MAINTENANCE MANUAL



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Wing Anti-Collision Light - Power Supply Replacement  
Figure 202/33-44-13-990-802 (Sheet 2 of 2)

EFFECTIVITY  
LOM ALL

**33-44-13**

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AIRCRAFT MAINTENANCE MANUAL

**TASK 33-44-13-020-801**

**4. Anti-Collision Lights - Disconnect the Electrical Connector**

(Figure 203)

**A. General**

- (1) Use this procedure when it is necessary to remove the winglet.

**B. References**

<b>Reference</b>	<b>Title</b>
WDM 33-44-12	Wiring Diagram Manual

**C. Location Zones**

<b>Zone</b>	<b>Area</b>
527	Left Winglet
627	Right Winglet

**D. Access Panels**

<b>Number</b>	<b>Name/Location</b>
527AB	Winglet Access Panel
627AB	Winglet Access Panel

**E. Procedure**

SUBTASK 33-44-13-860-007

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

**CAPT Electrical System Panel, P18-3**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
B	13	C00115	EXT LIGHTING ANTI COLLISION WHITE

SUBTASK 33-44-13-010-001

- (2) Open the applicable access panel:

**Number**    **Name/Location**

527AB	Winglet Access Panel
627AB	Winglet Access Panel

SUBTASK 33-44-13-020-003



**WARNING**

DO NOT TOUCH THE POWER SUPPLY FOR 10 MINUTES AFTER YOU REMOVE THE POWER. AN ELECTRICAL SHOCK CAN CAUSE INJURY TO PERSONS OR DAMAGE TO EQUIPMENT CAN OCCUR.

- (3) Disconnect the electrical connector [41] at the wing tip closure rib (WDM 33-44-12).

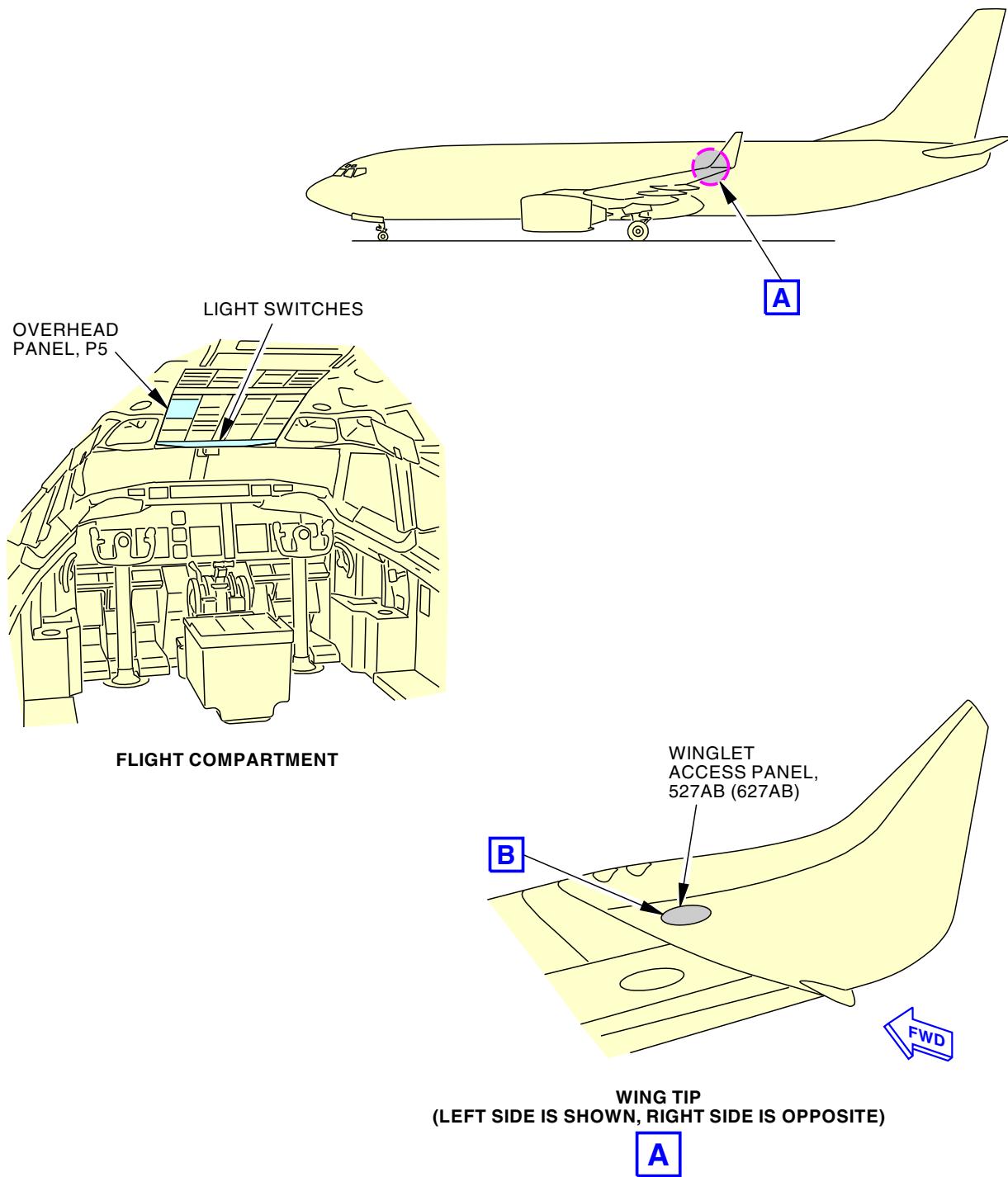
— END OF TASK —

EFFECTIVITY  
LOM ALL

**33-44-13**



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AIRCRAFT MAINTENANCE MANUAL



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**Wing Anti-Collision Light - Disconnect/Connect the Electrical Connector**  
Figure 203/33-44-13-990-803 (Sheet 1 of 2)

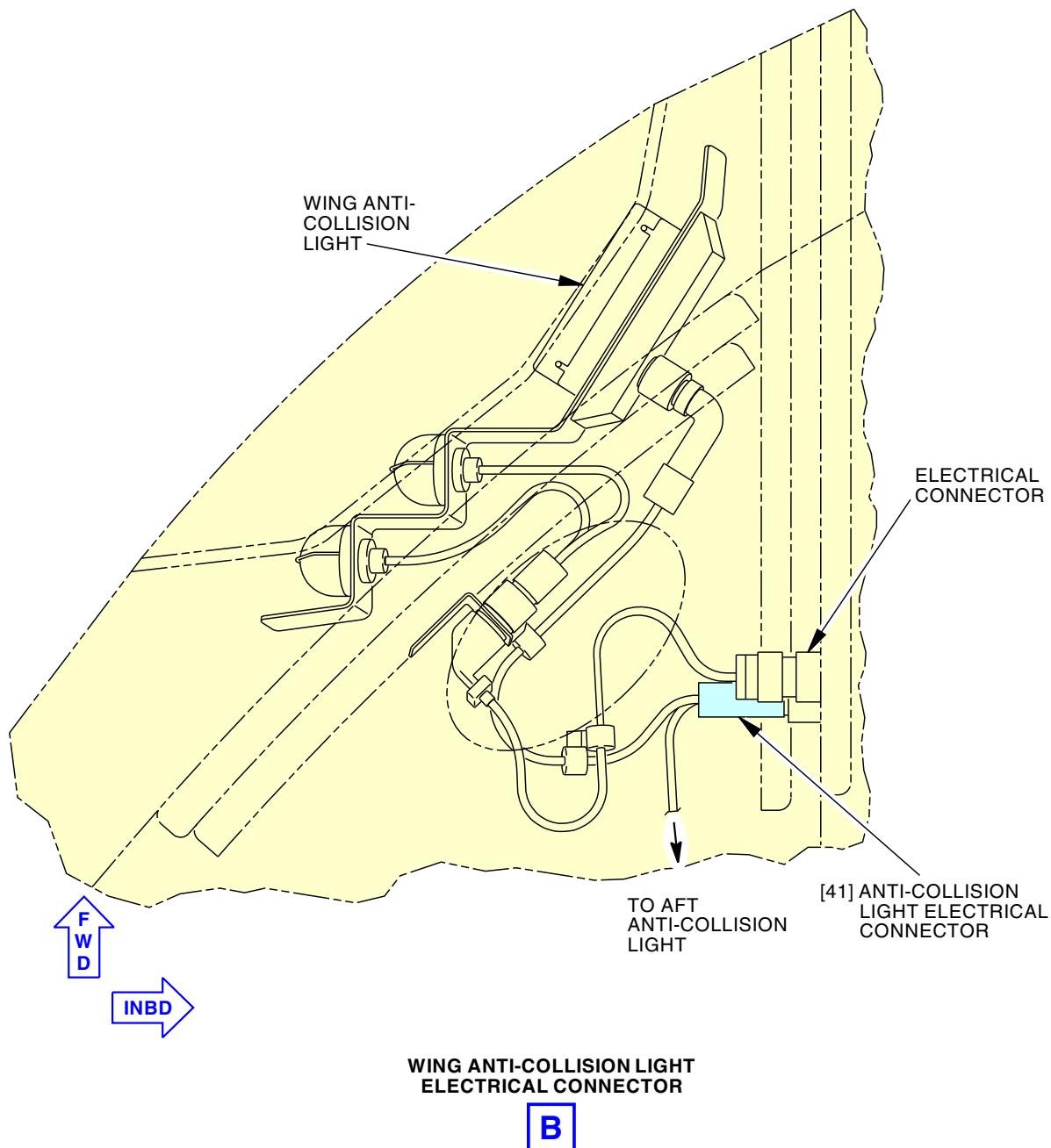
EFFECTIVITY  
LOM ALL

**33-44-13**

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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Wing Anti-Collision Light - Disconnect/Connect the Electrical Connector  
Figure 203/33-44-13-990-803 (Sheet 2 of 2)

EFFECTIVITY  
LOM ALL

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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AIRCRAFT MAINTENANCE MANUAL

**TASK 33-44-13-420-801**

**5. Anti-Collision Lights - Connect the Electrical Connector**

(Figure 203)

**A. General**

- (1) Use this procedure when it is necessary to install the winglet.

**B. References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
33-44-00-710-801	Anti-Collision Lights - Operational Test (P/B 501)
WDM 33-44-12	Wiring Diagram Manual

**C. Location Zones**

Zone	Area
527	Left Winglet
627	Right Winglet

**D. Access Panels**

Number	Name/Location
527AB	Winglet Access Panel
627AB	Winglet Access Panel

**E. Procedure**

SUBTASK 33-44-13-420-001

- (1) Connect the electrical connector [41] at the wing-to-winglet closure rib (WDM 33-44-12).

SUBTASK 33-44-13-410-002

- (2) Close the applicable access panel:

Number	Name/Location
527AB	Winglet Access Panel
627AB	Winglet Access Panel

SUBTASK 33-44-13-860-008

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

**CAPT Electrical System Panel, P18-3**

Row	Col	Number	Name
B	13	C00115	EXT LIGHTING ANTI COLLISION WHITE

SUBTASK 33-44-13-860-009

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

SUBTASK 33-44-13-710-003

- (5) Do a test of the electrical connection:

- (a) At the overhead panel, P5, set the switch for the wing anti-collision light to the on mode.
  - 1) Make sure the wing anti-collision light flashes (Anti-Collision Lights - Operational Test, TASK 33-44-00-710-801).
- (b) Set the switch to the off mode.
  - 1) Make sure the light goes off.



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SUBTASK 33-44-13-860-010

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

———— END OF TASK ————

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-430, 432-434; AIRPLANES WITH DUAL LENS  
CONFIGURATION AND WITHOUT LED WINGLET LIGHTS

**TASK 33-44-13-960-804**

**6. Wing Anti-Collision Light - Attenuator Assembly Replacement**

(Figure 204)

**A. References**

Reference	Title
57-21-22-000-806	Forward Position Light and Anti-Collision Light Panel (Dual Forward Lens) Removal (P/B 201)
57-21-22-400-806	Forward Position Light and Anti-Collision Light Panel (Dual Forward Lens) Installation (P/B 201)
WDM 33-43-11	Wiring Diagram Manual

**B. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
4	Attenuator assembly	33-44-13-02-360	LOM 402, 404, 407, 411, 412, 415, 416, 420, 422-430, 432-434
		33-44-13-02-365	LOM 402, 404, 407, 411, 412, 415, 416, 420, 422-430, 432-434
		33-44-13-02A-550	LOM 402, 404, 407, 411, 412, 415, 416, 420, 422-430, 432-434
		33-44-13-02A-555	LOM 402, 404, 407, 411, 412, 415, 416, 420, 422-430, 432-434
		33-44-13-04-550	LOM 406
		33-44-13-04-555	LOM 406
		33-44-13-05-550	LOM 406
		33-44-13-05-555	LOM 406
		33-44-13-09-560	LOM 406
		33-44-13-09-565	LOM 406
		33-44-13-10-560	LOM 406
		33-44-13-10-565	LOM 406

**C. Location Zones**

Zone	Area
527	Left Winglet
627	Right Winglet



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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-430, 432-434; AIRPLANES WITH DUAL LENS  
CONFIGURATION AND WITHOUT LED WINGLET LIGHTS (Continued)**

**D. Access Panels**

**Number      Name/Location**

527AB	Winglet Access Panel
627AB	Winglet Access Panel

**E. Procedure**

SUBTASK 33-44-13-860-015

- (1) Open the applicable circuit breaker and install the safety tag:  
(WDM 33-43-11)

**CAPT Electrical System Panel, P18-3**

**Row    Col    Number    Name**

A	12	C00113	EXTERIOR LIGHTING POSITION RIGHT
A	13	C00114	EXTERIOR LIGHTING POSITION LEFT
B	13	C00115	EXT LIGHTING ANTI COLLISION WHITE

SUBTASK 33-44-13-020-006



**WARNING**

DO NOT TOUCH THE ANTI-COLLISION LIGHT FOR 10 MINUTES AFTER YOU  
REMOVE ELECTRICAL POWER. AN ELECTRICAL SHOCK CAN CAUSE  
INJURIES TO PERSONNEL OR DAMAGE TO EQUIPMENT.

- (2) Do these steps to remove the anti-collision light attenuator assembly [4]:

- (a) Open the applicable access panel:

**Number      Name/Location**

527AB	Winglet Access Panel
627AB	Winglet Access Panel

- (b) Disconnect the forward position light connector [1] through the winglet access panel.

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-430, 432-434**

- (c) Do this task: Forward Position Light and Anti-Collision Light Panel (Dual Forward Lens)  
Removal, TASK 57-21-22-000-806.

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-430, 432-434; AIRPLANES WITH DUAL LENS  
CONFIGURATION AND WITHOUT LED WINGLET LIGHTS**

- (d) Disconnect the electrical connector [3] at the wing and winglet interface.
  - (e) Remove the cable clamps [8] from the attenuator cables [7].
  - (f) Remove the four screws [5] and four washers [6] from the anti-collision light attenuator assembly [4].
  - (g) Remove the anti-collision light attenuator assembly [4] and the bracket from the airplane.
  - (h) Remove the bracket from the anti-collision light attenuator assembly [4].

SUBTASK 33-44-13-420-004

- (3) Do these steps to install a new anti-collision light attenuator assembly [4]:

- (a) Install the anti-collision light attenuator assembly [4] to the bracket.
  - (b) Install the anti-collision light attenuator assembly [4] and the bracket with four washers [6] and four screws [5].

EFFECTIVITY  
LOM ALL

**33-44-13**



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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-430, 432-434; AIRPLANES WITH DUAL LENS  
CONFIGURATION AND WITHOUT LED WINGLET LIGHTS (Continued)**

- (c) Install the cable clamps [8] to the attenuator cables [7].
- (d) Connect the electrical connector [3] at the wing and winglet interface.
- (e) Connect the anti-collision light connector [2].
- (f) Connect the forward position light connector [1].

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-430, 432-434**

- (g) Do this task: Forward Position Light and Anti-Collision Light Panel (Dual Forward Lens)  
Installation, TASK 57-21-22-400-806.

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-430, 432-434; AIRPLANES WITH DUAL LENS  
CONFIGURATION AND WITHOUT LED WINGLET LIGHTS**

SUBTASK 33-44-13-410-003

- (4) Close the applicable access panel:

<u>Number</u>	<u>Name/Location</u>
527AB	Winglet Access Panel
627AB	Winglet Access Panel

SUBTASK 33-44-13-860-016

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

**CAPT Electrical System Panel, P18-3**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	12	C00113	EXTERIOR LIGHTING POSITION RIGHT
A	13	C00114	EXTERIOR LIGHTING POSITION LEFT
B	13	C00115	EXT LIGHTING ANTI COLLISION WHITE

SUBTASK 33-44-13-710-005

- (6) Do a test of the forward position lights:

- (a) At the overhead panel, P5, set the switch for the forward position lights to the ON mode.
  - 1) Make sure the lamps come on.
- (b) Set the switch for the forward position lights to the OFF mode.
  - 1) Make sure the lamps go off.

SUBTASK 33-44-13-710-006

- (7) Do a test of the wing anti-collision light:

- (a) At the overhead panel, P5, set the switch for the wing anti-collision lights to the ON mode.
  - 1) Make sure the light flashes.
- (b) Set the switch for the wing anti-collision lights to the OFF mode.
  - 1) Make sure the light goes off.

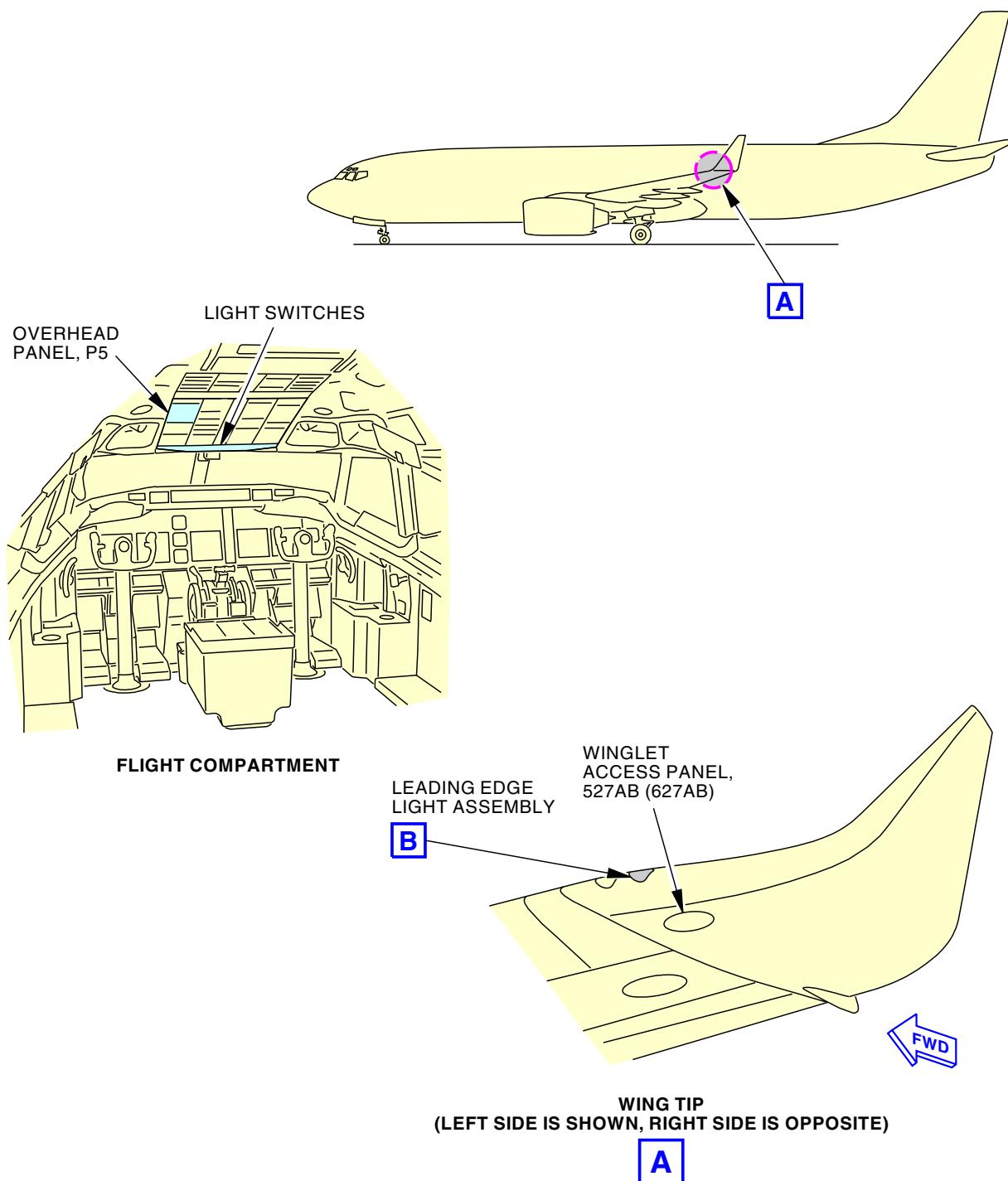
———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-44-13**



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**Wing Anti-Collision Light Attenuator - Replacement**  
Figure 204/33-44-13-990-805 (Sheet 1 of 2)

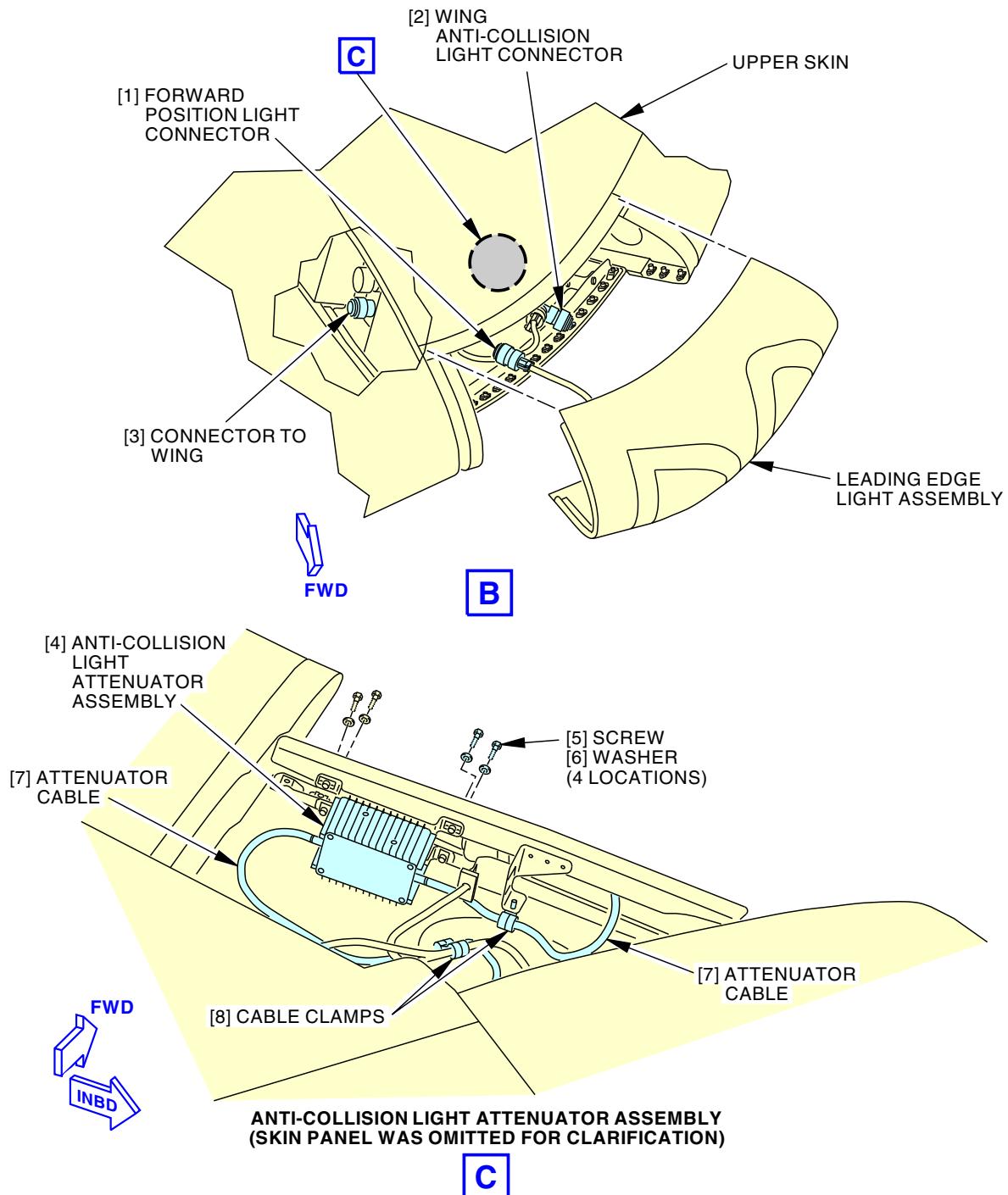
EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-430, 432-434; AIRPLANES WITH DUAL LENS  
CONFIGURATION AND WITHOUT LED WINGLET  
LIGHTS

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### Wing Anti-Collision Light Attenuator - Replacement

Figure 204/33-44-13-990-805 (Sheet 2 of 2)

EFFECTIVITY  
 LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
 422-430, 432-434; AIRPLANES WITH DUAL LENS  
 CONFIGURATION AND WITHOUT LED WINGLET  
 LIGHTS

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LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS

**TASK 33-44-13-960-806**

**7. Wing Anti-Collision Light - Stepdown Converter Replacement**

(Figure 205)

**A. References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
57-21-22-000-806	Forward Position Light and Anti-Collision Light Panel (Dual Forward Lens) Removal (P/B 201)
57-21-22-400-806	Forward Position Light and Anti-Collision Light Panel (Dual Forward Lens) Installation (P/B 201)
WDM 33-43-11	Wiring Diagram Manual

**B. Tools/Equipment**

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

Reference	Description
COM-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. Location Zones**

Zone	Area
527	Left Winglet
627	Right Winglet

**D. Access Panels**

Number	Name/Location
527AB	Winglet Access Panel
627AB	Winglet Access Panel

**E. Procedure**

SUBTASK 33-44-13-860-029

- (1) Open the applicable circuit breaker and install the safety tag:  
(WDM 33-43-11)

**CAPT Electrical System Panel, P18-3**

Row	Col	Number	Name
A	12	C00113	EXTERIOR LIGHTING POSITION RIGHT
A	13	C00114	EXTERIOR LIGHTING POSITION LEFT
B	13	C00115	EXT LIGHTING ANTI COLLISION WHITE



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LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS (Continued)

SUBTASK 33-44-13-020-012



DO NOT TOUCH THE ANTI-COLLISION LIGHT FOR 10 MINUTES AFTER YOU REMOVE ELECTRICAL POWER. AN ELECTRICAL SHOCK CAN CAUSE INJURIES TO PERSONNEL OR DAMAGE TO EQUIPMENT.

- (2) Do these steps to remove the anti-collision light stepdown converter [4]:

- (a) Open the applicable access panel:

Number    Name/Location

527AB      Winglet Access Panel  
627AB      Winglet Access Panel

- (b) Disconnect the forward position light connector [1] through the winglet access panel.

**LOM ALL**

- (c) Do this task: Forward Position Light and Anti-Collision Light Panel (Dual Forward Lens) Removal, TASK 57-21-22-000-806.

**LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS**

- (d) Disconnect the wing anti-collision light connector [2].  
(e) Disconnect the electrical connector [3] at the wing and winglet interface.  
(f) Remove the cable clamps [8]cable clamps from the stepdown converter [4].  
(g) Remove the four screws [5] and four washers [6] from the anti-collision light stepdown converter [4].  
(h) Remove the anti-collision light stepdown converter [4] and the bracket from the winglet.

SUBTASK 33-44-13-420-010

- (3) Do these steps to install a new anti-collision light stepdown converter [4]:

- (a) Install the anti-collision light stepdown converter [4] to the bracket.  
(b) Install the anti-collision light stepdown converter [4] and the bracket with four washers [6] and four screws [5].  
(c) With the intrinsically safe approved bonding meter, COM-1550, make sure the resistance between the stepdown converter [4] and the mating structure measures no more than 0.0005 ohms (0.5 milliohms).  
(d) Install the cable clamps [8] to the attenuator cables [7].  
(e) Connect the electrical connector [3] at the wing and winglet interface.  
(f) Connect the anti-collision light connector [2].  
(g) Connect the forward position light connector [1].

**LOM ALL**

- (h) Do this task: Forward Position Light and Anti-Collision Light Panel (Dual Forward Lens) Installation, TASK 57-21-22-400-806.

**LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS**

EFFECTIVITY  
**LOM ALL**

**33-44-13**



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**LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS (Continued)**

SUBTASK 33-44-13-860-030

- (4) Close the applicable access panel:

<u>Number</u>	<u>Name/Location</u>
527AB	Winglet Access Panel
627AB	Winglet Access Panel

SUBTASK 33-44-13-860-031

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

**CAPT Electrical System Panel, P18-3**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	12	C00113	EXTERIOR LIGHTING POSITION RIGHT
A	13	C00114	EXTERIOR LIGHTING POSITION LEFT
B	13	C00115	EXT LIGHTING ANTI COLLISION WHITE

SUBTASK 33-44-13-860-032

- (6) If necessary, do this task: Supply Electrical Power, TASK 24-22-00-860-811.

SUBTASK 33-44-13-710-010

- (7) Do a test of the forward position lights:

- (a) At the overhead panel, P5, set the switch for the forward position lights to the ON mode.  
1) Make sure the lamps come on.
- (b) Set the switch for the forward position lights to the OFF mode.  
1) Make sure the lamps go off.

SUBTASK 33-44-13-710-011

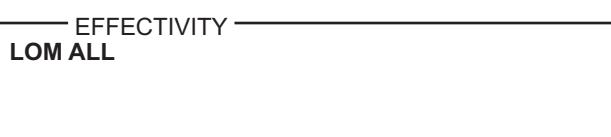
- (8) Do a test of the wing anti-collision light:

- (a) At the overhead panel, P5, set the switch for the wing anti-collision lights to the ON mode.  
1) Make sure the light flashes.
- (b) Set the switch for the wing anti-collision lights to the OFF mode.  
1) Make sure the light goes off.

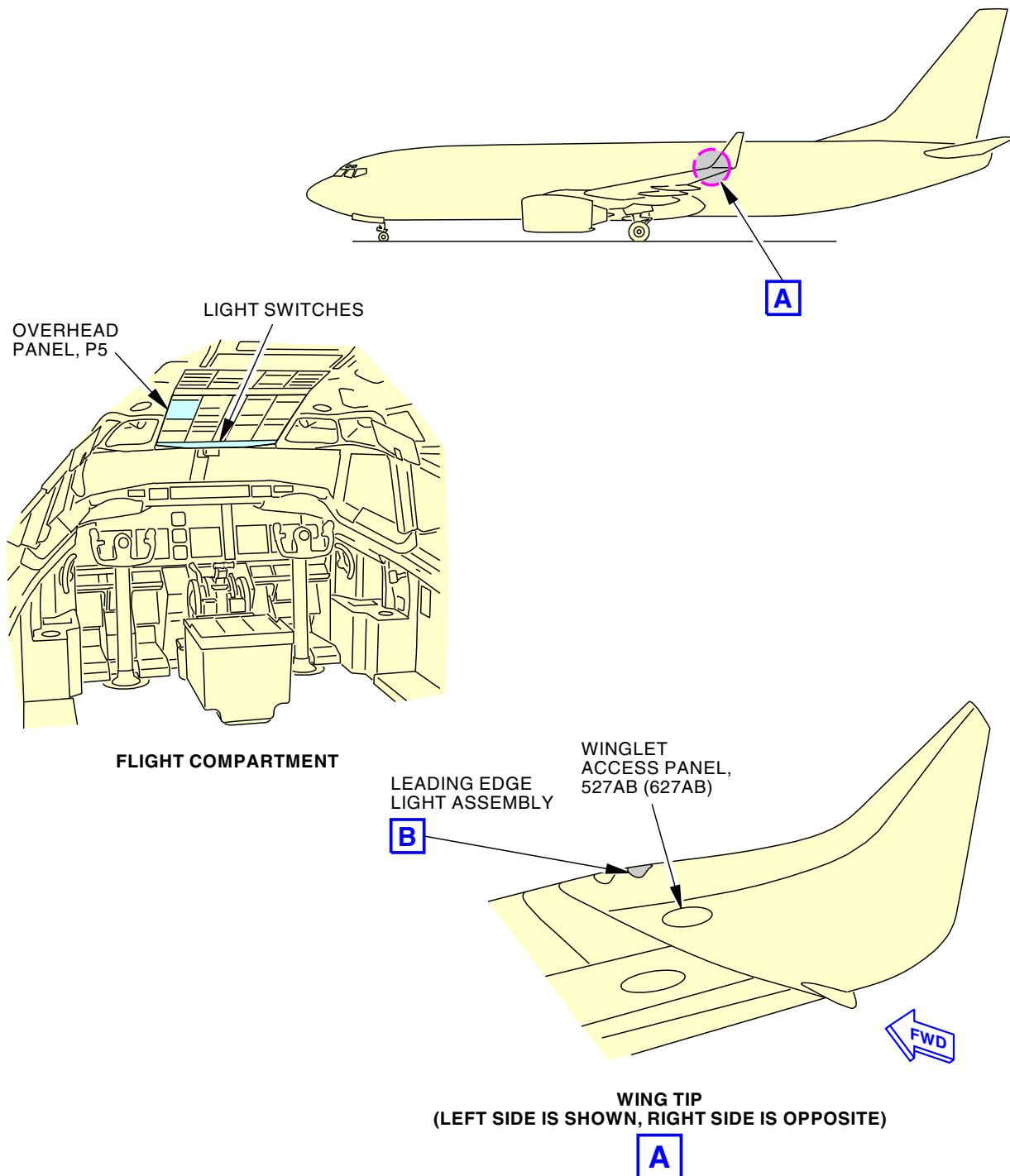
SUBTASK 33-44-13-860-033

- (9) If electrical power is not necessary, do this task: Remove Electrical Power,  
TASK 24-22-00-860-812.

———— END OF TASK ————



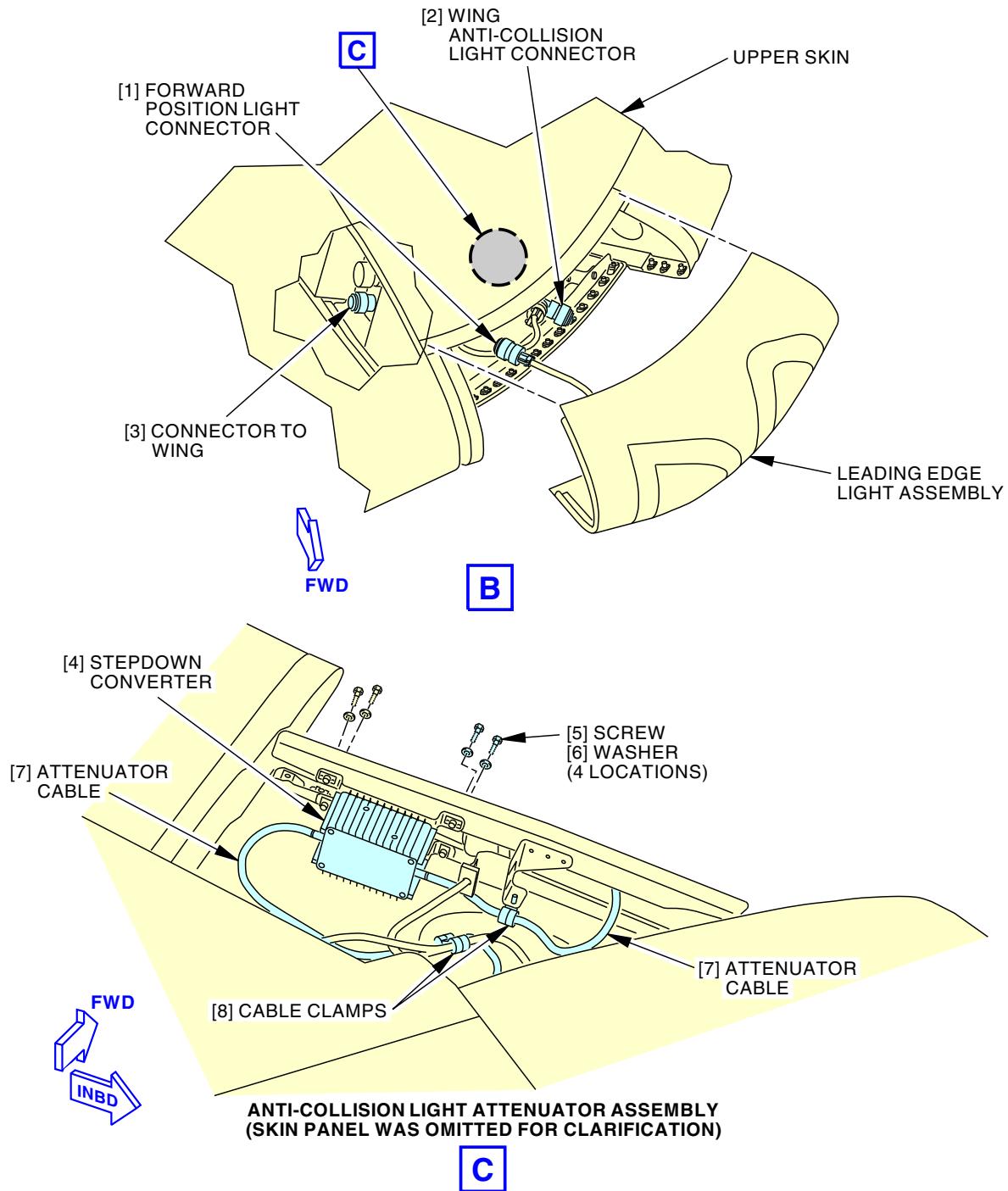
**33-44-13**



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**Wing Anti-Collision Light - Stepdown Converter Replacement**  
**Figure 205/33-44-13-990-809 (Sheet 1 of 2)**
**EFFECTIVITY**  
**LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS**
**33-44-13**

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**Wing Anti-Collision Light - Stepdown Converter Replacement**  
**Figure 205/33-44-13-990-809 (Sheet 2 of 2)**

 EFFECTIVITY  
 LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS

**33-44-13**



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LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-430, 432-434; AIRPLANES WITH DUAL LENS  
CONFIGURATION AND WITHOUT LED WINGLET LIGHTS

**TASK 33-44-13-900-802**

**8. Wing Anti-collision Light - Lamp Replacement**

(Figure 206)

**A. General**

- (1) Lamp replacements should be done in a shop using the vendor component maintenance manual. If this is not possible, use this procedure to replace the lamp.
- (2) Remove the wing anti-collision light assembly from the airplane first. Then move the light assembly to a work area with a flat surface. This will help you do the lamp replacement faster and easier than at the wing.

**B. References**

Reference	Title
33-44-00-710-801	Anti-Collision Lights - Operational Test (P/B 501)

**C. Consumable Materials**

Reference	Description	Specification
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	AMS3819 Class 1 Grade A or B Form 1 (Supersede BMS15-5 CLA)
G01306	Gloves - Lint-free	

**D. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
81	Lamp	33-44-13-02-105	LOM 402, 404, 407, 411, 412, 415, 416, 420, 422-430, 432-434
		33-44-13-02A-130	LOM 402, 404, 407, 411, 412, 415, 416, 420, 422-430, 432-434
		33-44-13-04-130	LOM 406
		33-44-13-05-130	LOM 406

**E. Location Zones**

Zone	Area
527	Left Winglet
627	Right Winglet

**F. Procedure**

SUBTASK 33-44-13-860-022

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

**CAPT Electrical System Panel, P18-3**

Row	Col	Number	Name
B	13	C00115	EXT LIGHTING ANTI COLLISION WHITE

EFFECTIVITY  
LOM ALL

**33-44-13**



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

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-430, 432-434; AIRPLANES WITH DUAL LENS  
CONFIGURATION AND WITHOUT LED WINGLET LIGHTS (Continued)

SUBTASK 33-44-13-020-009

- (2) To remove the anti-collision light assembly, do this task: Anti-Collision Light - Light Assembly Module Replacement, TASK 33-44-13-960-803.

NOTE: Do only the steps that remove the anti-collision light assembly.

SUBTASK 33-44-13-020-010



WHEN YOU REMOVE AN ELECTROSTATIC DISCHARGE SENSITIVE (ESDS) UNIT, MAKE SURE YOU PUT COVERS ON THE ELECTRICAL CONNECTORS. USE ELECTROSTATIC DISCHARGE (ESD) SAFE DUST CAPS. IF THE CONNECTORS DO NOT HAVE COVERS ON THEM, INJURY TO PERSONS AND DAMAGE TO THE COMPONENT CAN OCCUR.

- (3) Do these steps to remove the lamp [81] from the anti-collision light assembly:  
(a) Remove the two screws [82] and the reflectors [83] from the anti-collision light assembly.



PUT ON SAFETY GLASSES TO PREVENT EYE INJURIES. EYE PROTECTION IS MANDATORY. THE HALOGEN LAMP IS PRESSURIZED. IF THE LAMP BREAKS, THE PRESSURE WILL EJECT THE GLASS WITH AN EXPLOSIVE FORCE. INJURIES TO YOUR EYES CAN OCCUR IF THE LAMP BREAKS.

- (b) Remove the lamp [81] from the anti-collision light assembly.

SUBTASK 33-44-13-420-007

- (4) Do these steps to install the lamp [81] to the anti-collision light assembly:

NOTE: Do not touch the new lamp with your hands. Use lint-free gloves, G01306.



PUT ON SAFETY GLASSES TO PREVENT EYE INJURIES. EYE PROTECTION IS MANDATORY. THE HALOGEN LAMP IS PRESSURIZED. IF THE LAMP BREAKS, THE PRESSURE WILL EJECT THE GLASS WITH AN EXPLOSIVE FORCE. INJURIES TO YOUR EYES CAN OCCUR IF THE LAMP BREAKS.

- (a) Put the lamp [81] in its position.  
(b) If the reflectors are dirty, clean them with a cotton wiper, G00034 or equivalent.  
(c) Install the reflectors [83] with two screws [82].

- 1) Tighten the screws [82] that hold the lamp [81] in its position.

SUBTASK 33-44-13-420-008

- (5) To install the anti-collision light assembly, do this task: Anti-Collision Light - Light Assembly Module Replacement, TASK 33-44-13-960-803.

NOTE: Do only the steps that install the anti-collision light assembly.

SUBTASK 33-44-13-860-037

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

### CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
B	13	C00115	EXT LIGHTING ANTI COLLISION WHITE

EFFECTIVITY  
LOM ALL

**33-44-13**



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

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-430, 432-434; AIRPLANES WITH DUAL LENS  
CONFIGURATION AND WITHOUT LED WINGLET LIGHTS (Continued)**

SUBTASK 33-44-13-710-008

- (7) Do a test of the new lamp:
- (a) At the overhead panel, P5, set the switch for the wing anti-collision light to the on mode.
    - 1) Make sure the light flashes (Anti-Collision Lights - Operational Test, TASK 33-44-00-710-801).
  - (b) Set the switch to the off mode.
    - 1) Make sure the light goes off.

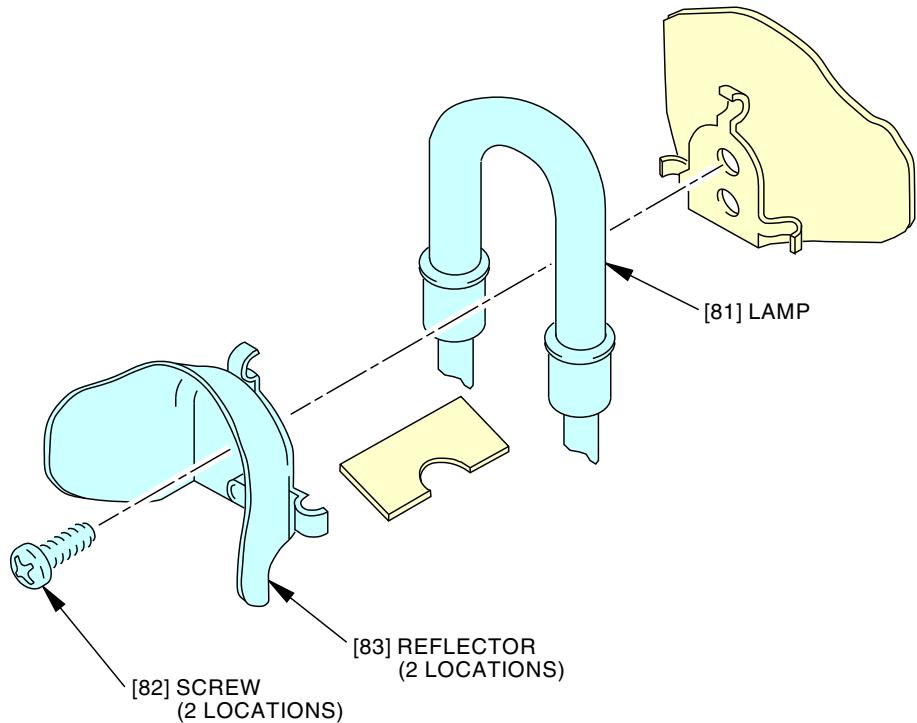
———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-44-13**



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



WING ANTI-COLLISION LAMP ASSEMBLY

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**Wing Anti-Collision Light - Lamp Replacement**  
**Figure 206/33-44-13-990-807**

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-430, 432-434; AIRPLANES WITH DUAL LENS  
CONFIGURATION AND WITHOUT LED WINGLET  
LIGHTS

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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**LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS**

**TASK 33-44-13-960-805**

**9. Wing Anti-Collision Light - LED Module Replacement**

(Figure 207)

**A. General**

- (1) This procedure contains instructions for the replacement of the LED modules installed on the wing anti-collision light.

**B. References**

<b>Reference</b>	<b>Title</b>
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
33-44-00-710-801	Anti-Collision Lights - Operational Test (P/B 501)
57-21-22-000-803	Forward Position Light and Anti-Collision Light Lens (Dual Forward Lens) Removal (P/B 201)
57-21-22-400-804	Forward Position Light and Anti-Collision Light Lens (Dual Forward Lens) Installation (P/B 201)

**C. Consumable Materials**

<b>Reference</b>	<b>Description</b>	<b>Specification</b>
G01306	Gloves - Lint-free	

**D. Location Zones**

<b>Zone</b>	<b>Area</b>
527	Left Winglet
627	Right Winglet

**E. Procedure**

SUBTASK 33-44-13-860-025

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

**CAPT Electrical System Panel, P18-3**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
B	13	C00115	EXT LIGHTING ANTI COLLISION WHITE

**LOM ALL**

SUBTASK 33-44-13-020-011

- (2) Remove the forward anti-collision light lens, do this task: Forward Position Light and Anti-Collision Light Lens (Dual Forward Lens) Removal, TASK 57-21-22-000-803.

NOTE: The ground wire [92], screw [93], and nut [94] may need to be removed from the lens assembly to accomplish this task.

**LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS**

SUBTASK 33-44-13-960-003

- (3) Do these steps to replace the LED module [91]:

- Remove the four screws [96] that attach the LED module [91] to the bracket.
- Pull the LED module [91] forward and disconnect the connector [95].
- Replace the LED module [91].
- Connect the connector [95].

EFFECTIVITY  
LOM ALL

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**LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS (Continued)**

- (e) Install the LED module [91].

NOTE: Do not touch the new LED module with your hands. Use lint-free gloves, G01306.

- (f) Tighten the four screws [96].

- (g) If removed, install the ground wire [92], screw [93], and nut [94].

**LOM ALL**

SUBTASK 33-44-13-420-009

- (4) Install the forward anti-collision light lens, do this task: Forward Position Light and Anti-Collision Light Lens (Dual Forward Lens) Installation, TASK 57-21-22-400-804.

**LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS**

SUBTASK 33-44-13-860-026

- (5) 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>
B	13	C00115	EXT LIGHTING ANTI COLLISION WHITE

SUBTASK 33-44-13-860-027

- (6) If necessary, do this task: Supply Electrical Power, TASK 24-22-00-860-811.

SUBTASK 33-44-13-710-009

- (7) Do a test of the new LED module [91]:

- (a) At the overhead panel, P5, set the switch for the wing anti-collision light to the on mode.  
1) Make sure the light flashes (Anti-Collision Lights - Operational Test, TASK 33-44-00-710-801).

- (b) Set the switch to the off mode.

- 1) Make sure the light goes off.

SUBTASK 33-44-13-860-028

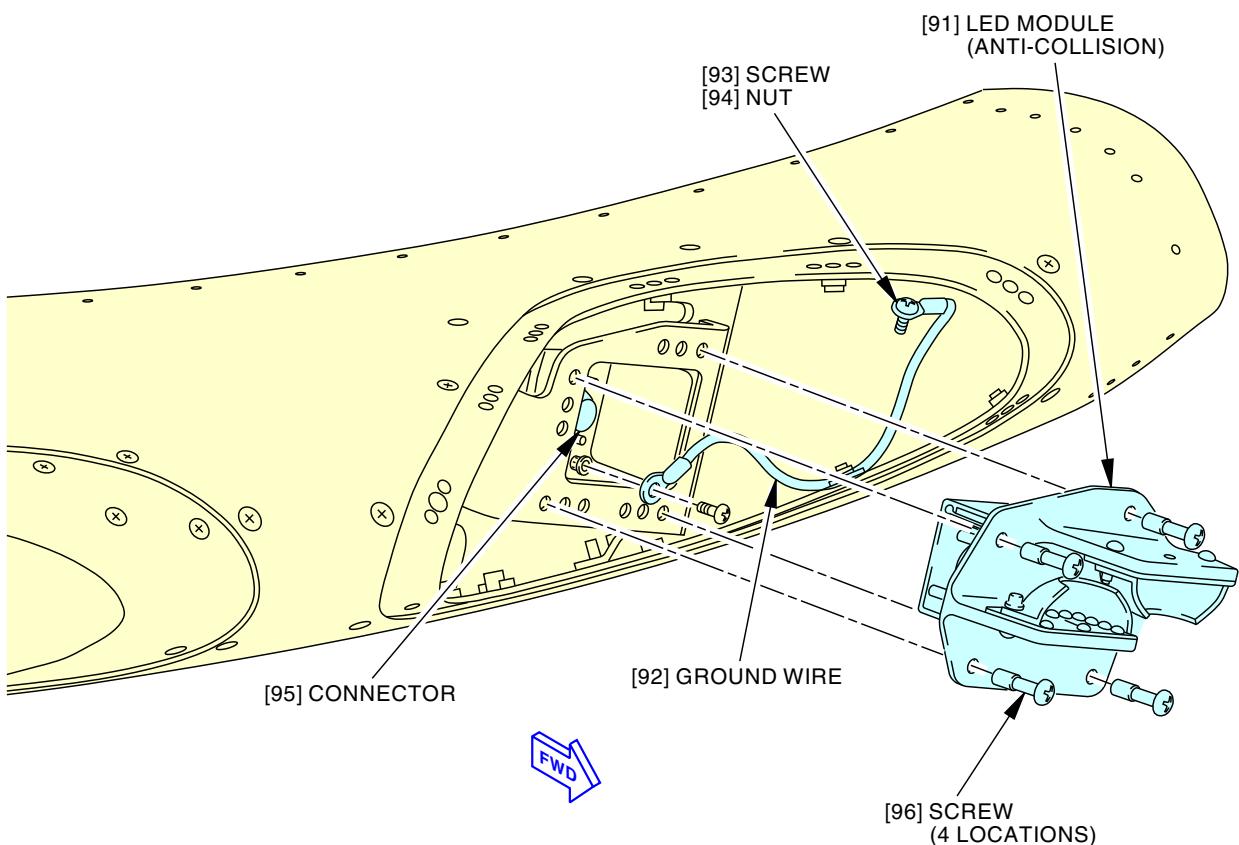
- (8) If electrical power is not necessary, do this task: Remove Electrical Power, TASK 24-22-00-860-812.

———— END OF TASK ————





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



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**Wing Anti-Collision Light - LED Module Replacement**  
**Figure 207/33-44-13-990-808**

EFFECTIVITY  
LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS

**33-44-13**



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

LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS (Continued)

**TASK 33-44-13-960-807**

**10. Wing Anti-Collision Light - LED Light Assembly Replacement**

(Figure 208)

**A. General**

(1) This task gives the instructions to replace the anti-collision LED light assembly.

**B. References**

Reference	Title
27-51-00-040-801	Trailing Edge Flap System Deactivation (P/B 201)
27-51-00-440-801	Trailing Edge Flap System Reactivation (P/B 201)
27-81-00-040-801	Leading Edge Flaps and Slats Deactivation (P/B 201)
27-81-00-440-801	Leading Edge Flaps and Slats - Activation (P/B 201)
33-44-00-710-801	Anti-Collision Lights - Operational Test (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-659	Platform - Maintenance Lift, 3 ft Minimum Height, 12.5 ft Maximum Height Part #: 1135-8000 Supplier: 00994 Opt Part #: 8662-010 Supplier: 00994
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
COM-2480	Platform - Mobile Elevating Work Platform SJ III Series Part #: SJIII 4726 Supplier: 3AF08 Part #: SJIII 4732 Supplier: 3AF08 Opt Part #: SJIII 4620 Supplier: 3AF08 Opt Part #: SJIII 4626 Supplier: 3AF08 Opt Part #: SJIII 4632 Supplier: 3AF08

**D. Consumable Materials**

Reference	Description	Specification
A00160	Sealant - Firewall - Hydraulic Fluid Resistant	BMS5-63
A50231	Sealant - Pressure And Environmental - Chromate Type	BMS5-95 Class B
A50343	Sealant - PPG Aerospace PR-1772 Class B Low Weight Fuselage Sealant	BMS5-142 Type II Class B

EFFECTIVITY  
LOM ALL

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AIRCRAFT MAINTENANCE MANUAL

LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS (Continued)

(Continued)

Reference	Description	Specification
C00528	Compound - Corrosion Preventive, Petroleum Hot Application (Soft Film)	MIL-C-11796 Class III
D50119	Lubricant - Fluorocarbon PTFE Release Agent - Miller-Stephenson MS-122DF	
D50326	Lubricant - PTFE Release Agent - Miller-Stephenson MS-122XD (Replaces MS-122DF and MS-122V Lubricants)	

**E. Location Zones**

Zone	Area
527	Left Winglet
627	Right Winglet

**F. Prepare for the Replacement**

SUBTASK 33-44-13-860-035



**WARNING** DO NOT TOUCH THE ANTI-COLLISION LIGHT FOR 10 MINUTES AFTER YOU

REMOVE ELECTRICAL POWER. AN ELECTRICAL SHOCK CAN CAUSE

INJURIES TO PERSONNEL OR DAMAGE TO EQUIPMENT.

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

**CAPT Electrical System Panel, P18-3**

Row	Col	Number	Name
A	12	C00113	EXTERIOR LIGHTING POSITION RIGHT
A	13	C00114	EXTERIOR LIGHTING POSITION LEFT
B	13	C00115	EXT LIGHTING ANTI COLLISION WHITE

SUBTASK 33-44-13-040-001

- (2) Do this task: Trailing Edge Flap System Deactivation, TASK 27-51-00-040-801.

SUBTASK 33-44-13-040-002

- (3) Do this task: Leading Edge Flaps and Slats Deactivation, TASK 27-81-00-040-801.

SUBTASK 33-44-13-480-001

- (4) Prepare a work platform, COM-2480, or maintenance platform, COM-659, as follows:

NOTE: These steps apply to all metal support equipment within a 50-foot radius of an open fuel tank.

- (a) All support equipment must be in place before you begin the procedure.
- (b) Bond the support equipment at an approved airplane bonding location.
- (c) Ground the support equipment to the same earth ground as the airplane.

**G. LED Light Assembly Replacement**

SUBTASK 33-44-13-000-001

- (1) Remove the LED light assembly [101] as follows:

- (a) Remove the lens assembly [104] from the LED light assembly [101]:
  - 1) Remove the screws [103] from the periphery of the lens assembly [104].

EFFECTIVITY  
LOM ALL

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**LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS (Continued)**

- 2) Remove the screw [105] and nut [106] to disconnect the bonding jumper [108] from the lens assembly [104].
- 3) Carefully remove the lens assembly [104] from the housing of the LED light assembly [101].
  - (b) Remove the screws [102] from the leading edge skin cutout.
  - (c) Carefully remove the LED light assembly [101] from the leading edge skin.
  - (d) Disconnect the electrical connector [107] from the LED light assembly [101].

SUBTASK 33-44-13-400-001

- (2) Install the LED light assembly [101] as follows:
  - (a) If it is necessary, disconnect the lens assembly [104] from the LED light assembly [101].  
NOTE: The new LED light assembly supplied with the lens assembly attached.
  - (b) Prepare the electrical bonding surfaces at four electrical bonding locations common to the LED light assembly [101] and leading edge skin (SWPM 20-20-00).
  - (c) Connect the electrical connector [107] to the LED light assembly [101].
  - (d) Carefully put the LED light assembly [101] in the leading edge skin cutout.
  - (e) Install the screws [102].
    - 1) Apply a compound, C00528, to all areas of the fastener holes including the countersink.
    - 2) Immediately install the screws [102].
    - 3) Tighten the screws [102] to 8 in-lb (0.9 N·m) - 12 in-lb (1.4 N·m).
  - (f) Use an intrinsically safe approved bonding meter, COM-1550, to do a check of the electrical resistance between the leading edge skin and LED light assembly [101].
    - 1) Make sure that the electrical resistance does not exceed 0.0005 ohm (0.5 milliohm).
  - (g) Install the lens assembly [104] on the LED light assembly [101]:
    - 1) Prepare the electrical bonding surfaces at four electrical bonding locations common to the lens assembly [104] and leading edge skin (SWPM 20-20-00).
    - 2) Apply a MS-122DF lubricant, D50119, or MS-122XD lubricant, D50326 to the faying surfaces of the lens assembly [104], except at electrical bonding locations.
      - a) Let the surfaces of the lens assembly [104] to dry.
    - 3) Install the screw [105] and nut [106] to attach the bonding jumper [108] to the lens assembly [104].
    - 4) Put the lens assembly [104] in its position on the LED light assembly [101].
    - 5) Use an intrinsically safe approved bonding meter, COM-1550, to do a check of the electrical resistance between the lens assembly [104] and LED light assembly [101].
      - a) Make sure that the electrical resistance does not exceed 0.0025 ohm (2.5 milliohm).
    - 6) Install the screws [103].
      - a) Tighten the screws [103] to 10 in-lb (1.1 N·m) - 18 in-lb (2.0 N·m).
      - b) Make sure that all the screws [103] are flush to +0.000 in. (0.000 mm)/-0.007 in. (0.178 mm) to the skin surface.

EFFECTIVITY  
LOM ALL

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**LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS (Continued)**

- (h) Apply an aerodynamic seal with sealant, A00160, sealant, A50231, or PR-1772 Class B Sealant, A50343 to the external gap around the lens assembly [104].

SUBTASK 33-44-13-860-036

- (3) 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>
A	12	C00113	EXTERIOR LIGHTING POSITION RIGHT
A	13	C00114	EXTERIOR LIGHTING POSITION LEFT
B	13	C00115	EXT LIGHTING ANTI COLLISION WHITE

SUBTASK 33-44-13-710-012

- (4) Do this task: Anti-Collision Lights - Operational Test, TASK 33-44-00-710-801.

**H. Put the Airplane Back to Its Usual Condition**

SUBTASK 33-44-13-080-001

- (1) Remove the work platform, COM-2480, or maintenance platform, COM-659.

SUBTASK 33-44-13-440-001

- (2) Do this task: Trailing Edge Flap System Reactivation, TASK 27-51-00-440-801.

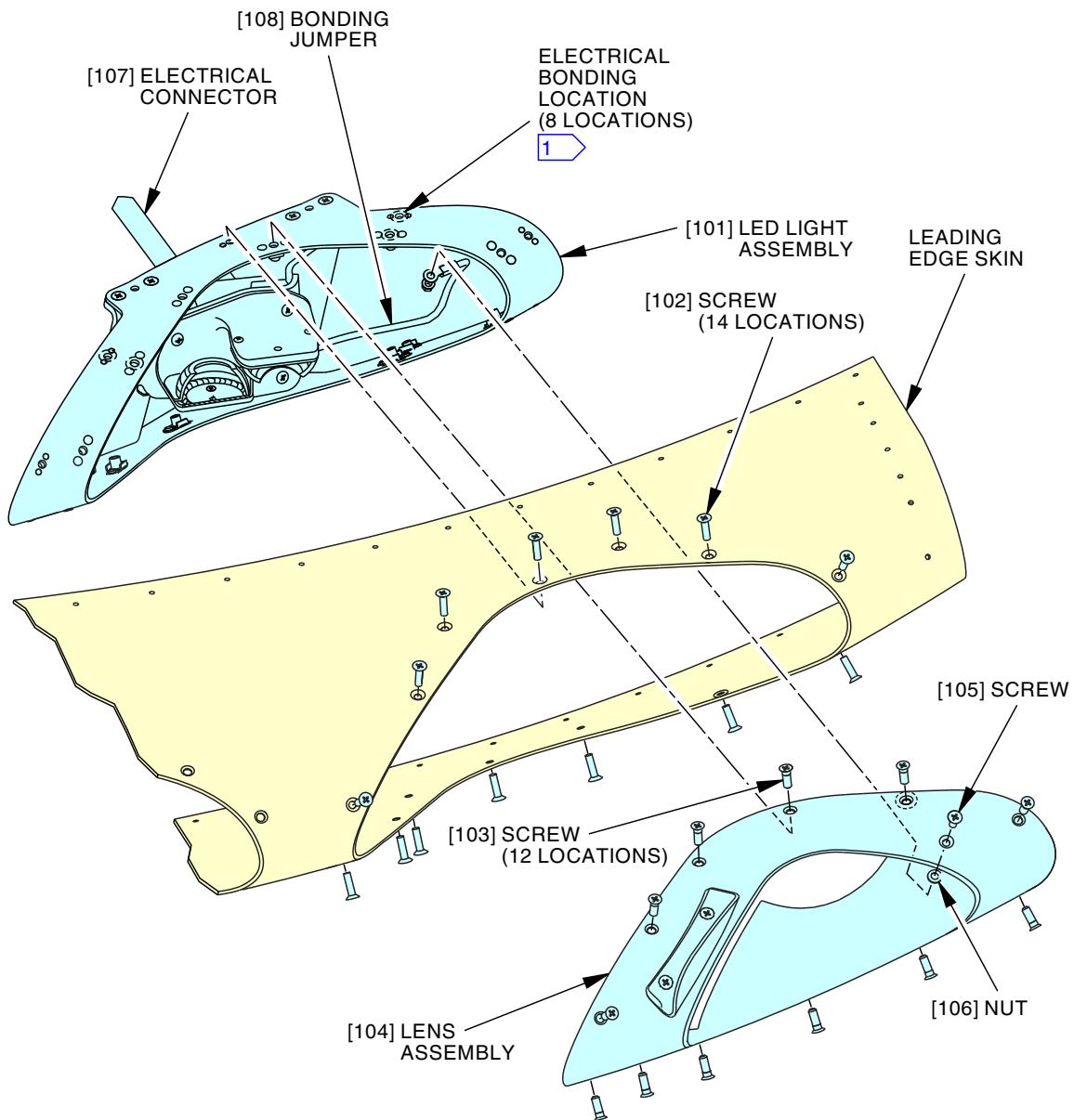
SUBTASK 33-44-13-440-002

- (3) Do this task: Leading Edge Flaps and Slats - Activation, TASK 27-81-00-440-801.

———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-44-13**

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AIRCRAFT MAINTENANCE MANUAL**


**1** THERE ARE FOUR ELECTRICAL BONDING LOCATIONS COMMON TO THE LED LIGHT ASSEMBLY AND LEADING EDGE SKIN AND FOUR ELECTRICAL BONDING LOCATIONS COMMON TO THE LENS ASSEMBLY AND LEADING EDGE SKIN.

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**Wing Anti-Collision Light - LED Light Assembly Replacement  
Figure 208/33-44-13-990-811**

EFFECTIVITY  
LOM ALL; AIRPLANES WITH LED WINGLET LIGHTS

**33-44-13**



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AIRCRAFT MAINTENANCE MANUAL

LOM ALL; AIRPLANES WITH CONVENTIONAL WINGLET LIGHTS

**TASK 33-44-13-960-808**

**11. Wing Anti-Collision Light - Light Assembly Replacement**

(Figure 209)

**A. General**

- (1) This task gives the instructions to replace the anti-collision light assembly.

**B. References**

Reference	Title
27-51-00-040-801	Trailing Edge Flap System Deactivation (P/B 201)
27-51-00-440-801	Trailing Edge Flap System Reactivation (P/B 201)
27-81-00-040-801	Leading Edge Flaps and Slats Deactivation (P/B 201)
27-81-00-440-801	Leading Edge Flaps and Slats - Activation (P/B 201)
33-44-00-710-801	Anti-Collision Lights - Operational Test (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-659	Platform - Maintenance Lift, 3 ft Minimum Height, 12.5 ft Maximum Height Part #: 1135-8000 Supplier: 00994 Opt Part #: 8662-010 Supplier: 00994
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
COM-2480	Platform - Mobile Elevating Work Platform SJ III Series Part #: SJIII 4726 Supplier: 3AF08 Part #: SJIII 4732 Supplier: 3AF08 Opt Part #: SJIII 4620 Supplier: 3AF08 Opt Part #: SJIII 4626 Supplier: 3AF08 Opt Part #: SJIII 4632 Supplier: 3AF08

**D. Consumable Materials**

Reference	Description	Specification
A00160	Sealant - Firewall - Hydraulic Fluid Resistant	BMS5-63
C00528	Compound - Corrosion Preventive, Petroleum Hot Application (Soft Film)	MIL-C-11796 Class III
D50119	Lubricant - Fluorocarbon PTFE Release Agent - Miller-Stephenson MS-122DF	

EFFECTIVITY  
LOM ALL

**33-44-13**



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**LOM ALL; AIRPLANES WITH CONVENTIONAL WINGLET LIGHTS (Continued)**

**E. Location Zones**

<b>Zone</b>	<b>Area</b>
527	Left Winglet
627	Right Winglet

**F. Prepare for the Replacement**

SUBTASK 33-44-13-860-038



**WARNING**

DO NOT TOUCH THE ANTI-COLLISION LIGHT FOR 10 MINUTES AFTER YOU REMOVE ELECTRICAL POWER. AN ELECTRICAL SHOCK CAN CAUSE INJURIES TO PERSONNEL OR DAMAGE TO EQUIPMENT.

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

**CAPT Electrical System Panel, P18-3**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
A	12	C00113	EXTERIOR LIGHTING POSITION RIGHT
A	13	C00114	EXTERIOR LIGHTING POSITION LEFT
B	13	C00115	EXT LIGHTING ANTI COLLISION WHITE

SUBTASK 33-44-13-040-003

- (2) Do this task: Trailing Edge Flap System Deactivation, TASK 27-51-00-040-801.

SUBTASK 33-44-13-040-004

- (3) Do this task: Leading Edge Flaps and Slats Deactivation, TASK 27-81-00-040-801.

SUBTASK 33-44-13-480-002

- (4) Prepare a work platform, COM-2480, or maintenance platform, COM-659, as follows:

NOTE: These steps apply to all metal support equipment within a 50-foot radius of an open fuel tank.

- (a) All support equipment must be in place before you begin the procedure.
- (b) Bond the support equipment at an approved airplane bonding location.
- (c) Ground the support equipment to the same earth ground as the airplane.

**G. Light Assembly Replacement**

SUBTASK 33-44-13-000-002

- (1) Remove the anti-collision assembly [109] as follows:

- (a) Remove the lens assembly [104] from the anti-collision assembly [109].
  - 1) Remove the screws [103] from the periphery of the lens assembly [104].
  - 2) Remove the screw [105] and nut [106] to disconnect the bonding jumper [108] from the lens assembly [104].
  - 3) Carefully remove the lens assembly [104] from the housing of the anti-collision assembly [109].
- (b) Remove the screws [102] from the leading edge skin cutout.
- (c) Carefully remove the anti-collision assembly [109] from the leading edge skin.
- (d) Disconnect the electrical connector [107] from the anti-collision assembly [109].



**33-44-13**



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

**LOM ALL; AIRPLANES WITH CONVENTIONAL WINGLET LIGHTS (Continued)**

SUBTASK 33-44-13-400-002

- (2) Install the anti-collision assembly [109] as follows:
- If it is necessary, disconnect the lens assembly [104] from the anti-collision assembly [109].

NOTE: The new light assembly supplied with the lens assembly attached.
  - Prepare the electrical bonding surfaces at four electrical bonding locations common to the anti-collision assembly [109] and leading edge skin (SWPM 20-20-00).
  - Connect the electrical connector [107] to the anti-collision assembly [109].
  - Carefully put the anti-collision assembly [109] in the leading edge skin cutout.
  - Install the screws [102].
    - Apply a compound, C00528, to all areas of the fastener holes including the countersink.
    - Immediately install the screws [102].
    - Tighten the screws [102] to 8 in-lb (0.9 N·m) - 12 in-lb (1.4 N·m).
  - Use an intrinsically safe approved bonding meter, COM-1550, to do a check of the electrical resistance between the leading edge skin and anti-collision assembly [109].
    - Make sure that the electrical resistance does not exceed 0.0005 ohm (0.5 milliohm).
  - Install the lens assembly [104] on the anti-collision assembly [109]:
    - Prepare the electrical bonding surfaces at four electrical bonding locations common to the lens assembly [104] and leading edge skin (SWPM 20-20-00).
    - Apply a MS-122DF lubricant, D50119, to the faying surfaces of the lens assembly [104], except at electrical bonding locations.
      - Let the surfaces of the lens assembly [104] to dry.
    - Install the screw [105] and nut [106] to attach the bonding jumper [108] to the lens assembly [104].
    - Put the lens assembly [104] in its position on the anti-collision assembly [109].
    - Use an intrinsically safe approved bonding meter, COM-1550, to do a check of the electrical resistance between the lens assembly [104] and anti-collision assembly [109].
      - Make sure that the electrical resistance does not exceed 0.0025 ohm (2.5 milliohm).
    - Install the screws [103].
      - Tighten the screws [103] to 10 in-lb (1.1 N·m) - 18 in-lb (2.0 N·m).
      - Make sure that all the screws [103] are flush to +0.000 in. (0.000 mm)/-0.007 in. (0.178 mm) to the skin surface.
  - Apply a sealant, A00160, to the external gap around the lens assembly [104].

SUBTASK 33-44-13-860-039

- (3) 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>
A	12	C00113	EXTERIOR LIGHTING POSITION RIGHT

EFFECTIVITY  
LOM ALL

**33-44-13**



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**LOM ALL; AIRPLANES WITH CONVENTIONAL WINGLET LIGHTS (Continued)**

(Continued)

**CAPT Electrical System Panel, P18-3**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	13	C00114	EXTERIOR LIGHTING POSITION LEFT
B	13	C00115	EXT LIGHTING ANTI COLLISION WHITE

SUBTASK 33-44-13-710-013

- (4) Do this task: Anti-Collision Lights - Operational Test, TASK 33-44-00-710-801.

**H. Put the Airplane Back to Its Usual Condition**

SUBTASK 33-44-13-080-002

- (1) Remove the work platform, COM-2480, or maintenance platform, COM-659.

SUBTASK 33-44-13-440-003

- (2) Do this task: Trailing Edge Flap System Reactivation, TASK 27-51-00-440-801.

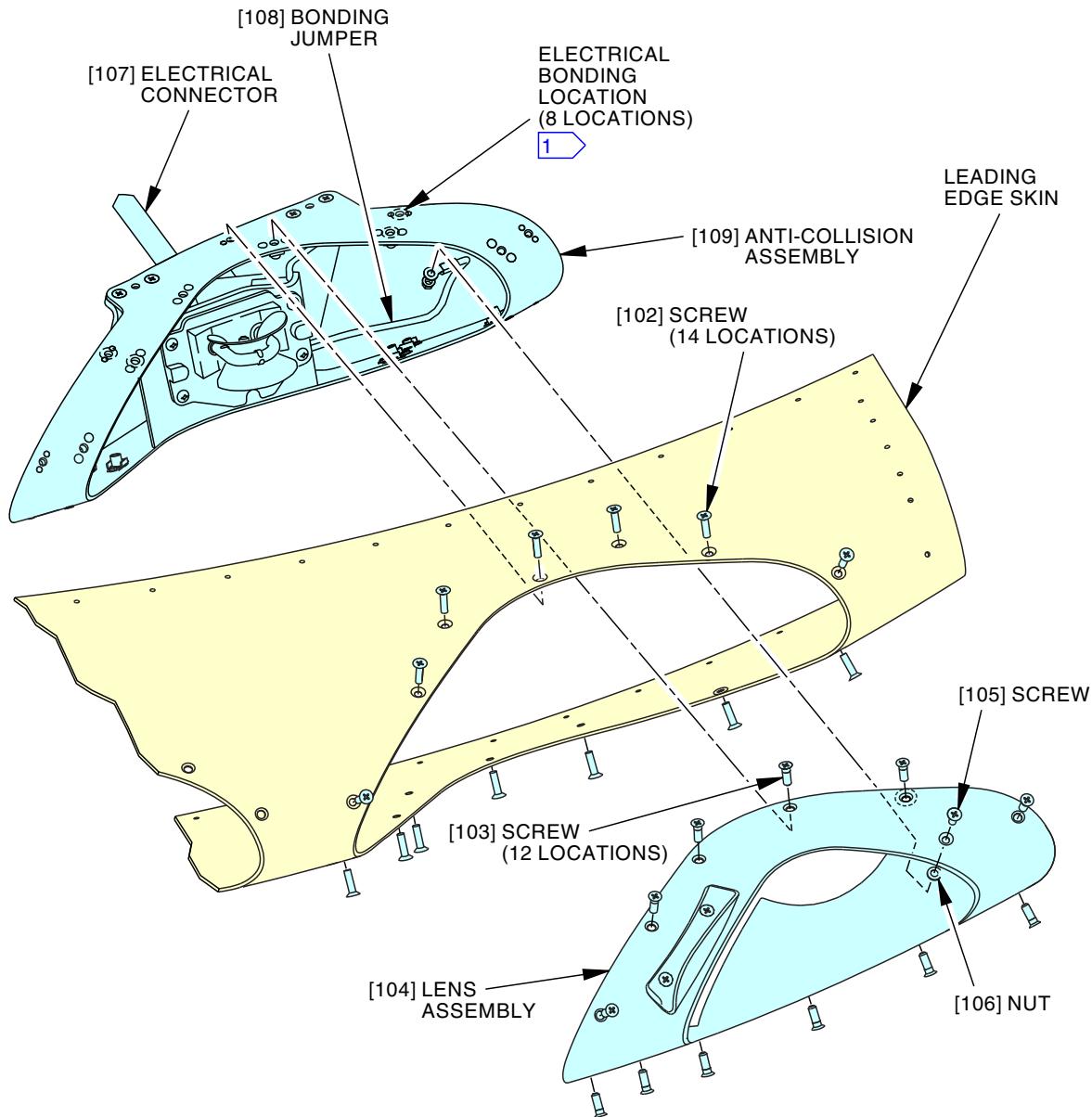
SUBTASK 33-44-13-440-004

- (3) Do this task: Leading Edge Flaps and Slats - Activation, TASK 27-81-00-440-801.

———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-44-13**



**1** THERE ARE FOUR ELECTRICAL BONDING LOCATIONS COMMON TO THE LED LIGHT ASSEMBLY AND LEADING EDGE SKIN AND FOUR ELECTRICAL BONDING LOCATIONS COMMON TO THE LENS ASSEMBLY AND LEADING EDGE SKIN.

AP737-33-007

2936790 S0000712505\_V1

### Wing Anti-Collision Light - Light Assembly Replacement

Figure 209/33-44-13-990-812

EFFECTIVITY  
LOM ALL; AIRPLANES WITH CONVENTIONAL  
WINGLET LIGHTS

**33-44-13**

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TAXI LIGHT - MAINTENANCE PRACTICES

**1. General**

- A. This procedure has these tasks:
- (1) Taxi light deactivation
  - (2) Taxi light activation
  - (3) A replacement of the taxi light lamp
  - (4) A removal of the taxi light housing assembly
  - (5) An installation of the taxi light housing assembly
  - (6) A temporary repair of the nose landing gear taxi light lens.

**TASK 33-45-01-040-801**

**2. Taxi Light - Deactivation**

(Figure 201)

**A. General**

- (1) This task removes electrical power to the taxi light.

**B. References**

Reference	Title
32-00-01-480-801	Landing Gear Downlock Pins Installation (P/B 201)

**C. Location Zones**

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right
713	Nose Landing Gear

**D. Taxi Light Deactivation**

SUBTASK 33-45-01-860-024



MAKE SURE THAT THE DOWNLOCK PINS ARE INSTALLED IN ALL OF THE LANDING GEAR. WITHOUT THE DOWNLOCK PINS, THE LANDING GEAR CAN RETRACT AND CAUSE INJURIES TO PERSONS AND DAMAGE TO EQUIPMENT.

