

CHAPTER

33

LIGHTS



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1	Feb 15/2015		213	Feb 15/2015		218	Jun 15/2015	
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O 3	Jun 15/2016		215	Jun 15/2015		220	Oct 15/2015	
O 4	Jun 15/2016		216	Oct 15/2015		221	Jun 15/2015	
O 5	Jun 15/2016		217	Jun 15/2015		222	Jun 15/2015	
O 6	Jun 15/2016		218	Jun 15/2015		223	Oct 15/2015	
O 7	Jun 15/2016		219	Oct 15/2015		224	Oct 15/2015	
O 8	Jun 15/2016		220	Jun 15/2015		225	Jun 15/2015	
O 9	Jun 15/2016		221	Jun 15/2015		226	Jun 15/2015	
O 10	Jun 15/2016		222	Oct 15/2015		227	Jun 15/2015	
O 11	Jun 15/2016		223	Jun 15/2015		228	Jun 15/2015	
O 12	Jun 15/2016		224	Jun 15/2015		229	Oct 15/2015	
13	Jun 15/2015		225	Oct 15/2015		230	Jun 15/2015	
14	Feb 15/2016		226	Jun 15/2015		231	Jun 15/2015	
15	Feb 15/2016		227	Jun 15/2015		232	Oct 15/2015	
O 16	Jun 15/2016		228	Oct 15/2015		233	Jun 15/2015	
O 17	Jun 15/2016	A	229	Jun 15/2016		234	BLANK	
18	BLANK	A	230	Jun 15/2016		33-17-00		
33-00-00			33-14-00			201	Feb 15/2015	
901	Oct 15/2014		201	Feb 15/2015		202	Feb 15/2015	
902	Jun 15/2015		202	Feb 15/2015		203	Oct 15/2015	
903	Jun 15/2015		203	Oct 15/2015		204	Oct 15/2015	
904	BLANK		204	Oct 15/2015		205	Oct 15/2015	
33-11-00			205	Oct 15/2015		206	Jun 15/2015	
R 201	Jun 15/2016		206	Oct 15/2015		207	Jun 15/2015	
R 202	Jun 15/2016		207	Oct 15/2015		208	Oct 15/2015	
R 203	Jun 15/2016		208	Oct 15/2015		R 209	Jun 15/2016	
R 204	Jun 15/2016		209	Jun 15/2015		210	Jun 15/2015	
O 205	Jun 15/2016		210	Oct 15/2015		211	Oct 15/2015	
O 206	Jun 15/2016		211	Oct 15/2015		212	Jun 15/2015	
207	Oct 15/2015	R	212	Jun 15/2016		213	Oct 15/2015	
208	Jun 15/2015		213	Jun 15/2015		214	Oct 15/2015	
209	Jun 15/2015		214	Oct 15/2015				
210	Jun 15/2015		215	Feb 15/2015				

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R 201	Jun 15/2016		506	Jun 15/2015		218	Oct 15/2015	
O 202	Jun 15/2016		507	Oct 15/2015		219	Jun 15/2015	
203	Oct 15/2015		508	Oct 15/2015		220	Jun 15/2015	
R 204	Jun 15/2016		509	Jun 15/2015		221	Oct 15/2015	
O 205	Jun 15/2016		510	Jun 15/2015		222	Oct 15/2015	
O 206	Jun 15/2016		33-21-00			R 223	Jun 15/2016	
O 207	Jun 15/2016		201	Oct 15/2014		R 224	Jun 15/2016	
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O 209	Jun 15/2016		203	Oct 15/2015		226	Oct 15/2015	
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O 211	Jun 15/2016		205	Jun 15/2015		228	Oct 15/2015	
O 212	Jun 15/2016		R 206	Jun 15/2016		229	Oct 15/2015	
O 213	Jun 15/2016		207	Jun 15/2015		230	BLANK	
O 214	Jun 15/2016		208	Oct 15/2015		33-23-00		
O 215	Jun 15/2016		209	Jun 15/2015		201	Feb 15/2015	
O 216	Jun 15/2016		210	Oct 15/2014		202	Feb 15/2016	
O 217	Jun 15/2016		211	Jun 15/2015		203	Oct 15/2015	
O 218	Jun 15/2016		212	Oct 15/2015		204	Feb 15/2016	
O 219	Jun 15/2016		33-22-00			205	Feb 15/2016	
O 220	Jun 15/2016		201	Oct 15/2014		206	Jun 15/2015	
O 221	Jun 15/2016		202	Feb 15/2015		207	Feb 15/2016	
O 222	Jun 15/2016		203	Oct 15/2015		208	Oct 15/2015	
O 223	Jun 15/2016		204	Feb 15/2015		209	Oct 15/2015	
O 224	Jun 15/2016		205	Feb 15/2015		210	Feb 15/2016	
O 225	Jun 15/2016		206	Oct 15/2014		R 211	Jun 15/2016	
O 226	Jun 15/2016		207	Oct 15/2015		O 212	Jun 15/2016	
O 227	Jun 15/2016		208	Feb 15/2015		213	Oct 15/2015	
O 228	Jun 15/2016		209	Jun 15/2015		214	Oct 15/2015	
A 229	Jun 15/2016		R 210	Jun 15/2016		33-25-00		
A 230	BLANK		211	Jun 15/2015		201	Jun 15/2015	
33-20-00 Config 1			212	Oct 15/2015		202	Jun 15/2015	
501	Oct 15/2015		213	Oct 15/2015		203	Oct 15/2015	
R 502	Jun 15/2016		214	Jun 15/2015		204	Oct 15/2015	
R 503	Jun 15/2016		215	Oct 15/2014		R 205	Jun 15/2016	
504	Feb 15/2015		216	Jun 15/2015		R 206	Jun 15/2016	
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209	Oct 15/2015		204	Jun 15/2015		202	Feb 15/2015	
210	Oct 15/2015		205	Oct 15/2015		203	Oct 15/2015	
211	Oct 15/2015		206	Oct 15/2015		204	Oct 15/2015	
R 212	Jun 15/2016		207	Oct 15/2015		205	Oct 15/2015	
R 213	Jun 15/2016		208	Jun 15/2015		206	Jun 15/2015	
R 214	Jun 15/2016		209	Jun 15/2015		207	Jun 15/2015	
A 215	Jun 15/2016		210	Oct 15/2015		208	Jun 15/2015	
A 216	Jun 15/2016		211	Oct 15/2015		209	Oct 15/2015	
33-26-01			212	Oct 15/2015		210	Oct 15/2015	
201	Feb 15/2015		213	Jun 15/2015		211	Oct 15/2015	
202	Feb 15/2015		214	Jun 15/2015		212	Oct 15/2015	
203	Oct 15/2015		215	Oct 15/2015		213	Oct 15/2015	
204	Jun 15/2015		216	Jun 15/2015		214	Jun 15/2015	
205	Jun 15/2015		217	Jun 15/2015		33-33-00		
206	Jun 15/2015		218	Oct 15/2015		201	Feb 15/2015	
207	Oct 15/2015		219	Oct 15/2015		202	Feb 15/2015	
208	Oct 15/2015		220	Jun 15/2015		203	Oct 15/2015	
209	Jun 15/2015		221	Feb 15/2015		R 204	Jun 15/2016	
R 210	Jun 15/2016		222	Oct 15/2015		205	Jun 15/2015	
211	Oct 15/2015	33-27-00				206	Jun 15/2015	
212	Oct 15/2015		201	Feb 15/2015		207	Jun 15/2015	
33-26-02			202	Oct 15/2015		208	Jun 15/2015	
201	Feb 15/2015		203	Oct 15/2015		209	Oct 15/2015	
202	Jun 15/2015		204	Oct 15/2015		210	Oct 15/2015	
203	Jun 15/2015		205	Feb 15/2015		211	Oct 15/2015	
204	Oct 15/2015		206	Jun 15/2015		212	Oct 15/2015	
205	Oct 15/2015		207	Oct 15/2015		33-34-00		
206	Jun 15/2015		208	Jun 15/2015		201	Jun 15/2015	
207	Jun 15/2015		209	Jun 15/2015		202	Jun 15/2015	
208	Oct 15/2015		210	Oct 15/2015		203	Oct 15/2015	
209	Oct 15/2015	33-29-00				204	Oct 15/2015	
210	Oct 15/2015		R 201	Jun 15/2016		205	Jun 15/2015	
33-26-03			202	Jun 15/2015		206	Jun 15/2015	
R 201	Jun 15/2016		203	Oct 15/2015		207	Jun 15/2015	
202	Oct 15/2015		204	BLANK		208	Oct 15/2015	

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209	Oct 15/2015		213	Oct 15/2015		205	Feb 15/2016	
210	Oct 15/2015		214	Feb 15/2016		206	Jun 15/2015	
211	Jun 15/2015		215	Oct 15/2015		207	Jun 15/2015	
212	Jun 15/2015		216	Oct 15/2015		208	Oct 15/2015	
213	Oct 15/2015		217	Oct 15/2015		209	Oct 15/2015	
214	Oct 15/2015		218	Feb 15/2016		210	Oct 15/2015	
215	Oct 15/2015		219	Feb 15/2016		211	Feb 15/2016	
216	BLANK		220	Feb 15/2016		212	Jun 15/2015	
33-35-00			221	Oct 15/2015		213	Jun 15/2015	
201	Feb 15/2015		222	Oct 15/2015		214	Oct 15/2015	
202	Feb 15/2015		223	Oct 15/2015		215	Oct 15/2015	
203	Oct 15/2015		224	Oct 15/2015		216	Oct 15/2015	
204	Oct 15/2015		225	Oct 15/2015		217	Oct 15/2015	
205	Oct 15/2015		226	Oct 15/2015		218	Jun 15/2015	
206	Jun 15/2015	33-41-00				219	Oct 15/2015	
207	Jun 15/2015		201	Feb 15/2015		220	Oct 15/2015	
208	Jun 15/2015		202	Jun 15/2015		221	Oct 15/2015	
209	Oct 15/2015	R	203	Jun 15/2016		222	Jun 15/2015	
210	Oct 15/2015		204	Oct 15/2015		223	Oct 15/2015	
211	Oct 15/2015		205	Oct 15/2015		224	Oct 15/2015	
212	Oct 15/2015		206	Oct 15/2015		225	Oct 15/2015	
213	Oct 15/2015		207	Jun 15/2015		226	Jun 15/2015	
214	BLANK		208	Jun 15/2015		227	Jun 15/2015	
33-36-00			209	Oct 15/2015		228	Oct 15/2015	
201	Jun 15/2015		210	Oct 15/2015		229	Oct 15/2015	
202	Jun 15/2015		211	Oct 15/2015		230	Oct 15/2015	
203	Oct 15/2015		212	Feb 15/2015		231	Jun 15/2015	
204	Jun 15/2015		213	Oct 15/2015		232	Oct 15/2015	
205	Oct 15/2015		214	Oct 15/2015		233	Oct 15/2015	
206	Oct 15/2015		215	Jun 15/2015		234	Oct 15/2015	
207	Oct 15/2015		216	BLANK		235	Oct 15/2015	
208	Oct 15/2015	33-42-01				236	BLANK	
209	Oct 15/2015		201	Jun 15/2015		33-42-01		
210	Oct 15/2015		202	Jun 15/2015		501	Oct 15/2015	
211	Oct 15/2015		203	Oct 15/2015		502	Oct 15/2015	
212	Oct 15/2015		204	Jun 15/2015				

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201	Jun 15/2015		218	BLANK		601	Jun 15/2015	
202	Oct 15/2015		33-43-11			R 602	Jun 15/2016	
203	Jun 15/2015		201	Jun 15/2015		603	Oct 15/2014	
204	Jun 15/2015		202	Jun 15/2015		604	Oct 15/2015	
205	Jun 15/2015		203	Oct 15/2015		33-44-00		
206	Oct 15/2015		204	Oct 15/2015		201	Feb 15/2015	
207	Oct 15/2015		205	Oct 15/2015		202	Oct 15/2015	
208	Jun 15/2015		206	Jun 15/2015		203	Feb 15/2015	
209	Oct 15/2015		207	Oct 15/2014		204	BLANK	
210	Jun 15/2015		208	Jun 15/2015		33-44-00		
211	Jun 15/2015		209	Oct 15/2015		501	Jun 15/2015	
212	Oct 15/2015		210	Oct 15/2015		502	Jun 15/2015	
213	Oct 15/2015		211	Oct 15/2015		503	Oct 15/2015	
214	Jun 15/2015		212	Oct 15/2015		504	BLANK	
215	Jun 15/2015		213	Feb 15/2016		33-44-01		
216	Jun 15/2015		214	Feb 15/2016		201	Jun 15/2015	
217	Oct 15/2015		215	Oct 15/2015		202	Feb 15/2015	
218	Oct 15/2015		216	Oct 15/2015		203	Jun 15/2015	
33-43-10			217	Oct 15/2015		204	Oct 15/2015	
201	Feb 15/2015		218	Oct 15/2015		205	Oct 15/2015	
202	Jun 15/2015		33-43-12			206	Oct 15/2015	
R 203	Jun 15/2016		201	Feb 15/2015		207	Jun 15/2015	
204	Jun 15/2015		202	Oct 15/2015		208	Jun 15/2015	
R 205	Jun 15/2016		203	Jun 15/2015		209	Oct 15/2015	
206	Oct 15/2015		204	Feb 15/2015		210	Oct 15/2015	
207	Jun 15/2015		205	Jun 15/2015		211	Oct 15/2015	
208	Feb 15/2015		206	Oct 15/2015		R 212	Jun 15/2016	
209	Jun 15/2015		207	Oct 15/2015		213	Feb 15/2016	
210	Oct 15/2015		208	Oct 15/2015		214	Oct 15/2015	
211	Oct 15/2015		209	Oct 15/2015		215	Oct 15/2015	
212	Jun 15/2015		210	Feb 15/2015		R 216	Jun 15/2016	
213	Feb 15/2015		211	Jun 15/2015		217	Jun 15/2015	
R 214	Jun 15/2016		212	Oct 15/2015		218	Oct 15/2015	
215	Oct 15/2015		213	Oct 15/2015		219	Oct 15/2015	
216	Jun 15/2015		214	BLANK		220	Feb 15/2016	
217	Jun 15/2015					221	Jun 15/2015	

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223	Feb 15/2015		202	Feb 15/2016		225	Oct 15/2015	
224	Feb 15/2015		203	Oct 15/2015		226	Jun 15/2015	
225	Oct 15/2015		204	Oct 15/2015		227	Feb 15/2015	
226	Feb 15/2016		205	Oct 15/2015		228	Jun 15/2015	
227	Jun 15/2015		206	Feb 15/2015		229	Oct 15/2015	
228	Feb 15/2015		207	Jun 15/2015		230	Oct 15/2015	
229	Feb 15/2015		208	Oct 15/2015		231	Jun 15/2015	
230	Feb 15/2015		209	Oct 15/2015		232	Jun 15/2015	
231	Oct 15/2015		210	Jun 15/2015		233	Jun 15/2015	
232	BLANK		211	Oct 15/2015		234	Oct 15/2015	
33-44-02			212	BLANK		235	Oct 15/2015	
201	Jun 15/2015		33-44-13			236	Jun 15/2015	
202	Jun 15/2015		201	Jun 15/2015		237	Jun 15/2015	
203	Oct 15/2015	R	202	Jun 15/2016		238	Oct 15/2015	
204	Oct 15/2015		203	Jun 15/2015		239	Jun 15/2015	
205	Oct 15/2015		204	Oct 15/2015		240	Jun 15/2015	
206	Oct 15/2015		205	Oct 15/2015	R	241	Jun 15/2016	
207	Feb 15/2016		206	Oct 15/2015		242	BLANK	
208	Feb 15/2016		207	Jun 15/2015		33-45-01		
209	Feb 15/2016		208	Feb 15/2016		201	Jun 15/2015	
210	Jun 15/2015		209	Jun 15/2015		202	Oct 15/2015	
211	Feb 15/2016		210	Feb 15/2016		203	Oct 15/2015	
212	Feb 15/2016		211	Feb 15/2016		204	Jun 15/2015	
213	Feb 15/2016		212	Feb 15/2016		205	Jun 15/2015	
R 214	Jun 15/2016		213	Feb 15/2015		206	Oct 15/2015	
R 215	Jun 15/2016		214	Jun 15/2015		207	Oct 15/2015	
216	Feb 15/2016		215	Oct 15/2015		208	Jun 15/2015	
217	Feb 15/2016	R	216	Jun 15/2016		209	Jun 15/2015	
218	Jun 15/2015		217	Feb 15/2015		210	Oct 15/2015	
219	Jun 15/2015		218	Oct 15/2015		211	Oct 15/2015	
220	Oct 15/2015		219	Oct 15/2015	R	212	Jun 15/2016	
221	Oct 15/2015		220	Jun 15/2015		R 213	Jun 15/2016	
222	BLANK	O	222	Jun 15/2016		O 214	Jun 15/2016	
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202	Jun 15/2015		210	Feb 15/2016		D 205	Jun 15/2016	
203	Oct 15/2015		211	Feb 15/2016		D 206	Jun 15/2016	
204	Oct 15/2015		212	Feb 15/2016		D 207	Jun 15/2016	
205	Jun 15/2015		213	Feb 15/2016		D 208	BLANK	
206	Oct 15/2015		214	Feb 15/2016		33-51-03		
207	Jun 15/2015		215	Feb 15/2016		201	Feb 15/2015	
208	Oct 15/2015		216	BLANK		202	Feb 15/2015	
209	Oct 15/2015	33-51-00				203	Oct 15/2015	
210	Oct 15/2015		501	Feb 15/2015		204	Oct 15/2015	
211	Feb 15/2016		502	Oct 15/2015		205	Oct 15/2014	
212	Jun 15/2015		503	Oct 15/2015		206	Oct 15/2014	
213	Oct 15/2015		504	BLANK		207	Oct 15/2015	
214	Jun 15/2015	33-51-01				208	Oct 15/2015	
215	Oct 15/2015		201	Oct 15/2014	33-51-04			
216	Oct 15/2015		202	Oct 15/2014		201	Oct 15/2014	
217	Jun 15/2015		203	Oct 15/2015		202	Oct 15/2014	
218	Oct 15/2015		204	Oct 15/2015		203	Oct 15/2015	
219	Oct 15/2015		205	Oct 15/2015		204	Oct 15/2015	
220	Oct 15/2015		206	Oct 15/2015	R 205	Jun 15/2016		
33-45-03			207	Oct 15/2015	R 206	Jun 15/2016		
201	Jun 15/2015		208	Oct 15/2015		207	Oct 15/2015	
202	Jun 15/2015		209	Oct 15/2014		208	BLANK	
203	Oct 15/2015		210	Oct 15/2014	33-51-06			
204	Jun 15/2015		211	Oct 15/2014		201	Jun 15/2015	
205	Jun 15/2015		212	Oct 15/2015		202	Oct 15/2014	
206	Oct 15/2015		213	Oct 15/2015		203	Oct 15/2014	
33-49-00			214	Oct 15/2015		204	Oct 15/2015	
201	Feb 15/2016		215	Oct 15/2015		205	Oct 15/2015	
202	Feb 15/2016		216	Oct 15/2015		206	Oct 15/2015	
203	Feb 15/2015		217	Oct 15/2015		207	Oct 15/2014	
204	Jun 15/2015		218	BLANK		208	Oct 15/2014	
205	Oct 15/2015	33-51-02				209	Oct 15/2014	
206	Oct 15/2015		D 201	Jun 15/2016		210	Feb 15/2015	
207	Oct 15/2015		D 202	Jun 15/2016		211	Jun 15/2015	
208	Feb 15/2016		D 203	Jun 15/2016		212	Jun 15/2015	

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201	Oct 15/2014							
202	Oct 15/2015							
203	Oct 15/2015							
204	Oct 15/2014							
205	Oct 15/2015							
206	Oct 15/2015							
33-51-15								
201	Oct 15/2014							
202	Oct 15/2014							
203	Oct 15/2014							
204	Oct 15/2014							
205	Oct 15/2014							
206	Oct 15/2014							
R 207	Jun 15/2016							
208	Jun 15/2015							
209	Jun 15/2015							
210	Oct 15/2015							
211	Oct 15/2015							
R 212	Jun 15/2016							
D 213	Jun 15/2016							
D 214	BLANK							
33-51-15								
501	Feb 15/2015							
502	Feb 15/2015							
503	Feb 15/2015							
504	Oct 15/2015							
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MMEL 33-03-01A (DDG) Preparation - Passenger Information Signs (No Smoking/Fasten Seat Belt/Return To Seat) Inoperative				901	AKS ALL
TASK 33-00-00-840-801					
MMEL 33-03-01A (DDG) Restoration - Passenger Information Signs (No Smoking/Fasten Seat Belt/Return To Seat) Inoperative				902	AKS ALL
TASK 33-00-00-840-802					
MMEL 33-08-01A (DDG) Preparation - Retractable Landing Lights Inoperative				902	AKS ALL
TASK 33-00-00-840-803					
MMEL 33-08-01A (DDG) Restoration - Retractable Landing Lights Inoperative				903	AKS ALL
TASK 33-00-00-840-804					
INSTRUMENT AND PANEL LIGHTS - MAINTENANCE PRACTICES	33-11-00			201	AKS ALL
Instrument and Panel Lights - Deactivation				201	AKS ALL
TASK 33-11-00-040-801					
Instrument and Panel Lights - Activation				203	AKS ALL
TASK 33-11-00-440-801					
Captain's Lighting Module - Module Replacement				204	AKS ALL
TASK 33-11-00-960-801					
First Officer's Lighting Module - Module Replacement				208	AKS ALL
TASK 33-11-00-960-802					
Stabilizer Trim Warning Light Lamp Replacement				209	AKS ALL
TASK 33-11-00-960-809					
Stabilizer Trim Warning Light - Cap Assembly Replacement				213	AKS ALL
TASK 33-11-00-960-810					
Control Column Memory Device - Lamp Replacement				214	AKS ALL
TASK 33-11-00-960-803					
Master Warning And Caution System Announcer - Lamp Replacement				217	AKS ALL
TASK 33-11-00-960-804					

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Runway Turnoff Light - Lamp Replacement TASK 33-45-02-960-801				205	AKS 001-017
Runway Turnoff Light - Light Assembly Replacement TASK 33-45-02-900-801				211	AKS 018-999
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Logo Light - Light Assembly Replacement TASK 33-49-00-960-802				208	AKS ALL
EMERGENCY LIGHTS - ADJUSTMENT/TEST	33-51-00			501	AKS ALL
Emergency Lights - Operational Test TASK 33-51-00-710-801				501	AKS ALL
Emergency Lights - Operational Check TASK 33-51-00-720-801				501	AKS ALL

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CHAPTER 33
LIGHTS

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<u>EXIT SIGNS - MAINTENANCE PRACTICES</u>	33-51-01		201			AKS ALL
Exit Sign - Lamp Replacement			201			AKS ALL
TASK 33-51-01-960-801						
Exit Sign - Light Assembly Replacement			209			AKS ALL
TASK 33-51-01-960-802						
<u>AREA LIGHTS - MAINTENANCE PRACTICES</u>	33-51-03		201			AKS ALL
Emergency Aisle Light (EAL) - Lens Replacement			201			AKS ALL
TASK 33-51-03-960-803						
Emergency Aisle Light (EAL) – Assembly Replacement			205			AKS ALL
TASK 33-51-03-960-805						
<u>SLIDE/OVERWING LIGHTS - MAINTENANCE PRACTICES</u>	33-51-04		201			AKS ALL
Slide/Overwing Light - Lamp Replacement			201			AKS ALL
TASK 33-51-04-960-801						
Slide/Overwing Light - Light Assembly Replacement			204			AKS ALL
TASK 33-51-04-960-802						
<u>POWER SUPPLIES - MAINTENANCE PRACTICES</u>	33-51-06		201			AKS ALL
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TASK 33-51-06-610-802						
Power Supply - Fuse Replacement			202			AKS ALL
TASK 33-51-06-960-804						
Power Supply - Battery Pack Replacement			207			AKS ALL
TASK 33-51-06-960-805						
Power Supply - Power Supply Replacement			209			AKS ALL
TASK 33-51-06-960-806						
Power Supply - Battery Pack Capacity Check			210			AKS ALL
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SUBJECT	CHAPTER SECTION	SUBJECT	CONF	PAGE	EFFECT
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Floor Proximity Light - Lamp Replacement TASK 33-51-14-960-801				201	AKS ALL
Floor Proximity Light - Light Assembly Replacement TASK 33-51-14-960-802				204	AKS ALL
<u>FLOOR PROXIMITY LIGHTS, PHOTOLUMINESCENT - MAINTENANCE PRACTICES</u>	33-51-15			201	AKS ALL; AIRPLANES WITH PHOTOLUMINESCENT FLOOR PROXIMITY LIGHTS
Floor Proximity Light - Charge the Photoluminescent Strips TASK 33-51-15-860-803				201	AKS ALL
Floor Proximity Light - Photoluminescent Strip Replacement TASK 33-51-15-960-801				207	AKS ALL; AIRPLANES WITH PHOTOLUMINESCENT FLOOR PROXIMITY LIGHTS
Floor Proximity Light - Photoluminescent Strip Cleaning TASK 33-51-15-100-801				212	AKS ALL; AIRPLANES WITH PHOTOLUMINESCENT FLOOR PROXIMITY LIGHTS
Floor Proximity Light - Photoluminescent Strip Inspection TASK 33-51-15-210-801				212	AKS ALL; AIRPLANES WITH PHOTOLUMINESCENT FLOOR PROXIMITY LIGHTS
<u>FLOOR PROXIMITY LIGHTS, CABIN LIGHT INTENSITY - ADJUSTMENT/TEST</u>	33-51-15			501	AKS ALL; AIRPLANES WITH PHOTOLUMINESCENT FLOOR PROXIMITY LIGHTS
Cabin Lighting - Measure the Available Light Intensity TASK 33-51-15-860-802				501	AKS ALL; AIRPLANES WITH PHOTOLUMINESCENT FLOOR PROXIMITY LIGHTS

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

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 33-00-00-040-001

- (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 —

EFFECTIVITY	AKS ALL
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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

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

C. Location Zones

Zone	Area
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 - Light Assembly Replacement for a Return-to-Seat Sign, TASK 33-25-00-960-803 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 - Light Assembly Replacement for a Return-to-Seat Sign, TASK 33-25-00-960-803 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 ————

TASK 33-00-00-840-803

4. MMEL 33-08-01A (DDG) Preparation - Retractable Landing Lights 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

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

C. Location Zones

Zone	Area
123	Forward Cargo Compartment - Left

EFFECTIVITY
AKS ALL

33-00-00

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(Continued)

Zone Area

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 33-08-01A (DDG) Restoration - Retractable Landing Lights 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

Reference	Title
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

Zone Area

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 33-42-02-960-802Retractable Landing Light - Lens Assembly Replacement, TASK 33-42-02-960-805.

———— END OF TASK ——

EFFECTIVITY
AKS ALL

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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

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

Zone	Area
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

Row	Col	Number	Name
C	2	C00849	AFCS STABILIZER TRIM

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
-----	-----	--------	------

AKS 001-024, 026, 028-999

A 6 C00148 ANTI-ICE & RAIN ENG 1 & WING CONT

AKS 025, 027

A 6 C00148 ANTI-ICE-RAIN ENG 1/WING CONT-ICE DET

AKS 001-024, 026, 028-999

B 6 C00149 ANTI-ICE & RAIN ENGINE 2 CONTROL

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AKS ALL

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AKS 001-024, 026, 028-999 (Continued)

(Continued)

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
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AKS 025, 027

B	6	C00149	ANTI-ICE-RAIN ENG 2/CONT & ICE DET
---	---	--------	------------------------------------

F/O Electrical System Panel, P6-2

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

AKS ALL

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	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:

EFFECTIVITY	AKS ALL
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- (a) Captain's Instrument Panel, P1
 - (b) Center Instrument Panel, P2
 - (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

Zone	Area
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

Row	Col	Number	Name
C	2	C00849	AFCS STABILIZER TRIM

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
AKS 001-024, 026, 028-999	A	6	C00148 ANTI-ICE & RAIN ENG 1 & WING CONT

AKS 025, 027

A	6	C00148	ANTI-ICE-RAIN ENG 1/WING CONT-ICE DET
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AKS 001-024, 026, 028-999

B	6	C00149	ANTI-ICE & RAIN ENGINE 2 CONTROL
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AKS 001-024, 026, 028-999 (Continued)

(Continued)

CAPT Electrical System Panel, P18-3

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

AKS 025, 027

B	6	C00149	ANTI-ICE-RAIN ENG 2/CONT & ICE DET
---	---	--------	------------------------------------

F/O Electrical System Panel, P6-2

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

AKS ALL

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	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).

EFFECTIVITY	AKS ALL
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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

E. Procedure

SUBTASK 33-11-00-860-001

- (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

- (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.



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SUBTASK 33-11-00-860-003

- (5) 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
---	---	--------	----------------------------------

- (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
- (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.