- (1) If the downlock pins are not installed in the nose and main landing gear, do this task: Landing Gear Downlock Pins Installation, TASK 32-00-01-480-801.

SUBTASK 33-45-01-860-012

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

**CAPT Electrical System Panel, P18-3**

Row	Col	Number	Name
D	14	C00123	EXT LIGHTING NOSE GEAR TAXI

**E. Taxi Light - Tryout**

NOTE: This tryout is to make sure that the taxi light is in a zero energy state.

SUBTASK 33-45-01-700-001

- (1) Set the taxi light switch, on the P5 overhead panel, to the ON mode.

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-461

**33-45-01**

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- (a) Make sure that the taxi light does not come on.

———— END OF TASK ——

———— EFFECTIVITY ——  
**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-461**

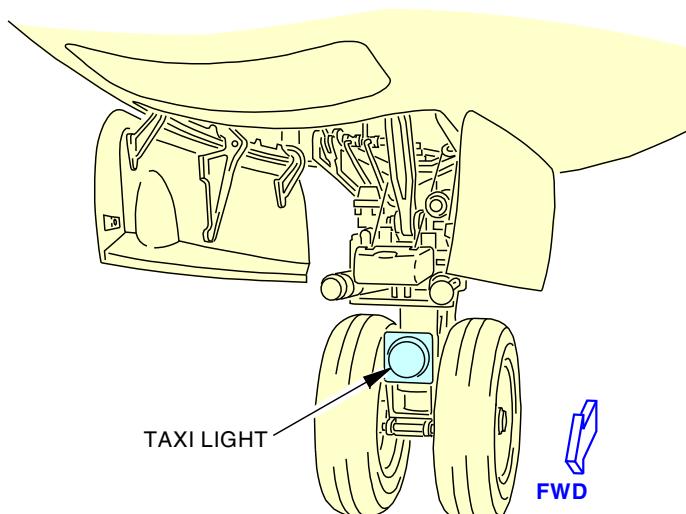
**33-45-01**

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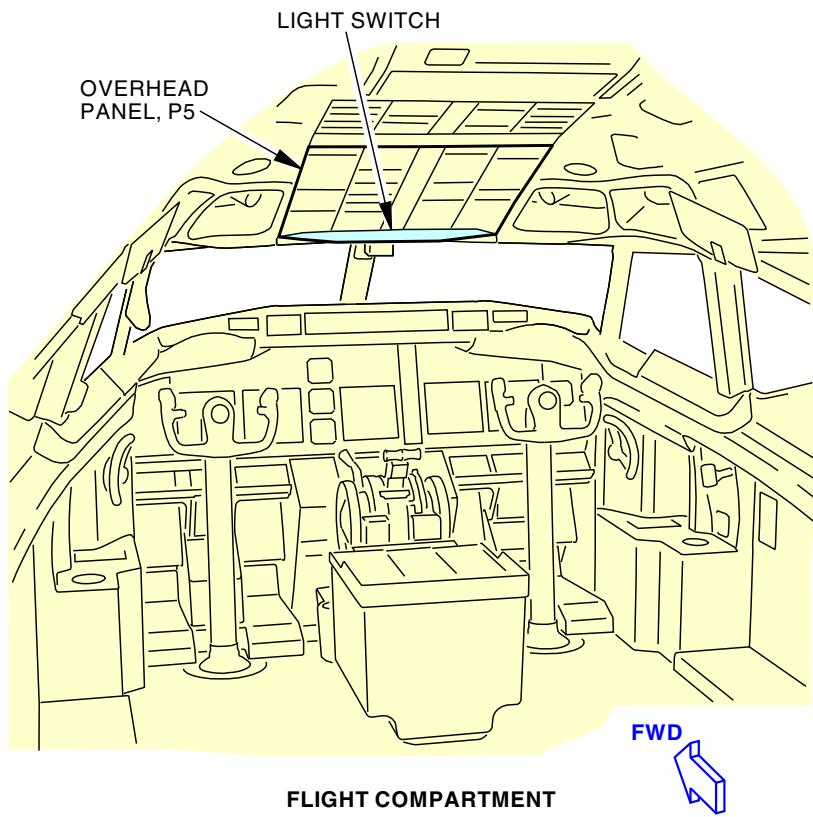
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NOSE LANDING GEAR



FLIGHT COMPARTMENT

2387508 S0000544898\_V1

Taxi Light  
Figure 201/33-45-01-990-804

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-461

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**TASK 33-45-01-440-801**

**3. Taxi Light - Activation**

(Figure 201)

**A. General**

- (1) This task adds electrical power to the taxi light.

**B. Location Zones**

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right
713	Nose Landing Gear

**C. Taxi Light Activation**

SUBTASK 33-45-01-860-013

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

**CAPT Electrical System Panel, P18-3**

Row	Col	Number	Name
D	14	C00123	EXT LIGHTING NOSE GEAR TAXI

———— END OF TASK ————

**TASK 33-45-01-960-801**

**4. Taxi Light - Lamp Replacement**

(Figure 202)

**A. References**

Reference	Title
32-00-01-080-801	Landing Gear Downlock Pins Removal (P/B 201)
32-00-01-480-801	Landing Gear Downlock Pins Installation (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-1499	Pin - Lock, NLG Towing Lever
	Part #: A09003-2 Supplier: 81205
	Opt Part #: A09003-1 Supplier: 81205

**C. Consumable Materials**

Reference	Description	Specification
A50542	Adhesive - Elastosil E952 adhesive paste	
A50604	Adhesive - Sealant, Elastosil E43 Transparent RTV-1 Silicone Rubber Adhesive	
B50073	Alcohol - Isopropyl	ASTM D 770
B50276	Cleaner - Aqueous - ArmaKleen M-HP-2	MIL-C-29602 TYPE I
G02186	Seal - Closed Cell Silicone Foam Rubber, Hydraulic Fluid Resistant	BMS1-68 Form III
G51844	Cloth - Cleaning, Low-Lint (Clean Room Use)	A-A-59323 Type I

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-461

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D. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
4	Pad	33-45-01-04-135	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461
6	Lamp	33-45-01-04-040	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461

E. Location Zones

Zone	Area
713	Nose Landing Gear

F. Taxi Light Lamp Replacement

SUBTASK 33-45-01-860-014



**WARNING**

MAKE SURE THAT THE DOWNLOCK PINS ARE INSTALLED IN ALL OF THE LANDING GEAR. WITHOUT THE DOWNLOCK PINS, THE LANDING GEAR CAN RETRACT AND CAUSE INJURIES TO PERSONS AND DAMAGE TO EQUIPMENT.

- (1) If the downlock pins are not installed in the nose and main landing gear, do this task: Landing Gear Downlock Pins Installation, TASK 32-00-01-480-801.

SUBTASK 33-45-01-860-015

- (2) Install the NLG towing lever pin, SPL-1499, in the nose wheel steering mechanism (TASK 32-00-01-480-801).

NOTE: Nose Landing Gear (NLG) will move when you operate the rudder pedals. Installation of the towing lever pin prevents NLG movement.

SUBTASK 33-45-01-860-002

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

**CAPT Electrical System Panel, P18-3**

Row	Col	Number	Name
D	14	C00123	EXT LIGHTING NOSE GEAR TAXI

SUBTASK 33-45-01-960-001

- (4) Do these steps to replace the lamp [6]:
  - (a) Remove the screws [1] and retainer [2] assembly.
  - (b) Pull out the lamp [6].
  - (c) Disconnect the electrical wires [5] from the lamp terminals [3] behind the lamp [6].
    - 1) Remove all dirt and corrosion from the ends of the electrical wires [5].
  - (d) Examine the pads [4] on the housing.
    - 1) If one of the pads [4] is damaged, replace it, do the steps that follow:
      - a) Remove and discard the damaged pad [4].
      - b) Use low-lint cleaning cloth, G51844, soaked with ArmaKleen M-HP-2 cleaner, B50276, to remove old adhesive residue from the housing.
      - c) Clean the contact area with alcohol, B50073.

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-461

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**WARNING**

DO NOT GET ADHESIVE IN YOUR MOUTH, EYES, OR ON YOUR SKIN. DO NOT BREATHE THE ADHESIVE FUMES. KEEP THE ADHESIVE AWAY FROM SPARKS, FLAMES AND HEAT. PUT ON A RESPIRATOR, PROTECTIVE SPLASH GOGGLES, AN APRON, AND GLOVES WHEN YOU USE ADHESIVE. IF YOU DO NOT OBEY THESE INSTRUCTIONS, INJURIES TO PERSONS AND DAMAGE TO EQUIPMENT COULD OCCUR.

- d) Apply adhesive, A50542, or Elastosil E43 adhesive, A50604, to the contact area of the pad [4] and housing.
    - <1> Use low-lint cleaning cloth, G51844, to remove excess adhesive.
  - e) Put the new pad [4] on the housing (View B, Figure 202).
  - f) Put a flat plate on the pad [4].
    - <1> Use clamps to apply equal pressure on the flat plate and let it air dry for 4 hours.
    - <2> Make sure that the clamps do not apply too much pressure.

NOTE: Too much pressure causes the adhesive to push out of the bond line.
- (e) Connect the electrical wires [5] to the new lamp [6].
- (f) Make sure that the gasket [7] and gasket [28] in the retainer [2] assembly are not damaged.
- NOTE: Gaskets can become hard and have cracks when soaked in heat.
- 1) If gasket [7], gasket [28] and retainer [2] assembly are damaged, replace the retainer [2] assembly.

NOTE: Retainer assembly contains the gaskets.
  - 2) If damage on gasket [7] and gasket [28] is detected and there is no damage found on retainer [2], replace only gaskets as a pair.

NOTE: Retainer assembly contains the gasket [7] and gasket [28].

NOTE: Replacement of the whole retainer assembly with both gaskets is also acceptable.
  - 3) If gasket [7] and gasket [28] are damaged and new gasket [7], gasket [28] and new retainer [2] assembly are not available for replacement, do these steps to install temporary gaskets around the new lamp:
    - a) Use seal, G02186, as a gasket to wind it completely around the edge of the new lamp [6] without stretching the material.

NOTE: Leave an approximately equal amount of gasket material around both sides of the lamp.
    - b) Fold the gasket edges around the sides of the lamp [6] to fit in the retainer [2] assembly, being careful not to cover too much of the front of the lamp [6].



**CAUTION**

ALIGN THE RETAINER AND LAMP CORRECTLY. IF YOU ALIGN THEM INCORRECTLY, YOU WILL BREAK THE LAMP WHEN YOU TIGHTEN THE SCREWS ON THE RETAINER.

- (g) Align the retainer [2] assembly and lamp [6] against the housing.

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-461

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- 1) Install the lamp [6] with the FOG designator located on the bottom and/or such that the bulb filament is oriented in the horizontal position.
- (h) Install the screws [1].

SUBTASK 33-45-01-860-003

- (5) 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	14	C00123	EXT LIGHTING NOSE GEAR TAXI

SUBTASK 33-45-01-710-001

- (6) Do a test of the new lamp [6].
  - (a) Set the switch for the taxi light, on the P5 overhead panel, to the ON or AUTO mode.
    - 1) Make sure that the new lamp [6] comes on.
  - (b) Set the switch to the OFF mode.
    - 1) Make sure that the lamp [6] goes off.

SUBTASK 33-45-01-860-021

- (7) Remove the NLG towing lever pin, SPL-1499, from the nose wheel steering mechanism (TASK 32-00-01-080-801).

———— END OF TASK ————

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-461

**33-45-01**

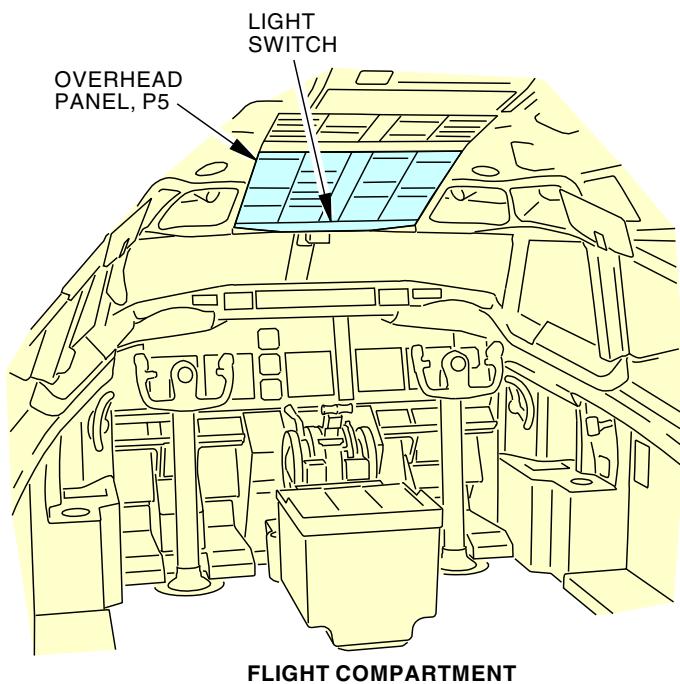
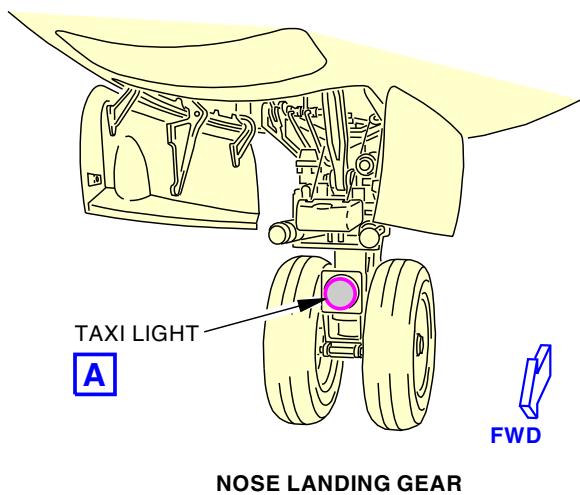
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**Taxi Light - Lamp Replacement**  
Figure 202/33-45-01-990-801 (Sheet 1 of 3)

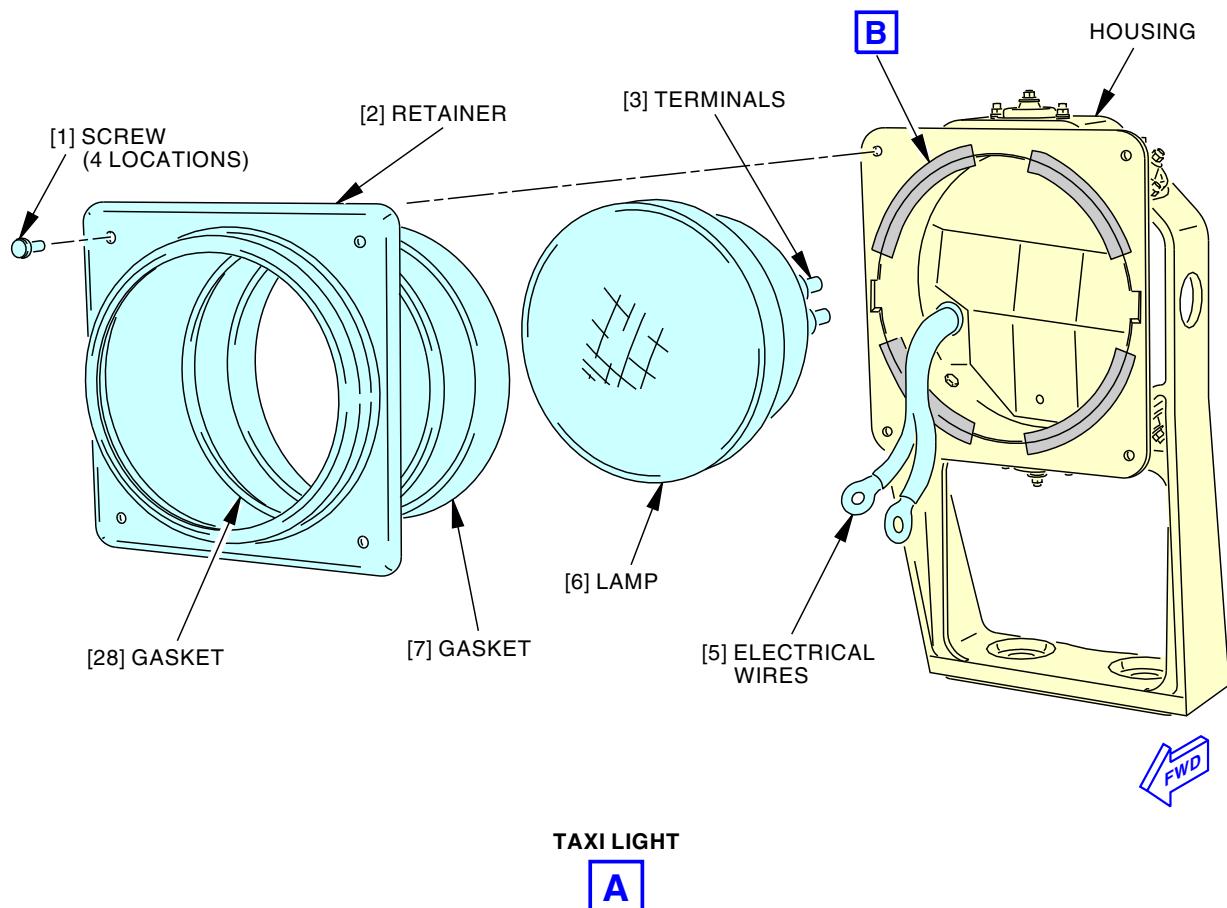
EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-461

**33-45-01**

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FWD

F96127 S0006576317\_V5

**Taxi Light - Lamp Replacement**  
**Figure 202/33-45-01-990-801 (Sheet 2 of 3)**

EFFECTIVITY  
 LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
 422-434, 437-447, 450-461

**33-45-01**

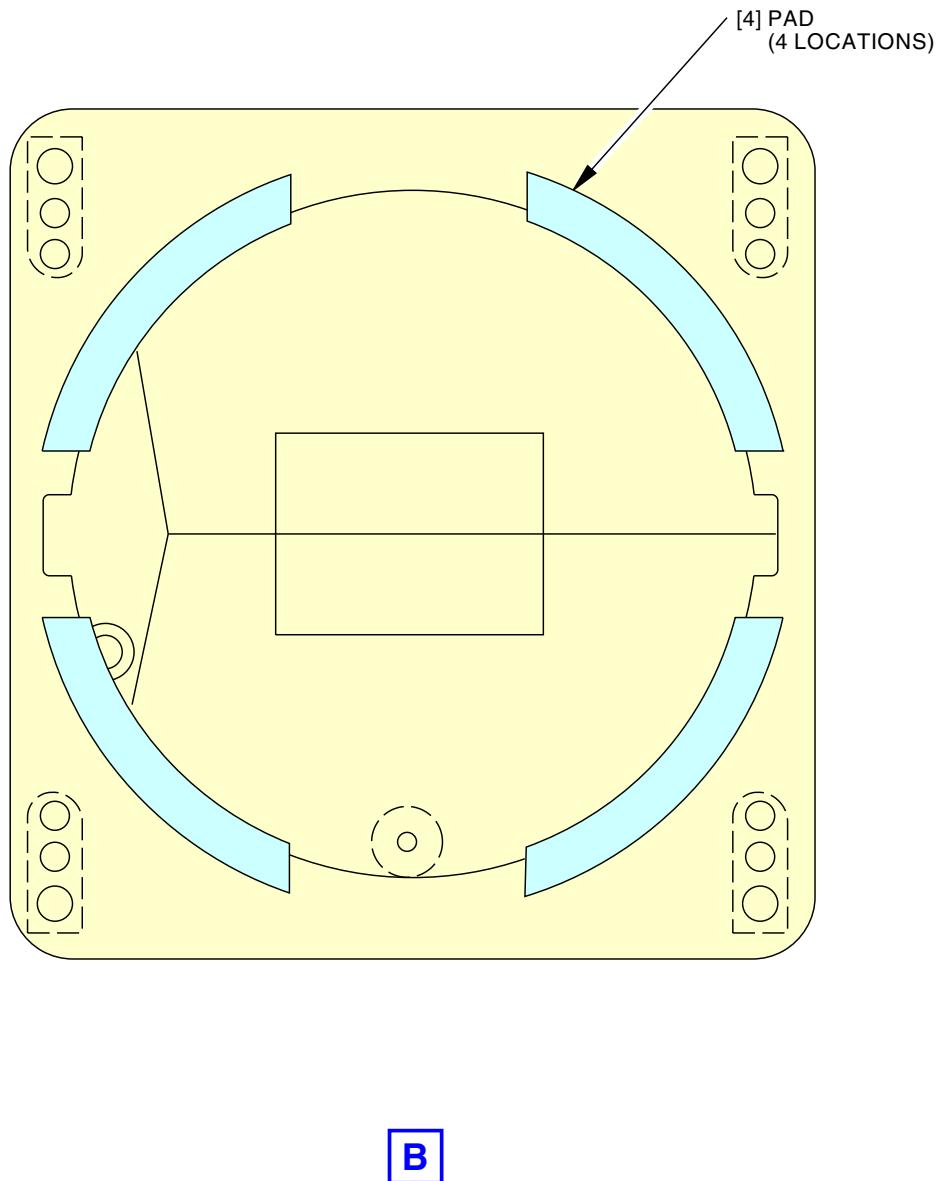
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AIRCRAFT MAINTENANCE MANUAL



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Taxi Light - Lamp Replacement  
Figure 202/33-45-01-990-801 (Sheet 3 of 3)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-461

**33-45-01**

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**TASK 33-45-01-000-801**

**5. Taxi Light Housing Assembly - Removal**

(Figure 202 and Figure 203)

**A. References**

Reference	Title
32-00-01-480-801	Landing Gear Downlock Pins Installation (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-1499	Pin - Lock, NLG Towing Lever
	Part #: A09003-2 Supplier: 81205
	Opt Part #: A09003-1 Supplier: 81205

**C. Location Zones**

Zone	Area
713	Nose Landing Gear

**D. Taxi Light Housing Assembly Removal**

SUBTASK 33-45-01-860-016



**WARNING**

MAKE SURE THAT THE DOWNLOCK PINS ARE INSTALLED IN ALL OF THE LANDING GEAR. WITHOUT THE DOWNLOCK PINS, THE LANDING GEAR CAN RETRACT AND CAUSE INJURIES TO PERSONS AND DAMAGE TO EQUIPMENT.

- (1) If the downlock pins are not installed in the nose and main landing gear, do this task: Landing Gear Downlock Pins Installation, TASK 32-00-01-480-801.

SUBTASK 33-45-01-860-017

- (2) Install the NLG towing lever pin, SPL-1499, in the nose wheel steering mechanism (TASK 32-00-01-480-801).

NOTE: Nose Landing Gear (NLG) will move when the rudder pedals are moved. To prevent NLG movement, install a lockout pin in the nose wheel steering mechanism.

SUBTASK 33-45-01-860-007

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

**CAPT Electrical System Panel, P18-3**

Row	Col	Number	Name
D	14	C00123	EXT LIGHTING NOSE GEAR TAXI

SUBTASK 33-45-01-020-001

- (4) Do the steps to remove the taxi light housing assembly [9]:

- (a) Remove the screws [1] and retainer [2] with the gasket [28] and gasket [7].

NOTE: Keep the hardware for installation.

NOTE: The retainer assembly contains the gaskets.

- (b) Pull out the lamp [6].

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-461

**33-45-01**



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

- (c) Remove the screws [23] to disconnect the electrical wires [5] from the lamp terminals [3] behind the lamp [6].

NOTE: Keep the hardware for installation.

- 1) Remove all dirt and corrosion from the ends of the electrical wires [5].

SUBTASK 33-45-01-020-002

- (5) Disconnect and remove the light wire harness [8] from the taxi light housing assembly [9] and inner cylinder as follows:

- (a) Remove the lockwire [10] from the electrical harness backshell [11].

- (b) Loosen the electrical harness backshell [11] from the housing through fitting [12].

- (c) Pull the wires from the taxi light housing assembly [9].

- (d) Remove the screw [13], washers [14], nut [15], and clamp [16] from the taxi light housing assembly [9] and the light wire harness [8].

NOTE: Keep hardware for installation.

- (e) Remove the nut [24], washer [25], spacer [29] and clamp [16] from the inner cylinder.

NOTE: Keep hardware for installation.

SUBTASK 33-45-01-020-003

- (6) Remove the bolts [17], washers [18], washers [19], and nuts [20] from the taxi light housing assembly [9], tow fitting and inner cylinder.

NOTE: Keep the hardware for installation.

- (a) Remove the taxi light housing assembly [9] and shim [22].

———— END OF TASK ————

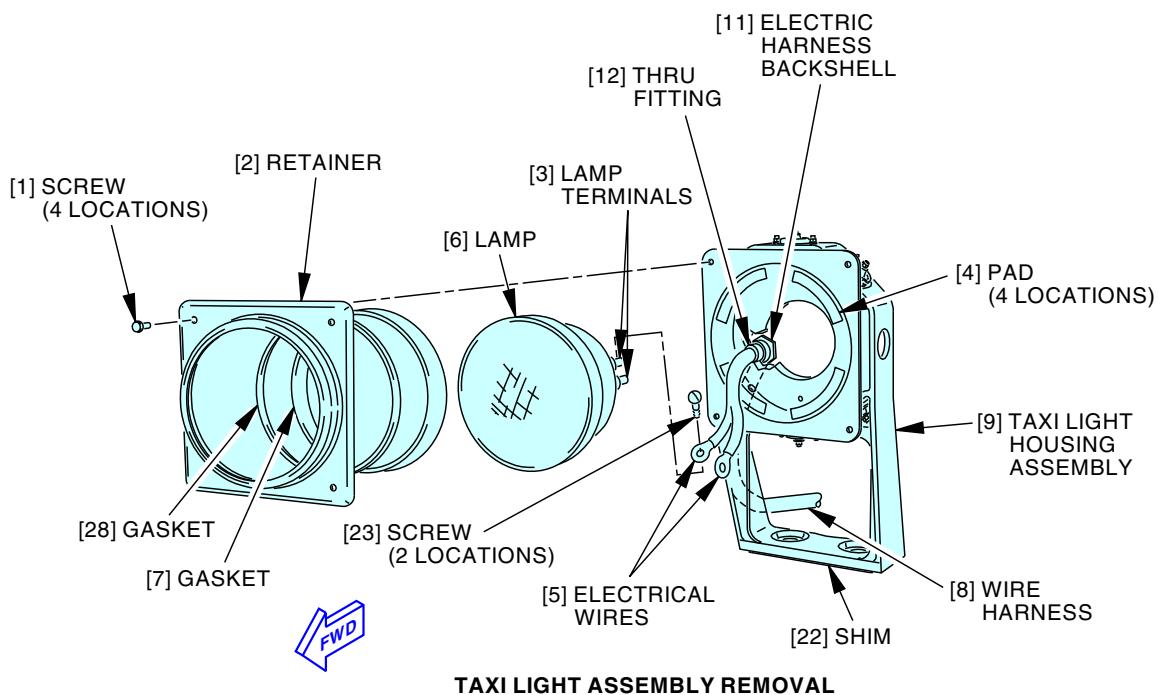
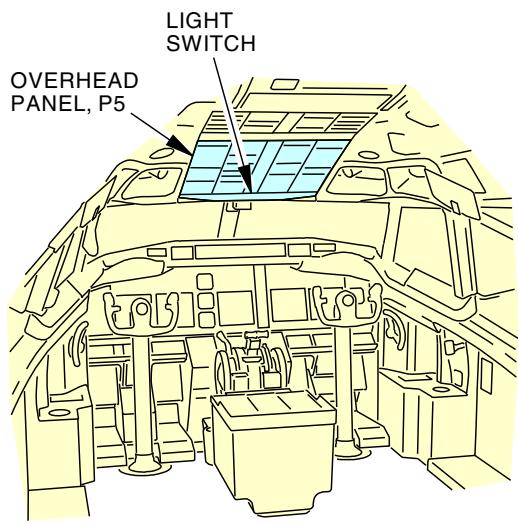
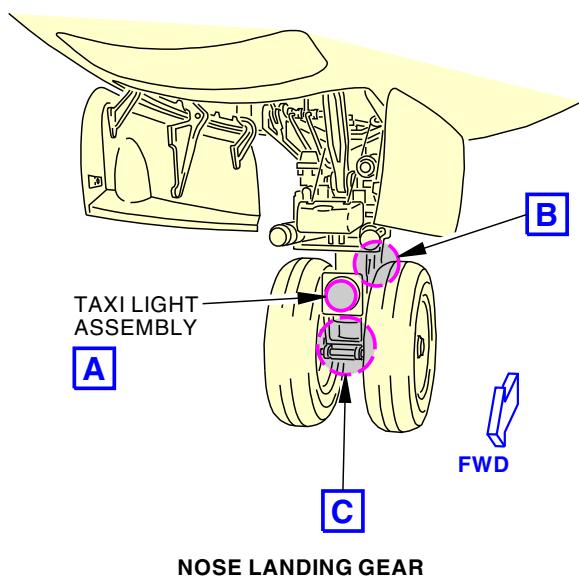
EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-461

**33-45-01**

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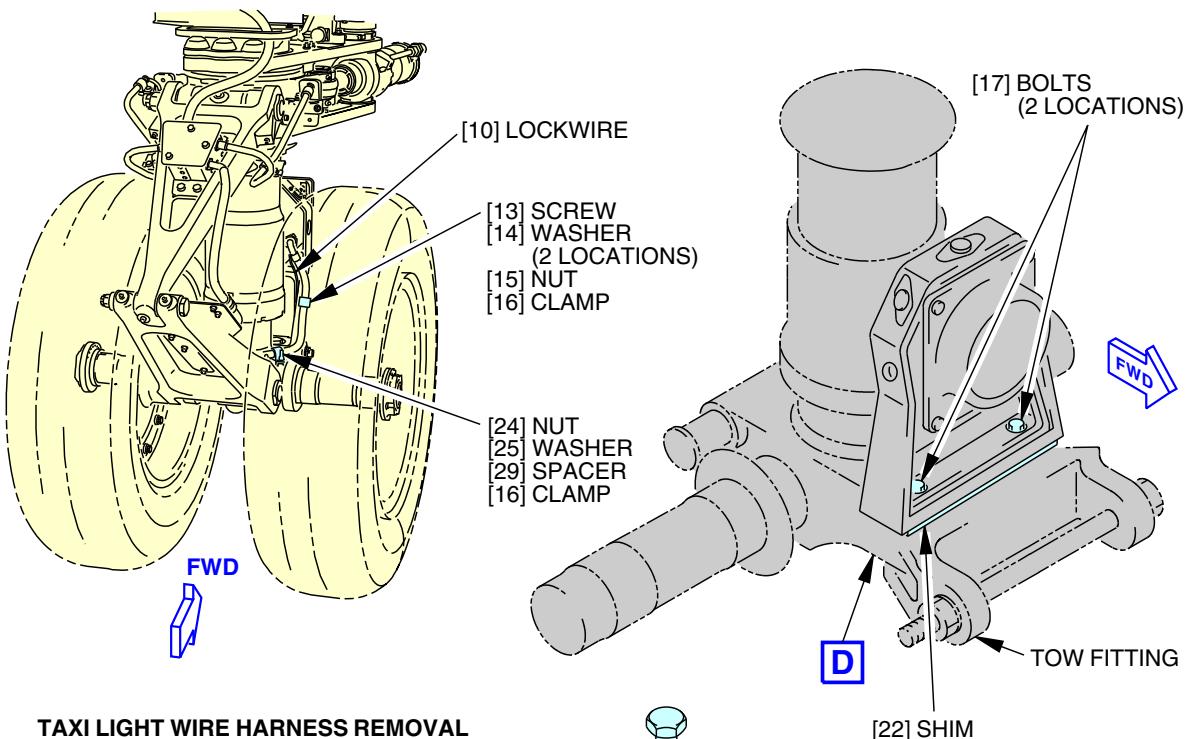
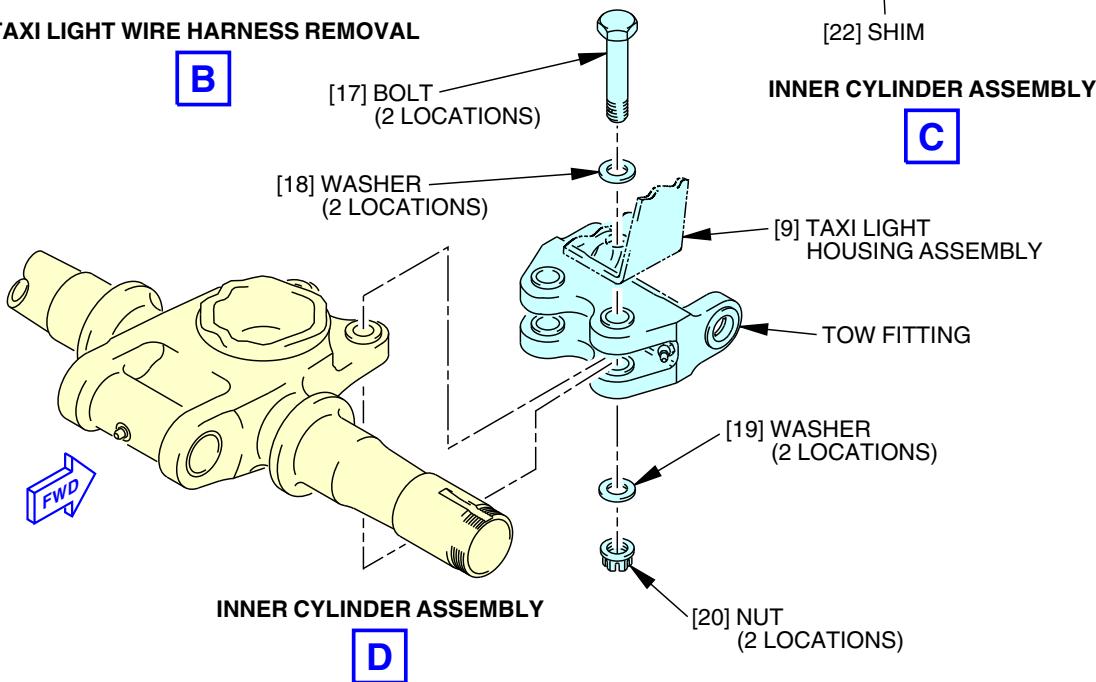
**A**

D31219 S0000149588\_V3

**Taxi Light Housing Assembly - Installation  
Figure 203/33-45-01-990-802 (Sheet 1 of 2)**

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-461

**33-45-01**


**TAXI LIGHT WIRE HARNESS REMOVAL**


D31312 S0000149833\_V5

**Taxi Light Housing Assembly - Installation  
Figure 203/33-45-01-990-802 (Sheet 2 of 2)**

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-461

**33-45-01**

D633A101-LOM



**737-600/700/800/900**  
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**TASK 33-45-01-400-801**

**6. Taxi Light Housing Assembly - Installation**

(Figure 202 and Figure 203)

**A. References**

Reference	Title
32-00-01-080-801	Landing Gear Downlock Pins 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
SPL-1499	Pin - Lock, NLG Towing Lever
	Part #: A09003-2 Supplier: 81205
	Opt Part #: A09003-1 Supplier: 81205

**C. Consumable Materials**

Reference	Description	Specification
A50542	Adhesive - Elastosil E952 adhesive paste	
A50604	Adhesive - Sealant, Elastosil E43 Transparent RTV-1 Silicone Rubber Adhesive	
B50073	Alcohol - Isopropyl	ASTM D 770
B50276	Cleaner - Aqueous - ArmaKleen M-HP-2	MIL-C-29602 TYPE I
G02186	Seal - Closed Cell Silicone Foam Rubber, Hydraulic Fluid Resistant	BMS1-68 Form III
G51844	Cloth - Cleaning, Low-Lint (Clean Room Use)	A-A-59323 Type I

**D. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
6	Lamp	33-45-01-04-040	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461
9	Taxi light housing assembly	33-45-01-04-010	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461

**E. Taxi Light Housing Assembly Installation**

SUBTASK 33-45-01-210-001

- (1) Examine the pads [4] on the taxi light housing assembly [9].

- (a) If you find damage on a pad [4], you must replace it:

- 1) Remove and discard the damaged pad [4].
- 2) Use low-lint cleaning cloth, G51844, soaked with ArmaKleen M-HP-2 cleaner, B50276, to remove the old adhesive residue from the taxi light housing assembly [9].
- 3) Clean the contact area with alcohol, B50073.

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-461

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**WARNING**

DO NOT GET ADHESIVE IN YOUR MOUTH, EYES, OR ON YOUR SKIN. DO NOT BREATHE THE ADHESIVE FUMES. KEEP THE ADHESIVE AWAY FROM SPARKS, FLAMES AND HEAT. PUT ON A RESPIRATOR, PROTECTIVE SPLASH GOGGLES, AN APRON, AND GLOVES WHEN YOU USE ADHESIVE. IF YOU DO NOT OBEY THESE INSTRUCTIONS, INJURIES TO PERSONS AND DAMAGE TO EQUIPMENT COULD OCCUR.

- 4) Apply adhesive, A50542, or Elastosil E43 adhesive, A50604, to the contact area of the pad [4] and taxi light housing assembly [9].
  - a) Use low-lint cleaning cloth, G51844, to remove the excess adhesive.
- 5) Put the pad [4] on the taxi light housing assembly [9] (View B, Figure 202).
- 6) Put the taxi light housing assembly [9] upside down on a flat surface.
- 7) Let the adhesive dry for 4 hours at ambient temperature.
  - a) Make sure to apply equal pressure to each side of the pads [4] during the cure time for the adhesive.

SUBTASK 33-45-01-420-001

- (2) Do the steps to install the taxi light housing assembly [9]:
  - (a) Examine the shim [22] for damage.
    - 1) If damaged, replace the shim [22].
  - (b) Align the taxi light housing assembly [9] and shim [22] with inner cylinder and tow fitting.
  - (c) Install the bolts [17], washers [18], washers [19], and nuts [20].
  - (d) Tighten the nuts [20] to 250 in-lb (28 N·m) - 300 in-lb (34 N·m) above the run on torque.
  - (e) Install the clamp [16] and spacer [29] with the wire harness [8] to the inner cylinder with nut [24] and washer [25].
  - (f) Install the wire harness [8] with clamp [16], screw [13], washers [14], and nut [15] to the taxi light housing assembly [9].
  - (g) Pull the electrical wires [5] through the taxi light housing assembly [9].
  - (h) Attach the electrical harness backshell [11] to the housing through fitting [12].
  - (i) Install the lockwire [10] from the electrical harness backshell [11] to the head of screw [13].

SUBTASK 33-45-01-420-002

- (3) Do the steps to install the lamp [6]:
  - (a) Connect the electrical wires [5] to lamp terminal [3] behind the lamp [6] with screws [23].
  - (b) Make sure that the gasket [7] and gasket [28] in the retainer [2] assembly are not damaged.

NOTE: Gaskets can become hard and have cracks because of the heat absorbed from the lamp.
  - (c) If you find damage on the gasket [7], gasket [28] and the retainer [2] assembly, replace the retainer [2] assembly.

NOTE: The retainer assembly contains the gaskets.
  - (d) If you find damage on gasket [7] and gasket [28] and there is no damage on the retainer [2], only replace the gaskets.

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-461

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ECCN 9E991 BOEING PROPRIETARY - See title page for details



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- 1) Replace the gaskets as a pair.

NOTE: The replacement of the full retainer assembly with the two gaskets is also permitted.

- (e) If you find damage on gasket [7] and gasket [28], you can install a temporary gasket around the lamp [6]:

NOTE: Only do this procedure if new gaskets and a new retainer [2] assembly are not available to do the replacement.

- 1) Use the seal, G02186, as a gasket to wind it fully around the edge of the new lamp [6].

- a) Be careful not stretch the seal, G02186.

NOTE: Keep an approximately equal quantity of gasket material around the two sides of the lamp.

- 2) Fold the gasket edges around the sides of the lamp [6] to fit in the retainer [2] assembly.

- a) Be careful not to have too much of the gasket on the front of the lamp [6].



**CAUTION** ALIGN THE RETAINER AND LAMP CORRECTLY. IF YOU ALIGN THEM INCORRECTLY, YOU WILL BREAK THE LAMP WHEN YOU TIGHTEN THE SCREWS ON THE RETAINER.

- (f) Align the retainer [2] and lamp [6] against the taxi light housing assembly [9].

- (g) Install the screws [1].

SUBTASK 33-45-01-860-009

- (4) 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	14	C00123	EXT LIGHTING NOSE GEAR TAXI

SUBTASK 33-45-01-860-022

- (5) Remove the NLG towing lever pin, SPL-1499, from the nose wheel steering mechanism (TASK 32-00-01-080-801).

SUBTASK 33-45-01-710-002

- (6) Do a test of the taxi light as follows:

- (a) Set the switch for the taxi light, on the P5 overhead panel, to the ON mode.

- 1) Make sure that the light comes on.

- (b) Set the switch to the OFF mode.

- 1) Make sure that the light goes off.

———— END OF TASK ————

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-461

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**TASK 33-45-01-350-801**

**7. Nose Landing Gear Taxi Light Lens - Temporary Repair**

**A. General**

- (1) This is the temporary repair for nose landing gear taxi light lens.
- (2) This temporary repair must follow the limits of the MMEL Nose Gear Taxi Light (MMEL section 33-09).

**B. References**

Reference	Title
32-00-01-080-801	Landing Gear Downlock Pins Removal (P/B 201)
32-00-01-480-801	Landing Gear Downlock Pins Installation (P/B 201)
WDM 33-45-11	Wiring Diagram Manual

**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-1499	Pin - Lock, NLG Towing Lever
	Part #: A09003-2 Supplier: 81205
	Opt Part #: A09003-1 Supplier: 81205

**D. Consumable Materials**

Reference	Description	Specification
G50228	Tape - 3M 436 Vibration Damping Tape (Formerly 3M Y436)	

**E. Location Zones**

Zone	Area
713	Nose Landing Gear

**F. Nose Landing Gear Taxi Light Lens Temporary Repair**

SUBTASK 33-45-01-860-018



MAKE SURE THAT THE DOWNLOCK PINS ARE INSTALLED IN ALL OF THE LANDING GEAR. WITHOUT THE DOWNLOCK PINS, THE LANDING GEAR CAN RETRACT AND CAUSE INJURIES TO PERSONS AND DAMAGE TO EQUIPMENT.

- (1) If the downlock pins are not installed in the nose and main landing gear, do this task: Landing Gear Downlock Pins Installation, TASK 32-00-01-480-801.

SUBTASK 33-45-01-860-019

- (2) Install the NLG towing lever pin, SPL-1499, in the nose wheel steering mechanism (TASK 32-00-01-480-801).

NOTE: Nose landing gear will move when the rudder pedals are moved. To prevent NLG movement, install a lockout pin in the nose wheel steering mechanism.

SUBTASK 33-45-01-350-001

- (3) Apply two layers of 3M 436 Tape, G50228, over the cracked light lens.

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-461

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SUBTASK 33-45-01-860-010

- (4) Open these circuit breakers and install safety tags:  
(WDM 33-45-11)

**CAPT Electrical System Panel, P18-3**

Row   Col   Number   Name

<b>LOM 404, 411, 412, 415, 416, 422-434, 437-447, 450-457, 461</b>
D      12      C01518      EXTERIOR LIGHTING GENERAL LIGHT CONT
<b>LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461</b>
D      14      C00123      EXT LIGHTING NOSE GEAR TAXI

SUBTASK 33-45-01-840-001

- (5) Replace the nose gear taxi light at the next destination where manpower and facilities are available.

SUBTASK 33-45-01-860-023

- (6) Remove the NLG towing lever pin, SPL-1499, from the nose wheel steering mechanism  
(TASK 32-00-01-080-801).

———— END OF TASK ————

— EFFECTIVITY —  
**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-461**

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**RUNWAY TURNOFF LIGHTS - MAINTENANCE PRACTICES**

**1. General**

- A. This procedure has these tasks:
- (1) Runway Turnoff Lights Deactivation.
  - (2) Runway Turnoff Lights Activation.

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461**

- (3) Runway Turnoff Light - Lamp Replacement.

**LOM 462-999**

- (4) Runway Turnoff Light - Light Assembly Replacement.

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461**

- (5) Runway Turnoff Light - Light Beam Adjustment.

**LOM ALL**

**TASK 33-45-02-040-801**

**2. Runway Turnoff Lights - Deactivation**

(Figure 201 or Figure 202)

**A. General**

- (1) This procedure removes electrical power to the runway turnoff lights.

**B. Location Zones**

<b>Zone</b>	<b>Area</b>
211	Flight Compartment - Left
212	Flight Compartment - Right
511	Left Wing - Leading Edge To Front Spar
611	Right Wing - Leading Edge to Front Spar

**C. Runway Turnoff Lights - Deactivation**

SUBTASK 33-45-02-860-017

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

**CAPT Electrical System Panel, P18-3**

**Row**   **Col**   **Number**   **Name**

**LOM 462-999**

B	14	C01968	EXTERIOR LIGHTING LTRTL - RIGHT
B	15	C01969	EXTERIOR LIGHTING LTRTL - LEFT
<b>LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461</b>			
C	12	C00245	EXT LIGHTING RUNWAY TURNOFF RIGHT
C	13	C00244	EXTERIOR LIGHTING RUNWAY TURNOFF LEFT

**LOM ALL**

**D. Runway Turnoff Lights - Tryout**

**NOTE:** This tryout is to make sure the Runway Turnoff Lights are in a zero energy state.

SUBTASK 33-45-02-700-001

- (1) At the overhead panel, P5, set the runway turnoff light switches to the ON mode.

EFFECTIVITY  
**LOM ALL**

**33-45-02**



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- (a) Make sure none of the runway turnoff lights come on.

———— END OF TASK ——

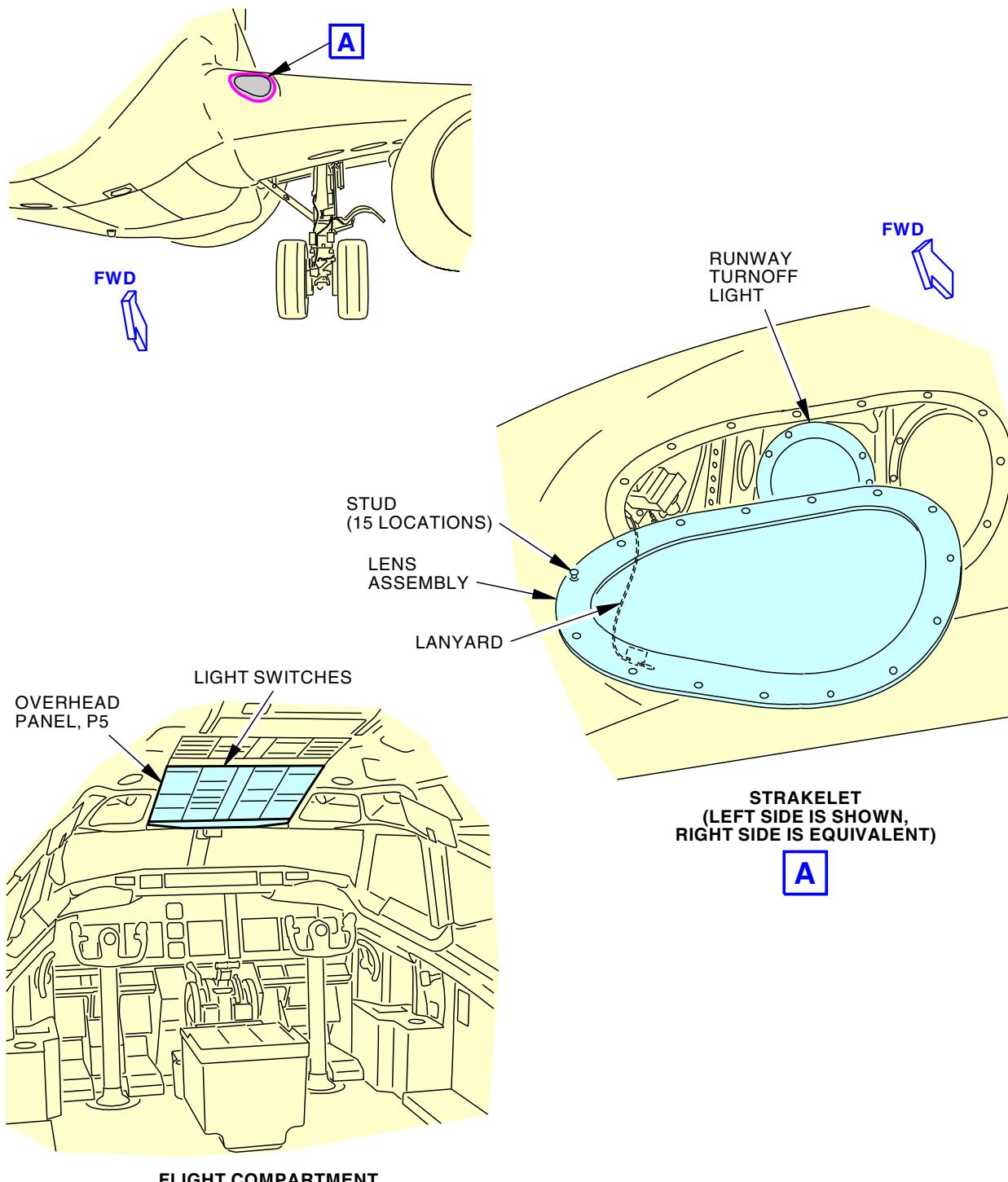
— EFFECTIVITY —  
**LOM ALL**

**33-45-02**

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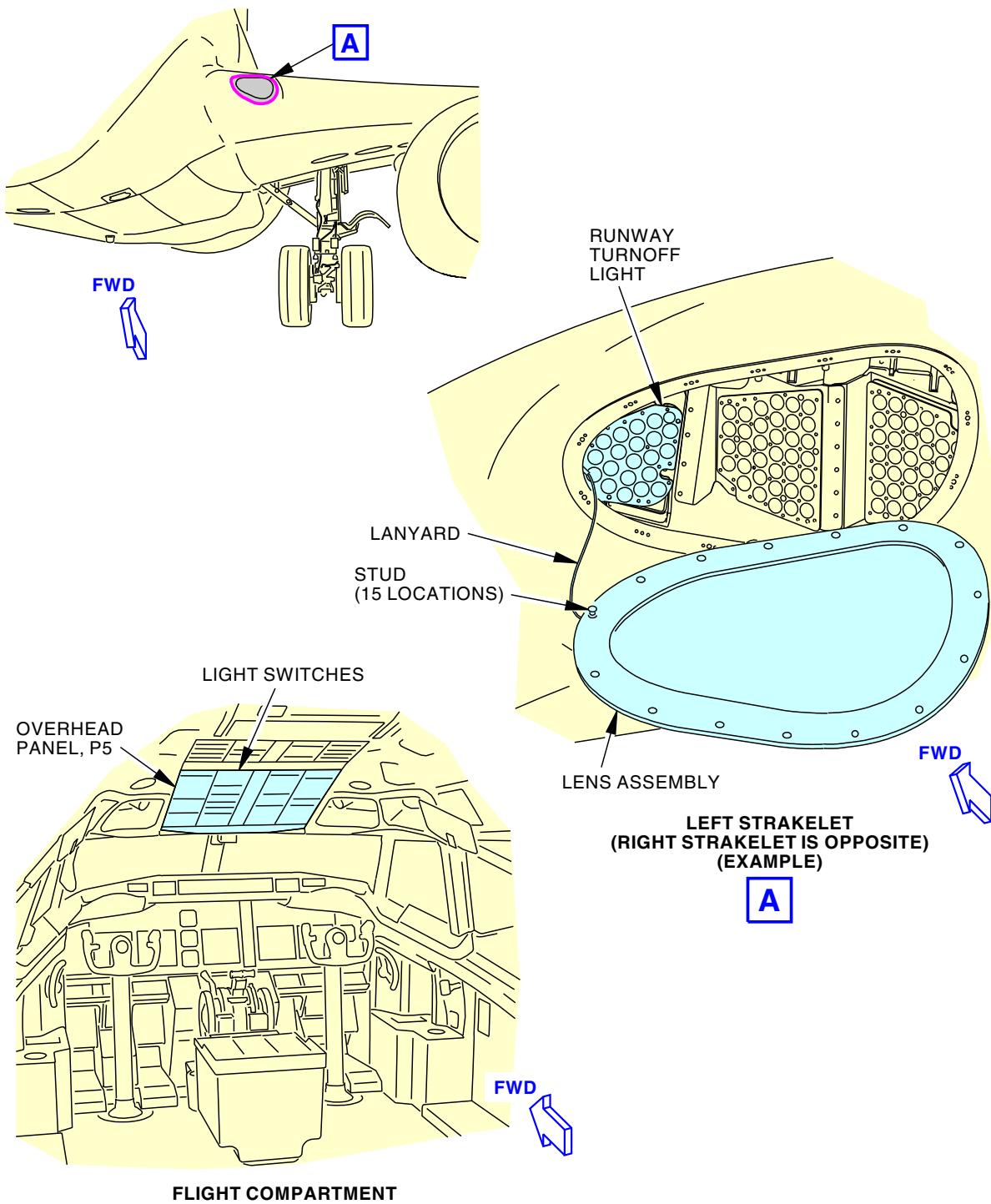
**Runway Turnoff Lights**  
**Figure 201/33-45-02-990-803**

EFFECTIVITY  
 LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
 422-434, 437-447, 450-461

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**Runway Turnoff Lights**  
**Figure 202/33-45-02-990-804**

EFFECTIVITY  
**LOM 462-999**

**33-45-02**



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**TASK 33-45-02-440-801**

**3. Runway Turnoff Lights - Activation**

(Figure 201 or Figure 202)

**A. General**

- (1) This procedure adds electrical power to the runway turnoff lights.

**B. Location Zones**

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right
511	Left Wing - Leading Edge To Front Spar
611	Right Wing - Leading Edge to Front Spar

**C. Runway Turnoff Lights - Activation**

SUBTASK 33-45-02-860-018

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

**CAPT Electrical System Panel, P18-3**

Row   Col   Number   Name

**LOM 462-999**

B      14      C01968      EXTERIOR LIGHTING LTRTL - RIGHT  
B      15      C01969      EXTERIOR LIGHTING LTRTL - LEFT

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461**

C      12      C00245      EXT LIGHTING RUNWAY TURNOFF RIGHT  
C      13      C00244      EXTERIOR LIGHTING RUNWAY TURNOFF LEFT

————— END OF TASK ————

**TASK 33-45-02-960-801**

**4. Runway Turnoff Light - Lamp Replacement**

(Figure 203)

**A. References**

Reference	Title
20-10-47-390-801	Seal the Unprotected Terminals (P/B 201)
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
27-51-00-040-801	Trailing Edge Flap System Deactivation (P/B 201)
27-51-00-440-801	Trailing Edge Flap System Reactivation (P/B 201)
27-81-00-040-801	Leading Edge Flaps and Slats Deactivation (P/B 201)
27-81-00-440-801	Leading Edge Flaps and Slats - Activation (P/B 201)
WDM 33-45-11	Wiring Diagram Manual

**B. Consumable Materials**

Reference	Description	Specification
G02186	Seal - Closed Cell Silicone Foam Rubber, Hydraulic Fluid Resistant	BMS1-68 Form III
G50066	Tape - Thick Ribbed Tape with Adhesive (Skyflex GSC-21-95241-011)	

EFFECTIVITY  
LOM ALL

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LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461 (Continued)

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
8	Lamp	33-45-02-01-040	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461

D. Location Zones

Zone	Area
511	Left Wing - Leading Edge To Front Spar
611	Right Wing - Leading Edge to Front Spar

E. Runway Turnoff Light Lamp Replacement

SUBTASK 33-45-02-860-014



**WARNING**

DO THE DEACTIVATION PROCEDURE FOR THE LEADING EDGE FLAPS AND SLATS. THE FLAPS AND SLATS MOVE QUICKLY. INJURIES TO PERSONNEL, AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Do one of these steps to deactivate the leading edge flaps and slats in the retracted (UP) position:
  - (a) If activation is not necessary to the trailing edge flaps, do this task: Trailing Edge Flap System Deactivation, TASK 27-51-00-040-801.  
NOTE: This task deactivates both the leading edge flaps/slats and the trailing edge flaps.
  - (b) If activation is necessary to the trailing edge flaps, do this task: Leading Edge Flaps and Slats Deactivation, TASK 27-81-00-040-801.  
NOTE: This task only deactivates the leading edge flaps and slats. The trailing edge flaps can still operate.

SUBTASK 33-45-02-860-003

- (2) Open the applicable circuit breaker and install the safety tag:  
(WDM 33-45-11)

**CAPT Electrical System Panel, P18-3**

Row	Col	Number	Name
C	12	C00245	EXT LIGHTING RUNWAY TURNOFF RIGHT
C	13	C00244	EXTERIOR LIGHTING RUNWAY TURNOFF LEFT

SUBTASK 33-45-02-010-001

- (3) Loosen the studs [1] and remove the lens assembly [3].  
NOTE: The lanyard stays connected.  
NOTE: Keep the lens assembly and lanyard away from the wing leading edge.

SUBTASK 33-45-02-960-001

- (4) Do these steps to replace the lamp:
  - (a) Remove the screws [10] and retainer assembly [9].  
NOTE: Do not turn the adjustment screws.
  - (b) Pull the lamp [8] from the housing.

EFFECTIVITY  
LOM ALL

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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461 (Continued)**

- (c) Disconnect the electrical wires [6] from the terminals [7] behind the lamp.
  - 1) Remove the compound from the terminals (Seal the Unprotected Terminals, TASK 20-10-47-390-801).
  - 2) Make sure that the electrical connections and lamp terminals are clean for good electrical contact.
- (d) Connect the electrical wires [6] to the new lamp.
- (e) Install a new gasket on the new lamp.

**NOTE:** For maximum protection of the lamp, select a gasket that is wide enough to cover the front edge of the lamp as well as the glass lugs behind the lamp. Elimination of glass-to-metal contact will improve lamp life. Leave an approximately equal amount of gasket material around both sides of the lamp.

- 1) Use seal, G02186, as a gasket, wind it completely around the edge of the lamp, without stretching the material.
- (f) Put the new lamp [8] in the housing.
  - 1) Install lamp with FOG designator located on bottom and/or such that bulb filament is oriented in the horizontal position.
- (g) Install the retainer assembly [9] and screws [10].



**IF THE SCREWS ARE TOO TIGHT, THE RETAINER WILL BEND.  
DAMAGE TO EQUIPMENT CAN OCCUR.**

**CAUTION**

- 1) Tighten the screws by hand.

SUBTASK 33-45-02-860-004

- (5) Remove the safety tag and close the applicable circuit breaker

**CAPT Electrical System Panel, P18-3**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	12	C00245	EXT LIGHTING RUNWAY TURNOFF RIGHT
C	13	C00244	EXTERIOR LIGHTING RUNWAY TURNOFF LEFT

SUBTASK 33-45-02-860-001

- (6) Make sure that the electrical power is supplied to the airplane, do this task: Supply Electrical Power, TASK 24-22-00-860-811.

SUBTASK 33-45-02-710-001

- (7) Do a test of the new lamp:

- (a) Set the switch for the runway turnoff light, on the P5 the overhead panel, to the ON mode.
  - 1) Make sure that the new lamp comes on.
  - 2) If it is necessary to adjust the light beam, do this task: Runway Turnoff Light - Light Beam Adjustment, TASK 33-45-02-820-801.
- (b) Set the switch for the runway turnoff light, on the P5 the overhead panel, to the OFF mode.
  - 1) Make sure that the light goes off.

EFFECTIVITY  
LOM ALL

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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461 (Continued)**

SUBTASK 33-45-02-410-001

(8) Do these steps to install the lens assembly:

- (a) If the tape around the perimeter of the lens opening is damaged, do these steps:
  - 1) Remove and discard the damaged tape.
  - 2) Apply Skyflex tape, G50066, around the perimeter of the lens opening.
    - a) If the tape is too long, fold it to fit the opening, but not more than four times.  
NOTE: Do not stretch the tape.
  - 3) Use a sharp tool to make a 0.25 in. (6.35 mm) cut in the tape at the 15 holes.  
NOTE: Make no other cuts to the tape.
- (b) Install the lens assembly [3] with the studs [1].
  - 1) Tighten the studs [1] to 20 in-lb (2 N·m) - 25 in-lb (3 N·m).

SUBTASK 33-45-02-860-013

(9) Do these steps to reactivate the leading edge flaps and slats:

- (a) If the trailing edge flaps system was deactivated, do this task: Trailing Edge Flap System Reactivation, TASK 27-51-00-440-801.
- (b) If the leading edge flaps and slats system was deactivated, do this task: Leading Edge Flaps and Slats - Activation, TASK 27-81-00-440-801.

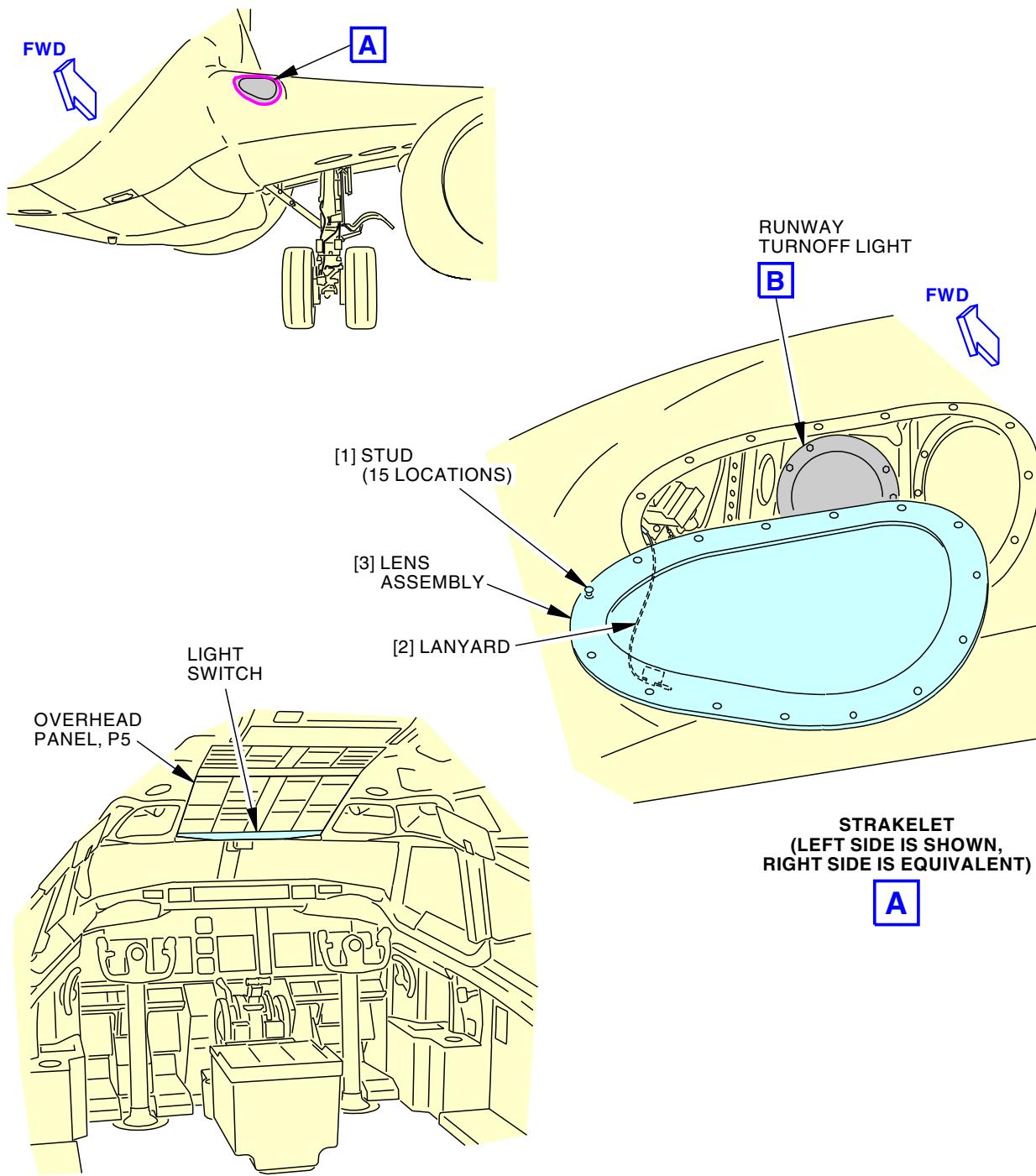
SUBTASK 33-45-02-860-006

(10) If it is not necessary, remove electrical power, do this task: Remove Electrical Power, TASK 24-22-00-860-812.

———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-45-02**



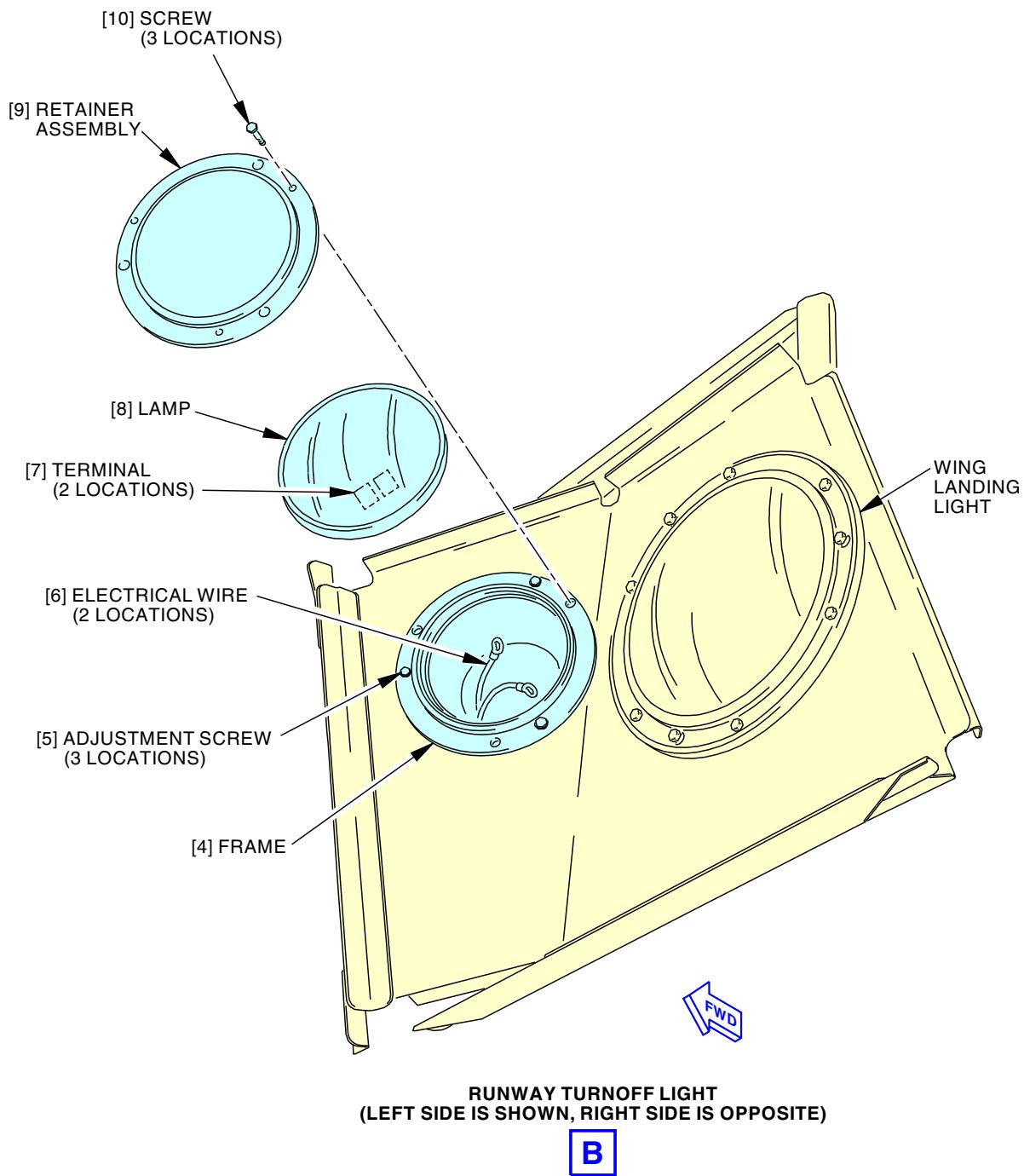
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**Runway Turnoff Light - Lamp Replacement**  
**Figure 203/33-45-02-990-801 (Sheet 1 of 2)**

EFFECTIVITY  
 LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
 422-434, 437-447, 450-461

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**Runway Turnoff Light - Lamp Replacement**  
**Figure 203/33-45-02-990-801 (Sheet 2 of 2)**

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-461

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LOM 462-999

**TASK 33-45-02-900-801**

**5. Runway Turnoff Light - Light Assembly Replacement**

(Figure 204)

**A. References**

Reference	Title
20-40-12-000-801	ESDS Handling for Printed Circuit Board Removal (P/B 201)
24-22-00-860-811	Supply Electrical Power (P/B 201)
27-51-00-040-801	Trailing Edge Flap System Deactivation (P/B 201)
27-51-00-440-801	Trailing Edge Flap System Reactivation (P/B 201)
27-81-00-040-801	Leading Edge Flaps and Slats Deactivation (P/B 201)
27-81-00-440-801	Leading Edge Flaps and Slats - 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
A50231	Sealant - Pressure And Environmental - Chromate Type	BMS5-95 Class B
G50066	Tape - Thick Ribbed Tape with Adhesive (Skyflex GSC-21-95241-011)	

**D. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Runway turnoff light	33-45-02-04-025	LOM 462-999
		33-45-02-04-030	LOM 462-999

**E. Location Zones**

Zone	Area
511	Left Wing - Leading Edge To Front Spar
611	Right Wing - Leading Edge to Front Spar



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LOM 462-999 (Continued)

**F. Prepare for the Replacement**

SUBTASK 33-45-02-860-019



DO THE DEACTIVATION PROCEDURE FOR THE LEADING EDGE FLAPS AND SLATS. THE FLAPS AND SLATS MOVE QUICKLY. INJURIES TO PERSONNEL, AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Do one of these steps to deactivate the leading edge flaps and slats in the retracted (UP) position:
  - (a) If activation is not necessary to the trailing edge flaps, do this task: Trailing Edge Flap System Deactivation, TASK 27-51-00-040-801.  
NOTE: This task deactivates both the leading edge flaps/slats and the trailing edge flaps.
  - (b) If activation is necessary to the trailing edge flaps, do this task: Leading Edge Flaps and Slats Deactivation, TASK 27-81-00-040-801.  
NOTE: This task only deactivates the leading edge flaps and slats. The trailing edge flaps can still operate.

SUBTASK 33-45-02-860-020

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

**CAPT Electrical System Panel, P18-3**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	14	C01968	EXTERIOR LIGHTING LTRTL - RIGHT
B	15	C01969	EXTERIOR LIGHTING LTRTL - LEFT
D	12	C01518	EXTERIOR LIGHTING GENERAL LIGHT CONT

SUBTASK 33-45-02-910-001

- (3) Before you touch the light assembly, do this task for devices that are sensitive to electrostatic discharge: ESDS Handling for Printed Circuit Board Removal, TASK 20-40-12-000-801.

**G. Runway Turnoff Light Assembly Replacement**

SUBTASK 33-45-02-020-001

- (1) Loosen the studs [4] and remove the lens assembly [3].  
NOTE: The lanyard stays connected.  
NOTE: Keep the lens assembly and lanyard away from the wing leading edge.

SUBTASK 33-45-02-960-002

- (2) Do these steps to replace the runway turnoff light [1]:
  - (a) Remove the nut [8], washer [9], and jumper [10].
  - (b) Remove the screws [7], washers [5], and packings [11] (if installed).
    - 1) If packings [11] have signs of damage or wear, discard them.
  - (c) Remove the runway turnoff light [1] from the bracket.
  - (d) Disconnect the electrical connector [6] from the runway turnoff light [1].
  - (e) Connect the electrical connector [6] to the new runway turnoff light [1].
  - (f) Install the new runway turnoff light [1] to the bracket.
  - (g) Install the screws [7], washers [5], and packings [11].

EFFECTIVITY  
LOM ALL

**33-45-02**



**737-600/700/800/900**  
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**LOM 462-999 (Continued)**

- 1) Install new packings [11], if necessary.

NOTE: As an optional procedure, it is permitted to install the runway turnoff light without packings.

- 2) Tighten the screws [7] to 30 in-lb (3.4 N·m) - 31 in-lb (3.5 N·m).

- (h) Apply sealant, A50231, to the contacts of the jumper [10], washer [9], and nut [8].

- (i) Install the jumper [10], washer [9], and nut [8].

- 1) Tighten the nut [8] to 28 in-lb (3.2 N·m) - 35 in-lb (4.0 N·m).

**SUBTASK 33-45-02-910-002**

- (3) Measure the electrical bonding resistance between the jumpers [10] and fuselage (SWPM 20-20-00).

- (a) Use an intrinsically safe approved bonding meter, COM-1550.

- (b) Make sure that the bonding resistance is less than 0.001 ohm (1.0 milliohm) or less.

**SUBTASK 33-45-02-860-021**

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

**CAPT Electrical System Panel, P18-3**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
------------	------------	---------------	-------------

B	14	C01968	EXTERIOR LIGHTING LTRTL - RIGHT
---	----	--------	---------------------------------

B	15	C01969	EXTERIOR LIGHTING LTRTL - LEFT
---	----	--------	--------------------------------

D	12	C01518	EXTERIOR LIGHTING GENERAL LIGHT CONT
---	----	--------	--------------------------------------

**SUBTASK 33-45-02-860-022**

- (5) Make sure that the electrical power is supplied to the airplane.

- (a) To supply electrical power, do this task: Supply Electrical Power, TASK 24-22-00-860-811.

**SUBTASK 33-45-02-710-002**

- (6) Do a test of the runway turnoff light [1].

- (a) On the P5 overhead panel, set the left RUNWAY TURNOFF switch to the ON position.

- 1) Make sure that the left runway turnoff light comes on.

- (b) On the P5 overhead panel, set the left RUNWAY TURNOFF switch to the OFF position.

- 1) Make sure that the left runway turnoff light goes off.

- (c) On the P5 overhead panel, set the right RUNWAY TURNOFF switch to the ON position.

- 1) Make sure that the right runway turnoff light comes on.

- (d) On the P5 overhead panel, set the right RUNWAY TURNOFF switch to the OFF position.

- 1) Make sure that the right runway turnoff light goes off.

**SUBTASK 33-45-02-420-001**

- (7) Do these steps to install the lens assembly:

- (a) If the tape around the perimeter of the lens opening is damaged, do these steps:

- 1) Remove and discard the damaged tape.

- 2) Apply Skyflex tape, G50066, around the perimeter of the lens opening.

- a) If the tape is too long, fold it to fit the opening, but not more than four times.

NOTE: Do not stretch the tape.

EFFECTIVITY  
LOM ALL

**33-45-02**



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

**LOM 462-999 (Continued)**

- 3) Use a sharp tool to make a 0.25 in. (6.35 mm) cut in the tape at the 15 holes.

NOTE: Make no other cuts to the tape.

- (b) Install the lens assembly [3] with the studs [4].

- 1) Tighten each stud [4] to 20 in-lb (2.3 N·m) - 25 in-lb (2.8 N·m).

**H. Put the Airplane Back to Its Usual Condition**

SUBTASK 33-45-02-860-023

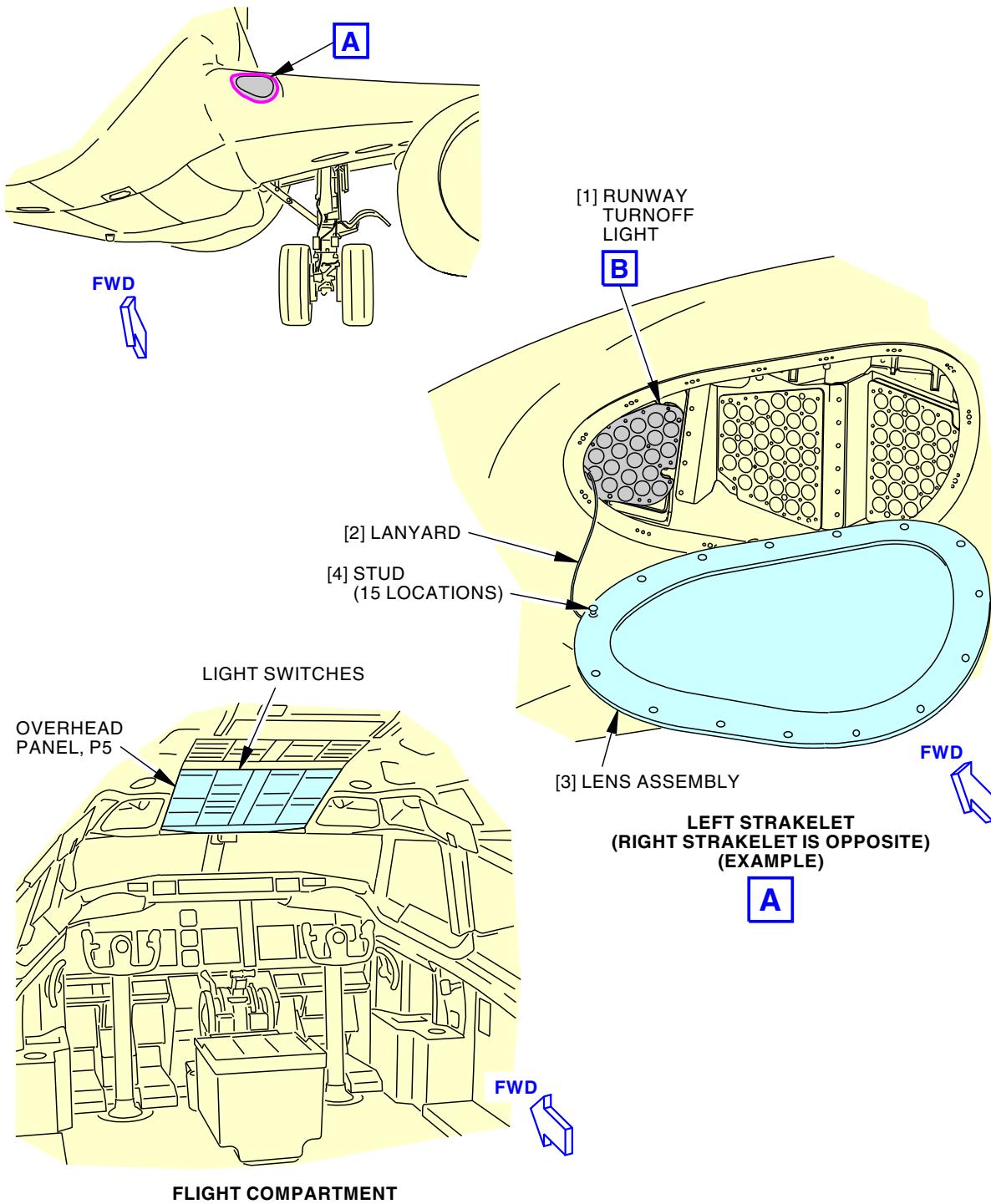
- (1) Do these steps to reactivate the leading edge flaps and slats:

- (a) If the trailing edge flaps system was deactivated, do this task: Trailing Edge Flap System Reactivation, TASK 27-51-00-440-801.
  - (b) If the leading edge flaps and slats system was deactivated, do this task: Leading Edge Flaps and Slats - Activation, TASK 27-81-00-440-801.

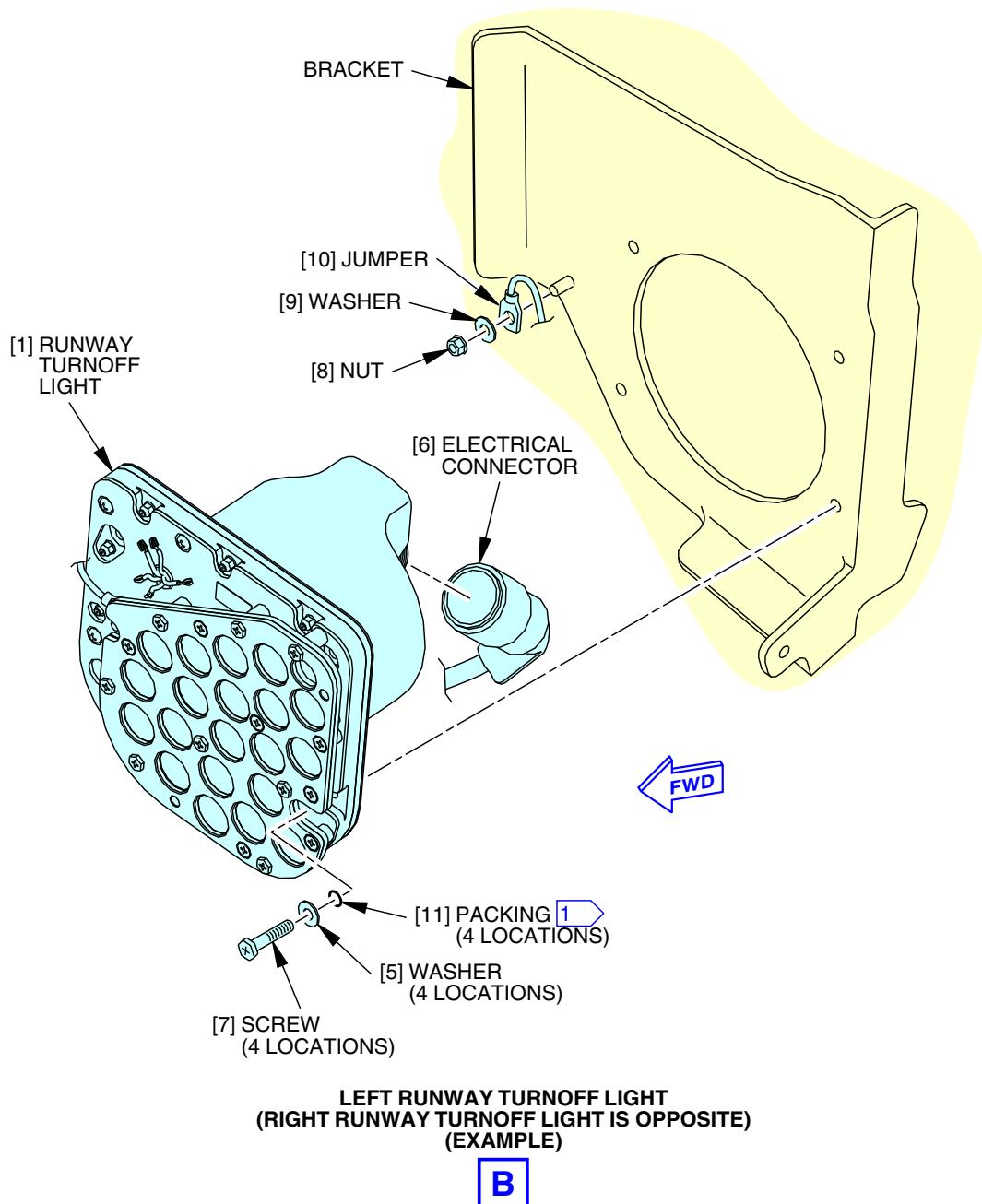
———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-45-02**



**BOEING**  
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**| 1** FOR AN OPTIONAL PROCEDURE PACKING INSTALLATION IS NOT NECESSARY.

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**Runway Turnoff Light - Light Assembly Replacement**  
**Figure 204/33-45-02-990-805 (Sheet 2 of 2)**

EFFECTIVITY  
**LOM 462-999**

**33-45-02**

D633A101-LOM

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, 450-461

**TASK 33-45-02-820-801**

**6. Runway Turnoff Light - Light Beam Adjustment**

(Figure 205)

**A. References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
27-51-00-040-801	Trailing Edge Flap System Deactivation (P/B 201)
27-51-00-440-801	Trailing Edge Flap System Reactivation (P/B 201)
27-81-00-040-801	Leading Edge Flaps and Slats Deactivation (P/B 201)
27-81-00-440-801	Leading Edge Flaps and Slats - Activation (P/B 201)

**B. Location Zones**

Zone	Area
511	Left Wing - Leading Edge To Front Spar
611	Right Wing - Leading Edge to Front Spar

**C. Procedure**

SUBTASK 33-45-02-940-001

- (1) Make sure the airplane and test area are approximately level.

SUBTASK 33-45-02-940-002

- (2) Set up a marker at the TARGET point shown in Figure 205.

NOTE: A marker can be any item large enough to be seen from a distance.

SUBTASK 33-45-02-860-015



**WARNING**

DO THE DEACTIVATION PROCEDURE FOR THE LEADING EDGE FLAPS AND SLATS. THE FLAPS AND SLATS MOVE QUICKLY. INJURIES TO PERSONNEL, AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (3) Do one of these steps to deactivate the leading edge flaps and slats in the retracted (UP) position:

- (a) If activation is not necessary to the trailing edge flaps, do this task: Trailing Edge Flap System Deactivation, TASK 27-51-00-040-801.

NOTE: This task deactivates both the leading edge flaps/slats and the trailing edge flaps.

- (b) If activation is necessary to the trailing edge flaps, do this task: Leading Edge Flaps and Slats Deactivation, TASK 27-81-00-040-801.

NOTE: This task only deactivates the leading edge flaps and slats. The trailing edge flaps can still operate.

SUBTASK 33-45-02-860-007

- (4) Make sure the airplane is supplied with electrical power. To supply it, do this task: Supply Electrical Power, TASK 24-22-00-860-811.

SUBTASK 33-45-02-010-002

- (5) Loosen the studs [1] and remove the lens assembly [3].

NOTE: The lanyard [2] stays connected.

EFFECTIVITY  
LOM ALL

**33-45-02**



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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-461 (Continued)**

SUBTASK 33-45-02-860-009



**CAUTION**

TO PREVENT DECREASED LAMP LIFE, DO NOT OPERATE THE LIGHT  
WHEN IT IS NOT NECESSARY.

- (6) At the overhead panel, P5, set the applicable switch for the runway turnoff light to the on mode.

SUBTASK 33-45-02-820-001

- (7) Do these steps to adjust the light beam:

- (a) Turn the adjustment screws [5] on the retainer until the light beam is on the target.

NOTE: Each adjustment screw must be installed tightly against the frame.

SUBTASK 33-45-02-860-010

- (8) At the P5 panel, set the switch for the runway turnoff light to the off mode.

SUBTASK 33-45-02-410-002

- (9) Do these steps to install the lens assembly:

- (a) If the tape around the perimeter of the lens opening is damaged, do these steps:

1) Remove and discard the damaged tape.

2) Apply Skyflex tape, GUA1017-1 around the perimeter of the lens opening.

a) If the tape is too long, fold it to fit the opening, but not more than four times.

NOTE: Do not stretch the tape.

3) Use a sharp tool to make a .25 inch (6.35 mm) cut in the tape at the 15 holes.

NOTE: Make no other cuts to the tape.

- (b) Install the lens assembly [3] with the studs [1].

1) Tighten each stud from 20 to 25 inch-pounds (2.3-2.8 N·m).

SUBTASK 33-45-02-860-012

- (10) Do these steps to reactivate the leading edge flaps and slats:

- (a) If the trailing edge flaps system was deactivated, do this task: Trailing Edge Flap System Reactivation, TASK 27-51-00-440-801.

- (b) If the leading edge flaps and slats system was deactivated, do this task: Leading Edge Flaps and Slats - Activation, TASK 27-81-00-440-801.

SUBTASK 33-45-02-860-012

- (11) If it is not necessary, remove electrical power. To remove it, do this task: Remove Electrical Power, TASK 24-22-00-860-812.

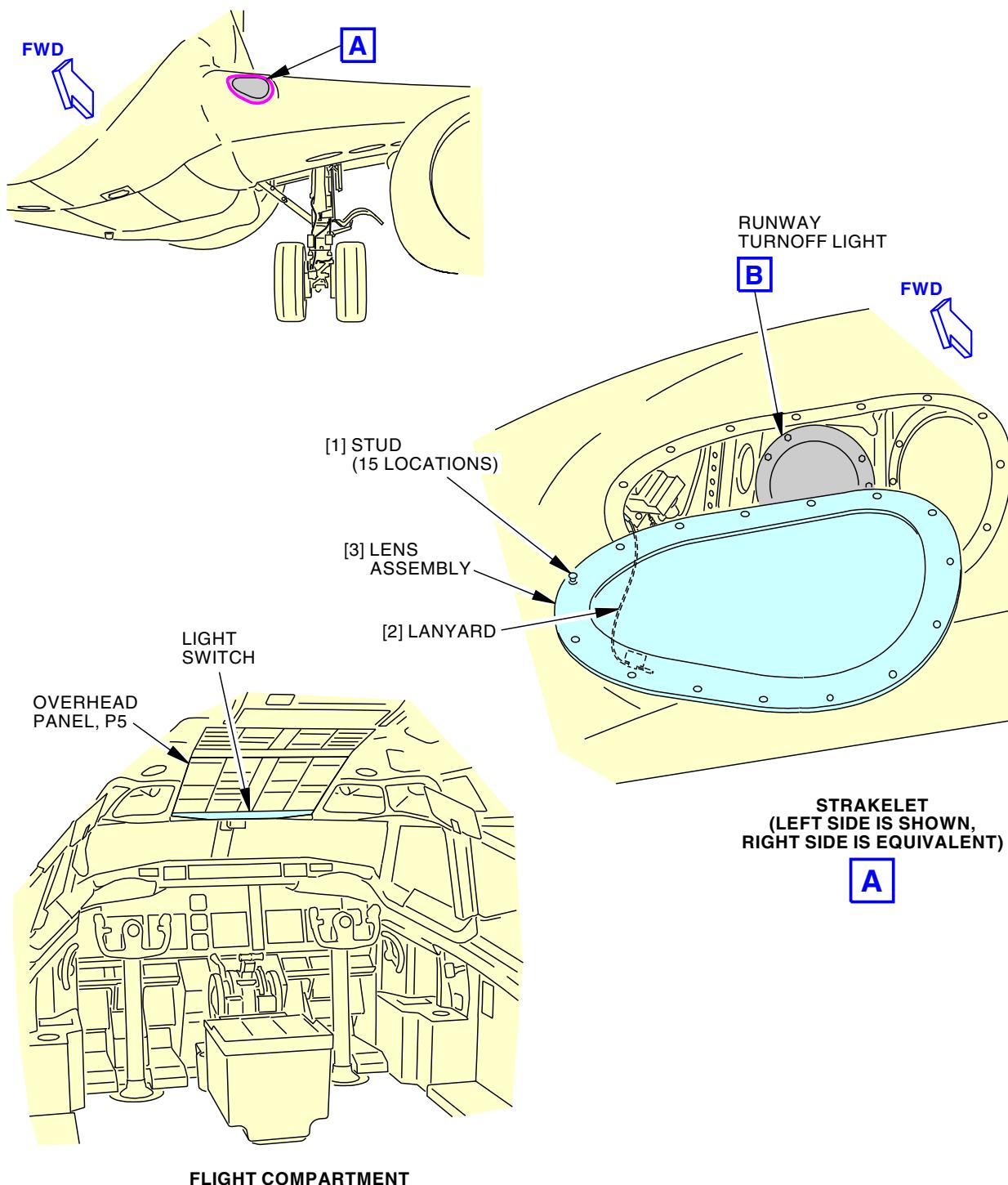
SUBTASK 33-45-02-940-003

- (12) Remove the marker.

———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-45-02**



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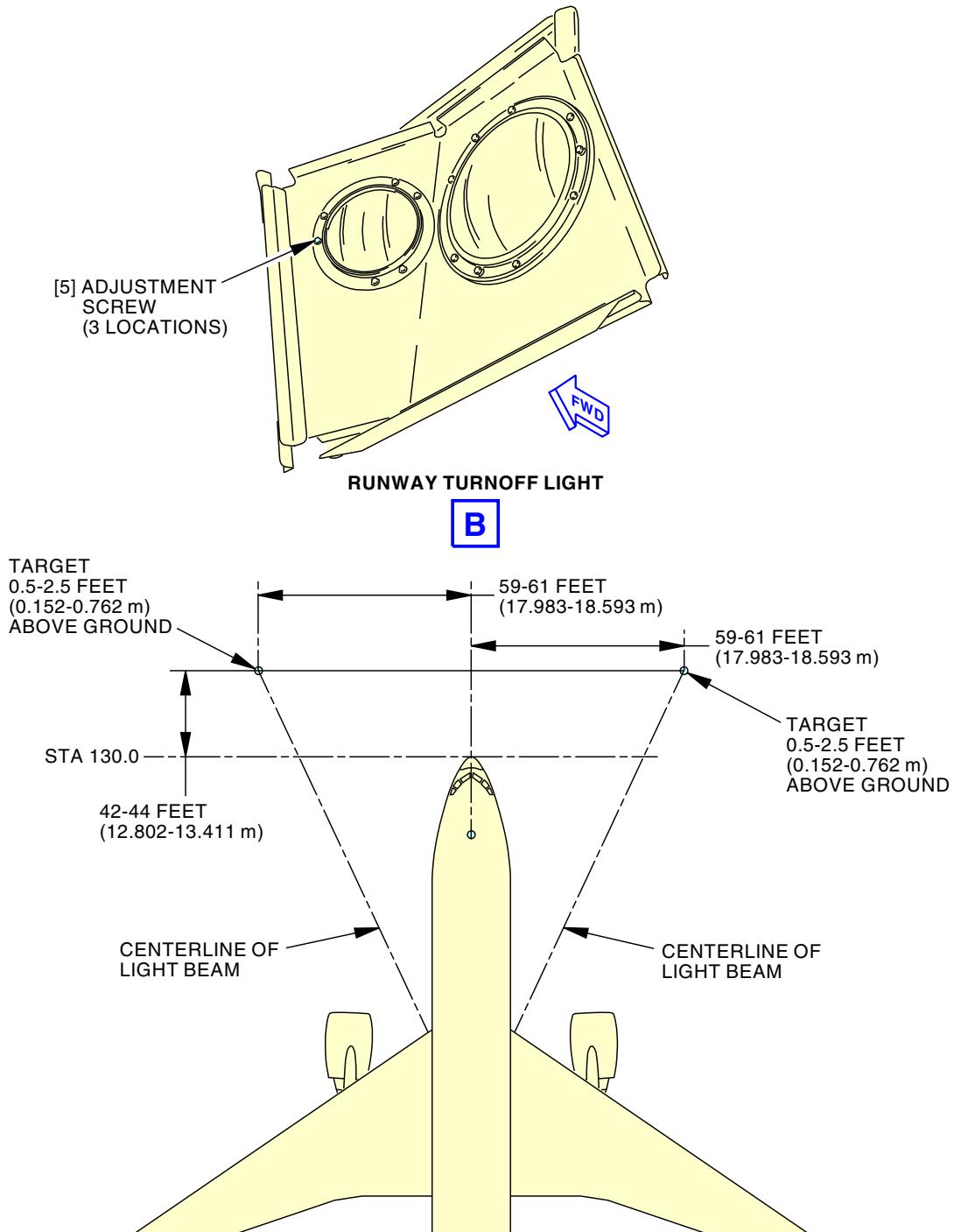
**Runway Turnoff Light - Light Beam Adjustment  
Figure 205/33-45-02-990-802 (Sheet 1 of 2)**

EFFECTIVITY  
 LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
 422-434, 437-447, 450-461

**33-45-02**

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**Runway Turnoff Light - Light Beam Adjustment**  
**Figure 205/33-45-02-990-802 (Sheet 2 of 2)**

EFFECTIVITY  
 LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
 422-434, 437-447, 450-461

**33-45-02**

D633A101-LOM



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AIRCRAFT MAINTENANCE MANUAL

TAXI LIGHT RELAY - MAINTENANCE PRACTICES

**1. General**

- A. This procedure has these tasks:
- (1) An operational test of the taxi light relay
  - (2) A replacement of the taxi light relay.

**TASK 33-45-03-710-801**

**2. Taxi Light Relay - Operational Test**

(Figure 201)

**A. General**

- (1) This test makes sure the relay operates the taxi lights correctly.

**B. References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)

**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-1690	Actuators/Deactuators Set - Proximity Sensor
	Part #: 8-758-01 Supplier: 08748
	Part #: A27092-146 Supplier: 81205

**D. Location Zones**

Zone	Area
115	Nose Landing Gear Wheel Well - Left
116	Nose Landing Gear Wheel Well - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

**E. Procedure**

**SUBTASK 33-45-03-860-001**

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

**SUBTASK 33-45-03-710-001**

- (2) Do a test of the taxi light relay:

- (a) At the overhead panel, P5, set the switch for the taxi light to the on mode.

- (b) Make sure the taxi light comes on.

- (c) Attach deactuators to the face of these proximity sensors on the nose landing gear:

NOTE: The deactuators are part of the proximity sensors actuators/deactuators proximity sensor test set, SPL-1690.

- 1) S845 #1 NOSE GEAR DOWN

- 2) S846 #1 NOSE GEAR LOCKED

- (d) Make sure the taxi light goes off.

EFFECTIVITY  
LOM 404, 411, 412, 415, 416, 422-434, 437-447,  
450-457, 464-999; AIRPLANES WITH THE TAXI  
LIGHT RELAY

**33-45-03**

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- (e) Remove the deactuators.
- (f) Make sure the taxi light comes on.
- (g) At the P5 panel, set the switch to the off mode.
- (h) Make sure the taxi light goes off.

SUBTASK 33-45-03-860-002

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

———— END OF TASK ————

— EFFECTIVITY —  
LOM 404, 411, 412, 415, 416, 422-434, 437-447,  
450-457, 464-999; AIRPLANES WITH THE TAXI  
LIGHT RELAY

**33-45-03**

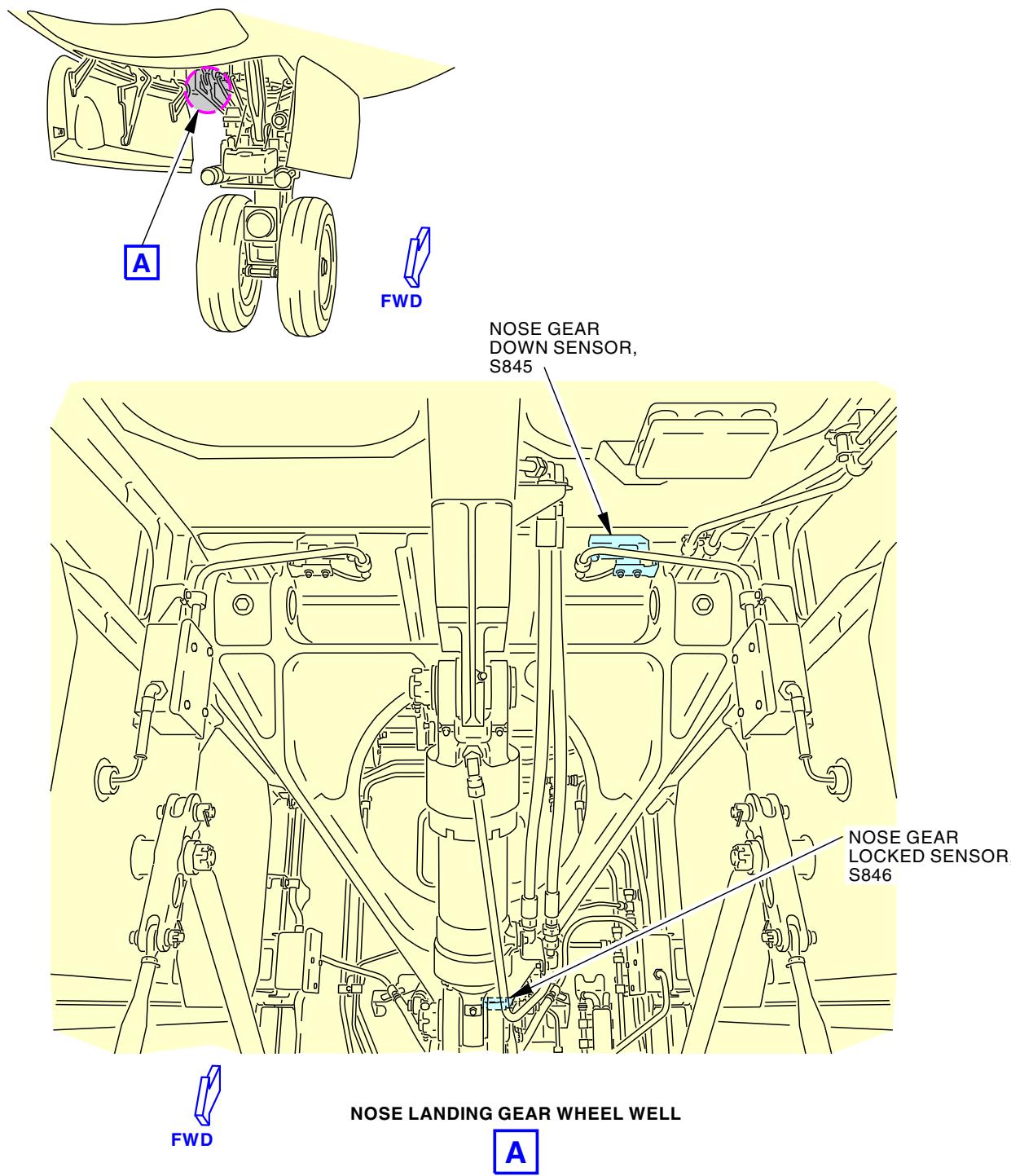
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**Taxi Light Relay - Operational Test**  
Figure 201/33-45-03-990-801

EFFECTIVITY  
LOM 404, 411, 412, 415, 416, 422-434, 437-447,  
450-457, 464-999; AIRPLANES WITH THE TAXI  
LIGHT RELAY

**33-45-03**

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**TASK 33-45-03-960-801**

**3. Taxi Light Relay - Replacement**

(Figure 202)

**A. References**

Reference	Title
53-14-01-020-801	Nose Wheel Well Access Panels - Removal (P/B 401)
53-14-01-420-801	Nose Wheel Well Access Panels - Installation (P/B 401)

**B. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
3	Relay	33-45-01-03-015	LOM 411, 412, 415, 423, 424, 426-432, 437-439, 441, 445, 450-452, 457, 465
		33-45-01-03-020	LOM 404, 416, 422, 425, 433, 434, 440, 442-444, 446, 447, 453-456, 464, 466-999

**C. Location Zones**

Zone	Area
115	Nose Landing Gear Wheel Well - Left
116	Nose Landing Gear Wheel Well - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

**D. Access Panels**

Number	Name/Location
114BW	Forward Nose Wheel Well Panel

**E. Taxi Light Relay Replacement**

SUBTASK 33-45-03-860-003

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

**CAPT Electrical System Panel, P18-3**

Row	Col	Number	Name
D	12	C01518	EXTERIOR LIGHTING GENERAL LIGHT CONT
LOM 404, 411, 412, 415, 416, 422-434, 437-447, 450-457			

D 14 C00123 EXT LIGHTING NOSE GEAR TAXI

**LOM 404, 411, 412, 415, 416, 422-434, 437-447, 450-457, 464-999; AIRPLANES WITH THE TAXI LIGHT RELAY**

SUBTASK 33-45-03-010-001

- (2) Open this access panel:

(TASK 53-14-01-020-801)

**Number      Name/Location**

114BW      Forward Nose Wheel Well Panel

SUBTASK 33-45-03-960-001

- (3) Do these steps to replace the relay [3]:

EFFECTIVITY  
**LOM 404, 411, 412, 415, 416, 422-434, 437-447, 450-457, 464-999; AIRPLANES WITH THE TAXI LIGHT RELAY**



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- (a) Loosen the fasteners [1] and remove the cover [2] from the J4 junction box.
- (b) Remove the screws [4] on the relay [3].
- (c) Replace the relay [3].
- (d) Install the screws [4] on the relay [3].
- (e) Put the cover [2] on the J4 junction box and tighten the fasteners [1].

SUBTASK 33-45-03-410-001

- (4) Close this access panel:

(TASK 53-14-01-420-801)

**Number      Name/Location**

114BW      Forward Nose Wheel Well Panel

SUBTASK 33-45-03-860-004

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

**CAPT Electrical System Panel, P18-3**

**Row    Col    Number    Name**

D        12      C01518      EXTERIOR LIGHTING GENERAL LIGHT CONT

**LOM 404, 411, 412, 415, 416, 422-434, 437-447, 450-457**

D        14      C00123      EXT LIGHTING NOSE GEAR TAXI

**LOM 404, 411, 412, 415, 416, 422-434, 437-447, 450-457, 464-999; AIRPLANES WITH THE TAXI  
LIGHT RELAY**

SUBTASK 33-45-03-710-002

- (6) Do this task: Taxi Light Relay - Operational Test, TASK 33-45-03-710-801.

———— END OF TASK ————

— EFFECTIVITY —  
**LOM 404, 411, 412, 415, 416, 422-434, 437-447,  
450-457, 464-999; AIRPLANES WITH THE TAXI  
LIGHT RELAY**

**33-45-03**

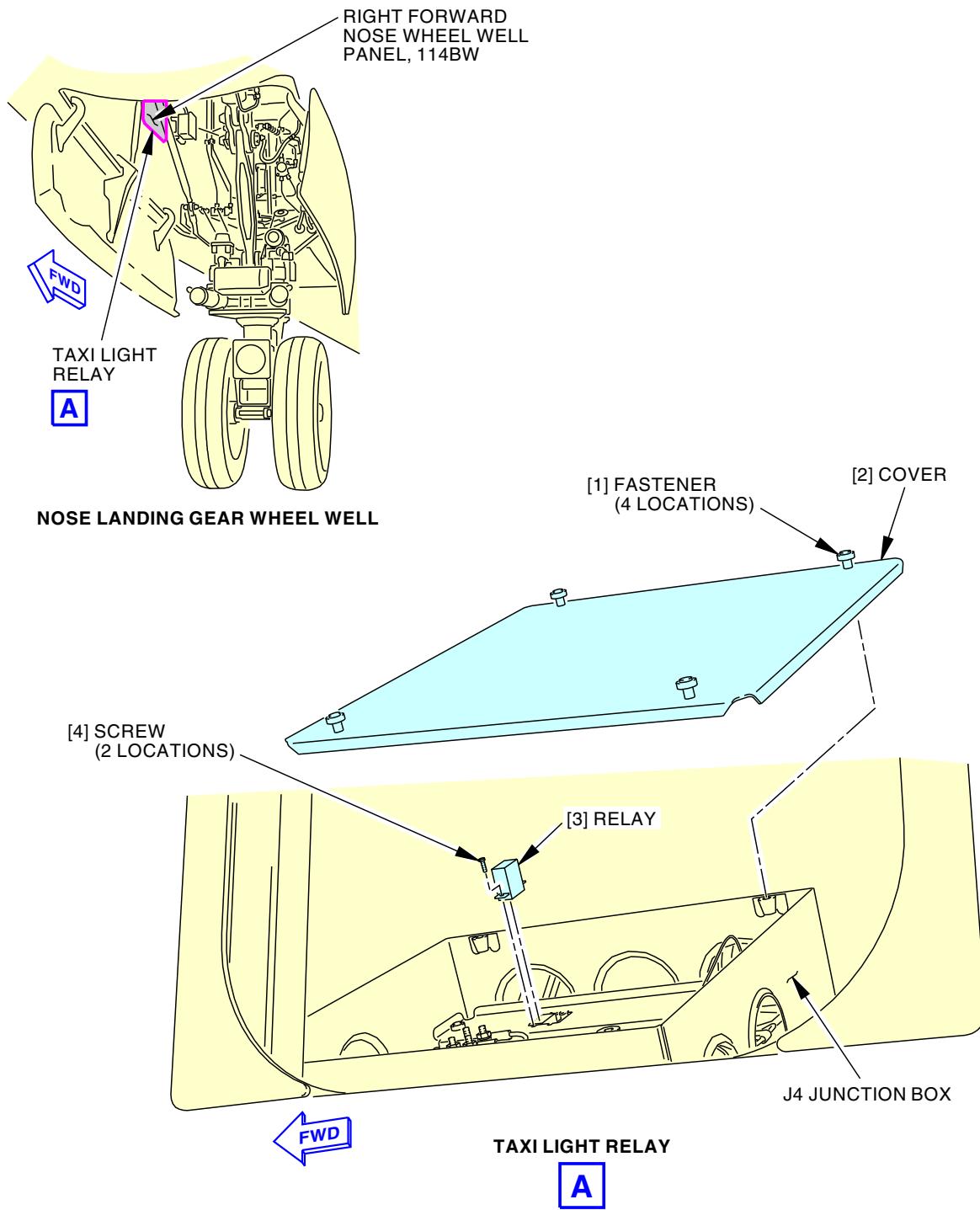
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**Taxi Light Relay - Replacement**  
Figure 202/33-45-03-990-802

EFFECTIVITY  
LOM 404, 411, 412, 415, 416, 422-434, 437-447,  
450-457, 464-999; AIRPLANES WITH THE TAXI  
LIGHT RELAY

**33-45-03**

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TAXI LIGHT TRANSFORMER - MAINTENANCE PRACTICES

**1. General**

- A. This procedure has this task:
- (1) Taxi Light Transformer - Replacement

**TASK 33-45-04-960-801**

**2. Taxi Light Transformer - Replacement**

(Figure 201)

**A. References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)

**B. Location Zones**

Zone	Area
115	Nose Landing Gear Wheel Well - Left
116	Nose Landing Gear Wheel Well - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

**C. Access Panels**

Number	Name/Location
114BW	Forward Nose Wheel Well Panel

**D. Procedure**

SUBTASK 33-45-04-860-001

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

**CAPT Electrical System Panel, P18-3**

Row	Col	Number	Name
D	14	C00123	EXT LIGHTING NOSE GEAR TAXI

SUBTASK 33-45-04-010-001

- (2) Open this access panel:

**Number      Name/Location**

114BW	Forward Nose Wheel Well Panel
-------	-------------------------------

SUBTASK 33-45-04-960-001

- (3) Do these steps to replace the transformer:

- (a) Loosen the fasteners [1] and remove the cover [2] from the J4 junction box.
- (b) Remove the nuts [3] and washers [4] to disconnect the electrical wires from the top of the transformer.
  - 1) Remove all dirt and corrosion from the ends of the electrical wires.
- (c) Remove the screws [5] from the base of the transformer.
- (d) Replace the transformer [6].
- (e) Install the screws [5] on the base of the transformer.
- (f) Connect the electrical wires to the new transformer and install the washers [4] and nut [3].

EFFECTIVITY  
LOM 416, 446, 447, 455, 456; AIRPLANES WITH THE  
TAXI LIGHT TRANSFORMER

**33-45-04**

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- (g) Put the cover [2] on the J4 junction box and tighten the fasteners [1].

SUBTASK 33-45-04-410-001

- (4) Close this access panel:

**Number      Name/Location**

114BW      Forward Nose Wheel Well Panel

SUBTASK 33-45-04-860-002

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

**CAPT Electrical System Panel, P18-3**

**Row    Col    Number    Name**

D      14      C00123      EXT LIGHTING NOSE GEAR TAXI

SUBTASK 33-45-04-860-003

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

SUBTASK 33-45-04-710-001

- (7) Do a test of the new transformer:

- (a) At the overhead panel, P5, set the switch for the taxi light to the on mode.

- 1) Make sure the taxi light comes on.

- (b) Set the switch to the off mode.

- 1) Make sure the taxi light goes off.

SUBTASK 33-45-04-860-004

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

———— END OF TASK ————

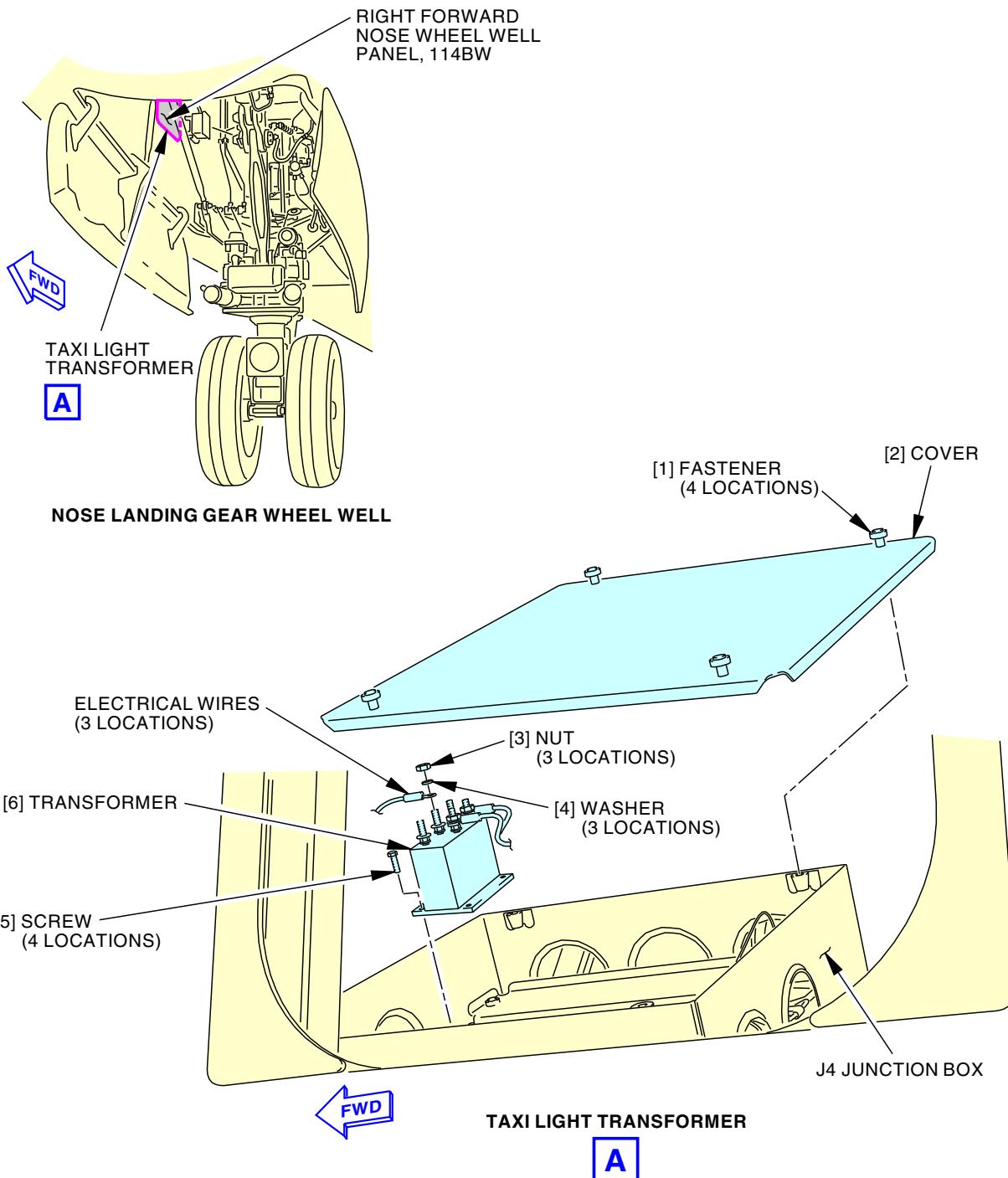
EFFECTIVITY  
LOM 416, 446, 447, 455, 456; AIRPLANES WITH THE  
TAXI LIGHT TRANSFORMER

**33-45-04**

D633A101-LOM

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**Taxi Light Transformer - Replacement  
Figure 201/33-45-04-990-801**

EFFECTIVITY  
LOM 416, 446, 447, 455, 456; AIRPLANES WITH THE  
TAXI LIGHT TRANSFORMER

**33-45-04**

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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**AIRCRAFT MAINTENANCE MANUAL**

**LOGO LIGHTS - MAINTENANCE PRACTICES**

**1. General**

- A. This procedure has these tasks:
- (1) Logo Light Deactivation
  - (2) Logo Light Activation

**LOM ALL; AIRPLANES WITH LOGO LAMP LIGHTS**

- (3) Logo Light - Lamp Replacement

**LOM ALL; AIRPLANES WITH LOGO LED MODULE ASSEMBLY LIGHTS**

- (4) Logo Light - LED Module Replacement

**LOM 466-999**

- (5) Logo Light - Lamp Replacement (Alternate Procedure)

**LOM ALL**

- (6) Logo Light - Light Assembly Replacement

**TASK 33-49-00-040-801**

**2. Logo Light - Deactivation**

(Figure 201)

**A. General**

- (1) This procedure removes electrical power to the logo lights.

**B. Location Zones**

<b>Zone</b>	<b>Area</b>
211	Flight Compartment - Left
212	Flight Compartment - Right
332	Left Horizontal Stab - Front Spar to Rear Spar, Stab Sta 57.93 to Stab BL 281.81
342	Right Horizontal Stab - Front Spar to Rear Spar, Stab Sta 57.93 to Stab BL 281.81

**C. Procedure**

SUBTASK 33-49-00-860-009

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

**CAPT Electrical System Panel, P18-3**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
A	15	C00644	EXTERIOR LIGHTING LOGO ILLUM

**D. Logo Light - Tryout**

NOTE: This tryout is to make sure the Logo light is in a zero energy state.

SUBTASK 33-49-00-200-002

- (1) Do the following steps to make sure the power has been removed:
  - (a) At the overhead panel, P5, set the logo light switch to the ON Position
  - (b) Set the GALLEY switch on the P5-13 panel to the ON position.  
NOTE: On some airplanes the switch name is CAB/UTIL.
  - (c) Make sure the logo lights are off.

———— END OF TASK ————

EFFECTIVITY  
**LOM ALL**

**33-49-00**



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**TASK 33-49-00-440-801**

**3. Logo Light - Activation**

(Figure 201)

**A. General**

- (1) This procedure adds electrical power to the logo lights.

**B. Location Zones**

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right
332	Left Horizontal Stab - Front Spar to Rear Spar, Stab Sta 57.93 to Stab BL 281.81
342	Right Horizontal Stab - Front Spar to Rear Spar, Stab Sta 57.93 to Stab BL 281.81

**C. Procedure**

SUBTASK 33-49-00-860-010

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

**CAPT Electrical System Panel, P18-3**

Row	Col	Number	Name
A	15	C00644	EXTERIOR LIGHTING LOGO ILLUM

———— END OF TASK ————

LOM ALL; AIRPLANES WITH LOGO LAMP LIGHTS

**TASK 33-49-00-960-801**

**4. Logo Light - Lamp Replacement**

(Figure 201)

**A. References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
27-31-00-000-801	Elevator and Tab Control System - Deactivation (P/B 201)
27-31-00-400-801	Elevator and Tab Control System - Activation (P/B 201)
27-41-00-800-801	Horizontal Stabilizer Trim Control System - Deactivation (P/B 201)
27-41-00-800-802	Horizontal Stabilizer Trim Control System - Activation (P/B 201)

**B. Consumable Materials**

Reference	Description	Specification
C00528	Compound - Corrosion Preventive, Petroleum Hot Application (Soft Film)	MIL-C-11796 Class III
G01306	Gloves - Lint-free	

**C. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Lamp	33-49-00-01-070	LOM ALL



**33-49-00**



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**LOM ALL; AIRPLANES WITH LOGO LAMP LIGHTS (Continued)**

**D. Location Zones**

<b>Zone</b>	<b>Area</b>
332	Left Horizontal Stab - Front Spar to Rear Spar, Stab Sta 57.93 to Stab BL 281.81
342	Right Horizontal Stab - Front Spar to Rear Spar, Stab Sta 57.93 to Stab BL 281.81

**E. Logo Light Lamp Replacement**

SUBTASK 33-49-00-040-001

- (1) Do this task: Horizontal Stabilizer Trim Control System - Deactivation, TASK 27-41-00-800-801.

SUBTASK 33-49-00-040-002

- (2) Do this task: Elevator and Tab Control System - Deactivation, TASK 27-31-00-000-801.

SUBTASK 33-49-00-860-001

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

**CAPT Electrical System Panel, P18-3**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
A	15	C00644	EXTERIOR LIGHTING LOGO ILLUM

SUBTASK 33-49-00-010-001

- (4) Open the hinged panel assembly to gain access to the logo light assembly.

NOTE: The hinged panel assembly is located between access panels 333EB (343EB) and 333FB (343FB).

SUBTASK 33-49-00-960-001



DO NOT TOUCH THE HALOGEN LAMP WITH YOUR BARE SKIN. USE A CLOTH TO HOLD THE HALOGEN LAMP. IF YOUR SKIN TOUCHES THE HALOGEN LAMP, YOU WILL DECREASE ITS LIFE.

- (5) Do these steps to replace the lamp with lint-free gloves, G01306:

- (a) Loosen the two fasteners [4] and remove the socket cover [3] on the bottom of the logo light housing.

NOTE: The lanyard [8] stays connected.

- (b) Release the top spring [5] from the left hook [9] to remove the socket [2] (View C, Figure 201).

- (c) Remove the socket [2].

- (d) Release the lower spring [6] from the right hook [7] (View D, Figure 201).

- (e) Remove the lamp [1] from the rear of the reflector assembly [11] (View E, Figure 201).

- (f) Install the new lamp [1] to the reflector assembly [11].

- 1) Make sure that the lamp [1] is flush into the reflector assembly [11].

EFFECTIVITY  
LOM ALL

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**LOM ALL; AIRPLANES WITH LOGO LAMP LIGHTS (Continued)**



**CAUTION**  
MAKE SURE THAT THE LAMP ALIGNMENT IS WITH THE KEY ORIENTATION OF THE REFLECTOR ASSEMBLY. IF YOU DO NOT ALIGN IT CORRECTLY, DAMAGE TO THE EQUIPMENT CAN OCCUR.

- (g) Latch the lower spring [6] to the right hook [7] to hold the lamp [1] in its position (View D, Figure 201).

NOTE: The "V" bend on the lower spring [6] is larger than the top spring [5].

- 1) Make sure that the "V" bend of the lower spring [6] is against the edge of the lamp [1].



**CAUTION**  
DO NOT USE TOO MUCH FORCE. TOO MUCH FORCE CAN CAUSE DAMAGE TO THE LAMP PINS.

- (h) Carefully install the socket [2] to the lamp pins.

NOTE: You put the socket [2] to the lamp pins. You hold the socket [2] in its position by the top spring [5].

- 1) Make sure that the lower spring [6] is positioned under the socket [2] (View C, Figure 201).



**CAUTION**  
MAKE SURE THAT THE TOP SPRING IS CORRECTLY ALIGNED. IF YOU DO NOT ALIGN IT CORRECTLY, DAMAGE TO THE EQUIPMENT CAN OCCUR.

- (i) Latch the top spring [5] to the left hook [9] to hold the socket [2] in its position (View C, Figure 201).

- 1) Make sure that the socket [2] is seated firmly under the top spring [5].

- (j) Install the socket cover [3] and tighten the fasteners [4] with the corrosion-preventive compound, C00528.

**SUBTASK 33-49-00-940-001**

- (6) Close the hinged panel assembly.

**SUBTASK 33-49-00-860-002**

- (7) 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>
A	15	C00644	EXTERIOR LIGHTING LOGO ILLUM

**SUBTASK 33-49-00-440-001**

- (8) If it is necessary, do this task: Horizontal Stabilizer Trim Control System - Activation, TASK 27-41-00-800-802.

**SUBTASK 33-49-00-440-002**

- (9) If it is necessary, do this task: Elevator and Tab Control System - Activation, TASK 27-31-00-400-801.

**SUBTASK 33-49-00-860-003**

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

EFFECTIVITY  
**LOM ALL**

**33-49-00**



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**LOM ALL; AIRPLANES WITH LOGO LAMP LIGHTS (Continued)**

SUBTASK 33-49-00-710-001

- (11) Do a test of the new lamp:

**LOM ALL**

- (a) Set the GALLEY switch, on the P5-13 panel, to the ON position.

NOTE: On some airplanes the switch name is CAB/UTIL.

**LOM ALL; AIRPLANES WITH LOGO LAMP LIGHTS**

- (b) At the P5 overhead panel, set the switch for the logo lights to the on mode.

1) Make sure that the lamp comes on.

2) It can be necessary to adjust the direction of the light beam. Turn the adjustment screws below the housing until the light beam is on the logo.

**LOM ALL**

- (c) Set the GALLEY switch, on the P5-13 panel, to the OFF position.

NOTE: On some airplanes the switch name is CAB/UTIL.

**LOM ALL; AIRPLANES WITH LOGO LAMP LIGHTS**

- (d) Set the switch for the logo lights to the off mode.

1) Make sure that the lamp goes off.

**F. Put the Airplane Back to Its Usual Condition**

SUBTASK 33-49-00-860-004

- (1) If electrical power is not necessary, then do this task: Remove Electrical Power, TASK 24-22-00-860-812.

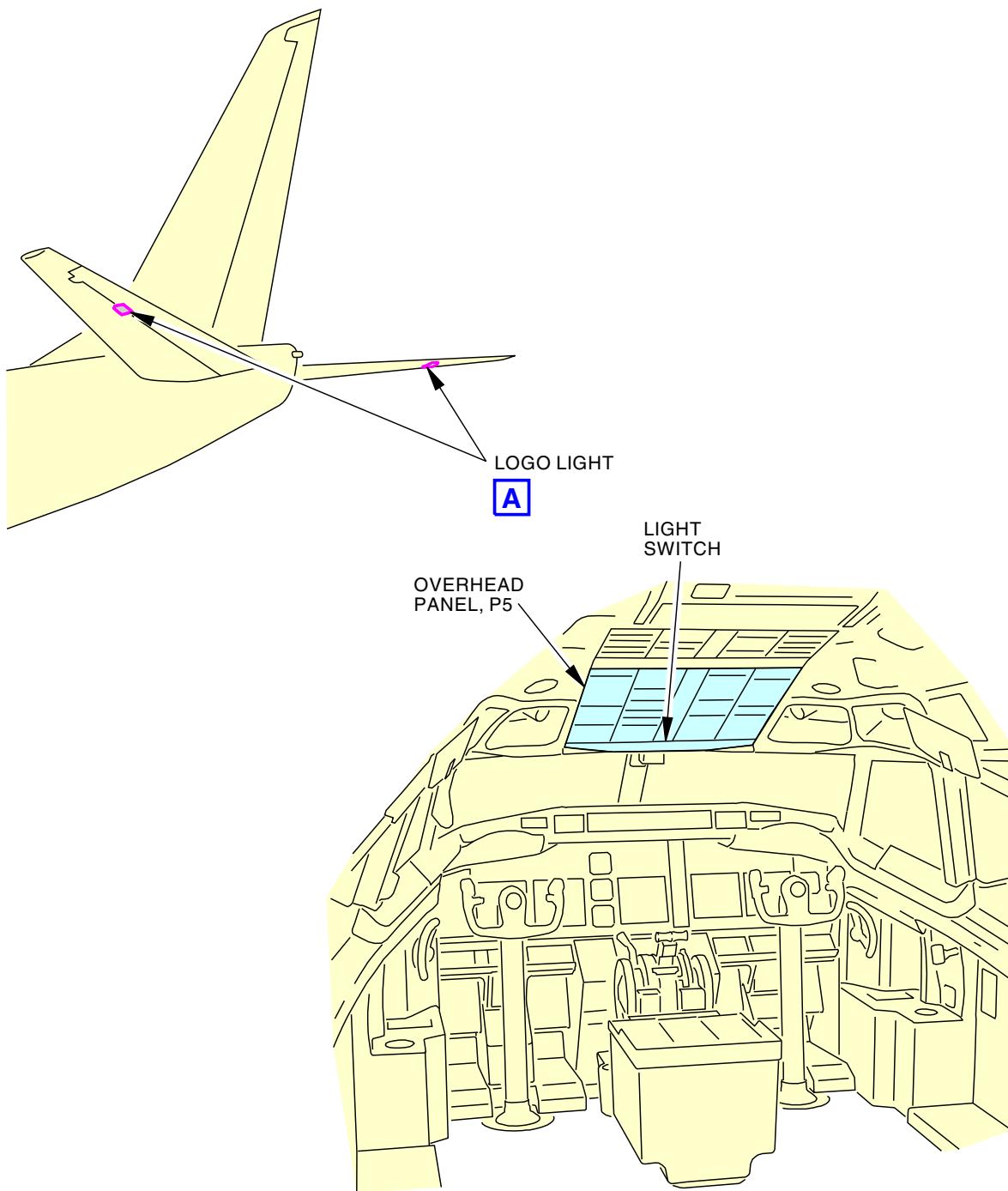
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EFFECTIVITY  
LOM ALL

**33-49-00**



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FLIGHT COMPARTMENT

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**Logo Light - Lamp Replacement**  
Figure 201/33-49-00-990-801 (Sheet 1 of 3)

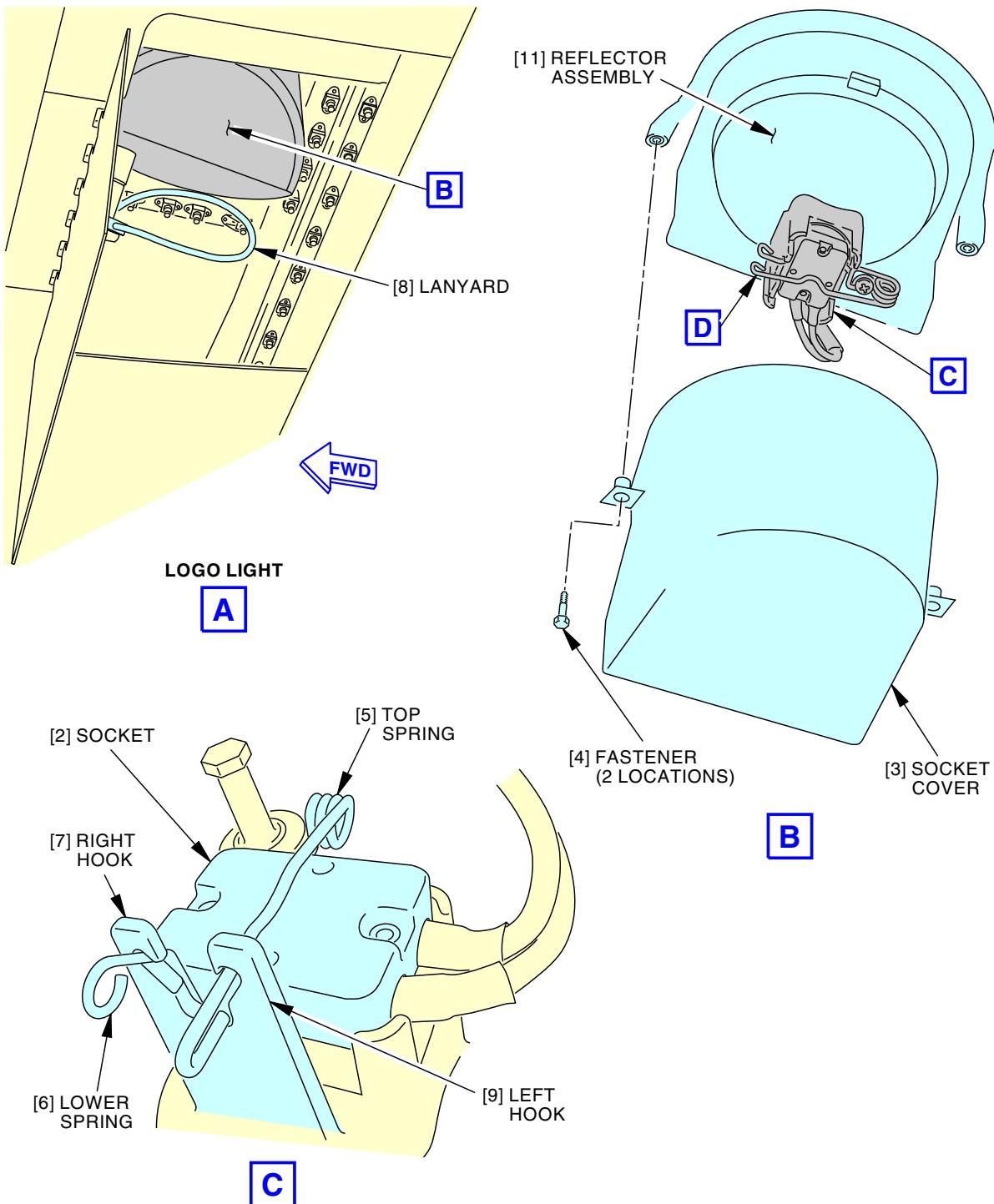
EFFECTIVITY  
LOM ALL; AIRPLANES WITH LOGO LAMP LIGHTS

**33-49-00**

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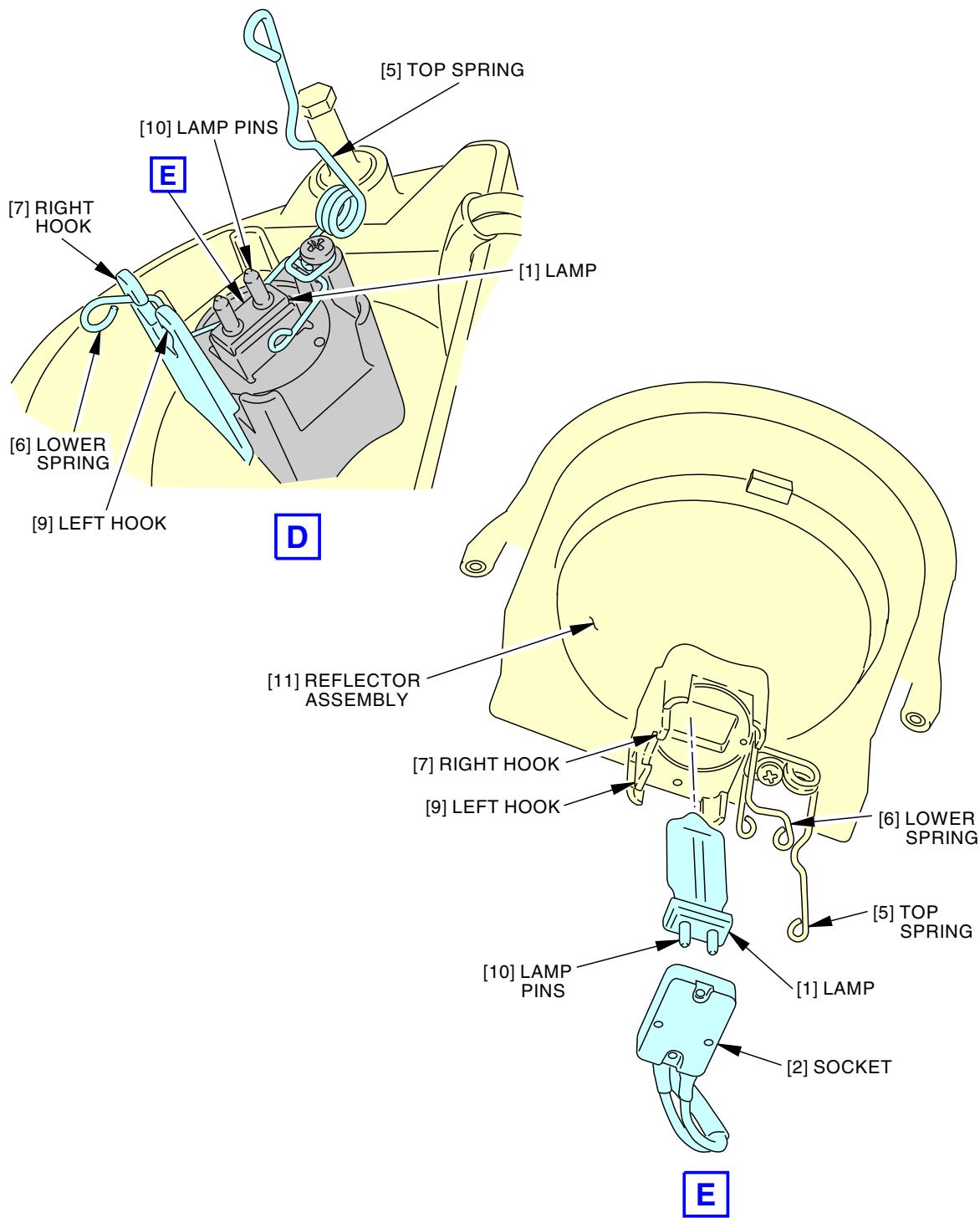
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**Logo Light - Lamp Replacement**  
Figure 201/33-49-00-990-801 (Sheet 2 of 3)

EFFECTIVITY  
LOM ALL; AIRPLANES WITH LOGO LAMP LIGHTS

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**Logo Light - Lamp Replacement**  
**Figure 201/33-49-00-990-801 (Sheet 3 of 3)**

EFFECTIVITY  
**LOM ALL; AIRPLANES WITH LOGO LAMP LIGHTS**

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LOM ALL; AIRPLANES WITH LOGO LED MODULE ASSEMBLY LIGHTS

**TASK 33-49-00-960-804**

**5. Logo Light - LED Module Replacement**

**A. General**

- (1) This procedure gives the steps necessary for the logo light LED module replacement.

**B. References**

Reference	Title
27-31-00-000-801	Elevator and Tab Control System - Deactivation (P/B 201)
27-31-00-400-801	Elevator and Tab Control System - Activation (P/B 201)
27-41-00-800-801	Horizontal Stabilizer Trim Control System - Deactivation (P/B 201)
27-41-00-800-802	Horizontal Stabilizer Trim Control System - Activation (P/B 201)

**C. Location Zones**

Zone	Area
332	Left Horizontal Stab - Front Spar to Rear Spar, Stab Sta 57.93 to Stab BL 281.81
342	Right Horizontal Stab - Front Spar to Rear Spar, Stab Sta 57.93 to Stab BL 281.81

**D. LED Module Replacement**

SUBTASK 33-49-00-040-003

- (1) Do this task: Horizontal Stabilizer Trim Control System - Deactivation, TASK 27-41-00-800-801.

SUBTASK 33-49-00-040-004

- (2) Do this task: Elevator and Tab Control System - Deactivation, TASK 27-31-00-000-801.

SUBTASK 33-49-00-860-020

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

**CAPT Electrical System Panel, P18-3**

Row	Col	Number	Name
A	15	C00644	EXTERIOR LIGHTING LOGO ILLUM

SUBTASK 33-49-00-010-004

- (4) Open the hinged panel assembly to gain access to the logo light LED module assembly.

NOTE: The hinged panel assembly is located between access panels 333EB and 333FB (343EB and 343FB on the right wing).

SUBTASK 33-49-00-960-005

- (5) Do these steps to replace the LED module assembly [30]:

- (a) Remove the captive screws [31].
- (b) Pull down the LED module assembly [30].
- (c) Disconnect the connector [32] at J2.
- (d) Remove the captive screw [33] from the LED module assembly [30].
- (e) Install a new LED module assembly [30].
- (f) Connect the connector [32] at J2.
- (g) Install the captive screw [33] to the LED module assembly [30].
- (h) Install the captive screws [31].

EFFECTIVITY  
LOM ALL

**33-49-00**



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**LOM ALL; AIRPLANES WITH LOGO LED MODULE ASSEMBLY LIGHTS (Continued)**

SUBTASK 33-49-00-940-004

- (6) Close the hinged panel assembly.

SUBTASK 33-49-00-860-021

- (7) 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>
A	15	C00644	EXTERIOR LIGHTING LOGO ILLUM

SUBTASK 33-49-00-440-003

- (8) If it is necessary, do this task: Horizontal Stabilizer Trim Control System - Activation, TASK 27-41-00-800-802.

SUBTASK 33-49-00-440-004

- (9) If it is necessary, do this task: Elevator and Tab Control System - Activation, TASK 27-31-00-400-801.

SUBTASK 33-49-00-710-005

- (10) Do a test of the new LED module:

**LOM ALL**

- (a) Set the GALLEY switch on the P5-13 panel to the ON position.

NOTE: On some airplanes the switch name is CAB/UTIL.

**LOM ALL; AIRPLANES WITH LOGO LED MODULE ASSEMBLY LIGHTS**

- (b) At the overhead panel, P5, set the switch for the logo lights to the ON position.

1) Make sure the lamp comes on.

2) It can be necessary to adjust the direction of the light beam. Turn the adjustment screws below the housing until the light beam is on the logo.

**LOM ALL**

- (c) Set the GALLEY switch on the P5-13 panel to the OFF position.

NOTE: On some airplanes the switch name is CAB/UTIL.

**LOM ALL; AIRPLANES WITH LOGO LED MODULE ASSEMBLY LIGHTS**

- (d) At the overhead panel, P5, set the switch for the logo lights to the OFF position.

1) Make sure the lamp goes off.

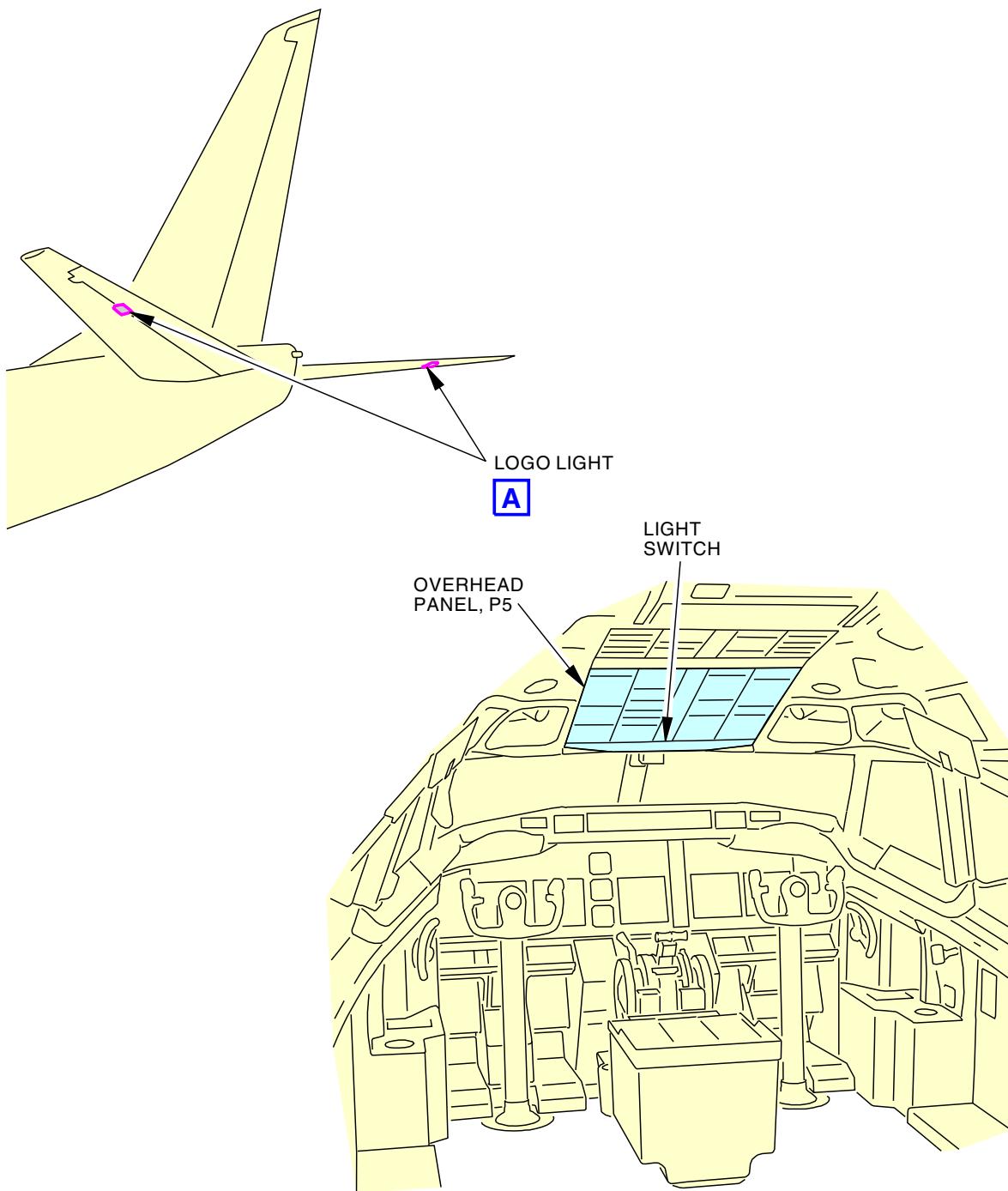
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FLIGHT COMPARTMENT

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**Logo Light - LED Module Replacement**  
Figure 202/33-49-00-990-804 (Sheet 1 of 2)

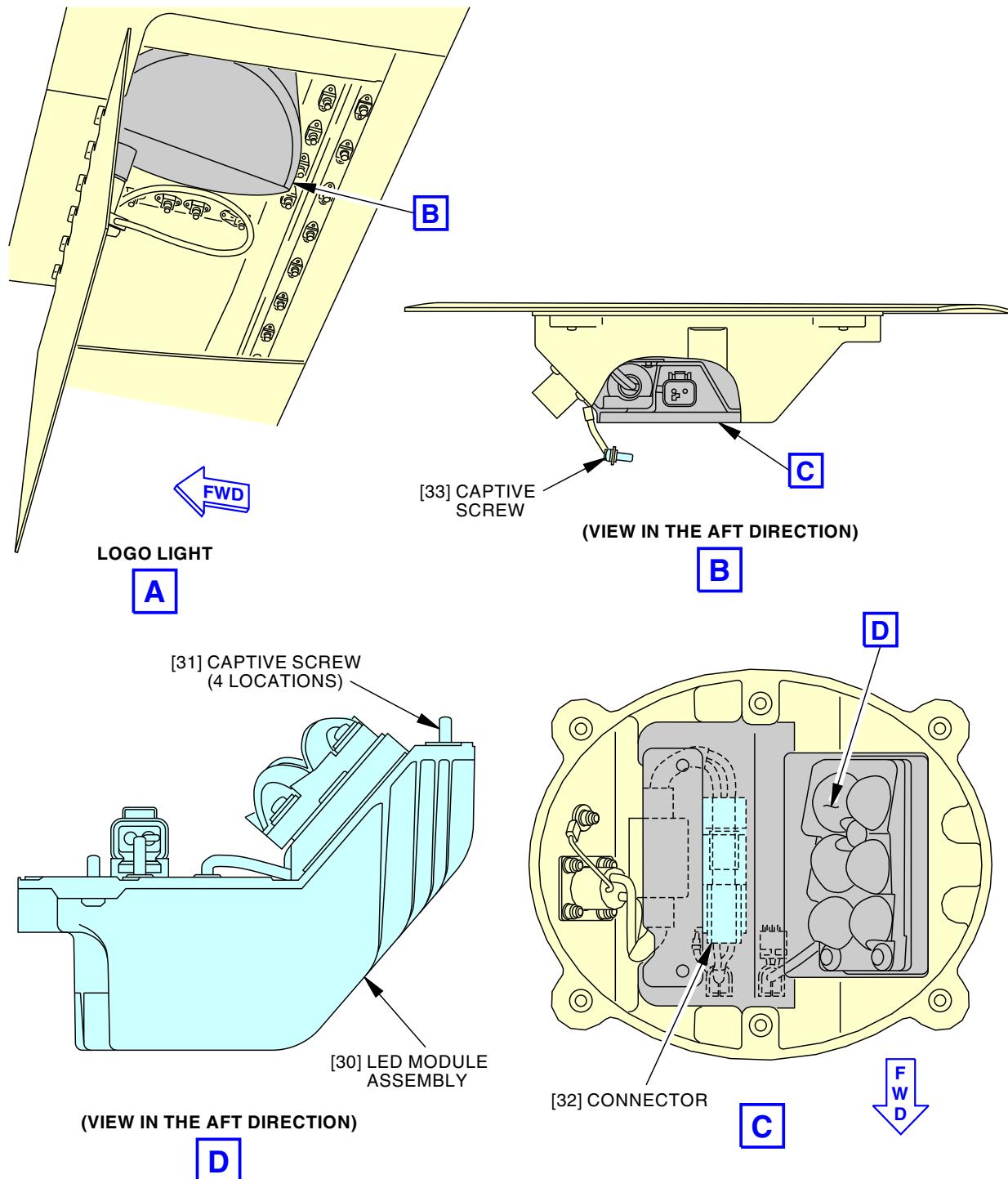
EFFECTIVITY  
LOM ALL; AIRPLANES WITH LOGO LED MODULE  
ASSEMBLY LIGHTS

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**Logo Light - LED Module Replacement**  
**Figure 202/33-49-00-990-804 (Sheet 2 of 2)**

EFFECTIVITY  
 LOM ALL; AIRPLANES WITH LOGO LED MODULE  
 ASSEMBLY LIGHTS

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LOM 466-999

**TASK 33-49-00-960-803**

**6. Logo Light - Lamp Replacement (Alternate Procedure)**

(Figure 203)

**A. References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)

**B. Consumable Materials**

Reference	Description	Specification
A02315	Sealant - Low Density, Synthetic Rubber. 2 Part	BMS5-142 Type II
G01306	Gloves - Lint-free	

**C. Location Zones**

Zone	Area
332	Left Horizontal Stab - Front Spar to Rear Spar, Stab Sta 57.93 to Stab BL 281.81
342	Right Horizontal Stab - Front Spar to Rear Spar, Stab Sta 57.93 to Stab BL 281.81

**D. Access Panels**

Number	Name/Location
333EB	Horizontal Stabilizer, Access Panel, Trailing Edge
343EB	Horizontal Stabilizer, Access Panel - T.E. Area

**E. Procedure**

SUBTASK 33-49-00-860-011

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

**CAPT Electrical System Panel, P18-3**

Row	Col	Number	Name
A	15	C00644	EXTERIOR LIGHTING LOGO ILLUM

SUBTASK 33-49-00-010-002

- (2) Open the applicable access panels below the logo light:

**Number      Name/Location**

333EB	Horizontal Stabilizer, Access Panel, Trailing Edge
343EB	Horizontal Stabilizer, Access Panel - T.E. Area

SUBTASK 33-49-00-960-003



**CAUTION**

DO NOT TOUCH THE HALOGEN LAMP WITH YOUR BARE SKIN. USE A CLOTH TO HOLD THE HALOGEN LAMP. IF YOUR SKIN TOUCHES THE HALOGEN LAMP, YOU WILL DECREASE ITS LIFE.

- (3) Do these steps to replace the lamp with lint-free gloves, G01306:

- (a) Loosen the screws [2] and remove the lens assembly [1].
- (b) Remove the adjusting screws [5] and reflector [3].
- (c) Make sure that the gasket [6] is not damaged.
- (d) Remove the lamp [4].

EFFECTIVITY  
LOM ALL

**33-49-00**



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LOM 466-999 (Continued)



DO NOT USE TOO MUCH FORCE. TOO MUCH FORCE CAN CAUSE DAMAGE TO THE LAMP PINS.

**CAUTION**

- (e) Align the lamp contacts to socket holes and carefully push the new lamp [4] directly into the socket.

NOTE: Do not use force to push the lamp pins in the socket. Socket contact damage can cause premature lamp failure and the early replacement of the logo light assembly.

- (f) Install the reflector [3] and adjusting screws [5].

SUBTASK 33-49-00-940-002

- (4) Close the applicable access panels:

**Number      Name/Location**

333EB	Horizontal Stabilizer, Access Panel, Trailing Edge
343EB	Horizontal Stabilizer, Access Panel - T.E. Area

SUBTASK 33-49-00-860-012

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

**CAPT Electrical System Panel, P18-3**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
A	15	C00644	EXTERIOR LIGHTING LOGO ILLUM

SUBTASK 33-49-00-860-013

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

SUBTASK 33-49-00-710-003

- (7) Do a test of the new lamp:

- (a) Set the GALLEY switch on the P5-13 panel to the ON position.

NOTE: On some airplanes the switch name is CAB/UTIL.

- (b) At the overhead panel, P5, set the switch for the logo lights to the on mode.

- 1) Make sure the lamp comes on.

- 2) It can be necessary to adjust the direction of the light beam. Turn the adjustment screws below the housing until the light beam is on the logo.

- (c) Set the GALLEY switch on the P5-13 panel to the OFF position.

NOTE: On some airplanes the switch name is CAB/UTIL.

- (d) Set the switch for the logo lights to the off mode.

- 1) Make sure the lamp goes off.

SUBTASK 33-49-00-410-001

- (8) Do these steps to install the lens assembly [1]:

- (a) Install the lens assembly [1] and tighten the screws [2].

- (b) Apply sealant, A02315 to the clearance between the lens assembly [1] and the airplane skin.

EFFECTIVITY  
LOM ALL

**33-49-00**



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LOM 466-999 (Continued)

**F. Put the Airplane Back to Its Usual Condition**

SUBTASK 33-49-00-860-014

- (1) If electrical power is not necessary, then do this task: Remove Electrical Power, TASK 24-22-00-860-812.