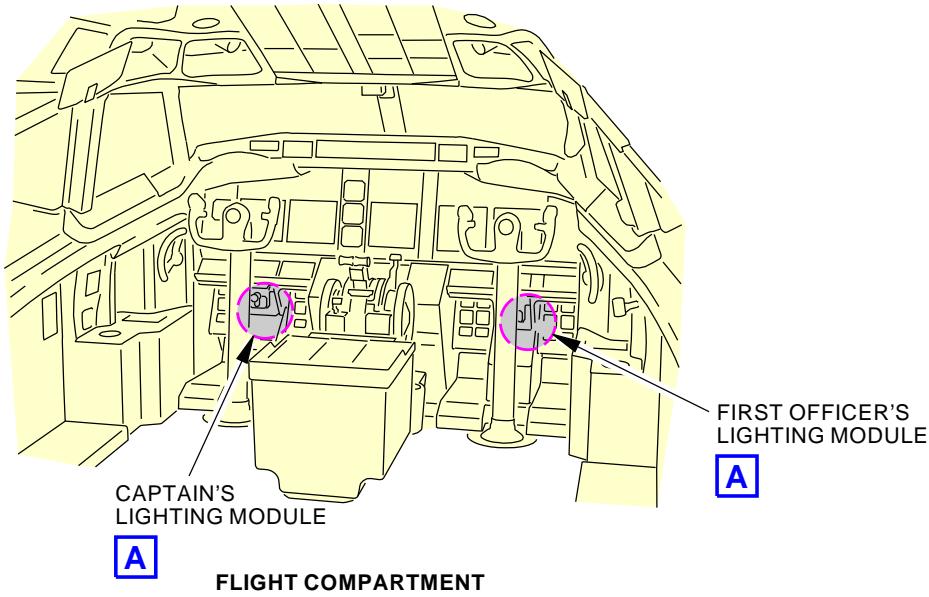
———— END OF TASK ————

EFFECTIVITY
AKS ALL

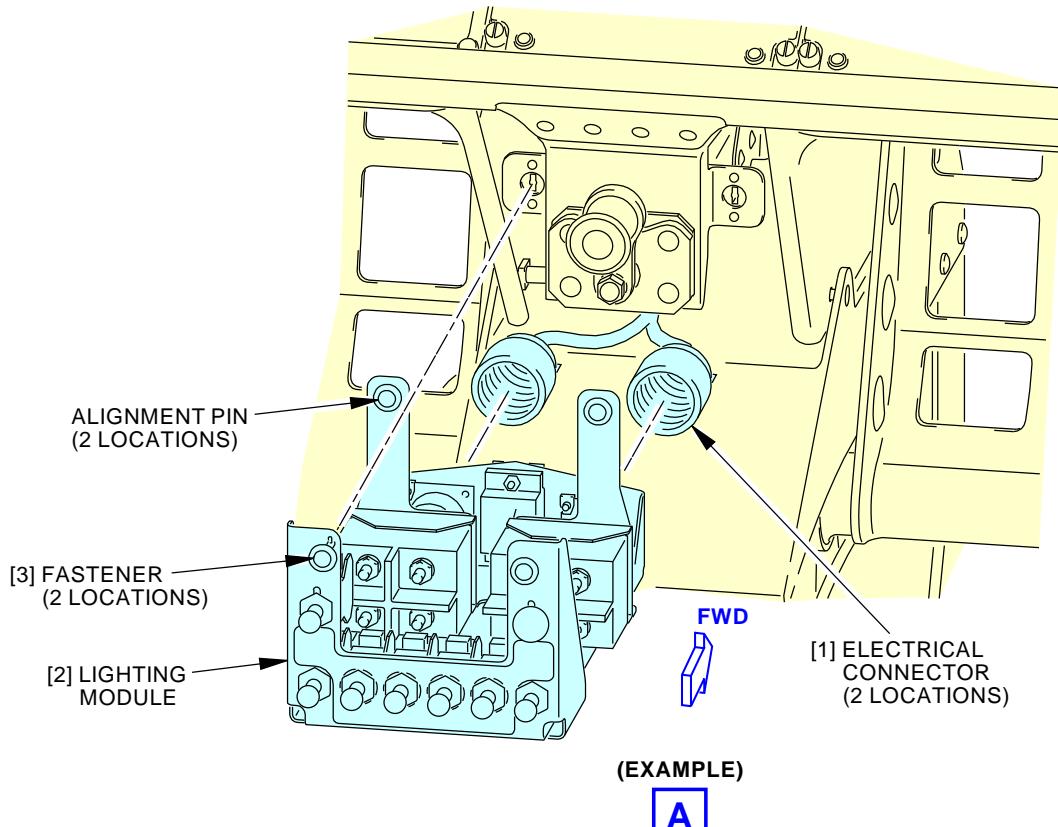
33-11-00



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FLIGHT COMPARTMENT



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Lighting Modules
Figure 201/33-11-00-990-801

EFFECTIVITY
AKS ALL

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D633A101-AKS

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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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- 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

Reference	Title
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.

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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

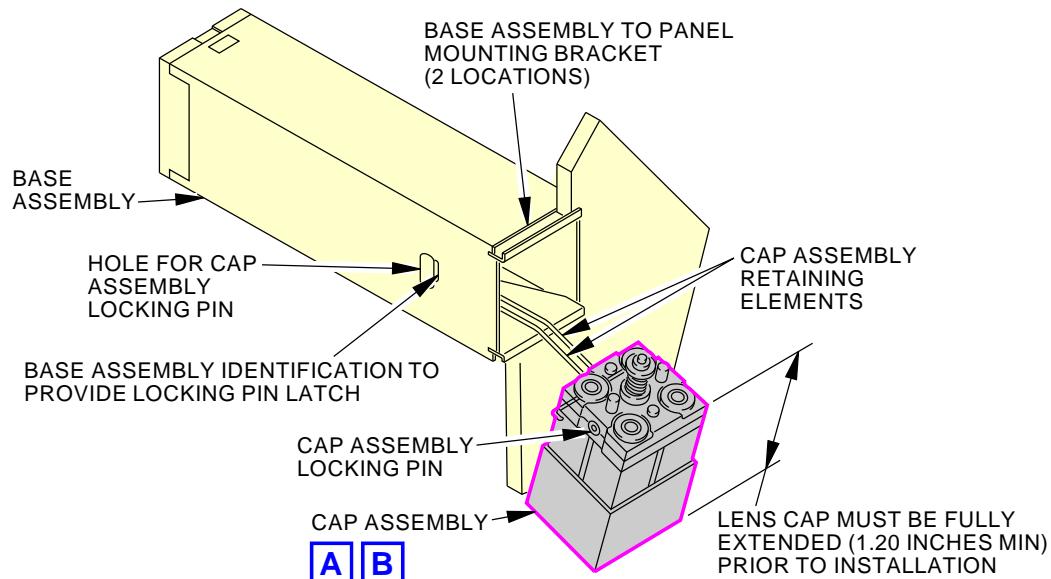
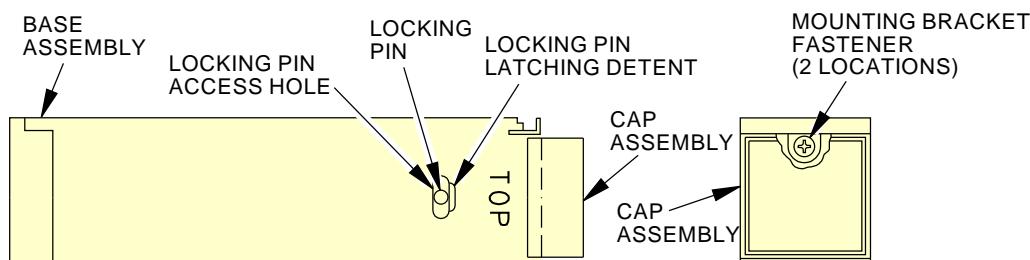
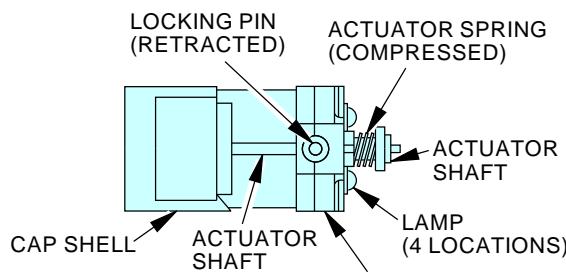
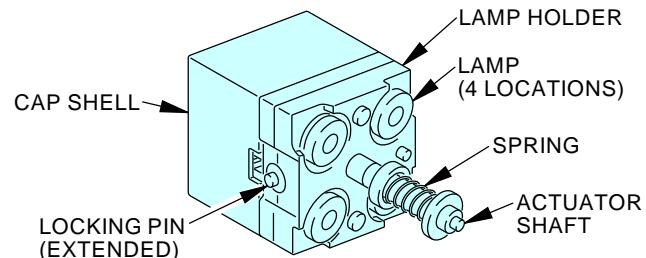
- (9) Do this task: Remove Electrical Power, TASK 24-22-00-860-812.

———— END OF TASK ————

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INDICATOR LIGHT IN RELAMPING POSITION

INDICATOR LIGHT MOUNTING BRACKET (2 LOCATIONS)

CAP ASSEMBLY IN EXTENDED POSITION
A

CAP ASSEMBLY IN COLLAPSED POSITION
B

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

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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 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

F/O Electrical System Panel, P6-3

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

E. Procedure

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, 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.

- (e) Remove the cap assembly retaining elements from the two small holes in the lampholder of the cap assembly.

NOTE: Make sure not to bend the cap assembly retaining elements.

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- (f) Install the cap assembly retaining elements into the two small holes in the lampholder of the new cap assembly.

NOTE: 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

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. Replacement Test

SUBTASK 33-11-00-700-001

- (1) Do a test of the lamps:

- At the captain's main instrument panel, P1, set the switch for the master dim and test lights to TEST.
- Make sure that the lamps come on.
- 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 ————

TASK 33-11-00-960-803

8. Control Column Memory Device - 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)

B. Location Zones

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



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(Continued)

Zone Area

212 Flight Compartment - Right

C. 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

Row Col Number Name

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]:
- Press the spring-loaded pin [3] to remove the cap [2].
 - Push the lamp holder [4] out of the memory device [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].
 - Remove the applicable lamps [5] from the lamp holder [4].
 - Make sure that the electrical contact in the lamp holder [4] is clean.
 - Install the new lamps [5] into the lamp holder [4].
 - Make sure that the lamps [5] point up to the cap [2].
 - Push the lamp holder [4] back into the memory device [1].
 - Install the cap [2].

SUBTASK 33-11-00-860-010

- (3) 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 33-11-00-860-011

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

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

SUBTASK 33-11-00-710-003

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

- At the P1 panel, set the CAPT'S AND CENTER PANEL LIGHTING CONTROL switch to the dim position and then to the bright position.
 - Make sure the intensity of the light changes from dim to bright.
- Set the switch to the off position.

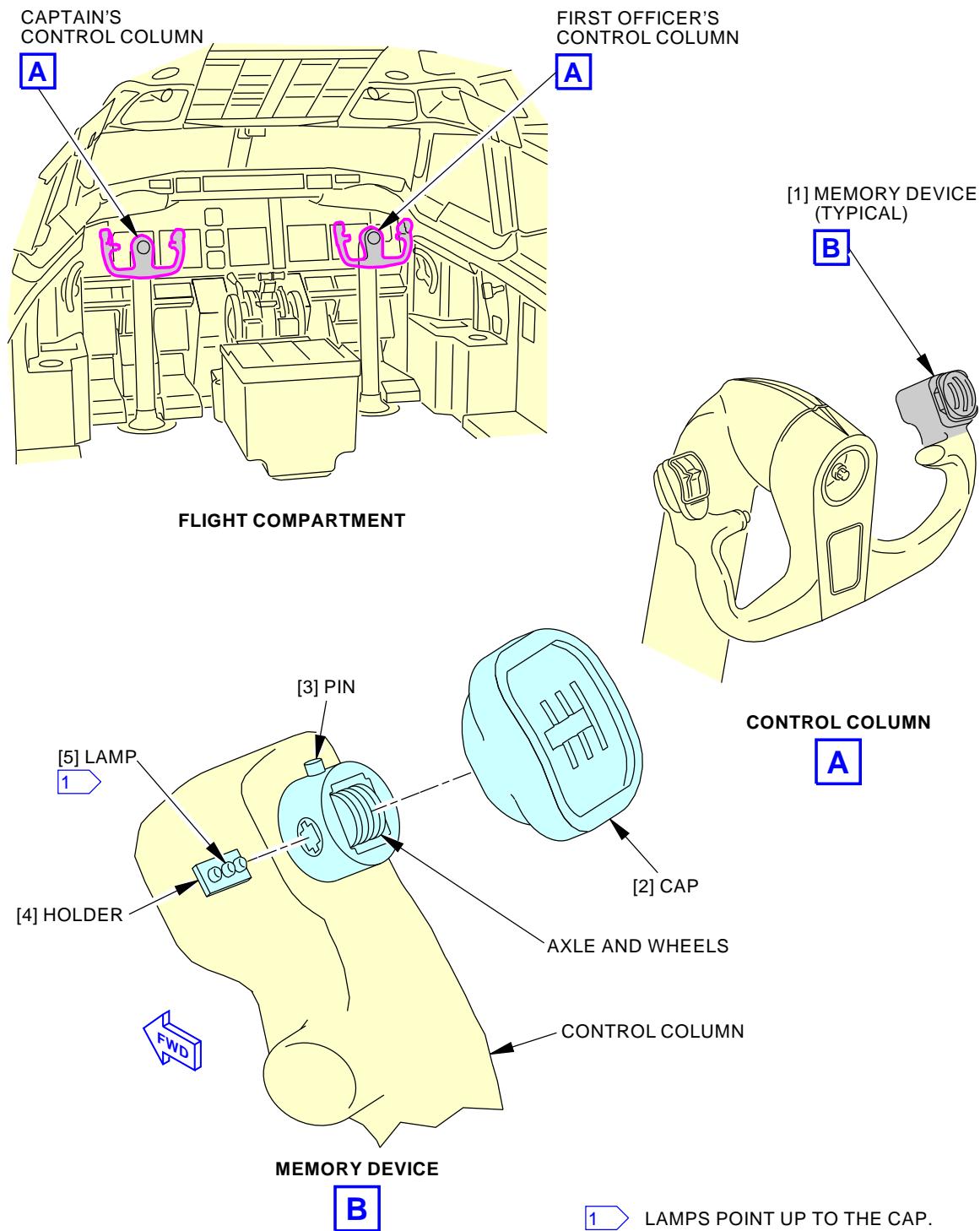
SUBTASK 33-11-00-860-012

- (6) 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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Memory Device Lamp Replacement
Figure 203/33-11-00-990-802

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TASK 33-11-00-960-804

9. Master Warning And Caution System Annunciator - 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)

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
21	Lamp	33-14-00-02-035	AKS ALL
		33-14-00-09-105	AKS ALL
		33-14-00-09-130	AKS ALL

C. Location Zones

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

D. Procedure

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]:

CAUTION: 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 33-11-00-860-014

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

SUBTASK 33-11-00-860-015

- (4) 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



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SUBTASK 33-11-00-710-004

(5) Do a test of the new lamp [21]:

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

SUBTASK 33-11-00-860-016

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

———— END OF TASK ————

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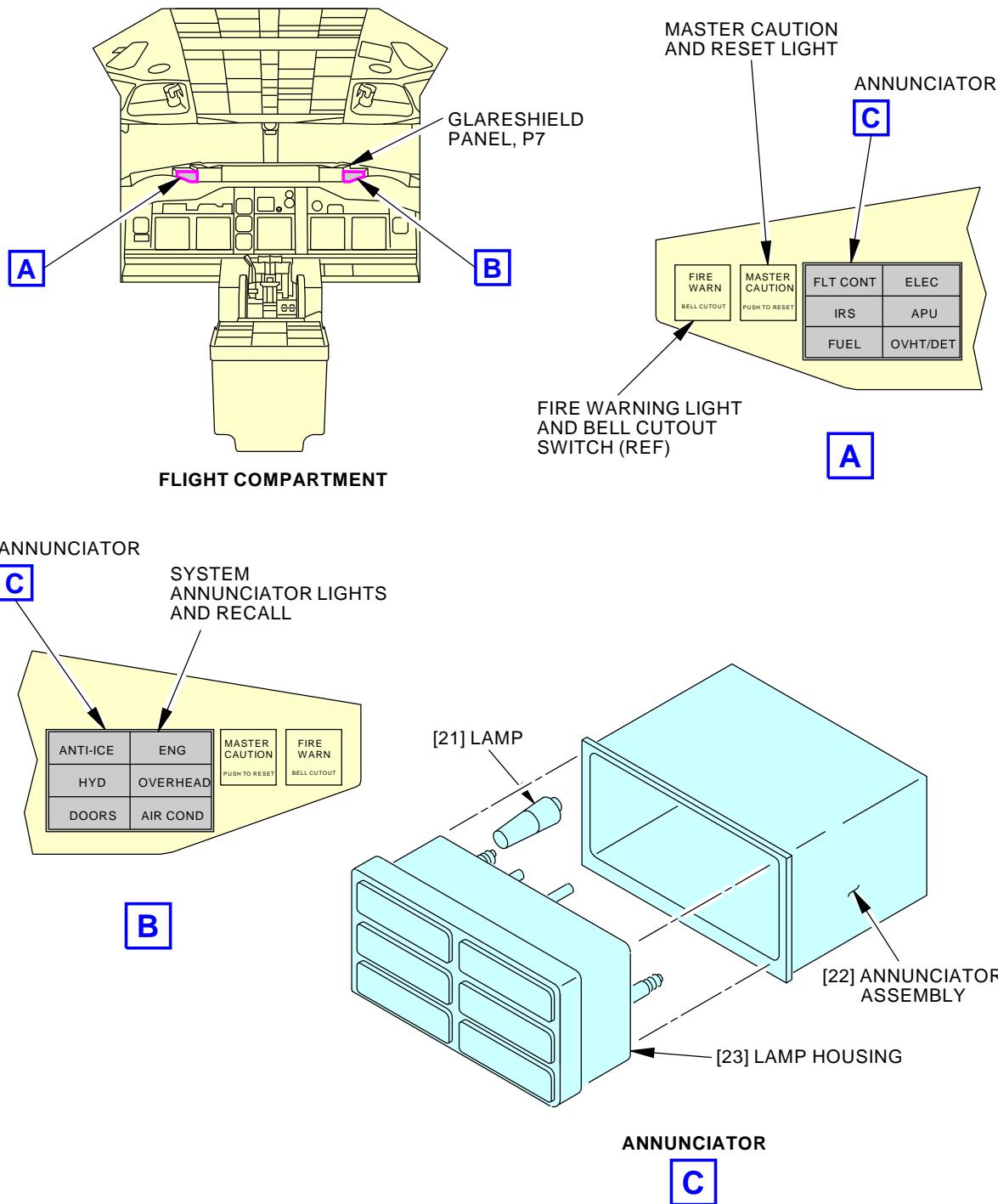
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Master Warning And Caution System Annunciator - Lamp Replacement
Figure 204/33-11-00-990-803

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TASK 33-11-00-960-806

- 10. Master Warning And Caution System Annunciator - 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. Location Zones

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

C. 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]:

CAUTION: 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



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SUBTASK 33-11-00-860-019

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

SUBTASK 33-11-00-710-006

- (5) 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.
- (b) Make sure that the light is on.
- (c) Set the switch to the off position.

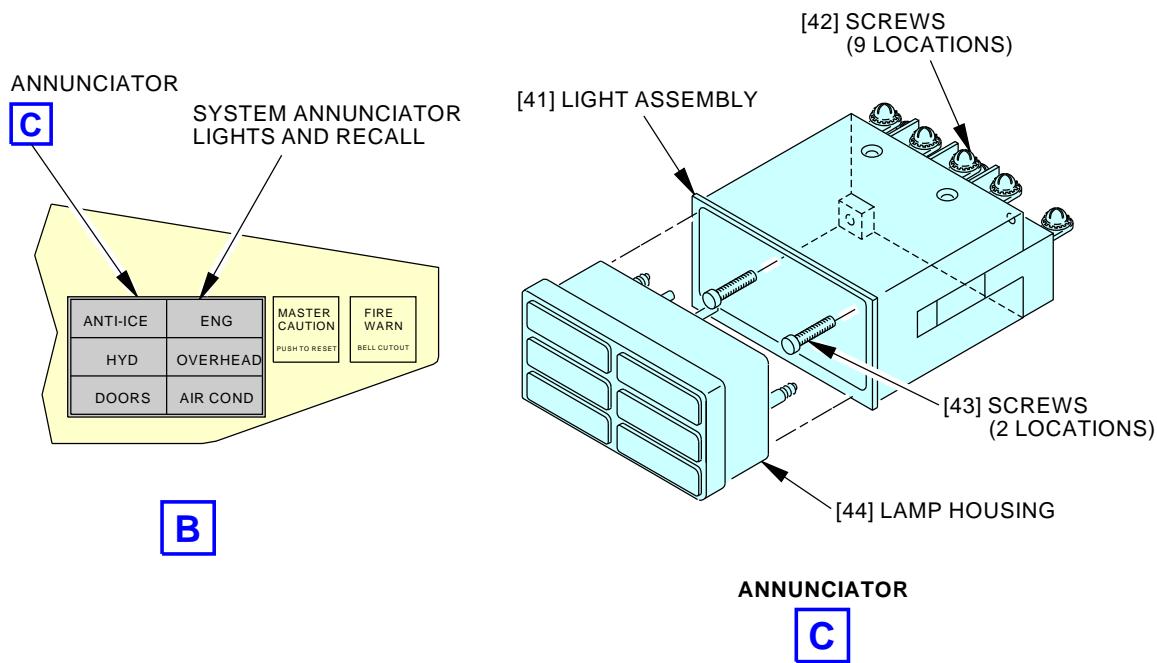
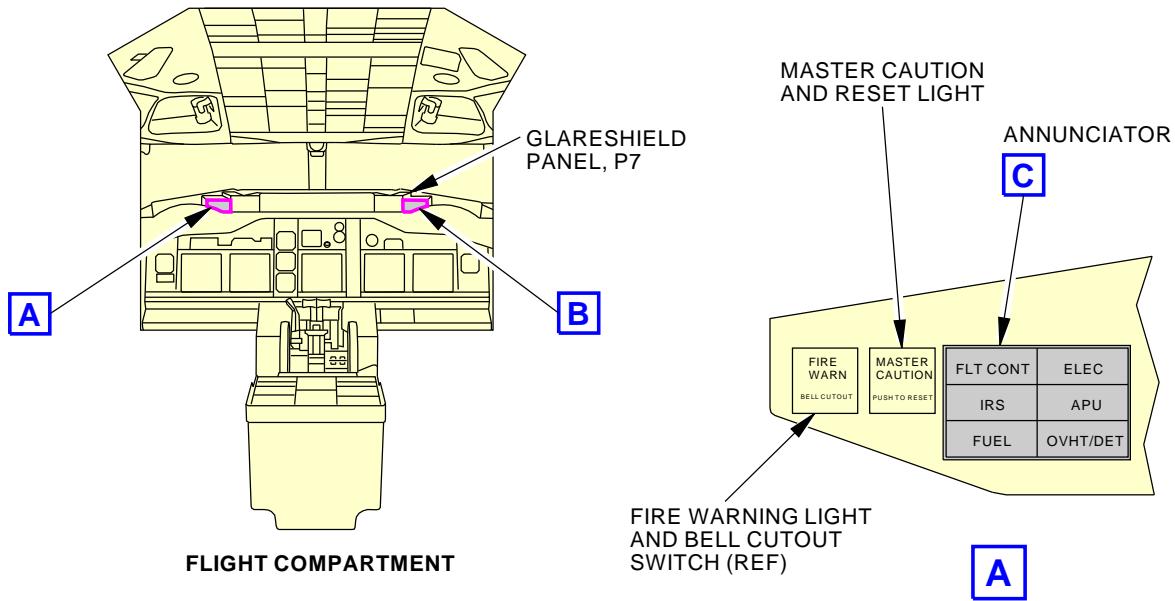
SUBTASK 33-11-00-860-020

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

———— END OF TASK ————

EFFECTIVITY
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Master Warning And Caution System Annunciator - Light Assembly Replacement

Figure 205/33-11-00-990-804

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TASK 33-11-00-960-807

11. Master Warning And Caution Light Switch - Switch Replacement

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 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 33-11-00-860-021

- (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. Procedure

SUBTASK 33-11-00-020-003

- (1) Do these steps to remove the switch [61] (WDM 26-11-21, WDM 31-52-11):
 - (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].
 - (e) Disconnect the wires from the switch [61].
 - (f) Remove the switch [61].

SUBTASK 33-11-00-420-003

- (2) Do these steps to install the new switch [61] (WDM 26-11-21, WDM 31-52-11):
 - (a) Remove the nut [63] and lock washer [64] from the new switch [61].
NOTE: Do not remove the key washer.
 - (b) Connect the wires to the switch [61].
 - (c) Place the new switch [61] in its position.
 - (d) Install the lock washer [64] and nut [63].
 - (e) Tighten the nut [63].
 - (f) Install the switch cap [62].

EFFECTIVITY
AKS ALL

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SUBTASK 33-11-00-860-022

- (3) 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 33-11-00-860-023

- (4) 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 33-11-00-710-007

- (5) Do a test of the new switch [61]:

- At the captain's main instrument panel, P1, set the switch for the master dim and test lights to TEST.
- Make sure that the lamp in the replaced switch [61] is on.
- Set the switch to the off position.

E. Put the Airplane Back to Its Usual Condition

SUBTASK 33-11-00-860-024

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

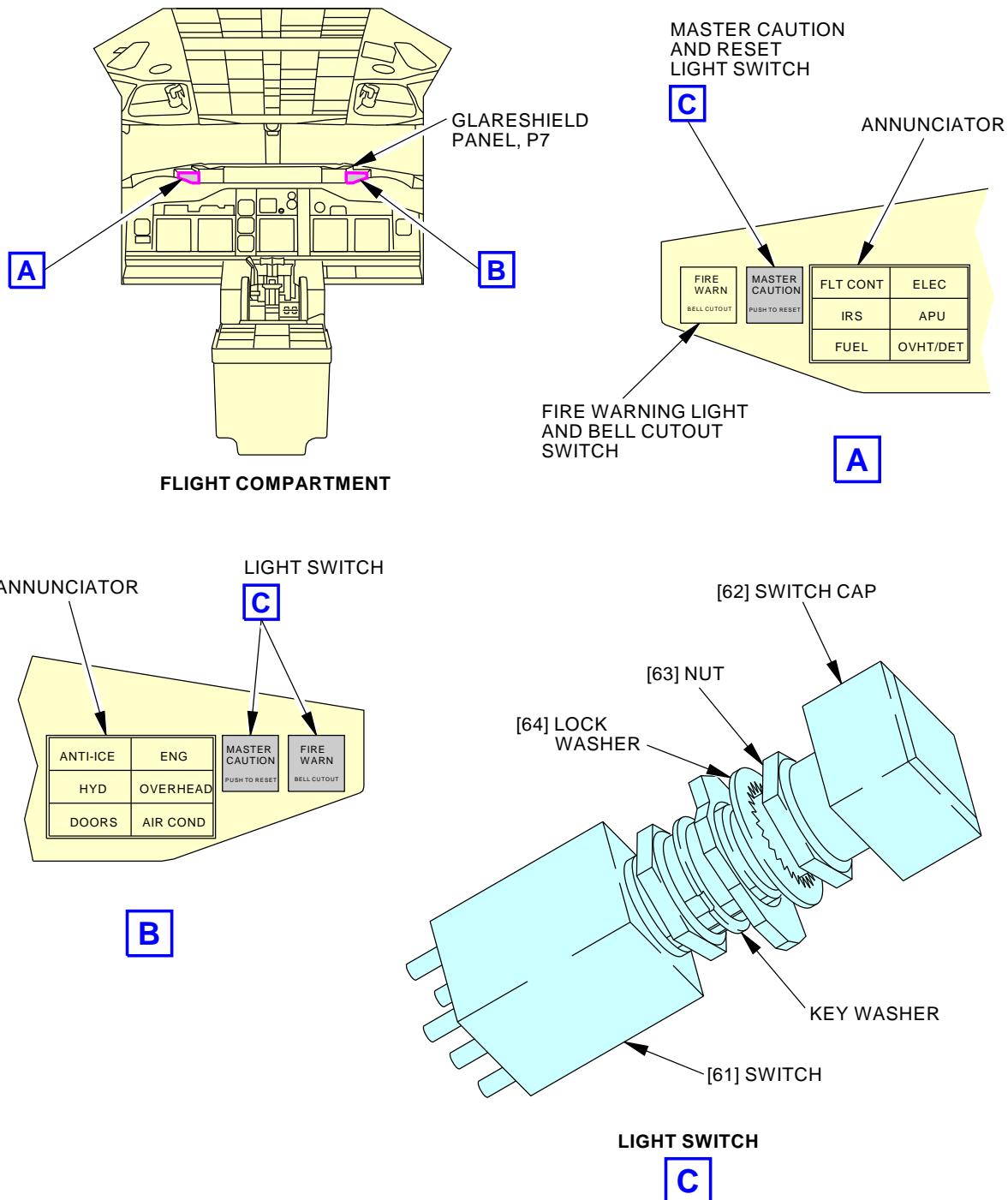
———— END OF TASK ————



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

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TASK 33-11-00-960-808

12. **Master Warning And Caution Light Switch - 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)
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



33-11-00



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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 33-11-00-710-008

- (4) Do a test of the new lamp [81]:
 - (a) At the captain's main instrument panel, P1, set the switch for the master dim and test lights to TEST.
 - (b) Make sure that the replaced lamp [81] is on.
 - (c) Set the switch to the off position.

E. Put the Airplane Back to Its Usual Condition

SUBTASK 33-11-00-860-028

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

———— END OF TASK ————

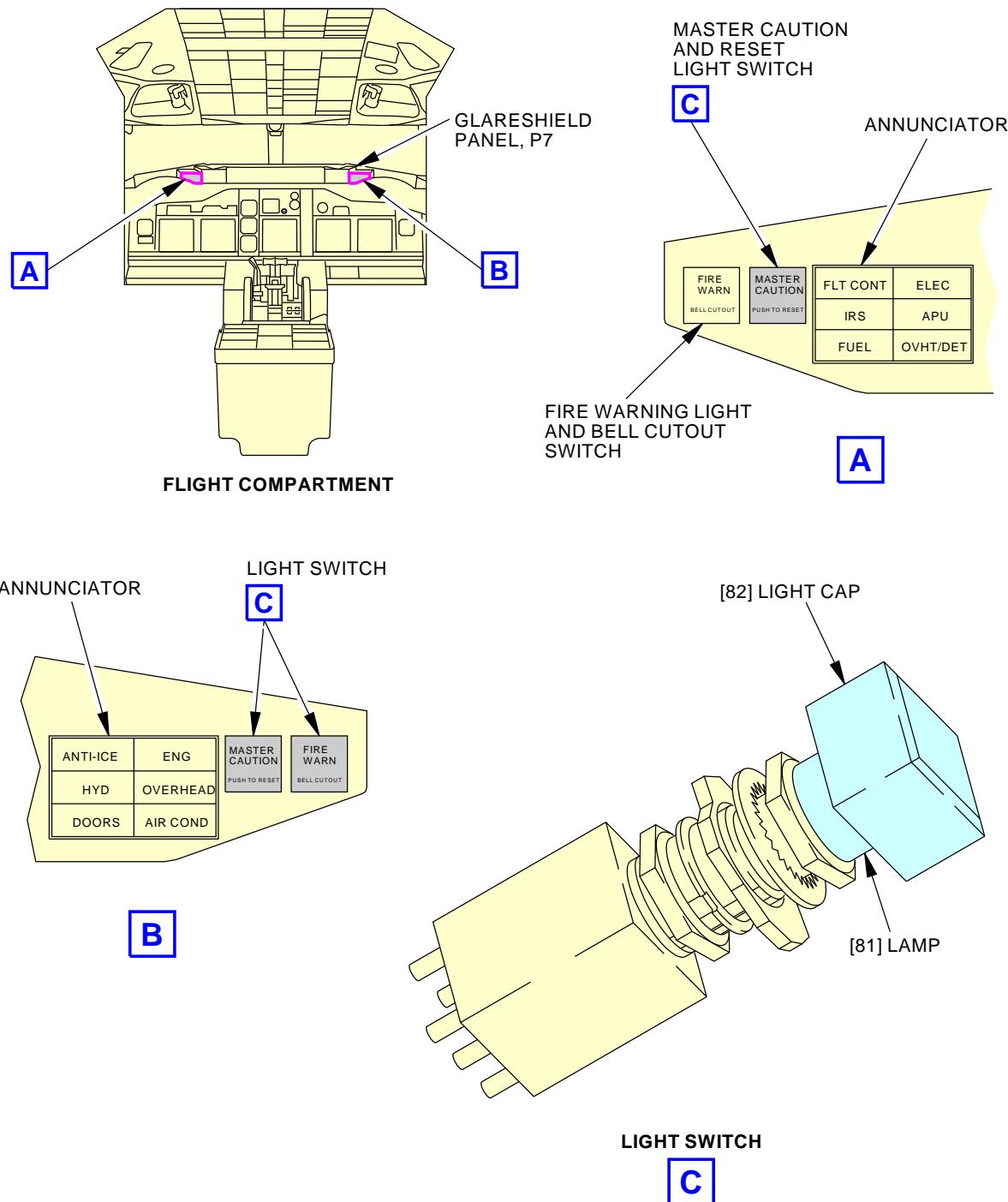


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2015596 S0000398215_V2

Master Warning And Caution Light Switch - Lamp Replacement
Figure 207/33-11-00-990-806

EFFECTIVITY
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TASK 33-11-00-400-801

13. Control Column Memory Device - Installation

(Reference Not Currently Available)

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	AKS ALL
		33-11-51-04-010	AKS 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 ————

EFFECTIVITY

AKS ALL

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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 P9 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) P9 forward electronics panel.
 - 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.