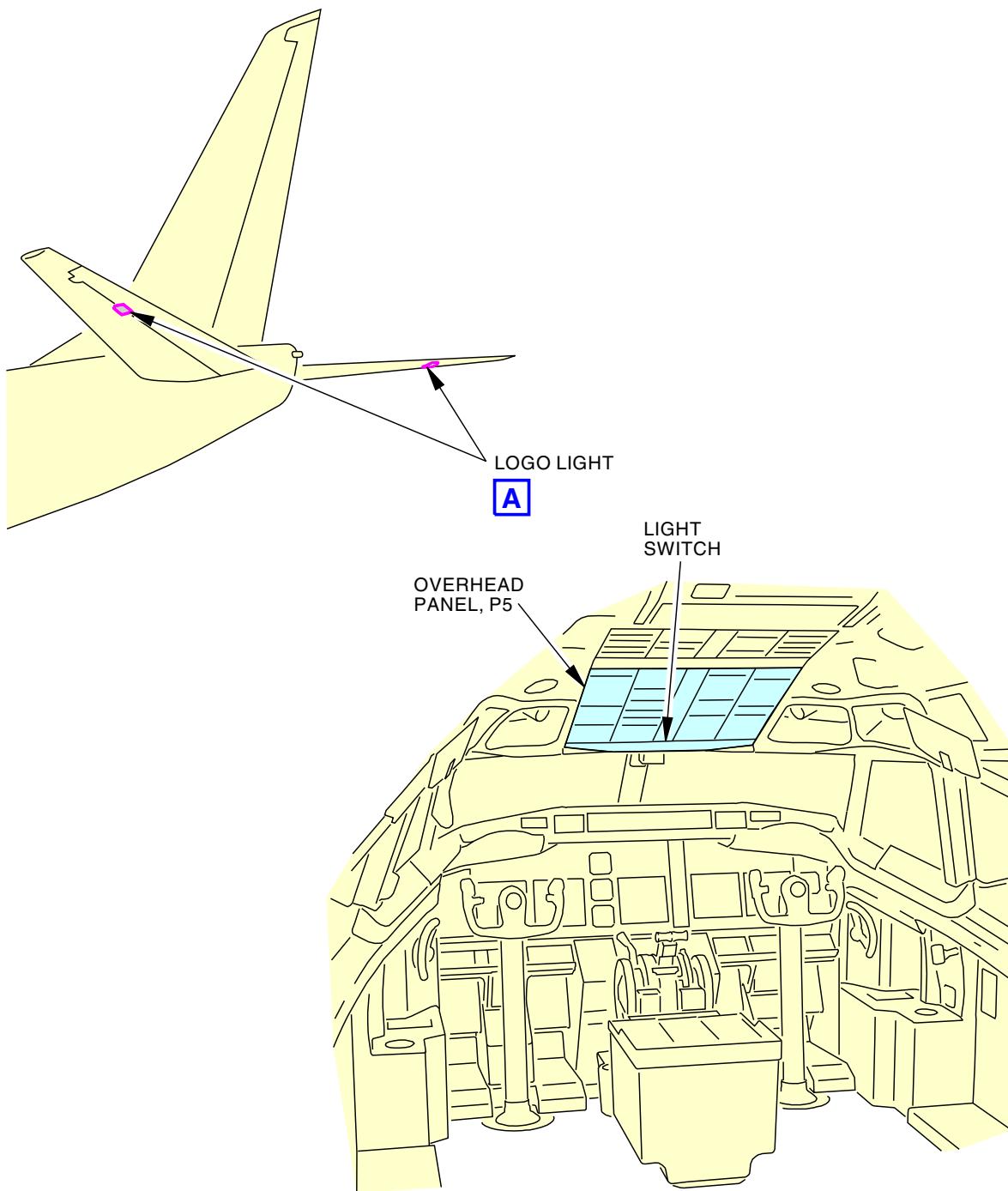
———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-49-00**



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**Logo Light - Lamp Replacement (Alternate Procedure)**  
**Figure 203/33-49-00-990-803 (Sheet 1 of 2)**

EFFECTIVITY  
LOM 466-999

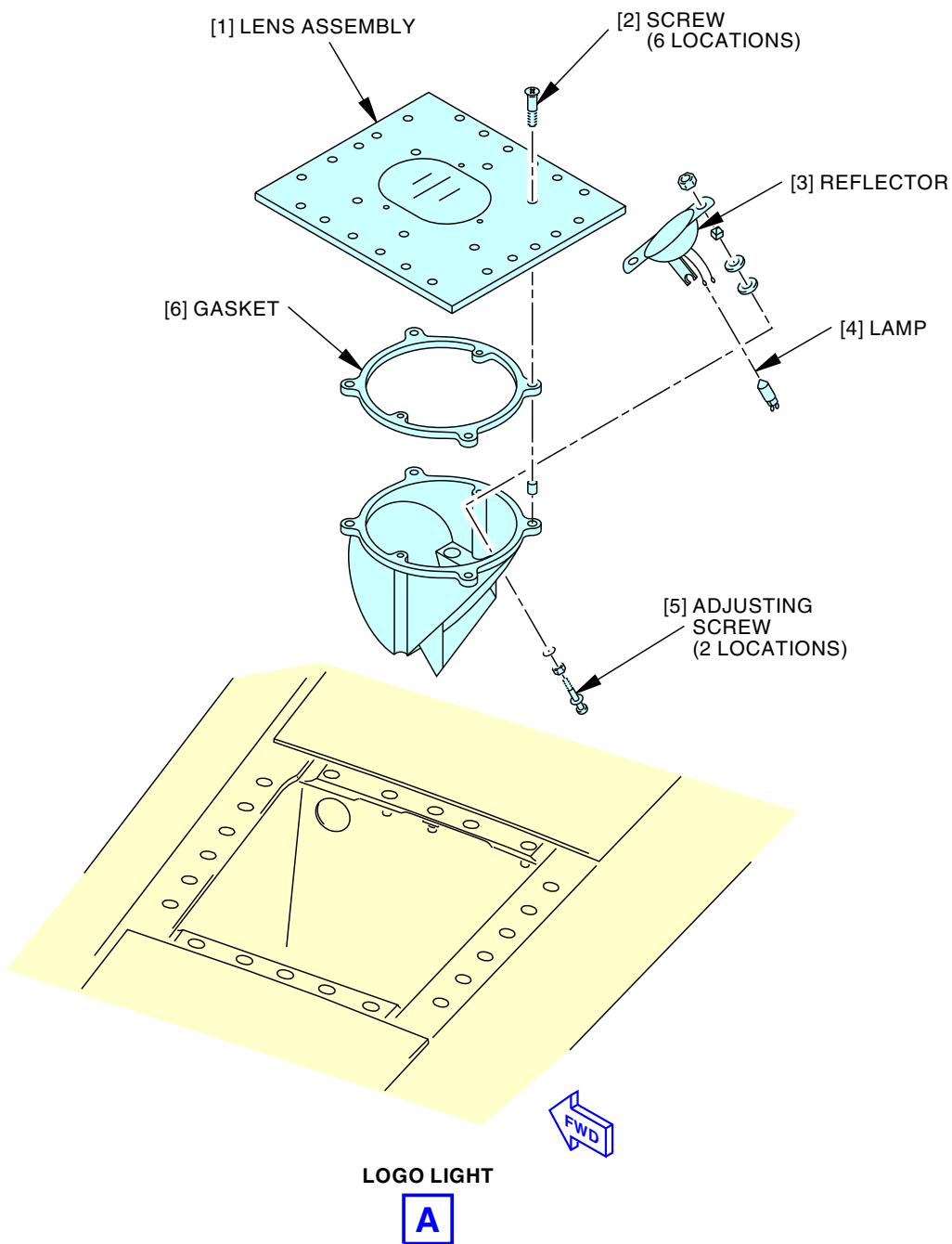
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**737-600/700/800/900**  
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**Logo Light - Lamp Replacement (Alternate Procedure)**  
**Figure 203/33-49-00-990-803 (Sheet 2 of 2)**

EFFECTIVITY  
**LOM 466-999**

**33-49-00**

D633A101-LOM

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AIRCRAFT MAINTENANCE MANUAL

LOM ALL

**TASK 33-49-00-960-802**

**7. Logo Light - Light Assembly Replacement**

(Figure 201, Figure 204)

**A. General**

- (1) When you replace the light assembly, do not discard it. Usually, you can repair the assembly with a new transformer. Do the repairs in a shop.

**B. References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
27-31-00-000-801	Elevator and Tab Control System - Deactivation (P/B 201)
27-31-00-400-801	Elevator and Tab Control System - Activation (P/B 201)
27-41-00-800-801	Horizontal Stabilizer Trim Control System - Deactivation (P/B 201)
27-41-00-800-802	Horizontal Stabilizer Trim Control System - Activation (P/B 201)
51-21-41-370-802	Bonderite M-CR 600 Aero, Bonderite M-CR Alcrm 1200 Aero or Bonderite M-CR 1200S Aero Application Process (P/B 701)
51-31-00-390-806	Aerodynamic Smoother Application (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-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

**D. Consumable Materials**

Reference	Description	Specification
A02315	Sealant - Low Density, Synthetic Rubber. 2 Part	BMS5-142 Type II
C00064	Coating - Aluminum Chemical Conversion	BAC5719 Type II Class A (MIL-DTL-5541 Class 1A)
C00528	Compound - Corrosion Preventive, Petroleum Hot Application (Soft Film)	MIL-C-11796 Class III
G01306	Gloves - Lint-free	



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**E. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
22	Light assembly	33-49-00-01-010	LOM ALL
		33-49-00-01-015	LOM ALL
		33-49-00-01-230	LOM ALL
		33-49-00-01-235	LOM ALL

**F. Location Zones**

Zone	Area
332	Left Horizontal Stab - Front Spar to Rear Spar, Stab Sta 57.93 to Stab BL 281.81
342	Right Horizontal Stab - Front Spar to Rear Spar, Stab Sta 57.93 to Stab BL 281.81

**G. Light Assembly Replacement - Method 1**

SUBTASK 33-49-00-040-005

- (1) Do this task: Horizontal Stabilizer Trim Control System - Deactivation, TASK 27-41-00-800-801.

SUBTASK 33-49-00-040-006

- (2) Do this task: Elevator and Tab Control System - Deactivation, TASK 27-31-00-000-801.

SUBTASK 33-49-00-860-005

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

**CAPT Electrical System Panel, P18-3**

Row	Col	Number	Name
A	15	C00644	EXTERIOR LIGHTING LOGO ILLUM

SUBTASK 33-49-00-960-002

- (4) Do these steps to replace the light assembly:

- (a) Remove the bolts [21] on the top of the light assembly.
- (b) Lift up the light assembly [22].
- (c) Disconnect the electrical connector [23].
- (d) Replace the light assembly [22].

- 1) Make sure a lamp is installed in the new light assembly.

NOTE: Do not touch the new lamp with your hands. Use lint-free gloves, G01306.

- (e) Do these steps to prepare the electrical bonding fay surface areas of the light assembly [22] mounting flange and the airplane support structure:
  - 1) Clean a 0.50 in. (12.70 mm) - 0.75 in. (19.05 mm) diameter area around the fastener locations shown on the bottom surface of the light assembly [22] mounting flange and the top surface of the aircraft support structure (View A, Figure 204), (SWPM 20-20-00).
  - 2) Apply coating, C00064 to bare aluminum surfaces as necessary (TASK 51-21-41-370-802).
- (f) Connect the electrical connector [23].
- (g) Put the light assembly [22] in its position.
- (h) Install the bolts [21] with the corrosion-preventative compound, C00528.
- (i) Measure the electrical bonding resistance with the intrinsically safe approved bonding meter, COM-1550 between the light assembly [22] and the fuselage (SWPM 20-20-00).

EFFECTIVITY  
LOM ALL

**33-49-00**



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

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-431**

- 1) Make sure that the bonding resistance is 0.0025 ohms or less.

**LOM 432-434, 437-447, 450-999**

- 2) Make sure that the bonding resistance is 0.0005 ohms or less.

**LOM ALL**

SUBTASK 33-49-00-860-006

- (5) 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>
A	15	C00644	EXTERIOR LIGHTING LOGO ILLUM

SUBTASK 33-49-00-440-005

- (6) If it is necessary, do this task: Horizontal Stabilizer Trim Control System - Activation, TASK 27-41-00-800-802.

SUBTASK 33-49-00-440-006

- (7) If it is necessary, do this task: Elevator and Tab Control System - Activation, TASK 27-31-00-400-801.

SUBTASK 33-49-00-710-002

- (8) Do a test of the light assembly:

- (a) Set the GALLEY switch on the P5-13 panel to the ON position.

NOTE: On some airplanes the switch name is CAB/UTIL.

- (b) At the overhead panel, P5, set the switch for the logo lights to the ON mode.

- 1) Make sure the light comes on.

- 2) If it is necessary to adjust the direction of the light beam, do these steps:

- a) Open the hinged access panel to get access to the bottom of the light assembly [22].

NOTE: The hinged access panel is located between access panels 333EB and 333FB (343EB and 343FB on the right wing).

- b) Turn the adjustment screws below the housing until the light beam is on the logo.

- c) Close the hinged access panel.

- (c) Set the GALLEY switch on the P5-13 panel to the OFF position.

NOTE: On some airplanes the switch name is CAB/UTIL.

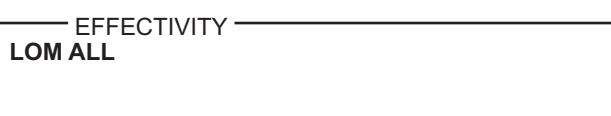
- (d) Set the logo lights switch to the OFF mode.

- 1) Make sure the light goes off.

SUBTASK 33-49-00-010-005

- (9) Open the hinged access panel to get access to the bottom of the light assembly [22].

NOTE: The hinged access panel is located between access panels 333EB and 333FB (343EB and 343FB on the right wing).



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**AIRCRAFT MAINTENANCE MANUAL**

**LOM 447, 450-999**

SUBTASK 33-49-00-390-002

- (10) Apply a small quantity of sealant, A02315 to fill the empty space caused by the joggle in the airplane structure (TASK 51-31-00-390-806).

**LOM ALL**

SUBTASK 33-49-00-390-003

- (11) Apply sealant, A02315 around the edges of the joint between the bottom surface of the light assembly [22] mounting flange and the airplane support structure (SWPM 20-20-00).

SUBTASK 33-49-00-940-006

- (12) Close the hinged access panel.

SUBTASK 33-49-00-390-001

- (13) Apply an aerodynamic seal to the perimeter of the light assembly [22] with sealant, A02315 (TASK 51-31-00-390-806).

SUBTASK 33-49-00-860-008

- (14) If electrical power is not necessary, do this task: Remove Electrical Power, TASK 24-22-00-860-812.

**H. Light Assembly Replacement - Method 2 (without removing the Lens Assembly)**

SUBTASK 33-49-00-040-007

- (1) Do this task: Horizontal Stabilizer Trim Control System - Deactivation, TASK 27-41-00-800-801.

SUBTASK 33-49-00-040-008

- (2) Do this task: Elevator and Tab Control System - Deactivation, TASK 27-31-00-000-801.

SUBTASK 33-49-00-860-015

- (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>
A	15	C00644	EXTERIOR LIGHTING LOGO ILLUM

SUBTASK 33-49-00-010-003

- (4) Open the hinged panel assembly to gain access to the logo light assembly.

NOTE: The hinged panel assembly is located between access panels 333EB and 333FB (343EB and 343FB on the right wing).

SUBTASK 33-49-00-960-004

- (5) Do these steps to replace the light assembly:

- Remove the screws [2] on the top of the light assembly.
- Disconnect the electrical connector [23].
- Replace the light assembly [22].

1) Make sure that the gasket [6] is not damaged.

2) Make sure a lamp is installed in the new light assembly.

NOTE: Do not touch the new lamp with your hands. Use lint-free gloves, G01306.

- Connect the electrical connector [23].
- Put the light assembly [22] and the gasket [6] in their position.
- Install the screws [2] on the top of the light assembly.

EFFECTIVITY  
**LOM ALL**

**33-49-00**



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- (g) With the intrinsically safe approved bonding meter, COM-1550, make sure the resistance between the light assembly and the fuselage measures no more than 0.0025 ohms.

SUBTASK 33-49-00-860-017

- (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>
A	15	C00644	EXTERIOR LIGHTING LOGO ILLUM

SUBTASK 33-49-00-440-007

- (7) If it is necessary, do this task: Horizontal Stabilizer Trim Control System - Activation, TASK 27-41-00-800-802.

SUBTASK 33-49-00-440-008

- (8) If it is necessary, do this task: Elevator and Tab Control System - Activation, TASK 27-31-00-400-801.

SUBTASK 33-49-00-860-018

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

SUBTASK 33-49-00-710-004

- (10) Do a test of the light assembly:

- (a) Set the GALLEY switch on the P5-13 panel to the ON position.

NOTE: On some airplanes the switch name is CAB/UTIL.

- (b) At the overhead panel, P5, set the switch for the logo lights to the ON mode.

- 1) Make sure the light comes on.

- 2) It can be necessary to adjust the direction of the light beam. Turn the adjusting screw [5] below the housing until the light beam is on the logo.

- (c) Set the GALLEY switch on the P5-13 panel to the OFF position.

NOTE: On some airplanes the switch name is CAB/UTIL.

- (d) Set the switch for the logo lights to the OFF mode.

- 1) Make sure the light goes off.

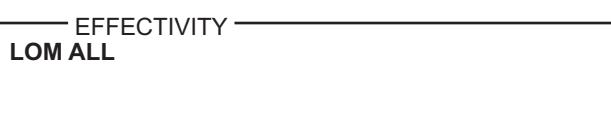
SUBTASK 33-49-00-940-003

- (11) Close the hinged panel assembly.

SUBTASK 33-49-00-860-019

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

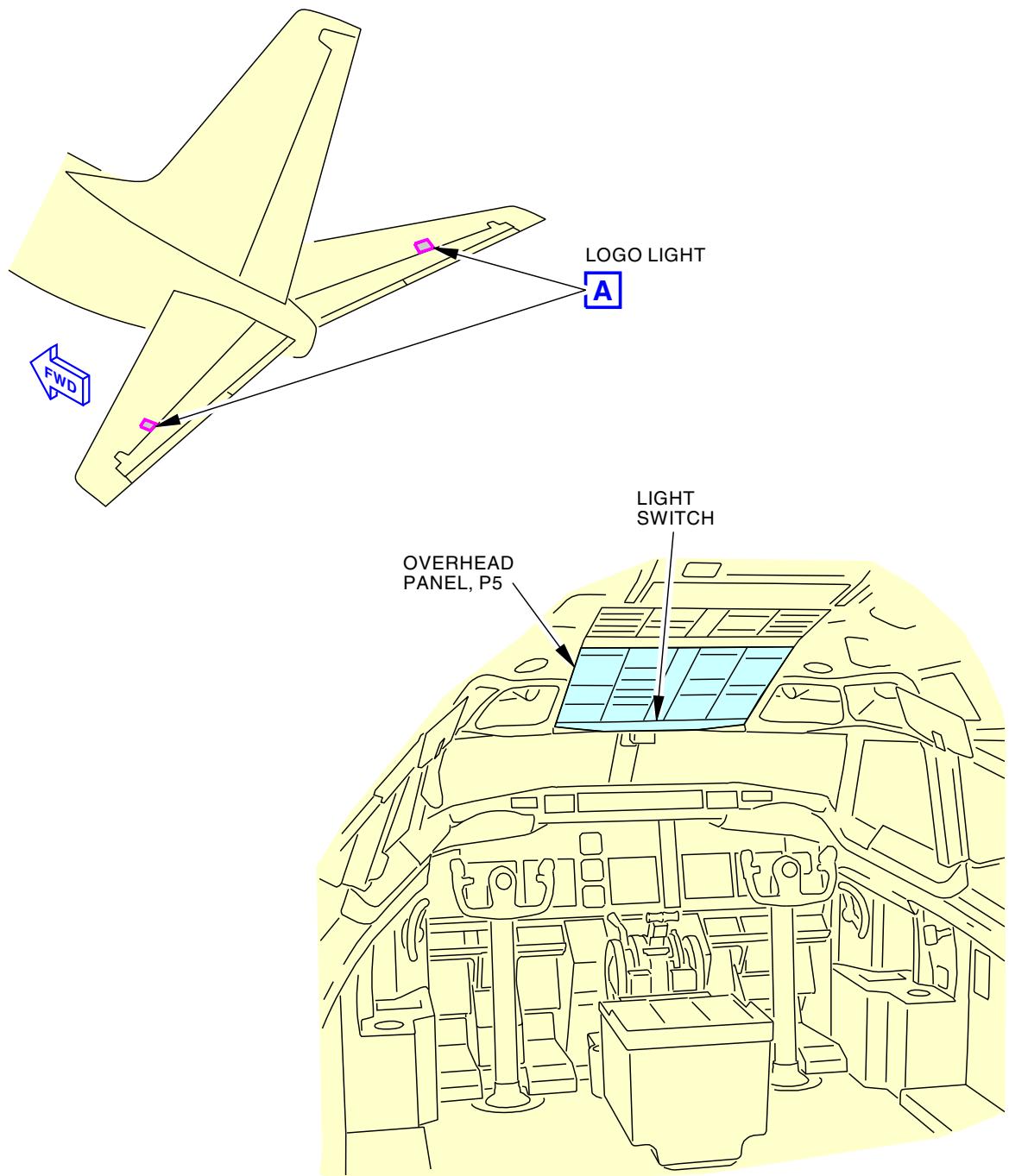
———— END OF TASK ————



**33-49-00**



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FLIGHT COMPARTMENT

G05455 S0006576347\_V2

**Logo Light - Light Assembly Replacement**  
**Figure 204/33-49-00-990-802 (Sheet 1 of 4)**

EFFECTIVITY  
LOM ALL

**33-49-00**

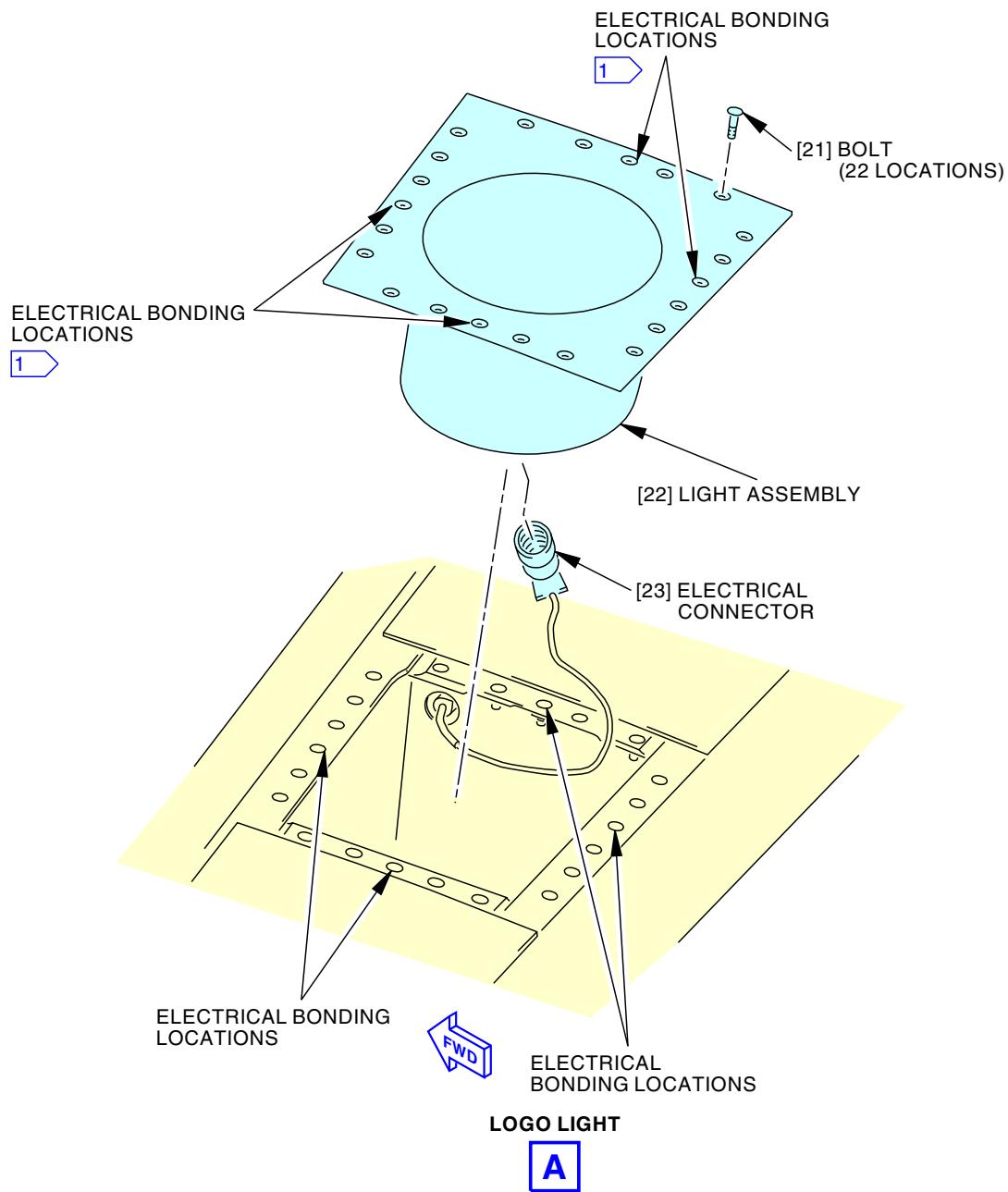
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[1] BONDING LOCATIONS ARE ON THE BOTTOM SURFACE OF THE LIGHT ASSEMBLY MOUNTING FLANGE

G05454 S0006576348\_V6

**Logo Light - Light Assembly Replacement**  
**Figure 204/33-49-00-990-802 (Sheet 2 of 4)**

EFFECTIVITY  
LOM ALL

**33-49-00**

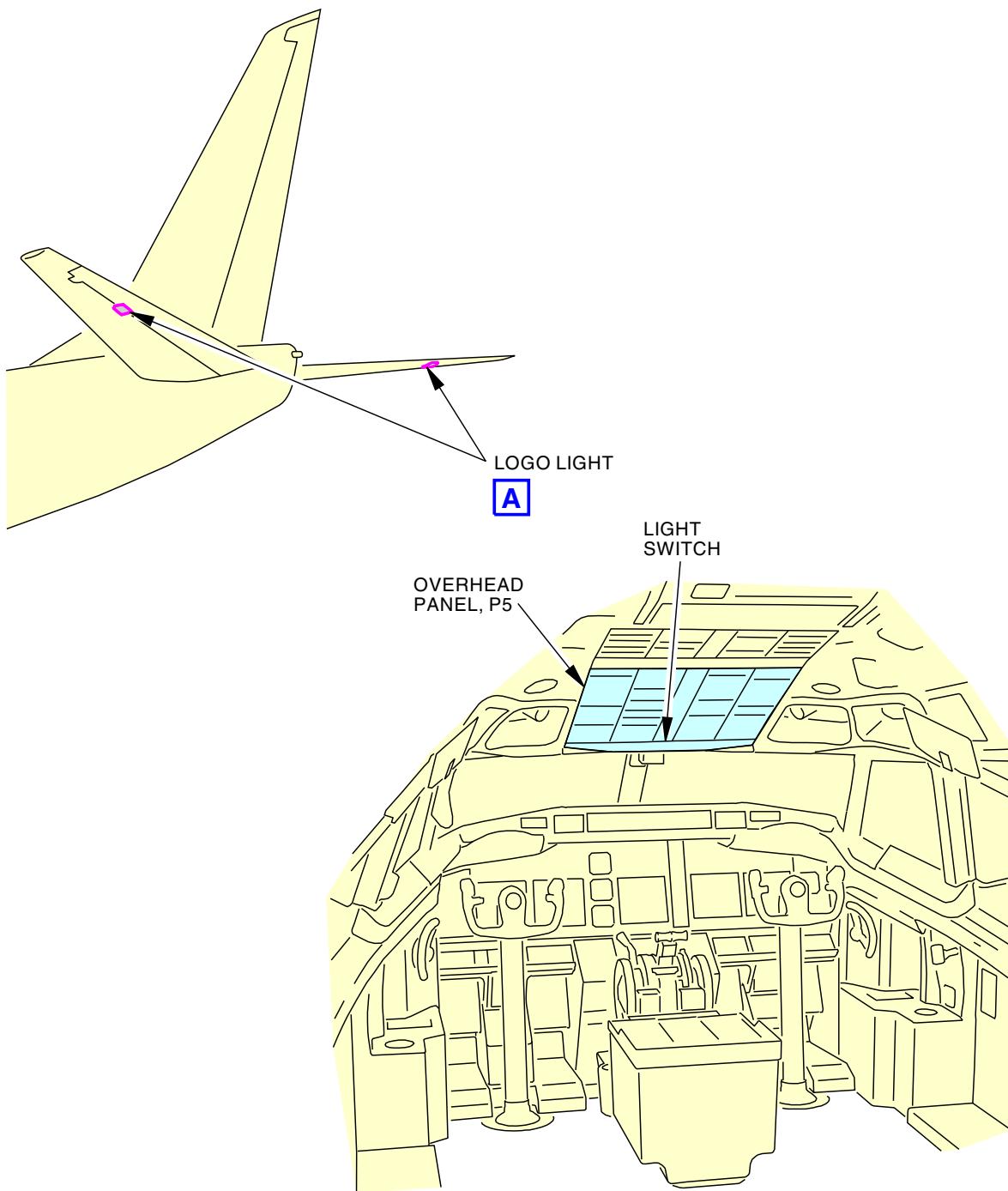
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FLIGHT COMPARTMENT

G05447 S0006576344\_V3

**Logo Light - Light Assembly Replacement**  
Figure 204/33-49-00-990-802 (Sheet 3 of 4)

EFFECTIVITY  
LOM ALL

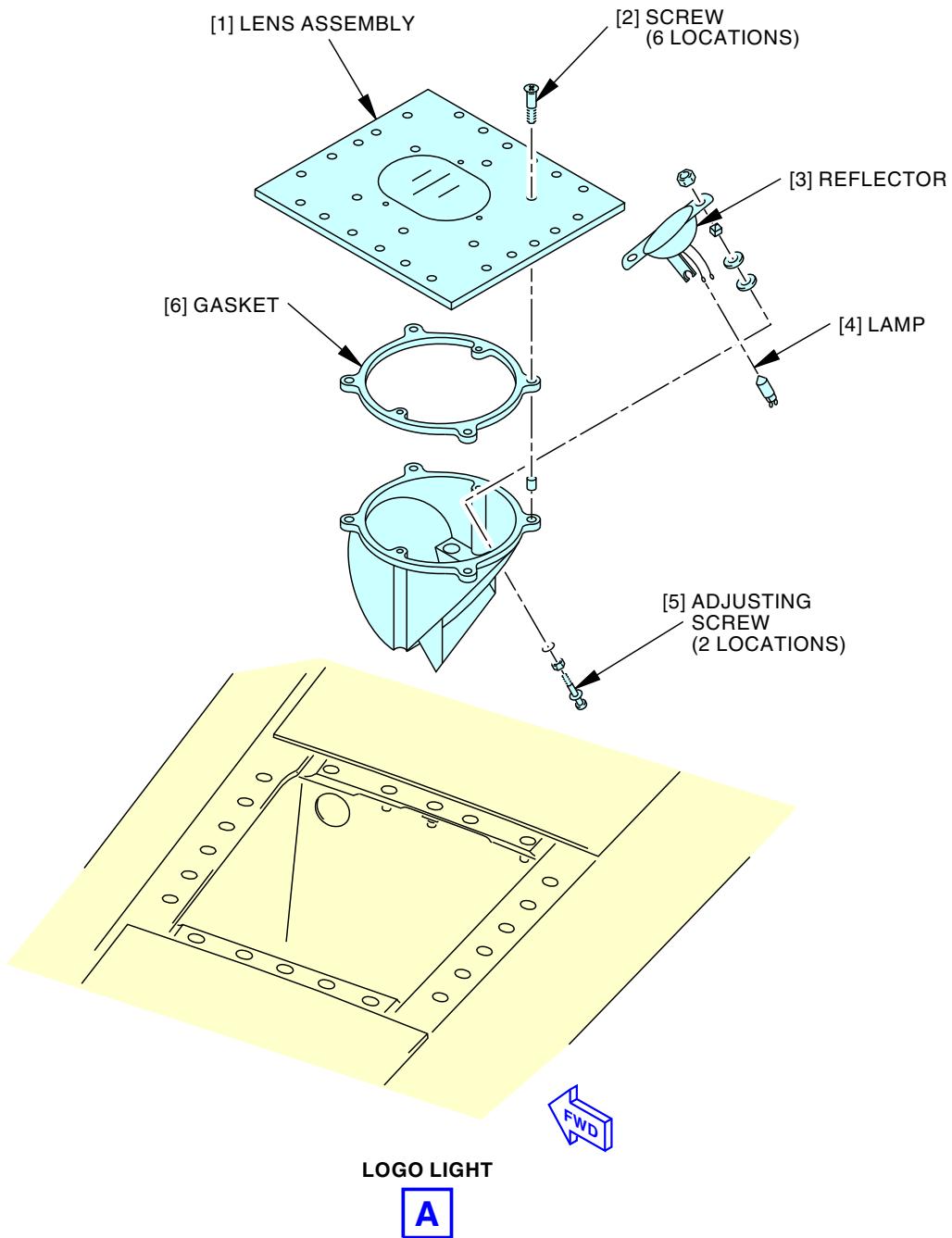
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**BOEING**  
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2432692 S0000563190\_V1

**Logo Light - Light Assembly Replacement**  
Figure 204/33-49-00-990-802 (Sheet 4 of 4)

EFFECTIVITY  
LOM ALL

**33-49-00**

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EMERGENCY LIGHTS - ADJUSTMENT/TEST

**1. General**

- A. This procedure contains scheduled maintenance task data.
- B. This procedure has these tasks:
  - (1) Emergency Lights - Operational Test
  - (2) Emergency Lights - Operational Check.

**TASK 33-51-00-710-801**

**2. Emergency Lights - Operational Test**

(Figure 501, Figure 502 or Figure 503, Figure 504, Figure 505, and Figure 506)

NOTE: This procedure is a scheduled maintenance task.

**A. General**

- (1) This test makes sure the emergency lights come on.

**B. Location Zones**

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

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

**C. Procedure**

**LOM 427-434, 437-447, 450-999**

SUBTASK 33-51-00-860-025

- (1) At the aft attendant panel, make sure that the BSI LED lighting system is turned off.

**LOM ALL**

SUBTASK 33-51-00-860-026

- (2) At the overhead panel, P5, set the DOME switch to the OFF mode.

SUBTASK 33-51-00-710-001

- (3) Do a check of the emergency lights:

- (a) At the overhead panel, P5, or the aft attendant panel, set the emergency light switch to the ON mode.

NOTE: The power supply operates the emergency lights. Use the lights for a minimum time to do the test.

NOTE: If the emergency light switch at the aft attendant panel is set to the ON mode, the emergency lights will turn on even if the emergency light switch at the P5 is set to the OFF mode. If the P5 emergency light switch is used for the operational test, then the emergency light switch at the aft attendant panel should be set to the NORMAL mode.

- 1) Make sure that the emergency dome light comes on (Figure 501).
- 2) Make sure that these emergency lights in the passenger compartment come on:
  - Aisle area light (Figure 502 or Figure 503)
  - Overdoor exit sign (Figure 504)
  - Overwing hatch handle lights (Figure 504)
  - Exit locator sign (Figure 504)
  - Exit indicator sign (Figure 504)

EFFECTIVITY  
**LOM ALL**

**33-51-00**



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- If applicable, floor proximity light (Figure 505)
  - If applicable, flood light (Figure 505).
- 3) Make sure that the exterior lights come on (Figure 506).
- (b) Set the emergency light switch to the OFF mode at the overhead panel, P5, or NORMAL mode at the aft attendant panel.
- 1) Make sure that the emergency dome light goes off (Figure 501).
  - 2) Make sure that these emergency lights in the passenger compartment go off:
    - Aisle area light (Figure 502 or Figure 503)
    - Overdoor exit sign (Figure 504)
    - Overwing hatch handle lights (Figure 504)
    - Exit locator sign (Figure 504)
    - Exit indicator sign (Figure 504)
    - If applicable, floor proximity light (Figure 505)
    - If applicable, flood light (Figure 505).
  - 3) Make sure that the exterior lights go off (Figure 506).

SUBTASK 33-51-00-860-027

- (4) At the overhead panel, P5, set the DOME switch to the DIM or BRIGHT mode as necessary.

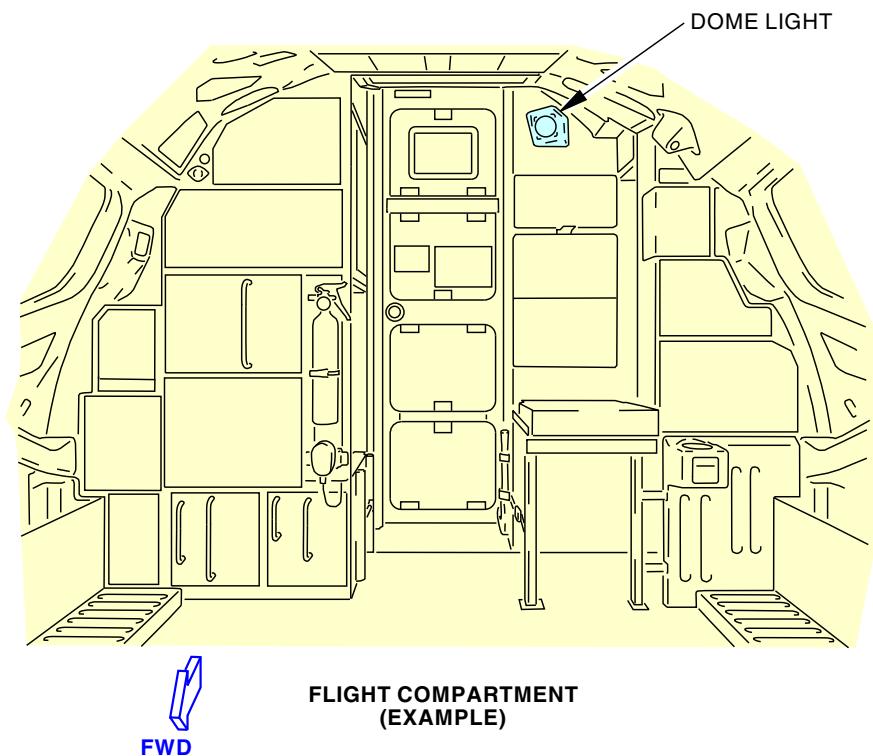
———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-51-00**



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3044225 S0000810166\_V1

**Emergency lights - Dome Light**  
**Figure 501/33-51-00-990-801**

EFFECTIVITY  
LOM ALL

**33-51-00**

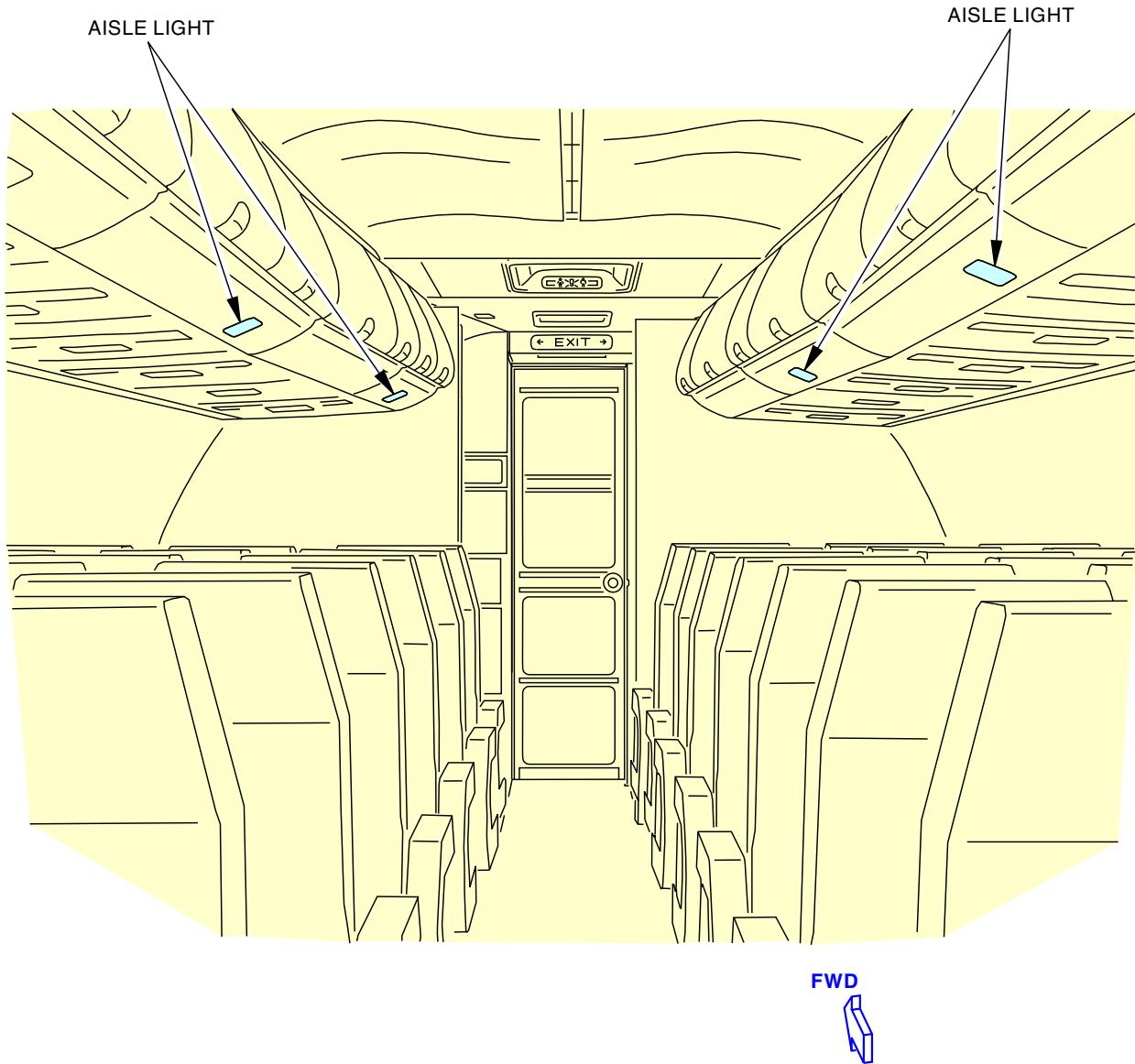
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3044352 S0000810198\_V1

**Emergency Lights - Aisle Light**  
**Figure 502/33-51-00-990-802**

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

**33-51-00**

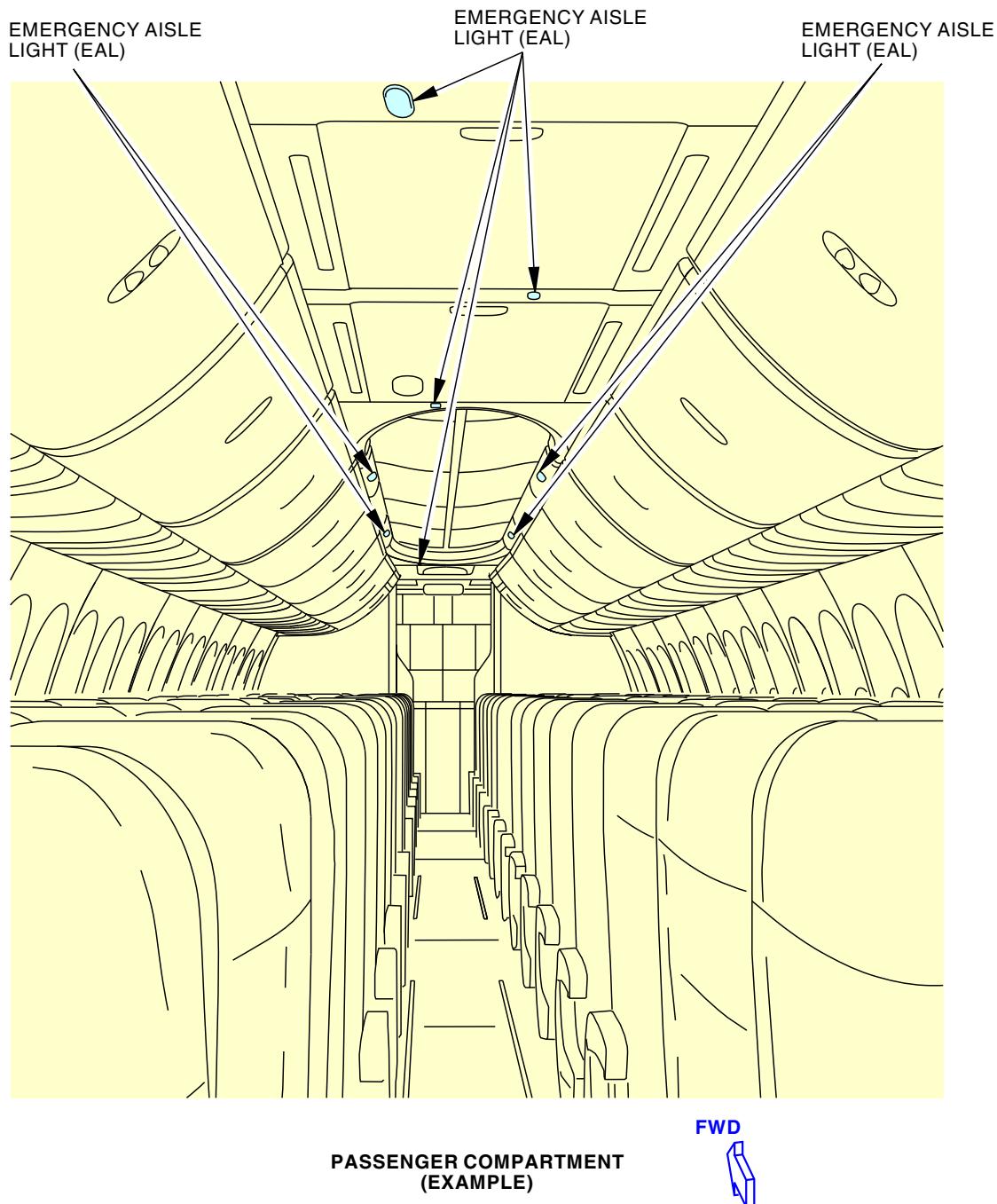
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3044355 S0000810200\_V1

**Emergency Lights - Emergency Aisle Light (EAL)**  
Figure 503/33-51-00-990-803

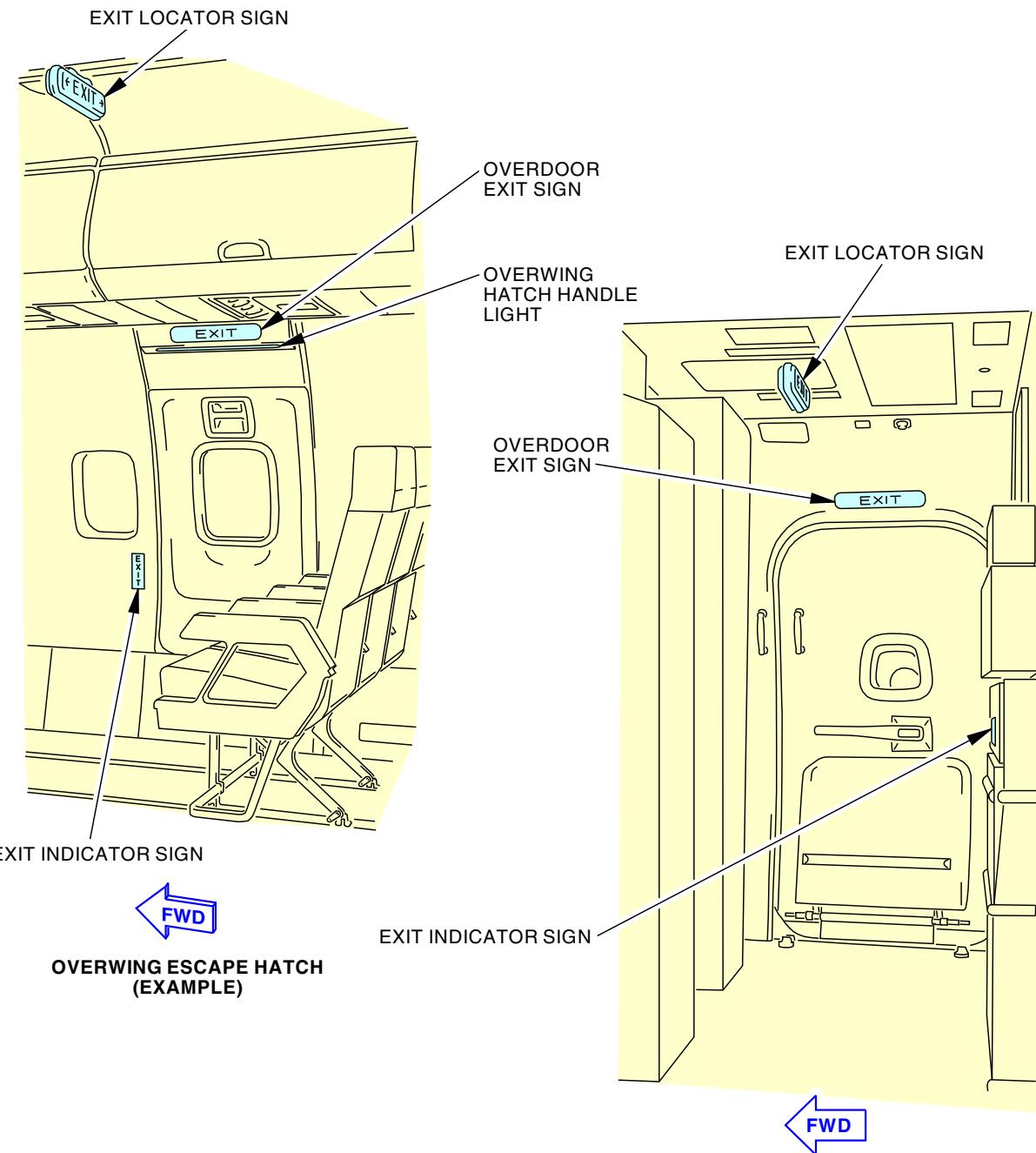
EFFECTIVITY  
LOM 427-434, 437-447, 450-999

**33-51-00**

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(VIEW THROUGH THE AFT PASSENGER DOOR)  
(EXAMPLE)

3044351 S0000810197\_V2

**Emergency Lights - Exit Sign**  
Figure 504/33-51-00-990-804

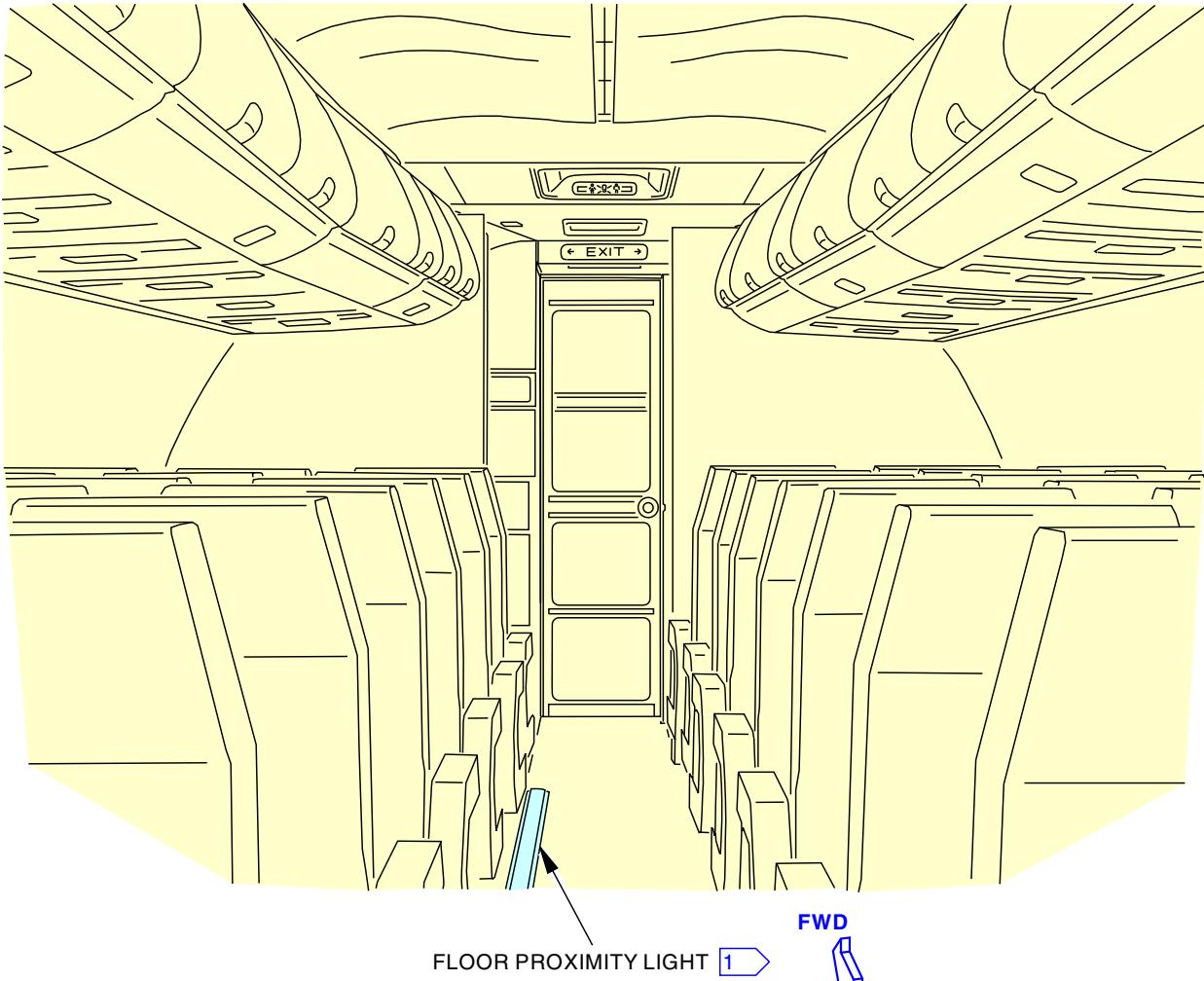
EFFECTIVITY  
LOM ALL

**33-51-00**

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PASSENGER COMPARTMENT  
(EXAMPLE)

1 INSTALLED ON LEFT OR RIGHT SIDE OF AISLE

3044356 S0000810203\_V1

Emergency Lights - Floor Proximity Light  
Figure 505/33-51-00-990-805 (Sheet 1 of 3)

EFFECTIVITY  
LOM ALL

**33-51-00**

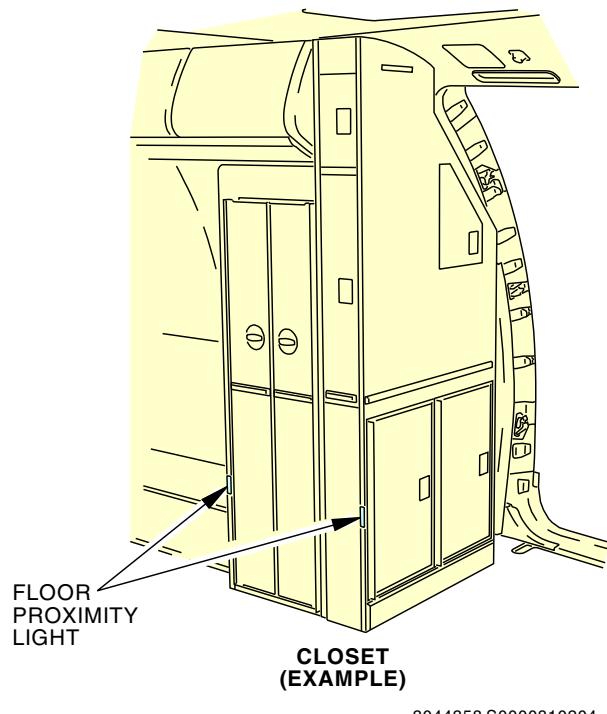
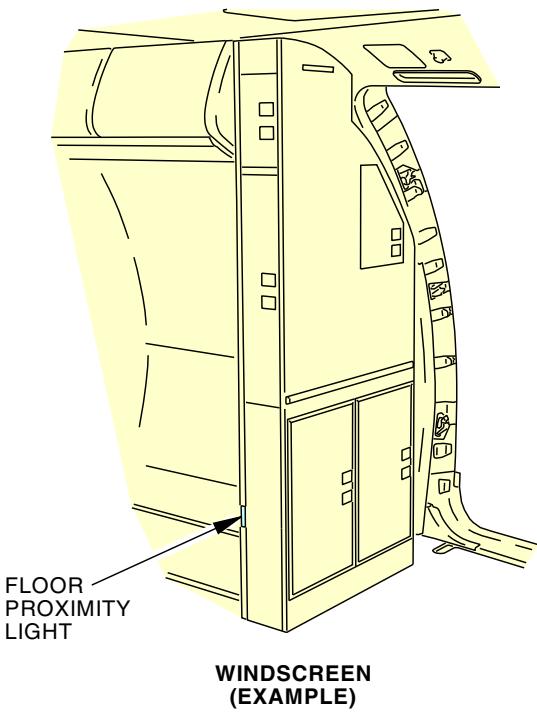
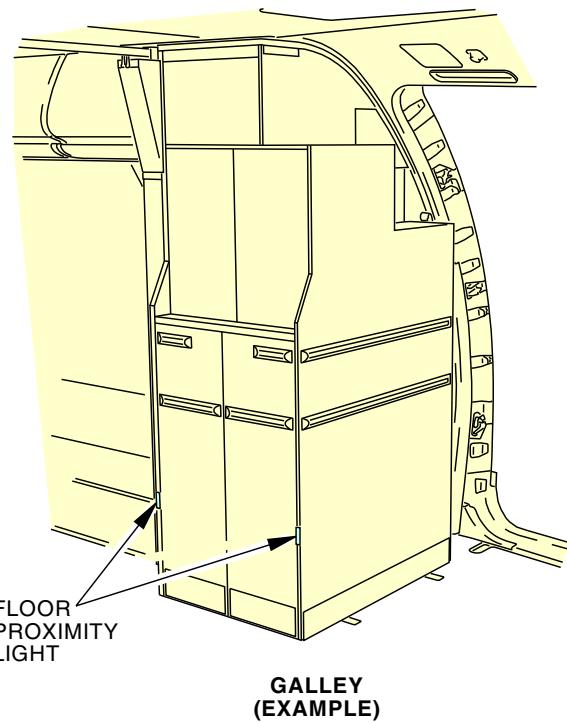
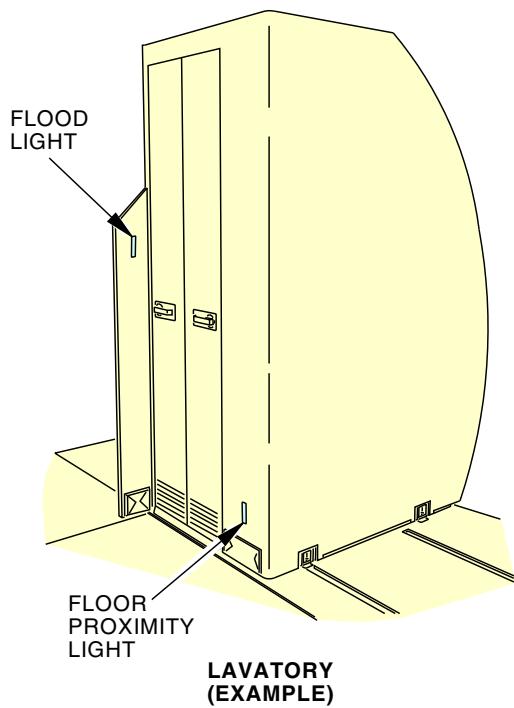
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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3044358 S0000810204\_V1

**Emergency Lights - Floor Proximity Light**  
Figure 505/33-51-00-990-805 (Sheet 2 of 3)

EFFECTIVITY  
LOM ALL

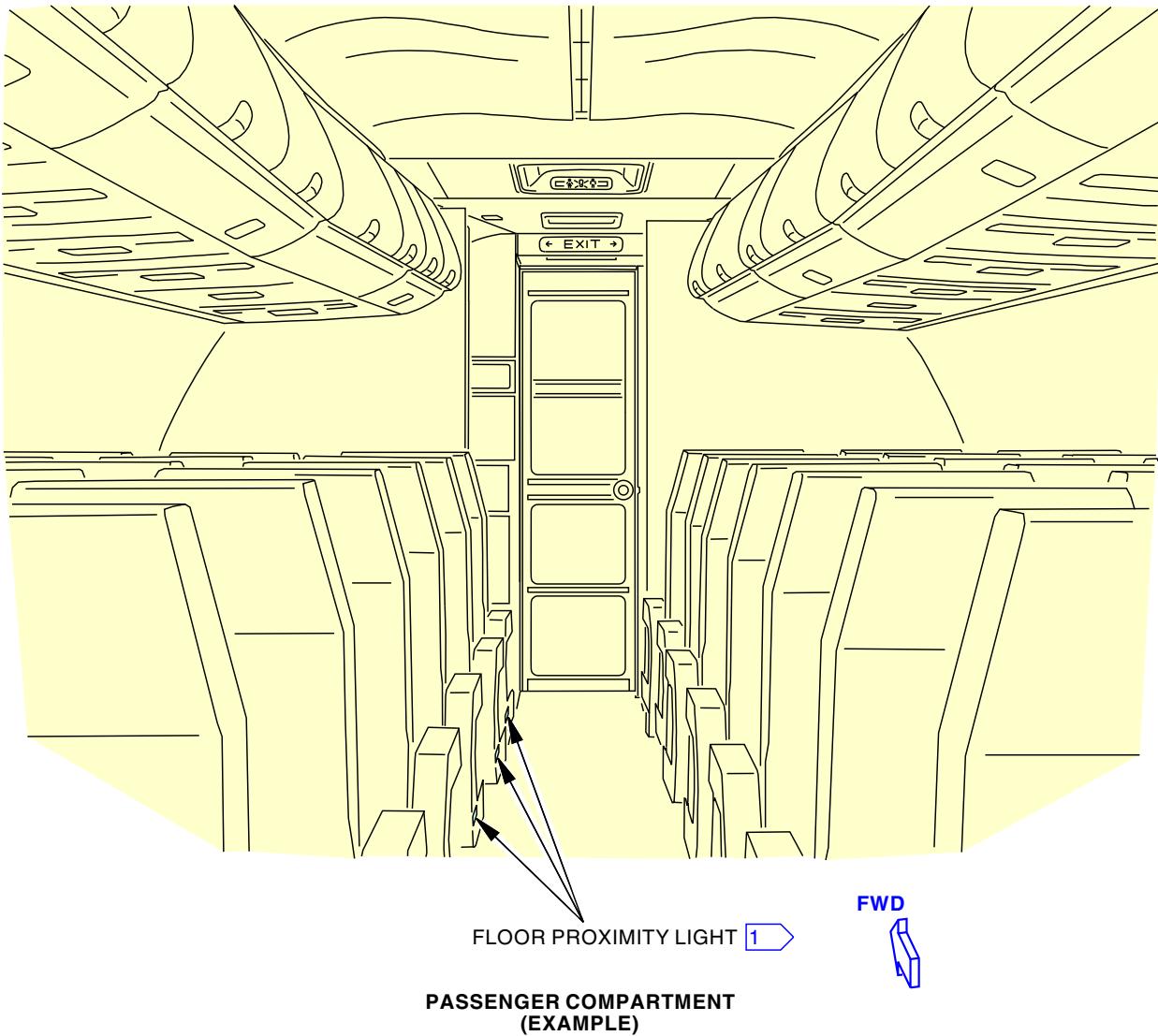
**33-51-00**

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details



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1 INSTALLED ON LEFT OR RIGHT SIDE OF AISLE

3044360 S0000810202\_V1

**Emergency Lights - Floor Proximity Light**  
**Figure 505/33-51-00-990-805 (Sheet 3 of 3)**

EFFECTIVITY  
LOM 461-463, 466-999

**33-51-00**

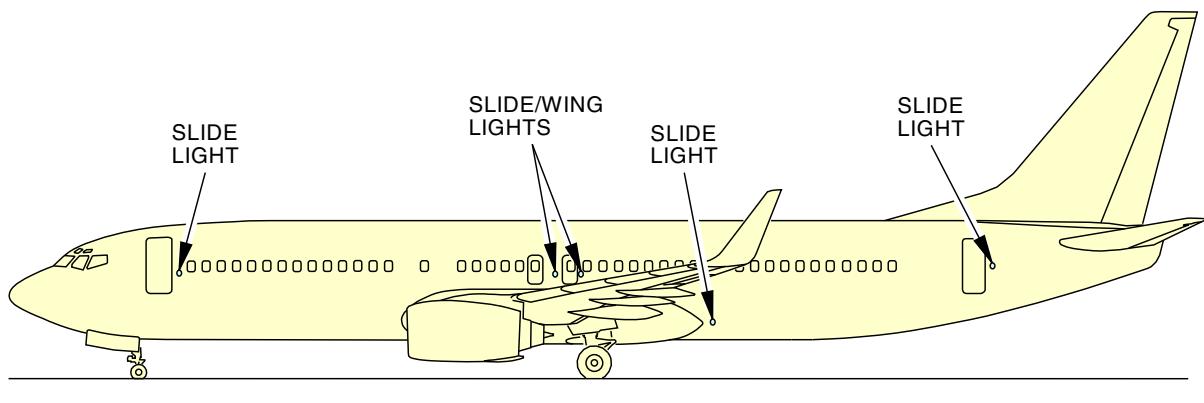
D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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(EXAMPLE)

3044363 S0000810214\_V1

**Emergency Lights - Slide Light**  
Figure 506/33-51-00-990-806

EFFECTIVITY  
LOM ALL

**33-51-00**

D633A101-LOM

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**TASK 33-51-00-720-801**

**3. Emergency Lights - Operational Check**

(Figure 501, Figure 502 or Figure 503, Figure 504, Figure 505, and Figure 506)

NOTE: This procedure is a scheduled maintenance task.

**A. General**

- (1) This check makes sure that all components in the emergency lighting system operate.

**B. References**

Reference	Title
33-51-06-610-802	Power Supply - Charge the Battery Packs (P/B 201)

**C. Location Zones**

Zone	Area
200	Upper Half of Fuselage

**D. Emergency Lights Operational Check**

SUBTASK 33-51-00-610-001

- (1) Make sure that the battery packs are fully charged before you do this task (TASK 33-51-06-610-802).

**LOM 427-434, 437-447, 450-999**

SUBTASK 33-51-00-860-028

- (2) At the aft attendant panel, make sure that the BSI LED lighting system is turned off.

**LOM ALL**

SUBTASK 33-51-00-860-029

- (3) At the P5 overhead panel, set the DOME switch to the OFF mode.

SUBTASK 33-51-00-710-003

- (4) Do a check of the emergency lighting system with the pilots emergency light switch.
  - (a) At the P5 overhead panel, set the pilots emergency light switch to the ON mode.

NOTE: If the emergency light switch at the aft attendant panel is set to the ON mode, the emergency lights will turn on even if the emergency light switch at the P5 is set to the OFF mode. If the P5 emergency light switch is used for the operational check, then the emergency light switch at the aft attendant panel should be set to the NORMAL mode.

- 1) Make sure that the emergency dome light, L00273, comes on (Figure 501).

NOTE: The location of the emergency dome light is in the flight deck.

- 2) Make sure that the exterior lights come on (Figure 506).

NOTE: This check includes all slide and overwing lights.

- 3) Make sure that these lights in the passenger compartment come on.

- Aisle area light (Figure 502 or Figure 503)
- Overdoor exit sign (Figure 504)
- Overwing hatch handle lights (Figure 504)
- Exit locator sign (Figure 504)
- Exit indicator light (Figure 504)
- If applicable, floor proximity light (Figure 505)

EFFECTIVITY  
**LOM ALL**

**33-51-00**



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- If applicable, flood light (Figure 505).
- (b) Set the switch to the OFF mode.
  - 1) Make sure that the emergency dome light, L00273, goes off (Figure 501).  
NOTE: The location of the emergency dome light is in the flight deck.
  - 2) Make sure that the NOT ARMED indication shows on the P5 panel.
  - 3) Make sure that these lights in the passenger compartment go off:
    - Aisle area light (Figure 502 or Figure 503)
    - Overdoor exit sign (Figure 504)
    - Overwing hatch handle lights (Figure 504)
    - Exit locator sign (Figure 504)
    - Exit indicator light (Figure 504)
    - If applicable, floor proximity light (Figure 505)
    - If applicable, flood light (Figure 505).
  - 4) Make sure that the exterior lights go off (Figure 506).
- (c) Set the switch to the ARMED mode.
  - 1) Make sure that the light stays off.
  - 2) Make sure that no lighting indication shows on the P5 panel.
- (d) 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, 422-434, 437-447, 450-999**

A      10      C01357      PASS CABIN LIGHTING EMER CHGR L AFT

**LOM ALL**

A      11      C00250      PASS CABIN LIGHTING EMER CHGR FWD

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

B      10      C01358      PASS CABIN LIGHTING EMER CHGR R AFT

**LOM ALL**

- 1) Make sure that the emergency dome light, L00273, comes on (Figure 501).  
NOTE: The location of the emergency dome light is in the flight deck.
- 2) Make sure that these emergency lights in the passenger compartment come on:
  - Aisle area light (Figure 502 or Figure 503)
  - Overdoor exit sign (Figure 504)
  - Overwing hatch handle lights (Figure 504)
  - Exit locator sign (Figure 504)
  - Exit indicator light (Figure 504)
  - If applicable, floor proximity light (Figure 505)
  - If applicable, flood light (Figure 505).
- 3) Make sure that the exterior emergency lights come on (Figure 506).

EFFECTIVITY  
**LOM ALL**

**33-51-00**



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

**CAPT Electrical System Panel, P18-3**

Row   Col   Number   Name

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

A      10      C01357      PASS CABIN LIGHTING EMER CHGR LAFT

**LOM ALL**

A      11      C00250      PASS CABIN LIGHTING EMER CHGR FWD

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

B      10      C01358      PASS CABIN LIGHTING EMER CHGR R AFT

**LOM ALL**

- 1) Make sure that the emergency dome light, L00273, goes off (Figure 501).

NOTE: The location of the emergency dome light is in the flight deck.

- 2) Make sure that these emergency lights on the passenger compartment go off:

- Aisle area light (Figure 502 or Figure 503)
- Overdoor exit sign (Figure 504)
- Overwing hatch handle lights (Figure 504)
- Exit locator sign (Figure 504)
- Exit indicator light (Figure 504)
- If applicable, floor proximity light (Figure 505)
- If applicable, flood light (Figure 505).

- 3) Make sure that the exterior emergency lights go off (Figure 506).

- (f) Set the switch to the OFF mode.

SUBTASK 33-51-00-860-030

- (5) At the P5 overhead panel, set the DOME switch to the DIM or BRIGHT mode as necessary.

**LOM 427-434, 437-447, 450-999**

SUBTASK 33-51-00-860-031

- (6) At the aft attendant panel, make sure that the BSI LED lighting system is turned off.

**LOM ALL**

SUBTASK 33-51-00-710-004

- (7) Do a check of the emergency lighting system with the attendant emergency light switch.

- (a) At the attendant panel, set the attendant emergency light switch to the ON mode.

- 1) Make sure that these lights in the passenger compartment come on:
- Aisle area light (Figure 502 or Figure 503)
  - Overdoor exit sign (Figure 504)
  - Overwing hatch handle lights (Figure 504)
  - Exit locator sign (Figure 504)
  - Exit indicator light (Figure 504)
  - If applicable, floor proximity light (Figure 505)
  - If applicable, flood light (Figure 505).

EFFECTIVITY  
**LOM ALL**

**33-51-00**



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

- 2) Make sure that the exterior lights come on (Figure 506).  
NOTE: This check includes all slide and overwing lights.
  - 3) Make sure that the emergency dome light, L00273, comes on (Figure 501).  
NOTE: The location of the emergency dome light is in the flight deck.
- (b) Set the switch to the NORMAL mode.
- 1) Make sure that these lights in the passenger compartment go off:
    - Aisle area light (Figure 502 or Figure 503)
    - Overdoor exit sign (Figure 504)
    - Overwing hatch handle lights (Figure 504)
    - Exit locator sign (Figure 504)
    - Exit indicator light (Figure 504)
    - If applicable, floor proximity light (Figure 505)
    - If applicable, flood light (Figure 505).
  - 2) Make sure that the exterior lights go off (Figure 506).
  - 3) Make sure that the emergency dome light, L00273, goes off (Figure 501).  
NOTE: The location of the emergency dome light is in the flight deck.

SUBTASK 33-51-00-610-003

- (8) Do this task: Power Supply - Charge the Battery Packs, TASK 33-51-06-610-802.

———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-51-00**



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EXIT SIGNS - MAINTENANCE PRACTICES

**1. General**

- A. This procedure has these tasks:
- (1) Exit Sign Lamp Replacement
  - (2) Exit Sign Light Assembly Replacement

**TASK 33-51-01-960-801**

**2. Exit Sign Lamp Replacement**

(Figure 201)

**A. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
2	Lamp	33-51-01-50-255	LOM ALL
		33-51-01-50-260	LOM ALL
		33-51-01-50A-230	LOM ALL
		33-51-01-50B-155	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420
		33-51-01-50C-225	LOM 457, 465
		33-51-01-50D-200	LOM ALL
		33-51-01-50D-205	LOM ALL
		33-51-01-50E-150	LOM 422-426
		33-51-01-50K-200	LOM 422-434, 437-447, 450-456, 458-464, 466-999

**B. Location Zones**

Zone	Area
200	Upper Half of Fuselage

**C. Prepare for the Replacement**

SUBTASK 33-51-01-960-004

- (1) Make sure that the emergency exit light switch, on P5 overhead panel, is set to the OFF position.

SUBTASK 33-51-01-960-005

- (2) Make sure that the emergency exit light switch, on the applicable attendant panel, is set to the NORMAL mode.

**D. Exit Sign Lamp Replacement**

SUBTASK 33-51-01-960-001

 <b>WARNING</b>	DO NOT TOUCH THE SOCKET OR THE METAL END OF THE LAMP. WHEN ELECTRICAL POWER IS SUPPLIED TO THE LAMP, ELECTRICAL SHOCK CAN OCCUR. THIS CAN CAUSE INJURIES TO PERSONNEL.
---	--

- (1) Do these steps to replace the applicable lamp:

- (a) Remove the lens [1], lens [8], or lens [10].

NOTE: If an exit sign has a lens on two sides, remove only one lens.

EFFECTIVITY  
LOM ALL

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**AIRCRAFT MAINTENANCE MANUAL**

- 1) When it is possible, pull off the lens [1].
  - 2) When the EXIT sign is installed above the emergency exit door, use a rod to push in at the release hole, then pull off the lens [8] or lens [10].
  - 3) When a handle light lamp [5] needs to be replaced from the EXIT sign above the emergency exit door, loosen the screw [3] and washer [4], then remove the cover [7].
  - 4) When the EXIT sign is installed adjacent to a door or near the floor, use a No. 4 allen wrench to loosen the screw [11] and pull off the lens [10].
- (b) If the push button stopper is broken, do these steps to replace it:
- 1) To remove the stopper, do these steps:
    - a) Do this task to remove the light assembly: Exit Sign Light Assembly Replacement, TASK 33-51-01-960-802.
    - b) Remove the lamp.
    - c) Remove the pop rivets or the screws and nuts that hold the stopper in its position.
    - d) Remove and discard the broken stopper.
  - 2) To install the new stopper, do these steps:
    - a) Put the new stopper in its position.
    - b) Install the new stopper with two pop rivets or two screws and two nuts.
    - c) If screws and nuts are used, tighten the screws to  $1.46 \pm 0.13$  in-lb ( $0.16 \pm 0.02$  N·m).
    - d) Do this task to install the light assembly: Exit Sign Light Assembly Replacement, TASK 33-51-01-960-802.
- (c) Replace the lamp [2], lamp [5], lamp [6], or lamp [9].

**SUBTASK 33-51-01-710-001**

- (2) Do a test of the new lamp.

**NOTE:** The power supply operates the emergency lights. Use the lights for a minimum time to do the test.

- (a) At the applicable attendant panel, set the emergency light switch to the ON mode.
  - 1) Make sure that the new lamp comes on.
- (b) Set the switch to the NORMAL mode.
  - 1) Make sure that all emergency lights go off.

**SUBTASK 33-51-01-410-006**

- (3) If a cover on an overwing exit sign was removed, install it.

**SUBTASK 33-51-01-410-001**

- (4) Install the lens [1], lens [8], or lens [10].

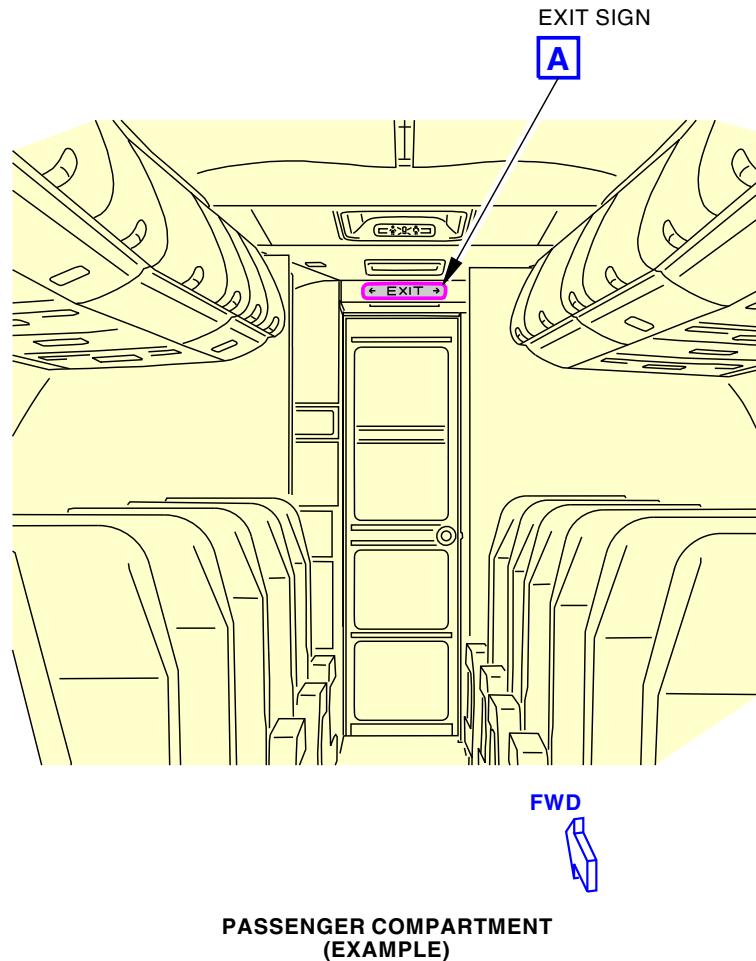
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EFFECTIVITY  
LOM ALL

**33-51-01**



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AIRCRAFT MAINTENANCE MANUAL



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**Exit Sign - Lamp Replacement**  
Figure 201/33-51-01-990-801 (Sheet 1 of 6)

EFFECTIVITY  
LOM ALL

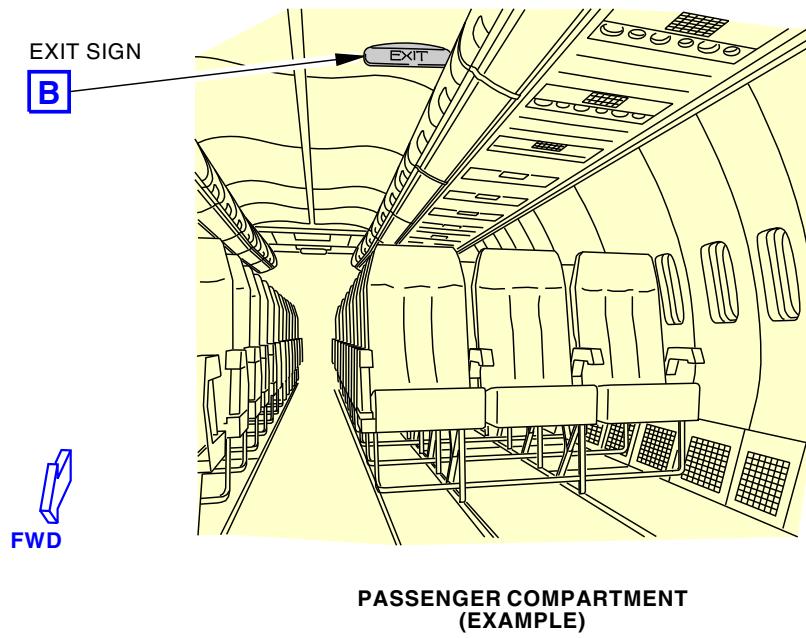
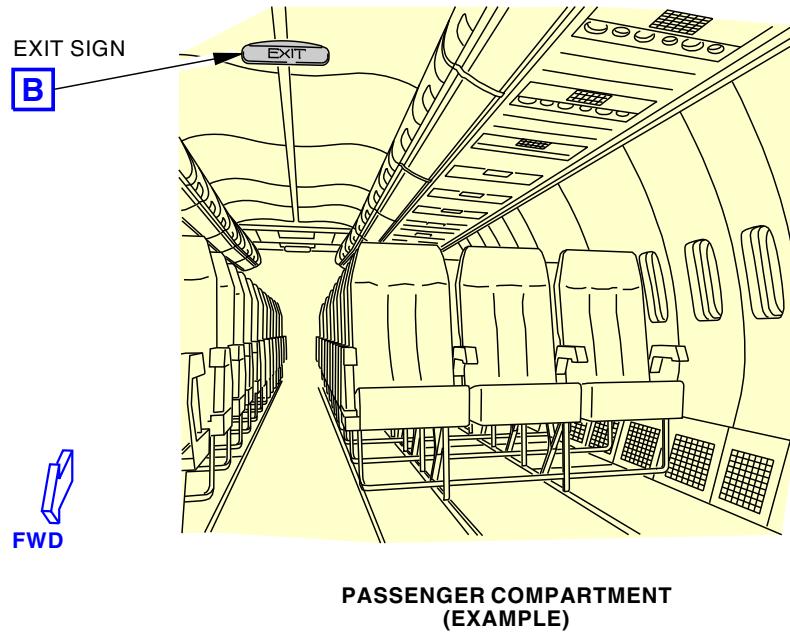
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1739014 S0000312054\_V2

**Exit Sign - Lamp Replacement**  
Figure 201/33-51-01-990-801 (Sheet 2 of 6)

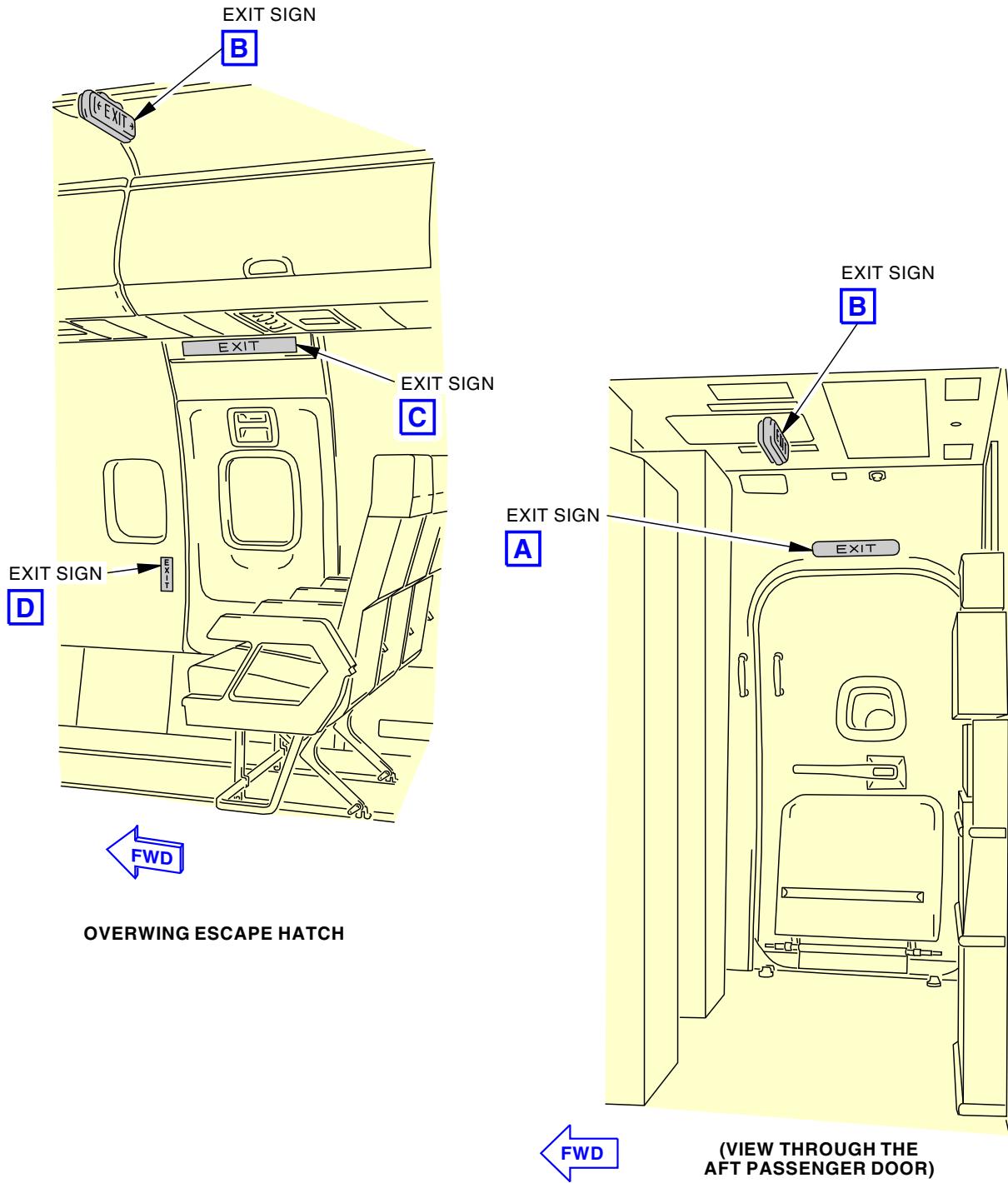
EFFECTIVITY  
LOM ALL

**33-51-01**

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**Exit Sign - Lamp Replacement**  
**Figure 201/33-51-01-990-801 (Sheet 3 of 6)**

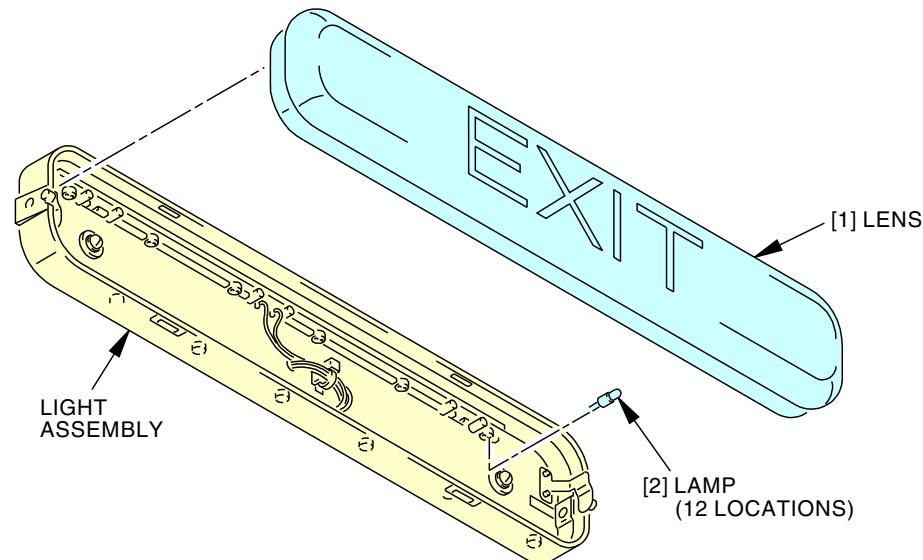
EFFECTIVITY  
**LOM ALL**

**33-51-01**

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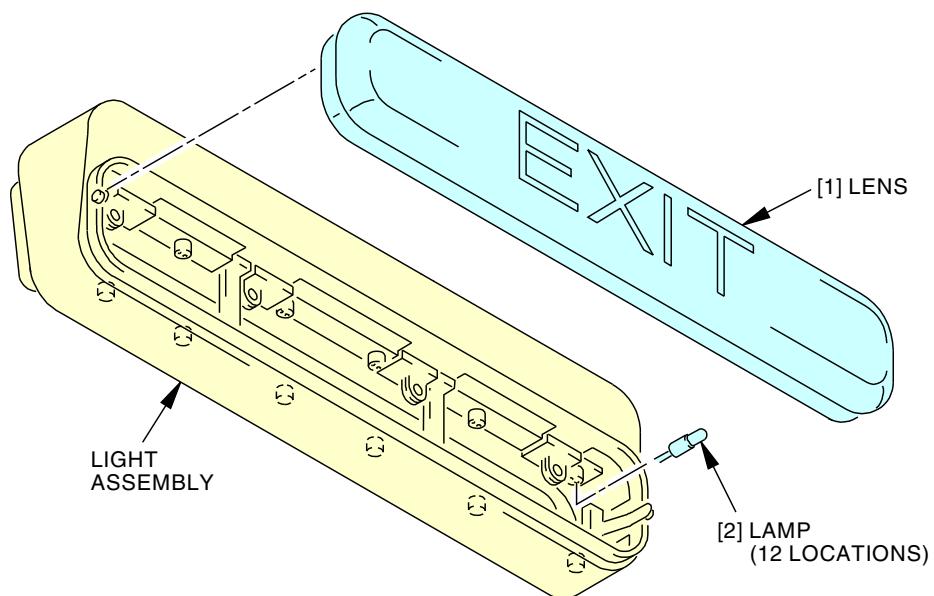


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EXIT SIGN  
(EXAMPLE)

A



EXIT SIGN  
(EXAMPLE)

B

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**Exit Sign - Lamp Replacement**  
Figure 201/33-51-01-990-801 (Sheet 4 of 6)

EFFECTIVITY  
LOM ALL

**33-51-01**

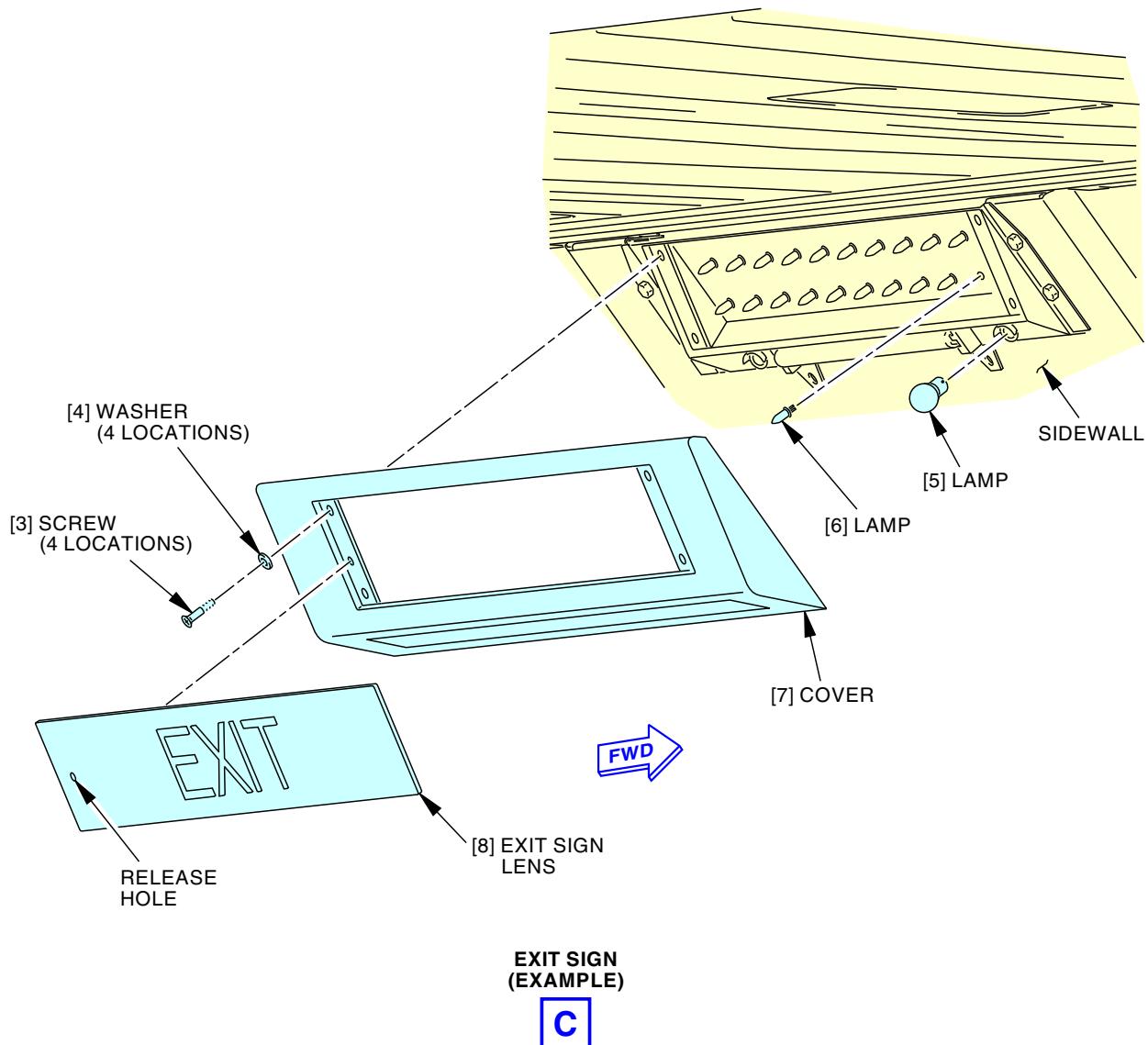
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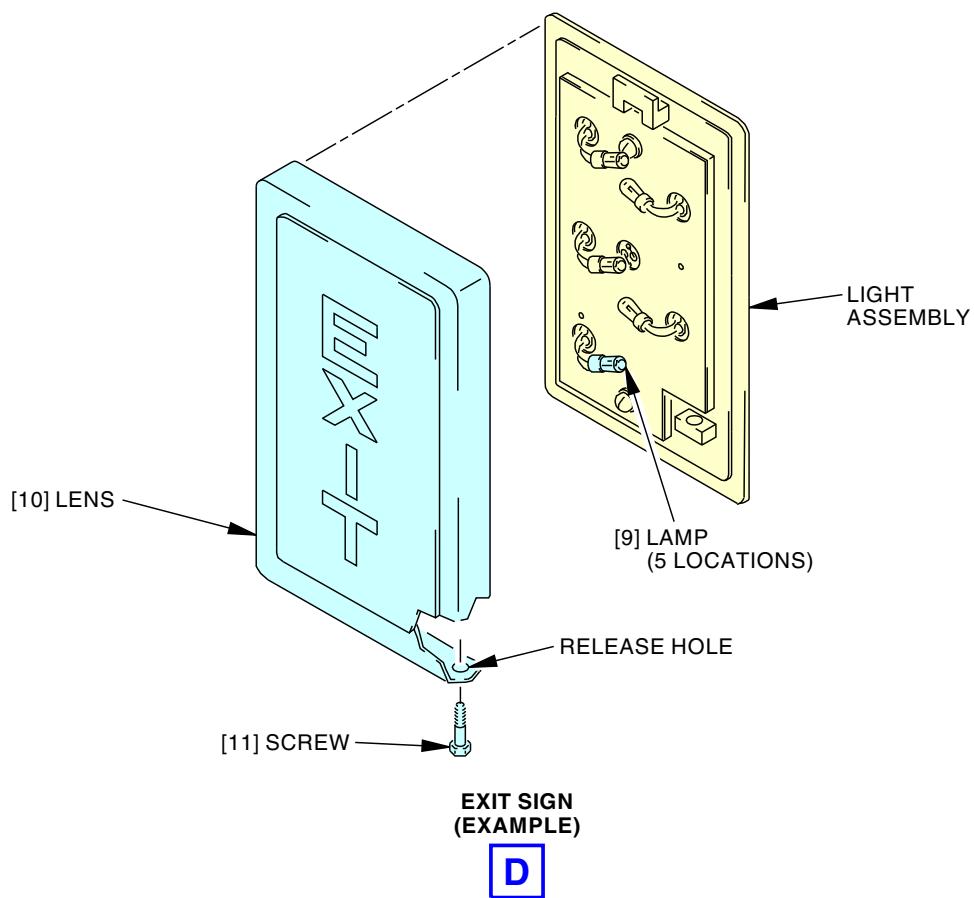
Exit Sign - Lamp Replacement  
Figure 201/33-51-01-990-801 (Sheet 5 of 6)

EFFECTIVITY  
LOM ALL

**33-51-01**

D633A101-LOM

**BOEING**  
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AIRCRAFT MAINTENANCE MANUAL



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**Exit Sign - Lamp Replacement**  
Figure 201/33-51-01-990-801 (Sheet 6 of 6)

EFFECTIVITY  
LOM ALL

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**TASK 33-51-01-960-802**

**3. Exit Sign Light Assembly Replacement**

(Figure 202)

**A. References**

<b>Reference</b>	<b>Title</b>
33-51-00-710-801	Emergency Lights - Operational Test (P/B 501)
33-51-00-720-801	Emergency Lights - Operational Check (P/B 501)
WDM 23-42-11	Wiring Diagram Manual
WDM 33-21-11	Wiring Diagram Manual
WDM 33-21-12	Wiring Diagram Manual
WDM 33-27-11	Wiring Diagram Manual
WDM 33-51-12 thru 33-51-21	Wiring Diagram Manual
WDM 33-51-22	Wiring Diagram Manual

**B. Location Zones**

<b>Zone</b>	<b>Area</b>
118	Electrical and Electronics Compartment - Right
200	Upper Half of Fuselage

**C. Access Panels**

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

**D. Exit Sign Light Assembly Replacement**

**LOM ALL; AIRPLANES WITH THE EXIT SIGN INCLUDES A MASTER CALL LIGHT MODULE**

SUBTASK 33-51-01-410-002

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

**CAPT Electrical System Panel, P18-3**

**Row Col Number Name**

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

**A 8 C01403 PASSENGER CABIN PASS CALL LEFT**

**LOM ALL; AIRPLANES WITH THE EXIT SIGN INCLUDES A MASTER CALL LIGHT MODULE**

**A 9 C00073 PASSENGER CABIN CREW CALL**

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

**A 10 C01357 PASS CABIN LIGHTING EMER CHGR L AFT**

**LOM ALL; AIRPLANES WITH THE EXIT SIGN INCLUDES A MASTER CALL LIGHT MODULE**

**A 11 C00250 PASS CABIN LIGHTING EMER CHGR FWD**

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

**B 8 C01404 PASSENGER CABIN PASS CALL RIGHT**

**B 10 C01358 PASS CABIN LIGHTING EMER CHGR R AFT**

**LOM ALL**

SUBTASK 33-51-01-040-001

- (2) Make sure that at the overhead panel, P5, the pilots emergency light switch is in the OFF mode.

EFFECTIVITY  
**LOM ALL**

**33-51-01**



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**AIRCRAFT MAINTENANCE MANUAL**

SUBTASK 33-51-01-040-002

- (3) Make sure that at the applicable attendant panel, the emergency light switch is in the NORMAL mode.

**LOM ALL; AIRPLANES WITH THE EXIT SIGN INSTALLED ABOVE THE EMERGENCY EXIT DOOR**

SUBTASK 33-51-01-010-002

- (4) To get access to the P92 panel, open this access panel:

**Number      Name/Location**

117A      Electronic Equipment Access Door

SUBTASK 33-51-01-410-008



**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.

- (5) Open these circuit breakers:

**Power Distribution Panel Number 2, P92**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
E	11	C00594	WINDOW LIGHT RIGHT
E	12	C00776	WINDOW LIGHT LEFT

**LOM ALL**

SUBTASK 33-51-01-010-001

- (6) Get access to the screws and washers that hold the applicable light assembly in its position.

**LOM ALL; AIRPLANES WITH THE EXIT SIGN INSTALLED ABOVE A DOOR**

- (a) Pull off the lens [1].

**LOM ALL; AIRPLANES WITH THE EXIT SIGN ATTACHED TO A CEILING PANEL**

- (b) Open an adjacent access or ceiling panel.

**LOM ALL; AIRPLANES WITH THE EXIT SIGN INSTALLED ABOVE THE EMERGENCY EXIT DOOR**

- (c) Do these steps:

- 1) Use a rod to push in at the release hole, then pull off the lens [8].
- 2) Loosen the screws [3] and washers [4], then remove the cover [7].

**LOM ALL; AIRPLANES WITH THE EXIT SIGN ADJACENT TO AN EXIT AND NEAR THE FLOOR**

- (d) Use a No. 4 allen wrench to loosen the screw [36] at a release hole, then pull off the lens [10].

EFFECTIVITY  
LOM ALL

**33-51-01**



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AIRCRAFT MAINTENANCE MANUAL

LOM ALL

SUBTASK 33-51-01-960-002



**WARNING**

DO NOT TOUCH THE SOCKET OR THE METAL END OF THE LAMP. WHEN ELECTRICAL POWER IS SUPPLIED TO THE LAMP, ELECTRICAL SHOCK CAN OCCUR. THIS CAN CAUSE INJURIES TO PERSONNEL.

- (7) Do these steps to replace the applicable light assembly (WDM 23-42-11, WDM 33-21-11 , WDM 33-21-12, WDM 33-27-11, WDM 33-51-12 thru 33-51-21, WDM 33-51-22):
- Remove the screws [21], screws [27], screws [31], or screws [35] and washers [22], washers [26], or washers [34].
  - Disconnect the electrical connectors [23], electrical connectors [28], or electrical connectors [32].
  - Replace the light assembly [24], light assembly [25], light assembly [29], or light assembly [33].
    - Make sure that lamps are installed in the new light assembly.
  - Connect the electrical connectors [23], electrical connectors [28], or electrical connectors [32] to the new light assembly.
  - Install the washers [22], washers [26], or washers [34], and screws [21], screws [27], screws [31], or screws [35].

**LOM ALL; AIRPLANES WITH THE EXIT SIGN INSTALLED ABOVE THE EMERGENCY EXIT DOOR**

SUBTASK 33-51-01-410-009



**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.

- (8) Remove the safety tag and close the applicable circuit breaker:

**Power Distribution Panel Number 2, P92**

<b>Row</b>	<b>Col</b>	<b>Number</b>	<b>Name</b>
E	11	C00594	WINDOW LIGHT RIGHT
E	12	C00776	WINDOW LIGHT LEFT

EFFECTIVITY  
**LOM ALL**

**33-51-01**



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**LOM ALL; AIRPLANES WITH THE EXIT SIGN INCLUDES A MASTER CALL LIGHT MODULE**

SUBTASK 33-51-01-410-013

- (9) Close this access panel:

Number    Name/Location

117A        Electronic Equipment Access Door

SUBTASK 33-51-01-410-005

- (10) Remove the safety tag and close the applicable circuit breaker:

**CAPT Electrical System Panel, P18-3**

Row    Col    Number    Name

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

    A        8     C01403    PASSENGER CABIN PASS CALL LEFT

**LOM ALL; AIRPLANES WITH THE EXIT SIGN INCLUDES A MASTER CALL LIGHT MODULE**

    A        9     C00073    PASSENGER CABIN CREW CALL

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

    A        10    C01357    PASS CABIN LIGHTING EMER CHGR L AFT

**LOM ALL; AIRPLANES WITH THE EXIT SIGN INCLUDES A MASTER CALL LIGHT MODULE**

    A        11    C00250    PASS CABIN LIGHTING EMER CHGR FWD

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

    B        8     C01404    PASSENGER CABIN PASS CALL RIGHT

    B        10    C01358    PASS CABIN LIGHTING EMER CHGR R AFT

**LOM ALL**

SUBTASK 33-51-01-710-002

- (11) Do a test of the new light assembly.

NOTE: The power supply operates the emergency lights. Use the lights for a minimum time to do the test.

- (a) At the applicable attendant panel, set the emergency light switch to the ON mode.

    1) Make sure that the new exit sign comes on.

- (b) Set the switch to the NORMAL mode.

    1) Make sure that all emergency lights go off.

SUBTASK 33-51-01-410-003

- (12) If an access or ceiling panel was opened, close it.

SUBTASK 33-51-01-410-007

- (13) If a cover [7] on an overwing exit sign was removed, install it.

SUBTASK 33-51-01-410-004

- (14) If a lens [1], lens [8], or lens [10] was removed, install it.

SUBTASK 33-51-01-710-003

- (15) Do this test: Emergency Lights - Operational Check, TASK 33-51-00-720-801.

SUBTASK 33-51-01-720-001

- (16) Do this test: Emergency Lights - Operational Test, TASK 33-51-00-710-801.

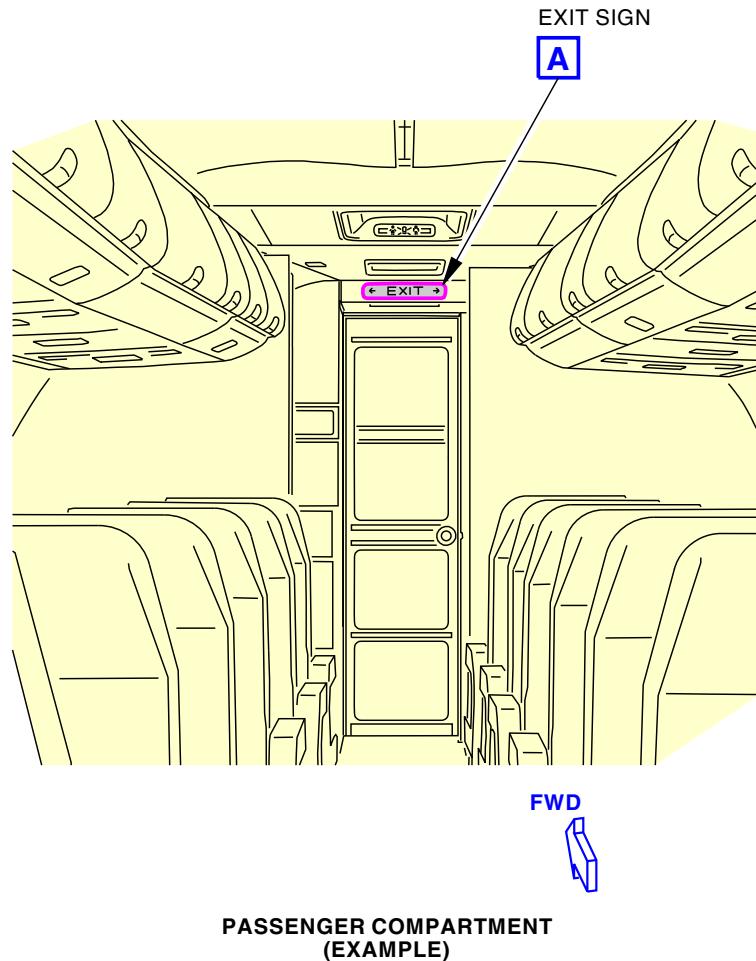
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EFFECTIVITY  
LOM ALL

**33-51-01**



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**Exit Sign - Light Assembly Replacement**  
Figure 202/33-51-01-990-802 (Sheet 1 of 6)

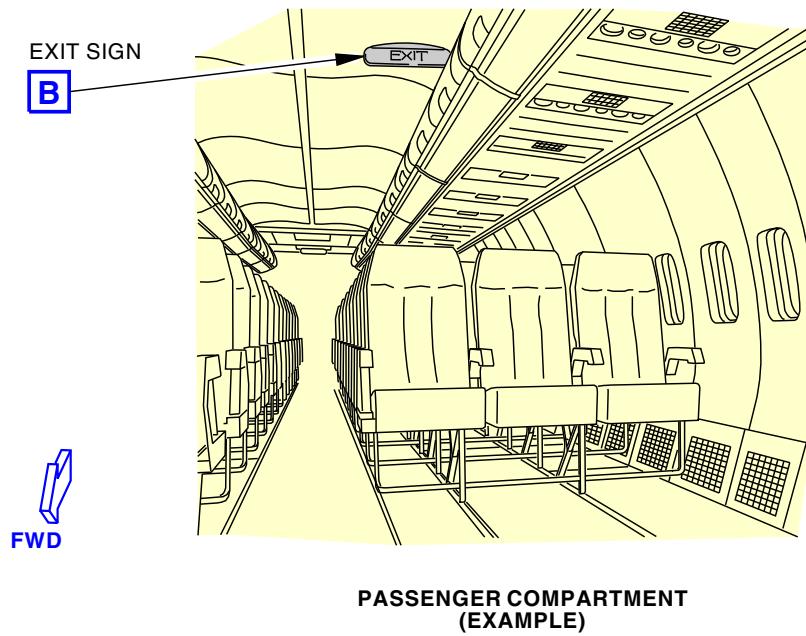
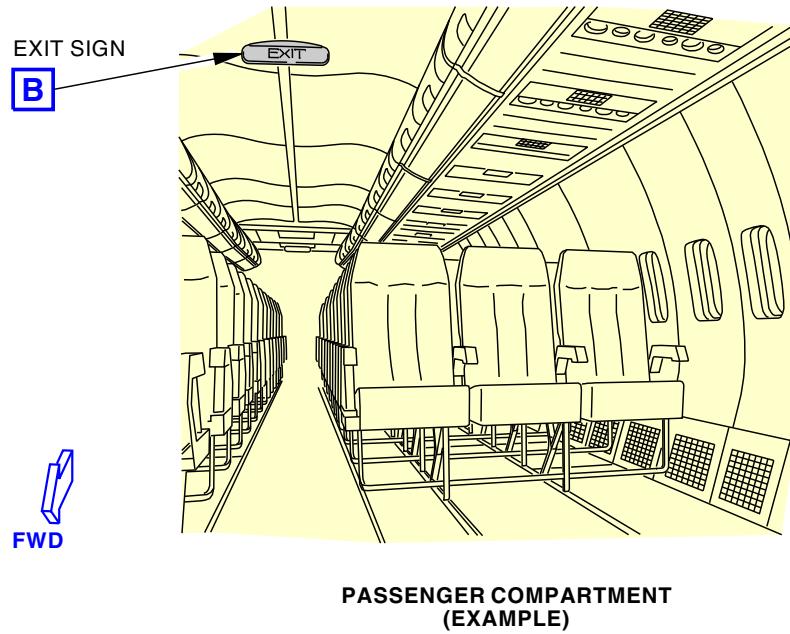
EFFECTIVITY  
LOM ALL

**33-51-01**

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**BOEING**  
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**Exit Sign - Light Assembly Replacement**  
Figure 202/33-51-01-990-802 (Sheet 2 of 6)

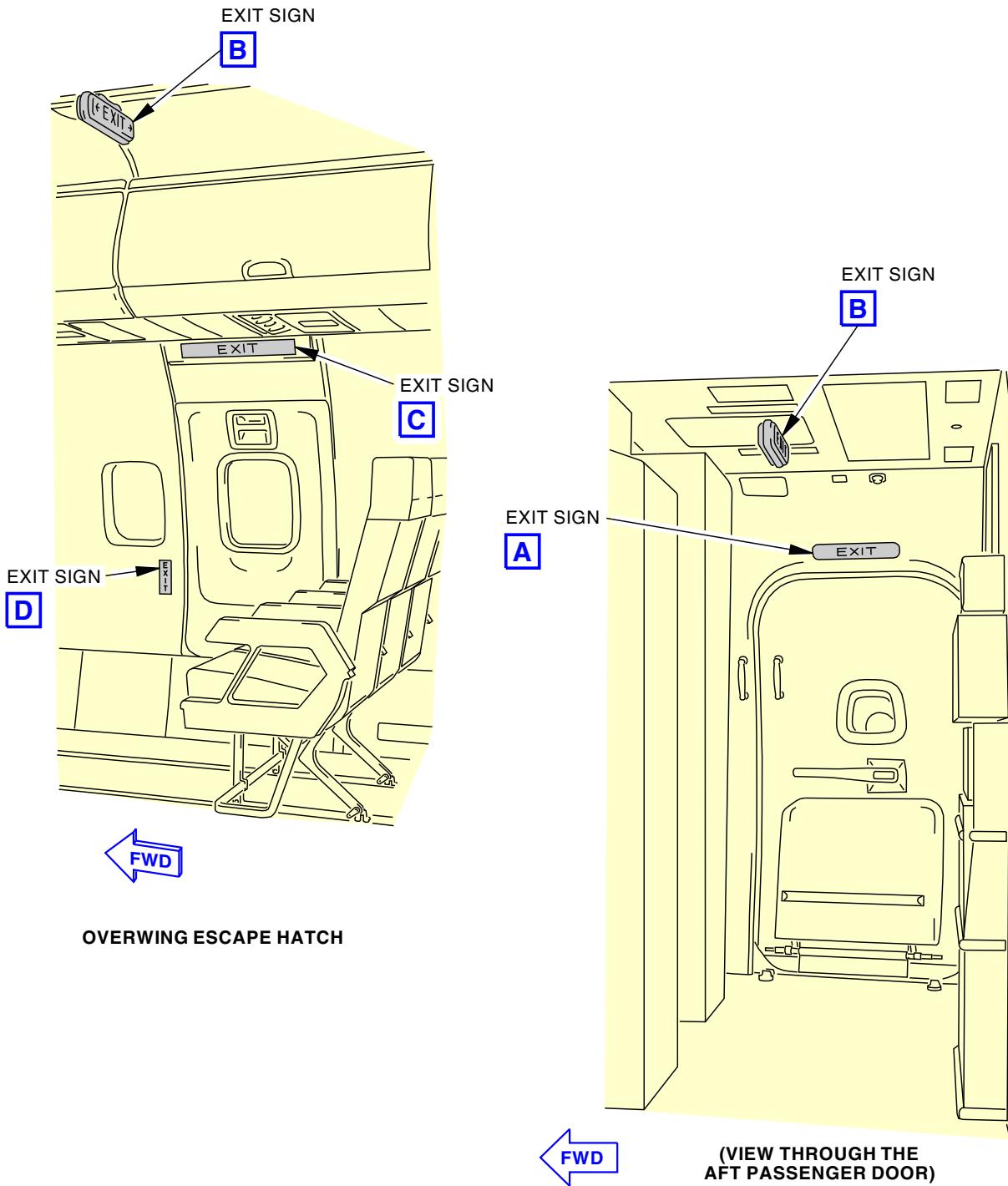
EFFECTIVITY  
LOM ALL

**33-51-01**

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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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**Exit Sign - Light Assembly Replacement**  
**Figure 202/33-51-01-990-802 (Sheet 3 of 6)**

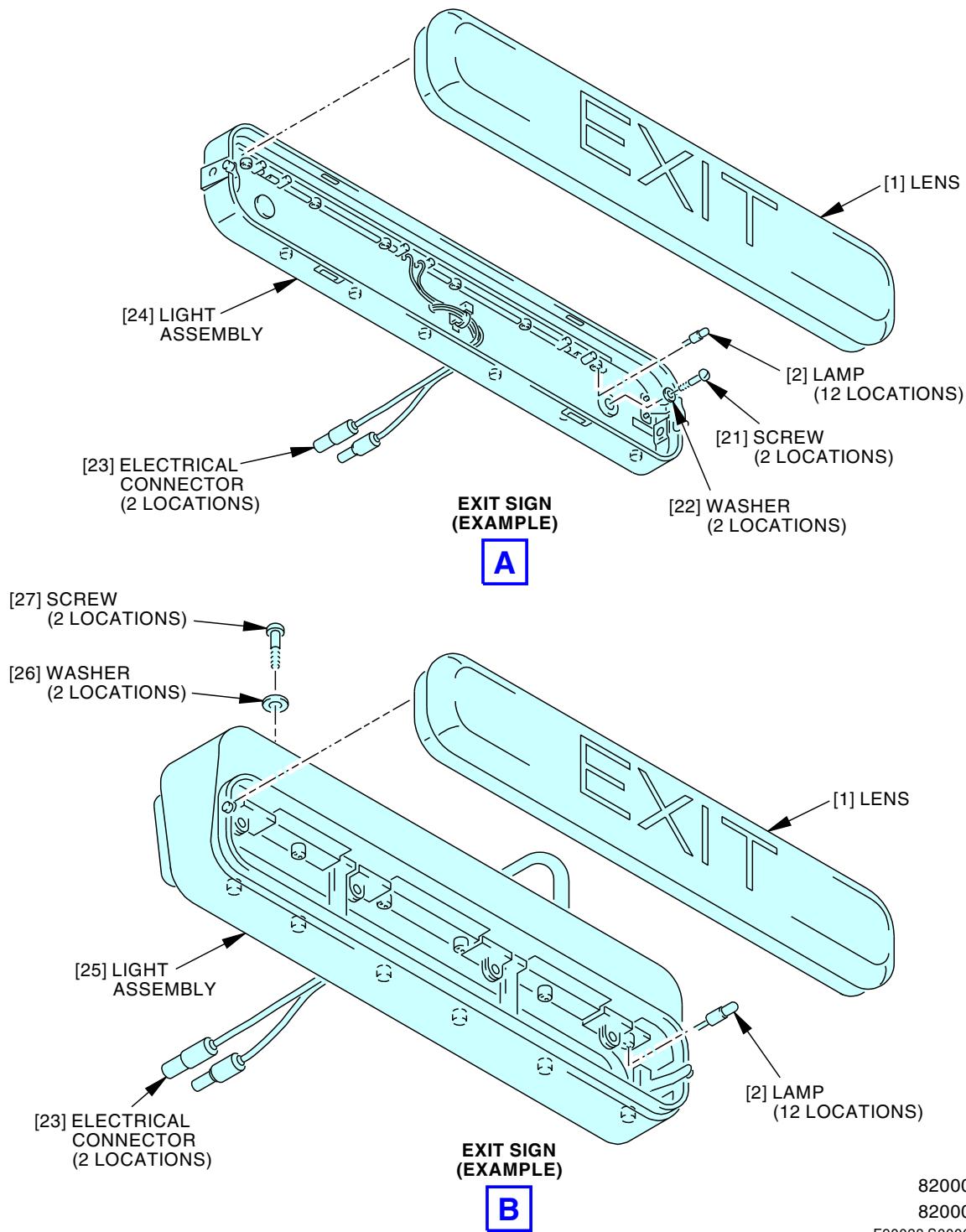
EFFECTIVITY  
**LOM ALL**

**33-51-01**

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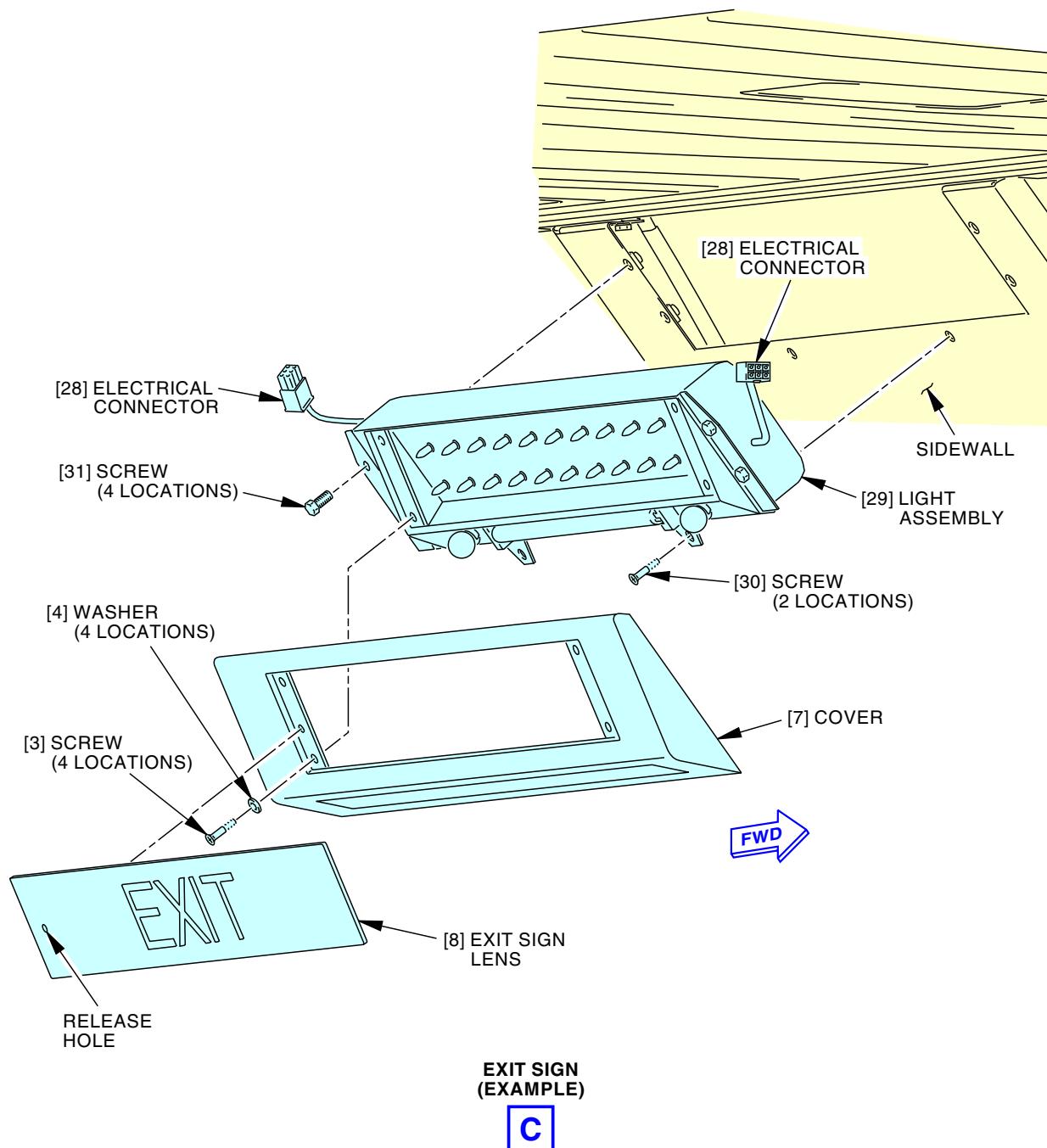
Exit Sign - Light Assembly Replacement  
Figure 202/33-51-01-990-802 (Sheet 4 of 6)

EFFECTIVITY  
LOM ALL

**33-51-01**

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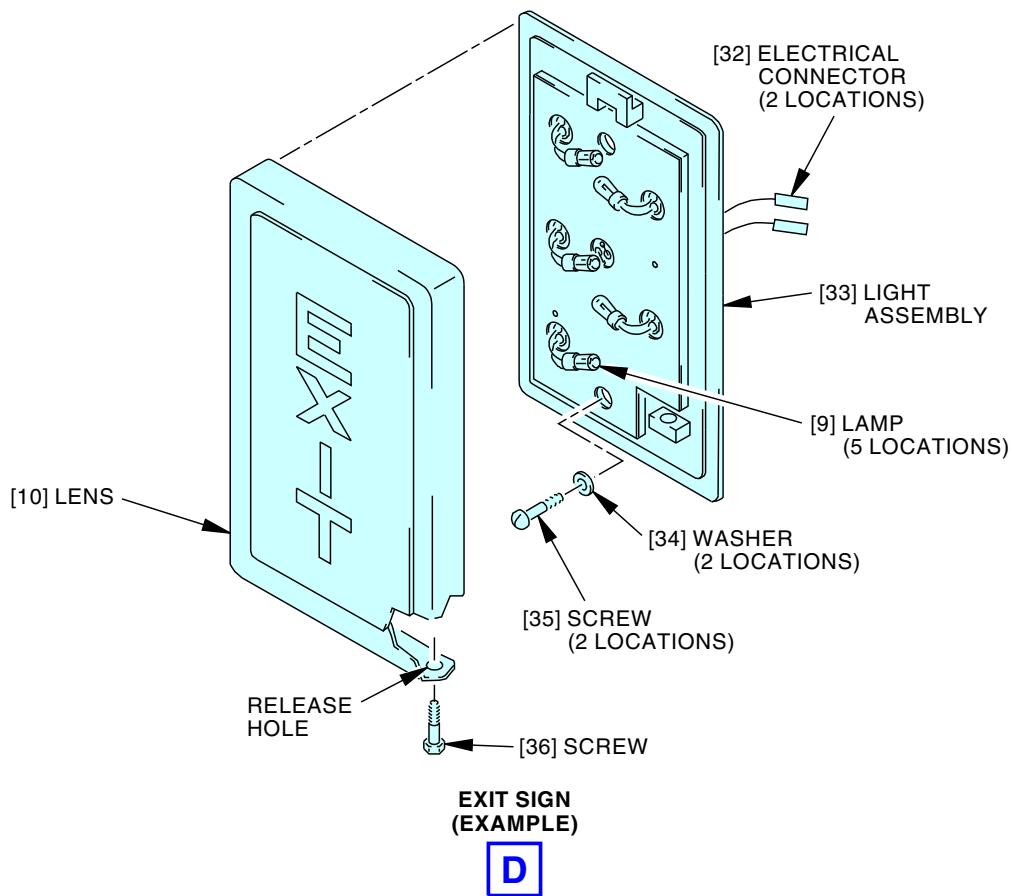
**Exit Sign - Light Assembly Replacement**  
**Figure 202/33-51-01-990-802 (Sheet 5 of 6)**

EFFECTIVITY  
LOM ALL

**33-51-01**

D633A101-LOM

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**Exit Sign - Light Assembly Replacement**  
Figure 202/33-51-01-990-802 (Sheet 6 of 6)

EFFECTIVITY  
LOM ALL

**33-51-01**

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SELF ILLUMINATED EXIT SIGNS - MAINTENANCE PRACTICES

**1. General**

- A. This procedure contains scheduled maintenance task data.
- B. This procedure contains these tasks for a self-illuminated exit sign (referred to as the sign).
  - (1) A task to do a functional test of the signs.
  - (2) A task for the removal of the signs.
  - (3) A task for the installation of the signs.
- C. Each sign is always on. It is a plastic container that holds glass tubes containing tritium (hydrogen-3) gas. The gas reacts with paint on the inside of the glass tubes, causing it to glow. That glow is the light source for the sign.
- D. The sign is safe, unless it, and any of the glass tubes inside are broken. The gas is not under pressure and the tubes are enclosed in a gelatinous material within the sign. That material would help prevent any release of the gas should the sign be broken. Dry tritium gas is not readily absorbed into the body and if inhaled will be exhaled.
- E. If the sign has broken or cracked, but the glass tubes are not broken, do the following:
  - (1) The airplane ventilation should be turned on with the recirculation turned off.
  - (2) Remove the sign:
    - (a) Have a plastic bag ready to put the sign in.
    - (b) Using disposable rubber gloves, put the sign in the plastic bag.
    - (c) Wrap the damaged sign, and the plastic bag, in bubble wrap and place it, and the gloves, in an airtight container.
    - (d) Dispose of the broken sign in accordance with local government regulations.
- F. If the sign has broken and any of the glass tubes are also broken, the tritium can be released. If any of the tubes or gelatinous material is spilled onto any surface, careful decontamination is required. If this happens:
  - (1) Tell other persons to go away from the area and the sign.
  - (2) The services of a Health Physicist are required.
  - (3) The airplane ventilation should be turned on with the recirculation turned Off.
  - (4) The airplane should not be used until all contamination has been removed.
  - (5) Remove the sign:
    - (a) Have a plastic bag ready to put the sign in.
    - (b) Using disposable rubber gloves, put the sign in the plastic bag.
    - (c) Wrap the damaged sign, and the plastic bag, in bubble wrap and place it, and the gloves, in an airtight container.
    - (d) Dispose of the broken sign in accordance with local government regulations.
- G. For data on government regulations about radioactive materials, speak or write to a person in one of these groups:
  - (1) The radiation group at your airline.
  - (2) If you are in the United States of America (U.S.A.), the Nuclear Regulatory Commission (NRC)
    - (a) If you are in a state with an agreement with the NRC, then obey the regulations of that state. Get the data about the regulations from a person in one of these groups:
      - 1) The medical group at your airline

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-425, 427, 428, 433, 434, 439-447, 451-465



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- 2) The state health department.
- (b) If you are in a state that does not have an agreement with the NRC, then obey the regulations of the NRC. Get the data about the regulations from a person in one of these groups:
  - 1) The medical group at your airline
  - 2) The NRC Regional Office.
- (3) If you are in another country, the local government.
- (4) If you cannot get the data from your airline group or the government, write or speak to a person in one of these groups:
  - (a) Boeing Commercial Aviation Services - Safety office  
Telephone: (206) 544-0994

**TASK 33-51-02-720-801**

**2. Self Illuminated Exit Sign - Functional Test**

NOTE: This procedure is a scheduled maintenance task.

**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.

<b>Reference</b>	<b>Description</b>
COM-14684	Meter - Luminance
	Part #: LS-150 Supplier: 4DDU6
	Part #: LS-160 Supplier: 4DDU6
	Opt Part #: LS-100 Supplier: 4DDU6

**B. Location Zones**

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

**C. Procedure**

**SUBTASK 33-51-02-211-001**

- (1) Examine the sign for cracks and holes.
  - (a) If the sign is damaged, replace it.
    - 1) Do these tasks to replace the sign: Self Illuminated Exit Sign - Removal, TASK 33-51-02-020-801;Self Illuminated Exit Sign - Installation, TASK 33-51-02-400-801.

**SUBTASK 33-51-02-730-002**

- (2) Do a lighting intensity test.
  - (a) Do the following steps using luminance meter, COM-14684, to measure the luminance of the sign:
    - 1) Slide power switch to ON.
    - 2) Set the MEASURING MODE selector switch to ABS, and check that CALIBRATION, RESPONSE SPEED and LUMINANCE-UNIT selector switches are set to the LO and fL positions respectively.
    - 3) Aim the meter at the subject and turn the focusing ring until the subject appears sharp.

EFFECTIVITY  
**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-425, 427, 428, 433, 434, 439-447, 451-465**

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- 4) Pull the measuring trigger and hold it in until the luminance value appears in the viewfinder display.

NOTE: The intensity of the light should be a minimum luminance of 0.232 fL.

- (b) If the lighting in the sign does not meet minimum luminance replace the sign.

- 1) Do these tasks to replace the sign: Self Illuminated Exit Sign - Removal, TASK 33-51-02-020-801; Self Illuminated Exit Sign - Installation, TASK 33-51-02-400-801.

————— END OF TASK ————

**TASK 33-51-02-020-801**

**3. Self Illuminated Exit Sign - Removal**

(Figure 201)

**A. References**

Reference	Title
21-00-00-800-805	Supply Conditioned Air with a Ground Air Source (P/B 201)
21-00-00-800-806	Remove Conditioned Air Supplied by a Ground Air Source (P/B 201)

**B. Tools/Equipment**

Reference	Description
STD-13309	Container - Metal, Air Tight (6 x 4 x 4 inches minimum)

**C. Consumable Materials**

Reference	Description	Specification
G00624	Bag - Plastic, General Purpose	
G50140	Gloves - Protective, Latex or Nitrile	
G50319	Wrap - Protective, Bubble	PPP-C-795 CLASS II

**D. Location Zones**

Zone	Area
200	Upper Half of Fuselage

**E. Prepare for the Removal**

SUBTASK 33-51-02-881-001

- (1) Make sure that the airplane air conditioning is on (TASK 21-00-00-800-805).

SUBTASK 33-51-02-880-001

- (2) Make sure that the airplane air conditioning is in non-recirculation mode (TASK 21-00-00-800-806).

SUBTASK 33-51-02-940-001

- (3) Use protective gloves, G50140.

- (a) Loosen the set screws [1] on the top and bottom of the sign.

- (b) Remove the end caps [3] from the sign.

NOTE: When the end caps are removed, you will see the sign fasteners.

**F. Self Illuminated Exit Sign Removal**

SUBTASK 33-51-02-020-001

- (1) If the sign is not damaged, do these steps to remove it:

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-425, 427, 428, 433, 434, 439-447, 451-465

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- (a) Use protective gloves, G50140, to loosen the fasteners [2] until they are finger tight but still attached.
- (b) While holding the sign in place, remove the fasteners [2] completely.
- (c) Carefully remove the sign and wrap it in bubble wrap, G50319.
- (d) Place the wrapped sign in plastic bag, G00624.
- (e) Put plastic bag, G00624, and protective gloves, G50140, in air tight, metal container, STD-13309, close and seal it.
  - 1) Make sure that air tight, metal container, STD-13309, has a Radioactive Material label on the outside.
- (f) Discard air tight, metal container, STD-13309.
- (g) Keep it away from the general workplace and personnel.
- (h) Dispose of the sign in accordance with local government regulations about radioactive material.
  - 1) Make sure that you obey all local government regulations about disposal of radioactive material.

SUBTASK 33-51-02-020-002

- (2) If the sign is damaged, do these steps to remove it:
  - (a) If the sign is cracked or if any pieces of the sign, such as the gel inside or the glass tubes, or pieces of the sign itself have broken loose, follow the ventilation instructions at the beginning of this procedure above.
  - (b) Once people have been warned away from the area and ventilation started, quickly and carefully do the following:
    - 1) Use protective gloves, G50140, to loosen the fasteners [2] until they are finger tight but still attached.
    - 2) While holding the sign in place, remove the fasteners [2] completely.
    - 3) Carefully remove the sign and wrap it in bubble wrap, G50319.
    - 4) Place the wrapped sign in plastic bag, G00624, and seal it.
    - 5) Put plastic bag, G00624, and protective gloves, G50140, in air tight, metal container, STD-13309, close and seal it.
    - 6) Quickly remove air tight, metal container, STD-13309, from the airplane to a well ventilated area and keep people away from it.
    - 7) Make sure that air tight, metal container, STD-13309, has a Radioactive Material label on the outside.
  - (c) Dispose of the sign in accordance with local government regulations about radioactive material.
    - 1) Make sure that you obey all local government regulations about disposal of radioactive material.

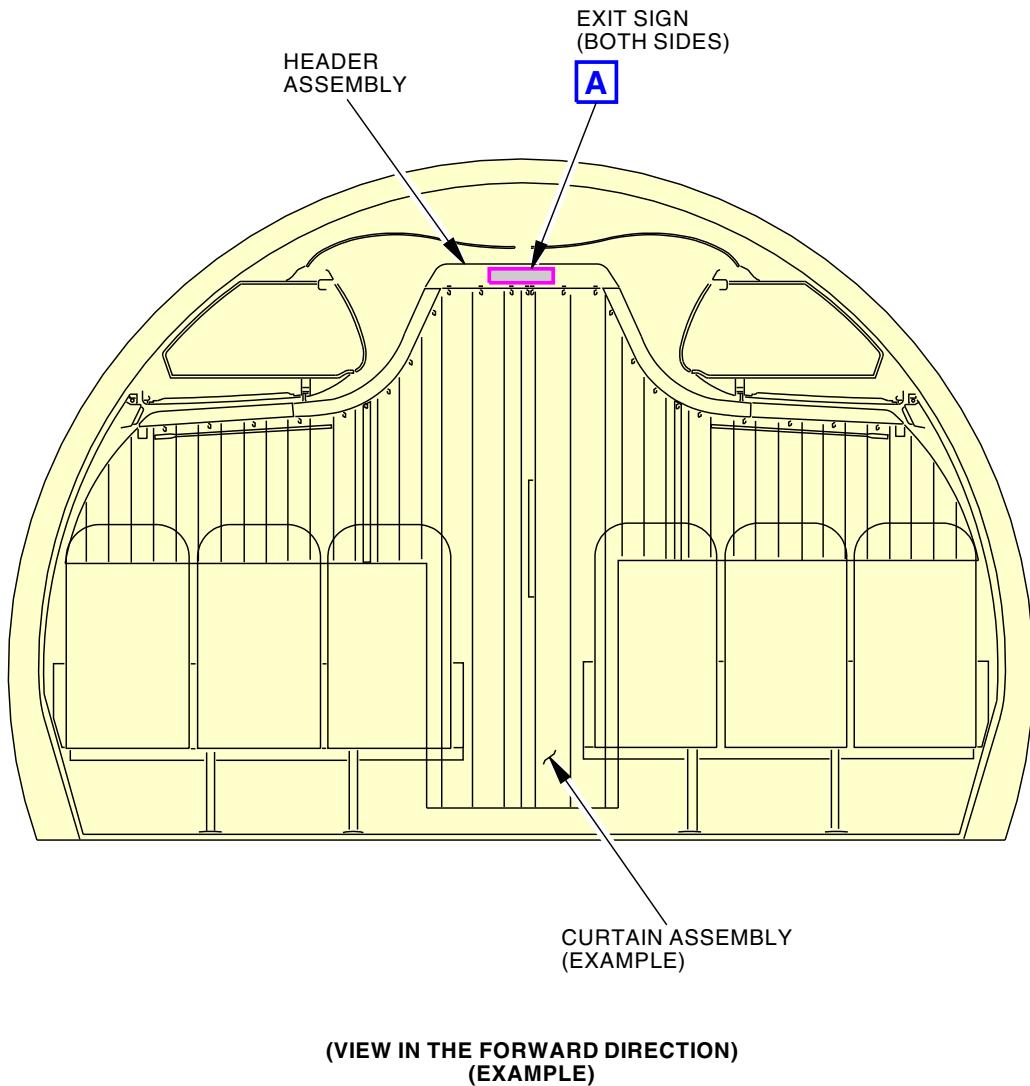
———— END OF TASK ————

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-425, 427, 428, 433, 434, 439-447, 451-465

**33-51-02**



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**Self Illuminated Signs**  
Figure 201/33-51-02-990-801 (Sheet 1 of 2)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-425, 427, 428, 433, 434, 439-447, 451-465

**33-51-02**

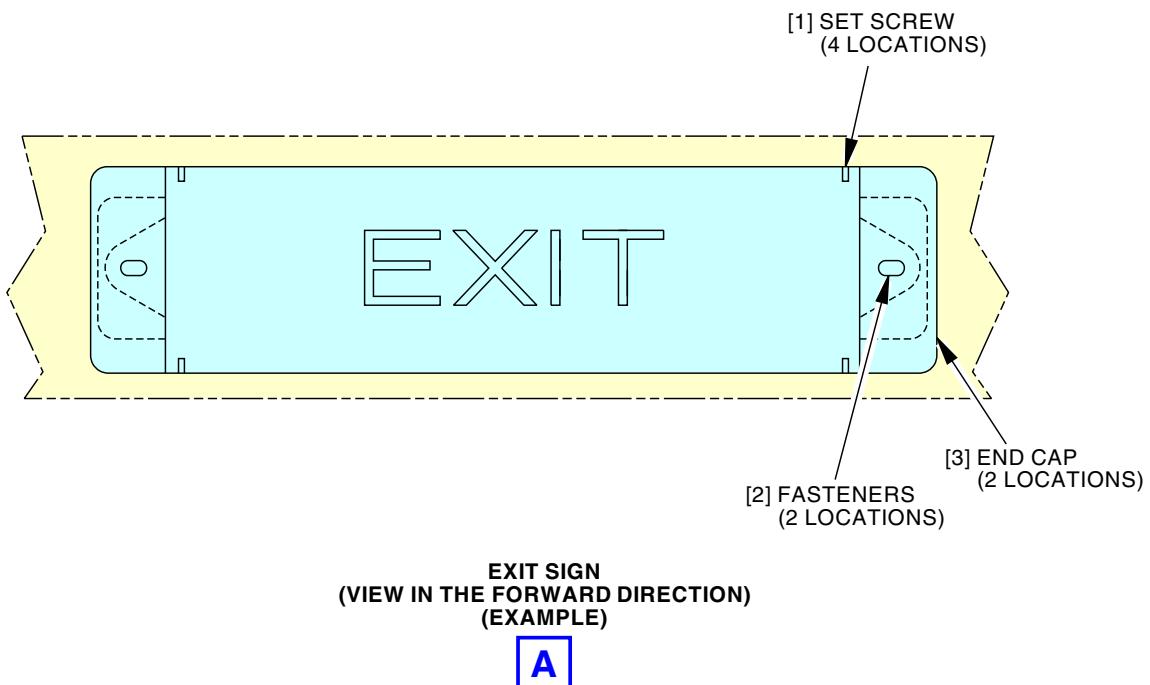
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**Self Illuminated Signs**  
Figure 201/33-51-02-990-801 (Sheet 2 of 2)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-425, 427, 428, 433, 434, 439-447, 451-465

**33-51-02**

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**TASK 33-51-02-400-801**

**4. Self Illuminated Exit Sign - Installation**

(Figure 201)

**A. References**

Reference	Title
21-00-00-800-805	Supply Conditioned Air with a Ground Air Source (P/B 201)
21-00-00-800-806	Remove Conditioned Air Supplied by a Ground Air Source (P/B 201)

**B. Consumable Materials**

Reference	Description	Specification
G50140	Gloves - Protective, Latex or Nitrile	

**C. Location Zones**

Zone	Area
200	Upper Half of Fuselage

**D. Self Illuminated Exit Sign Installation**

SUBTASK 33-51-02-881-002

- (1) Make sure that the air conditioning is on (TASK 21-00-00-800-805).

SUBTASK 33-51-02-880-002

- (2) Make sure that the air conditioning is in non-recirculation mode (TASK 21-00-00-800-806).

SUBTASK 33-51-02-410-001

- (3) Install the new sign:

- (a) Wear protective gloves, G50140, to carefully place the sign in place over the mounting studs.
- (b) Tighten the fasteners [2] to hold the sign in place.
- (c) Place the end caps [3] on the sign and tighten the set screws [1] to hold them in place.

— END OF TASK —

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-425, 427, 428, 433, 434, 439-447, 451-465

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**AREA LIGHTS - MAINTENANCE PRACTICES**

**1. General**

A. This procedure has these tasks:

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

- (1) Area Light - Lamp Replacement
- (2) Area Light - Light Assembly Replacement

**LOM 427-434, 437-447, 450-999**

- (3) Emergency Aisle Light (EAL) - Lens Replacement
- (4) Emergency Aisle Light (EAL) – Assembly Replacement

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

**TASK 33-51-03-960-801**

**2. Area Light - Lamp Replacement**

(Figure 201)

**A. References**

Reference	Title
WDM 33-51-12	Wiring Diagram Manual
WDM 33-51-14	Wiring Diagram Manual

**B. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
3	Lamp	33-51-03-36-090	LOM 402, 404, 406, 411, 412, 415, 416, 422-425
		33-51-03-36A-085	LOM 402, 404, 406, 411, 412, 415, 416, 422-425
		33-51-03-37-085	LOM 402, 404, 406, 411, 412, 415, 416, 422-425
		33-51-03-38-085	LOM 402, 404, 406, 411, 412, 415, 416, 422-425
		33-51-03-39-085	LOM 402, 404, 406, 411, 412, 415, 416, 422-425
		33-51-03-41-085	LOM 402, 404, 406, 411, 412, 415, 416, 422-425
		33-51-03-60A-085	LOM 407, 420, 426
		33-51-03-61-085	LOM 402, 404, 406, 411, 412, 415, 416, 422-425
		33-51-03-70-085	LOM 402, 404, 406, 411, 412, 415
		33-51-03-70A-085	LOM 407, 420, 426
		33-51-03-70C-085	LOM 407, 420, 426
		33-51-03-70G-085	LOM 416, 422-425
		33-51-03-70H-085	LOM 416, 422-425
		33-51-03-80-095	LOM 407



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LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)

(Continued)

AMM Item	Description	AIPC Reference	AIPC Effectivity
3 (cont.)		33-51-03-80E-085 33-51-03-80F-085 33-51-03-80M-085 33-51-03-80R-085 33-51-03-80X-090 33-51-03-80Y-090	LOM 407, 420, 426 LOM 407, 420, 426 LOM 407, 420, 426 LOM 407, 420, 426 LOM 420, 426 LOM 420, 426
27	Lamp	33-51-00-04-055 33-51-00-05-055	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Lamp Replacement

SUBTASK 33-51-03-860-001

- (1) Make sure that the pilots emergency light switch, on the P5 overhead panel, is set to the OFF mode.

SUBTASK 33-51-03-860-002

- (2) Make sure that the attendants emergency light switch in the passenger compartment is set to the NORMAL mode.

SUBTASK 33-51-03-960-001



DO NOT TOUCH THE SOCKETS OF THE METAL ENDS OF THE LAMP. WHEN YOU SUPPLY ELECTRICAL POWER TO THE LIGHT, ELECTRICAL SHOCK CAN OCCUR.

- (3) Do these steps to replace the lamp [3] (WDM 33-51-12 thru WDM 33-51-14):

- (a) Use the release hole [2] to remove the lens assembly [1].
- (b) Replace the lamp [3].
- (c) Install the lens assembly [1].

SUBTASK 33-51-03-960-004

- (4) Do these steps to replace the lamp [27]:

- (a) Remove the lens [26] as follows:
  - 1) Use a wide flat (thin blade) screwdriver, to insert the blade between the lens [26] and ceiling.  
**NOTE:** The lens tabs are located on the sides of the light assembly.
- (b) Twist the screwdriver and at the same time pull the lens [26] from the housing.
- (c) Replace the lamp [27].
- (d) Install the lens [26] as follows:

EFFECTIVITY  
LOM ALL

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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)**

- 1) Align the lens [26] tabs with the holes located on the sides of the housing.
- 2) Insert one tab in the holes and gently press the other tab to secure the lens [26].

SUBTASK 33-51-03-710-001

- (5) Do a test of the new lamp [3] or lamp [27] as follows:

NOTE: The power supply operates the emergency lights. Use the lights for a minimum time to do the test.

- (a) At the pilots P5 overhead panel, or the attendant panel, set the emergency light switch to the ON mode.
  - 1) Make sure that the new lamp comes on.
- (b) Set the switch to the OFF mode at the P5 pilots overhead panel, or attendants emergency light switch at the attendants panel to the NORMAL mode.
  - 1) Make sure that all emergency lights go off.

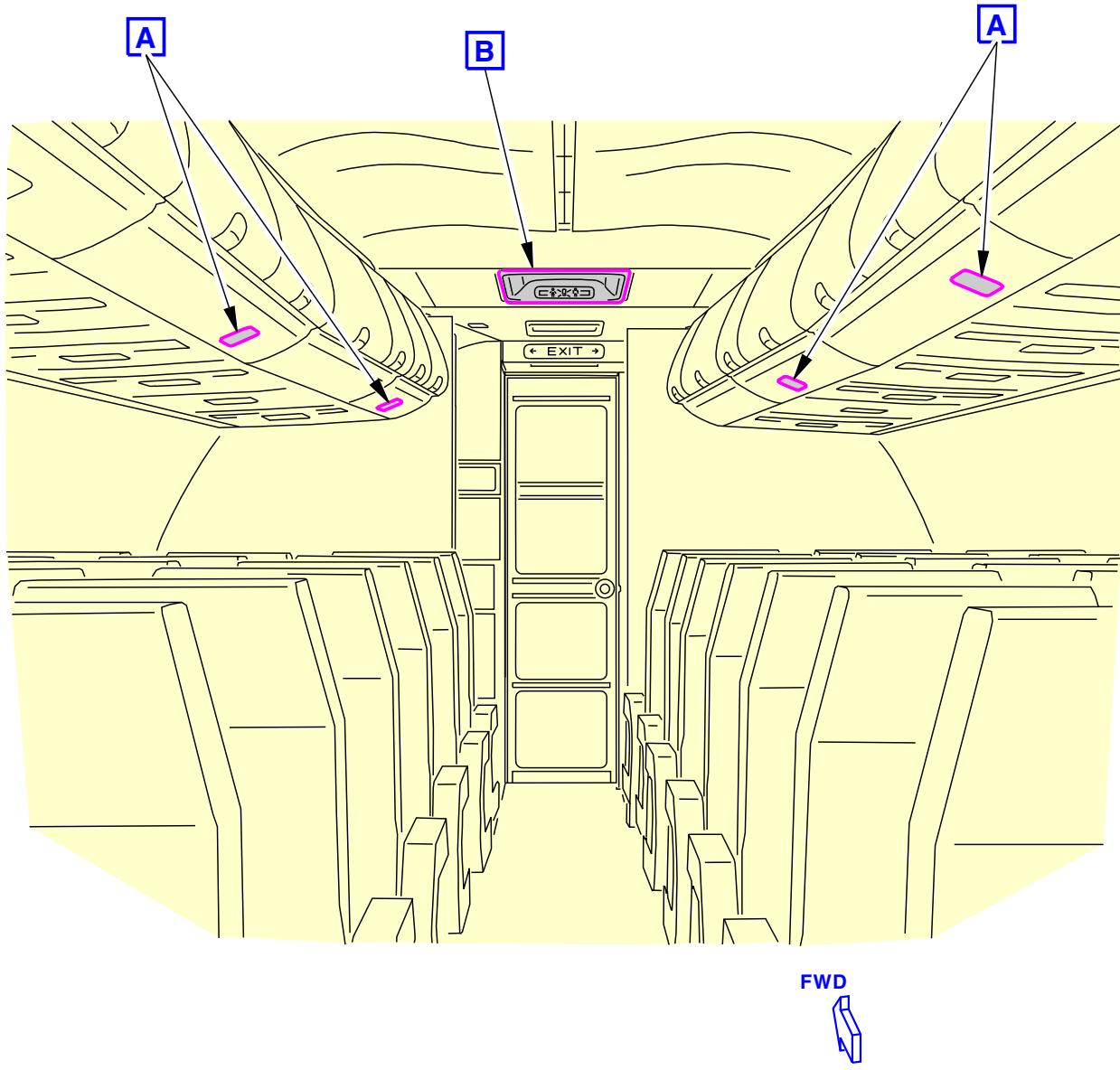
———— END OF TASK ————

EFFECTIVITY  
**LOM ALL**

**33-51-03**



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PASSENGER COMPARTMENT

F60214 S0006576383\_V3

**Area Light - Lamp Replacement**  
**Figure 201/33-51-03-990-801 (Sheet 1 of 3)**

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

**33-51-03**

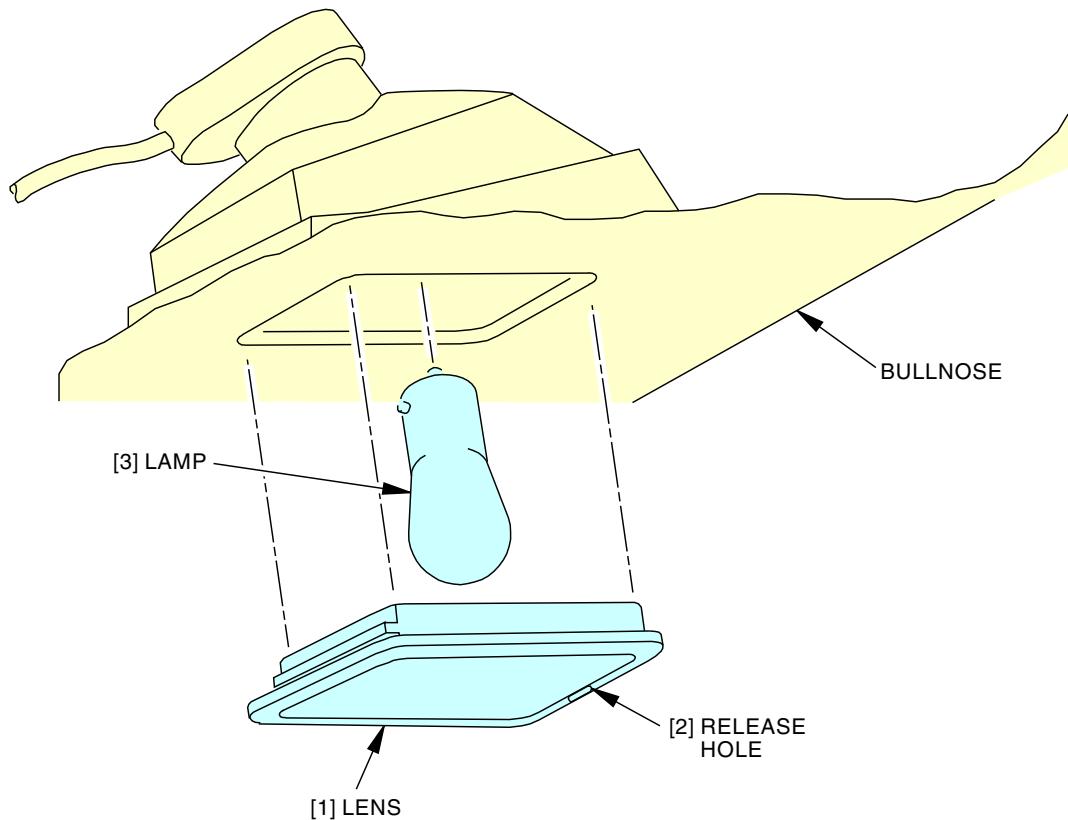
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AISLE LIGHT  
(EXAMPLE)

**A**

F60253 S0006576384\_V3

Area Light - Lamp Replacement  
Figure 201/33-51-03-990-801 (Sheet 2 of 3)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

**33-51-03**

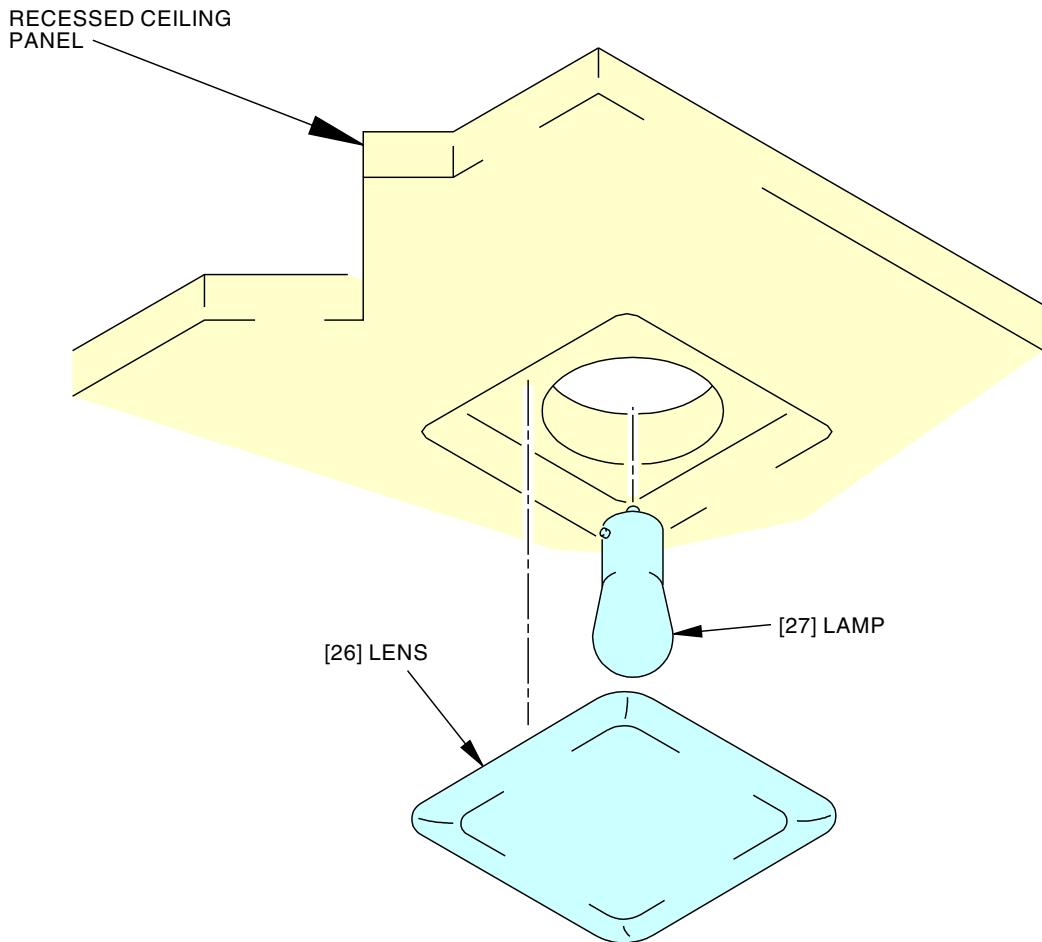
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AREA LIGHT  
(EXAMPLE)

B

3033125 S0000803594\_V1

Area Light - Lamp Replacement  
Figure 201/33-51-03-990-801 (Sheet 3 of 3)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

**33-51-03**

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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)**

**TASK 33-51-03-960-802**

**3. Area Light - Light Assembly Replacement**

(Figure 202)

**A. References**

<b>Reference</b>	<b>Title</b>
25-21-71-000-804	Horseshoe Panel Removal (P/B 401)
25-21-71-400-804	Horseshoe Panel Installation (P/B 401)
25-23-61 P/B 201	PASSENGER SERVICE UNIT (PSU) - MAINTENANCE PRACTICES
WDM 33-51-12	Wiring Diagram Manual
WDM 33-51-14	Wiring Diagram Manual

**B. Expendables/Parts**

<b>AMM Item</b>	<b>Description</b>	<b>AIPC Reference</b>	<b>AIPC Effectivity</b>
23	Light assembly	33-51-03-36-085	LOM 402, 404, 406, 411, 412, 415, 416, 422-425
		33-51-03-36A-080	LOM 402, 404, 406, 411, 412, 415, 416, 422-425
		33-51-03-37-080	LOM 402, 404, 406, 411, 412, 415, 416, 422-425
		33-51-03-38-080	LOM 402, 404, 406, 411, 412, 415, 416, 422-425
		33-51-03-39-080	LOM 402, 404, 406, 411, 412, 415, 416, 422-425
		33-51-03-41-080	LOM 402, 404, 406, 411, 412, 415, 416, 422-425
		33-51-03-60A-080	LOM 407, 420, 426
		33-51-03-61-080	LOM 402, 404, 406, 411, 412, 415, 416, 422-425
		33-51-03-70-080	LOM 402, 404, 406, 411, 412, 415
		33-51-03-70A-080	LOM 407, 420, 426
		33-51-03-70C-080	LOM 407, 420, 426
		33-51-03-70G-080	LOM 416, 422-425
		33-51-03-70H-080	LOM 416, 422-425
		33-51-03-80-090	LOM 407
		33-51-03-80E-080	LOM 407, 420, 426
		33-51-03-80F-080	LOM 407, 420, 426
		33-51-03-80M-080	LOM 407, 420, 426
		33-51-03-80R-080	LOM 407, 420, 426
		33-51-03-80X-085	LOM 420, 426
		33-51-03-80Y-085	LOM 420, 426

EFFECTIVITY  
LOM ALL

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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)**

(Continued)

<b>AMM Item</b>	<b>Description</b>	<b>AIPC Reference</b>	<b>AIPC Effectivity</b>
34	Light assembly	33-51-00-04-035	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426
		33-51-00-05-035	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426

**C. Location Zones**

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

**D. Light Assembly Replacement**

SUBTASK 33-51-03-960-002

- (1) Remove the adjacent Passenger Service Unit (PSU) (PASSENGER SERVICE UNIT (PSU) - MAINTENANCE PRACTICES, PAGEBLOCK 25-23-61/201).