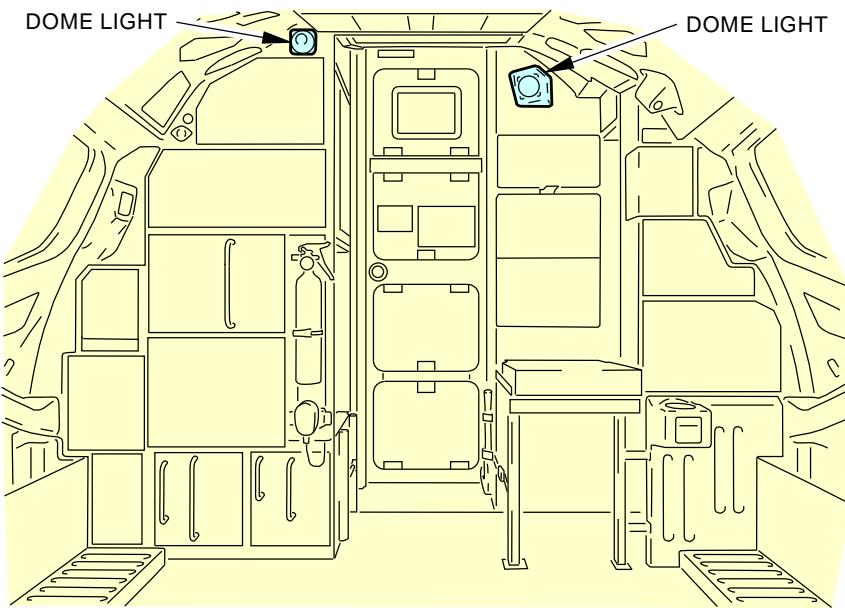
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EFFECTIVITY
AKS ALL

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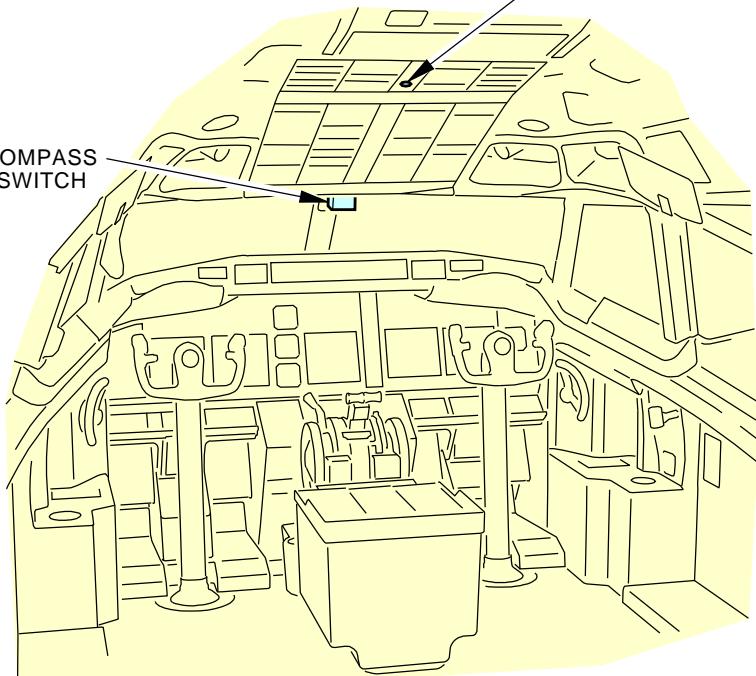
FWD

FLIGHT COMPARTMENT

STANDBY COMPASS
LIGHT AND SWITCH

LIGHT
SWITCH

FWD



2383086 S0000545885_V1

Miscellaneous Lights
Figure 201/33-14-00-990-808 (Sheet 1 of 5)

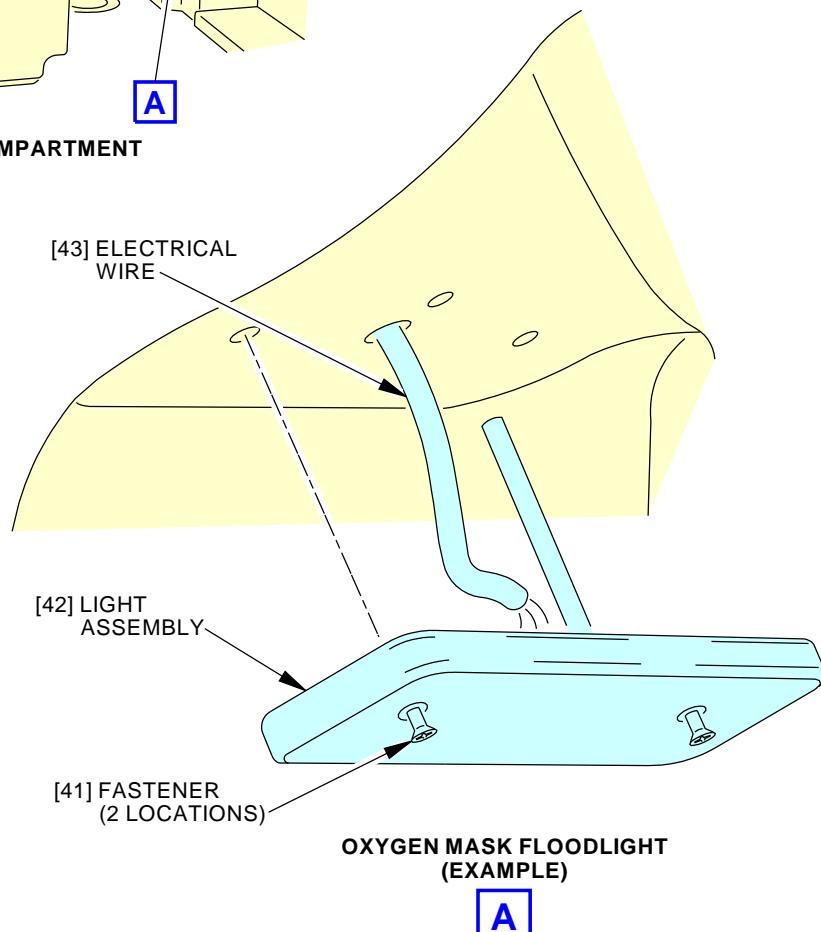
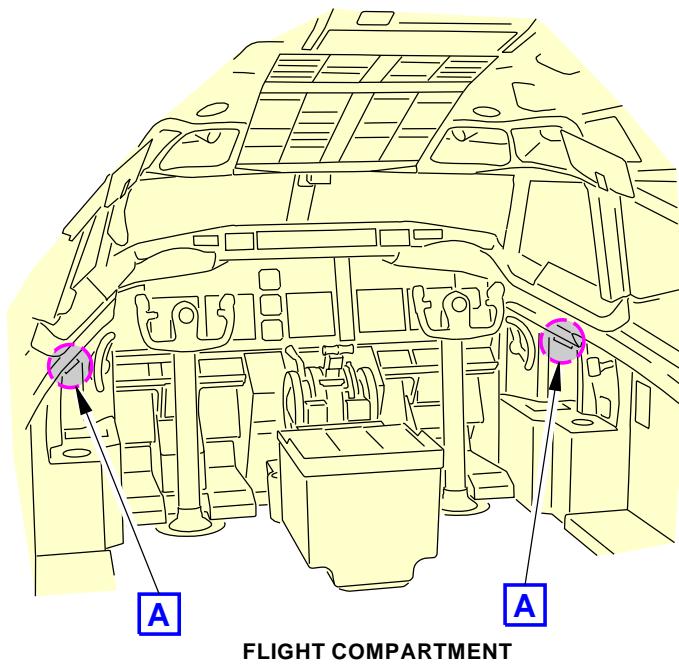
EFFECTIVITY
AKS ALL

33-14-00

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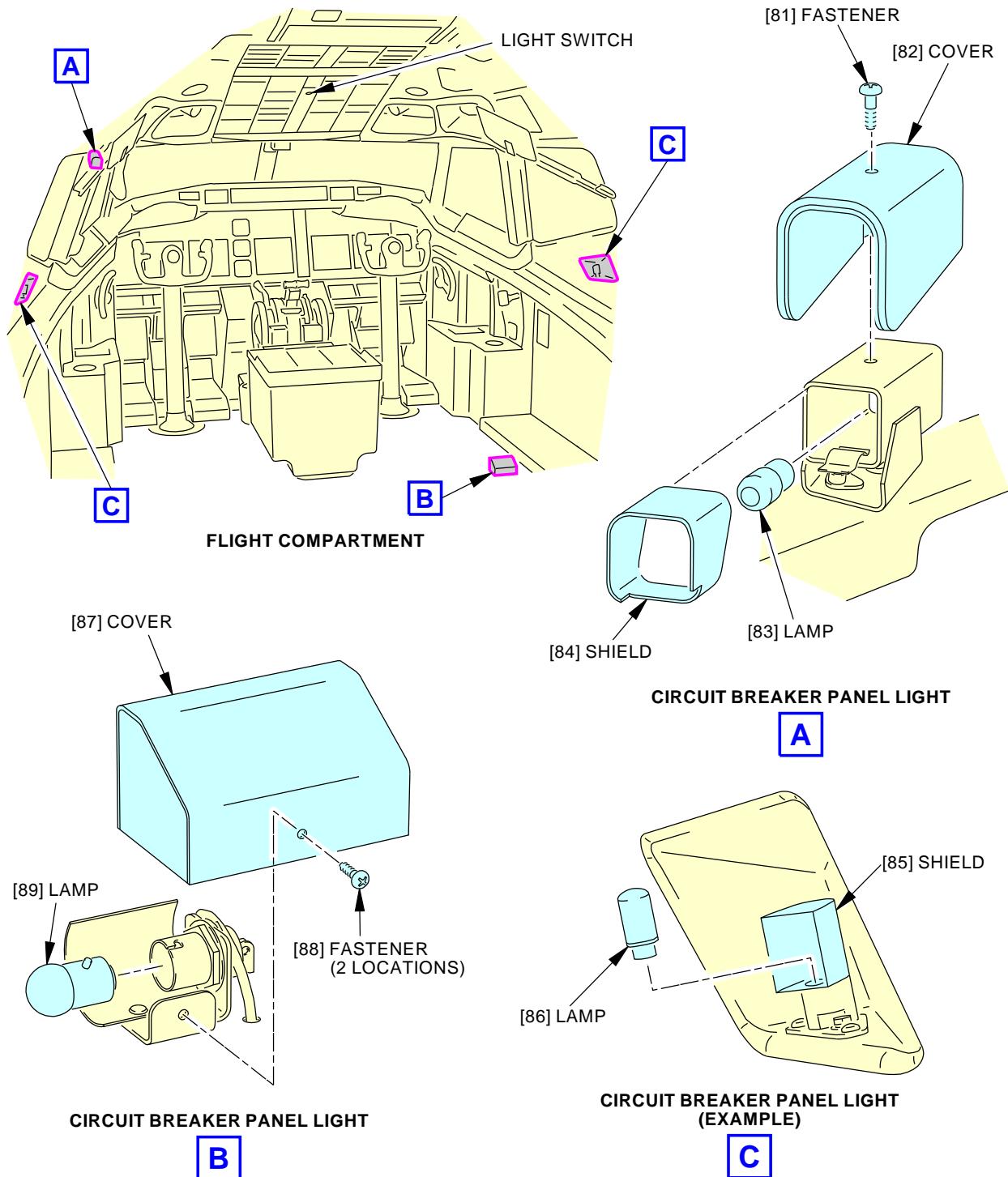
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Miscellaneous Lights
Figure 201/33-14-00-990-808 (Sheet 2 of 5)

EFFECTIVITY
AKS ALL

33-14-00

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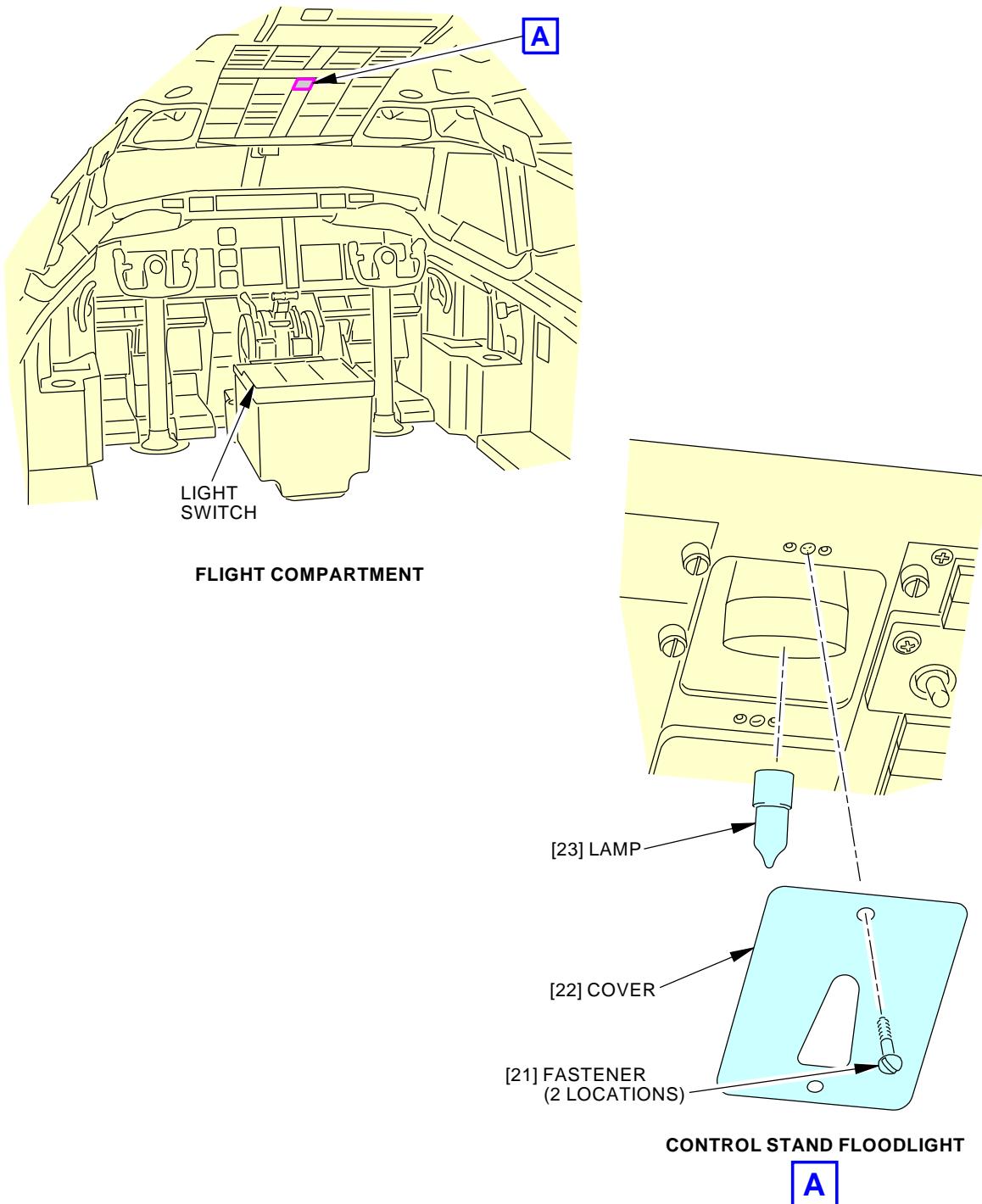


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Miscellaneous Lights
Figure 201/33-14-00-990-808 (Sheet 3 of 5)

EFFECTIVITY
 AKS ALL

33-14-00

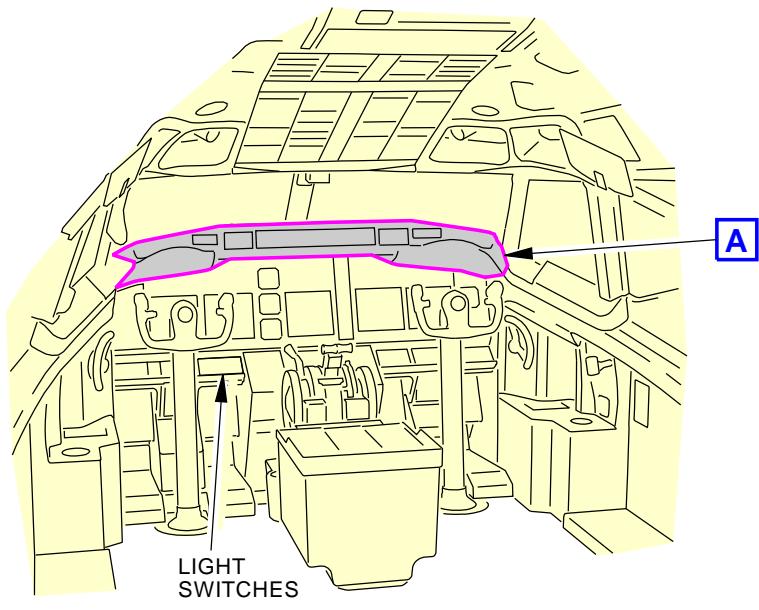


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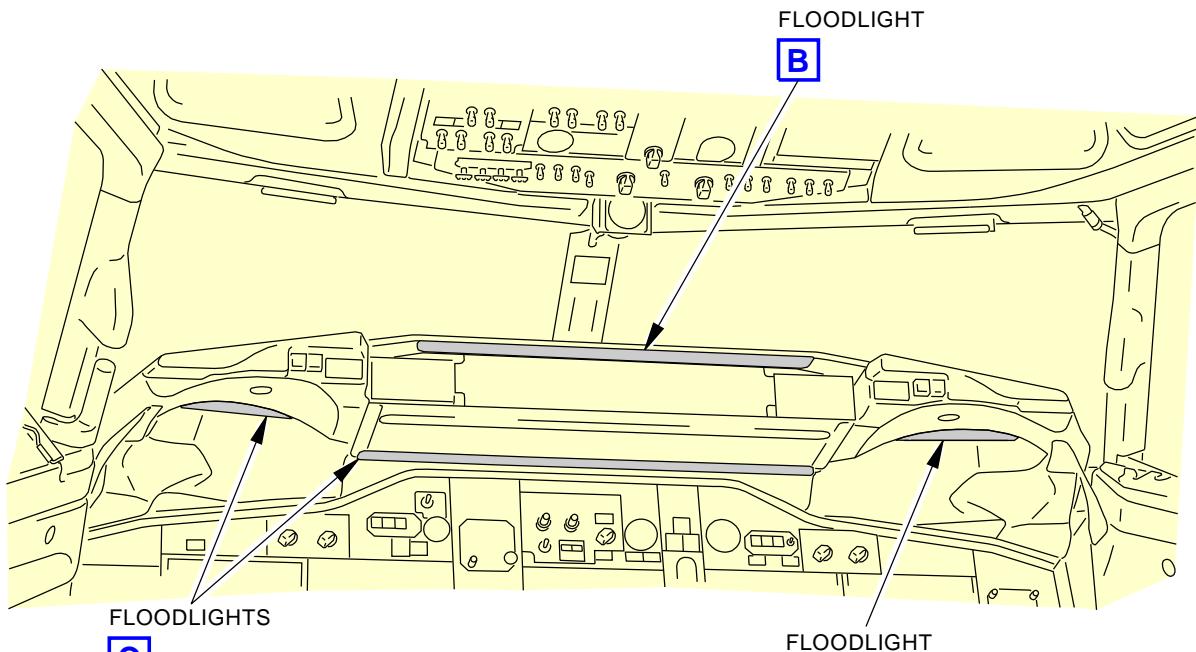
Miscellaneous Lights
Figure 201/33-14-00-990-808 (Sheet 4 of 5)

EFFECTIVITY
AKS ALL

33-14-00



FLIGHT COMPARTMENT



FORWARD PANEL AND GLARESHIELD



G12274 S0006575947_V2

Miscellaneous Lights

Figure 201/33-14-00-990-808 (Sheet 5 of 5)

EFFECTIVITY
AKS ALL**33-14-00**

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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. Location Zones

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



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E. Procedure

SUBTASK 33-14-00-860-001

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

F/O Electrical System Panel, P6-3

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

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

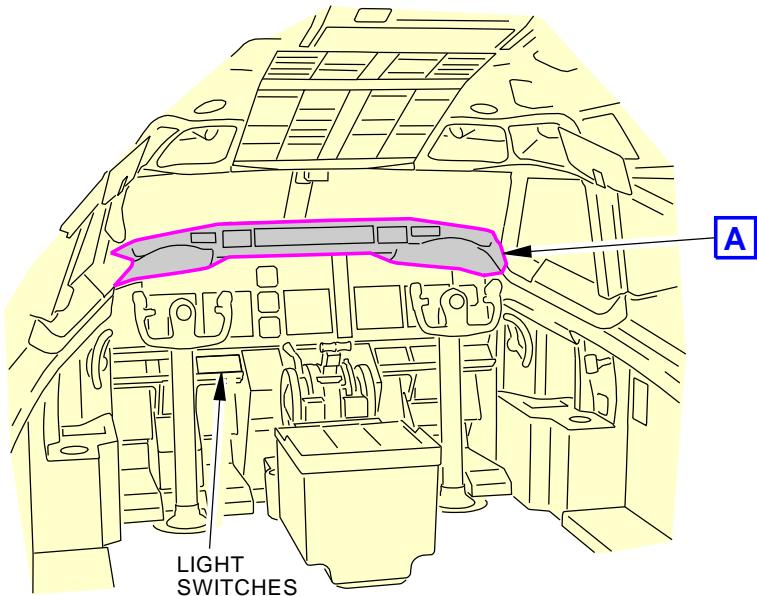
SUBTASK 33-14-00-860-004

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

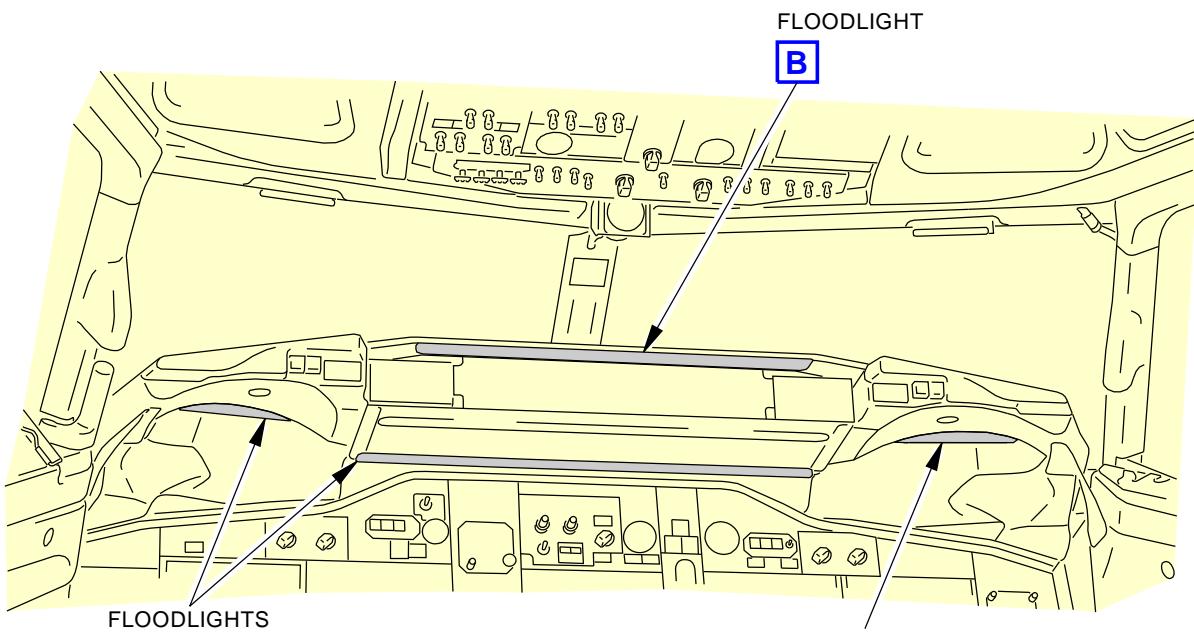
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FLIGHT COMPARTMENT



FORWARD PANEL AND GLARESHIELD



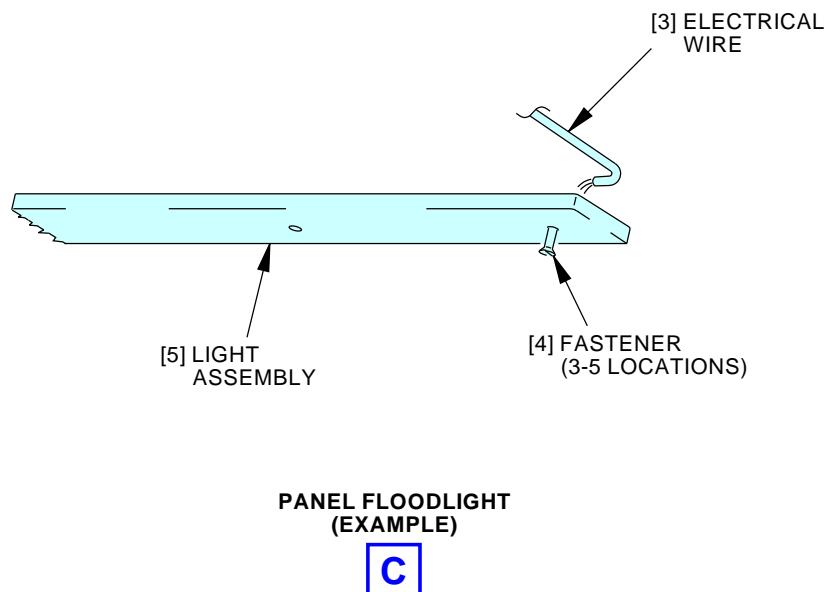
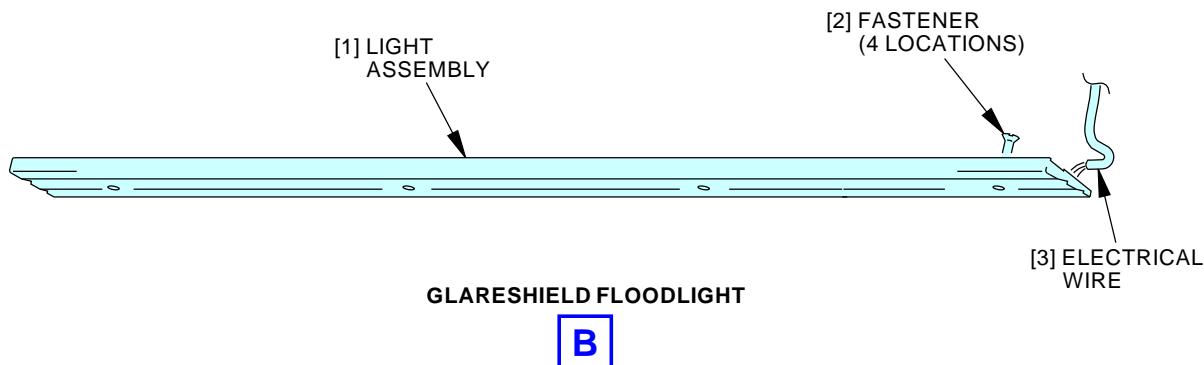
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Panel/Glareshield Floodlight - Light Assembly Replacement
Figure 202/33-14-00-990-801 (Sheet 1 of 2)EFFECTIVITY
AKS ALL**33-14-00**

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G12315 S0006575948_V2

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

EFFECTIVITY	AKS ALL
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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	33-14-00-40-050	AKS 001-012, 014, 017-999

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

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:

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

EFFECTIVITY
AKS ALL

33-14-00



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- (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.

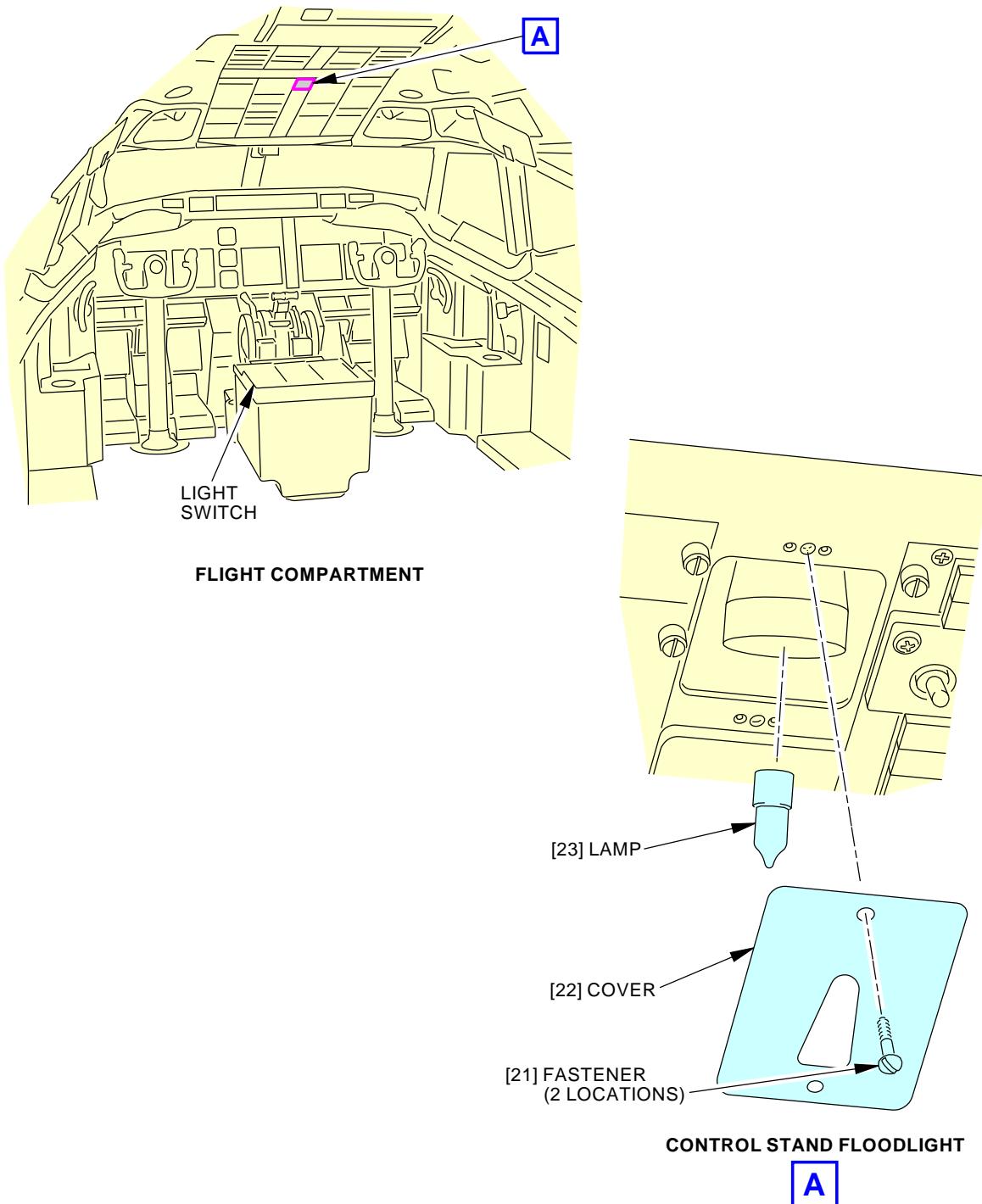
SUBTASK 33-14-00-860-006

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

———— END OF TASK ————

EFFECTIVITY
AKS ALL

33-14-00



G12491 S0006575950_V2

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

 EFFECTIVITY
 AKS ALL

33-14-00

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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. Location Zones

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

D. 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.

E. 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].

F. 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.

EFFECTIVITY
AKS ALL

33-14-00



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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

G. 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.

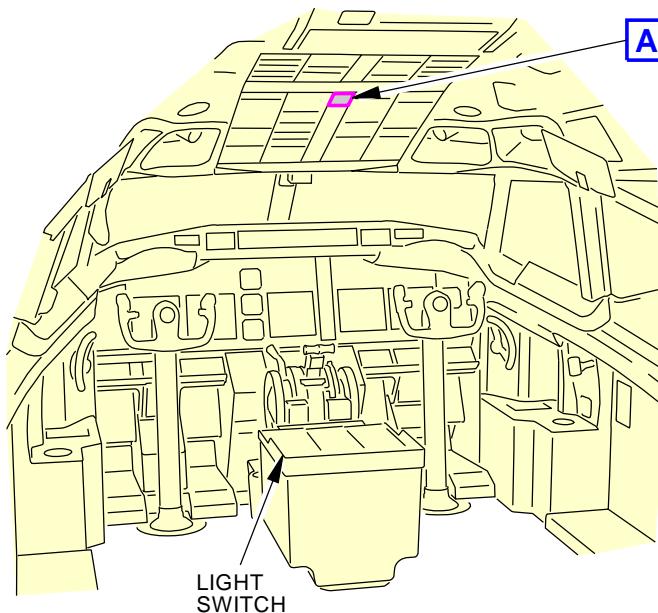
SUBTASK 33-14-00-020-005

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

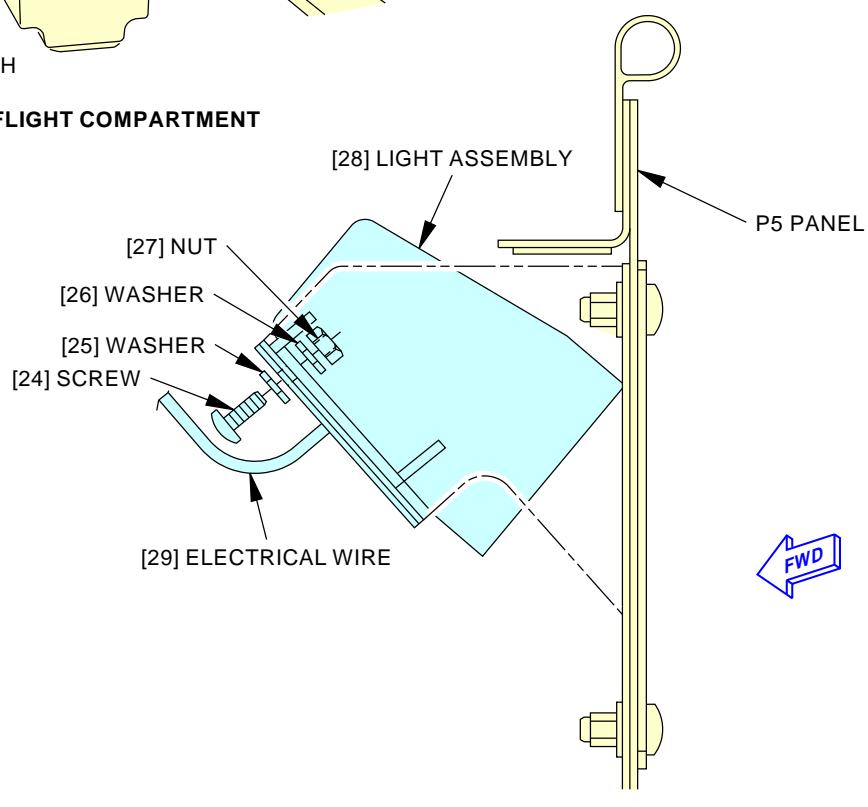
———— END OF TASK ————

EFFECTIVITY
AKS ALL

33-14-00



FLIGHT COMPARTMENT



2306420 S0000504344_V2

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



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AIRCRAFT MAINTENANCE MANUAL

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	AKS 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



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- 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.

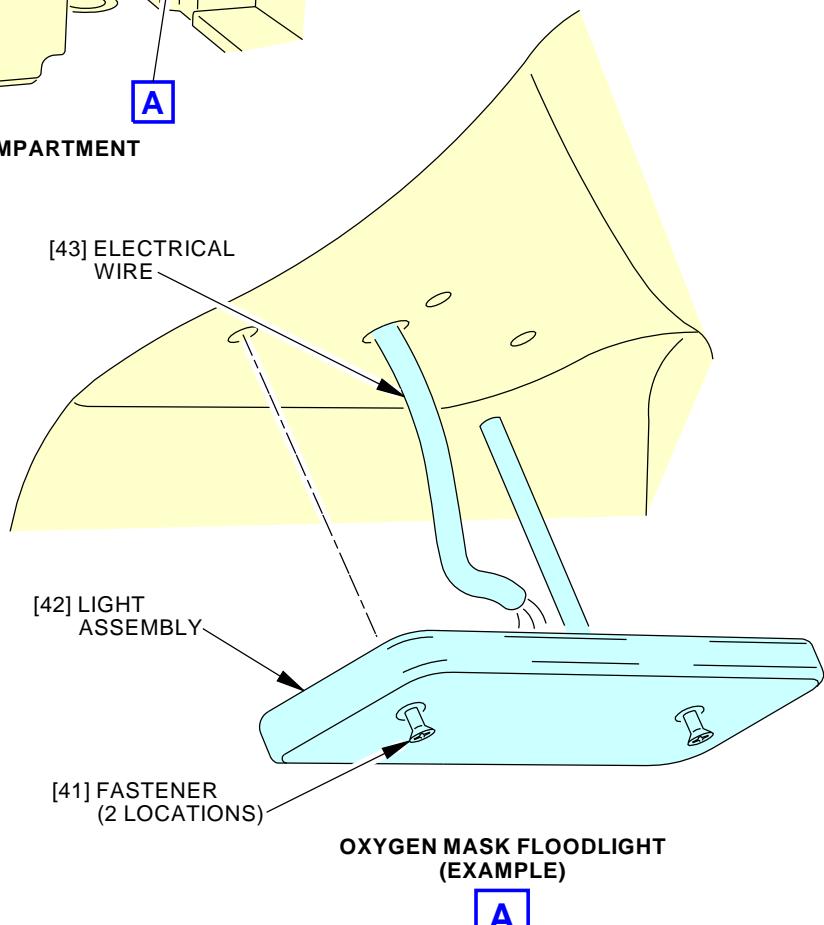
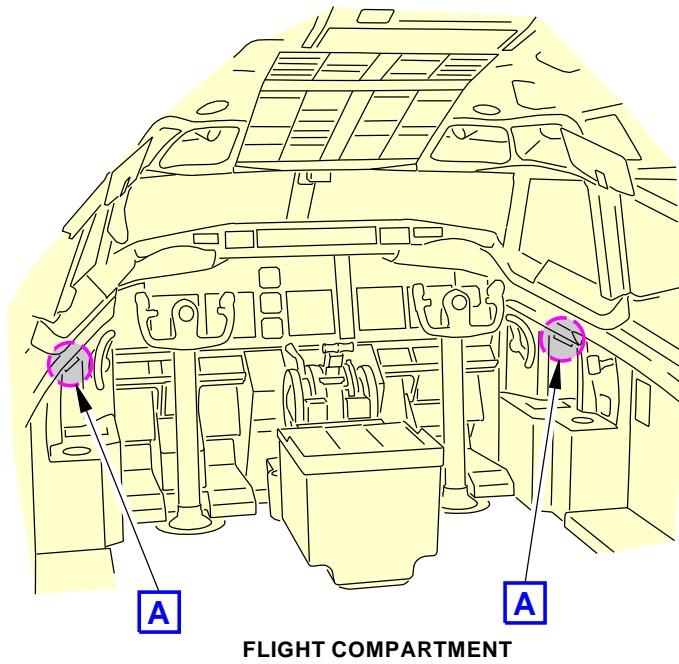
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Oxygen Mask Floodlight - Light Assembly Replacement
Figure 205/33-14-00-990-803

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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	AKS ALL
63	Secondary lamp	33-17-00-02-065	AKS ALL
64	Lamp	33-17-00-02-070	AKS 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:

- (a) Remove the lens [61] or lens [65].
- (b) 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:

- (a) Install the dome light lamp [62] or lamp [64].
- (b) 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:

- (a) On the P5 panel, set the switch for the dome lights to the bright mode.
 - 1) Make sure the light comes on brightly.
- (b) Set the switch to the dim mode.

EFFECTIVITY
AKS ALL

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- 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.

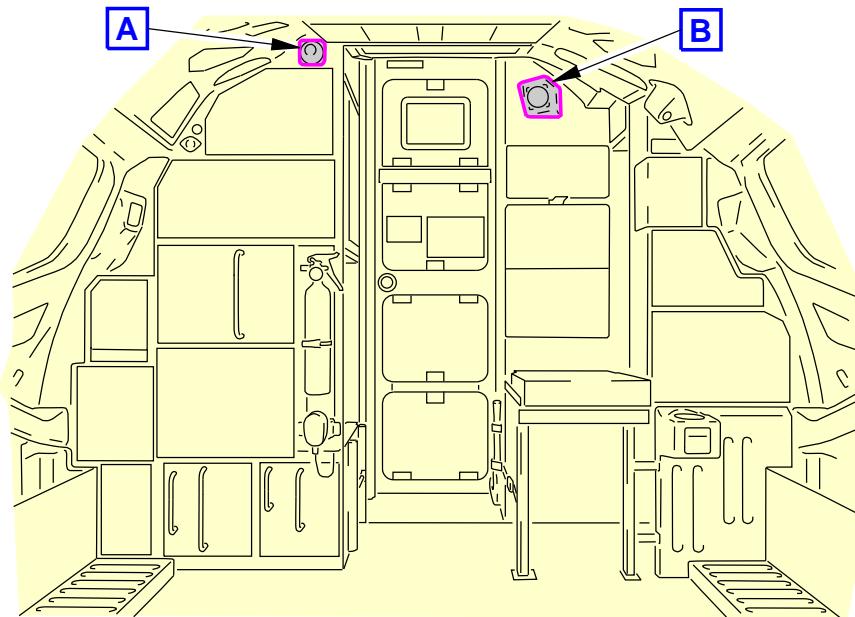
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EFFECTIVITY
AKS ALL

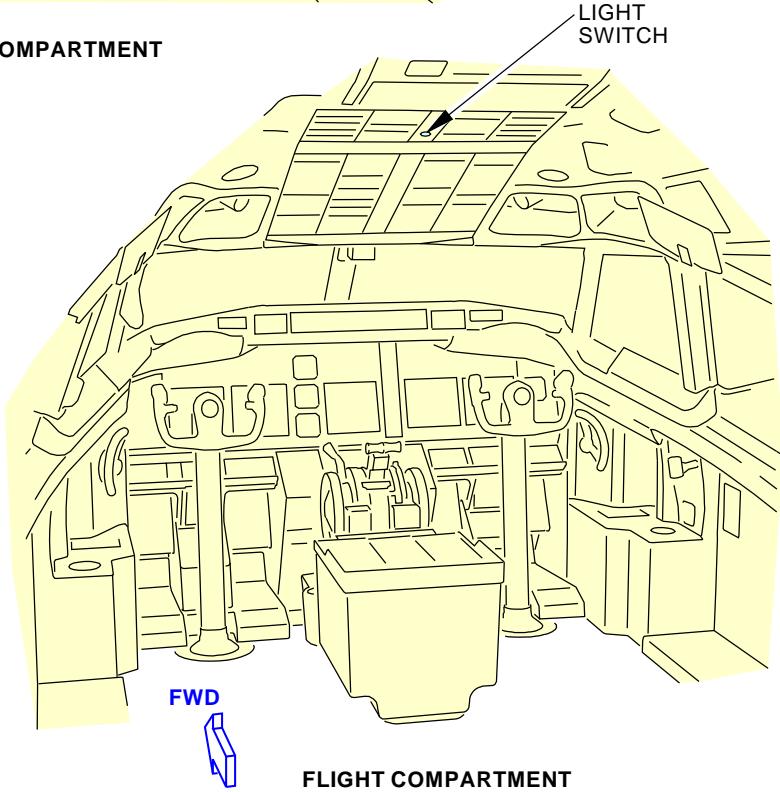
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FLIGHT COMPARTMENT



FLIGHT COMPARTMENT

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

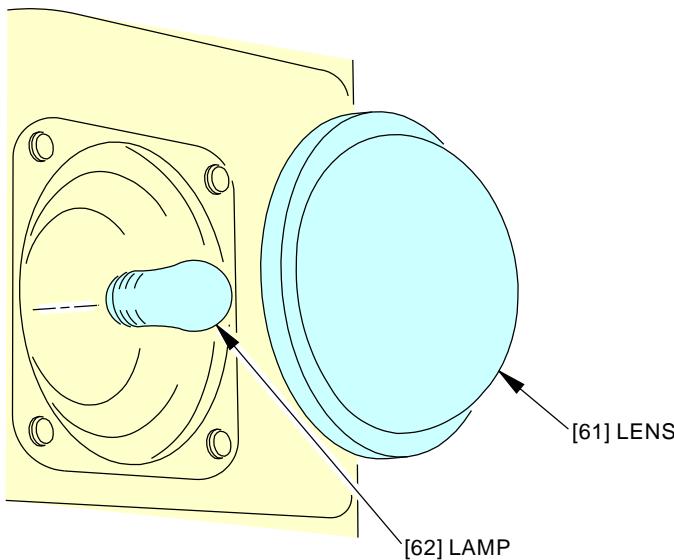
EFFECTIVITY
AKS ALL

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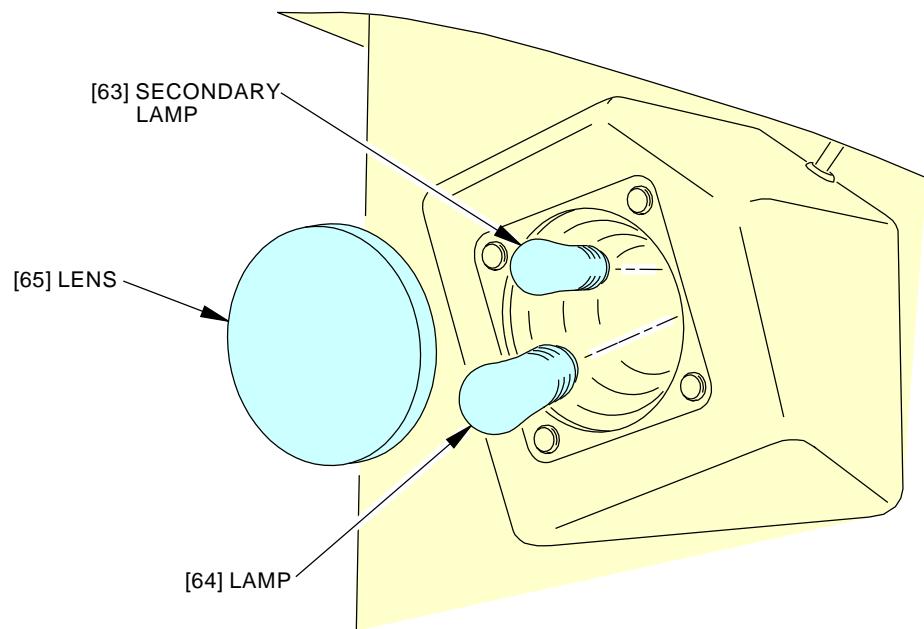
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DOME LIGHT ASSEMBLY

A

DOME LIGHT ASSEMBLY

B

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

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TASK 33-14-00-000-801

9. Left Dome Light - Removal

A. Location Zones

Zone	Area
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

Row	Col	Number	Name
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

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 33-14-12	Wiring Diagram Manual
WDM 33-51-12	Wiring Diagram Manual



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B. Location Zones

Zone	Area
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

Row	Col	Number	Name
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
AKS ALL

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- 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. Location Zones

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

C. 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 33-14-00-960-006

- (2) Do these steps to replace a lamp:
- If the light has a cover, loosen the fastener, [81] or [88], and lift away the cover, [82] or [87].
 - If a shield is installed, remove it, [84] or [85].

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.

- (c) Replace the applicable lamp, [83], [86], or [89].

SUBTASK 33-14-00-860-012

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

SUBTASK 33-14-00-710-005

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

EFFECTIVITY
AKS ALL

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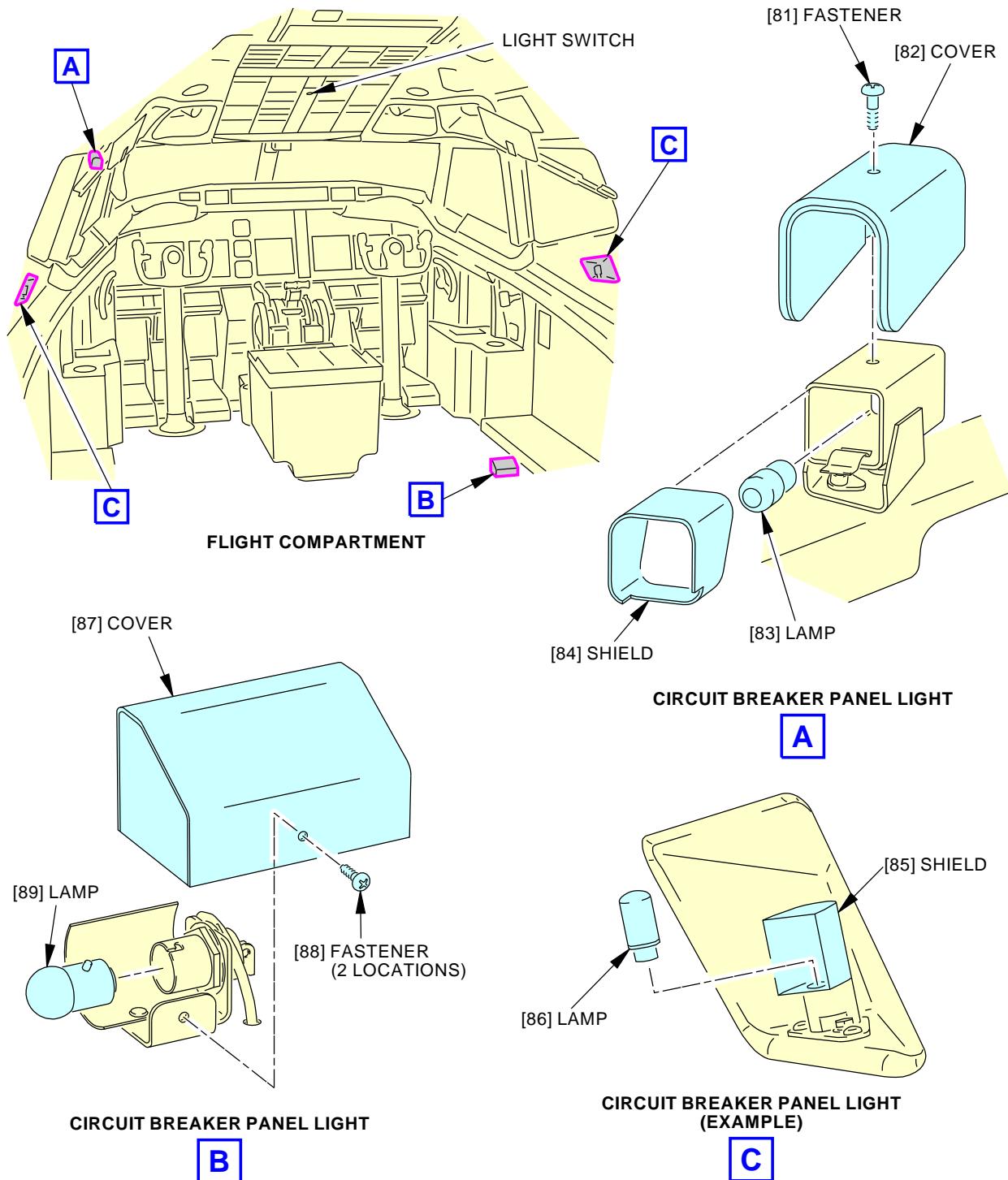
SUBTASK 33-14-00-860-013

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

———— END OF TASK ——

EFFECTIVITY
AKS ALL

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**Circuit Breaker Panel Light - Lamp Replacement
Figure 207/33-14-00-990-805**
33-14-00



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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	AKS ALL
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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.

———— END OF TASK ————

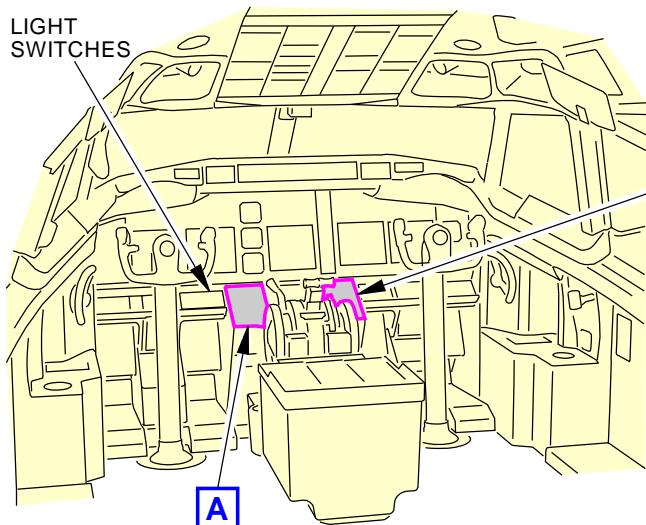
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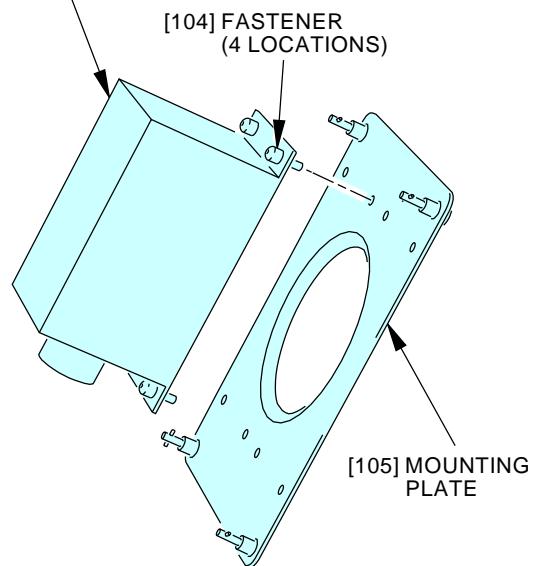
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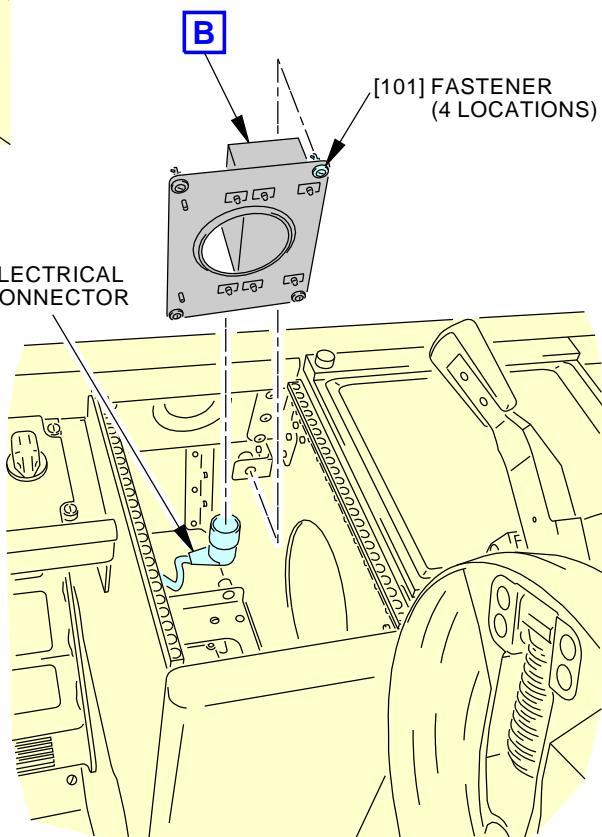
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A
FLIGHT COMPARTMENT

[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
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33-14-00

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TASK 33-14-00-710-801

13. Panel Floodlights - Operational Test of the Standby Relay

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)

B. Location Zones

<u>Zone</u>	<u>Area</u>
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

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

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

<u>Zone</u>	<u>Area</u>
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

<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

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.

EFFECTIVITY
AKS ALL

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- (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 ————

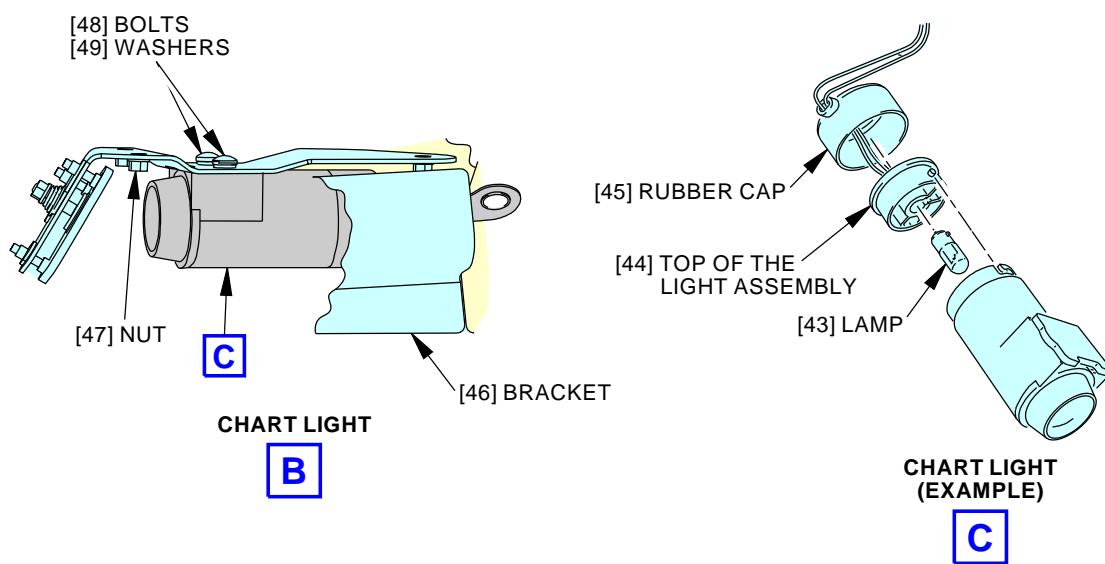
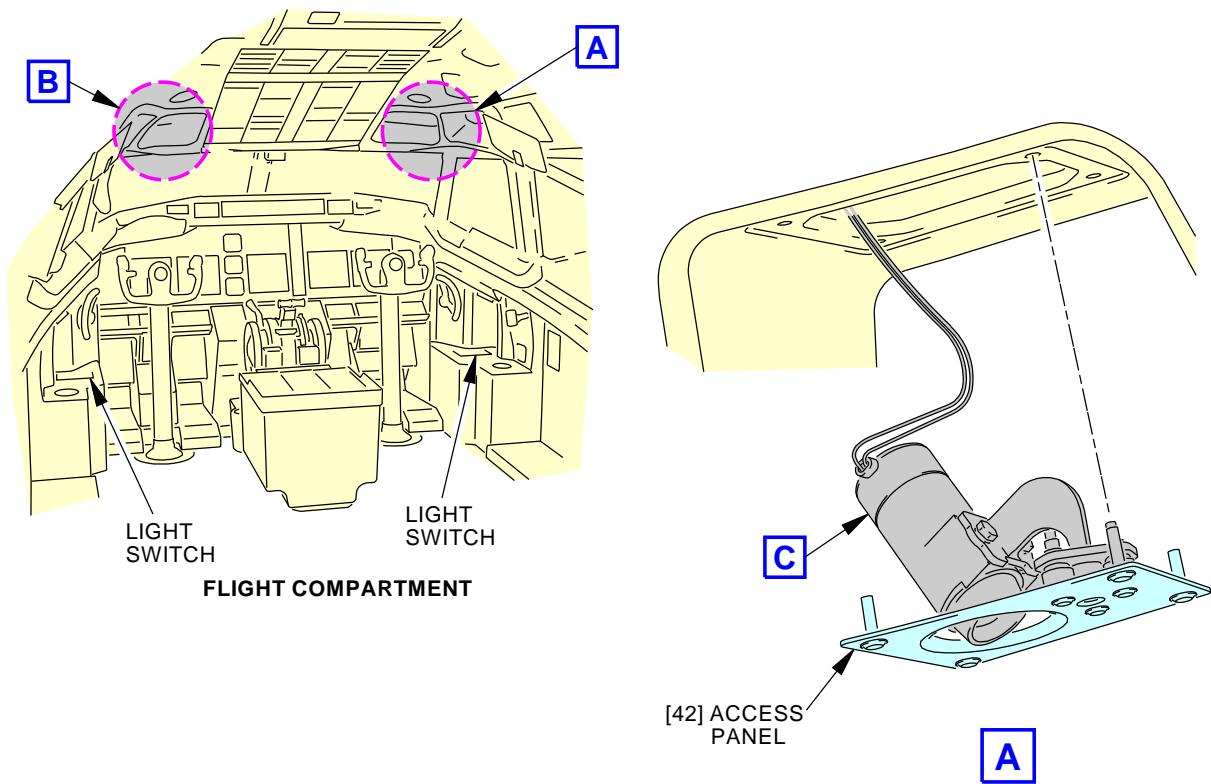
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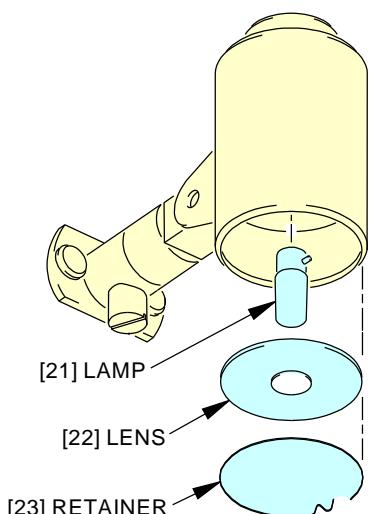
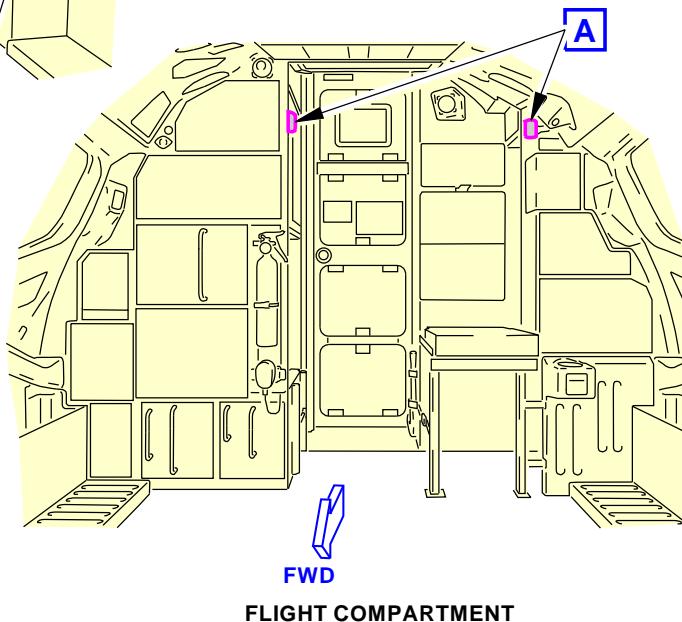
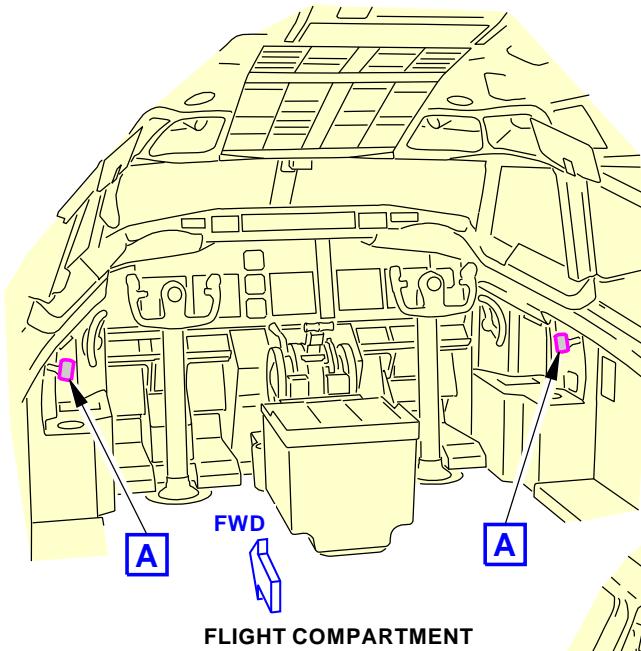
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Chart Light - Lamp Replacement
Figure 201/33-17-00-990-804 (Sheet 1 of 3)