SUBTASK 33-51-03-860-003

- (2) Do these steps to loosen the bullnose cover [12] to get access to the light assembly [23] as follows:

- (a) Loosen the closeouts [18] at the ends of the bullnose cover [12]:
  - 1) Open the stowage bin [15] door and remove the screws [13] and the washers [14].
  - 2) Remove the screws [16] through the applicable hole in the MCD/PSU rail [17].
  - 3) Move the closeouts [18] to the adjacent bins to release them from the edges of the bullnose cover [12].
- (b) Push inboard on the clips [19] to release the bullnose cover [12] from the MCD/PSU rail [17].

NOTE: The notches in the outboard flange of the MCD/PSU rail [17] show the locations of the clips [19].

SUBTASK 33-51-03-960-003



DO NOT TOUCH THE METAL PINS IN THE ELECTRICAL CONNECTOR.  
 WHEN YOU SUPPLY ELECTRICAL POWER TO THE LIGHT, AN ELECTRICAL SHOCK CAN OCCUR.

- (3) Do these steps to replace the light assembly [23] (WDM 33-51-12 thru WDM 33-51-14) :
  - (a) Remove the screws [24] and washers [25].
  - (b) Lift up the cover [22] on the electrical wires [21].
  - (c) Disconnect the electrical wires [21].
  - (d) Replace the light assembly [23].
  - (e) Connect the electrical wires [21] to the new light assembly [23].
  - (f) Put the cover [22] on the electrical wires [21].
  - (g) Install the washers [25] and screws [24].

SUBTASK 33-51-03-420-001

- (4) Do these steps to install the bullnose cover [12] to the MCD/PSU rail [17]:

EFFECTIVITY	
	LOM ALL

**33-51-03**



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

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)**

- (a) Make sure that you engage the clips [19] on the MCD/PSU rail [17] as you put the bullnose cover [12] in its position.
- (b) Move the closeouts [18] over the edges of the bullnose cover [12].
- (c) Install the washers [14] and the screws [13].
- (d) Install the screws [16].

SUBTASK 33-51-03-420-002

- (5) Install the adjacent PSU (PASSENGER SERVICE UNIT (PSU) - MAINTENANCE PRACTICES, PAGEBLOCK 25-23-61/201).

SUBTASK 33-51-03-960-005

- (6) Do these steps to replace the light assembly [34]:
  - (a) Lower the recessed ceiling panel (TASK 25-21-71-000-804).
  - (b) Remove the screws [29] from the terminal shield cover [30].
  - (c) Remove the terminal shield cover [30].
  - (d) Disconnect the electrical wires [28].
  - (e) Remove the screws [31] and washers [32], that attach the light assembly [34] to the brackets [33].
  - (f) Replace the light assembly [34].
  - (g) To attach the light assembly [34] to the brackets [33], install the screws [31] and washers [32].
  - (h) Connect the electrical wires [28].
  - (i) Attach the terminal shield cover [30].
    - 1) Secure the terminal shield cover [30] with the screws [29].
  - (j) Close the recessed ceiling panel (TASK 25-21-71-400-804).

SUBTASK 33-51-03-710-002

- (7) Do a test of the new light assembly [23] or light assembly [34] as follows:

NOTE: The power supply operates the emergency lights. Use the lights for a minimum time to do the test.

- (a) At the P5 pilots overhead panel, or the attendant panel, set the emergency light switch to the ON mode.
  - 1) Make sure that the new lamp comes on.
- (b) Set the switch to the OFF mode at the P5 pilots overhead panel, or attendants emergency light switch at the attendants panel to the NORMAL mode.
  - 1) Make sure that all emergency lights go off.

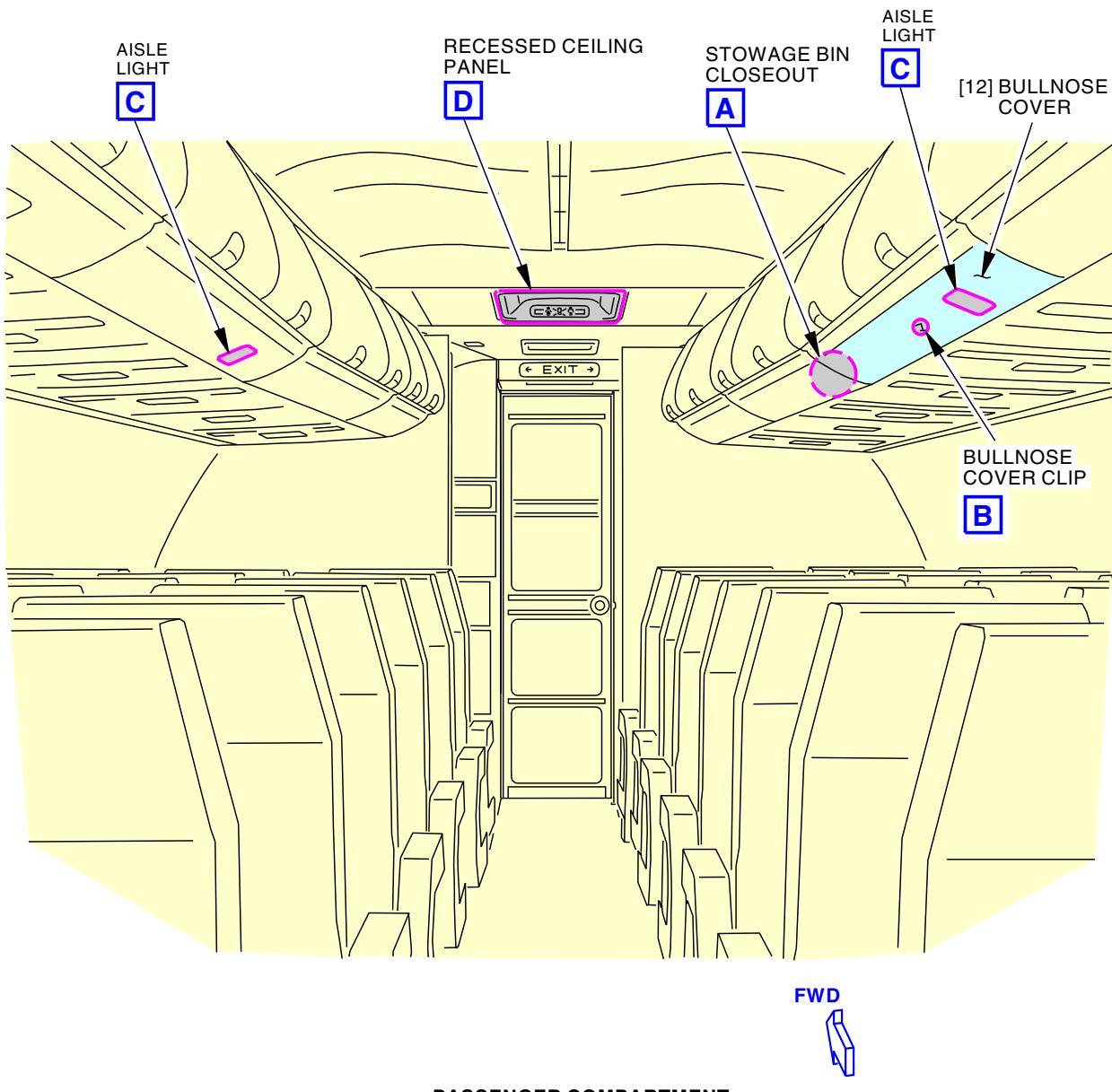
———— END OF TASK ———

EFFECTIVITY  
LOM ALL

**33-51-03**



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



F60279 S0006576386\_V4

**Area Light - Light Assembly Replacement**  
**Figure 202/33-51-03-990-802 (Sheet 1 of 4)**

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

**33-51-03**

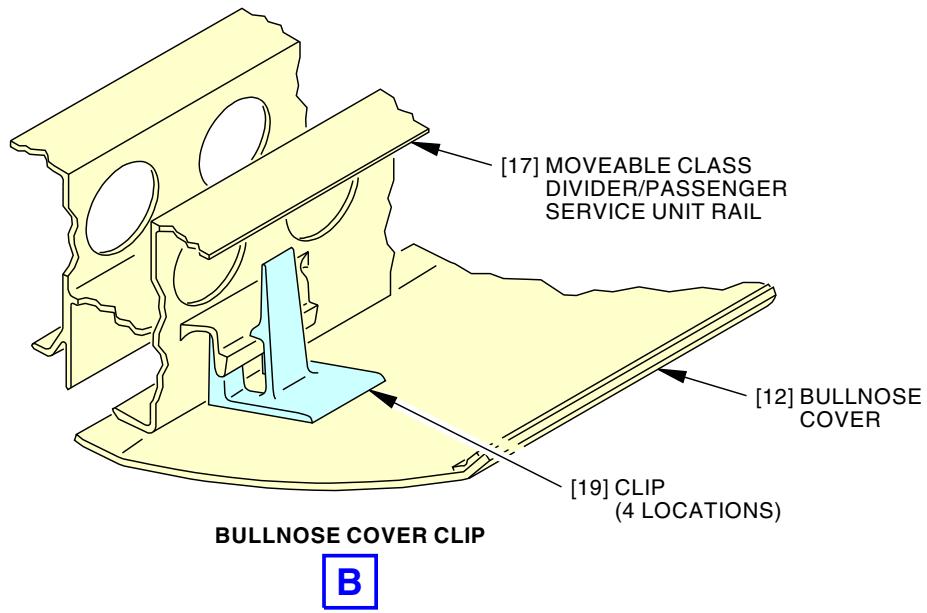
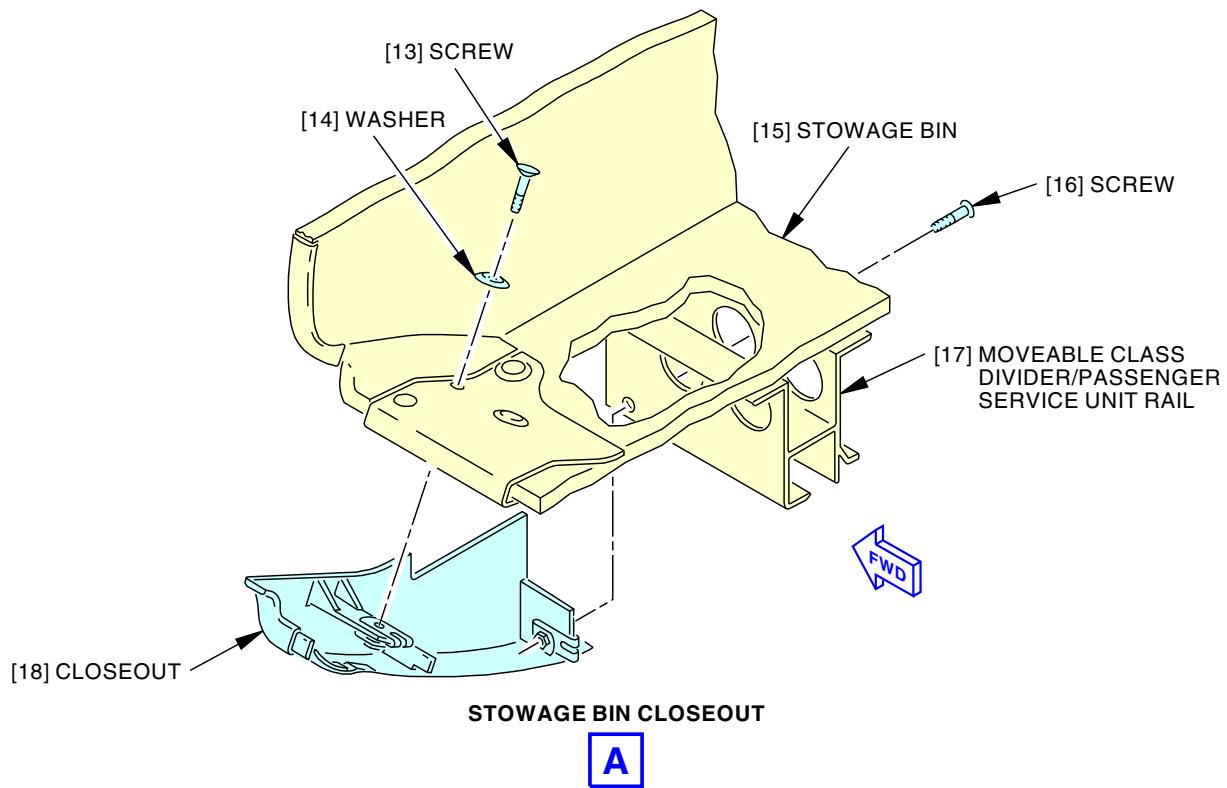
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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AIRCRAFT MAINTENANCE MANUAL



3027305 S0000798479\_V1

**Area Light - Light Assembly Replacement**  
**Figure 202/33-51-03-990-802 (Sheet 2 of 4)**

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

**33-51-03**

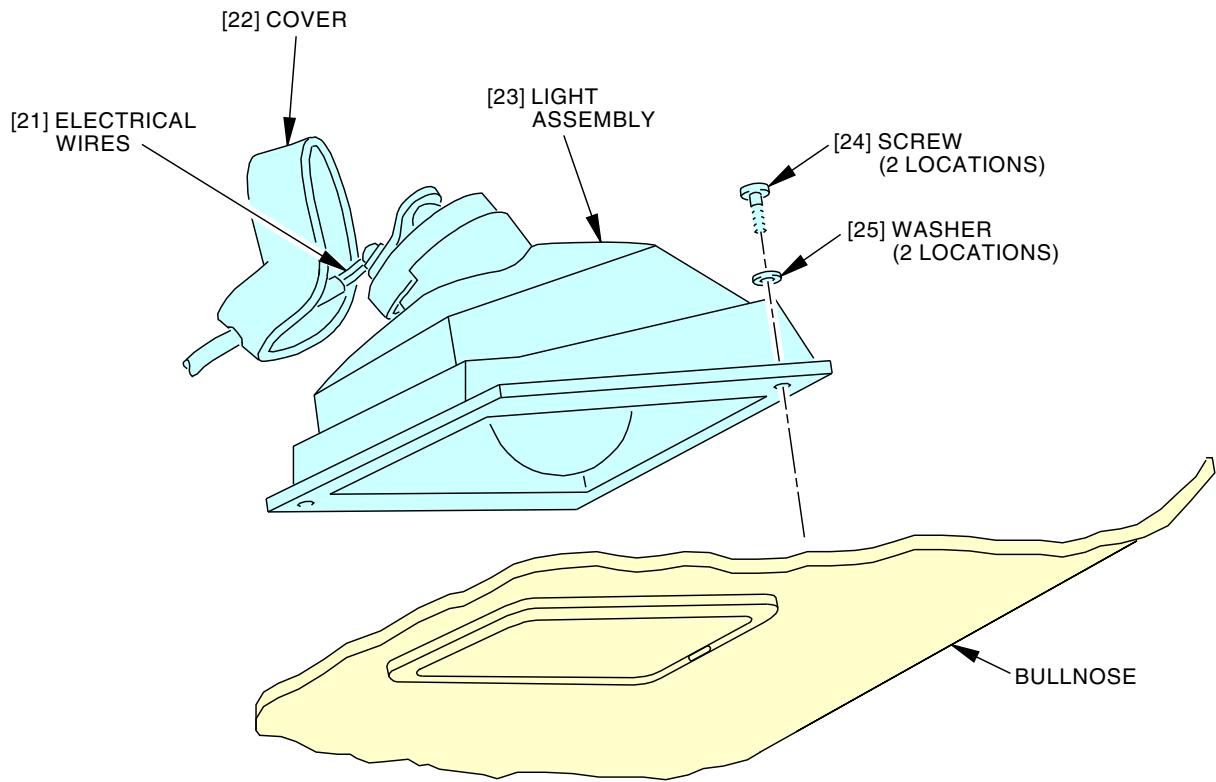
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AIRCRAFT MAINTENANCE MANUAL



AISLE LIGHT  
(EXAMPLE)

C

F60427 S0006576387\_V4

**Area Light - Light Assembly Replacement**  
**Figure 202/33-51-03-990-802 (Sheet 3 of 4)**

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

**33-51-03**

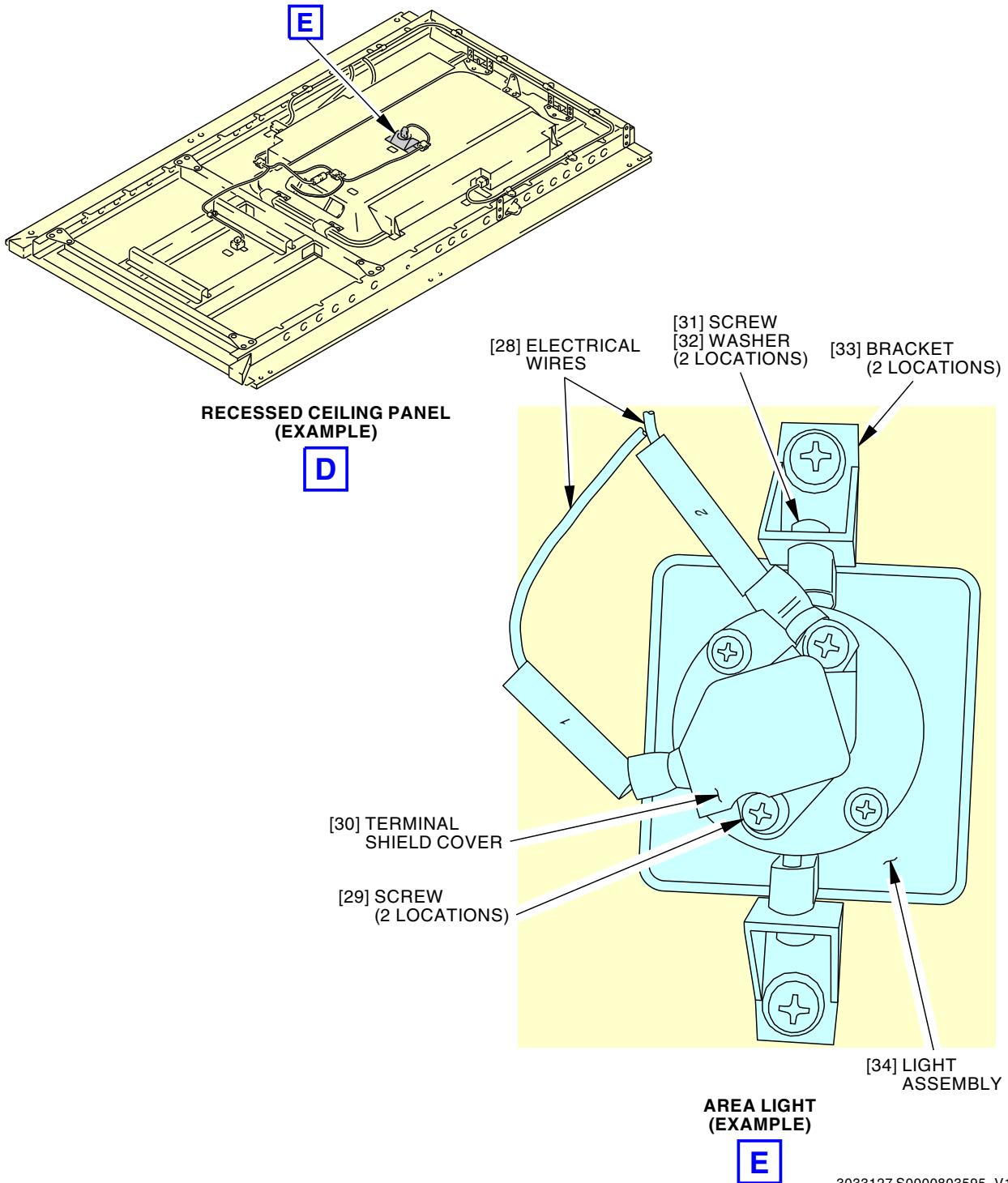
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737-600/700/800/900  
AIRCRAFT MAINTENANCE MANUAL



3033127 S0000803595\_V1

**Area Light - Light Assembly Replacement**  
Figure 202/33-51-03-990-802 (Sheet 4 of 4)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

**33-51-03**

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LOM 427-434, 437-447, 450-999

**TASK 33-51-03-960-803**

**4. Emergency Aisle Light (EAL) Lens Replacement**

(Figure 203)

**A. General**

- (1) This task includes the steps to replace the Emergency Aisle Light (EAL) lens.

**B. Tools/Equipment**

Reference	Description
STD-549	Knife - Putty, Broad Blade

**C. Location Zones**

Zone	Area
200	Upper Half of Fuselage

**D. Emergency Aisle Light (EAL) Lens Replacement**

SUBTASK 33-51-03-010-001

- (1) Remove the lens [4].

- (a) Use a laminated card for this procedure.

NOTE: The laminated card must be thin and sturdy enough, to slide between the valance and the lens. This will prevent damage to the valance.

- (b) Insert and slide the edge of the card between the rim of the lens [4] and the valance.

- (c) Move the card around and stop at the top of the lens [4].

1) Make sure that the card is in a horizontal position between the lens [4] and the valance.

- (d) Insert the broad blade putty knife, STD-549 (or equivalent), between the card and the lens [4].

- (e) Pull the handle of the broad blade putty knife, STD-549 (or equivalent) in your direction, away from the valance.

NOTE: You can twist the handle of the putty knife slightly, if necessary.

- 1) Remove the lens [4].

SUBTASK 33-51-03-410-001

- (2) Install the lens [4].

- (a) Align the lens against the EAL housing assembly [5].

1) Make sure that the two prongs of the lens [4] align with the top of the EAL housing assembly [5].

NOTE: The top part of the lens has two prongs. The lower part has one prong.

- (b) Engage the single prong of the lens [4] behind the lower rim of the EAL housing assembly [5].

- (c) Push the top of the lens [4] against the EAL housing assembly [5].

1) Make sure that the two prongs of the lens [4] snap into their positions.

EFFECTIVITY  
LOM ALL

**33-51-03**



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**LOM 427-434, 437-447, 450-999 (Continued)**

SUBTASK 33-51-03-710-003

- (3) Do a test of the light.

**NOTE:** The power supply operates the emergency lights. Use the lights for a minimum time to do the test.

- (a) At the pilots overhead panel, P5, or the attendant panel, set the emergency light switch to the ON mode.  
    1) Make sure that the light comes on.
- (b) Set the emergency light switch on the overhead panel, P5, to the OFF mode or the emergency light switch on the attendant panel to the NORMAL mode.  
    1) Make sure that all emergency lights go off.

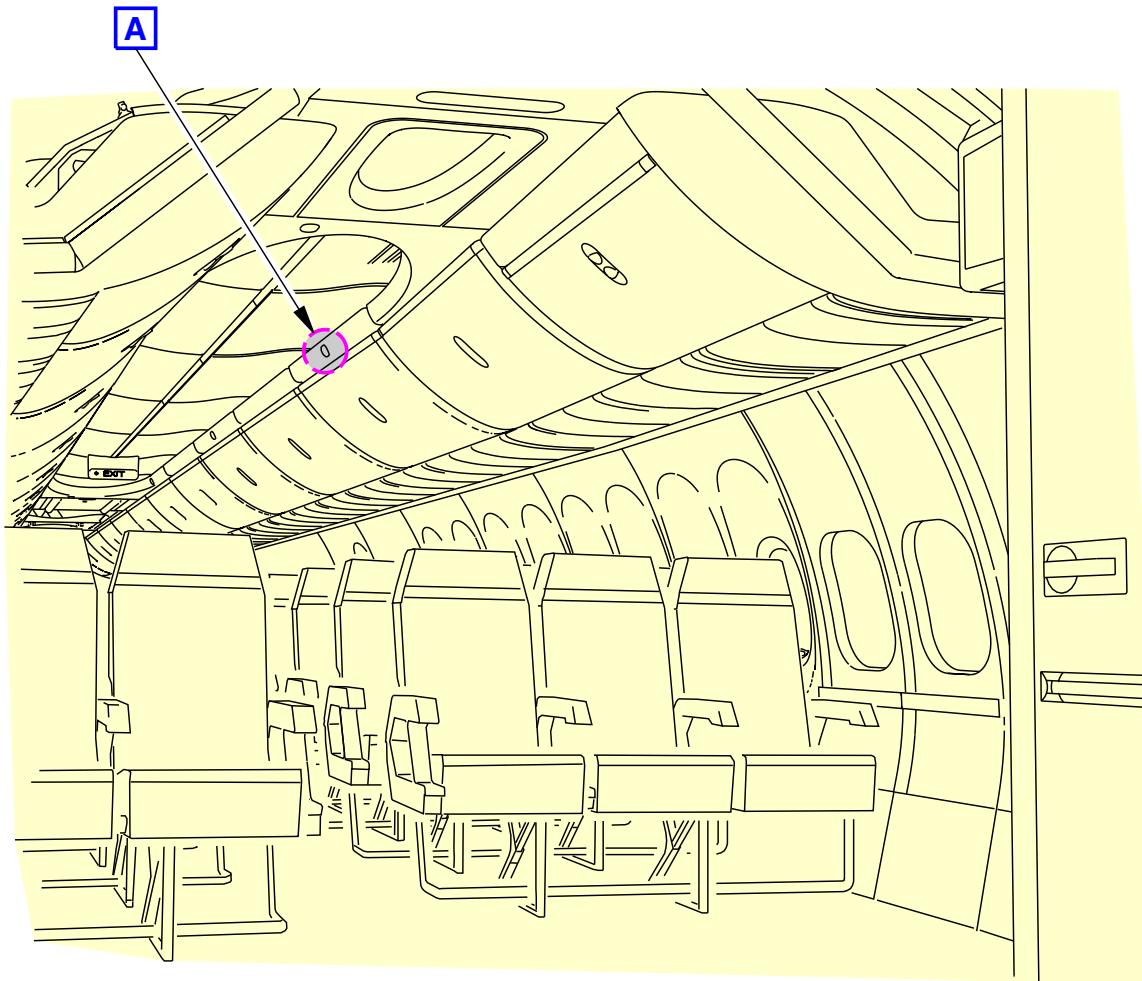
———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-51-03**



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PASSENGER COMPARTMENT

2178138 S0000480795\_V2

**Emergency Aisle Light (EAL) - Lens Replacement**  
**Figure 203/33-51-03-990-803 (Sheet 1 of 2)**

EFFECTIVITY  
LOM 427-434, 437-447, 450-999

**33-51-03**

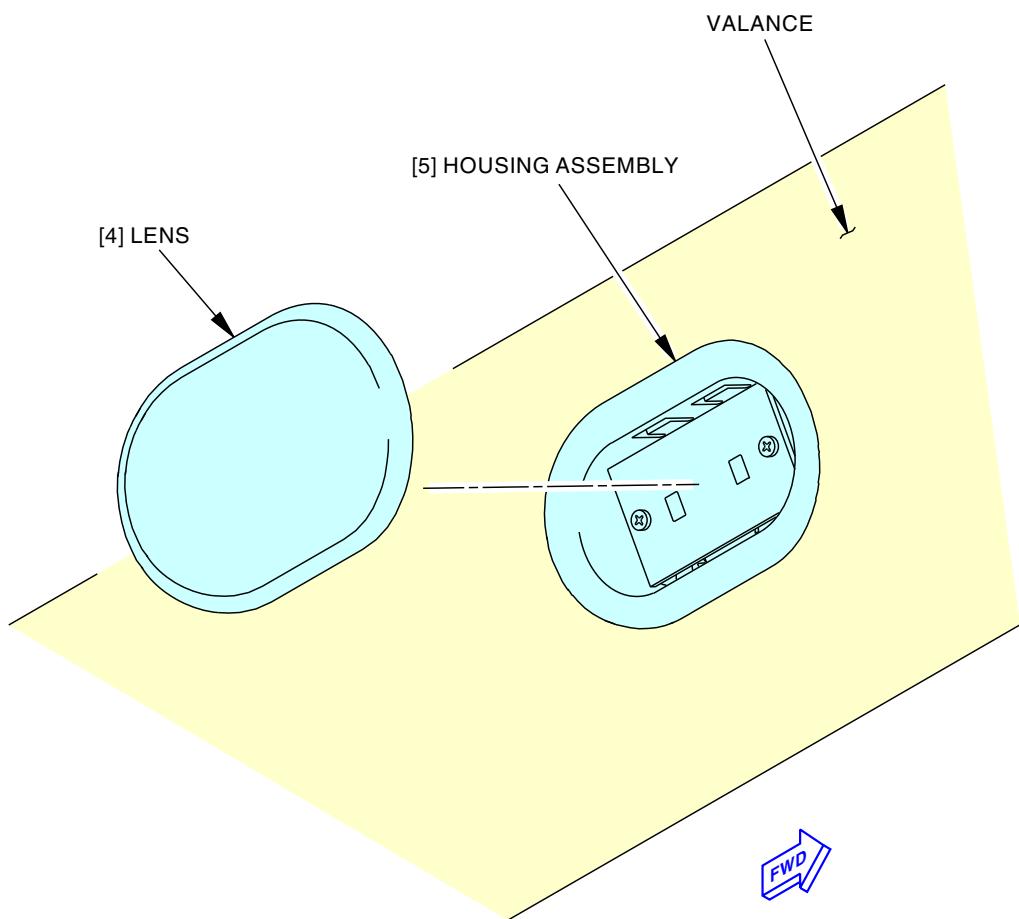
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EMERGENCY AISLE LIGHT (EAL)  
(EXAMPLE)

A

2178164 S0000480796\_V2

Emergency Aisle Light (EAL) - Lens Replacement  
Figure 203/33-51-03-990-803 (Sheet 2 of 2)

EFFECTIVITY  
LOM 427-434, 437-447, 450-999

**33-51-03**

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# **737-600/700/800/900**

## **AIRCRAFT MAINTENANCE MANUAL**

**LOM 427-434, 437-447, 450-999 (Continued)**

**TASK 33-51-03-960-805**

## **5. Emergency Aisle Light (EAL) Assembly Replacement**

(Figure 204)

## A. General

- (1) This task includes the steps to replace the Emergency Aisle Light (EAL) assembly.

## B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
8	Emergency aisle light (EAL) assembly	33-51-03-90-040 33-51-03-90A-085 33-51-03-90A-380 33-51-03-90B-035 33-51-03-90C-045 33-51-03-90D-040 33-51-03-90E-040 33-51-03-90F-040 33-51-03-90L-080 33-51-03-90N-055 33-51-03-90P-055 33-51-03-90R-040 33-51-03-90S-035 33-51-03-90U-035 33-51-03-91K-035 33-51-03-92-055 33-51-03-92-160	LOM 446, 447, 455-460, 465 LOM 427-434, 437-447, 450-465 LOM 427-434, 437-447, 450-465 LOM 427-434, 437-445, 450-454, 461-464 LOM 432, 450 LOM 429-432, 437-439, 441, 443-447, 450-452, 455-465 LOM 427-431, 433, 434, 437-445, 451-454, 461-464 LOM 427, 428, 433, 434, 440, 442, 453, 454 LOM 466-999 LOM 466-999 LOM 466-999 LOM 466-999 LOM 466-999 LOM 466-999 LOM 466-999 LOM 466-999 LOM 427-434, 437-447, 450-465 LOM 427-434, 437-447, 450-465

## C. Location Zones

Zone	Area
200	Upper Half of Fuselage

#### D. Emergency Aisle Light (EAL) Assembly Replacement

SUBTASK 33-51-03-980-001

- (1) Make sure that the pilot's emergency light switch, on the P5 overhead panel, is set to the OFF mode.

## EFFECTIVITY LOM ALL

33-51-03



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**LOM 427-434, 437-447, 450-999 (Continued)**

SUBTASK 33-51-03-980-002

- (2) Make sure that the attendant's emergency light switch, in the passenger compartment, is set to the NORMAL mode.

SUBTASK 33-51-03-010-003

- (3) Remove the emergency aisle light (EAL) assembly [8].
- Remove the lens. Do the removal steps of this task: Emergency Aisle Light (EAL) Lens Replacement, TASK 33-51-03-960-803.  
NOTE: You can remove the EAL assembly with the lens installed.
  - Get access behind the valance assembly.
  - Disconnect the electrical connector [9].
  - Remove the retaining ring [10].
  - Remove the gasket [11].
    - Replace the gasket [11] if damaged.
  - Remove the emergency aisle light (EAL) assembly [8].

SUBTASK 33-51-03-410-003

- (4) Install the emergency aisle light (EAL) assembly [8].
- Install the emergency aisle light (EAL) assembly [8] from the outer side (decorative side) of the valance assembly.
    - Put the electrical connector [9] through the hole of the valance assembly.
  - Align the top of the emergency aisle light (EAL) assembly [8] with the top of the hole of the valance assembly.  
NOTE: You can identify the top of the EAL housing assembly by its two prong slots.
  - Get access behind the valance assembly.
  - Install the new gasket [11].
  - Install the retaining ring [10] that attaches the emergency aisle light (EAL) assembly [8] to the valance assembly.
    - Make sure that the emergency aisle light (EAL) assembly [8] attaches into the correct position.
  - Connect the electrical connector [9].
  - Install the lens. Do the installation steps of this task: Emergency Aisle Light (EAL) Lens Replacement, TASK 33-51-03-960-803.  
NOTE: You can install the EAL assembly with the lens already installed.

SUBTASK 33-51-03-710-005

- (5) Do a test of the new light.

NOTE: The power supply operates the emergency lights. Use the lights for a minimum time to do the test.

- At the pilots overhead panel, P5, or the attendant panel, set the emergency light switch to the ON mode.
  - Make sure that the light comes on.
- Set the emergency light switch on the overhead panel, P5, to the OFF mode or the emergency light switch on the attendant panel to the NORMAL mode.

EFFECTIVITY  
LOM ALL

**33-51-03**



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**LOM 427-434, 437-447, 450-999 (Continued)**

- 1) Make sure that all emergency lights go off.

———— END OF TASK ————

— EFFECTIVITY —  
**LOM ALL**

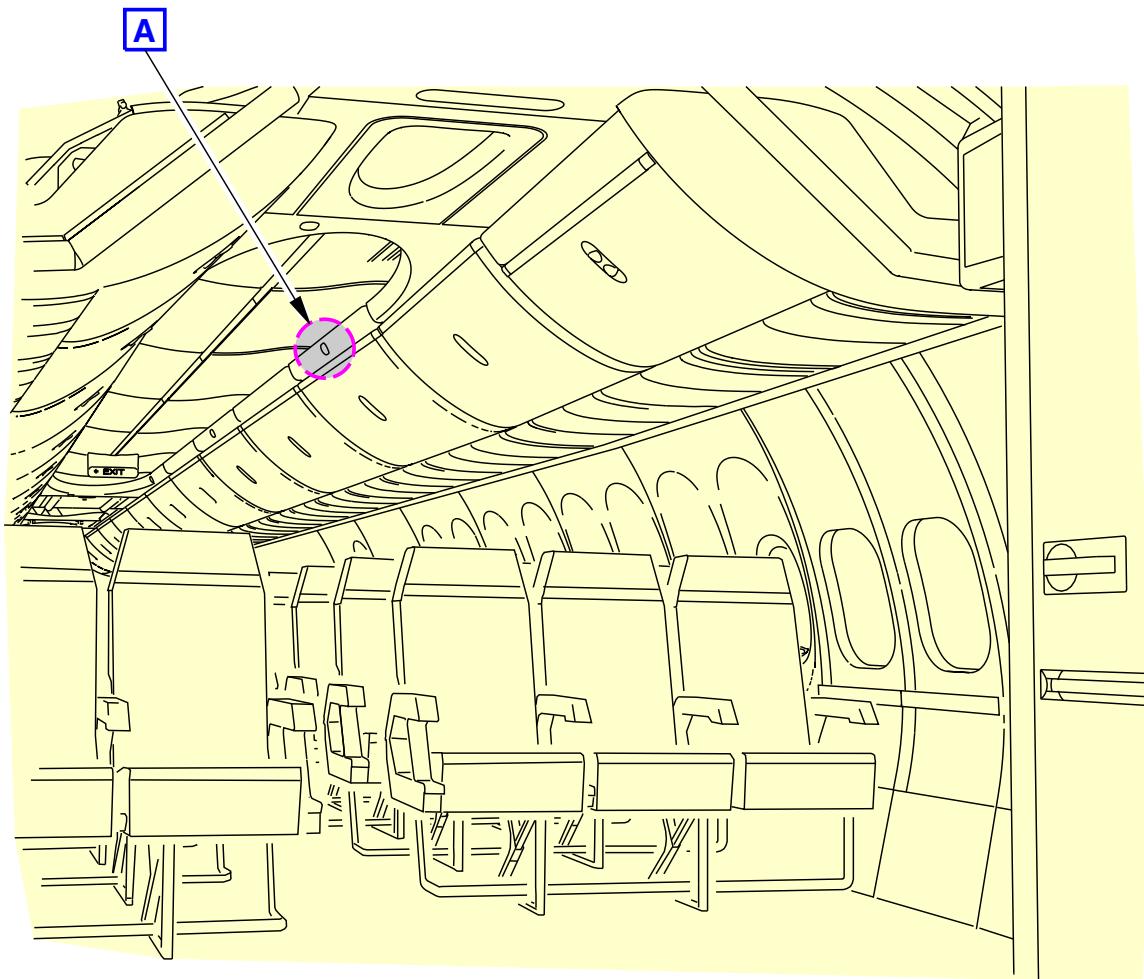
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PASSENGER COMPARTMENT



2178141 S0000480800\_V2

**Emergency Aisle Light (EAL) - Assembly Replacement**  
**Figure 204/33-51-03-990-805 (Sheet 1 of 2)**

EFFECTIVITY  
LOM 427-434, 437-447, 450-999

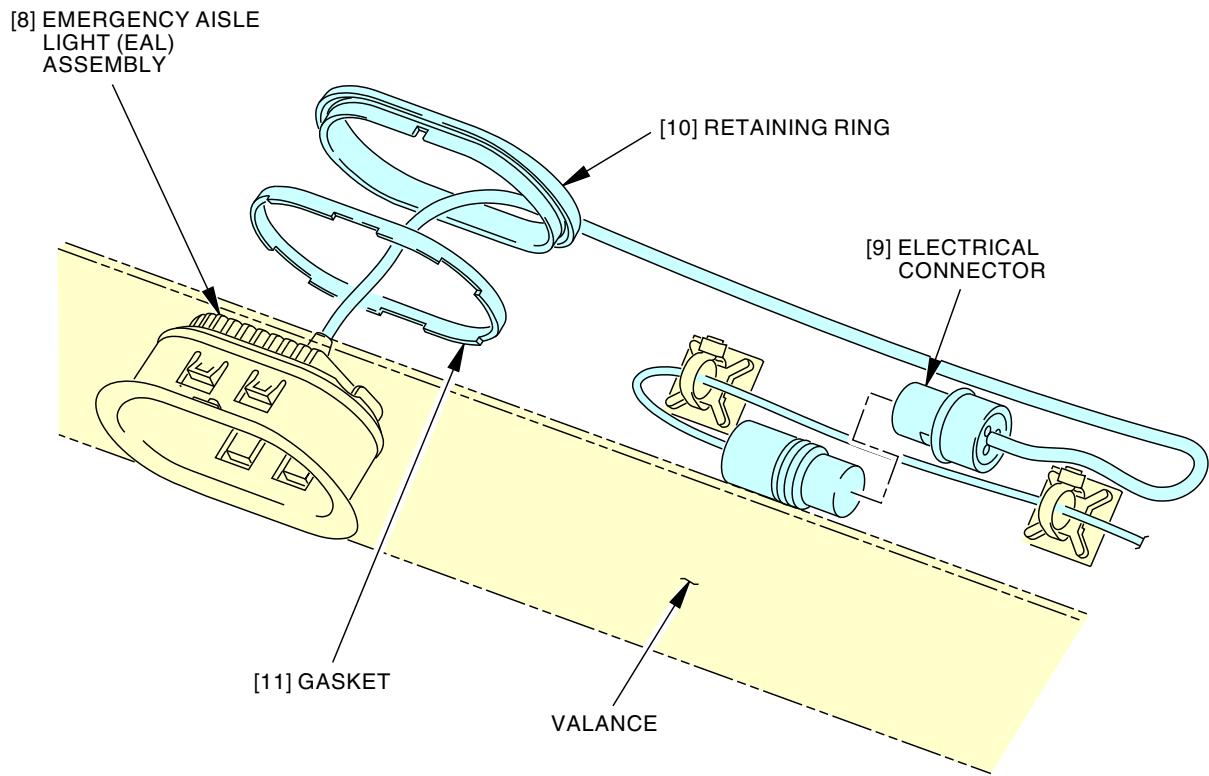
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**BOEING**  
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**EMERGENCY AISLE LIGHT (EAL)  
(EXAMPLE)**

**A**

2178269 S0000480801\_V2

**Emergency Aisle Light (EAL) - Assembly Replacement**  
Figure 204/33-51-03-990-805 (Sheet 2 of 2)

EFFECTIVITY  
LOM 427-434, 437-447, 450-999

**33-51-03**

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SLIDE/OVERWING LIGHTS - MAINTENANCE PRACTICES

**1. General**

- A. This procedure has these tasks:
- (1) Slide/Overwing Light - Lamp Replacement
  - (2) Slide/Overwing Light - Light Assembly Replacement

**TASK 33-51-04-960-801**

**2. Slide/Overwing Light - Lamp Replacement**

(Figure 201)

**A. General**

- (1) This task includes all exterior emergency lights. The lights are installed on the fuselage adjacent to the doors and over the wings.

**B. References**

Reference	Title
27-51-00-040-801	Trailing Edge Flap System Deactivation (P/B 201)
27-51-00-440-801	Trailing Edge Flap System Reactivation (P/B 201)
27-81-00-040-801	Leading Edge Flaps and Slats Deactivation (P/B 201)
27-81-00-440-801	Leading Edge Flaps and Slats - Activation (P/B 201)
WDM 33-51-12	Wiring Diagram Manual
WDM 33-51-14	Wiring Diagram Manual

**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-659	Platform - Maintenance Lift, 3 ft Minimum Height, 12.5 ft Maximum Height Part #: 1135-8000 Supplier: 00994 Opt Part #: 8662-010 Supplier: 00994
COM-2480	Platform - Mobile Elevating Work Platform SJ III Series Part #: SJIII 4726 Supplier: 3AF08 Part #: SJIII 4732 Supplier: 3AF08 Opt Part #: SJIII 4620 Supplier: 3AF08 Opt Part #: SJIII 4626 Supplier: 3AF08 Opt Part #: SJIII 4632 Supplier: 3AF08

**D. Consumable Materials**

Reference	Description	Specification
G02309	Material - Moldable Plastic Shim	BMS8-338

**E. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
4	Lamp	33-51-04-06A-075	LOM ALL
8	Lamp	33-51-00-52-075	LOM ALL



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F. Location Zones

Zone	Area
200	Upper Half of Fuselage

G. Slide/Overwing Light Lamp Replacement

SUBTASK 33-51-04-860-001

- (1) Make sure that the pilots emergency light switch, on the P5 overhead panel, is set to the OFF mode.

SUBTASK 33-51-04-860-002

- (2) Make sure that the attendants emergency light switch in the passenger compartment is set to the NORMAL mode.

SUBTASK 33-51-04-040-001

- (3) If it is necessary, deactivate the applicable flap system:



**WARNING** DO THE DEACTIVATION PROCEDURE FOR THE TRAILING EDGE FLAP BEFORE YOU DO WORK ON THE FLAP SYSTEM. THE FLAPS MOVE QUICKLY. THEY CAN CAUSE INJURIES TO PERSONNEL, AND DAMAGE TO EQUIPMENT.

- (a) Do this task: Trailing Edge Flap System Deactivation, TASK 27-51-00-040-801.



**WARNING** DO THE DEACTIVATION PROCEDURE FOR THE LEADING EDGE FLAPS. THE ACCIDENTAL MOVEMENT OF THE FLAPS CAN CAUSE INJURY TO PERSONS AND DAMAGE TO EQUIPMENT.

- (b) Do this task: Leading Edge Flaps and Slats Deactivation, TASK 27-81-00-040-801.

SUBTASK 33-51-04-480-001

- (4) If it is necessary, get access to the applicable slide/overwing light with a ladder, work platform, COM-2480, or maintenance platform, COM-659.

SUBTASK 33-51-04-960-001



**WARNING** DO NOT TOUCH THE SOCKET OF THE METAL END OF THE LAMP. WHEN ELECTRICAL POWER IS SUPPLIED TO THE LIGHT, ELECTRICAL SHOCK CAN OCCUR.

- (5) Do these steps to replace the applicable lamp (WDM 33-51-12 thru WDM 33-51-14):

- (a) Loosen the fasteners [2] or fasteners [6] and remove the lens assembly [3] or lens assembly [7].

NOTE: The lanyard [1] or [5], stays connected.

- (b) Remove the lamp [4] or lamp [8] from the socket [17].

- 1) Remove the screw [15] and washer [16] that attach the lamp [4] or lamp [8] to the socket with the retainer.

- (c) Replace the lamp [4] or lamp [8].

- (d) Install the lamp [4] or lamp [8] to the socket [17].

- 1) Install the screw [15] and washer [16] that attach the lamp [4] or lamp [8] to the socket with the retainer.

- (e) If the shims on the lens assembly [3] or lens assembly [7] gasket are damaged, replace them.

EFFECTIVITY  
LOM ALL

**33-51-04**



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**AIRCRAFT MAINTENANCE MANUAL**

- 1) Remove the unwanted shim material.
- 2) Apply new shim material, G02309, in the applicable areas of the rubber gasket.

NOTE: Use only the quantity necessary. Adjacent compartments in the rubber gasket will help contain the shim material. Keep shim material away from the lens fasteners.

- 3) Install the lens assembly [3] or lens assembly [7].
    - a) Tighten the fasteners [2] or fasteners [6] until the lens assembly [3] or lens assembly [7] is aligned with the fuselage.
  - 4) Let the shim material dry for six hours.
  - 5) Remove the lens assembly [3] or lens assembly [7].
  - 6) Clean and examine the shims.
    - a) Make sure that shim thickness is no more than 0.125 in. (0.318 cm).
- (f) Install the lens assembly [3] or lens assembly [7].
- 1) Tighten the fasteners [2] or fasteners [6].

**SUBTASK 33-51-04-080-001**

- (6) Remove the ladders, work platform, COM-2480, or maintenance platform, COM-659.

**SUBTASK 33-51-04-440-001**

- (7) If deactivated, activate the flap system:
  - (a) Do this task: Trailing Edge Flap System Reactivation, TASK 27-51-00-440-801.
  - (b) Do this task: Leading Edge Flaps and Slats - Activation, TASK 27-81-00-440-801.

**SUBTASK 33-51-04-710-001**

- (8) Do a test of the new lamp:

NOTE: The battery packs supply electrical power to the emergency lights. Use the lights for a minimum time to do the test.

- (a) On the P5 pilots overhead panel, or the attendant panel, set the emergency light switch to the ON mode.
  - 1) Make sure that the new lamp comes on.
- (b) Set the emergency light switch, on the P5 overhead panel, to the OFF mode or the emergency light switch on the attendant panel to the NORMAL mode.
  - 1) Make sure that all emergency lights go off.

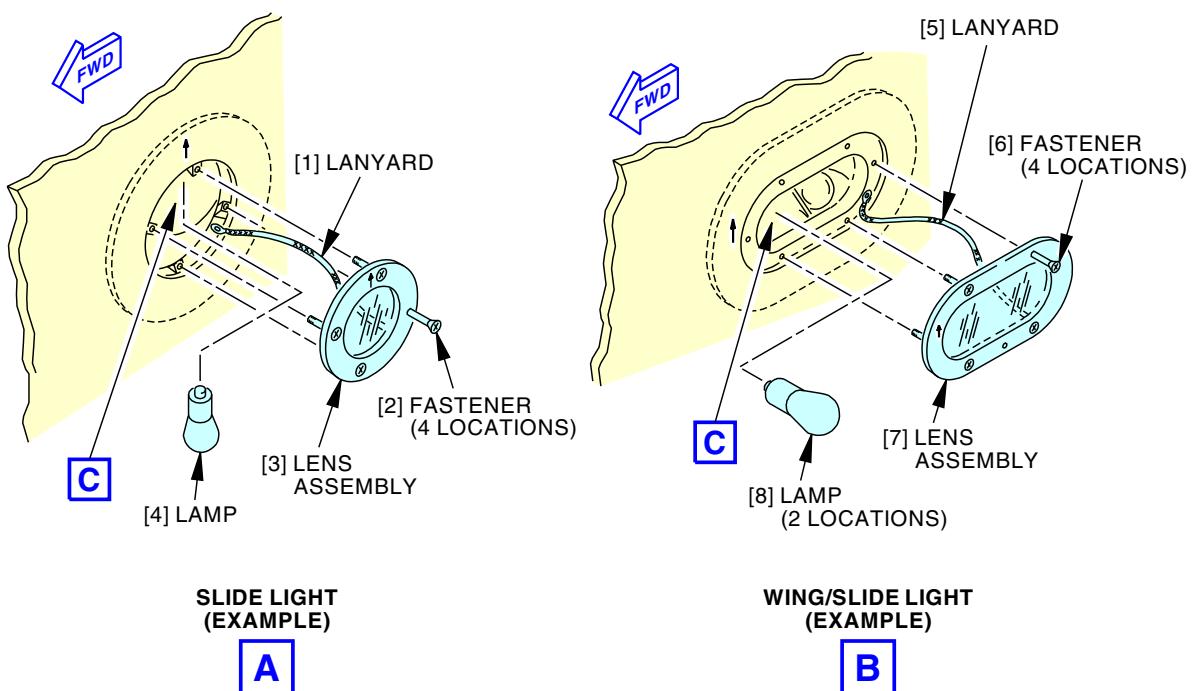
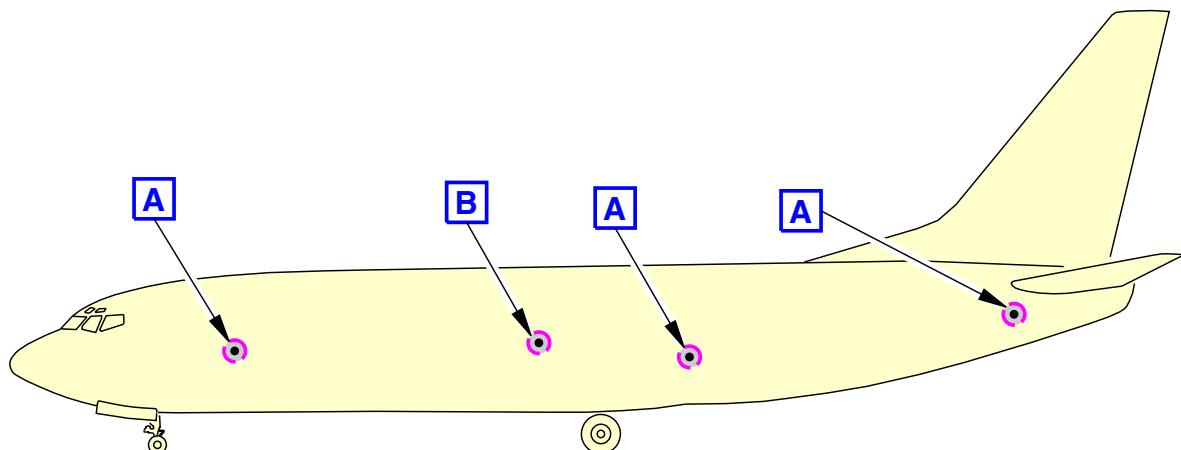
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EFFECTIVITY  
LOM ALL

**33-51-04**



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Slide Light - Lamp Replacement  
Figure 201/33-51-04-990-801 (Sheet 1 of 2)

EFFECTIVITY  
LOM ALL

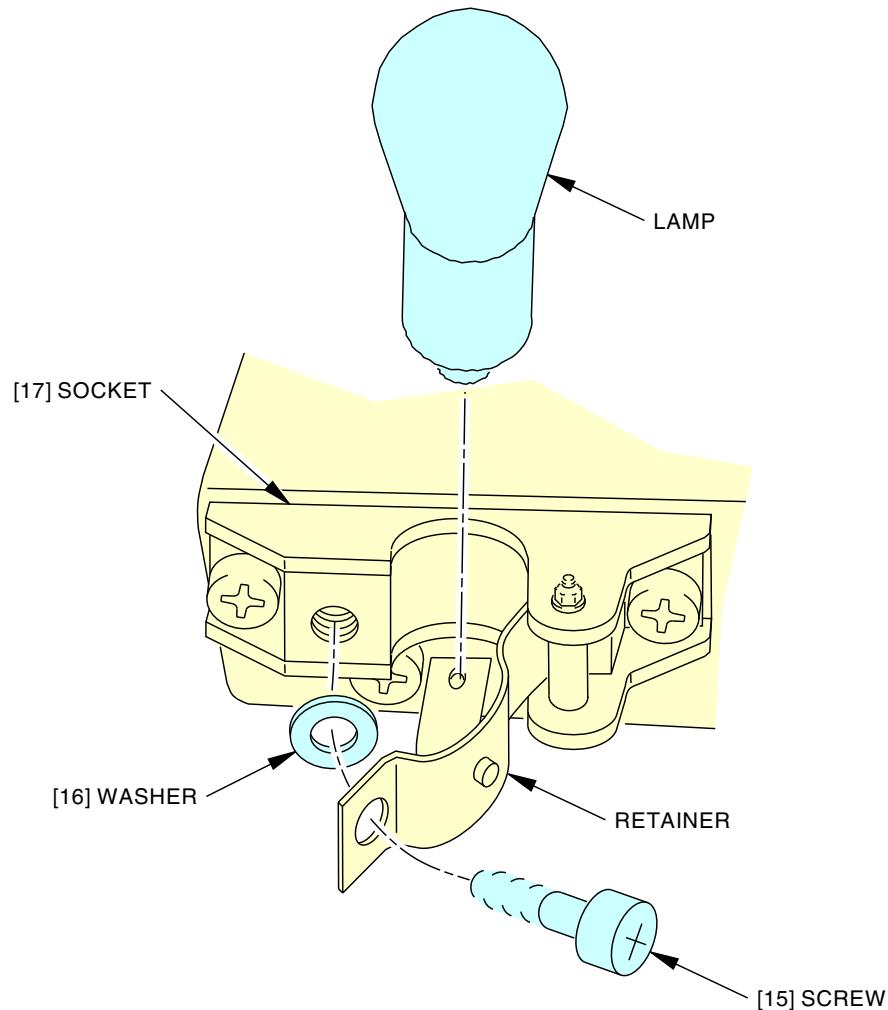
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(EXAMPLE)

C

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**Slide Light - Lamp Replacement**  
Figure 201/33-51-04-990-801 (Sheet 2 of 2)

EFFECTIVITY  
LOM ALL

**33-51-04**

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**AIRCRAFT MAINTENANCE MANUAL**

**TASK 33-51-04-960-802**

**3. Slide/Overwing Light - Light Assembly Replacement**

(Figure 202)

**A. General**

- (1) This task includes all exterior emergency lights. The lights are installed on the fuselage adjacent to the doors and over the wings.

**B. References**

Reference	Title
25-21-46-000-801	Sidewall Panel - Removal (P/B 401)
25-21-46-400-801	Sidewall Panel - Installation (P/B 401)
25-31-41-000-801-005	Galley No. 4 - Removal (P/B 401)
25-31-41-400-801-005	Galley No. 4 - Installation (P/B 401)
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)
27-51-00-040-801	Trailing Edge Flap System Deactivation (P/B 201)
27-51-00-440-801	Trailing Edge Flap System Reactivation (P/B 201)
27-81-00-040-801	Leading Edge Flaps and Slats Deactivation (P/B 201)
27-81-00-440-801	Leading Edge Flaps and Slats - 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-659	Platform - Maintenance Lift, 3 ft Minimum Height, 12.5 ft Maximum Height Part #: 1135-8000 Supplier: 00994 Opt Part #: 8662-010 Supplier: 00994
COM-2480	Platform - Mobile Elevating Work Platform SJ III Series Part #: SJIII 4726 Supplier: 3AF08 Part #: SJIII 4732 Supplier: 3AF08 Opt Part #: SJIII 4620 Supplier: 3AF08 Opt Part #: SJIII 4626 Supplier: 3AF08 Opt Part #: SJIII 4632 Supplier: 3AF08

**D. Consumable Materials**

Reference	Description	Specification
A50231	Sealant - Pressure And Environmental - Chromate Type	BMS5-95 Class B
B00148	Solvent - Methyl Ethyl Ketone (MEK)	ASTM D740
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
11	Light assembly	33-51-00-03-020	LOM ALL



**33-51-04**



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(Continued)

AMM Item	Description	AIPC Reference	AIPC Effectivity
11 (cont.)		33-51-04-01A-005	LOM ALL
		33-51-04-02A-010	LOM ALL
		33-51-04-03A-005	LOM ALL

**F. Location Zones**

Zone	Area
200	Upper Half of Fuselage

**G. Slide/Overwing Light - Light Assembly Replacement**

SUBTASK 33-51-04-010-001

- (1) Remove the applicable sidewall panel to get access to the light assembly [11] from the inside of the cabin or cargo area.
  - (a) Do one of these tasks:
    - 1) Sidewall Panel - Removal, TASK 25-21-46-000-801 or
    - 2) Cargo Compartment Sidewall Lining - Removal, TASK 25-52-06-000-801.
  - (b) Remove the trim flange from galley 4B to get access to the light assembly [11] from the inside of the passenger compartment (TASK 25-31-41-000-801-005).

SUBTASK 33-51-04-020-001

- (2) From the inside of the airplane, disconnect the electrical connector [14] from the light assembly [11].

SUBTASK 33-51-04-040-003

- (3) If it is necessary, deactivate the applicable flap system:



**WARNING** DO THE DEACTIVATION PROCEDURE FOR THE TRAILING EDGE FLAP BEFORE YOU DO WORK ON THE FLAP SYSTEM. THE FLAPS MOVE QUICKLY. THEY CAN CAUSE INJURIES TO PERSONNEL, AND DAMAGE TO EQUIPMENT.

- (a) Do this task: Trailing Edge Flap System Deactivation, TASK 27-51-00-040-801.



**WARNING** DO THE DEACTIVATION PROCEDURE FOR THE LEADING EDGE FLAPS. THE ACCIDENTAL MOVEMENT OF THE FLAPS CAN CAUSE INJURY TO PERSONS AND DAMAGE TO EQUIPMENT.

- (b) Do this task: Leading Edge Flaps and Slats Deactivation, TASK 27-81-00-040-801.

SUBTASK 33-51-04-480-002

- (4) If it is necessary, get access to the applicable slide/overwing light with a ladder, work platform, COM-2480, or maintenance platform, COM-659.

SUBTASK 33-51-04-020-002

- (5) Loosen the bolts [12] and collars [13] to remove the light assembly [11].

SUBTASK 33-51-04-110-001

- (6) Clean the fay surface bonding area of the contact surface with solvent, B00148, and a clean cotton wiper, G00034.

SUBTASK 33-51-04-160-001

- (7) Rub dry with a clean, dry cotton wiper, G00034.

EFFECTIVITY
LOM ALL

**33-51-04**



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SUBTASK 33-51-04-160-002

- (8) Continue to clean and dry the fay surface bonding area until the dry cotton wiper, G00034, stays clean.

SUBTASK 33-51-04-390-001

- (9) Apply sealant, A50231, to the contact surface of the light assembly [11] housing.

SUBTASK 33-51-04-390-002

- (10) Apply sealant, A50231, to the shank and threads of the bolts [12].

SUBTASK 33-51-04-420-001

- (11) Install the light assembly [11] on the aircraft skin using the bolts [12] and collars [13].
- (a) Make sure that sealant, A50231, is continuously squeezed out along the edges of the light assembly [11] housing.
  - (b) If there are gaps, bubbles, or voids in sealant, A50231, squeeze out, then disassemble and apply more sealant, A50231.
  - (c) Shape a squeezed out sealant, A50231, into a fillet seal.
  - (d) As an option, remove an extra squeezed out sealant, A50231.
    - 1) Make sure that the sealant, A50231 is flush with the mating part edges.

SUBTASK 33-51-04-420-002

- (12) From the inside of the airplane, connect the electrical connector [14] to the light assembly [11].

SUBTASK 33-51-04-710-002

- (13) Do a test of the light assembly [11]:

NOTE: The battery packs supply electrical power to the emergency lights. Use the lights for a minimum amount of time to do the test.

- (a) On the P5 overhead panel, or the attendant control panel, set the emergency light switch to the ON mode.
  - 1) Make sure that the applicable emergency light comes on.
- (b) Set the emergency light switch, on the P5 overhead panel, to the OFF mode or the emergency light switch on the attendant panel to the NORMAL mode.
  - 1) Make sure that the applicable emergency lights go off.

## H. Put the Airplane Back to Its Usual Condition

SUBTASK 33-51-04-410-001

- (1) Install the applicable sidewall panel that was removed to get access to the light assembly [11] from the inside of the cabin or cargo area.
- (a) Do one of these tasks:
    - 1) Sidewall Panel - Installation, TASK 25-21-46-400-801 or
    - 2) Cargo Compartment Sidewall Lining - Installation, TASK 25-52-06-400-801.
  - (b) Install the trim flange to galley 4B from the inside of the passenger compartment (TASK 25-31-41-400-801-005).

SUBTASK 33-51-04-080-002

- (2) Remove the ladders, work platform, COM-2480, or maintenance platform, COM-659.

SUBTASK 33-51-04-440-003

- (3) If deactivated, activate the flap system:

- (a) Do this task: Trailing Edge Flap System Reactivation, TASK 27-51-00-440-801.

EFFECTIVITY  
LOM ALL

**33-51-04**



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(b) Do this task: Leading Edge Flaps and Slats - Activation, TASK 27-81-00-440-801.

———— END OF TASK ————

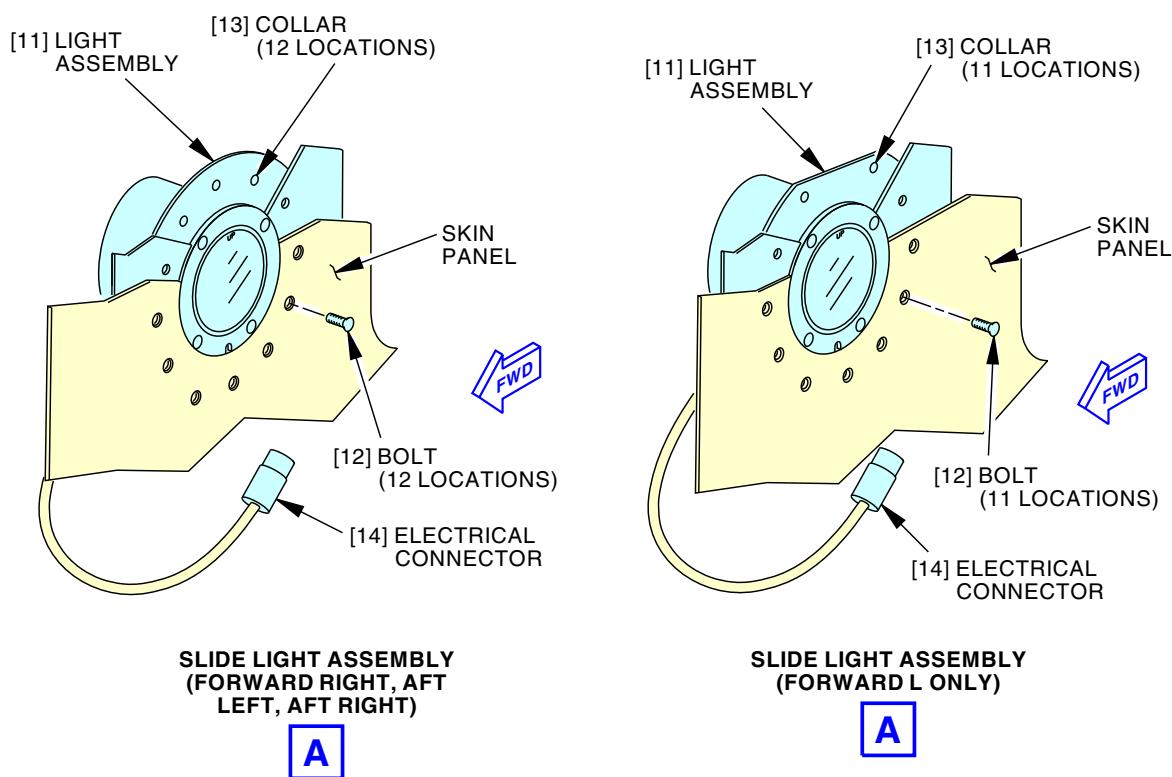
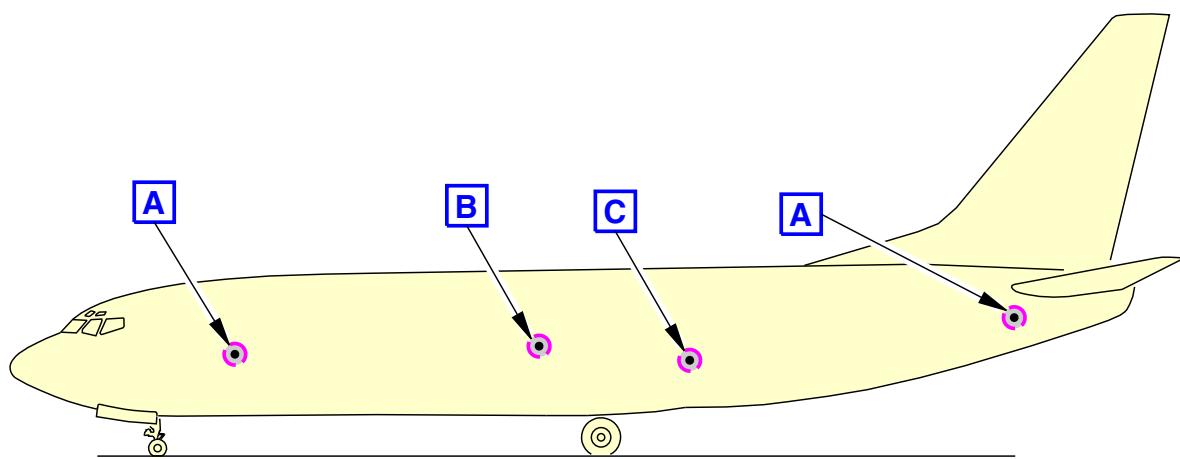
— EFFECTIVITY —  
**LOM ALL**

**33-51-04**

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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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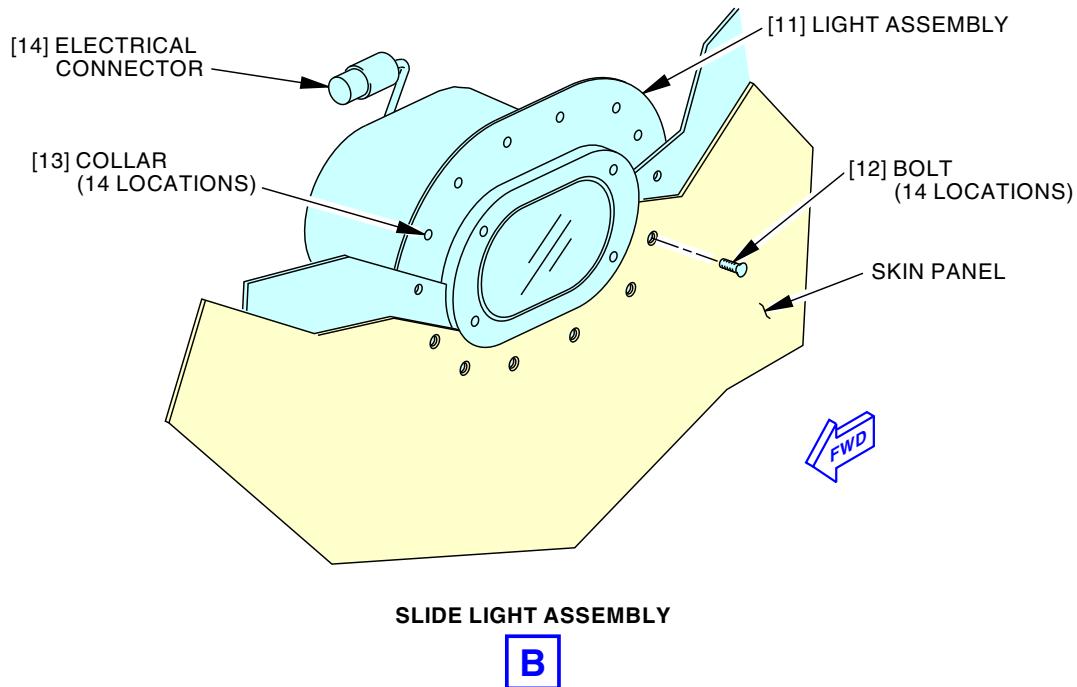
2106568 S0000449797\_V3

**Slide Light - Light Assembly Replacement**  
**Figure 202/33-51-04-990-802 (Sheet 1 of 2)**

 EFFECTIVITY  
**LOM ALL**
**33-51-04**

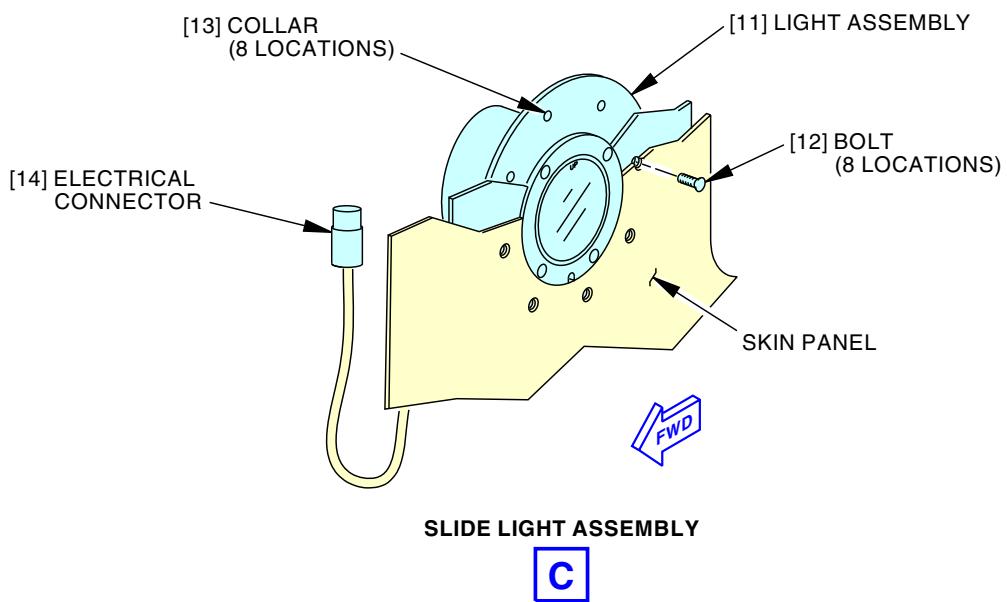


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SLIDE LIGHT ASSEMBLY

B



SLIDE LIGHT ASSEMBLY

C

2106624 S0000449870\_V2

Slide Light - Light Assembly Replacement  
Figure 202/33-51-04-990-802 (Sheet 2 of 2)

EFFECTIVITY  
LOM ALL

**33-51-04**

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POWER SUPPLIES - MAINTENANCE PRACTICES

**1. General**

- A. This procedure has these tasks:

NOTE: See WDM 33-51-11 thru 33-51-22 for Power Supplies/Battery Packs quantity and locations.

- (1) Power Supply - Charge the Battery Packs
- (2) Power Supply - Fuse Replacement
- (3) Power Supply - Battery Pack Replacement
- (4) Power Supply - Power Supply Replacement
- (5) Power Supply - Battery Pack Capacity Check
- (6) Power Supply - Battery Pack Deep-Cycle Procedure

**TASK 33-51-06-610-802**

**2. Power Supply - Charge the Battery Packs**

**A. References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)

**B. Location Zones**

Zone	Area
200	Upper Half of Fuselage

**C. Power Supply Charge the Battery Packs**

SUBTASK 33-51-06-860-007

- (1) Make sure that the pilots emergency light switch, on the P5 overhead panel, is set to the OFF mode.

SUBTASK 33-51-06-860-008

- (2) Make sure that the attendants emergency light switch in the passenger compartment is set to the NORMAL mode.

SUBTASK 33-51-06-860-009

- (3) Charge the battery packs (TASK 24-22-00-860-811)

NOTE: The battery packs in the emergency light power supplies are continuously charged when electrical power is supplied to the airplane, unless the emergency light switches are set to the on mode. If the battery packs are fully drained, the time necessary to charge them is 90 minutes. If the battery pack is not fully discharged at initiation of the charge, the object will detect the fully charged condition, ending the charge mode and entering the maintenance phase prior to the 90 minutes re-charge time.

SUBTASK 33-51-06-860-010

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

———— END OF TASK ————

EFFECTIVITY  
LOM ALL

**33-51-06**



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**TASK 33-51-06-960-804**

**3. Power Supply - Fuse Replacement**

(Figure 201)

**A. References**

Reference	Title
WDM 33-51-11 thru 33-51-22	Wiring Diagram Manual

**B. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
4	Battery pack	33-51-06-02-041	LOM 416
		33-51-06-04-030	LOM 402, 404, 406, 407, 411, 422, 425, 426
		33-51-06-04C-030	LOM 412, 415, 416, 420, 423, 424
		33-51-06-05A-025	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426
		33-51-06-12-046	LOM 402, 404, 406, 407, 411, 412, 415, 420, 422-434, 437-447, 450-999
		33-51-06-30-025	LOM 427-434, 437-447, 450-465
		33-51-06-31-050	LOM 427-434, 437-447, 450-999
		33-51-06-02-043	LOM 416
		33-51-06-04-048	LOM 402, 404, 406, 407, 411, 422, 425, 426
		33-51-06-04C-038	LOM 412, 415, 416, 420, 423, 424
8	Fuse	33-51-06-04C-050	LOM 412, 415, 416, 420, 423, 424
		33-51-06-05A-032	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426
		33-51-06-12-048	LOM 402, 404, 406, 407, 411, 412, 415, 420, 422-434, 437-447, 450-999
		33-51-06-30-040	LOM 427-434, 437-447, 450-465
		33-51-06-31-065	LOM 427-434, 437-447, 450-999

**C. Location Zones**

Zone	Area
200	Upper Half of Fuselage



**33-51-06**



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

**D. Power Supply Fuse Replacement**

SUBTASK 33-51-06-860-026

- (1) Make sure that the pilots emergency light switch, on the P5 overhead panel, is set to the OFF mode.

SUBTASK 33-51-06-860-029

- (2) Make sure that the emergency exit light switch, on the P14 aft attendant panel, is set to the OFF mode.

SUBTASK 33-51-06-860-011

- (3) Open the applicable circuit breaker and install the safety tag:

**CAPT Electrical System Panel, P18-3**

Row   Col   Number   Name

LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-999			
A	10	C01357	PASS CABIN LIGHTING EMER CHGR L AFT
<b>LOM ALL</b>			
A	11	C00250	PASS CABIN LIGHTING EMER CHGR FWD
LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-999			
B	10	C01358	PASS CABIN LIGHTING EMER CHGR R AFT

**F/O Electrical System Panel, P6-11**

Row   Col   Number   Name

LOM 427-434, 437-447, 450-999			
A	9	C01949	CABIN EMER LIGHTS
<b>LOM ALL</b>			

SUBTASK 33-51-06-010-003

- (4) Get access to the power supply [5].

NOTE: Use the WDM to identify power supply locations (WDM 33-51-11 thru 33-51-22).

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426; AIRPLANES WITH THE POWER SUPPLY INSTALLED NEAR THE FORWARD ENTRY DOOR**

- (a) Lower the left side of the entry light.

**LOM 427-434, 437-447, 450-999; AIRPLANES WITH A POWER SUPPLY INSTALLED NEAR THE FORWARD ENTRY DOOR**

- (b) Open the applicable access panel.  
(c) Support the battery access door.  
(d) Remove the screws [9] and washers [10].  
(e) Open the battery access door.

**LOM ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED NEAR THE AFT ENTRY DOOR**

- (f) Open the access panel in the lowered ceiling panel.

**LOM ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED ALONG THE SIDEWALL NEAR THE FLOOR**

- (g) Remove the sidewall carpet riser.

**LOM ALL**

SUBTASK 33-51-06-960-004

- (5) Do these steps to replace the fuse [8]:

EFFECTIVITY
LOM ALL

**33-51-06**



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**AIRCRAFT MAINTENANCE MANUAL**

- (a) Loosen the fasteners [3] on the battery pack [4].



**KEEP THE BATTERY PACK PARALLEL TO THE TOP SURFACE OF THE CHARGER WHEN YOU LIFT IT. DAMAGE TO THE TWO PLASTIC PROJECTIONS CAN OCCUR IF YOU DO NOT OBEY THIS INSTRUCTION.**

- (b) Lift away the battery pack [4] to disconnect its pins from the base of the power supply [5].  
(c) Replace each damaged fuse [8].  
(d) Connect the pins on the battery pack [4] with the base of the power supply [5].  
(e) Tighten the fasteners [3].

SUBTASK 33-51-06-710-003

- (6) Do a test of the new fuse [8].

- (a) Remove the safety tag and close the applicable circuit breaker:

**CAPT Electrical System Panel, P18-3**

Row   Col   Number   Name

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

    A     10    C01357    PASS CABIN LIGHTING EMER CHGR L AFT

**LOM ALL**

    A     11    C00250    PASS CABIN LIGHTING EMER CHGR FWD

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

    B     10    C01358    PASS CABIN LIGHTING EMER CHGR R AFT

**F/O Electrical System Panel, P6-11**

Row   Col   Number   Name

**LOM 427-434, 437-447, 450-999**

    A     9     C01949    CABIN EMER LIGHTS

**LOM ALL**

- (b) Set the test switch [7] to the ON mode.

- (c) Make sure that the lights and signs connected to the power supply [5] come on.

NOTE: Use the WDM to identify the individual lights and signs (WDM 33-51-11 thru 33-51-22).

- (d) After approximately one minute, make sure that all emergency lights and signs go off automatically.

**E. Put the Airplane Back to Its Usual Condition**

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426; AIRPLANES WITH THE POWER SUPPLY INSTALLED NEAR THE FORWARD ENTRY DOOR**

SUBTASK 33-51-06-410-006

- (1) Install the entry light.

**LOM 427-434, 437-447, 450-999; AIRPLANES WITH A POWER SUPPLY INSTALLED NEAR THE FORWARD ENTRY DOOR**

SUBTASK 33-51-06-410-018

- (2) Close the battery access door as follows:

- (a) Close and hold the battery access door.

EFFECTIVITY  
**LOM ALL**

**33-51-06**



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**LOM 427-434, 437-447, 450-999; AIRPLANES WITH A POWER SUPPLY INSTALLED NEAR THE FORWARD ENTRY DOOR (Continued)**

- (b) Install the screws [9] and washers [10] through the clip and to the battery access door.
- (c) Tighten the screws [9].

SUBTASK 33-51-06-410-019

- (3) Close the access panel.

**LOM ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED NEAR THE AFT ENTRY DOOR**

SUBTASK 33-51-06-410-007

- (4) Close the access panel in the lowered ceiling panel.

**LOM ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED ALONG THE SIDEWALL NEAR THE FLOOR**

SUBTASK 33-51-06-410-008

- (5) Install the sidewall carpet riser.

**LOM ALL**

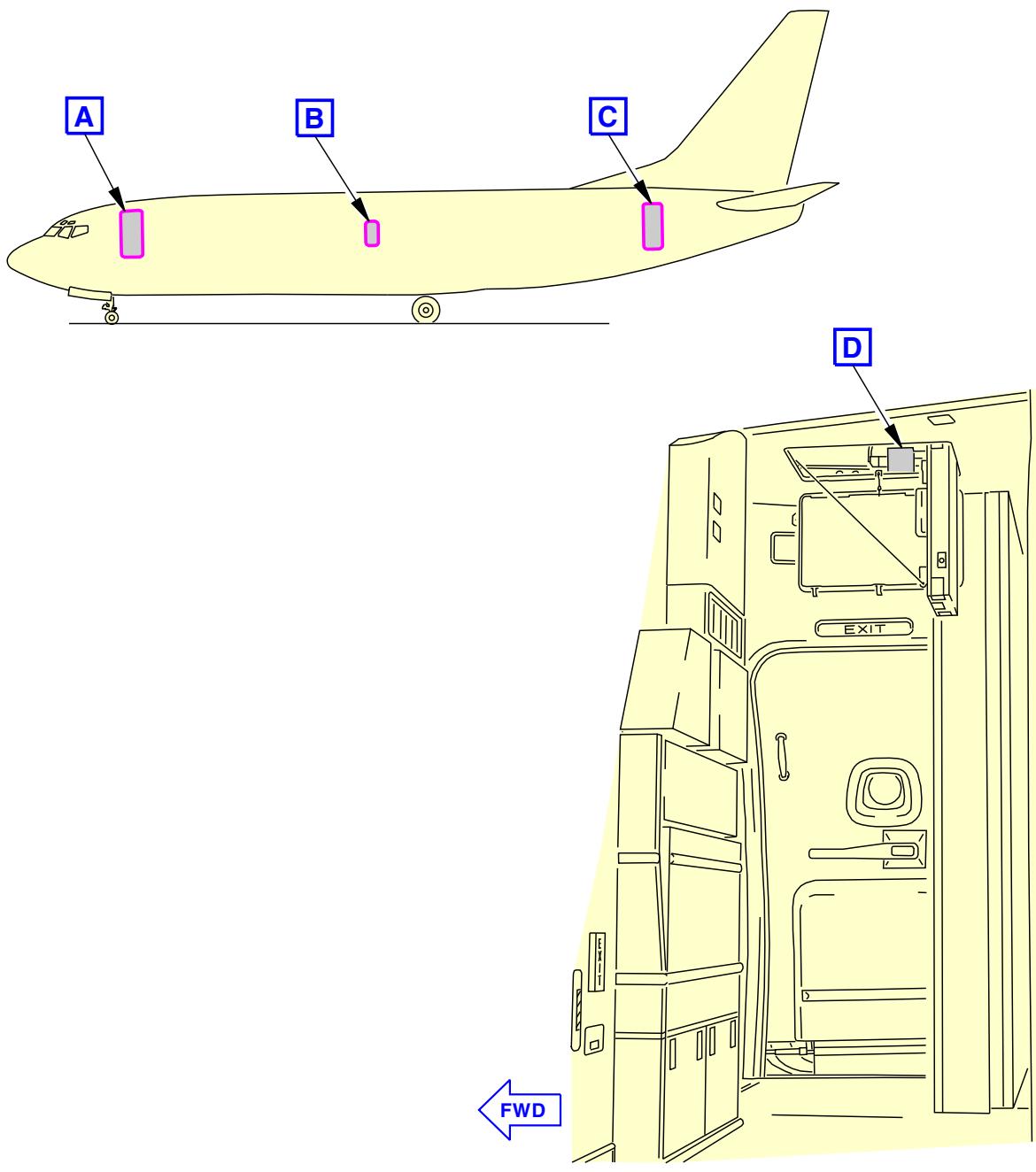
———— END OF TASK ————

EFFECTIVITY  
**LOM ALL**

**33-51-06**



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VIEW THROUGH THE  
FORWARD PASSENGER DOOR

A

G75434 S0006576396\_V2

**Power Supply - Power Supply/Battery Pack/Fuse Replacement**  
Figure 201/33-51-06-990-802 (Sheet 1 of 7)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

**33-51-06**

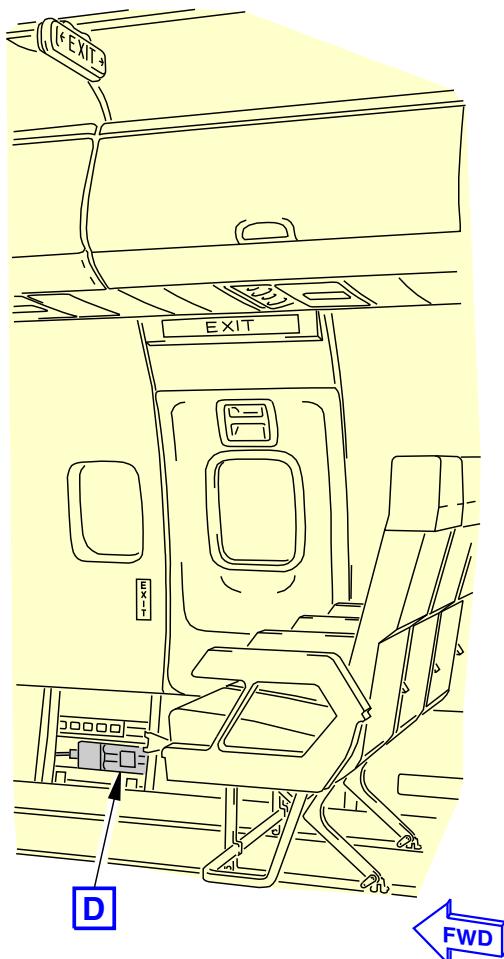
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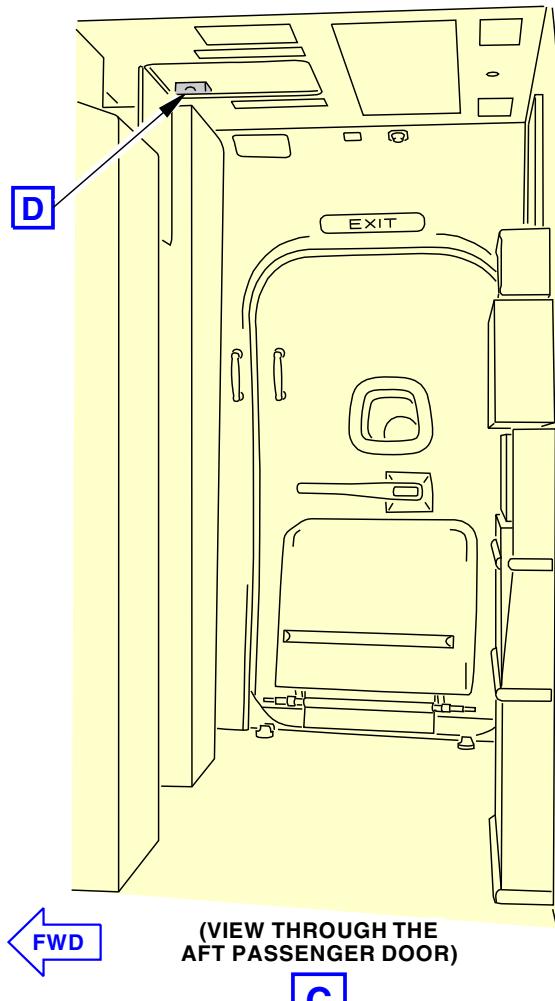


737-600/700/800/900  
AIRCRAFT MAINTENANCE MANUAL



OVERWING ESCAPE HATCH  
(EXAMPLE)

B



(VIEW THROUGH THE  
AFT PASSENGER DOOR)

C

G75435 S0006576397\_V4

**Power Supply - Power Supply/Battery Pack/Fuse Replacement**  
**Figure 201/33-51-06-990-802 (Sheet 2 of 7)**

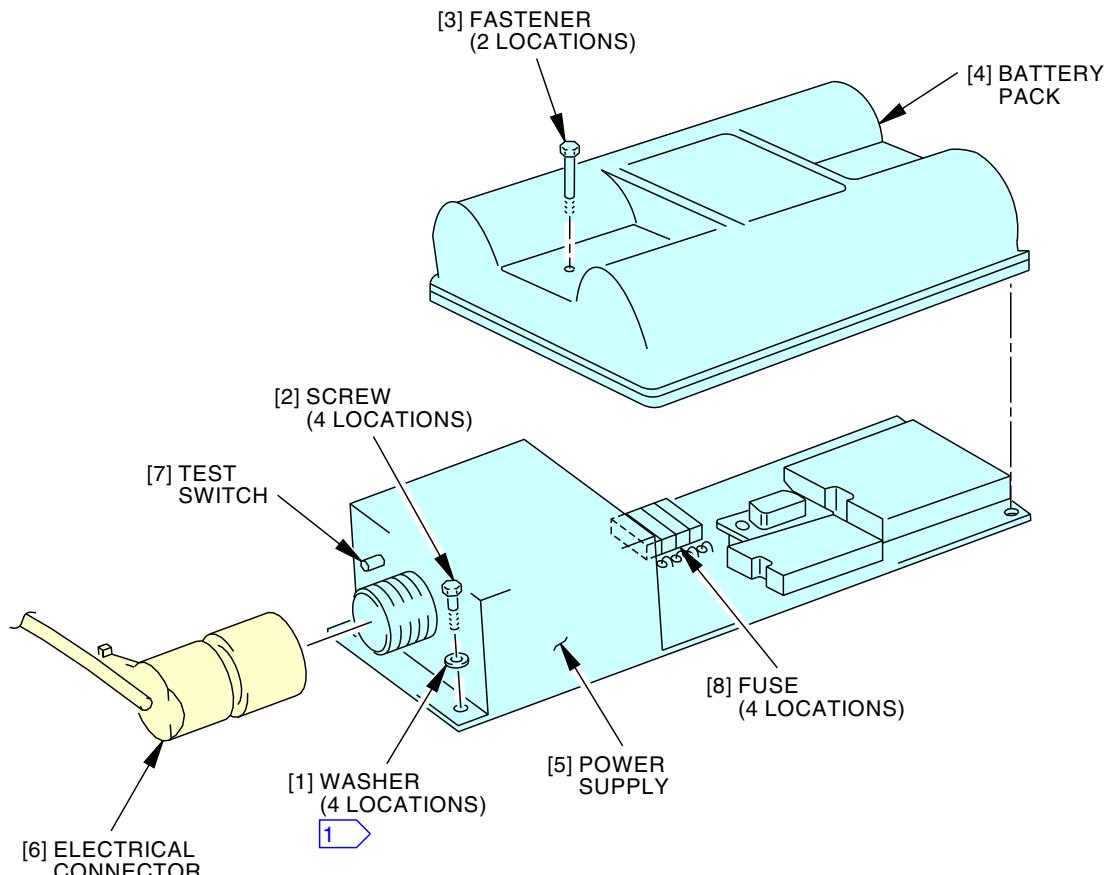
EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

**33-51-06**

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POWER SUPPLY  
(EXAMPLE)

D

**1** IF APPLICABLE

F57240 S0006576398\_V4

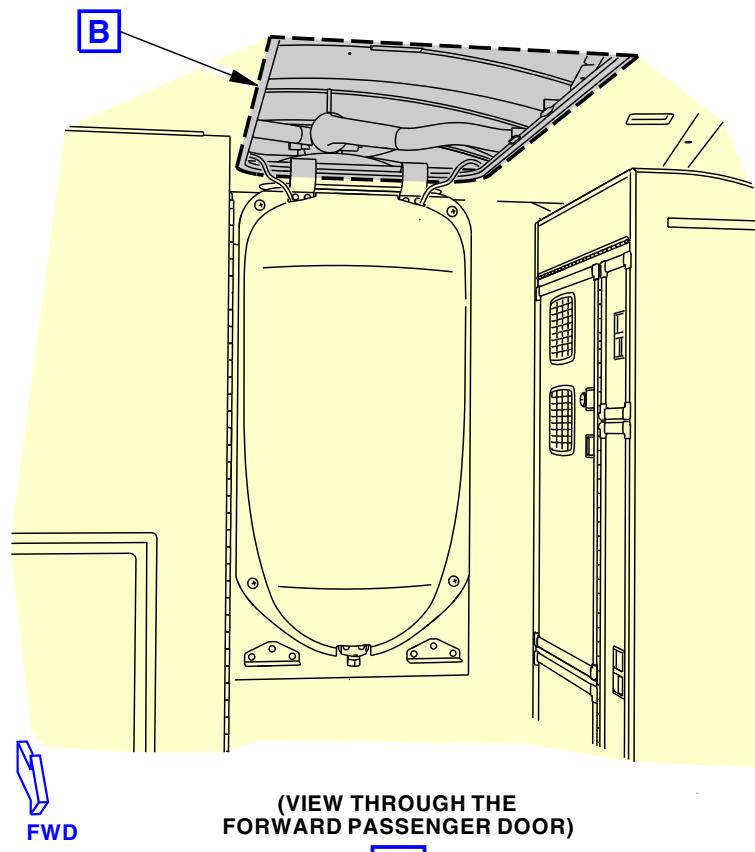
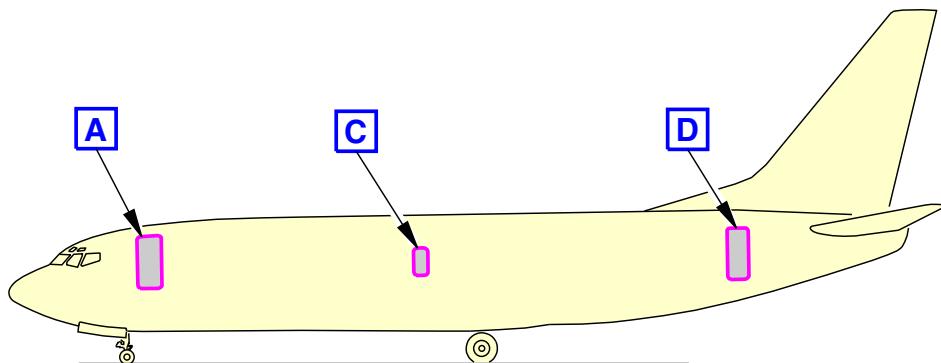
**Power Supply - Power Supply/Battery Pack/Fuse Replacement**  
Figure 201/33-51-06-990-802 (Sheet 3 of 7)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426

**33-51-06**



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2983456 S0000761312\_V2

**Power Supply - Power Supply/Battery Pack/Fuse Replacement**  
Figure 201/33-51-06-990-802 (Sheet 4 of 7)

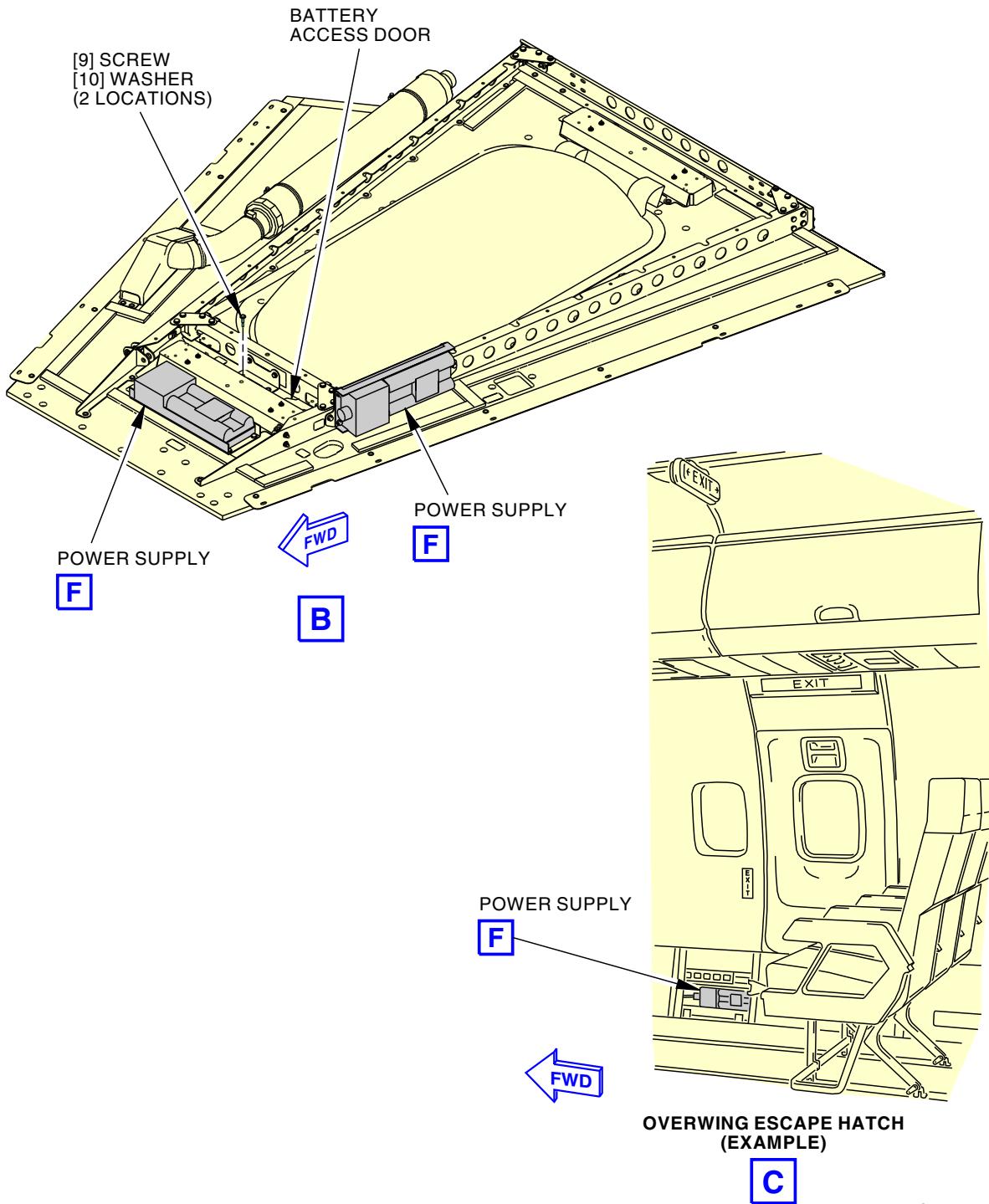
EFFECTIVITY  
LOM 427-434, 437-447, 450-999

**33-51-06**

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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2983479 S0000761313\_V2

**Power Supply - Power Supply/Battery Pack/Fuse Replacement**  
**Figure 201/33-51-06-990-802 (Sheet 5 of 7)**

EFFECTIVITY  
**LOM 427-434, 437-447, 450-999**

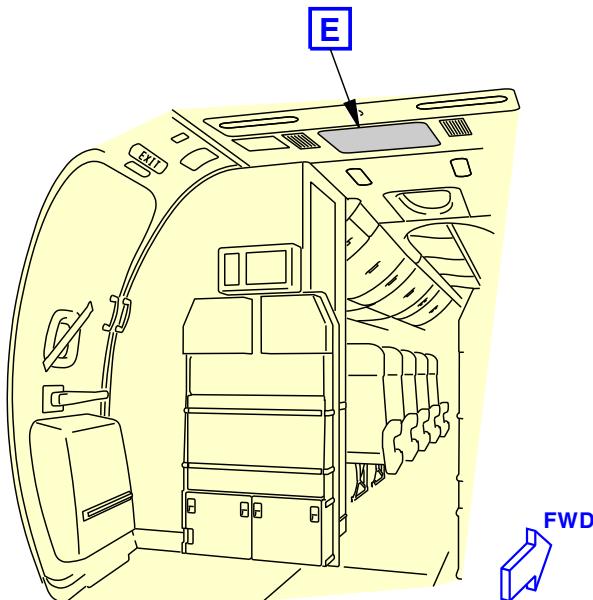
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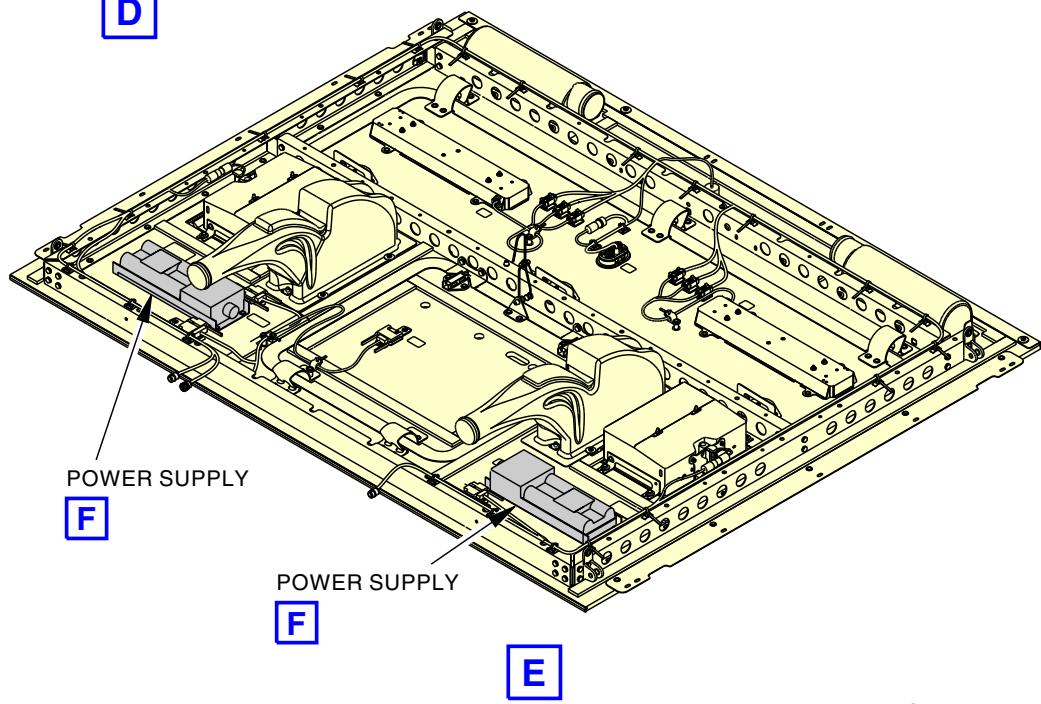
ECCN 9E991 BOEING PROPRIETARY - See title page for details



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(VIEW THROUGH THE  
AFT PASSENGER DOOR)



2983485 S0000761314\_V1

**Power Supply - Power Supply/Battery Pack/Fuse Replacement**  
Figure 201/33-51-06-990-802 (Sheet 6 of 7)

EFFECTIVITY  
LOM 427-434, 437-447, 450-999

**33-51-06**

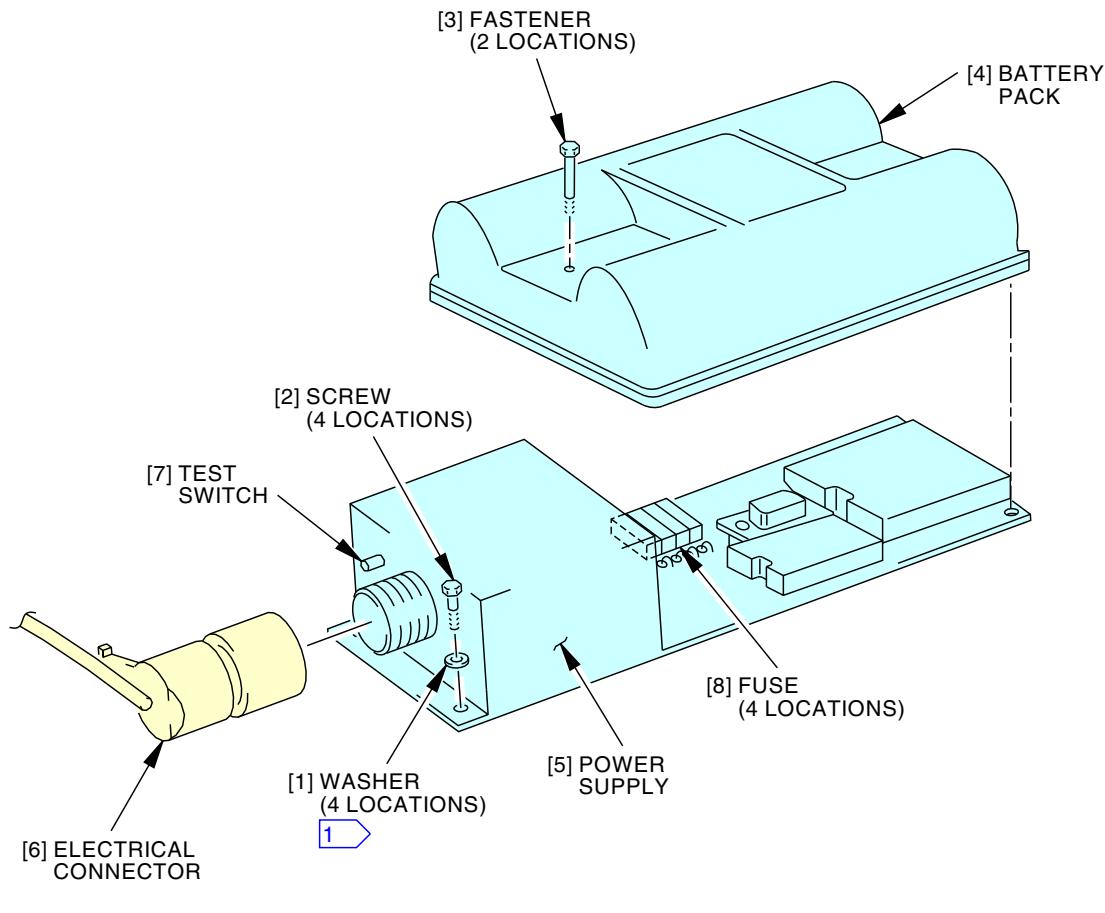
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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POWER SUPPLY (EXAMPLE)

F

1 IF APPLICABLE

2983489 S0000761315\_V2

**Power Supply - Power Supply/Battery Pack/Fuse Replacement**  
**Figure 201/33-51-06-990-802 (Sheet 7 of 7)**

EFFECTIVITY  
LOM 427-434, 437-447, 450-999

**33-51-06**

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details



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**TASK 33-51-06-960-805**

**4. Power Supply - Battery Pack Replacement**

(Figure 201)

**A. General**

- (1) When you replace the battery pack, do not discard it. Refer to the vendor instructions for possible repairs.

NOTE: Ignore the expiration dates (if installed) on these battery packs.

**B. References**

Reference	Title
WDM 33-51-11 thru 33-51-22	Wiring Diagram Manual

**C. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
4	Battery pack	33-51-06-02-041	LOM 416
		33-51-06-04-030	LOM 402, 404, 406, 407, 411, 422, 425, 426
		33-51-06-04C-030	LOM 412, 415, 416, 420, 423, 424
		33-51-06-05A-025	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426
		33-51-06-12-046	LOM 402, 404, 406, 407, 411, 412, 415, 420, 422-434, 437-447, 450-999
		33-51-06-30-025	LOM 427-434, 437-447, 450-465
		33-51-06-31-050	LOM 427-434, 437-447, 450-999

**D. Location Zones**

Zone	Area
200	Upper Half of Fuselage

**E. Power Supply Battery Pack Replacement**

SUBTASK 33-51-06-860-027

- (1) Make sure that the pilots emergency light switch, on the P5 overhead panel, is set to the OFF mode.

SUBTASK 33-51-06-860-012

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

**CAPT Electrical System Panel, P18-3**

Row   Col   Number   Name

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

A      10      C01357      PASS CABIN LIGHTING EMER CHGR L AFT

LOM ALL

A      11      C00250      PASS CABIN LIGHTING EMER CHGR FWD



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(Continued)

**CAPT Electrical System Panel, P18-3**

Row    Col    Number    Name

LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-999  
B        10      C01358     PASS CABIN LIGHTING EMER CHGR R AFT

**F/O Electrical System Panel, P6-11**

Row    Col    Number    Name

LOM 427-434, 437-447, 450-999  
A        9        C01949     CABIN EMER LIGHTS

**LOM ALL**

SUBTASK 33-51-06-010-004

- (3) Get access to the power supply [5] that contains the battery pack [4].

NOTE: Use the WDM to identify power supply locations (WDM 33-51-11 thru 33-51-22).

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426; AIRPLANES WITH THE POWER SUPPLY INSTALLED NEAR THE FORWARD ENTRY DOOR**

- (a) Lower the left side of the entry light.

**LOM 427-434, 437-447, 450-999; AIRPLANES WITH A POWER SUPPLY INSTALLED NEAR THE FORWARD ENTRY DOOR**

- (b) Open the applicable access panel.  
(c) Support the battery access door.  
(d) Remove the screws [9] and washers [10].  
(e) Open the battery access door.

**LOM ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED NEAR THE AFT ENTRY DOOR**

- (f) Open the access panel in the lowered ceiling panel.

**LOM ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED ALONG THE SIDEWALL NEAR THE FLOOR**

- (g) Remove the sidewall carpet riser.

**LOM ALL**

SUBTASK 33-51-06-960-005

- (4) Do these steps to remove the battery pack [4]:

- (a) Loosen the fasteners [3].



KEEP THE BATTERY PACK PARALLEL TO THE TOP SURFACE OF THE CHARGER WHEN YOU LIFT IT. DAMAGE TO THE TWO PLASTIC PROJECTIONS CAN OCCUR IF YOU DO NOT OBEY THIS INSTRUCTION.

- (b) Lift away the battery pack [4] to disconnect its pins from the base of the power supply [5].

SUBTASK 33-51-06-960-006

- (5) Do these steps to install the battery pack [4]:

- (a) Align the connector pins with the base of the power supply [5].  
1) Install the battery pack [4].

EFFECTIVITY  
**LOM ALL**

**33-51-06**



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- (b) Tighten the fasteners [3].

SUBTASK 33-51-06-710-004

- (6) Do a test of the new battery pack [4].

- (a) Remove the safety tag and close the applicable circuit breaker:

**CAPT Electrical System Panel, P18-3**

Row   Col   Number   Name

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

    A     10    C01357    PASS CABIN LIGHTING EMER CHGR L AFT

**LOM ALL**

    A     11    C00250    PASS CABIN LIGHTING EMER CHGR FWD

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

    B     10    C01358    PASS CABIN LIGHTING EMER CHGR R AFT

**F/O Electrical System Panel, P6-11**

Row   Col   Number   Name

**LOM 427-434, 437-447, 450-999**

    A     9     C01949    CABIN EMER LIGHTS

**LOM ALL**

- (b) Set the test switch [7] to the ON mode.

- 1) Make sure that the lights and signs connected to the battery pack [4] come on.

NOTE: Use the WDM to identify the individual lights and signs (WDM 33-51-11 thru 33-51-22).

- 2) If the lights and sign do not come on, supply electrical power to the airplane to charge the battery pack [4] (TASK 33-51-06-610-802).

NOTE: The battery packs in the emergency light power supplies are continuously charged when electrical power is supplied to the airplane, unless the emergency light switches are set to the on mode. If the battery packs are fully drained, the time necessary to charge them is 90 minutes. If the battery pack is not fully discharged at initiation of the charge, the object will detect the fully charged condition, ending the charge mode and entering the maintenance phase prior to the 90 minutes re-charge time.

- a) Do the test again.

- (c) After approximately one minute, make sure that all emergency lights and signs go off automatically.

**F. Put the Airplane Back to Its Usual Condition**

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426; AIRPLANES WITH THE POWER SUPPLY INSTALLED NEAR THE FORWARD ENTRY DOOR**

SUBTASK 33-51-06-410-010

- (1) Install the entry light.

**LOM 427-434, 437-447, 450-999; AIRPLANES WITH A POWER SUPPLY INSTALLED NEAR THE FORWARD ENTRY DOOR**

SUBTASK 33-51-06-410-024

- (2) Close the battery access door as follows:

- (a) Close and hold the battery access door.

EFFECTIVITY  
**LOM ALL**

**33-51-06**



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**LOM 427-434, 437-447, 450-999; AIRPLANES WITH A POWER SUPPLY INSTALLED NEAR THE FORWARD ENTRY DOOR (Continued)**

- (b) Install the screws [9] and washers [10] through the clip and to the battery access door.
- (c) Tighten the screws [9].

SUBTASK 33-51-06-410-021

- (3) Close the access panel.

**LOM ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED NEAR THE AFT ENTRY DOOR**

SUBTASK 33-51-06-410-011

- (4) Close the access panel in the lowered ceiling panel.

**LOM ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED ALONG THE SIDEWALL NEAR THE FLOOR**

SUBTASK 33-51-06-410-012

- (5) Install the sidewall carpet riser.

**LOM ALL**

— END OF TASK —

**TASK 33-51-06-960-806**

**5. Power Supply - Power Supply Replacement**

(Figure 201)

**A. General**

- (1) When you replace the power supply, do not discard it. Refer to the vendor instructions for possible repairs.

**B. References**

Reference	Title
WDM 33-51-11 thru 33-51-22	Wiring Diagram Manual

**C. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
5	Power supply	33-51-06-02-037	LOM 416
		33-51-06-04-015	LOM 402, 404, 406, 407, 411, 422, 425, 426
		33-51-06-04C-025	LOM 412, 415, 416, 420, 423, 424
		33-51-06-05A-015	LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426
		33-51-06-12-045	LOM 402, 404, 406, 407, 411, 412, 415, 420, 422-434, 437-447, 450-999
		33-51-06-30-015	LOM 427-434, 437-447, 450-465
		33-51-06-31-015	LOM 427-434, 437-447, 450-999

EFFECTIVITY
LOM ALL

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**D. Location Zones**

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

**E. Power Supply Replacement**

SUBTASK 33-51-06-860-028

- (1) Make sure that the pilots emergency light switch, on the P5 overhead panel, is set to the OFF mode.

SUBTASK 33-51-06-860-013

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

**CAPT Electrical System Panel, P18-3**

Row   Col   Number   Name

<b>LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-999</b>
A     10   C01357   PASS CABIN LIGHTING EMER CHGR L AFT
<b>LOM ALL</b>
A     11   C00250   PASS CABIN LIGHTING EMER CHGR FWD
<b>LOM 402, 404, 406, 407, 411, 412, 415, 416, 422-434, 437-447, 450-999</b>
B     10   C01358   PASS CABIN LIGHTING EMER CHGR R AFT

**F/O Electrical System Panel, P6-11**

Row   Col   Number   Name

<b>LOM 427-434, 437-447, 450-999</b>
A     9    C01949   CABIN EMER LIGHTS
<b>LOM ALL</b>

SUBTASK 33-51-06-010-005

- (3) Get access to the power supply [5].

NOTE: Use the WDM to identify power supply locations (WDM 33-51-11 thru 33-51-22).

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426; AIRPLANES WITH THE POWER SUPPLY INSTALLED NEAR THE FORWARD ENTRY DOOR**

- (a) Lower the left side of the entry light.

**LOM 427-434, 437-447, 450-999; AIRPLANES WITH A POWER SUPPLY INSTALLED NEAR THE FORWARD ENTRY DOOR**

- (b) Open the applicable access panel.
- (c) Support the battery access door.
- (d) Remove the screws [9] and washers [10].
- (e) Open the battery access door.

**LOM ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED NEAR THE AFT ENTRY DOOR**

- (f) Open the access panel in the lowered ceiling panel.

**LOM ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED ALONG THE SIDEWALL NEAR THE FLOOR**

- (g) Remove the sidewall carpet riser.

**LOM ALL**



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SUBTASK 33-51-06-960-007

- (4) Do these steps to replace the power supply [5]:
- Disconnect the electrical connector [6].
  - Remove the screws [2] and washers [1] (if applicable).
  - Remove the power supply [5].
  - Install the new power supply [5].
  - Install the washers [1] (if applicable) and screws [2].
  - Connect the electrical connector [6].

SUBTASK 33-51-06-710-005

- (5) Do a test of the new power supply [5].
- Remove the safety tag and close the applicable circuit breaker:

**CAPT Electrical System Panel, P18-3**

Row   Col   Number   Name

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

    A     10    C01357    PASS CABIN LIGHTING EMER CHGR LAFT

**LOM ALL**

    A     11    C00250    PASS CABIN LIGHTING EMER CHGR FWD

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

    B     10    C01358    PASS CABIN LIGHTING EMER CHGR R AFT

**F/O Electrical System Panel, P6-11**

Row   Col   Number   Name

**LOM 427-434, 437-447, 450-999**

    A     9     C01949    CABIN EMER LIGHTS

**LOM ALL**

- (b) Set the test switch [7] to the ON mode.

- 1) Make sure that the lights and signs connected to the power supply [5] come on.

NOTE: Use the WDM to identify the individual lights and signs (WDM 33-51-11 thru 33-51-22).

- 2) If the lights and signs do not come on, supply electrical power to the airplane to charge the battery pack [4] (TASK 33-51-06-610-802).

NOTE: The battery packs in the emergency light power supplies are continuously charged when electrical power is supplied to the airplane, unless the emergency light switches are set to the on mode. If the battery packs are fully drained, the time necessary to charge them is 90 minutes. If the battery pack is not fully discharged at initiation of the charge, the object will detect the fully charged condition, ending the charge mode and entering the maintenance phase prior to the 90 minutes re-charge time.

- a) Do the test again.

- (c) After approximately one minute, make sure that all emergency lights and signs go off automatically.

EFFECTIVITY  
LOM ALL

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**F. Put the Airplane Back to Its Usual Condition**

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426; AIRPLANES WITH THE POWER SUPPLY INSTALLED NEAR THE FORWARD ENTRY DOOR**

SUBTASK 33-51-06-410-014

- (1) Install the entry light.

**LOM 427-434, 437-447, 450-999; AIRPLANES WITH A POWER SUPPLY INSTALLED NEAR THE FORWARD ENTRY DOOR**

SUBTASK 33-51-06-410-025

- (2) Close the battery access door as follows:
  - (a) Close and hold the battery access door.
  - (b) Install the screws [9] and washers [10] through the clip and to the battery access door.
  - (c) Tighten the screws [9].

SUBTASK 33-51-06-410-023

- (3) Close the access panel.

**LOM ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED NEAR THE AFT ENTRY DOOR**

SUBTASK 33-51-06-410-015

- (4) Close the access panel in the lowered ceiling panel.

**LOM ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED ALONG THE SIDEWALL NEAR THE FLOOR**

SUBTASK 33-51-06-410-016

- (5) Install the sidewall carpet riser.

**LOM ALL**

———— END OF TASK ————

**TASK 33-51-06-200-801**

**6. Power Supply - Battery Pack Capacity Check**

NOTE: This procedure is a scheduled maintenance task.

**A. General**

- (1) This task gives the instructions to check the capacity of the battery pack for the emergency lights.
- (2) The capacity check makes sure each battery pack can operate its emergency lights and signs for a minimum of 15 minutes.

**B. References**

Reference	Title
WDM 33-51-11 thru 33-51-22	Wiring Diagram Manual

**C. Location Zones**

Zone	Area
200	Upper Half of Fuselage



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**D. Power Supply - Battery Pack Capacity Check**

SUBTASK 33-51-06-860-015

- (1) Make sure that the battery packs are fully charged.

NOTE: The battery packs in the emergency light power supplies are continuously charged when electrical power is supplied to the airplane, unless the emergency light switches are set to the on mode. If the battery packs are fully drained, the time necessary to charge them is 90 minutes. If the battery pack is not fully discharged at initiation of the charge, the object will detect the fully charged condition, ending the charge mode and entering the maintenance phase prior to the 90 minutes re-charge time.

SUBTASK 33-51-06-210-001

- (2) Do the battery pack capacity check:

- (a) Set the pilots emergency light switch, on the P5 overhead panel, to the ON mode.

NOTE: You will note the amount of time the emergency lights stay on for each battery pack.

- (b) Leave the switch in the on mode until all emergency lights go off.

- (c) Make sure that the emergency lights and signs stay on for a minimum of 15 minutes.

- 1) Identify each battery pack that does not operate its emergency lights and signs for a minimum of 15 minutes.

NOTE: Use the WDM (WDM 33-51-11 thru 33-51-22). It is not necessary to identify individual lights and signs. It is only necessary to identify emergency light power supplies where unsatisfactory battery packs may be installed.

- (d) Set the pilots emergency light switch, on the P5 overhead panel, to the OFF mode.

- (e) Charge the battery packs.

NOTE: The battery packs in the emergency light power supplies are continuously charged when electrical power is supplied to the airplane, unless the emergency light switches are set to the on mode. If the battery packs are fully drained, the time necessary to charge them is 90 minutes. If the battery pack is not fully discharged at initiation of the charge, the object will detect the fully charged condition, ending the charge mode and entering the maintenance phase prior to the 90 minutes re-charge time.

SUBTASK 33-51-06-810-001

- (3) Retest any battery packs that did not stay on for 15 minutes above.

- (a) Set the pilots emergency light switch, on the P5 overhead panel, to the ON mode.

NOTE: You will note the amount of time the emergency lights stay on that had previously failed.

- (b) Leave the switch in the on mode for a minimum of 15 minutes.

- (c) Make sure the emergency lights stayed on for a minimum of 15 minutes.

SUBTASK 33-51-06-860-024

- (4) If the battery pack operated correctly during the retest, then put the airplane back to its usual condition:

- (a) Set the pilots emergency light switch, on the P5 overhead panel, to the OFF mode.

EFFECTIVITY  
LOM ALL

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- (b) Charge the battery pack.

NOTE: The battery packs in the emergency light power supplies are continuously charged when electrical power is supplied to the airplane, unless the emergency light switches are set to the on mode. If the battery packs are fully drained, the time necessary to charge them is 90 minutes. If the battery pack is not fully discharged at initiation of the charge, the object will detect the fully charged condition, ending the charge mode and entering the maintenance phase prior to the 90 minutes re-charge time.

SUBTASK 33-51-06-860-025

- (5) If the battery pack did not operate correctly during the retest, then replace it:
- Do this task: Power Supply - Battery Pack Replacement, TASK 33-51-06-960-805.
  - Set the pilots emergency light switch, on the P5 overhead panel, to the OFF mode.
  - Charge the battery pack.

NOTE: The battery packs in the emergency light power supplies are continuously charged when electrical power is supplied to the airplane, unless the emergency light switches are set to the on mode. If the battery packs are fully drained, the time necessary to charge them is 90 minutes. If the battery pack is not fully discharged at initiation of the charge, the object will detect the fully charged condition, ending the charge mode and entering the maintenance phase prior to the 90 minutes re-charge time.

— END OF TASK —

**TASK 33-51-06-600-802**

**7. Power Supply - Battery Pack Deep-Cycle Procedure**

NOTE: This procedure is a scheduled maintenance task.

**A. General**

- This task gives the instructions to check the deep cycle of the battery pack for the emergency lights.
- The deep-cycle procedure removes the electrical power in the battery packs down to the power supply lower level cutoff and then charges them to their capacity.

**B. References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)

**C. Location Zones**

Zone	Area
200	Upper Half of Fuselage

**D. Power Supply - Battery Pack Deep-Cycle Procedure**

SUBTASK 33-51-06-860-019

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

SUBTASK 33-51-06-610-004

- Do the battery pack deep-cycle procedure:
  - Set the pilots emergency light switch, on the P5 overhead panel, to the ON mode.

EFFECTIVITY  
LOM ALL

**33-51-06**



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- (b) Keep the switch on until all emergency lights and signs go off.

NOTE: The removal of electrical power from the battery packs can take up to 90 minutes.

- (c) After all emergency lights and signs go off, set the switch to the OFF mode.  
(d) Charge the battery packs (TASK 33-51-06-610-802).

NOTE: The battery packs in the emergency light power supplies are continuously charged when electrical power is supplied to the airplane, unless the emergency light switches are set to the on mode. If the battery packs are fully drained, the time necessary to charge them is 90 minutes. If the battery pack is not fully discharged at initiation of the charge, the object will detect the fully charged condition, ending the charge mode and entering the maintenance phase prior to the 90 minutes re-charge time.

SUBTASK 33-51-06-860-020

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

———— END OF TASK ————

EFFECTIVITY  
LOM ALL

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FLOOR PROXIMITY LIGHTS, SEAT-MOUNTED - MAINTENANCE PRACTICES

**1. General**

**LOM 461-463**

- A. This procedure has these tasks:
- (1) Floor Proximity Light - Lamp Replacement
  - (2) Floor Proximity Light - Light Assembly Replacement

**LOM 466-999**

- B. This procedure has this task:
- (1) Floor Proximity Light - Light Assembly Replacement

**LOM 461-463, 466-999; AIRPLANES WITH SEAT-MOUNTED LIGHTS**

- C. Do not use this procedure for the exit signs that identify the doors and escape hatches. These are the tasks:
- Exit Sign Lamp Replacement, TASK 33-51-01-960-801
  - Exit Sign Light Assembly Replacement, TASK 33-51-01-960-802

**LOM 461-463**

**TASK 33-51-11-960-801**

**2. Floor Proximity Light - Lamp Replacement**

(Figure 201)

**A. References**

Reference	Title
WDM 33-51-21	Wiring Diagram Manual

**B. Location Zones**

Zone	Area
200	Upper Half of Fuselage

**C. Procedure**

SUBTASK 33-51-11-960-001



**WARNING** DO NOT TOUCH THE SOCKET OR THE METAL END OF THE LAMP. WHEN ELECTRICAL POWER IS SUPPLIED TO THE LIGHT, ELECTRICAL SHOCK CAN OCCUR.

- (1) Do these steps to replace the applicable lamp (WDM 33-51-21):

- (a) Remove the lens.

NOTE: Before you remove a lens with an arrow, make a note about the direction of the arrow.

- 1) If the lens has an oval shape, turn it 20 degrees counterclockwise, then pull it off.

- 2) If the lens is installed with a fastener, loosen it.

- (b) Replace the lamp.

- 1) If the light assembly has two lamps, replace each lamp.

EFFECTIVITY  
**LOM 461-463, 466-999; AIRPLANES WITH  
SEAT-MOUNTED LIGHTS**

**33-51-11**



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**LOM 461-463 (Continued)**

- (c) Install the lens.

NOTE: Each lens with an arrow must be installed with the arrow pointed in the correct direction. Each colored lens must be installed in the correct location.

- 1) If the lens has an oval shape, put the lens in the light housing, then turn it 20 degrees clockwise to lock it in its position.
- 2) If the lens is installed with a fastener, tighten it.

SUBTASK 33-51-11-710-001

- (2) Do a test of the new lamp:

NOTE: The emergency lights are energized by the power supplies. Use the lights for a minimum time to do the test.

- (a) At the attendant panel in the passenger compartment, set the emergency light switch to the on mode.
  - 1) Make sure the lamp comes on.
- (b) Set the switch to the off mode.
  - 1) Make sure all emergency lights and signs go off.

———— END OF TASK ————

EFFECTIVITY  
LOM 461-463, 466-999; AIRPLANES WITH  
SEAT-MOUNTED LIGHTS

**33-51-11**

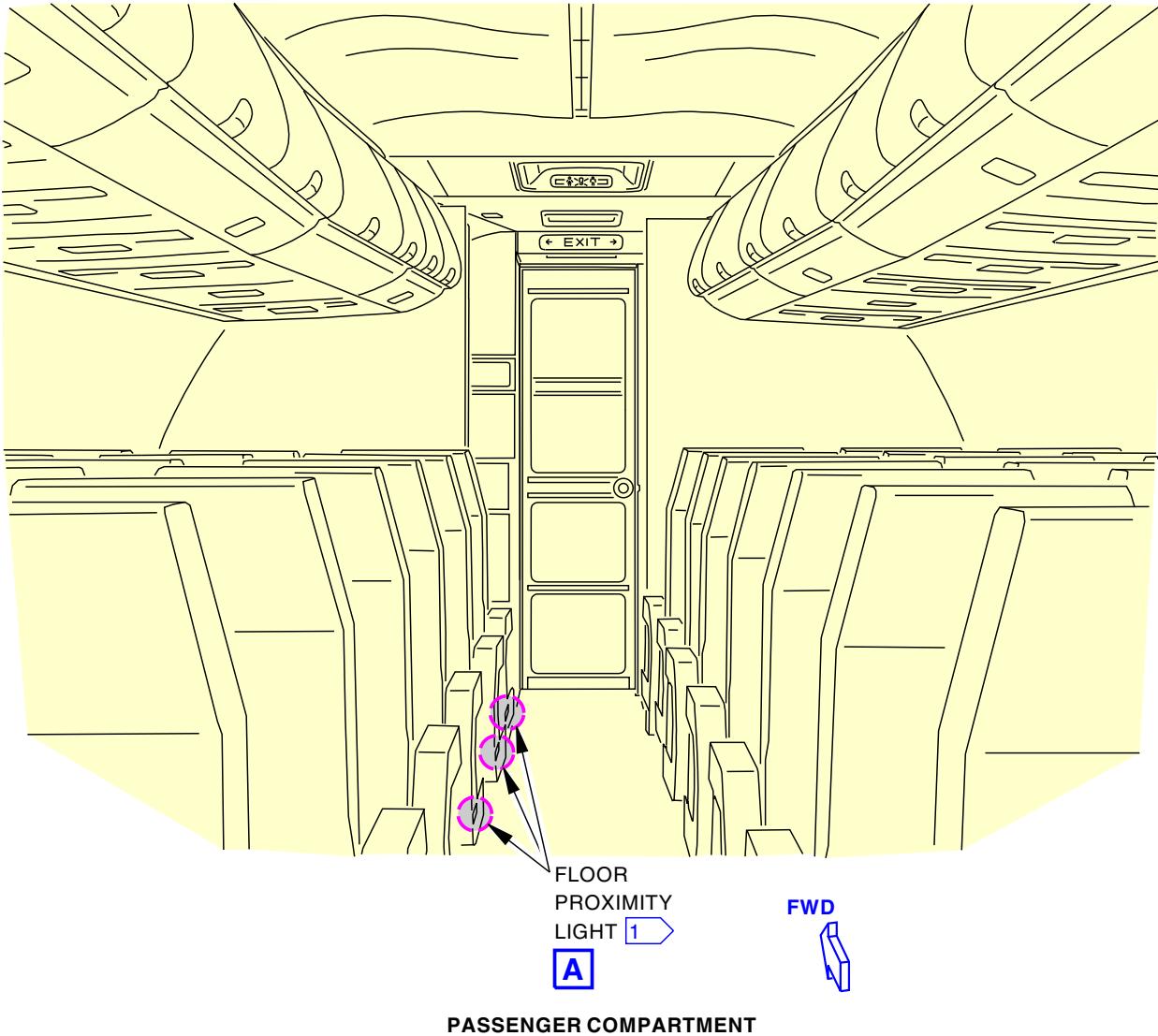
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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1 INSTALLED ON LEFT OR RIGHT SIDE OF AISLE

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Floor Proximity Light - Lamp Replacement  
Figure 201/33-51-11-990-801 (Sheet 1 of 2)

EFFECTIVITY  
LOM 461-463

**33-51-11**

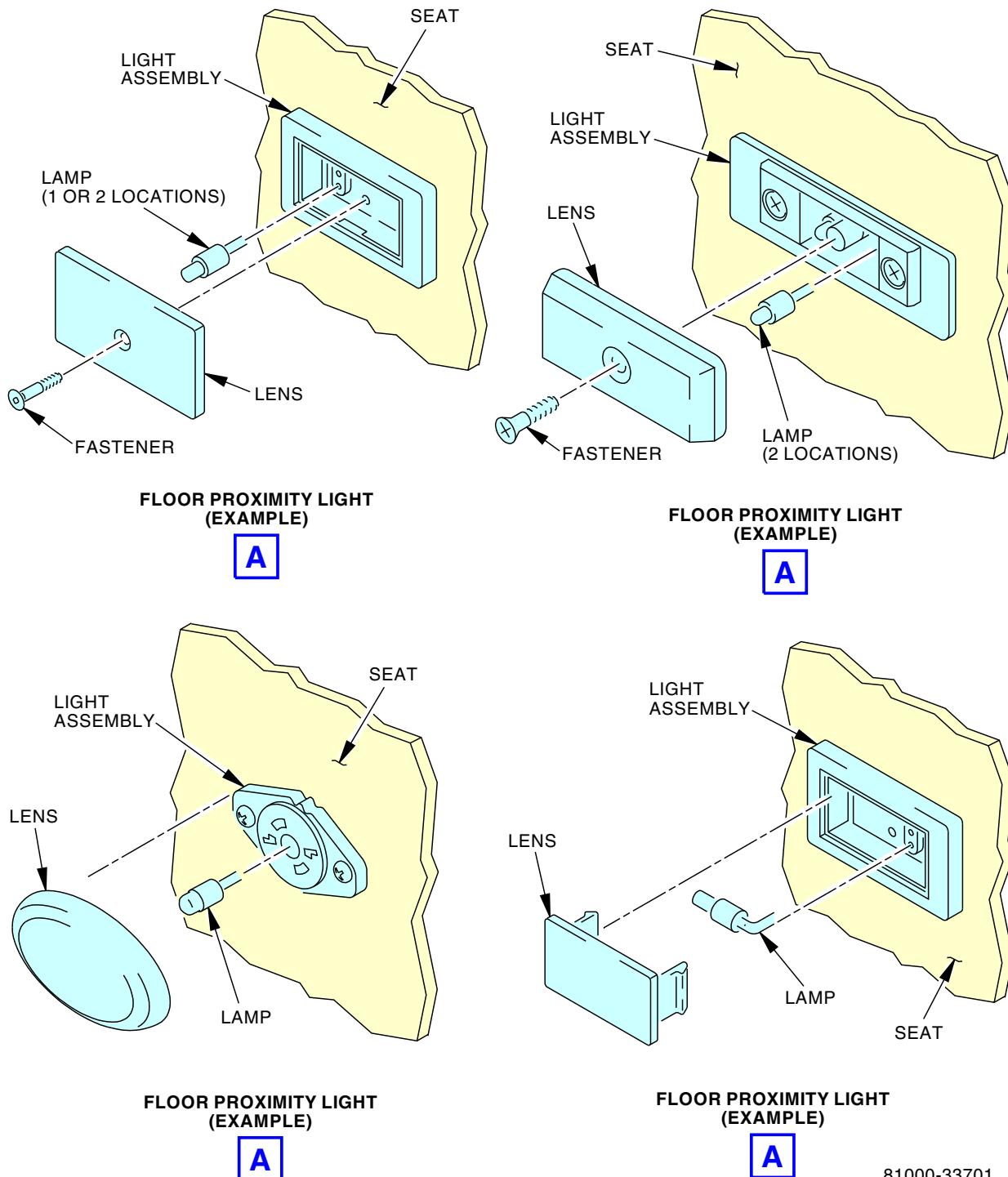
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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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Floor Proximity Light - Lamp Replacement  
Figure 201/33-51-11-990-801 (Sheet 2 of 2)

EFFECTIVITY  
LOM 461-463

**33-51-11**



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LOM 461-463, 466-999; AIRPLANES WITH SEAT-MOUNTED LIGHTS

**TASK 33-51-11-960-802**

**3. Floor Proximity Light - Light Assembly Replacement**

(Figure 202 or Figure 203)

**A. References**

Reference	Title
WDM 33-51-21	Wiring Diagram Manual

**B. Location Zones**

Zone	Area
200	Upper Half of Fuselage

**C. Floor Proximity Light - Light Assembly Replacement**

**LOM 461-463**

SUBTASK 33-51-11-960-002

- (1) Do these steps to replace the applicable light assembly (WDM 33-51-21):

- (a) Remove the light assembly from the seat.

1) If the light assembly has no fasteners, reach behind the light assembly and push it out from the seat.

2) If light assembly has fasteners, do these steps:

- a) To remove the lens, do this task: Floor Proximity Light - Lamp Replacement, TASK 33-51-11-960-801.

NOTE: Do only the applicable steps to remove the lens.

- b) Loosen the fasteners that hold the light assembly in its position.

- c) Pull out the light assembly.

- (b) Disconnect the electrical wires.

NOTE: You can disconnect the electrical wires at the light assembly or disconnect them at the electrical connector. You will find approximately 6 inches of electrical wire between the light assembly and the electrical connector. Usually, the electrical wires and connectors will be under the seat.

- (c) Connect the electrical wires to the new light assembly.

1) Make sure that the new light assembly includes a lamp (Floor Proximity Light - Lamp Replacement, TASK 33-51-11-960-801).

- (d) Install the new light assembly in the seat.

1) If the light assembly has no fasteners, put it in the seat opening and push it into its position.

2) If the light assembly has fasteners, do these steps:

- a) Put the light assembly in the seat opening.

- b) Tighten the fasteners that hold the light assembly in its position.

c) To install the lens, do this task: Floor Proximity Light - Lamp Replacement, TASK 33-51-11-960-801.

NOTE: Do only the applicable steps to install the lens.

- (e) Make sure that the electrical wires are installed securely in their usual position.

EFFECTIVITY  
LOM 461-463, 466-999; AIRPLANES WITH  
SEAT-MOUNTED LIGHTS

**33-51-11**



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

**LOM 466-999**

SUBTASK 33-51-11-960-003

- (2) Do these steps to replace the applicable light assembly (WDM 33-51-21):
  - (a) Remove the light assembly from the seat.
    - 1) Reach behind the light assembly and push it out from the seat or pull it out using your fingernails.
  - (b) Disconnect the electrical wires.

NOTE: You will cut the wires and then using crimp fasteners, reconnect the wires to the new assembly.
  - (c) Connect the electrical wires to the new light assembly.
  - (d) Install the new light assembly in the seat.
    - 1) Put the light assembly in the seat opening.
    - 2) Make sure that the electrical wires are installed securely in their usual position.
    - 3) Push it into place until the clips hold it.

**LOM 461-463, 466-999; AIRPLANES WITH SEAT-MOUNTED LIGHTS**

SUBTASK 33-51-11-710-002

- (3) Do a test of the new light assembly.

NOTE: The emergency lights are energized by the power supplies. Use the lights for a minimum time to do the test.

  - (a) At the attendant panel in the passenger compartment, set the emergency light switch to the ON mode.
    - 1) Make sure that the new light comes on.
  - (b) Set the switch to the NORMAL mode.
    - 1) Make sure that all emergency lights and signs go off.

———— END OF TASK ————

EFFECTIVITY  
**LOM 461-463, 466-999; AIRPLANES WITH  
SEAT-MOUNTED LIGHTS**

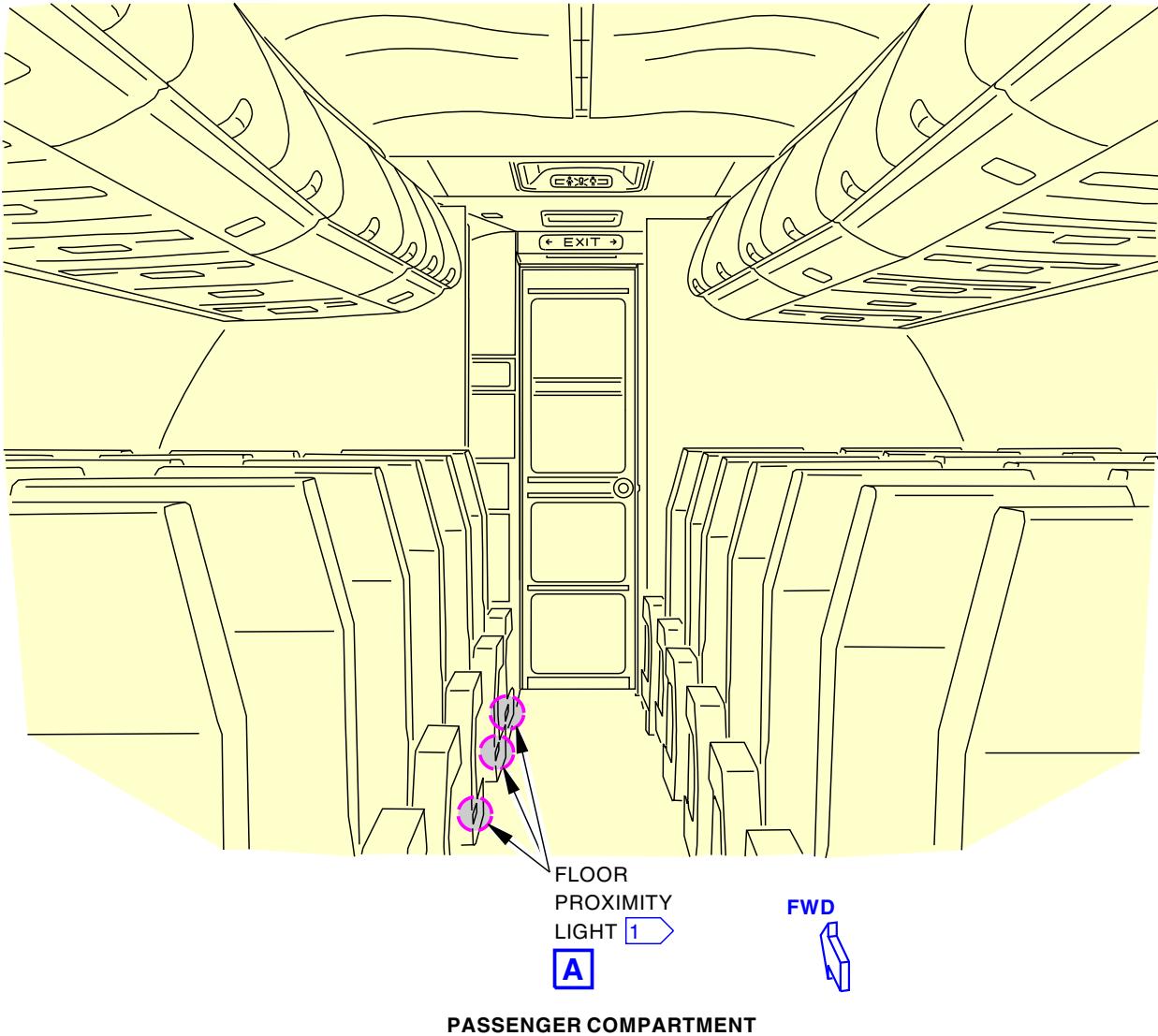
**33-51-11**

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AIRCRAFT MAINTENANCE MANUAL



1 INSTALLED ON LEFT OR RIGHT SIDE OF AISLE

G75942 S0006576406\_V2

**Floor Proximity Light - Light Assembly Replacement**  
Figure 202/33-51-11-990-802 (Sheet 1 of 2)

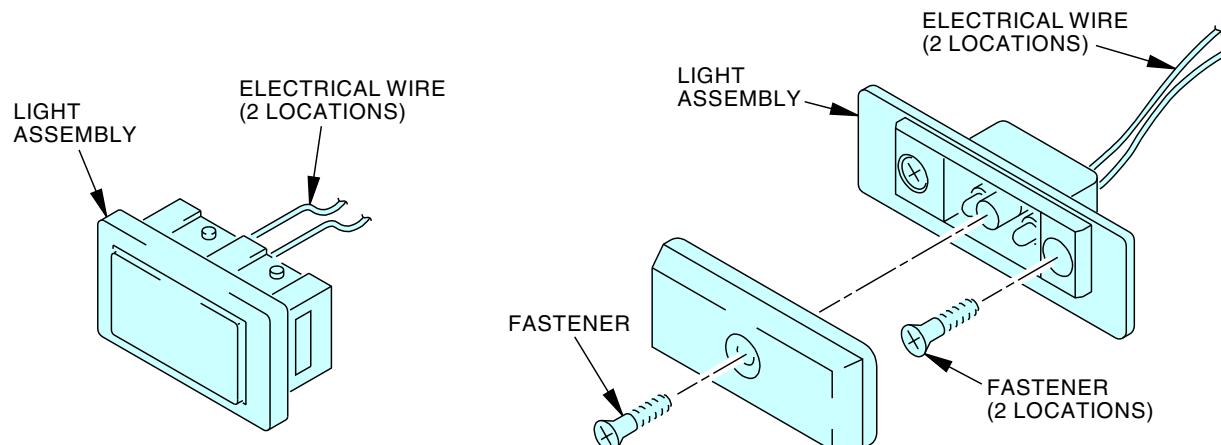
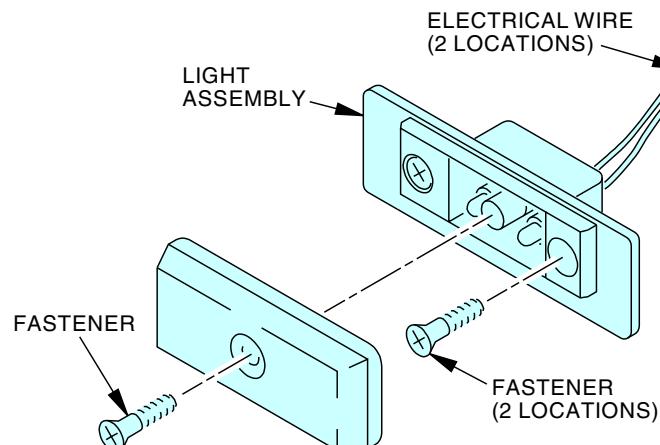
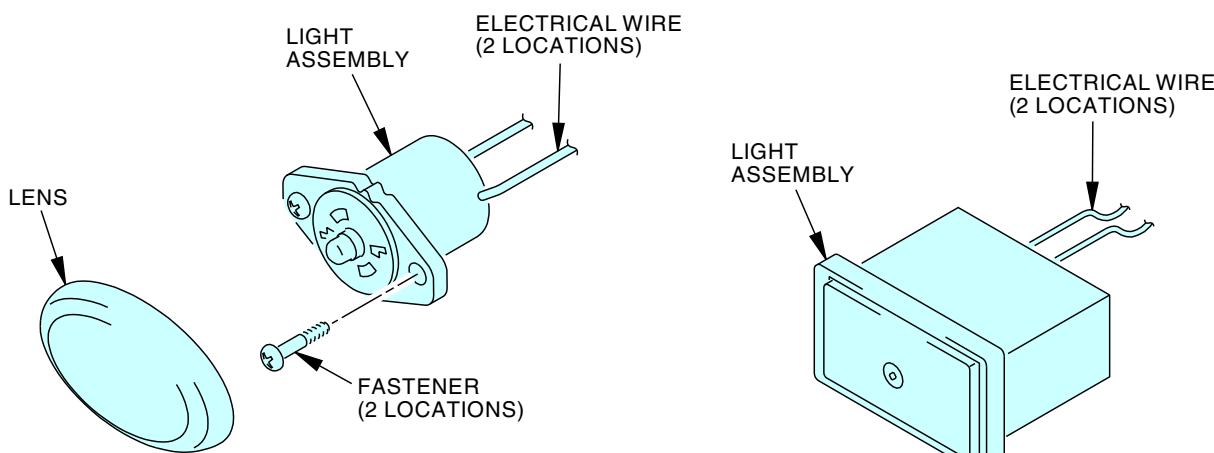
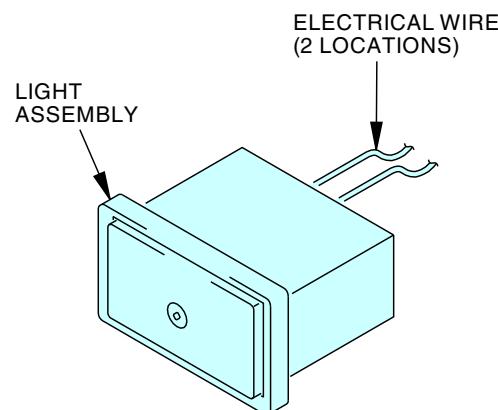
EFFECTIVITY  
LOM 461-463

**33-51-11**

D633A101-LOM

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**FLOOR PROXIMITY LIGHT  
(EXAMPLE)**
**A**

**FLOOR PROXIMITY LIGHT  
(EXAMPLE)**
**A**

**FLOOR PROXIMITY LIGHT  
(EXAMPLE)**
**A**

**FLOOR PROXIMITY LIGHT  
(EXAMPLE)**
**A**

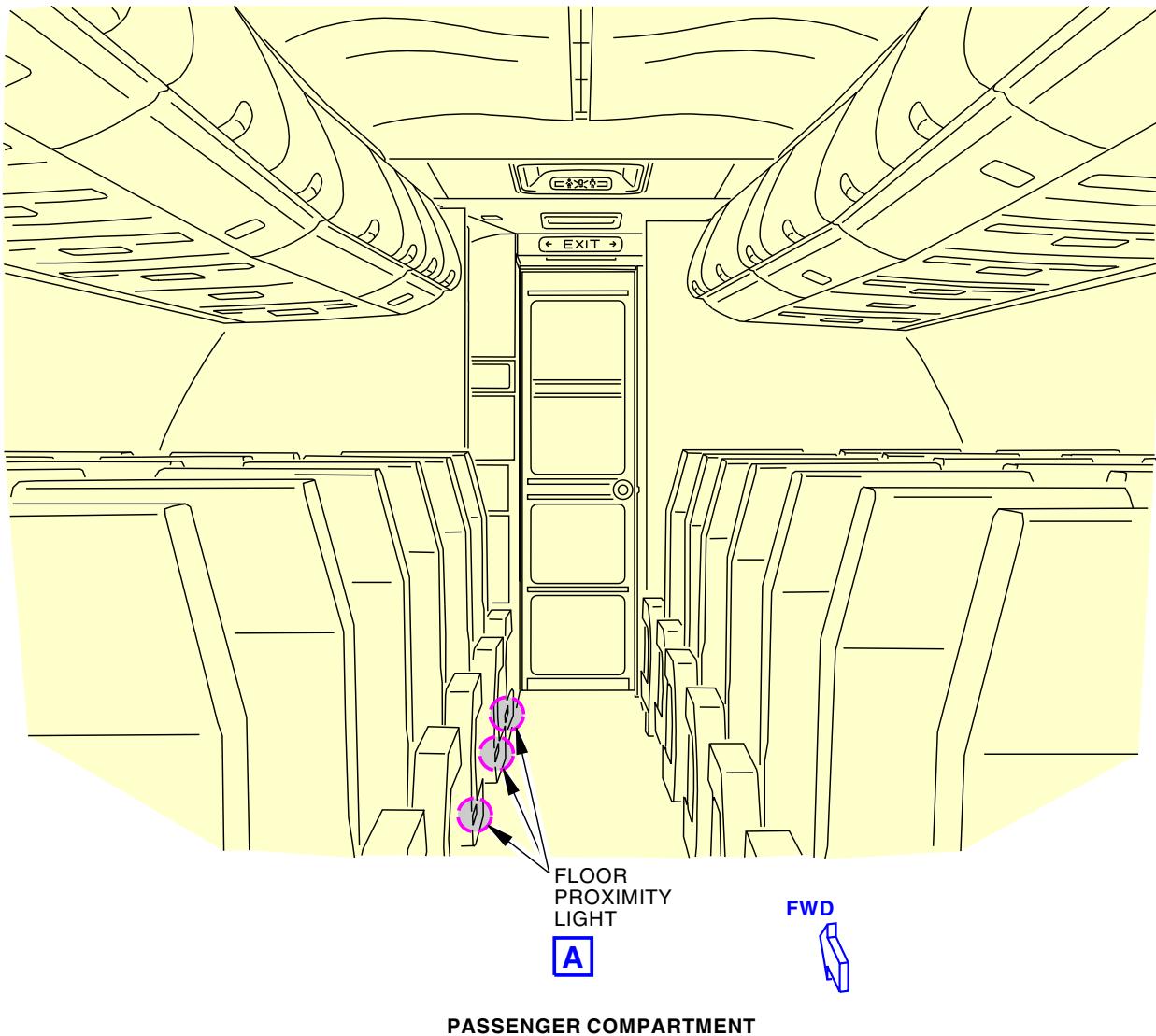
 81000-33701  
 F62041 S0006576410\_V2

**Floor Proximity Light - Light Assembly Replacement  
Figure 202/33-51-11-990-802 (Sheet 2 of 2)**

 EFFECTIVITY  
**LOM 461-463**
**33-51-11**
**D633A101-LOM**



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AIRCRAFT MAINTENANCE MANUAL



D73231 S0000164232\_V2

**Floor Proximity Light - Light Assembly Replacement**  
**Figure 203/33-51-11-990-803 (Sheet 1 of 2)**

EFFECTIVITY  
LOM 466-999

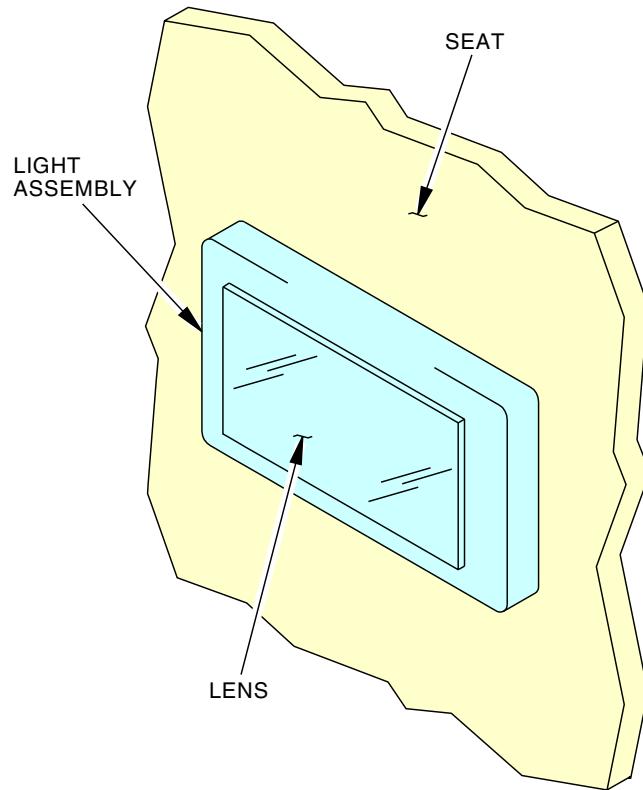
**33-51-11**

D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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



**FLOOR PROXIMITY LIGHT (SEAT)  
(EXAMPLE)**

**A**

81000-33701

D73259 S0000164165\_V2

**Floor Proximity Light - Light Assembly Replacement  
Figure 203/33-51-11-990-803 (Sheet 2 of 2)**

EFFECTIVITY  
LOM 466-999

**33-51-11**

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FLOOR PROXIMITY LIGHTS ON GALLEYS, LAVATORIES, CLOSETS, AND WINDSCREENS -  
MAINTENANCE PRACTICES

1. General

- A. This procedure has these tasks:
- (1) Floor Proximity Light - Lamp Replacement
  - (2) Floor Proximity Light - Light Assembly Replacement

**TASK 33-51-14-960-801**

2. Floor Proximity Light - Lamp Replacement

(Figure 201)

A. References

Reference	Title
WDM 33-51-21	Wiring Diagram Manual

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Lamp Replacement

SUBTASK 33-51-14-960-001



**WARNING**

DO NOT TOUCH THE SOCKET OR THE METAL END OF THE LAMP. WHEN ELECTRICAL POWER IS SUPPLIED TO THE LAMP, ELECTRICAL SHOCK CAN OCCUR. THIS CAN CAUSE INJURIES TO PERSONNEL.