 EFFECTIVITY
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33-17-00

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**FLIGHT KIT/READING LIGHT
(EXAMPLE)**



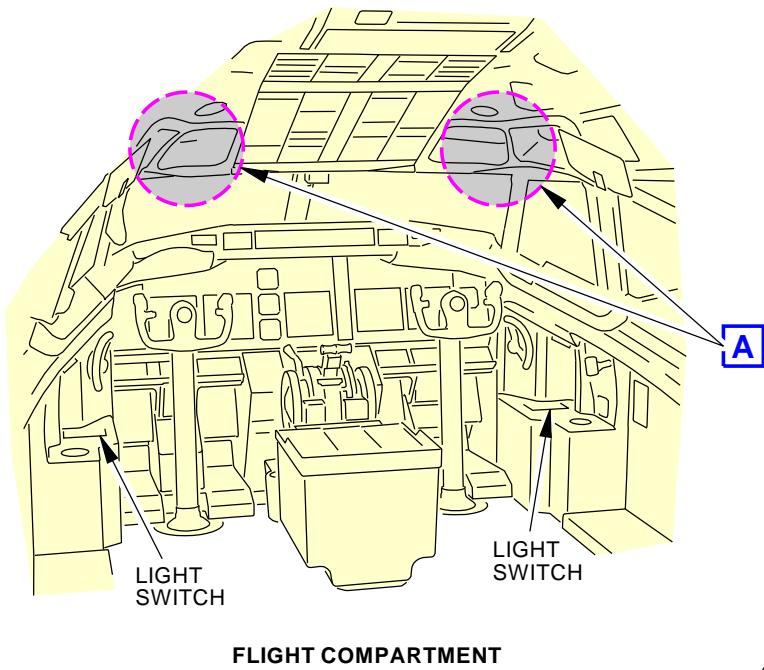
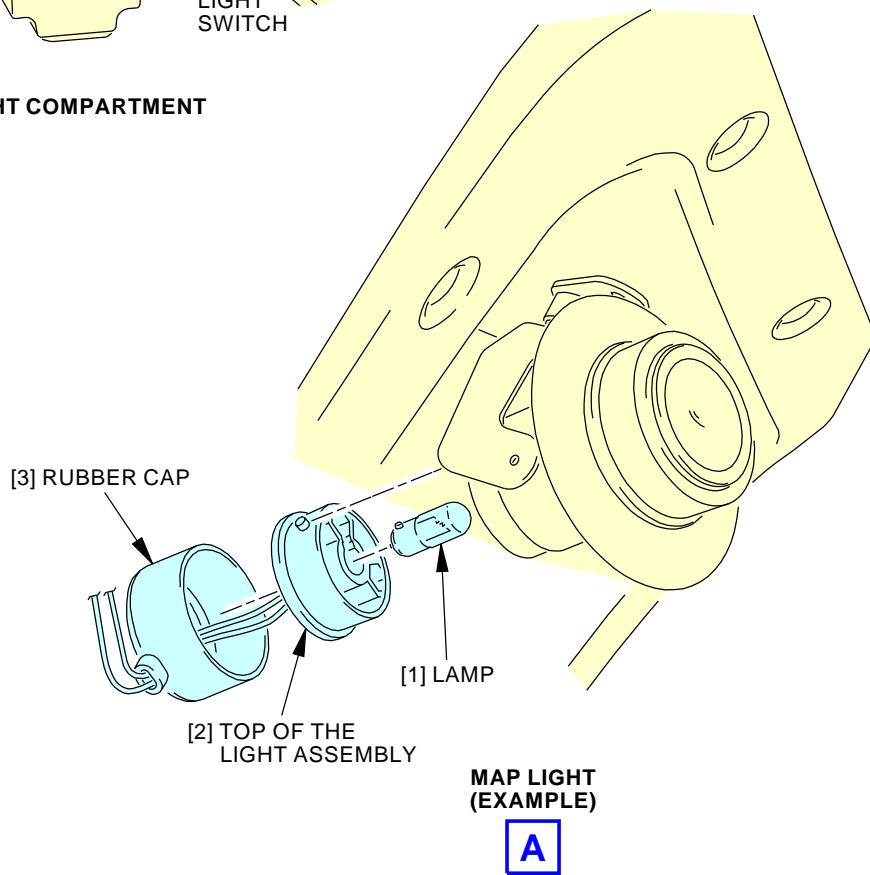
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Chart Light - Lamp Replacement
Figure 201/33-17-00-990-804 (Sheet 2 of 3)

EFFECTIVITY
AKS ALL

33-17-00

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FLIGHT COMPARTMENT

**MAP LIGHT
(EXAMPLE)**
A

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

C. Procedure

SUBTASK 33-17-00-860-011

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

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

———— END OF TASK ————

TASK 33-17-00-960-801

4. Map 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 33-17-11	Wiring Diagram Manual

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Lamp	33-17-00-21-100	AKS ALL
		33-17-00-22-100	AKS ALL

C. Location Zones

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

D. Procedure

SUBTASK 33-17-00-860-001

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

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):

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- (a) Turn the light assembly for access to the back of it.
- (b) Lift off the rubber cap [3].
- (c) Remove the top of the light assembly [2].
- (d) Replace the lamp [1].
- (e) Install the top of the light assembly [2].
- (f) Put on the rubber cap [3].
- (g) 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.

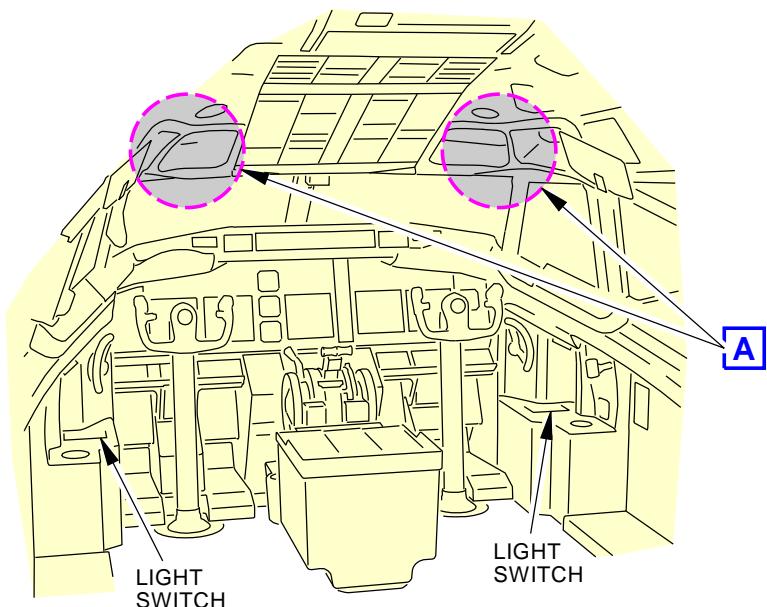
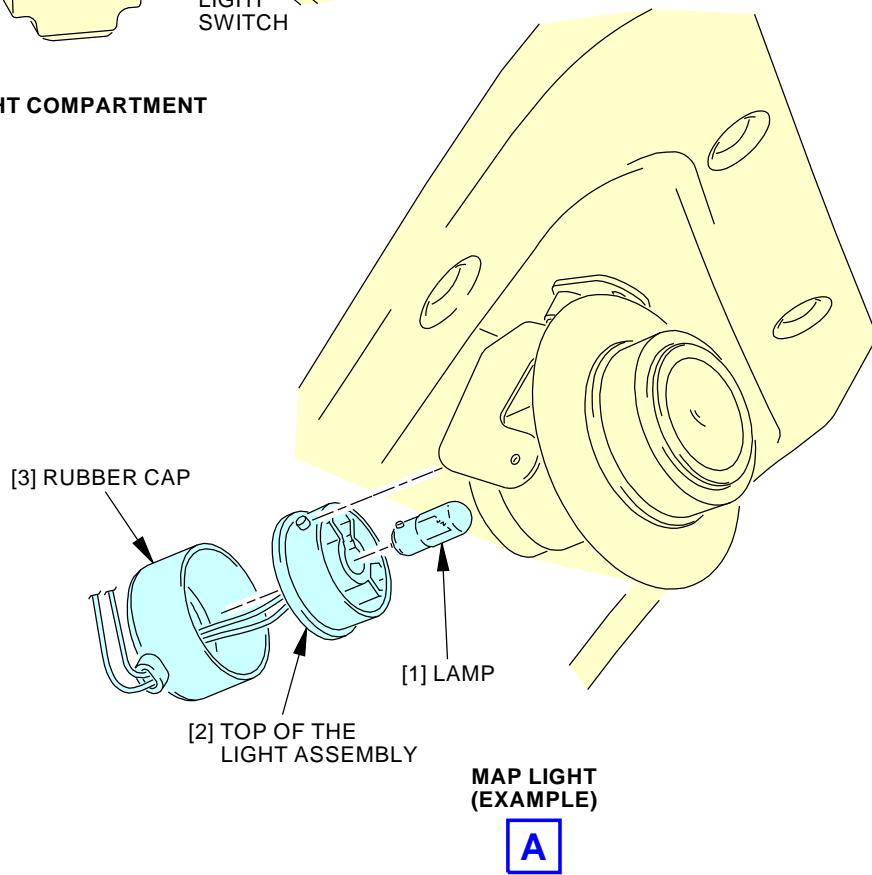
SUBTASK 33-17-00-860-003

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

———— END OF TASK ————

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FLIGHT COMPARTMENT

**MAP LIGHT
(EXAMPLE)**

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

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AIRCRAFT MAINTENANCE MANUAL

TASK 33-17-00-960-802

5. Flight Kit/Reading Light - 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)
WDM 33-17-11	Wiring Diagram Manual

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
21	Lamp	33-17-00-07-035	AKS ALL
		33-17-00-15-040	AKS 007, 008, 011, 012, 014, 019, 026, 028-999

C. Location Zones

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

D. Procedure

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 33-17-00-960-002

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

SUBTASK 33-17-00-860-005

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

SUBTASK 33-17-00-710-002

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

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



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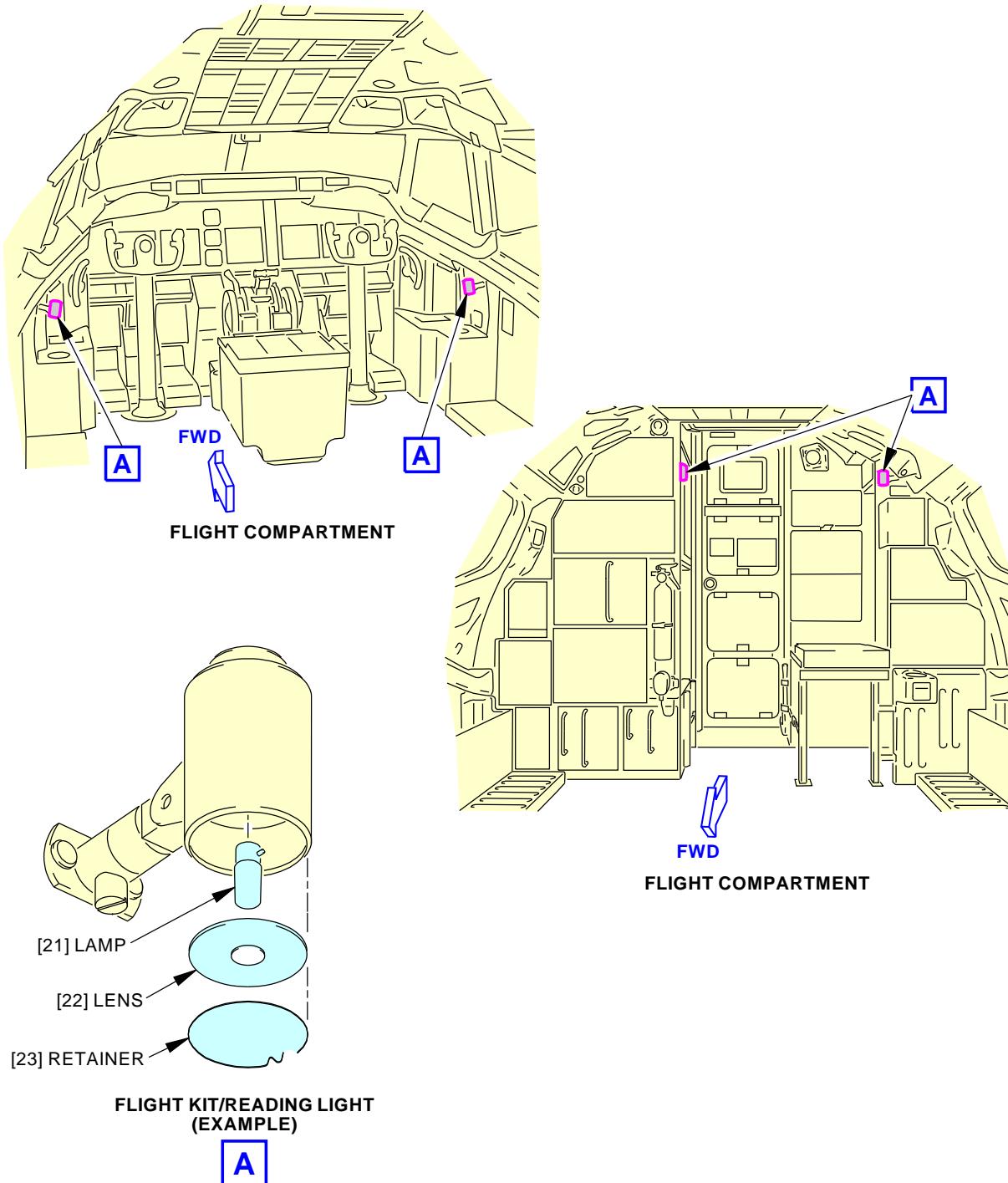
SUBTASK 33-17-00-860-006

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

———— END OF TASK ——

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

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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	AKS ALL
		33-17-00-01-635	AKS 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].
- (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.



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- 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.

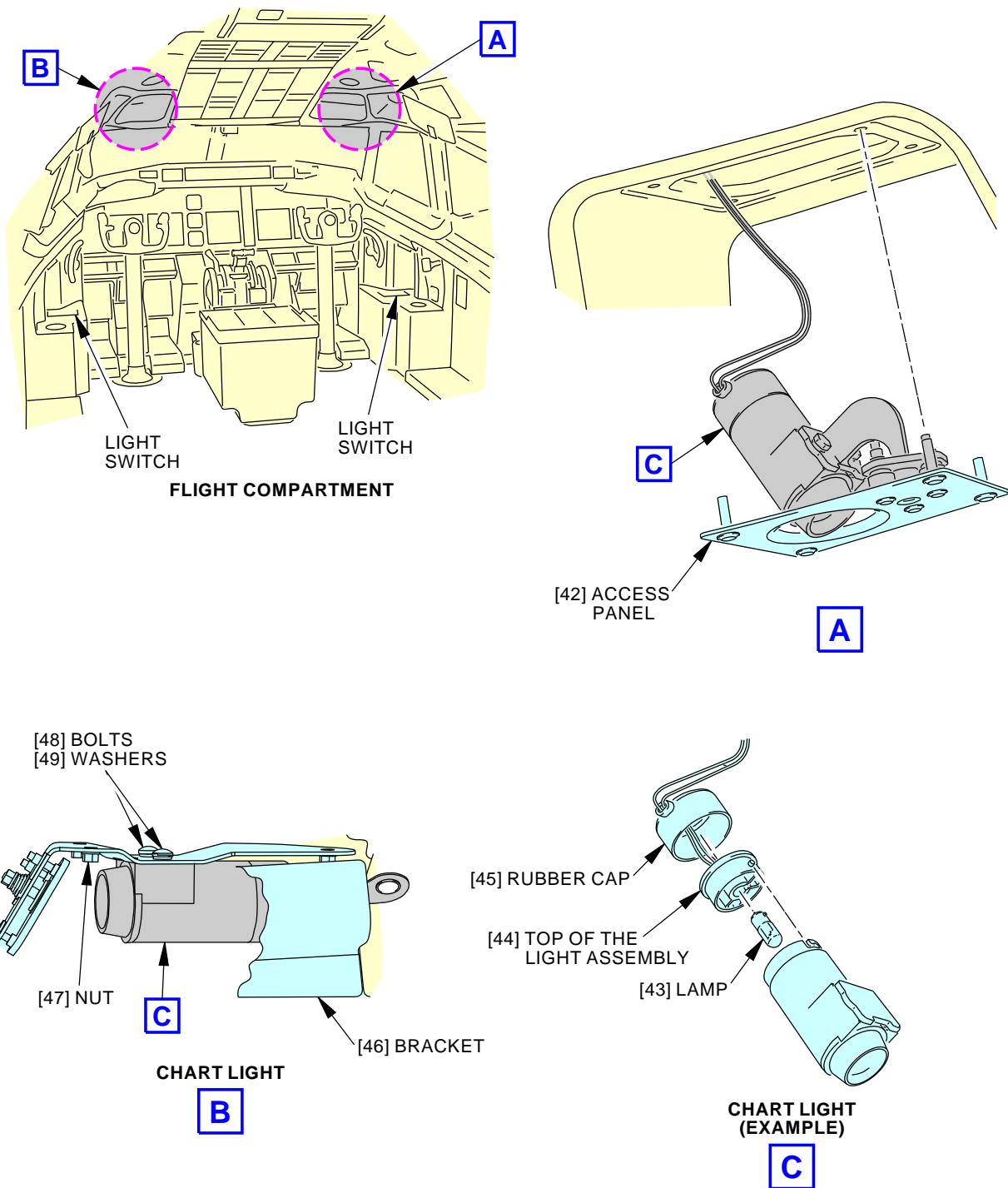
SUBTASK 33-17-00-860-009

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

———— END OF TASK ————

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

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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>
AKS 001-024, 026, 028-999			
A	6	C00148	ANTI-ICE & RAIN ENG 1 & WING CONT
AKS 025, 027			
A	6	C00148	ANTI-ICE-RAIN ENG 1/WING CONT-ICE DET
AKS 001-024, 026, 028-999			
B	6	C00149	ANTI-ICE & RAIN ENGINE 2 CONTROL
AKS 025, 027			
B	6	C00149	ANTI-ICE-RAIN ENG 2/CONT & ICE DET

F/O Electrical System Panel, P6-2

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

EFFECTIVITY	AKS ALL
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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
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

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.

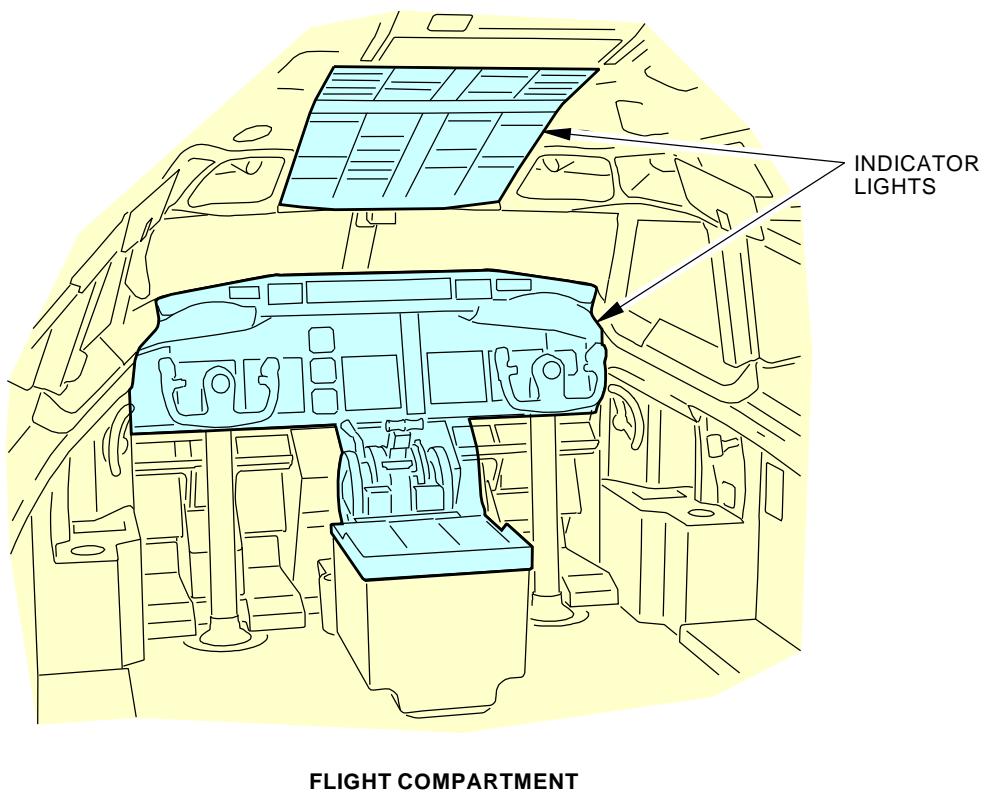
———— END OF TASK ————



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

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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

Row Col Number Name

AKS 001-024, 026, 028-999			
A	6	C00148	ANTI-ICE & RAIN ENG 1 & WING CONT
AKS 025, 027			
A	6	C00148	ANTI-ICE-RAIN ENG 1/WING CONT-ICE DET
AKS 001-024, 026, 028-999			
B	6	C00149	ANTI-ICE & RAIN ENGINE 2 CONTROL
AKS 025, 027			
B	6	C00149	ANTI-ICE-RAIN ENG 2/CONT & ICE DET

F/O Electrical System Panel, P6-2

Row Col Number Name

AKS ALL			
A	21	C00396	FIRE PROT DETECTION MA WRN & CONT
B	9	C00440	FLIGHT CONTROL AUTO SPEED BRAKE

F/O Electrical System Panel, P6-3

Row Col Number Name

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

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(Continued)

F/O Electrical System Panel, P6-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
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 33-18-00-960-801

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.

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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.

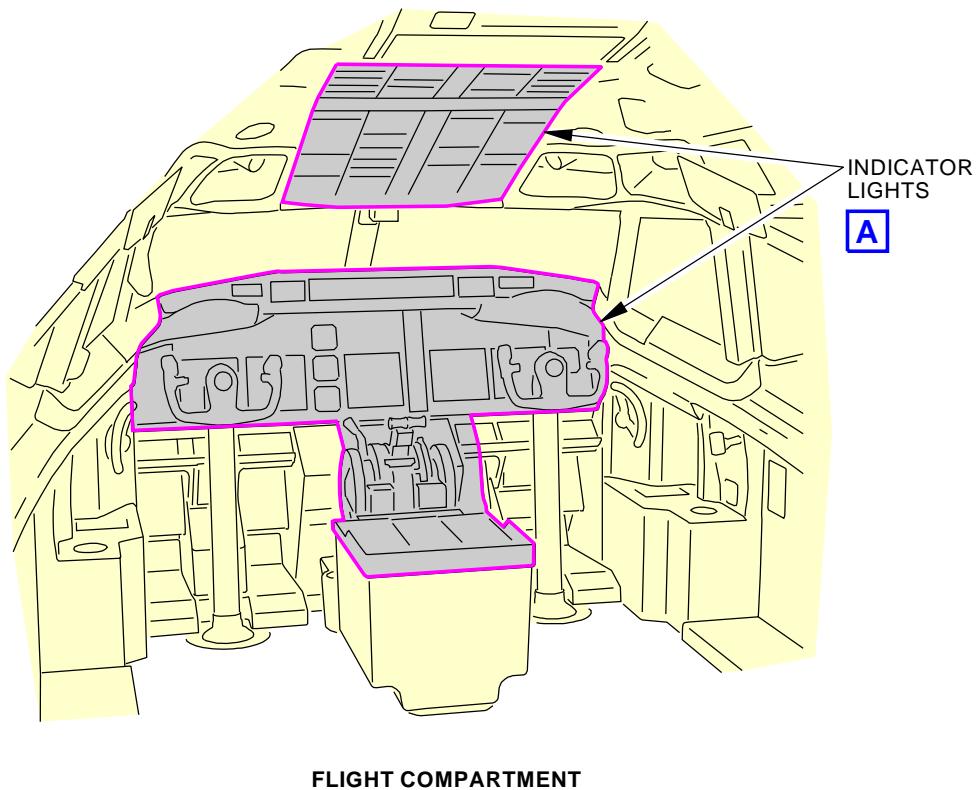
———— END OF TASK ————

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

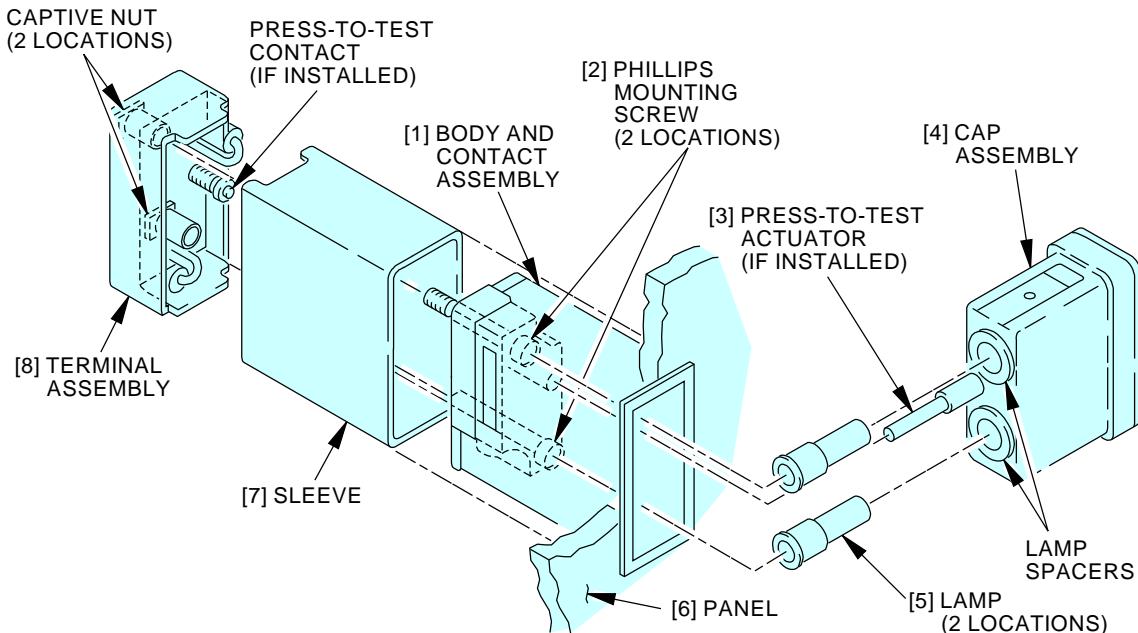
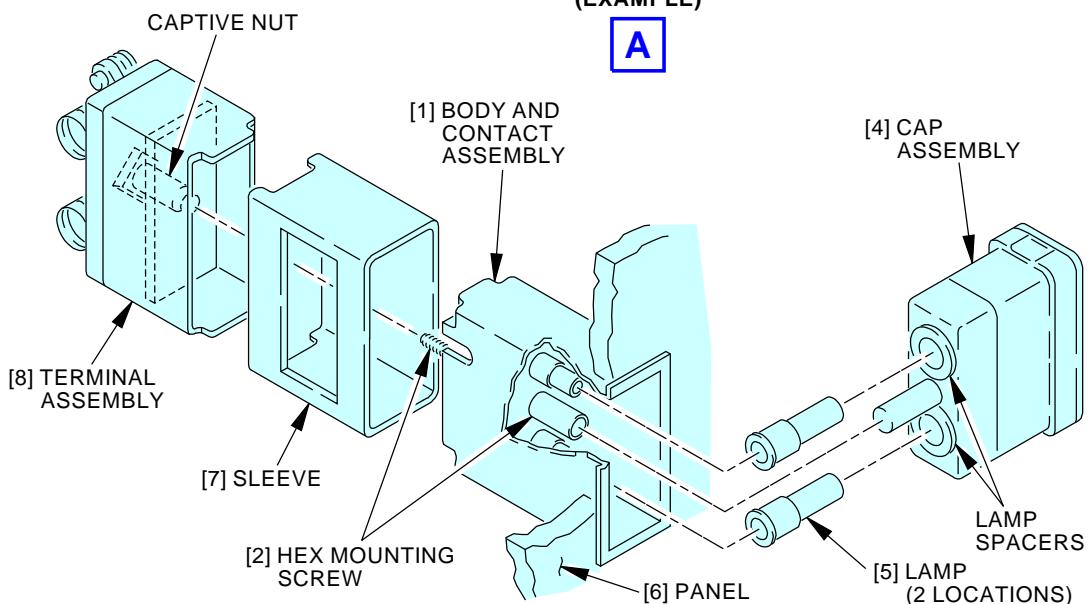
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**INDICATOR LIGHT WITH PHILLIPS MOUNTING CREWS
(EXAMPLE)**
A

**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)**
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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.

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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)

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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]:

CAUTION: 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

WARNING: 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).

CAUTION: 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].



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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.

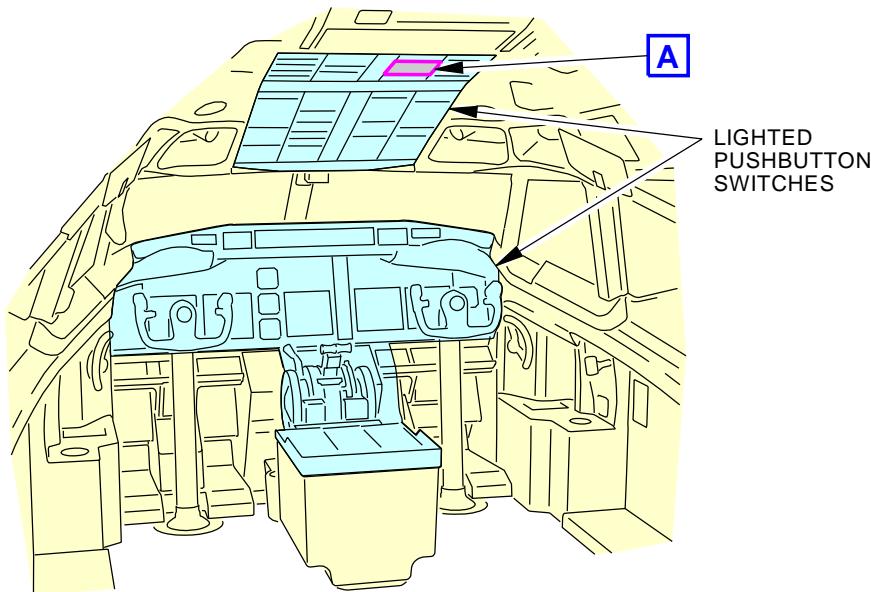
WARNING: THE OPERATION OF A SWITCH WILL CAUSE ITS SYSTEM TO OPERATE. THE ACCIDENTAL OPERATION OF A SYSTEM CAN CAUSE INJURY TO PERSONS OR DAMAGE TO EQUIPMENT.

 - 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.

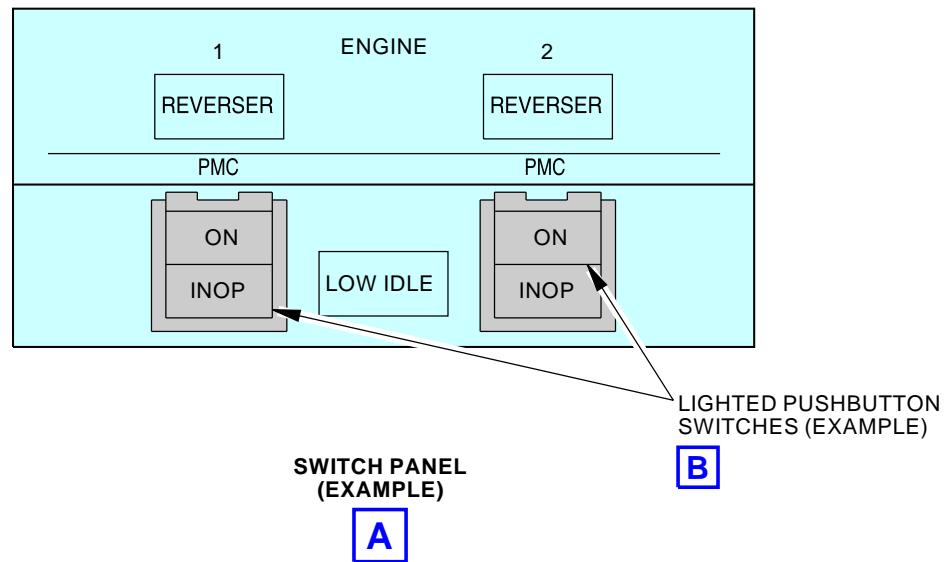
———— END OF TASK ————

EFFECTIVITY
AKS ALL

33-18-00



FLIGHT COMPARTMENT

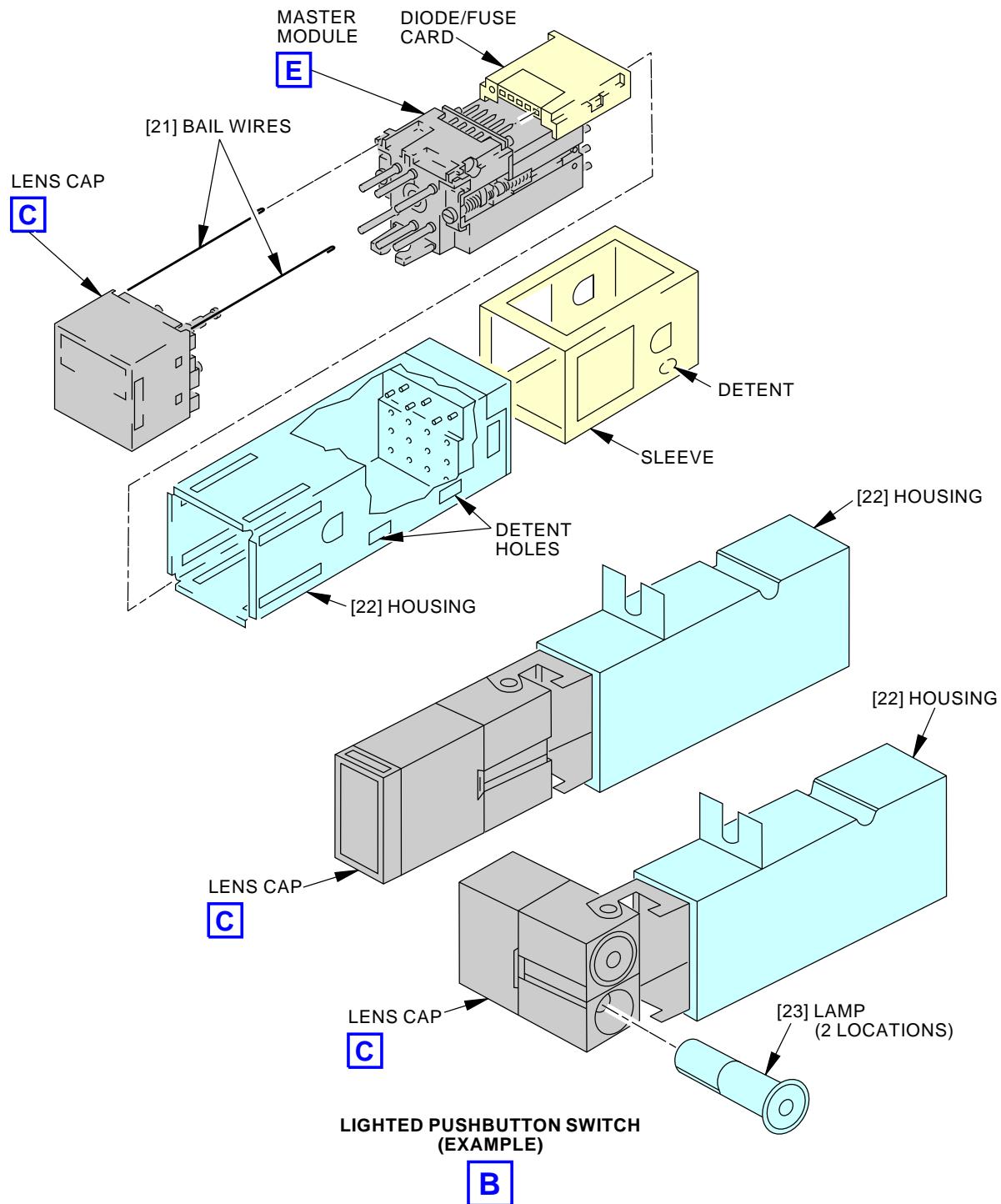


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Lighted Pushbutton Switch
Figure 203/33-18-00-990-803 (Sheet 1 of 3)

EFFECTIVITY
AKS ALL

33-18-00

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AIRCRAFT MAINTENANCE MANUAL**


G44010 S0006575981_V3

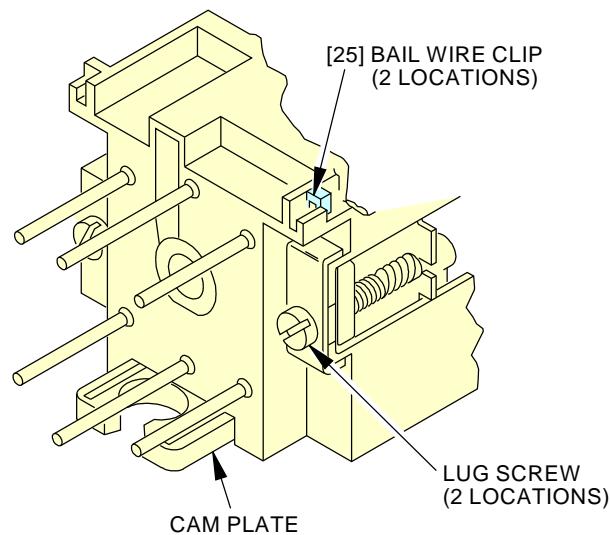
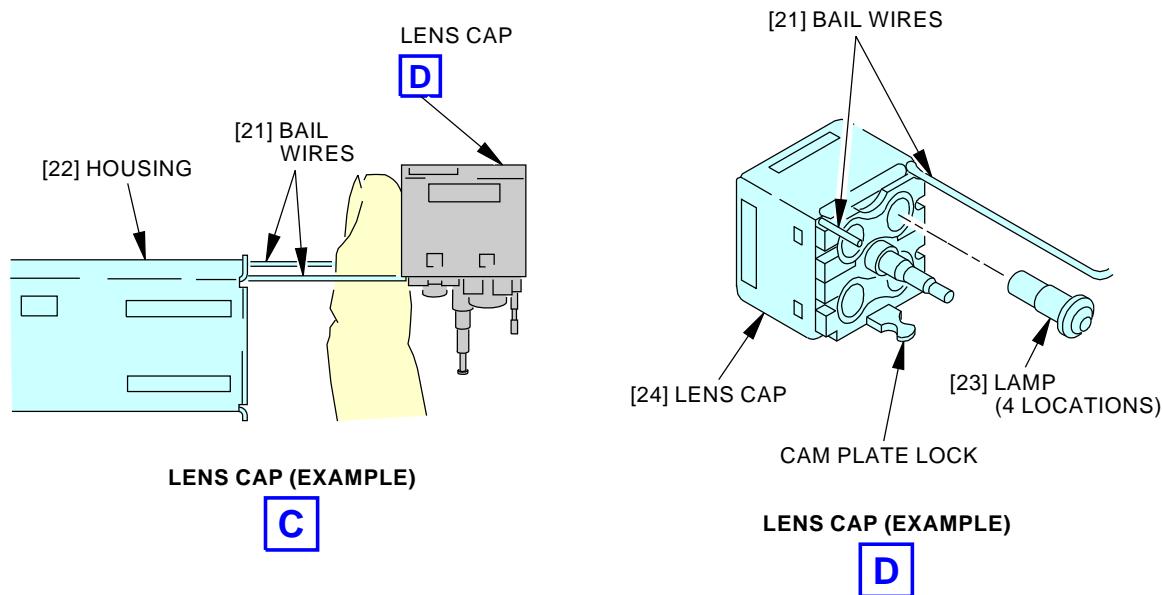
Lighted Pushbutton Switch
Figure 203/33-18-00-990-803 (Sheet 2 of 3)

EFFECTIVITY
AKS ALL

33-18-00



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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
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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. References

Reference	Title
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 33-18-00-960-004

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

SUBTASK 33-18-00-710-005

- (2) Do these steps to test the replacement lightplate [41]:
 - (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 the lightplate [41] 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.



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SUBTASK 33-18-00-860-010

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

———— END OF TASK ——

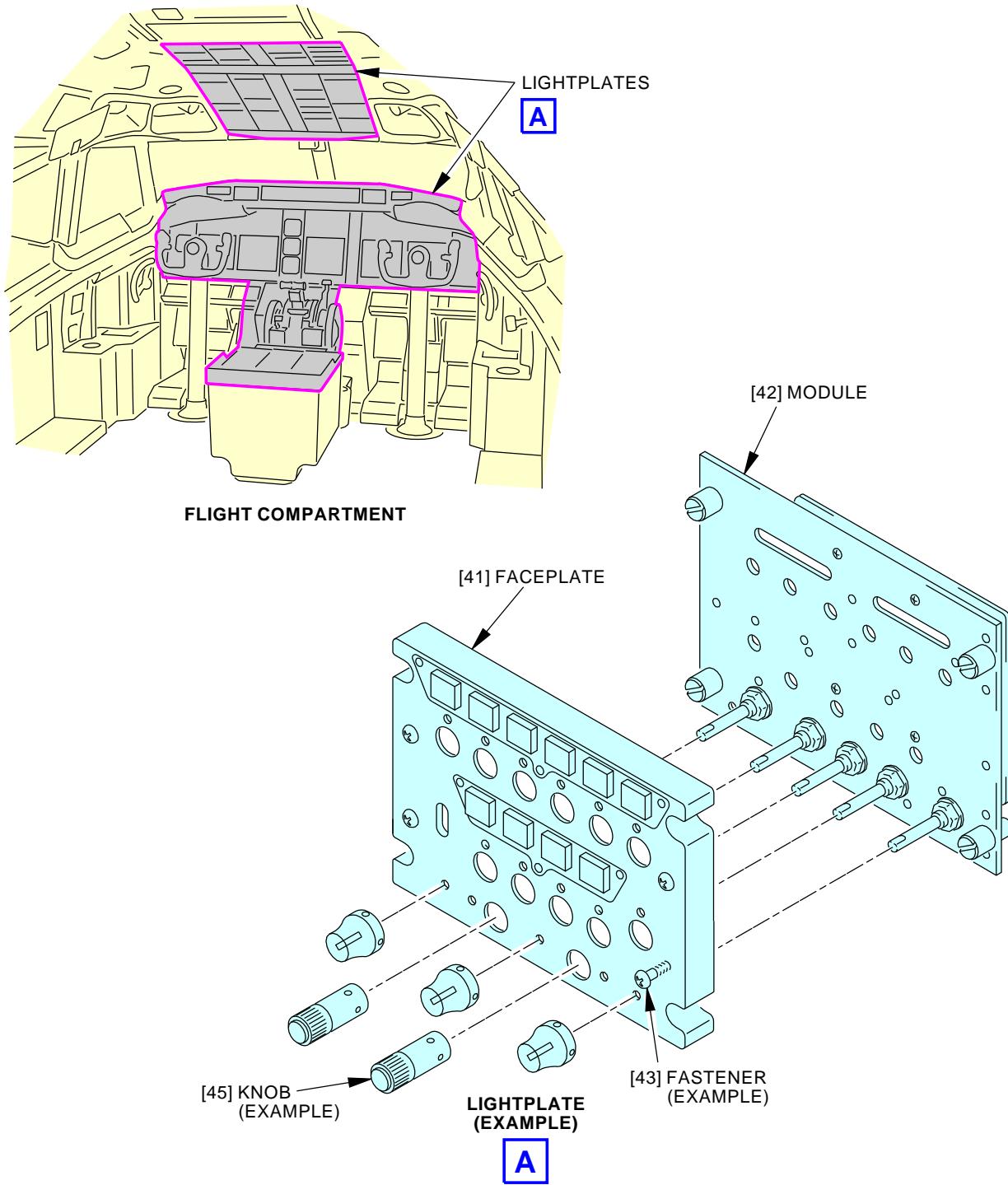
EFFECTIVITY
AKS ALL

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G44026 S0006575984_V2

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

 EFFECTIVITY
 AKS 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 procedure provides instructions to replace the annunciator and dimming module:

B. Location Zones

Zone	Area
110	Subzone - Body Station 130 to Station 396

C. Access Panels

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

D. Procedure

SUBTASK 33-18-00-860-015

- (1) To get access to the annunciator and dimming module, do this step:
 - (a) Open these access panels:

Number	Name/Location
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:

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 33-18-00-960-005

- (3) Do these steps to remove the annunciator and dimming module, M469:
 - (a) Disconnect the three wire bundle plugs [1] from the module connectors and move them to one side.
 - (b) While holding the module in place, remove the fasteners [2] attaching the module to the P19 panel and remove the module.

SUBTASK 33-18-00-960-006

- (4) Do these steps to install the annunciator and dimming module, M469:
 - (a) Position the new module on the P19 panel and attach it with the four fasteners [2].
 - (b) Reconnect the wire bundle plugs [1] to the module mating connectors.

SUBTASK 33-18-00-860-017

- (5) Close these access panels:

Number	Name/Location
113AC	Fwd Nose Wheel Well Upper Access Panel

EFFECTIVITY
AKS ALL

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(Continued)

Number Name/Location

114AC Fwd Nose Wheel Well Upper Access Panel

SUBTASK 33-18-00-860-018

- (6) 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 33-18-00-710-007

- (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 ————

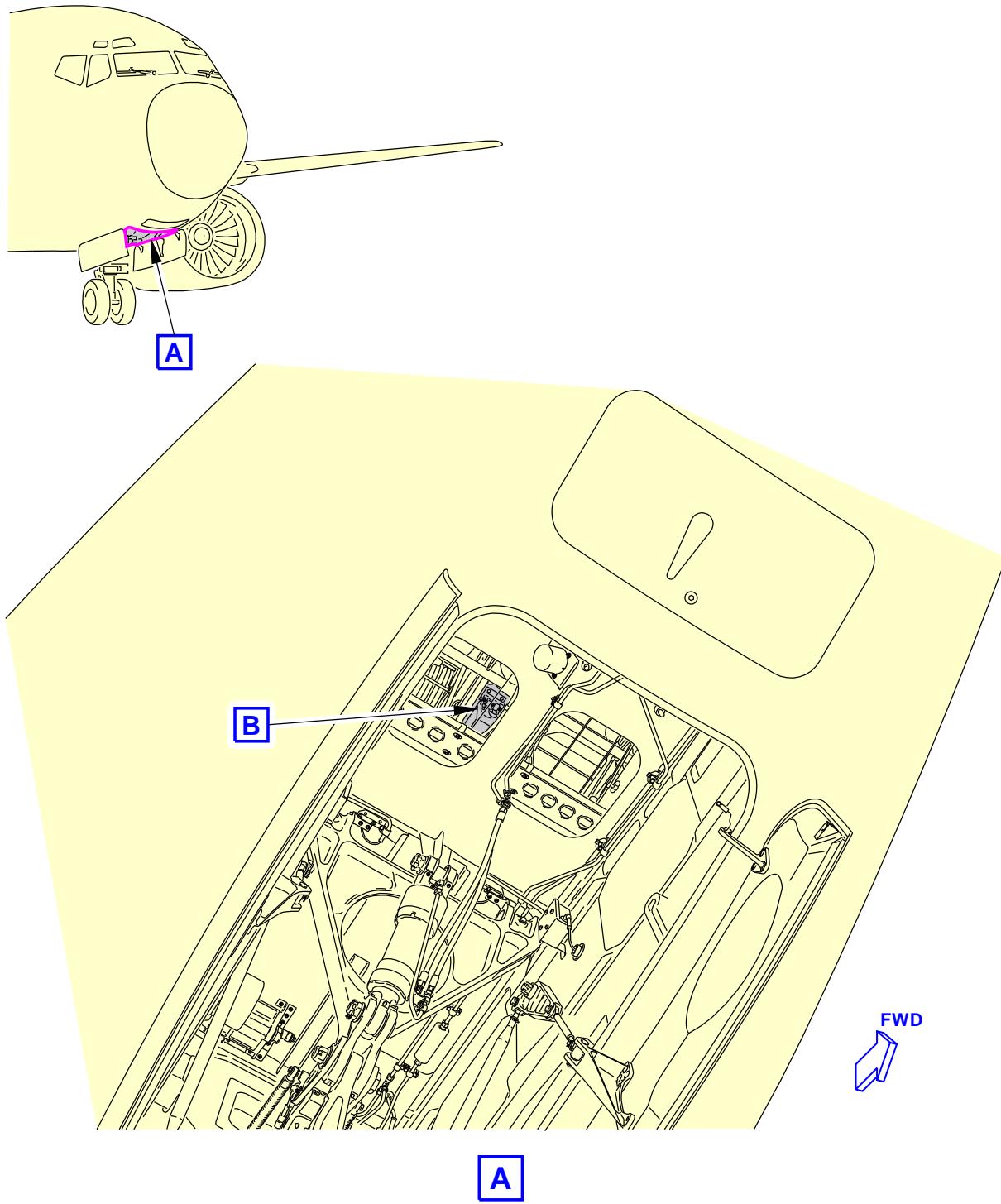
EFFECTIVITY
AKS ALL

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

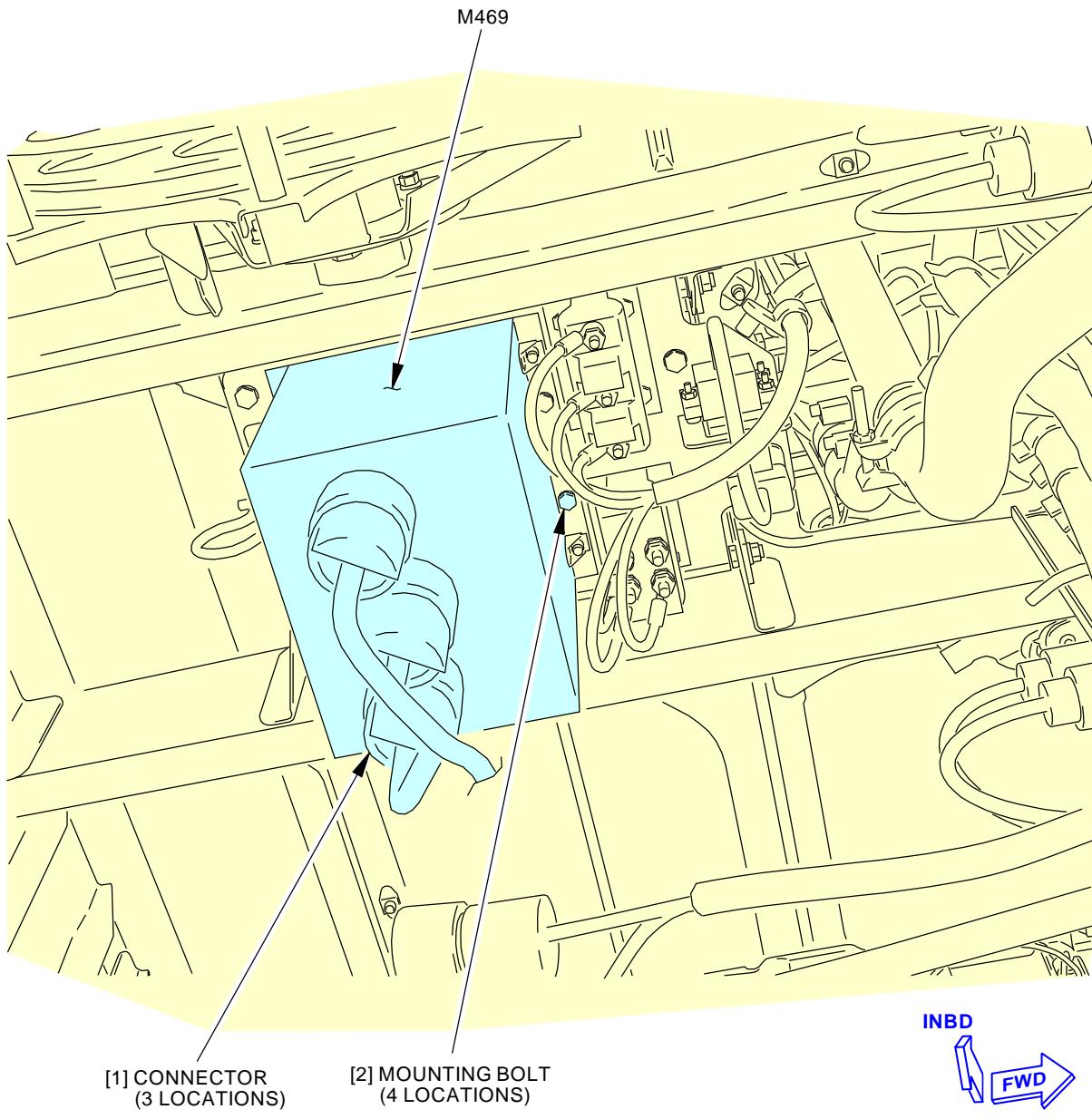
EFFECTIVITY
AKS ALL

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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)

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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].

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AKS 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 ————

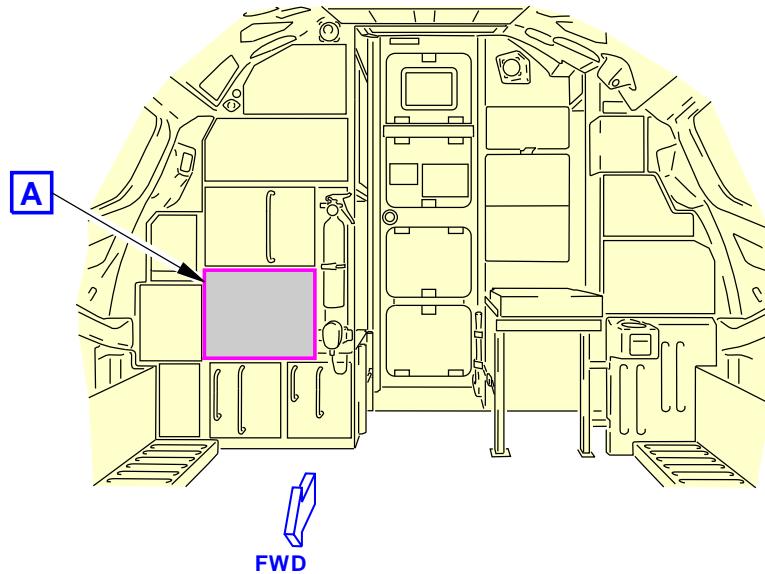


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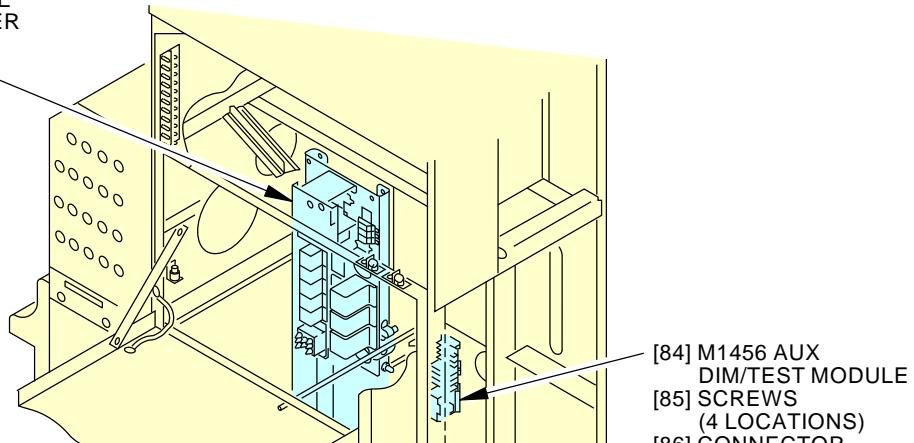
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- [81] M564 MASTER DIM/TEST MODULE
- [82] MODULE RETAINER
- [83] SCREWS (2 LOCATIONS)



(PANEL NOT SHOWN)



2028704 S0000404198_V2

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

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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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- (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, 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

NOTE: The parking brake light is installed on the vertical surface on the aft side of the P10.

- a) To complete the test of the parking brake light, push the annunciator, then release it.

- (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) At the P10 panel, set the parking brake.

- (c) At the P5 panel, do these steps:

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- 1) Set the emergency light switch to the usual mode.
- 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.

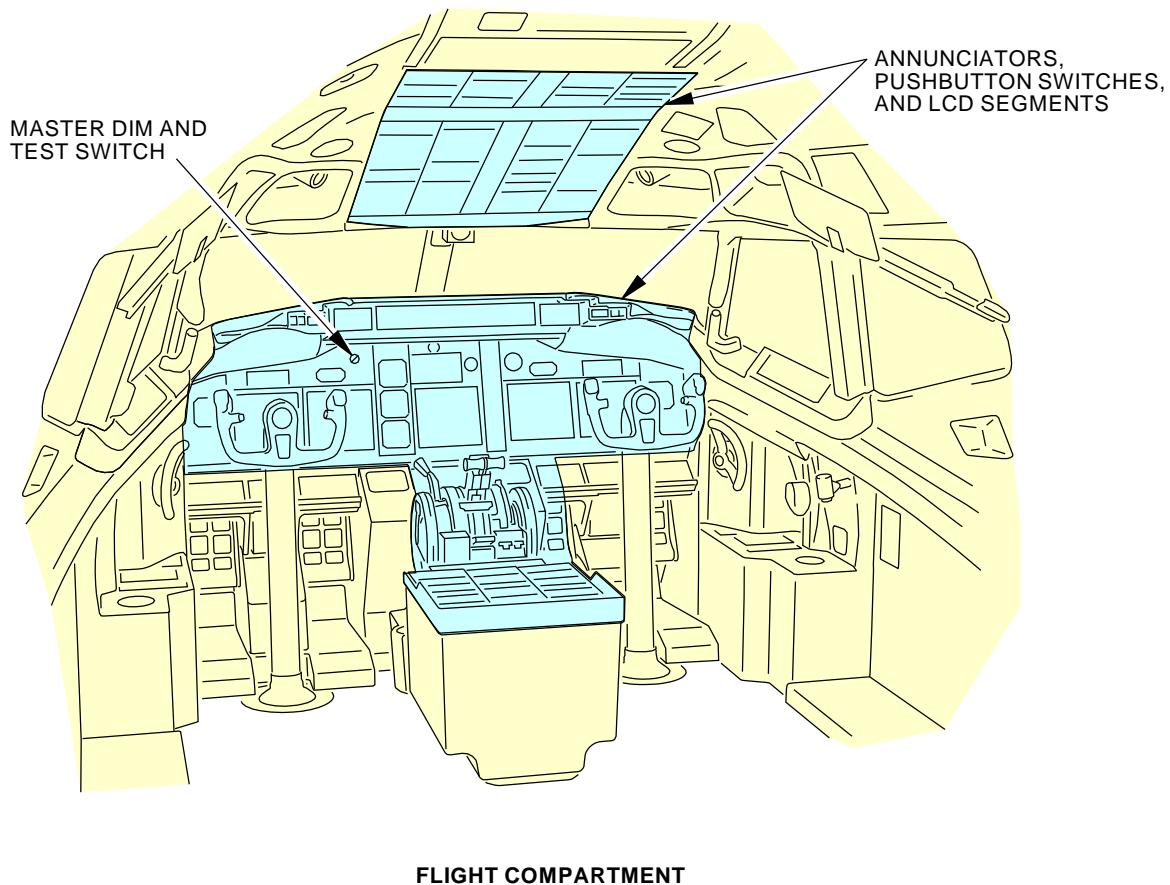
———— END OF TASK ————

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FLIGHT COMPARTMENT

M23240 S0006575989_V2

Master Dim and Test System Test
Figure 207/33-18-00-990-806

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PASSENGER COMPARTMENT LIGHTS - ADJUSTMENT/TEST

1. General

- A. This procedure contains scheduled maintenance task data.
- B. This procedure has this task:
 - (1) Passenger Compartment Lights - Operational Tests

TASK 33-20-00-710-804-001

2. 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
 - 4) Direct lights
 - 5) Cove lights
 - (b) Forward/Aft entry area:
 - 1) Direct Entry lights
 - 2) Attendant Work lights
 - (c) Information signs
 - (d) Lavatory mirror lights
 - (e) Lavatory-occupied signs
 - (f) Passenger call lights
 - (g) Lavatory call 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)
32-00-01-080-801	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

Zone	Area
200	Upper Half of Fuselage





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D. Prepare for the Operational Test

SUBTASK 33-20-00-860-012

- (1) 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 33-20-00-860-015

- (2) Make sure the CAB/UTIL switch at the P5-13 panel is set to the ON position.