- (1) Do these steps to replace the applicable lamp [2] (WDM 33-51-21):
  - (a) Remove the lens [1].
  - (b) Replace the lamp [2].
  - (c) Install the lens [1].

SUBTASK 33-51-14-710-001

- (2) Do a test of the new lamp [2]:

NOTE: The emergency lights are energized by the power supplies. Use the lights for a minimum time to do the test.

- (a) At the attendant panel in the passenger compartment, set the emergency light switch to the ON mode.
  - 1) Make sure that the light comes on.
- (b) Set the switch to the NORMAL mode.
  - 1) Make sure that all emergency lights and signs go off.

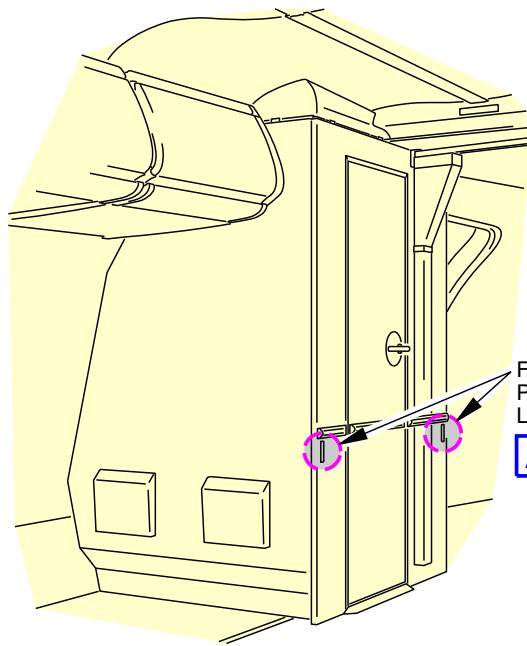
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EFFECTIVITY  
LOM ALL

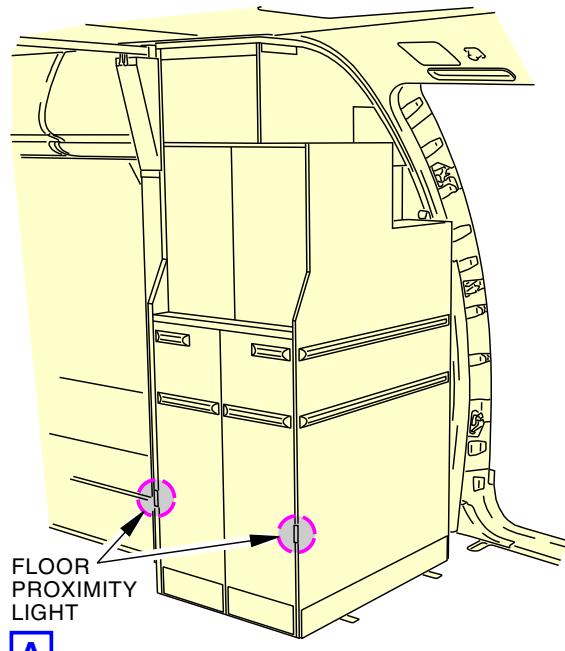
**33-51-14**



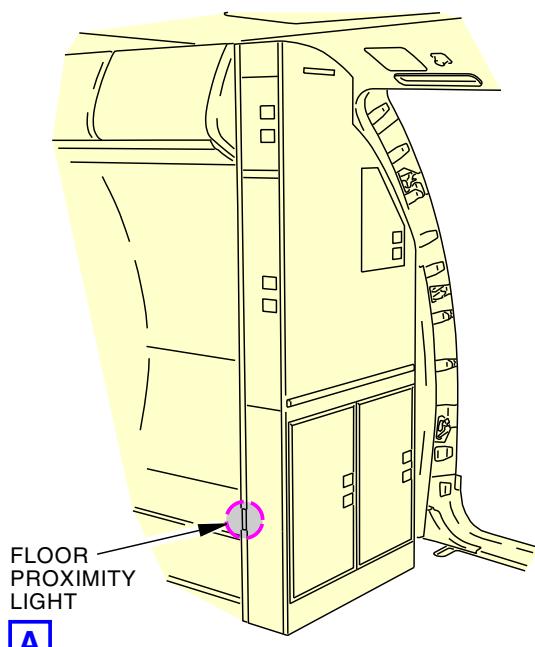
737-600/700/800/900  
AIRCRAFT MAINTENANCE MANUAL



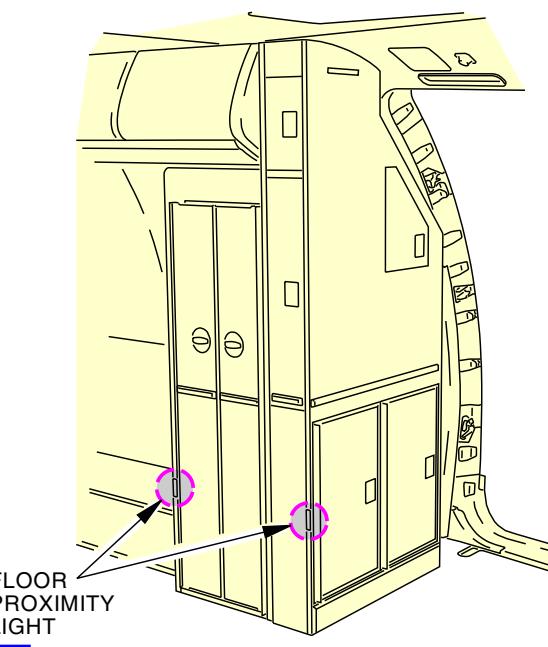
LAVATORY  
(EXAMPLE)



GALLEY  
(EXAMPLE)



WINDSCREEN  
(EXAMPLE)



CLOSET  
(EXAMPLE)

G76532 S0006576430\_V2

Floor Proximity Light - Lamp Replacement  
Figure 201/33-51-14-990-801 (Sheet 1 of 2)

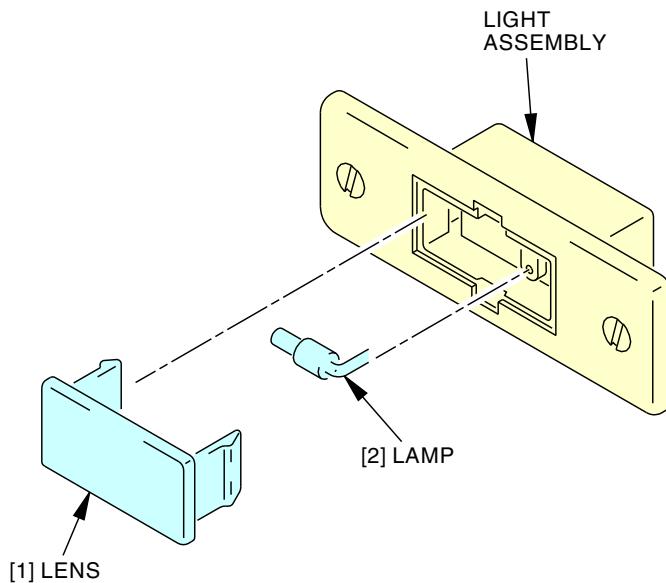
EFFECTIVITY  
LOM ALL

**33-51-14**

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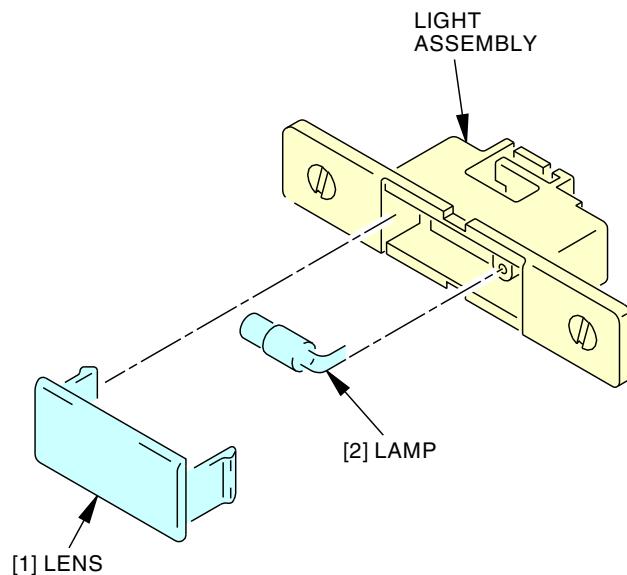
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**BOEING**  
**737-600/700/800/900**  
**AIRCRAFT MAINTENANCE MANUAL**



**FLOOR PROXIMITY LIGHT  
(EXAMPLE)**

**A**



**FLOOR PROXIMITY LIGHT  
(EXAMPLE)**

**A**

81000-33901  
81000-33801

F61996 S0006576431\_V3

**Floor Proximity Light - Lamp Replacement**  
**Figure 201/33-51-14-990-801 (Sheet 2 of 2)**

EFFECTIVITY  
LOM ALL

**33-51-14**



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**TASK 33-51-14-960-802**

**3. Floor Proximity Light - Light Assembly Replacement**

(Figure 202)

**A. References**

Reference	Title
WDM 33-51-21	Wiring Diagram Manual

**B. Location Zones**

Zone	Area
200	Upper Half of Fuselage

**C. Light Assembly Replacement**

SUBTASK 33-51-14-960-002

- (1) Do these steps to replace the applicable light assembly [3] (WDM 33-51-21):

- (a) Remove the fasteners [4].
- (b) Pull out the light assembly [3].
- (c) Disconnect the electrical wires [5].
- (d) Connect the electrical wires [5] to the new light assembly [3].
  - 1) Make sure that the new light assembly [3] includes a lamp (TASK 33-51-14-960-801).
- (e) Install the new light assembly [3].
  - 1) Make sure that the electrical wires [5] are installed securely in their usual position.
- (f) Install the fasteners [4].

SUBTASK 33-51-14-710-002

- (2) Do a test of the new light assembly [3]:

NOTE: The emergency lights are energized by the power supplies. Use the lights for a minimum time to do the test.

- (a) At the attendant panel in the passenger compartment, set the emergency light switch to the ON mode.
  - 1) Make sure that the light comes on.
- (b) Set the switch to the NORMAL mode.
  - 1) Make sure that all emergency lights and signs go off.

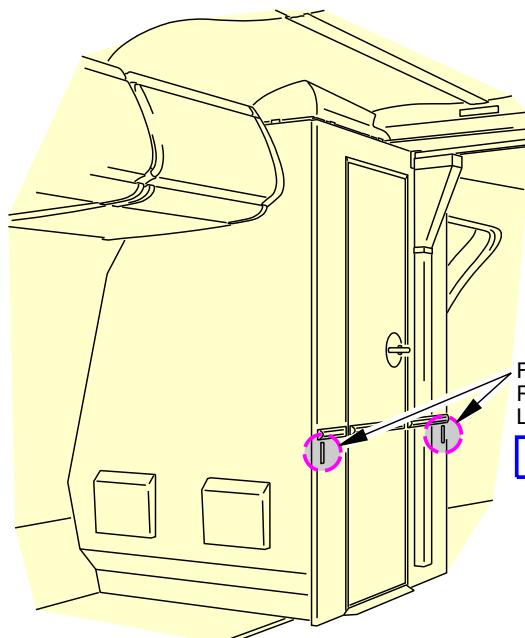
———— END OF TASK ————

EFFECTIVITY  
LOM ALL

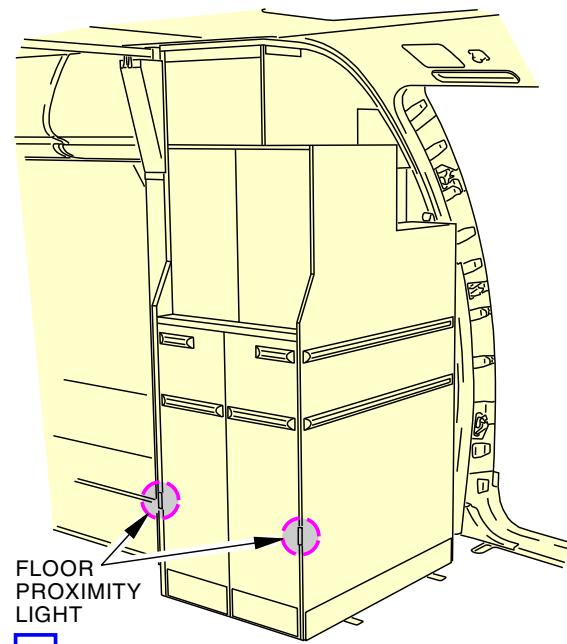
**33-51-14**



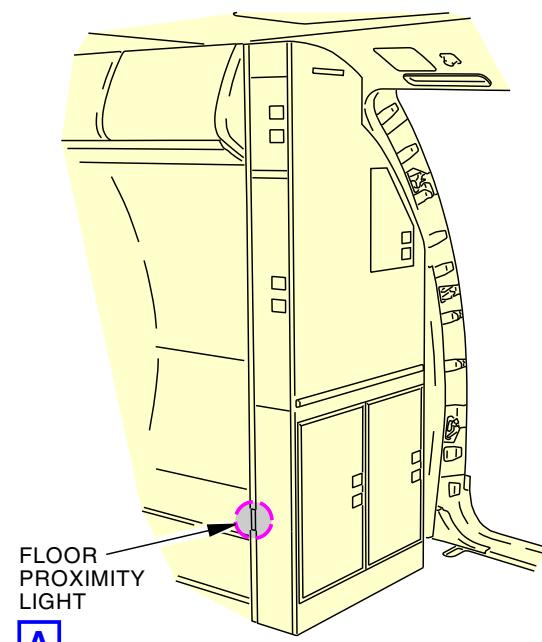
737-600/700/800/900  
AIRCRAFT MAINTENANCE MANUAL



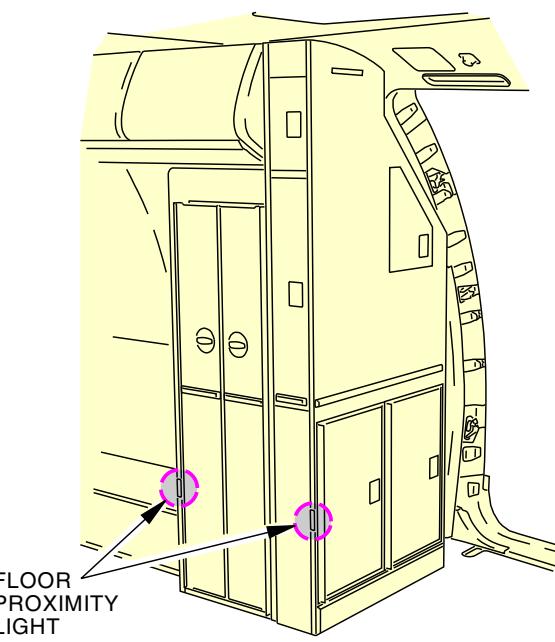
LAVATORY  
(EXAMPLE)



GALLEY  
(EXAMPLE)



WINDSCREEN  
(EXAMPLE)



CLOSET  
(EXAMPLE)

G76559 S0006576433\_V2

**Floor Proximity Light - Light Assembly Replacement**  
Figure 202/33-51-14-990-802 (Sheet 1 of 2)

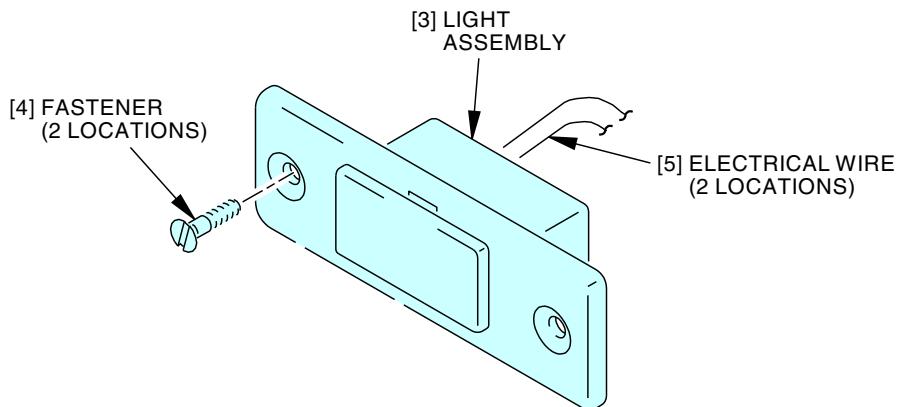
EFFECTIVITY  
LOM ALL

**33-51-14**

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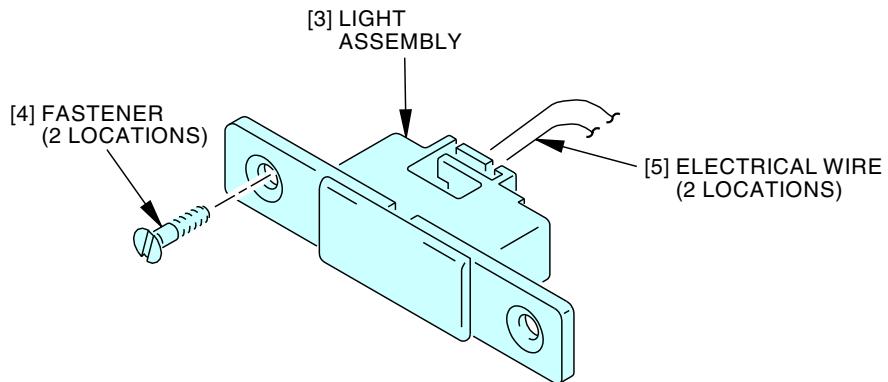
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AIRCRAFT MAINTENANCE MANUAL



FLOOR PROXIMITY LIGHT  
(EXAMPLE)

**A**



FLOOR PROXIMITY LIGHT  
(EXAMPLE)

**A**

81000-33901  
81000-33801

F62161 S0006576434\_V3

**Floor Proximity Light - Light Assembly Replacement**  
**Figure 202/33-51-14-990-802 (Sheet 2 of 2)**

EFFECTIVITY  
LOM ALL

**33-51-14**

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AIRCRAFT MAINTENANCE MANUAL

FLOOR PROXIMITY LIGHTS, PHOTOLUMINESCENT - MAINTENANCE PRACTICES

**1. General**

- A. This procedure contains scheduled maintenance task data.
- B. This procedure has these tasks:
  - (1) Floor Proximity Light - Charge the Photoluminescent Strips
  - (2) Floor Proximity Light - Photoluminescent Strip Replacement
  - (3) Floor Proximity Light - Photoluminescent Strip Cleaning
  - (4) Floor Proximity Light - Photoluminescent Strip Inspection
- C. Do not use this procedure for the exit signs that identify the doors and escape hatches.

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426**

**TASK 33-51-15-860-801**

**2. Floor Proximity Light - Charge the Photoluminescent Strips**

**A. General**

- (1) The photoluminescent strips are energized when light is present. This procedure uses the passenger cabin lights to supply a continuous charge to all sections of the photoluminescent strips.

**B. References**

<b>Reference</b>	<b>Title</b>
WDM 33-21-11	Wiring Diagram Manual

**C. Location Zones**

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

**D. Procedure**

**SUBTASK 33-51-15-860-001**

- (1) Do these steps to charge the photoluminescent strips:
  - (a) At the applicable attendants panel, set the switch for the fluorescent ceiling lights (WDM 33-21-11), and sidewall lights to the On or bright mode.

**NOTE:** Passenger compartment lighting is critical to the performance of the photoluminescent floor proximity system. Use the applicable maintenance procedures to properly maintain these lights.
  - (b) To accomplish the initial charging of the photoluminescent strips, select the scenarios illustrated in (Table 201)

**EFFECTIVITY**

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-460, 464, 465; AIRPLANES  
WITH PHOTOLUMINESCENT FLOOR PROXIMITY  
LIGHTS**

**33-51-15**

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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426 (Continued)**

**Table 201/33-51-15-993-803**

Charge Scenario	Photoluminescent Duration (Hours)	Remarks
First flight of the day Bins Closed No passengers		
* 5 minute charge	* 4.25	
* 10 minute charge	* 8	
* 15 minute charge	* 9.5	
* 30 minute charge	* 14	
* 45 minute charge	* 16	
First flight of the day Bins open No Passengers		Cabin activity limited to minor aisle traffic of crew and personnel. Passengers will shadow the system and are not allowed on board during charging.
* 15 minute charge	* 5.75	
* 30 minute charge	* 7.5	

- (c) Photoluminescent duration can be extended beyond the initial charge, by using the extended charge scenarios illustrated in (Table 202).

NOTE: The Photoluminescent Duration times listed in (Table 202) differ from those listed in (Table 201) because of differences in the charge time starting conditions.

**Table 202/33-51-15-993-804**

Charge Scenario	Photoluminescent Duration (Hours)	Remarks
In flight/taxi with cabin lighting on	No limit with ceiling lights on dim or greater	
In flight/taxi with cabin lighting off		Begin charging prior to previous discharge duration.
* 15 minute charge	* 8	
* 30 minute charge	* 11.25	
Ground turn with bin doors open and passengers in seats		Bin doors can be open during charging. Passenger loading and unloading periods cannot be included in the charge time. Passengers can be on the airplane. Begin charging prior to previous discharge duration.
* 15 minute charge	* 6.75	
* 30 minute charge	* 9	
Ground turn with bin doors open and no passengers in seats		Bin doors can be open during charging. Passenger loading and unloading periods cannot be included in the charge time. Passengers cannot be on the airplane. Begin charging prior to previous discharge duration.
* 15 minute charge	* 7.5	
* 30 minute charge	* 10	

———— END OF TASK ————

**LOM 427-434, 437-447, 450-460, 464, 465**

EFFECTIVITY  
**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
 422-434, 437-447, 450-460, 464, 465; AIRPLANES  
 WITH PHOTOLUMINESCENT FLOOR PROXIMITY  
 LIGHTS**



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**LOM 427-434, 437-447, 450-460, 464, 465 (Continued)**

**TASK 33-51-15-860-803**

**3. Floor Proximity Light - Charge the Photoluminescent Strips**

**A. General**

- (1) The photoluminescent strips are energized when light is present. This procedure uses the passenger cabin lights to supply a continuous charge to all sections of the photoluminescent strips.
- (2) The procedure uses three types of Boeing Sky Interior (BSI) light scenes to charge photoluminescent strips.
  - (a) Standard BSI light scene
  - (b) Airline custom BSI light scene
    - (1) The photoluminescent strips charging criteria is to use the White – White – Amber (WWA) light types, such as the Center Overhead Stowage Lights, Crossbin Lights and Direct Lights. This charging criterion is limited to WWA light types due to their ability to charge photoluminescent strips as compared to the full color LED lights.
    - (2) The photoluminescent charge criteria are limited to the W1 (cool white light source) and W2 (warm white light source) colors with High or Medium intensities because these colors and intensities have the ability to charge the photoluminescent strips.
  - (c) Attendant Control Panel (ACP) Inoperative (30% Brightness)

**B. Location Zones**

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

**C. Charge the Photoluminescent Strips with Standard BSI Light Scene**

**SUBTASK 33-51-15-860-007**

- (1) Do these steps to charge the photoluminescent strips with standard BSI light scene:
  - (a) At the applicable attendants panel, set the Passenger Seating Area scene to White BRIGHT.

**NOTE:** Passenger compartment lighting is critical to the performance of the photoluminescent floor proximity system. Use the applicable maintenance procedures to properly maintain these lights.
  - (b) To accomplish the initial charging of the photoluminescent strips, select the scenarios illustrated in the applicable (Table 203 or Table 204)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-460, 464, 465; AIRPLANES  
WITH PHOTOLUMINESCENT FLOOR PROXIMITY  
LIGHTS

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**LOM 427-434, 437-447, 450-460, 464, 465 (Continued)**

**Table 203/33-51-15-993-809 BSI First Flight Charging Requirement for Photoluminescent Strips (Blue Color Strips)**

Charge Scenario (Light Scene)	Photoluminescent Duration (Hours)	Remarks
First flight of the day Bins closed (White BRIGHT)  * 5 minute charge * 10 minute charge * 15 minute charge	* 3.5 * 5.0 * 7.5	Close overhead bins during charging. Cabin activity is limited to minor aisle traffic of crew and personnel.
First flight of the day Bins open No Passengers (White BRIGHT)  * 10 minute charge * 15 minute charge	* 5.0 * 7.5	Bin doors can be open during charging. Cabin activity is limited to minor aisle traffic or crew and personnel.

**Table 204/33-51-15-993-810 BSI First Flight Charging Requirement for Photoluminescent Strips (Not Blue Color Strips)**

Charge Scenario (Light Scene)	Photoluminescent Duration (Hours)	Remarks
First flight of the day Bins closed (White BRIGHT)  * 5 minute charge * 10 minute charge * 15 minute charge	* 8.0 * 9.5 * 12.5	Close overhead bins during charging. Cabin activity is limited to minor aisle traffic of crew and personnel.
First flight of the day Bins open No Passengers (White BRIGHT)  * 10 minute charge * 15 minute charge	* 9.5 * 12.5	Bin doors can be open during charging. Cabin activity is limited to minor aisle traffic or crew and personnel.

- (c) Photoluminescent duration can be extended beyond the initial charge, by using the extended charge scenarios illustrated in the applicable (Table 205 or Table 206).

NOTE: The Photoluminescent Duration times listed in (Table 205 and Table 206) differ from those listed in (Table 203 and Table 204) because of differences in the charge time starting conditions.

EFFECTIVITY  
**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
 422-434, 437-447, 450-460, 464, 465; AIRPLANES  
 WITH PHOTOLUMINESCENT FLOOR PROXIMITY  
 LIGHTS**



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**LOM 427-434, 437-447, 450-460, 464, 465 (Continued)**

**Table 205/33-51-15-993-811 BSI Quick Turnaround and In-Flight Charging Requirement (Blue Color Strips)**

Charge Scenario (Light Scene)	Photoluminescent Duration (Hours)	Remarks
Continuous Flight	No limit with ceiling lights and sidewall lights stay on.	If the Attendant Control Panel loses communication with the ceiling lights and sidewall lights, these lights will go to default medium white. Flight duration can be extended continuously
In-Flight Charging (Taxi/Take-off) * 10 minute charge	* 2.5	Charging must begin prior to previous discharge duration ends.
(Meal/Beverage) * 15 minute charge	* 3.5	Strips are assumed to be shadowed during meal service by galley cart and flight attendants which are stationary for 5 minutes.
(Cruise) * 15 minute charge	* 3.5	
Quick turn with bin doors open and passengers in seats (White BRIGHT)  * 10 minute charge  * 15 minute charge	* 5.0  * 7.5	Charging must begin prior to previous discharge duration ends. Bin doors can be open during charging. Passenger loading and unloading periods cannot be included in the charge time. Passengers can be on the airplane.

**Table 206/33-51-15-993-812 BSI Quick Turnaround and In-Flight Charging Requirement (Not Blue Color Strips)**

Charge Scenario (Light Scene)	Photoluminescent Duration (Hours)	Remarks
Continuous Flight	No limit with ceiling lights and sidewall lights stay on.	If the Attendant Control Panel loses communication with the ceiling lights and sidewall lights, these lights will go to default medium white. Flight duration can be extended continuously
In-Flight Charging (Taxi/Take-off) * 10 minute charge	* 3.5	Charging must begin prior to previous discharge duration ends.
(Meal/Beverage) * 15 minute charge	* 5.0	Strips are assumed to be shadowed during meal service by galley cart and flight attendants which are stationary for 5 minutes.
(Cruise) * 15 minute charge	* 5.0	

EFFECTIVITY  
**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
 422-434, 437-447, 450-460, 464, 465; AIRPLANES  
 WITH PHOTOLUMINESCENT FLOOR PROXIMITY  
 LIGHTS**

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**LOM 427-434, 437-447, 450-460, 464, 465 (Continued)**

**Table 206/33-51-15-993-812 BSI Quick Turnaround and In-Flight Charging Requirement (Not Blue Color Strips) (Continued)**

Charge Scenario (Light Scene)	Photoluminescent Duration (Hours)	Remarks
In-Flight Charging* - Double Charge at 3 Hours and 6.5 Hours  (Meal/Beverage) * 15 minute charge	* 7.5	Charging must begin prior to previous discharge duration ends. Strips are assumed to be shadowed during meal service by galley cart and flight attendants which are stationary for 5 minutes. To get double charging credit, strips must be charged within 3 hours after prior charge.
(Cruise) * 30 minute charge	* 7.5	The second charge must take place before 6.5 hours elapsed from initial charge.
Quick turn with bin doors open and passengers in seats (White BRIGHT)  * 10 minute charge  * 15 minute charge	* 9.5  * 12.5	Charging must begin prior to previous discharge duration ends. Bin doors can be open during charging. Passenger loading and unloading periods cannot be included in the charge time. Passengers can be on the airplane.

**D. Charge the Photoluminescent Strips with Airline Custom BSI Light Scene**

SUBTASK 33-51-15-860-008

- (1) Do these steps to charge the photoluminescent strips with Airline custom BSI light scene:

- (a) At the applicable attendants panel, set the Passenger Seating Area scene to White BRIGHT.

NOTE: Passenger compartment lighting is critical to the performance of the photoluminescent floor proximity system. Use the applicable maintenance procedures to properly maintain these lights.

- (b) To accomplish the initial charging of the photoluminescent strips, select the scenario illustrated in the applicable (Table 207 or Table 208)

NOTE: The following tables provide guidance on photoluminescent strip charging. It is the responsibility of the airline to coordinate approval of the following charging guidance and placard visibility when using custom scenes with their regulatory agency.

NOTE: W1 and W2 are two different colors:

W1 – cool white light source with Medium/High intensity

W2 – warm white light source with Medium/High intensity

EFFECTIVITY  
**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
 422-434, 437-447, 450-460, 464, 465; AIRPLANES  
 WITH PHOTOLUMINESCENT FLOOR PROXIMITY  
 LIGHTS**

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**LOM 427-434, 437-447, 450-460, 464, 465 (Continued)**

**Table 207/33-51-15-993-813 BSI First Flight Charging Requirement for Photoluminescent Strips (Blue Color Strips)**

Charge Scenario (Light Scene)	Photoluminescent Duration (Hours)	Remarks
First flight of the day Bins closed No passenger (Crossbin/COS/Direct W1/W2 High) * 15 minute charge	* 3.5	Close overhead bins during charging. Cabin activity is limited to minor aisle traffic of crew and personnel. Passengers will shadow the system and are not allowed on board during charging.

**Table 208/33-51-15-993-814 BSI First Flight Charging Requirement for Photoluminescent Strips (Not Blue Color Strips)**

Charge Scenario (Light Scene)	Photoluminescent Duration (Hours)	Remarks
First flight of the day Bins closed No passenger (Crossbin/COS/Direct W1/W2 High) * 15 minute charge	* 7.0	Close overhead bins during charging. Cabin activity is limited to minor aisle traffic of crew and personnel. Passengers will shadow the system and are not allowed on board during charging.

- (c) Photoluminescent duration can be extended beyond the initial charge, by using the extended charge scenarios illustrated in the applicable (Table 209 or Table 210).

NOTE: The Photoluminescent Duration times listed in (Table 209 and Table 210) differ from those listed in (Table 207 and Table 208) because of differences in the charge time starting conditions.

NOTE: The following tables provide guidance on photoluminescent strip charging. It is the responsibility of the airline to coordinate approval of the following charging guidance and placard visibility when using custom scenes with their regulatory agency.

NOTE: W1 and W2 are two different colors:

W1 – cool white light source with Medium/High intensity

W2 – warm white light source with Medium/High intensity

**Table 209/33-51-15-993-815 BSI Quick Turnaround and In-Flight Charging Requirement (Blue Color Strips)**

Charge Scenario (Light Scene)	Photoluminescent Duration (Hours)	Remarks
In-Flight Charging (Crossbin/COS/Direct W1/W2 Medium) * 15 minute charge (Crossbin/COS/Direct W1/W2 High) * 15 minute charge	* 2.5 * 3.5	Charging must begin prior to previous discharge duration ends. Strips are assumed to be shadowed during meal service by galley cart and flight attendants which are stationary for 5 minutes.

EFFECTIVITY  
**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
 422-434, 437-447, 450-460, 464, 465; AIRPLANES  
 WITH PHOTOLUMINESCENT FLOOR PROXIMITY  
 LIGHTS**

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**LOM 427-434, 437-447, 450-460, 464, 465 (Continued)**

**Table 209/33-51-15-993-815 BSI Quick Turnaround and In-Flight Charging Requirement (Blue Color Strips) (Continued)**

Charge Scenario (Light Scene)	Photoluminescent Duration (Hours)	Remarks
Quick turnaround Bin closed No passengers. (Crossbin/COS/Direct W1/W2 High)  * 15 minute charge	* 3.5	Close overhead bins during charging. Cabin activity is limited to minor aisle traffic of crew and personnel. Passengers will shadow the system and are not allowed on board during charging.

**Table 210/33-51-15-993-816 BSI Quick Turnaround and In-Flight Charging Requirement (Not Blue Color Strips)**

Charge Scenario (Light Scene)	Photoluminescent Duration (Hours)	Remarks
In-Flight Charging  (Crossbin/COS/Direct W1/W2 Medium) * 15 minute charge  (Crossbin/COS/Direct W1/W2 High) * 15 minute charge	* 3.5  * 5.0	Charging must begin prior to previous discharge duration ends. Strips are assumed to be shadowed during meal service by galley cart and flight attendants which are stationary for 5 minutes.
In-Flight Charging* - Double Charge at 3 Hours and 6.5 Hours  (Crossbin/COS/Direct W1/W2 Medium) * 15 minute charge  (Crossbin/COS/Direct W1/W2 High) * 15 minute charge	  * 6.0  * 7.5	Charging must begin prior to previous discharge duration ends. Strips are assumed to be shadowed during meal service by galley cart and flight attendants which are stationary for 5 minutes. To get double charging credit, strips must be charged within 3 hours ± 15 minutes after prior charge. The second charge must take place before 6.5 hours elapsed from initial charge.
Quick turnaround Bin closed No passengers. (Crossbin/COS/Direct W1/W2 High)  * 15 minute charge	  * 7.0	Close overhead bins during charging. Cabin activity is limited to minor aisle traffic of crew and personnel. Passengers will shadow the system and are not allowed on board during charging.

**E. Charge the Photoluminescent Strips with Attendant Control Panel Inoperative**

SUBTASK 33-51-15-860-009

- (1) Do these steps to charge the photoluminescent strips with an attendant control panel inoperative (30% Brightness - Medium White Setting)

NOTE: Passenger compartment lighting is critical to the performance of the photoluminescent floor proximity system. Use the applicable maintenance procedures to properly maintain these lights.

- (a) To accomplish the charging of the photoluminescent strips, use the table below:

**EFFECTIVITY**

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-460, 464, 465; AIRPLANES  
WITH PHOTOLUMINESCENT FLOOR PROXIMITY  
LIGHTS**

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**LOM 427-434, 437-447, 450-460, 464, 465 (Continued)**

**Table 211/33-51-15-993-817 BSI Charging Requirement for Attendant Control Panel Inoperative (30% Brightness)**

Charge Scenario (Light Scene)	Photoluminescent Duration (Hours)	Remarks
Continuous Flight	No limit with ceiling lights and sidewall lights on	If the Attendant Control Panel loses communication with the ceiling lights and sidewall lights, these lights will go to default medium white. Flight duration can be extended continuously.
First flight of the day Bins closed No passengers (White Medium) * 15 minute charge	* 7.0	Close overhead bins during charging. Cabin activity is limited to minor aisle traffic of crew and personnel. Passengers will shadow the system and are not allowed on board during charging.

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-460, 464, 465; AIRPLANES WITH PHOTOLUMINESCENT FLOOR PROXIMITY LIGHTS**

———— END OF TASK ————

**TASK 33-51-15-960-801**

**4. Floor Proximity Light - Photoluminescent Strip Replacement**

(Figure 201)

NOTE: This procedure is a scheduled maintenance task.

**A. General**

- (1) Use this procedure to replace sections or complete lengths of the photoluminescent strips [1].
  - (a) Replacement strip sections must be a minimum of 18.0 in. (457.2 mm) long.
  - (b) Overwing exit aisle strips must be replaced as one piece.

**B. References**

Reference	Title
20-30-92-910-801	Final Cleaning Prior to General Sealing (Series 92) (P/B 201)
51-31-00-160-801	Prepare For Sealing (P/B 201)

**C. 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
A50038	Adhesive - Fast-setting, 2 Part Epoxy, Medium Viscosity	BMS5-123 Type I Class 2 Clear
A50464	Tape - Vinyl, Adhesive Coated	BMS5-179
A50555	Adhesive - 2 Part Epoxy, Permabond ET500	
A50556	Adhesive - 2 Part Epoxy, Araldite Fusion	
B00083	Solvent - VM&P Naphthas	TT-N-95 Type II, ASTM D-3735 Type III
B00148	Solvent - Methyl Ethyl Ketone (MEK)	ASTM D740

EFFECTIVITY  
**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-460, 464, 465; AIRPLANES WITH PHOTOLUMINESCENT FLOOR PROXIMITY LIGHTS**

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(Continued)

Reference	Description	Specification
B00184	Solvent - Presealing, Cleaning Solvent	BMS11-7
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	AMS3819 Class 1 Grade A or B Form 1 (Supersede BMS15-5 CL A)
G02129	Tape - 223S (use until stock depleted)	
G50156	Tape - Carpet, Double-sided, 16 oz/sq. yd., Black. Storage Life 18 Months.	BMS5-133 Type II Class 2

**D. Expendables/Parts**

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Photoluminescent strip	33-51-05-55E-095	LOM 416
		33-51-05-88-155	LOM 402, 406, 407, 420
		33-51-05-88-455	LOM 411
		33-51-05-88-505	LOM 426, 432, 437, 438, 446, 447, 450, 455-457
		33-51-05-88D-010	LOM 422, 425, 433, 434, 440, 442, 453, 454
		33-51-05-88P-005	LOM 412, 415, 423, 424
		33-51-05-88T-055	LOM 427-431
		33-51-05-89-100	LOM 404
		33-51-15-01A-005	LOM 465
		33-51-15-02-005	LOM 443, 444
		33-51-15-02A-005	LOM 451, 452, 458-460
		33-51-15-04C-005	LOM 445
		33-51-15-07A-005	LOM 439, 441, 464

**E. Location Zones**

Zone	Area
200	Upper Half of Fuselage

**F. Floor Proximity Light - Photoluminescent Strip Replacement**

SUBTASK 33-51-15-960-001

- (1) Do these steps to replace the photoluminescent strips [1]:
  - (a) Use a smooth tool to separate the tape holding the light strip onto the floor panels.
  - (b) Remove the used tape that held the strip onto the floor panels.
  - (c) Clean the floor panels:
    - 1) Apply solvent, B00184, solvent, B00148, or solvent, B00083, with a clean cotton wiper, G00034.
    - 2) Rub the surface to remove the tape.
    - 3) Use a clean cotton wiper, G00034, to remove the solvent solvent, B00148, solvent, B00184, or solvent, B00083, before it evaporates.
  - (d) For the standard photoluminescent strip [1] (View A, Figure 201):

EFFECTIVITY

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-460, 464, 465; AIRPLANES  
WITH PHOTOLUMINESCENT FLOOR PROXIMITY  
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- 1) If necessary, trim the new strip to fit.

NOTE: If this is a strip or portion of strip, to be mounted between existing strips, you will want to leave room to seal the exposed ends of the new strip and still maintain the appropriate gap between each end of the existing strips.

- 2) Do this task: Prepare For Sealing, TASK 51-31-00-160-801.



**CAUTION**

SEALANT MUST NOT EXTEND OVER PERIPHERY OF PHOTOLUMINESCENT STRIP.

- 3) Carefully seal the exposed end of all strips with small beads of adhesive, A50038.

- (e) For colored photoluminescent strip [1] do these steps (View B, Figure 201):

- 1) Do these steps to prepare the new colored photoluminescent strip [1] for installation:

NOTE: If this is a strip or a portion of strip to be mounted between existing strips, you will want to leave room to seal the exposed ends of the new strip and still maintain the appropriate gap between each end of the existing strips.

NOTE: A typical colored photoluminescent strip [1] has a cover sleeve, a color filter, a photoluminescent insert, and two end caps.

- a) If the end caps are installed, remove the end caps from each end of the strip sleeve.

- b) If necessary, trim the new colored photoluminescent strip [1] to fit.

<1> Remove the color filter and photoluminescent insert in the cover sleeve.

<2> Cut the cover sleeve to the applicable length.

<3> Cut the color filter and photoluminescent insert to 0.039 in. (1.0 mm) - 0.079 in. (2.0 mm) shorter than the length of the cover sleeve.

<4> Clean the cover sleeve, color filter and photoluminescent insert from dust and unwanted material.

<5> Put the color filter and photoluminescent insert into the cover sleeve.

- 2) Do this task: Prepare For Sealing, TASK 51-31-00-160-801.

- 3) Apply small beads of Permabond ET500 epoxy adhesive, A50555, Araldite Fusion epoxy adhesive, A50556, or RTV 108 adhesive, A00635 to each end of the cover sleeve.

- 4) If the end caps were removed, install the end caps to each end of the cover sleeve.

- 5) Remove the excess Permabond ET500 epoxy adhesive, A50555, Araldite Fusion epoxy adhesive, A50556, or RTV 108 adhesive, A00635 from the colored photoluminescent strip [1].



**CAUTION**

MAKE SURE THAT YOU APPLY THE SOLVENT TO THE LIGHT STRIP. IF THE SOLVENT GETS ON THE TRACK OR THE ENDS OF THE TRACK, DAMAGE TO THE AIRPLANE CAN OCCUR.

- (f) Use a cotton wiper, G00034, dampened with solvent, B00083, to clean the new light strip (TASK 20-30-92-910-801).

- (g) Apply new tape, G50156, to the floor panel.

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-460, 464, 465; AIRPLANES  
WITH PHOTOLUMINESCENT FLOOR PROXIMITY  
LIGHTS



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- (h) Using the new piece(s) of photoluminescent strip [1] as a guide, mark the tape, G50156, where the ends of the strip will be located.

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-460, 464, 465**

- (i) Place small lateral strips of 3/4-inch wide Nitto 223S Tape, G02129, or tape, A50464, on top of the tape, G50156, so that none of that tape or any floor panel is visible between the strips.

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-460, 464, 465; AIRPLANES WITH PHOTOLUMINESCENT FLOOR PROXIMITY LIGHTS**

- (j) Place the strip in its location, maintaining the gap indicated below between the new strip and existing strips:

- 1) At the expansion joint, STA 520, maintain a 0.30 in. (7.62 mm) gap between the new strip and the adjoining strip.
- 2) At all other locations, maintain a 0.10 in. (2.54 mm) gap between the new strip and existing strips.

- (k) Press the strip down firmly along it's length to attach it in place.

SUBTASK 33-51-15-210-002

- (2) Do this task: Floor Proximity Light - Photoluminescent Strip Inspection,  
TASK 33-51-15-210-801.

———— END OF TASK ————

———— EFFECTIVITY ————  
**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-460, 464, 465; AIRPLANES  
WITH PHOTOLUMINESCENT FLOOR PROXIMITY  
LIGHTS**

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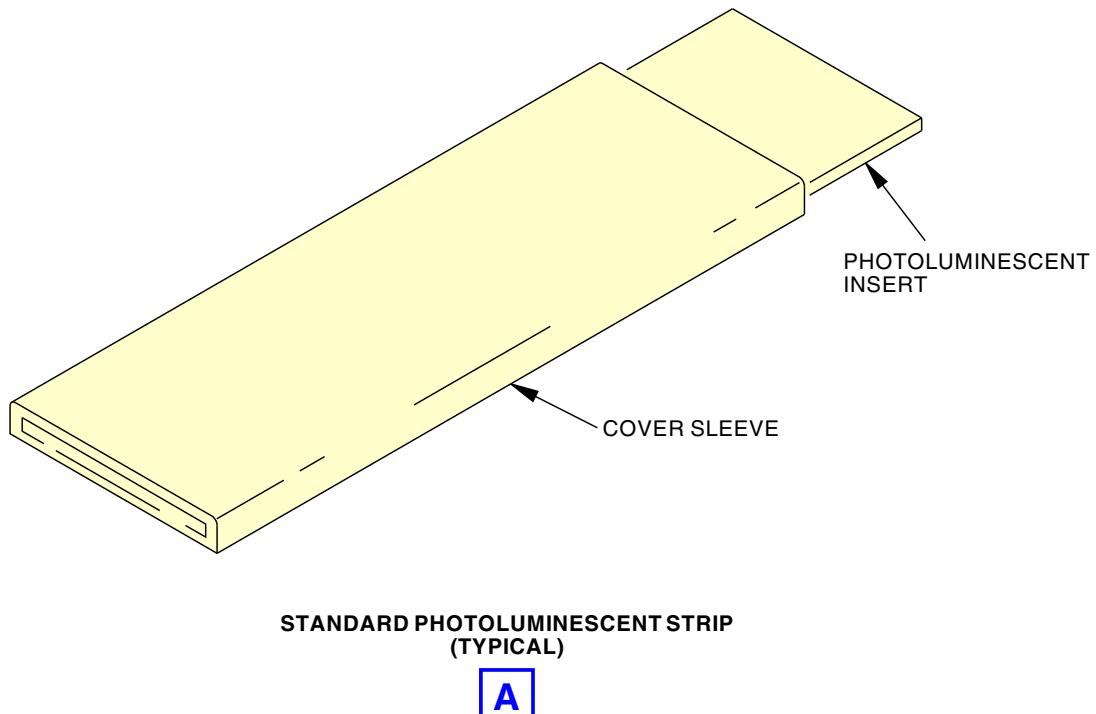
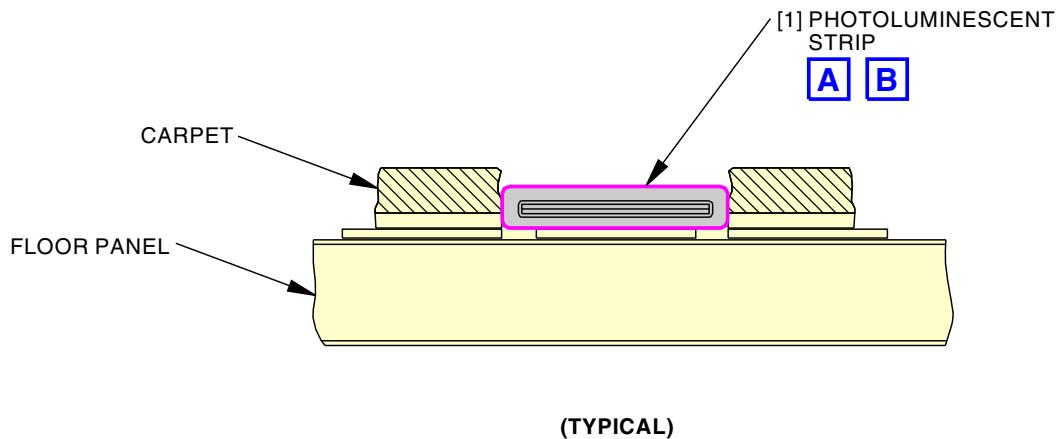
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**Floor Proximity Light - Photoluminescent Strip Replacement**  
Figure 201/33-51-15-990-804 (Sheet 1 of 2)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-460, 464, 465; AIRPLANES  
WITH PHOTOLUMINESCENT FLOOR PROXIMITY  
LIGHTS

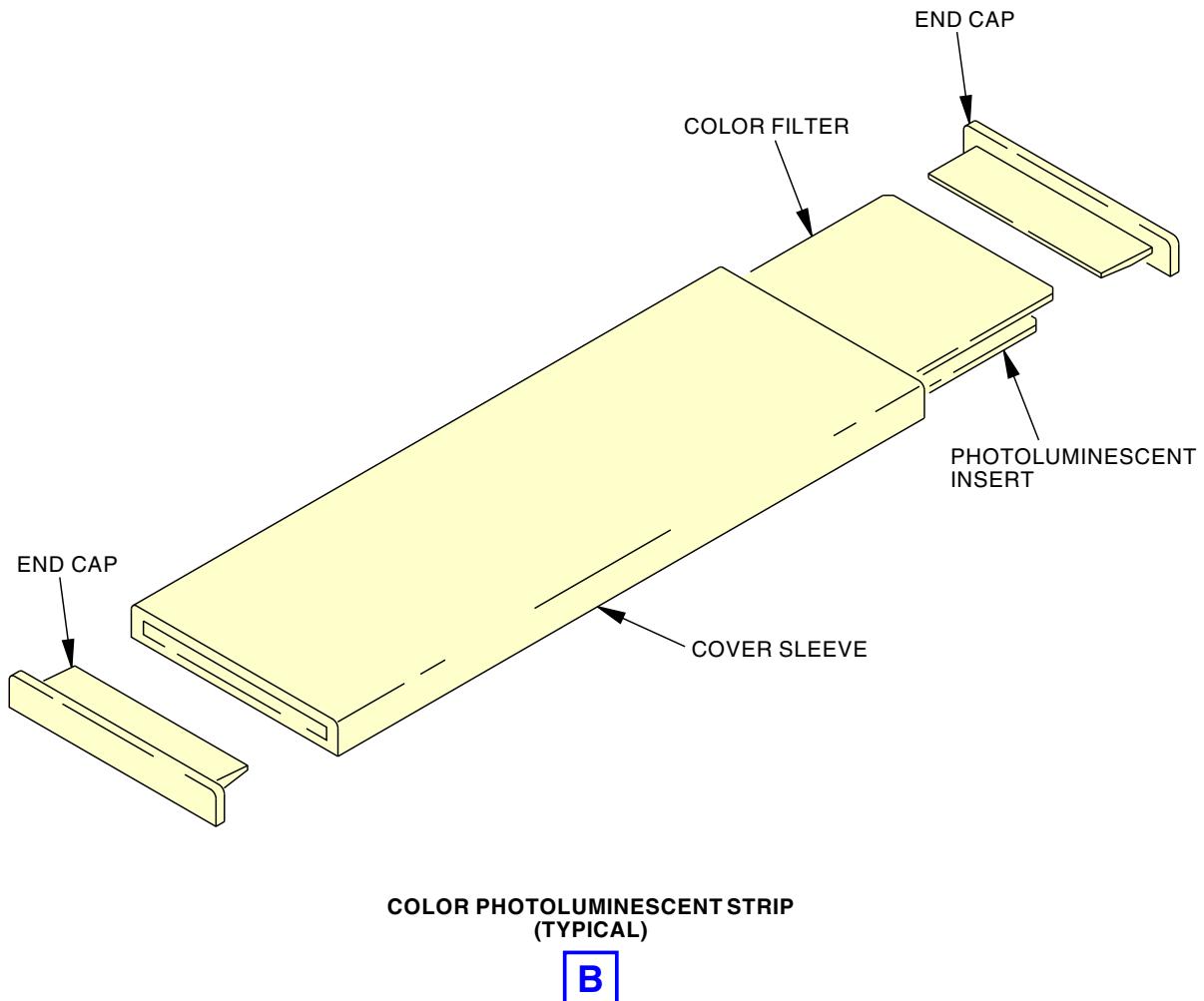
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**BOEING**  
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**Floor Proximity Light - Photoluminescent Strip Replacement**  
Figure 201/33-51-15-990-804 (Sheet 2 of 2)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-460, 464, 465; AIRPLANES  
WITH PHOTOLUMINESCENT FLOOR PROXIMITY  
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**TASK 33-51-15-100-801**

**5. Floor Proximity Light - Photoluminescent Strip Cleaning**

**A. Consumable Materials**

Reference	Description	Specification
B00083	Solvent - VM&P Naphthas	TT-N-95 Type II, ASTM D-3735 Type III
B00541	Cleaner - General Purpose Household Detergent	

**B. Location Zones**

Zone	Area
200	Upper Half of Fuselage

**C. Procedure**

**SUBTASK 33-51-15-100-001**

- (1) Do this task to clean installed photoluminescent strips.
  - (a) Use a cloth dampened with general purpose household detergent cleaner, B00541, and water and clean the strips.
  - (b) If a stronger cleaner is necessary, use a cloth dampened with solvent, B00083, and clean the strips.

**SUBTASK 33-51-15-410-001**

- (2) If it is necessary to remove photoluminescent strips to clean unwanted material, do these tasks:
  - (a) Do an inspection of the removed strips (TASK 33-51-15-210-801).
  - (b) Install the strips (TASK 33-51-15-960-801).

———— END OF TASK ————

**TASK 33-51-15-210-801**

**6. Floor Proximity Light - Photoluminescent Strip Inspection**

**A. Location Zones**

Zone	Area
200	Upper Half of Fuselage

**B. Floor Proximity Light - Photoluminescent Strip Inspection**

**SUBTASK 33-51-15-210-001**

- (1) Do these steps to inspect the light strips:
  - (a) Examine the photoluminescent strips for damage.
    - 1) Make sure that all photoluminescent strips are operational.
  - (b) If the strips are dirty, do this task: Floor Proximity Light - Photoluminescent Strip Cleaning, TASK 33-51-15-100-801.
  - (c) For not operational sections of light strip that cannot be cleaned to give out light, do this task: Floor Proximity Light - Photoluminescent Strip Replacement, TASK 33-51-15-960-801.

———— END OF TASK ————

———— EFFECTIVITY ————

LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-460, 464, 465; AIRPLANES  
WITH PHOTOLUMINESCENT FLOOR PROXIMITY  
LIGHTS

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FLOOR PROXIMITY LIGHTS, CABIN LIGHT INTENSITY - ADJUSTMENT/TEST

**1. General**

- A. This procedure has this task:
- (1) A measurement of the Cabin Lighting Available Light Intensity.

**TASK 33-51-15-860-802**

**2. Cabin Lighting - Measure the Available Light Intensity**

(Figure 501)

NOTE: This procedure is a scheduled maintenance task.

**A. General**

- (1) The photoluminescent floor proximity strips are energized when light is present. This procedure measures the amount of light available to provide the charge for those strips.
- (2) Depending on the type of light-meter selected, these conversion factors will allow readings in Foot-Candles (Fc) or Lux to be used:
  - (a)  $Fc \times 10.764 = Lux$
  - (b)  $Lux \times 0.0929 = Fc$

**B. References**

Reference	Title
33-51-15-860-801	Floor Proximity Light - Charge the Photoluminescent Strips (P/B 201)
SSM 33-21-11	System Schematics Manual
WDM 33-22-11	Wiring Diagram Manual

**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-11030	Sensor - Illuminance (Photometric) Part #: U23-01-101 Supplier: 23673
COM-11031	Meter - Light (Photometer) Part #: U68188 Supplier: 23673
COM-23586	Meter - Light (with Light Sensor) Part #: EA33 Supplier: 093V7 Part #: XRP-3000 Supplier: 8W1E4

**D. Consumable Materials**

Reference	Description	Specification
G00270	Tape - Scotch Flatback Masking 250	ASTM D6123 (Supersedes A-A-883)

**E. Location Zones**

Zone	Area
200	Upper Half of Fuselage

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-460, 464, 465; AIRPLANES  
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#### **F. Cabin Lighting Measure the Available Light Intensity**

SUBTASK 33-51-15-860-004

- (1) Prepare to measure the cabin light intensity:

  - (a) Move the airplane out of direct sunlight or daylight conditions.  
NOTE: You can move the airplane inside a hanger or take the readings at night.
  - (b) Make sure that the airplane interior is in fully operational passenger provisions configuration.  
NOTE: Provisions to include all seats, bins, galleys, lavs, etc. installed for normal use.
  - (c) Do these steps to mark light intensity measurement points on the aisleway carpet (Figure 501):
    - 1) Place a piece of Scotch Flatback Masking Tape 250, G00270, centered between the photoluminescent strips, on the aisleway carpet at the centerline of the forward cabin door.

**Table 501/33-51-15-993-818 Floor Proximity Lights - Cabin Light Intensity Test Light Meter Readings-Data Sheet**

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## EFFECTIVITY

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-460, 464, 465; AIRPLANES  
WITH PHOTOLUMINESCENT FLOOR PROXIMITY  
LIGHTS**

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**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-460, 464, 465 (Continued)**

**Table 501/33-51-15-993-818 Floor Proximity Lights - Cabin Light Intensity Test Light Meter Readings-Data Sheet (Continued)**

MEASUREMENT POINT	MEASURED LIGHT (LUX)	
	LEFT SIDE	RIGHT SIDE
SUBTOTAL THIS PAGE:		
SUBTOTAL PREVIOUS PAGE:		
OVERALL TOTAL:		
AVERAGE (LAST PAGE ONLY):		

- (e) Set the lights for the cabin light level test:

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426; AIRPLANES WITHOUT BSI LED LIGHTS**

NOTE: You will notice that the lights activated for this test differ from those in Floor Proximity Light - Charge the Photoluminescent Strips, TASK 33-51-15-860-801.

- 1) At the applicable attendants panel, set the switch for the fluorescent ceiling lights to the on or bright mode (WDM 33-22-11).
- 2) At the applicable attendants panel, set the switch for the window or sidewall lights to the off mode (SSM 33-21-11).

**LOM 427-434, 437-447, 450-460, 464, 465; AIRPLANES WITH BSI LED LIGHTS**

- 3) At the applicable attendant control panel, set the Passenger Seating Area to the White Bright scene.

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-460, 464, 465**

- 4) Set all reading lights to the off mode.
- 5) Close all window shades, lavatory doors, cabin egress doors, and all overhead bin doors.

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-460, 464, 465; AIRPLANES WITH PHOTOLUMINESCENT FLOOR PROXIMITY LIGHTS**

- (f) Make sure that the Forward and AFT Entry lights, Forward and AFT attendant work lights, and Galley area lights are off.
- (g) Maintain the above conditions for 30 minutes minimum to stabilize the light source.

**EFFECTIVITY**

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-460, 464, 465; AIRPLANES WITH PHOTOLUMINESCENT FLOOR PROXIMITY LIGHTS**

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

SUBTASK 33-51-15-860-005

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-460, 464, 465**

- (2) Do these steps to measure the light intensity throughout the passenger cabin (Figure 501):

NOTE: One person should perform the tests while another person records the data.

- (a) Use the light meter, COM-11031, in combination with the illuminance photometric sensor, COM-11030, or the standalone light meter, COM-23586.

- 1) If the light meter, COM-11031, and the illuminance photometric sensor, COM-11030, are used, do these steps:

a) Connect the cable from the light meter, COM-11031, to illuminance photometric sensor, COM-11030.

b) Turn the light meter, COM-11031, on.

c) Set the light meter, COM-11031, to the following settings:

<1> 0 to 200 Lux Range (or approximately 0 to 20 Fc)

<2> Daylight Mode (if applicable)

<3> Zero or initialize (if it is necessary).

- (b) Do these steps to measure the light intensity:

- 1) Place the light meter, COM-23586, or the illuminance photometric sensor, COM-11030, that was previously connected to the light meter, COM-11031, on the light strip on one side of the aisle at the point to be measured.

NOTE: The sensor points up toward the cabin ceiling.

- 2) Make sure that no object is in the path of the light to the light meter, COM-23586, or illuminance photometric sensor, COM-11030.

- 3) Record the measurement point number and the light level value on the data sheet, (Table 501).

- 4) Move the light meter, COM-23586, or illuminance photometric sensor, COM-11030, onto the strip on the other side of the aisle and measure and record the light level value on the data sheet for that side of the aisle.

- (c) Do the above steps for other points along the cabin floor.

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-460, 464, 465; AIRPLANES WITH PHOTOLUMINESCENT FLOOR PROXIMITY LIGHTS**

SUBTASK 33-51-15-970-001

- (3) Calculate the average light level in the passenger cabin:

- (a) Add all the recorded readings from all data sheets for values measured on each side of the aisle and record those totals on the last sheet.

NOTE: You will have two totals, one for the right side and one for the left side.

- (b) Divide each total by the number of readings taken for that side.

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-426; AIRPLANES WITHOUT BSI LED LIGHTS**

- (c) Make sure that the average value for each side is 40 Lux (3.716 Fc) minimum.

- 1) If you do not get 40 Lux (3.716 Fc) minimum, then clean the light lens or replace the applicable lamp.

**LOM 427-434, 437-447, 450-460, 464, 465; AIRPLANES WITH BSI LED LIGHTS**

- (d) Make sure that the average value for each side is 30 Lux (2.787 Fc) minimum.

EFFECTIVITY  
**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-460, 464, 465; AIRPLANES  
WITH PHOTOLUMINESCENT FLOOR PROXIMITY  
LIGHTS**



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AIRCRAFT MAINTENANCE MANUAL**

**LOM 427-434, 437-447, 450-460, 464, 465; AIRPLANES WITH BSI LED LIGHTS (Continued)**

- 1) If you do not get 30 Lux (2.787 Fc) minimum, then clean the light lens or replace the applicable light assembly.

**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420, 422-434, 437-447, 450-460, 464, 465; AIRPLANES  
WITH PHOTOLUMINESCENT FLOOR PROXIMITY LIGHTS**

SUBTASK 33-51-15-860-010

- (4) Remove the Scotch Flatback Masking Tape 250, G00270.

———— END OF TASK ————

— EFFECTIVITY —  
**LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-460, 464, 465; AIRPLANES  
WITH PHOTOLUMINESCENT FLOOR PROXIMITY  
LIGHTS**

ECCN 9E991 BOEING PROPRIETARY - See title page for details

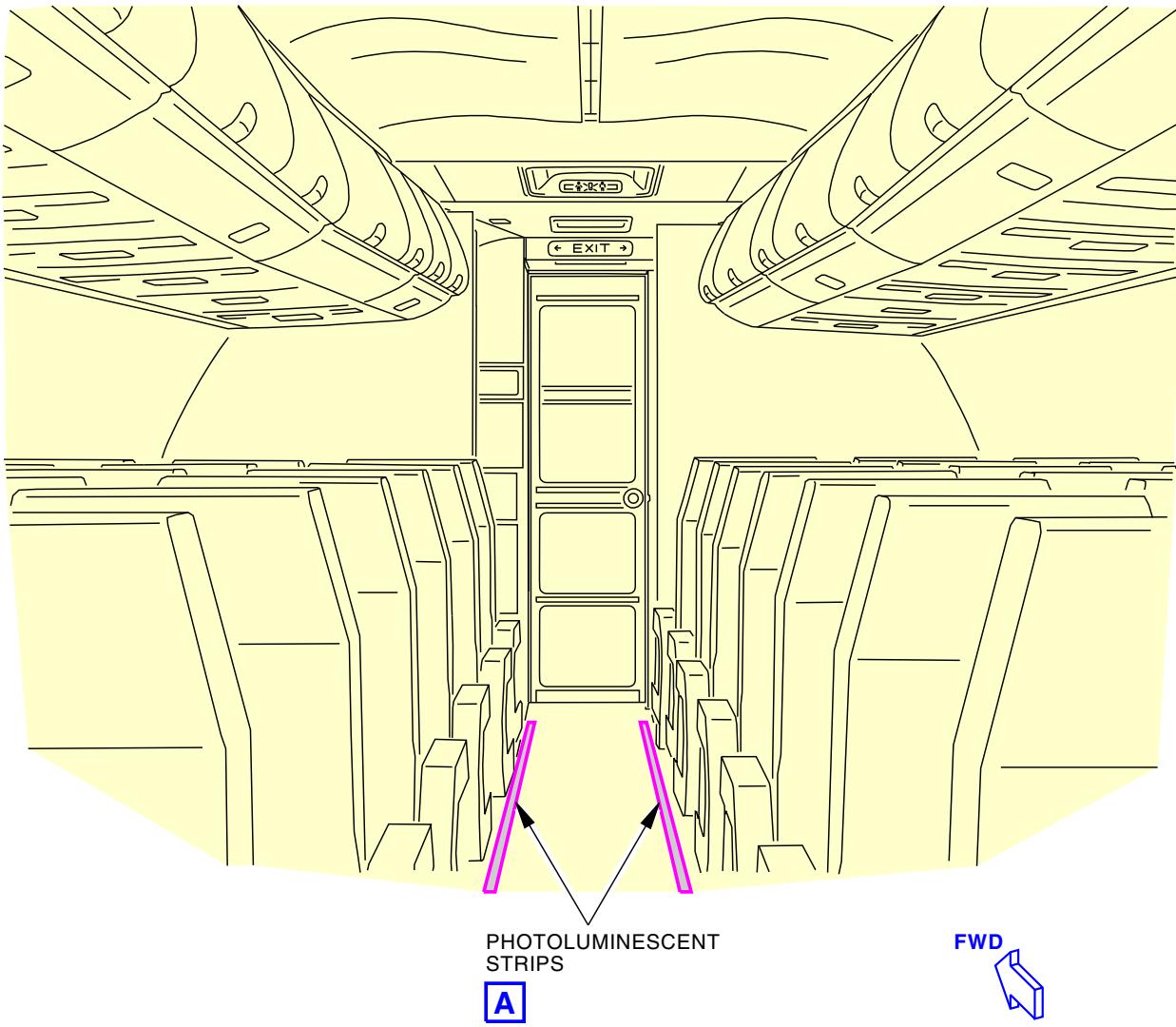
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**33-51-15**

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AIRCRAFT MAINTENANCE MANUAL



PASSENGER COMPARTMENT

M24250 S0006576445\_V2

Floor Proximity Lights - Cabin Light Intensity Test  
Figure 501/33-51-15-990-801 (Sheet 1 of 3)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-426; AIRPLANES WITHOUT BSI LED LIGHTS

**33-51-15**

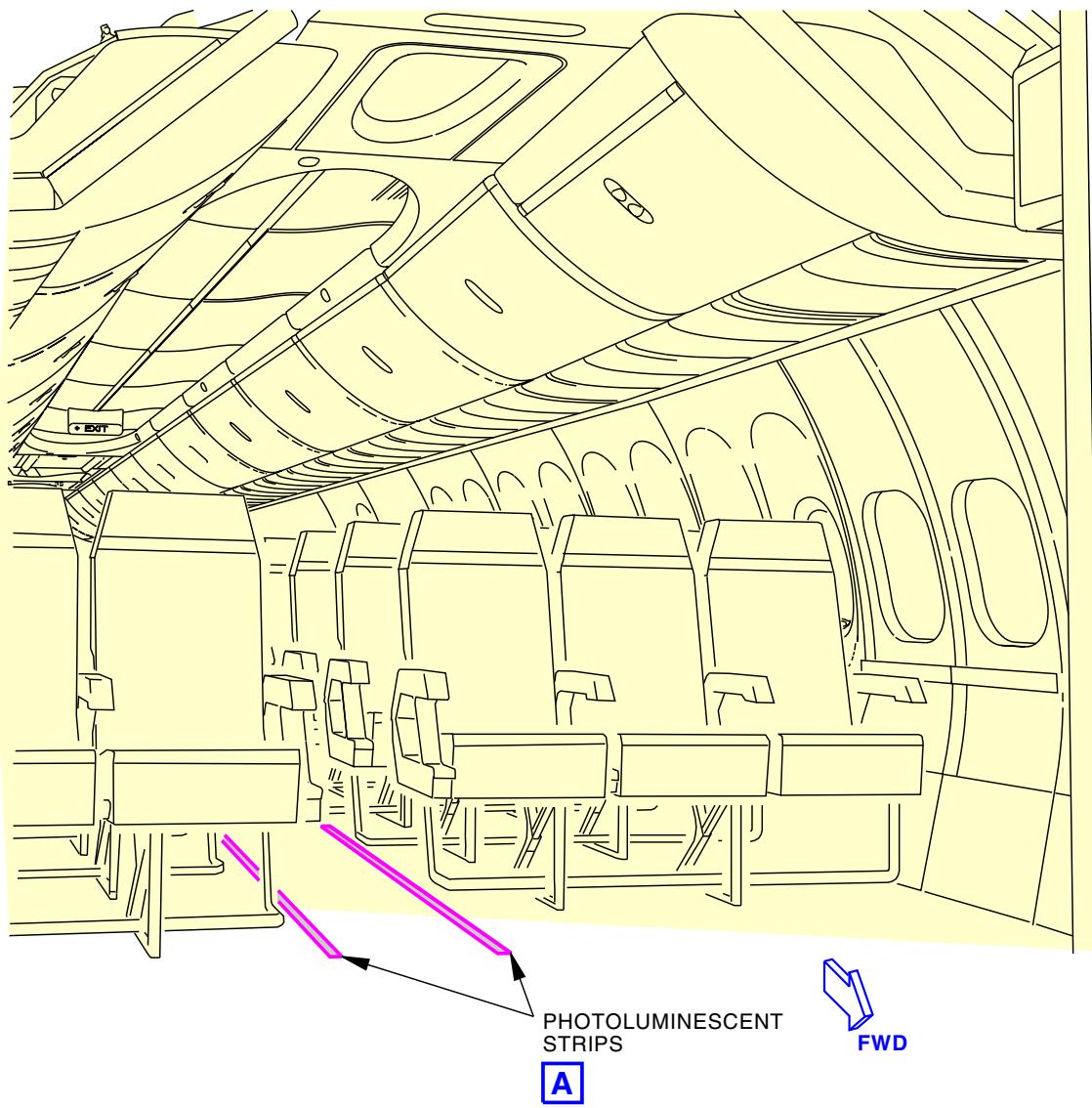
D633A101-LOM

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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PASSENGER COMPARTMENT  
(EXAMPLE)

2207793 S0000492775\_V2

Floor Proximity Lights - Cabin Light Intensity Test  
Figure 501/33-51-15-990-801 (Sheet 2 of 3)

EFFECTIVITY  
LOM 427-434, 437-447, 450-460, 464, 465;  
AIRPLANES WITH BSI LED LIGHTS

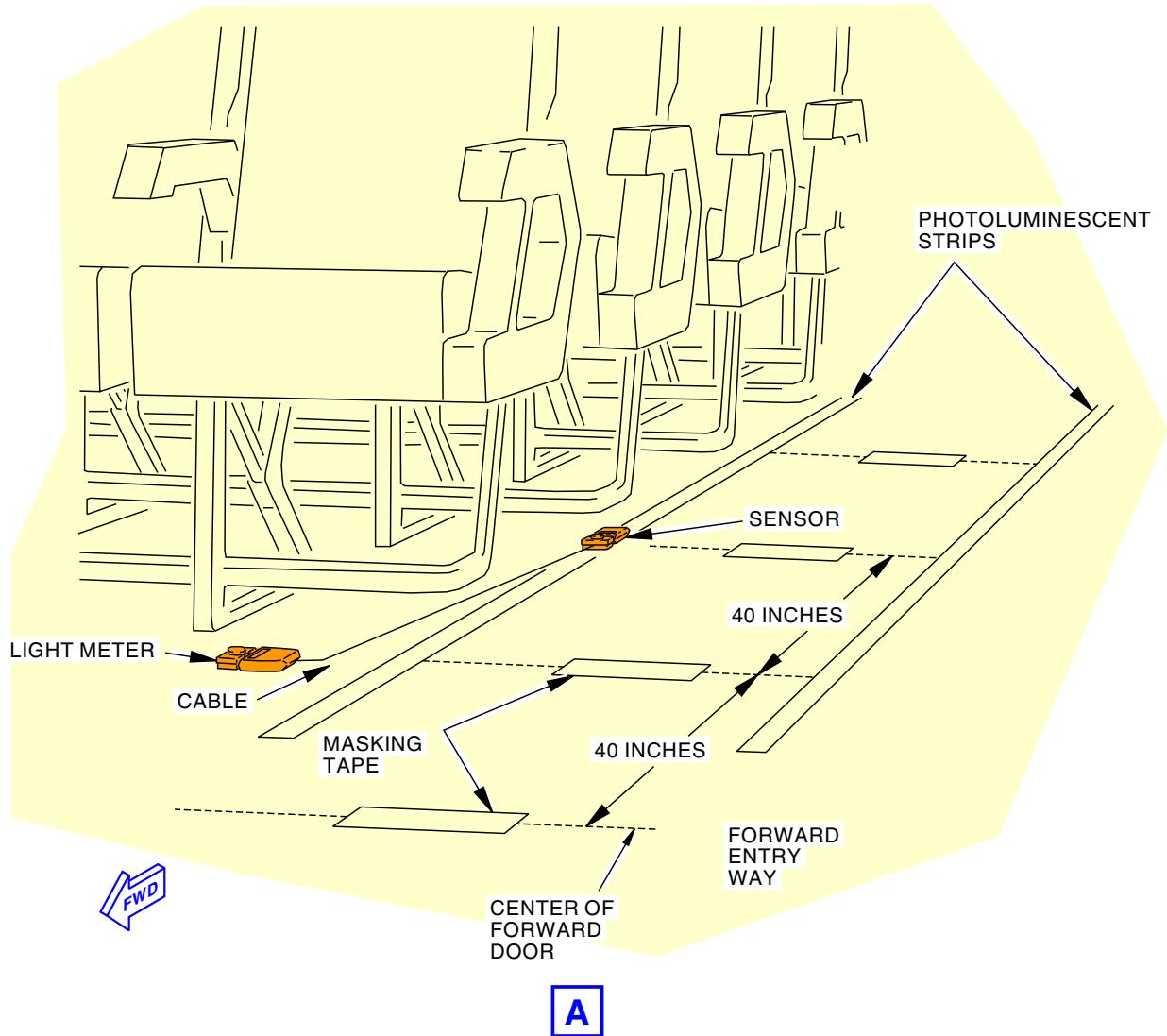
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AIRCRAFT MAINTENANCE MANUAL



1 SENSOR POINTS UP TO CABIN CEILING.

M24257 S0006576446\_V5

**Floor Proximity Lights - Cabin Light Intensity Test**  
Figure 501/33-51-15-990-801 (Sheet 3 of 3)

EFFECTIVITY  
LOM 402, 404, 406, 407, 411, 412, 415, 416, 420,  
422-434, 437-447, 450-460, 464, 465; AIRPLANES  
WITH PHOTOLUMINESCENT FLOOR PROXIMITY  
LIGHTS

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