E. Operational Test

SUBTASK 33-20-00-710-043

AKS ALL; AIRPLANES WITH BSI GEN 2

- (1) Do a LAMP TEST from the 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) If necessary, input the password to get access to the attendant control panel.
 - (c) At the ACP, set lights to the ON mode.

NOTE: Use the ACP maintenance display. On the ACP display, touch the MAINTENANCE tab. When the ACP changes to the maintenance display, touch LAMP TESTS.

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- (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.

| AKS 011, 012, 014, 019, 026, 028-999

- (a) Do a test of the lights in the passenger seating area. To do the test, do these steps at each applicable attendant control panel:

NOTE: The lights can take at least 5 seconds to change.

- 1) Make sure that the attendant control panel display is activated. 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.

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AKS 001-010, 013, 015-018, 020-025, 027

- (b) Do a test of the lights in the passenger seating area. To do the test, do these steps at each applicable attendant control panel:

NOTE: The lights can take at least 5 seconds to change.

- 1) Make sure that the attendant control panel display is activated. 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 Both Zones button.
 - 4) Below the Passenger Seating Area, touch the White BRIGHT button.
 - a) Make sure that the lights come on brightly.
 - 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 Forward Zone button.
 - 7) 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.
- 8) Below the Passenger Seating Area, touch the Aft Zone button.
 - 9) 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.
- 10) Below the Passenger Seating Area, touch the OFF button.
 - a) Make sure that the lights go off.

AKS ALL

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. To do the test, do these steps at each applicable attendant control panel:

- 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
- 3) Below the Forward Entry Area, Entry section, touch the White MEDIUM button.
 - a) Make sure that the direct entry light becomes medium.
- 4) Below the Forward Entry Area, Entry section, touch the OFF button.
 - a) Make sure that the direct entry light goes off.
- 5) Below the Forward Entry Area, Work section, touch the button to set it to ON.





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- 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. To do the test, do these steps at each attendant control panel:

- 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.
 - b) 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.

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- 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. To do it, do this task: 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 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.

- (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.
 - 2) 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 the attendant work lights go off.

- (i) Put the airplane in the ground mode. To do it, do this task: 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>
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F	7	C00156	OXYGEN IND
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- (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 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.

AKS 007, 008, 011, 012; 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 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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AKS 007, 008, 011, 012; 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.

AKS 001-006, 009, 010, 013-999

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 the information signs are off.

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AKS 001-006, 009, 010, 013-999 (Continued)

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 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.

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. 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.

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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 the lights comes on brightly.
- (b) Set the switch to the DIM mode.
- 1) Make sure the light becomes dim.

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- (c) Set the switch to the OFF mode.

- 1) Make sure 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 the auxiliary lights are on.

NOTE: The auxiliary lights come 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 auxiliary lights stay on.

- (d) Leave the lavatory and close the lavatory door.

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 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 the lights behind the occupied symbol come on.

- (c) Leave the lavatory and close the lavatory door.

- 1) Make sure 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 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 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 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 33-20-00-710-054

- (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 the light in the call switch comes on.

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- 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) come(s) on.

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. To remove the pins, do this task: 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.

SUBTASK 33-20-00-860-013

- (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 ———

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WINDOW LIGHTS - MAINTENANCE PRACTICES

1. General

- A. This procedure has these tasks:
- (1) BSI Window LED Lighting Deactivation
 - (2) BSI Window LED Lighting Activation
 - (3) Window Light - LED Light Assembly Replacement
 - (4) 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

C. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

D. Procedure

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.

SUBTASK 33-21-00-010-001

- (2) Open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 33-21-00-860-025

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



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SUBTASK 33-21-00-860-026

- (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 the BSI Window LED Lighting is in a zero energy state.

SUBTASK 33-21-00-860-027

- (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 33-21-00-211-001

- (2) 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 the window lights do not come on.

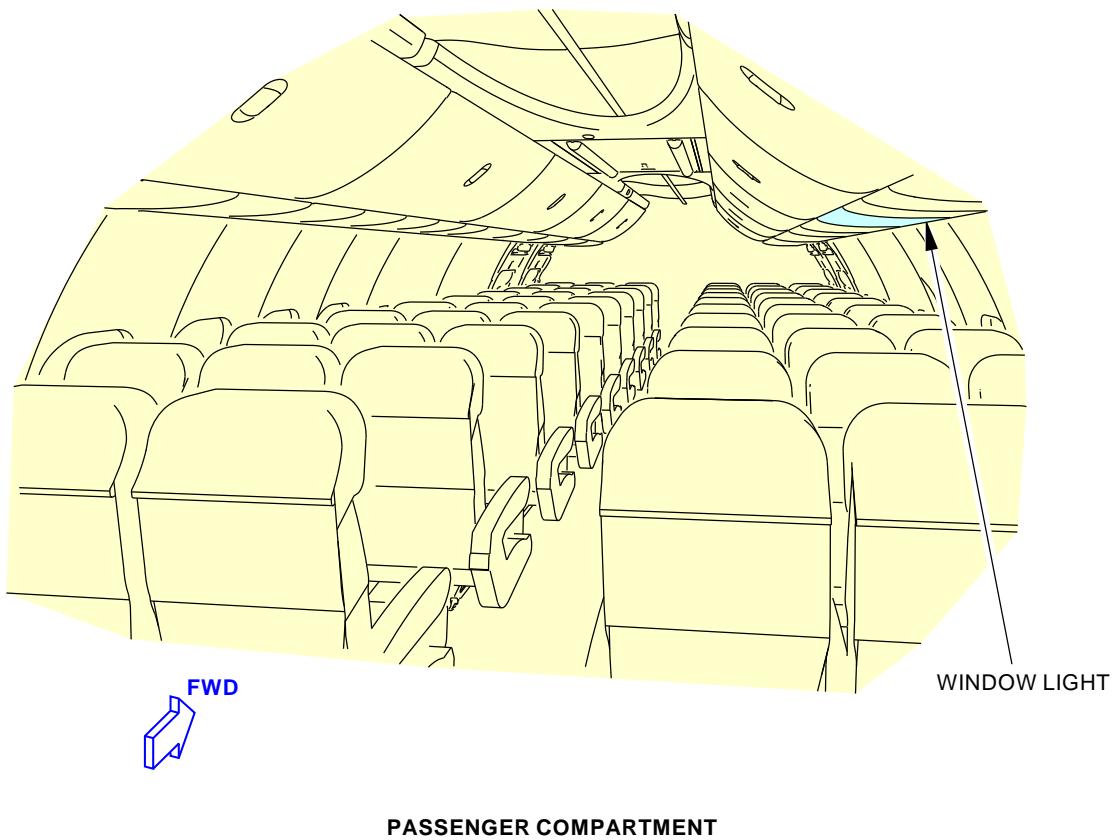
———— END OF TASK ————



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Window Lights
Figure 201/33-21-00-990-805

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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. **Procedure**

SUBTASK 33-21-00-860-028

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 33-21-00-860-029

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

Power Distribution Panel Number 2, P92

Row	Col	Number	Name
E	11	C00594	WINDOW LIGHT RIGHT
E	12	C00776	WINDOW LIGHT LEFT

SUBTASK 33-21-00-410-001

- (3) Close this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

———— END OF TASK ————

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TASK 33-21-00-960-804

4. Window Light - LED 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)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Procedure

SUBTASK 33-21-00-860-011

- (1) 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 33-21-00-860-012

- (2) Do these steps at the applicable attendant control panel:
 - (a) Make sure that the attendant control panel display is activated. 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 33-21-00-860-013

- (3) 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 33-21-00-020-001

- (4) Do these steps to remove the light assembly [41]:
 - (a) Do these steps to remove the lens [44].
 - 1) Remove the screw [44] and retainer plate [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.

SUBTASK 33-21-00-420-001

- (5) Do these steps to install the light assembly [41]:
 - (a) Put the light assembly [141] 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].

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- (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 ± 2.5 in-lb (1.4 ± 0.3 N·m)

SUBTASK 33-21-00-860-014

- (6) 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 33-21-00-860-023

- (7) AIRPLANES WITH P4 SOFTWARE;

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 the Address, Scene, and Zone information are downloaded without errors.

- (8) 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

- (9) 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.

EFFECTIVITY
AKS ALL

33-21-00



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- 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 33-21-00-860-016

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

———— END OF TASK ————

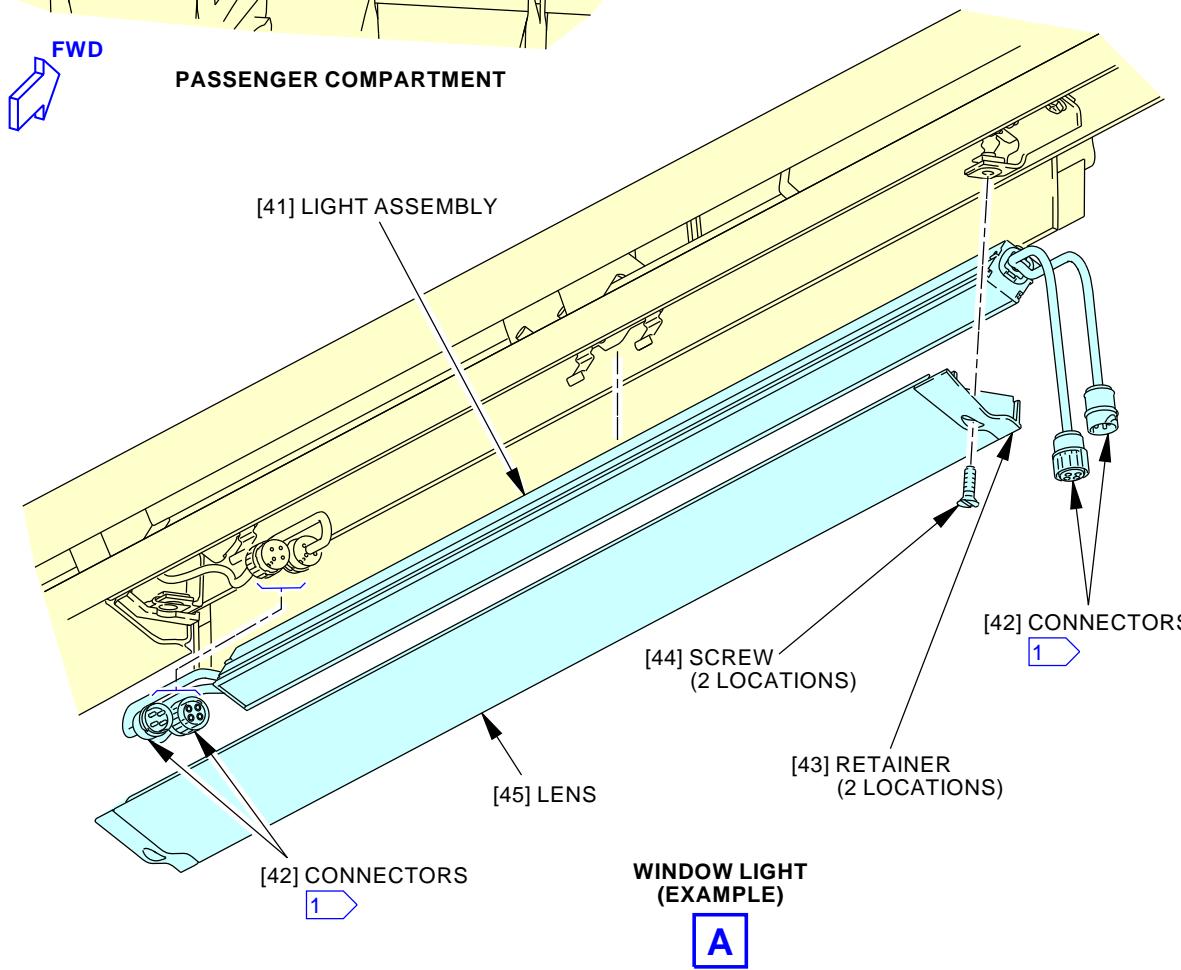
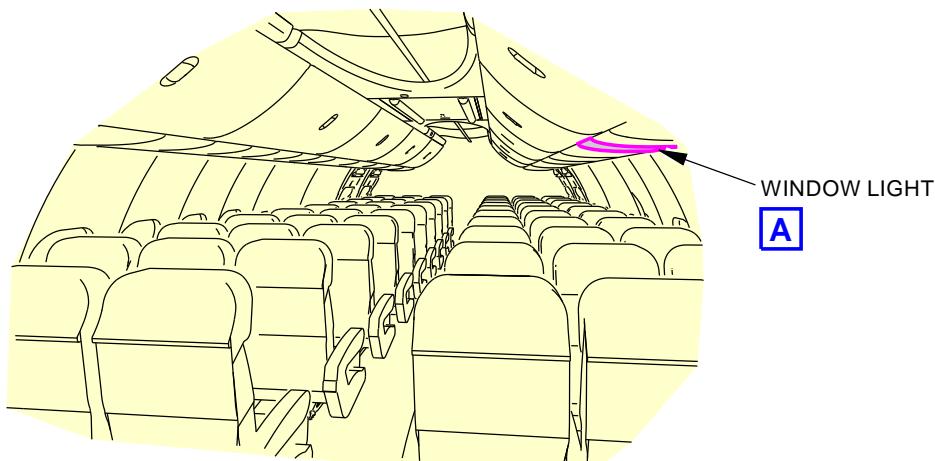
EFFECTIVITY
AKS ALL

33-21-00

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1 TOTAL NUMBER OF CONNECTORS FOR ONE LIGHT ASSEMBLY IS VARIED FROM TWO TO FOUR

1983254 S0000383711_V3

Window Light - LED Light Assembly Replacement Figure 202/33-21-00-990-803



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TASK 33-21-00-960-805

5. Window Light - Overwing Exit Light Assembly Replacement
(Figure 203)

A. References

Reference	Title
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)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Procedure

SUBTASK 33-21-00-860-017

- (1) 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 33-21-00-860-018

- (2) Do these steps at the applicable attendant control panel:
 - (a) Make sure that the attendant control panel display is activated. 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 33-21-00-860-019

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

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

Power Distribution Panel Number 2, P92

Row	Col	Number	Name
E	11	C00594	WINDOW LIGHT RIGHT
E	12	C00776	WINDOW LIGHT LEFT

SUBTASK 33-21-00-020-002

- (4) Do these steps to remove the light assembly [61]:
 - (a) Remove the fasteners [63].
 - (b) Remove the lens [64].
 - (c) Remove the fasteners [65].

EFFECTIVITY
AKS ALL

33-21-00



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- (d) Get access to the light assembly [61] installed on the back of the upper lining assembly. To get access, do this task: Emergency Exit Doorway Lining Removal, 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) Remove the fasteners [62].
- (f) Disconnect the electrical connectors [66].
- (g) Remove the light assembly [61].

SUBTASK 33-21-00-420-002

- (5) Do these steps to install the light assembly [61]:
- (a) Put the light assembly [61] in position.
- (b) Install the fasteners [62].
- 1) Tighten the fasteners [62].
- (c) Connect the electrical connectors [66].
- (d) Do this task: Emergency Exit Doorway Lining Installation, TASK 25-21-20-400-801.
- (e) Install the fasteners [65].
- 1) Tighten the fastener [65].
- (f) Put the lens [64] in position.
- (g) Install the fastener [63].
- 1) Tighten the fasteners [64].

SUBTASK 33-21-00-860-020

- (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>
A	10	C01357	PASS CABIN LIGHTING EMER CHGR L AFT
B	10	C01358	PASS CABIN LIGHTING EMER CHGR R AFT

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 33-21-00-860-021

- (7) 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 33-21-00-710-005

- (8) 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.

EFFECTIVITY
AKS ALL

33-21-00



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- 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 33-21-00-860-022

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

———— END OF TASK ————

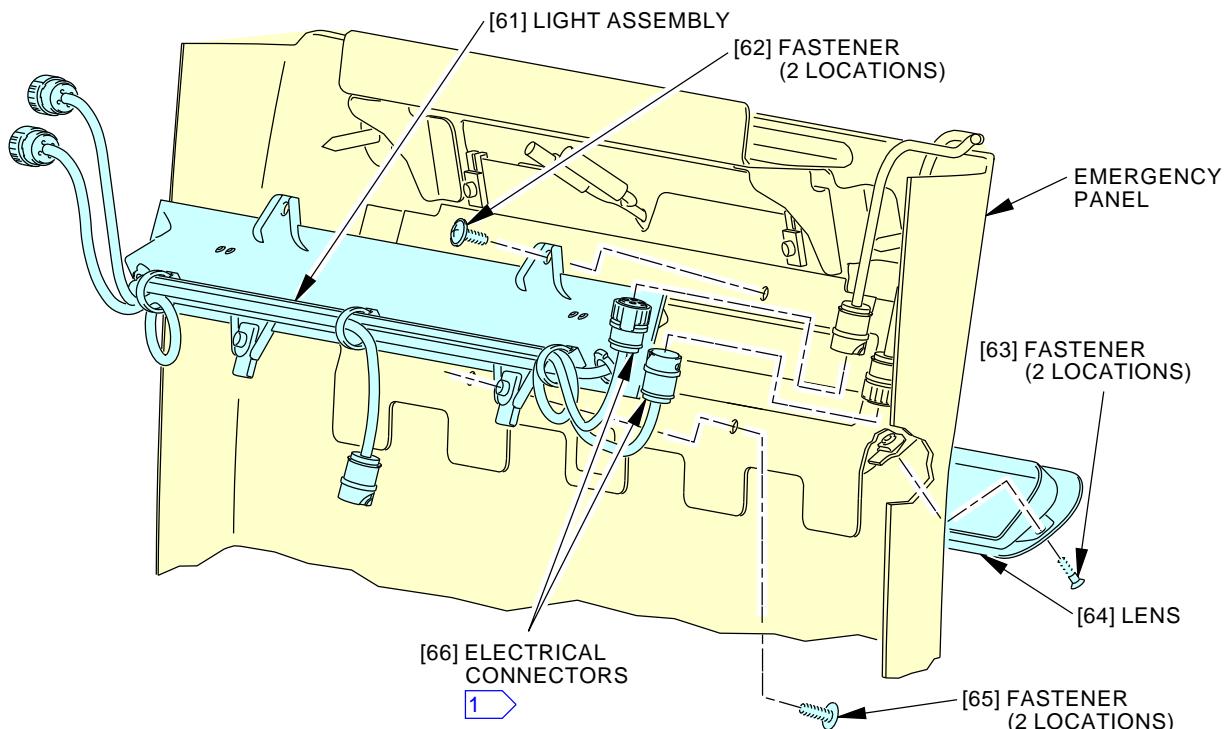
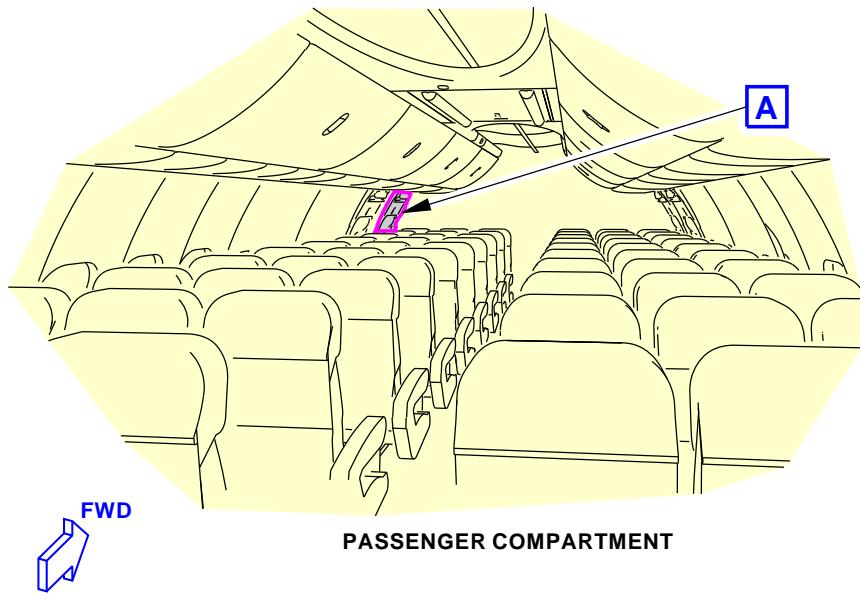
EFFECTIVITY
AKS ALL

33-21-00

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1 TOTAL NUMBER OF CONNECTORS FOR ONE LIGHT ASSEMBLY IS VARIED FROM FOUR TO FIVE

A

1984429 S0000390334_V2

Window Light - Overwing Exit Light Assembly Replacement Figure 203/33-21-00-990-804

EFFECTIVITY
AKS ALL

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CEILING LIGHTS - MAINTENANCE PRACTICES

1. General

- A. This procedure has these tasks:
- (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
 - (5) Ceiling Light, Bin/Wash - LED Light Assembly Replacement
 - (6) Ceiling Light, Direct - LED Light Assembly Replacement
 - (7) Ceiling Light, Cove - LED Light Assembly Replacement
 - (8) Ceiling Light, Center Overhead Stowage - LED Light Assembly Replacement

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
118	Electrical and Electronics Compartment - Right
200	Upper Half of Fuselage

C. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

D. Procedure

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) Open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

EFFECTIVITY
AKS ALL

33-22-00



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SUBTASK 33-22-00-860-052

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

- (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 the BSI Ceiling LED Lighting is in a zero energy state.

SUBTASK 33-22-00-860-055

- (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 33-22-00-211-001

- (2) Make sure the ceilings light on both sides are off.

NOTE: The ceiling lights are controlled by the Attendant Control Panel (ACP).

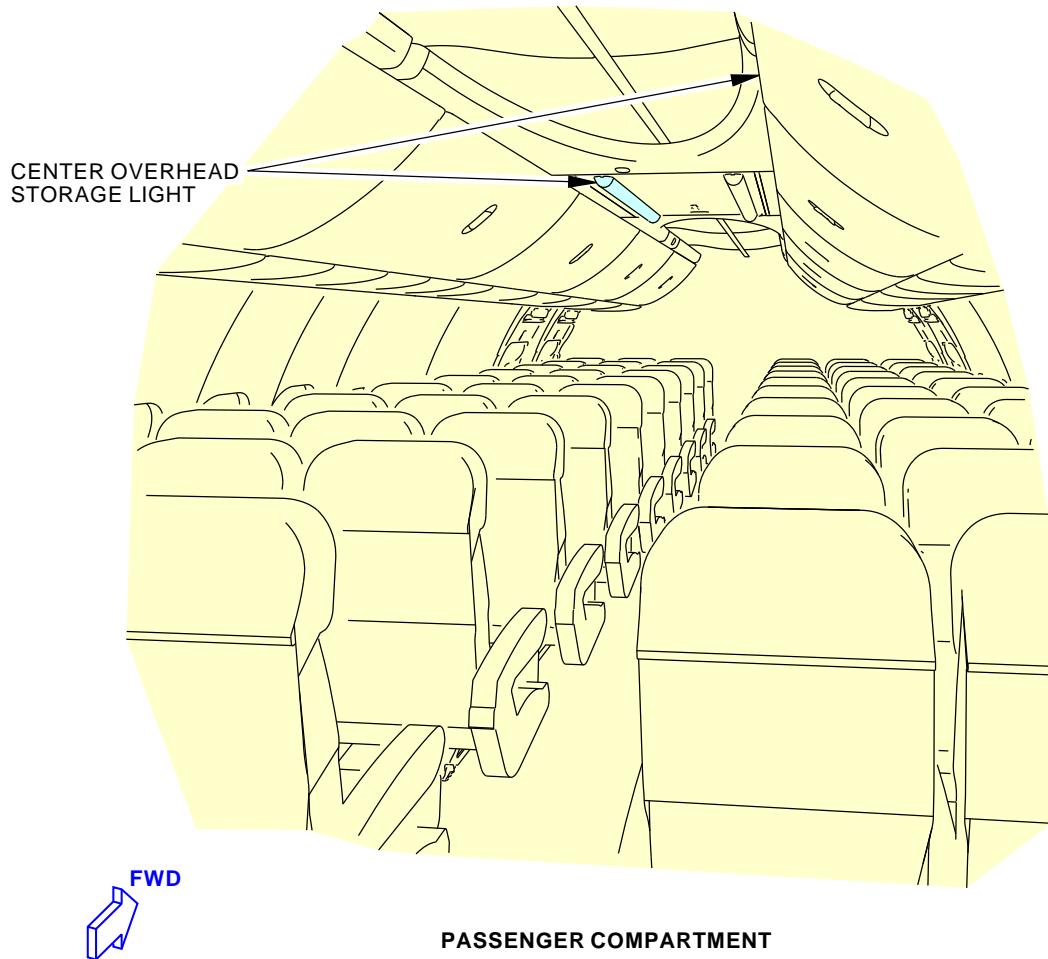
———— END OF TASK ————



33-22-00



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2361956 S0000540081_V2

Ceiling Lights
Figure 201/33-22-00-990-810

EFFECTIVITY
AKS ALL

33-22-00

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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
118	Electrical and Electronics Compartment - Right
200	Upper Half of Fuselage

C. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

D. Procedure

SUBTASK 33-22-00-860-056

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 33-22-00-860-054

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

Power Distribution Panel Number 1, P91

Row	Col	Number	Name
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

- (3) Close this access panel:

Number **Name/Location**

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

———— END OF TASK ————

EFFECTIVITY
AKS ALL

33-22-00



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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

Zone	Area
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

Number	Name/Location
117A	Electronic Equipment Access Door

D. Procedure

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) Open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 33-22-00-860-058

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

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

Power Distribution Panel Number 2, P92

Row	Col	Number	Name
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.

EFFECTIVITY
AKS ALL

33-22-00



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SUBTASK 33-22-00-860-060

- (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 33-22-00-211-003

- (2) 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).

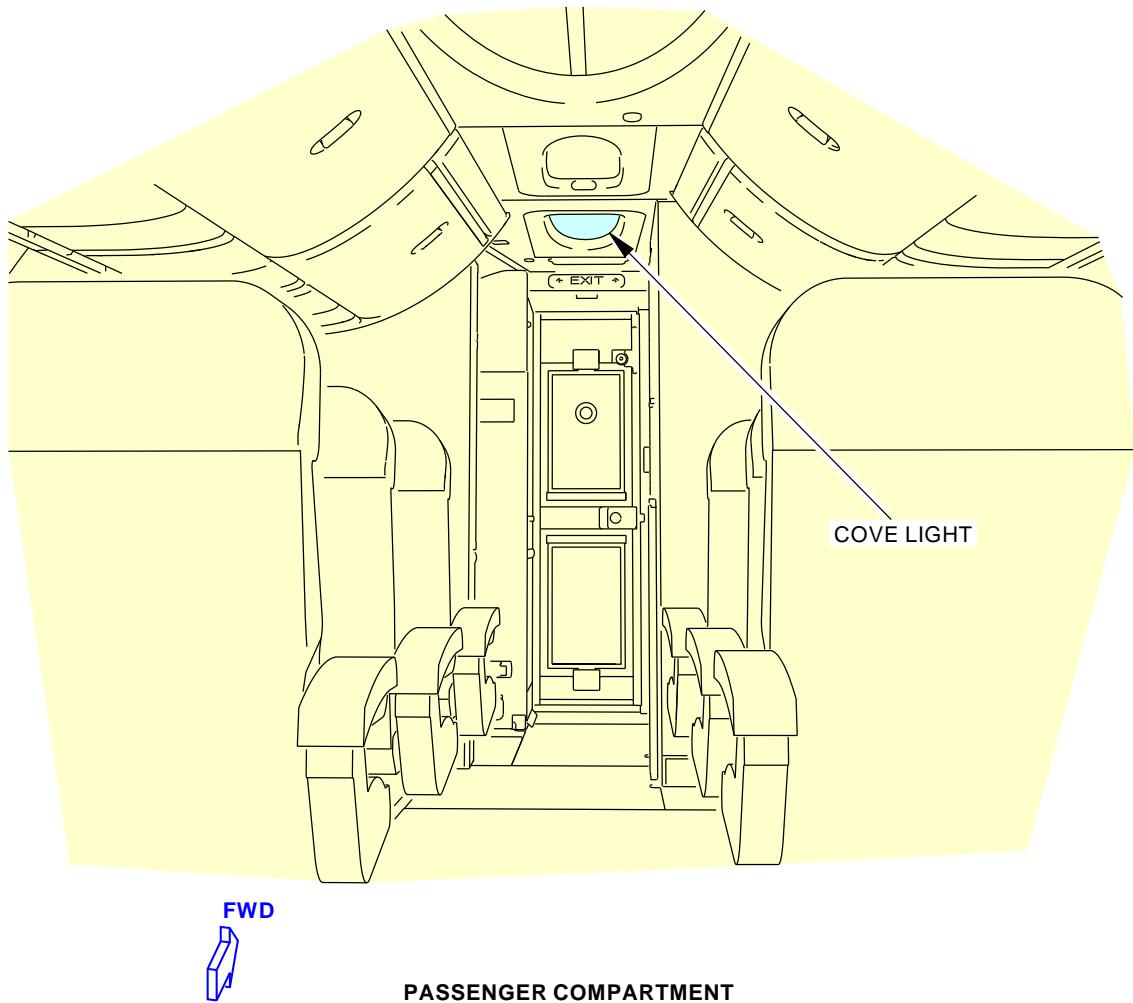
———— END OF TASK ————

EFFECTIVITY
AKS ALL

33-22-00



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2361945 S0000540100_V2

Entry and Cove Lights
Figure 202/33-22-00-990-811

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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

Zone	Area
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

Number	Name/Location
117A	Electronic Equipment Access Door

D. Procedure

SUBTASK 33-22-00-860-061

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 33-22-00-860-062

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

Power Distribution Panel Number 2, P92

Row	Col	Number	Name
E	5	C01939	COVE LIGHT

SUBTASK 33-22-00-410-006

- (3) Close this access panel:

Number **Name/Location**

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

———— END OF TASK ————

EFFECTIVITY
AKS ALL

33-22-00



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TASK 33-22-00-960-807

6. Ceiling Light, Bin/Wash - LED 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)
25-21-45 P/B 401 Config 1	CEILING PANEL - REMOVAL/INSTALLATION

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Procedure

SUBTASK 33-22-00-860-021

- (1) 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 33-22-00-860-022

- (2) Do these steps at the applicable attendant control panel:
 - (a) Make sure that the attendant control panel display is activated. 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 33-22-00-860-023

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

Power Distribution Panel Number 1, P91

Row	Col	Number	Name
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

- (4) 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 33-22-00-020-001

- (5) Do these steps to remove the light assembly [101]:

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AKS ALL

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- (a) Remove the screws [102] to the cable covers [103].
- (b) Disconnect the power electrical connectors [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].

SUBTASK 33-22-00-420-001

- (6) 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

- (7) 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

- (8) If it is necessary, install the applicable ceiling panel (PAGEBLOCK 25-21-45/401 Config 1).

SUBTASK 33-22-00-860-024

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

Power Distribution Panel Number 1, P91

Row	Col	Number	Name
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 33-22-00-860-050

- (10) AIRPLANES WITH P4 SOFTWARE;

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 the Address, Scene, and Zone information are downloaded without errors.

- (11) AIRPLANES WITH P5 SOFTWARE;

For Phase 2 Data Load, do the steps that follow:



33-22-00



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- (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 33-22-00-710-007

- (12) 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.

SUBTASK 33-22-00-860-027

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

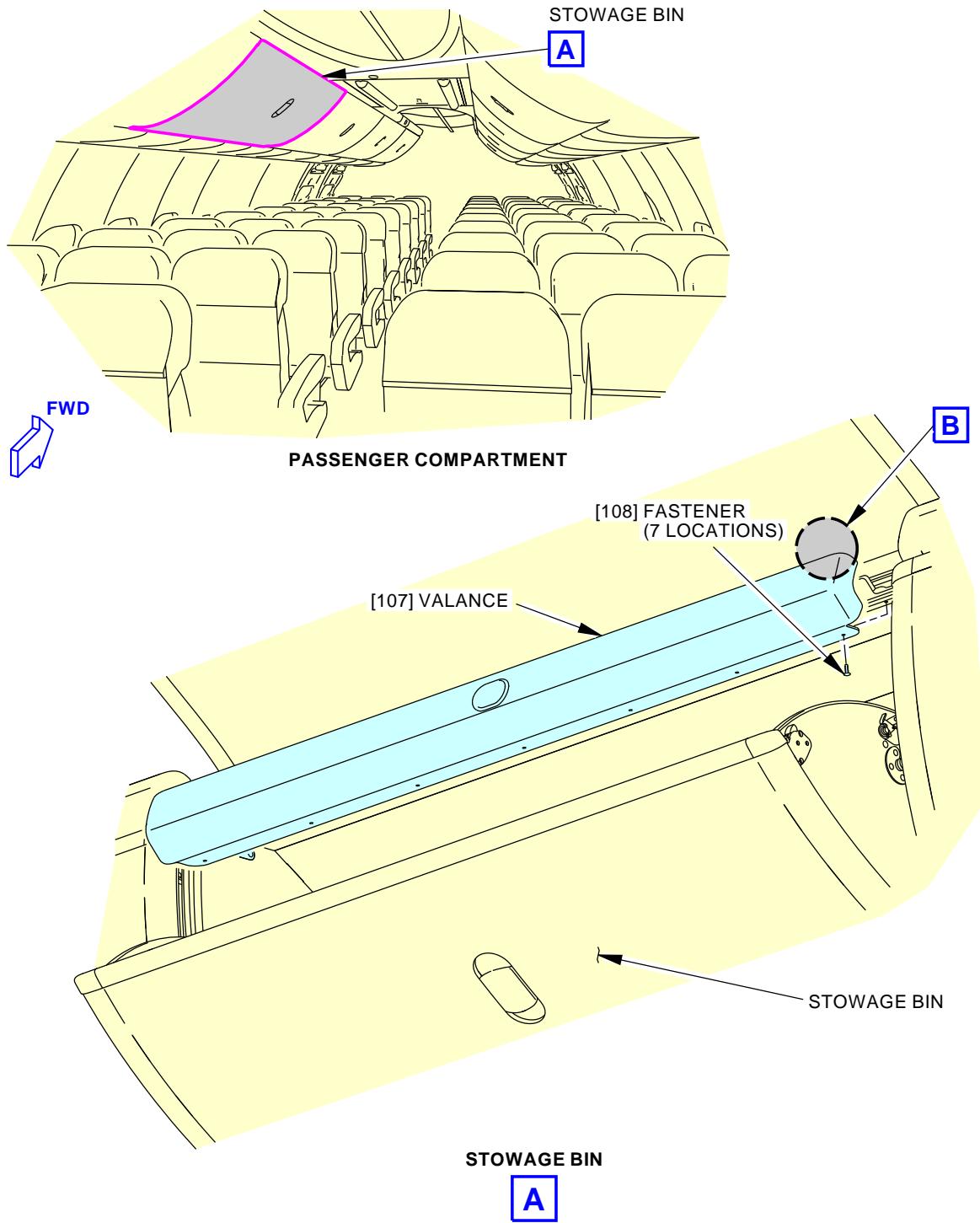
———— END OF TASK ————



33-22-00



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1984436 S0000389297_V2

Ceiling Light, Bin/Wash - LED Light Assembly Replacement
Figure 203/33-22-00-990-806 (Sheet 1 of 2)

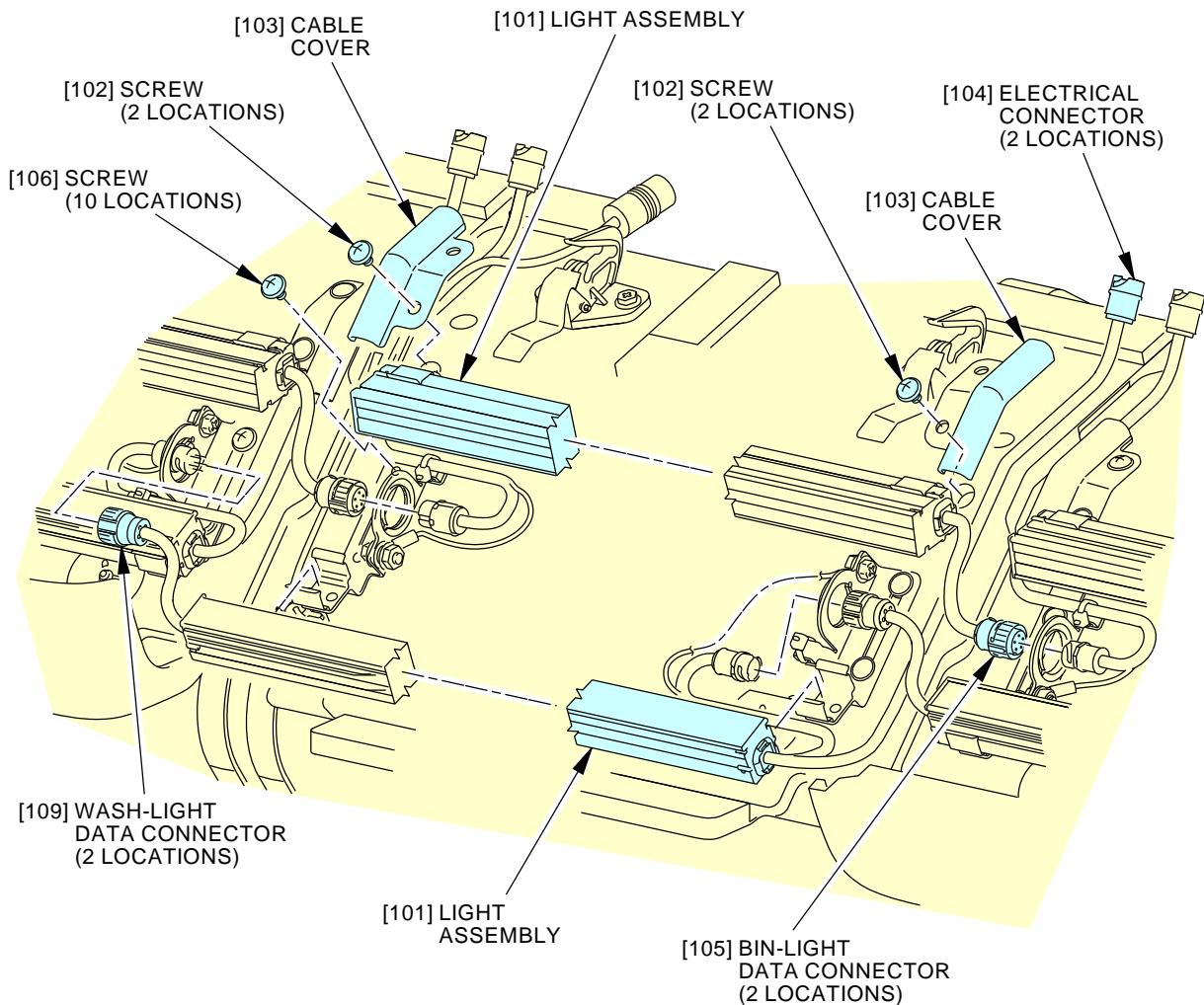
EFFECTIVITY
AKS ALL

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(EXAMPLE)

B

1984454 S0000389298_V3

Ceiling Light, Bin/Wash - LED Light Assembly Replacement
Figure 203/33-22-00-990-806 (Sheet 2 of 2)

EFFECTIVITY
AKS ALL

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TASK 33-22-00-960-808

7. Ceiling Light, Direct - LED Light Assembly Replacement

(Figure 204)

A. References

Reference	Title
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)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Procedure

SUBTASK 33-22-00-860-028

- (1) 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 33-22-00-860-049

- (2) Do these steps at the applicable attendant control panel:
 - (a) Make sure that the attendant control panel display is activated. 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 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.

SUBTASK 33-22-00-860-029

- (3) Do these steps at the applicable 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) 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 33-22-00-860-030

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

Power Distribution Panel Number 2, P92

Row	Col	Number	Name
E	5	C01939	COVE LIGHT

SUBTASK 33-22-00-010-004

- (5) Open the applicable access panel to get to the direct ceiling light assembly [121].

SUBTASK 33-22-00-020-002

- (6) Do these steps to remove the direct ceiling light assembly [121]:
 - (a) Remove the lens [123].

EFFECTIVITY
AKS ALL

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- (b) Disconnect the electrical connectors [124].
- (c) Remove the screws [122].
- (d) Remove ceiling direct light assembly [121].

SUBTASK 33-22-00-420-002

- (7) 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 lens [123] to the direct ceiling light assembly [121].
 - (f) Close the applicable access panel.

SUBTASK 33-22-00-860-031

- (8) 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 33-22-00-860-032

- (9) 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

- (10) Do a test of the light assembly.
 - (a) Make sure that the applicable 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) 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 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.
 - 2) Touch the White MEDIUM button

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.

EFFECTIVITY
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33-22-00



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- a) Make sure that the light becomes medium.
- 3) Touch the OFF button.
 - a) Make sure the light goes off.
- (g) If it is not necessary, set the CAB/UTIL switch at the P5-13 panel to the OFF position.

SUBTASK 33-22-00-860-034

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

———— END OF TASK ————

EFFECTIVITY
AKS ALL

33-22-00

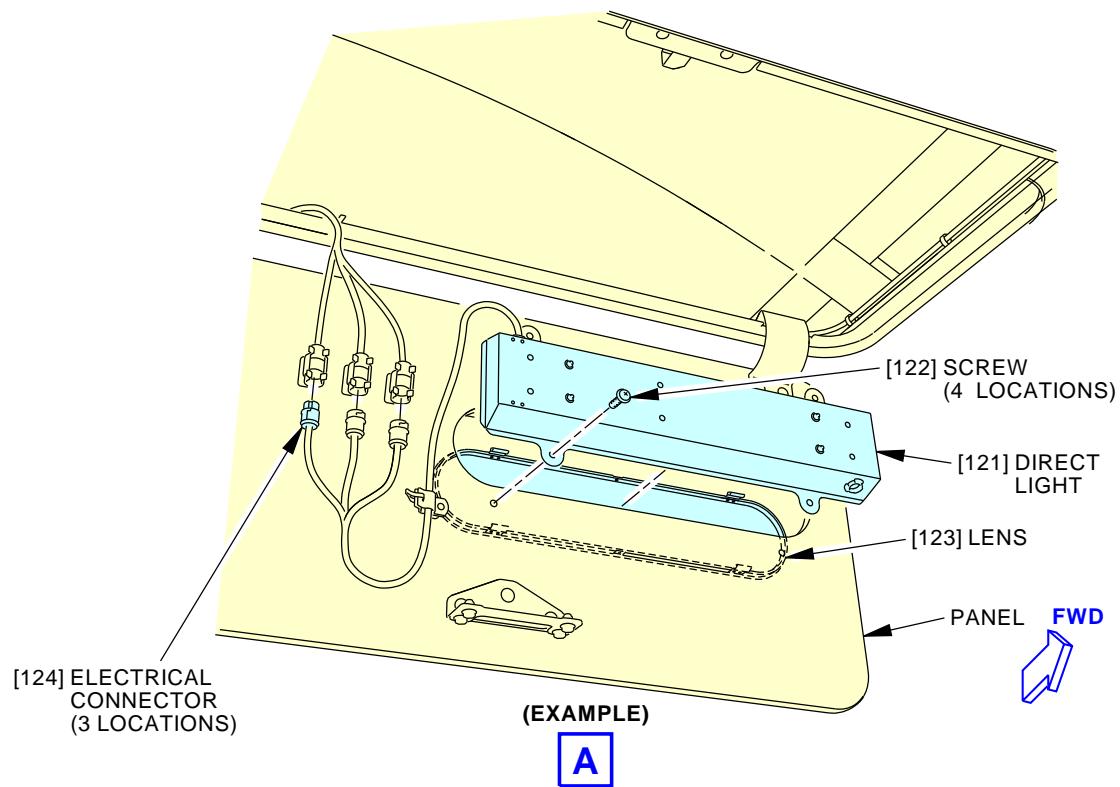
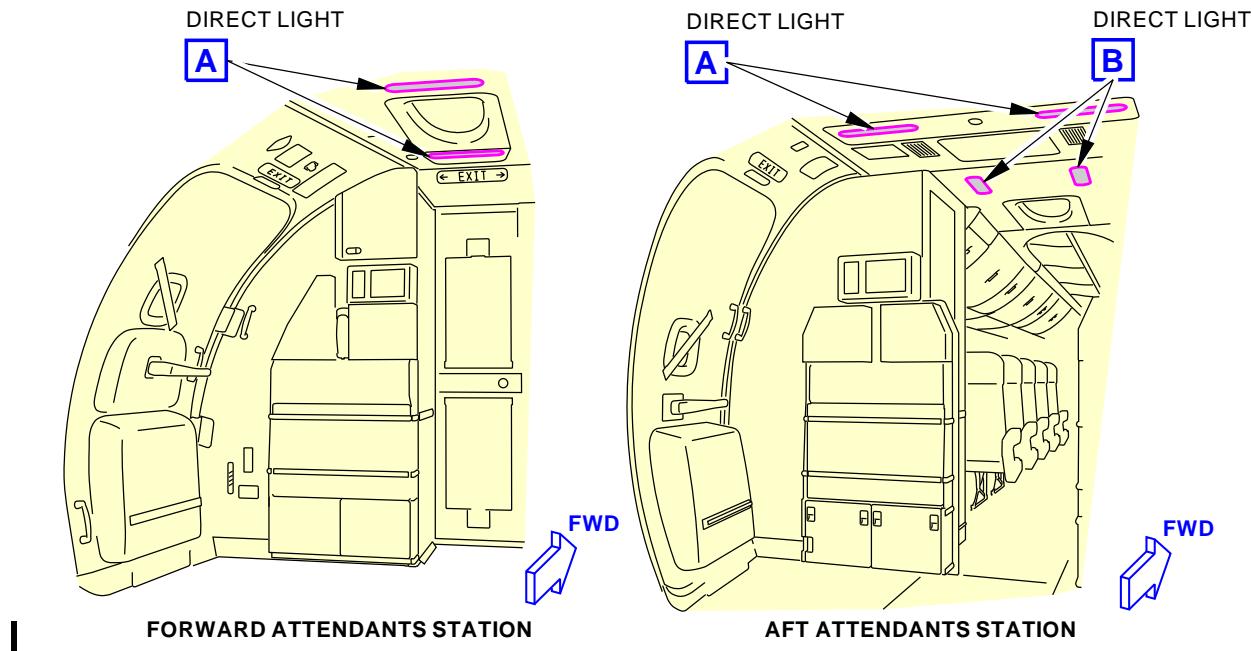
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1984396 S0000389127_V3

Ceiling Light, Direct - LED Light Assembly Replacement
Figure 204/33-22-00-990-807 (Sheet 1 of 2)

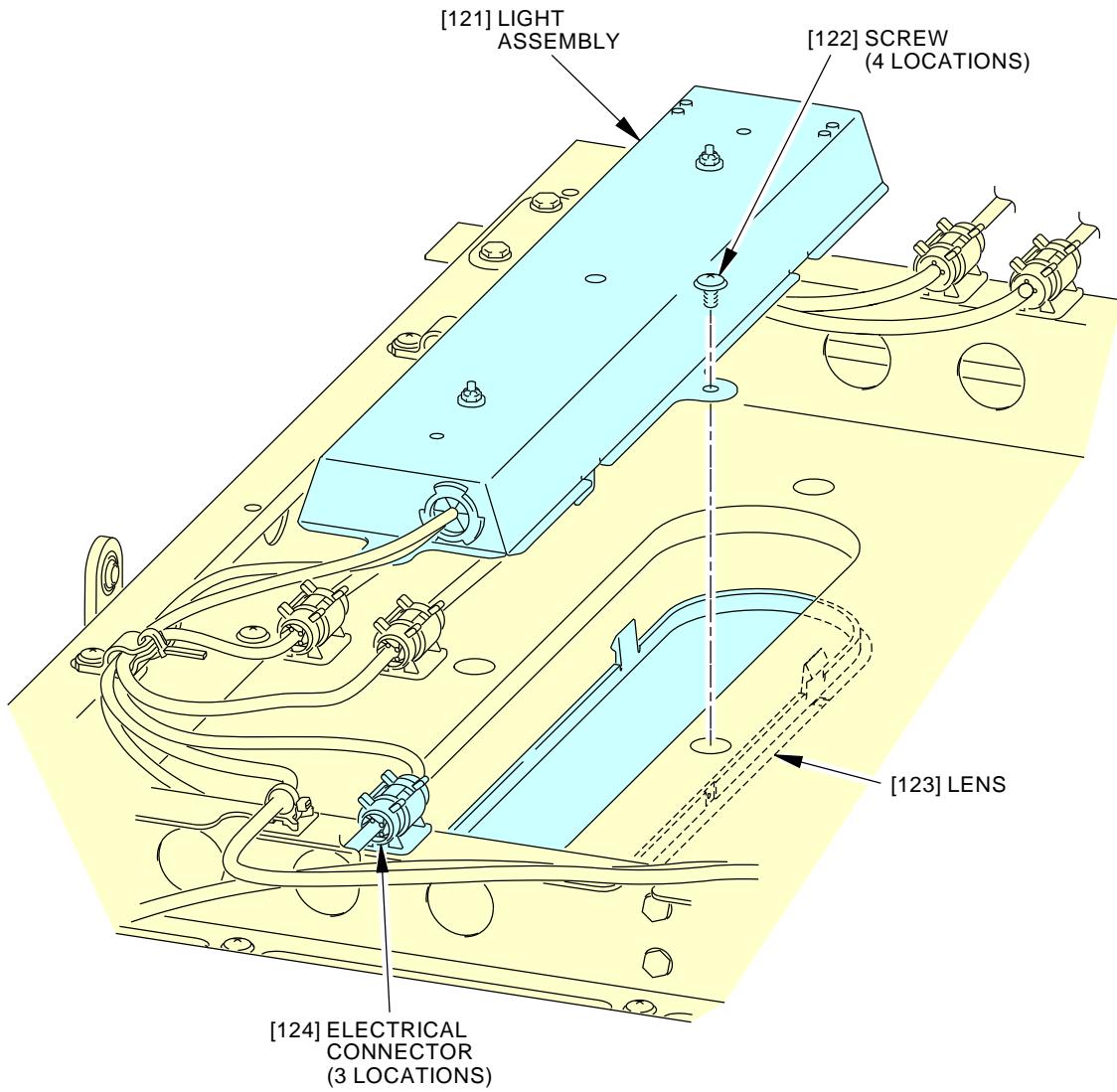
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DIRECT LIGHT ASSEMBLY
(EXAMPLE)

B

1983207 S0000383137_V2

Ceiling Light, Direct - LED Light Assembly Replacement
Figure 204/33-22-00-990-807 (Sheet 2 of 2)

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TASK 33-22-00-960-809

8. Ceiling Light, Cove - LED Light Assembly Replacement

(Figure 205)

A. References

Reference	Title
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)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Procedure

SUBTASK 33-22-00-860-035

- (1) 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 33-22-00-860-036

- (2) Do these steps at the applicable attendant control panel:
 - (a) Make sure that the attendant control panel display is activated. 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 33-22-00-860-037

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

Power Distribution Panel Number 2, P92

Row	Col	Number	Name
E	5	C01939	COVE LIGHT

SUBTASK 33-22-00-010-005

- (4) Do these steps to get access to the ceiling cove light assembly [143]:
 - (a) Open the applicable access panel to get to the cove light cover [141].
 - (b) Remove the screws [142].
 - (c) Remove the cove light cover [141].

SUBTASK 33-22-00-020-003

- (5) 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.

- (a) Disconnect the electrical connectors [144].
- (b) Remove the screws [145].
- (c) Remove the ceiling cove light assembly [143].

SUBTASK 33-22-00-420-003

- (6) Do these steps to install the ceiling cove light assembly [143]:

EFFECTIVITY
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- (a) Place the ceiling cove light assembly [143] in its location on the panel.
- (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

- (7) 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 33-22-00-860-039

- (8) 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

- (9) 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.

SUBTASK 33-22-00-860-041

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

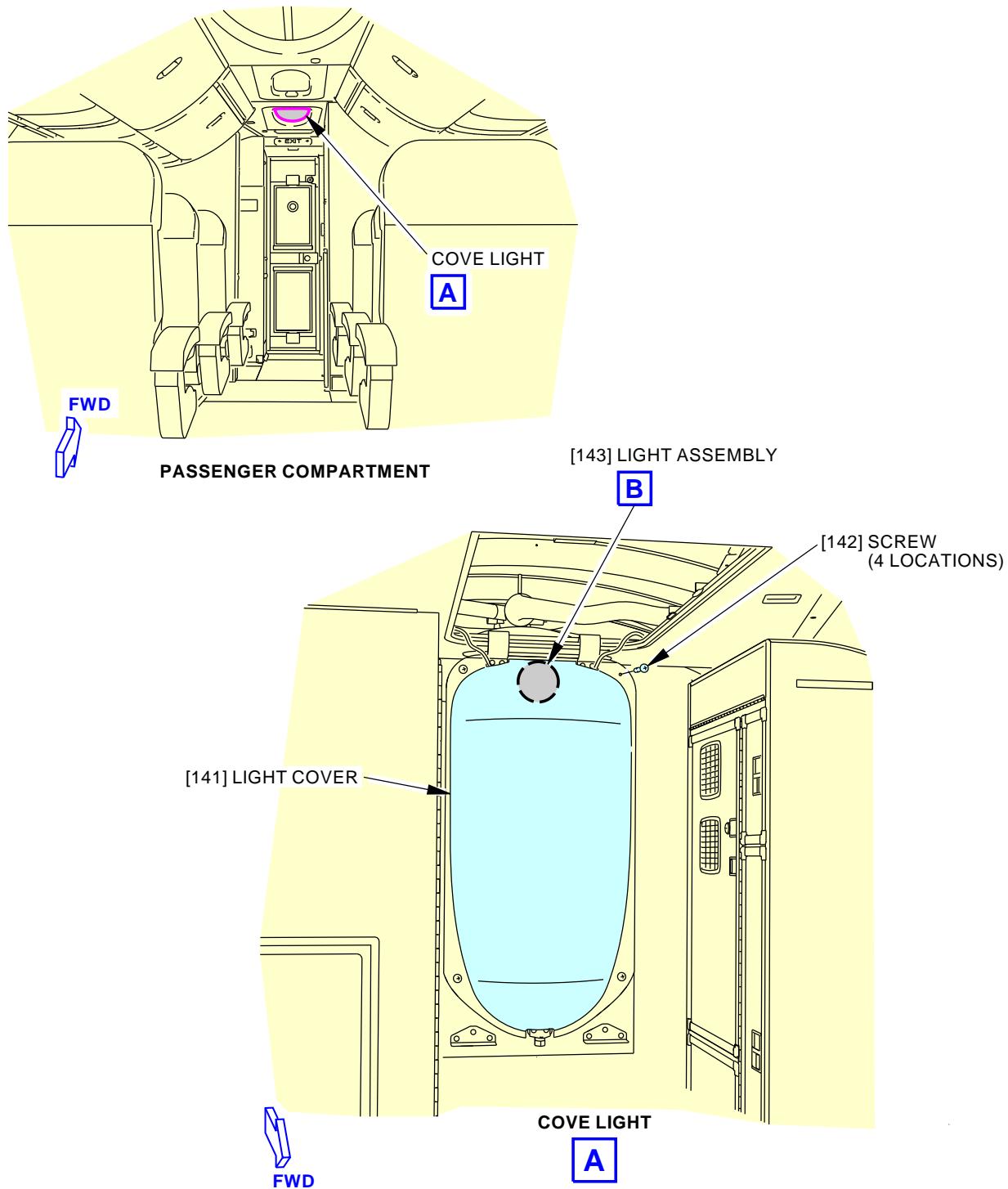
———— END OF TASK ————

EFFECTIVITY
AKS ALL

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1983189 S0000383131_V2

Ceiling Light, Cove - LED Light Assembly Replacement
Figure 205/33-22-00-990-808 (Sheet 1 of 2)

EFFECTIVITY
AKS ALL

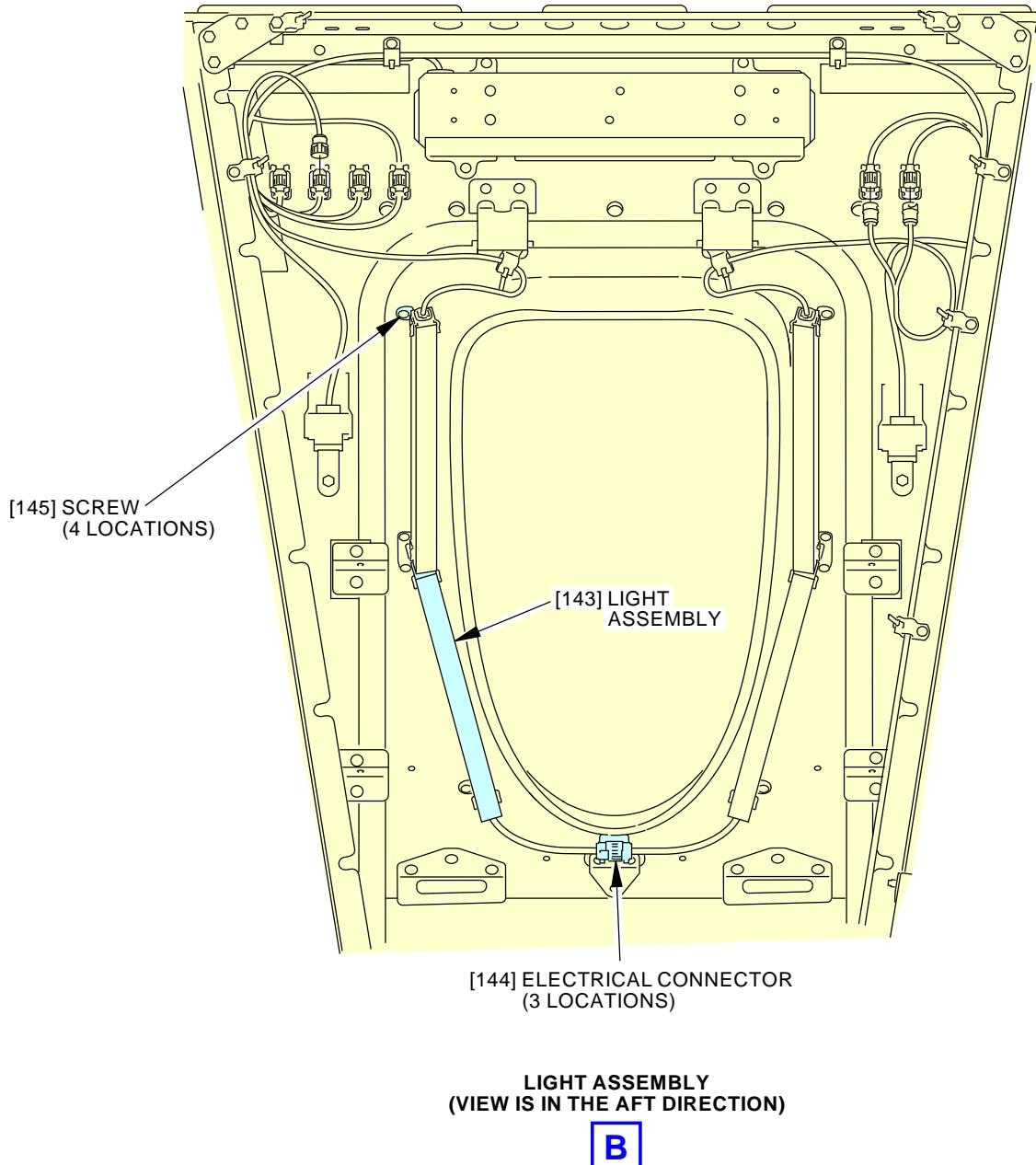
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1983193 S0000383133_V2

Ceiling Light, Cove - LED Light Assembly Replacement
Figure 205/33-22-00-990-808 (Sheet 2 of 2)

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TASK 33-22-00-960-810

9. **Ceiling Light, Center Overhead Stowage - LED Light Assembly Replacement**
(Figure 206 or Figure 207)

A. References

Reference	Title
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)

B. Tools/Equipment

Reference	Description
STD-13607	Wrench - Allen, 1/16 inch

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Procedure

SUBTASK 33-22-00-860-042

- (1) 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 33-22-00-860-043

- (2) 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 33-22-00-860-044

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

Power Distribution Panel Number 1, P91

Row	Col	Number	Name
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

AKS 001-017

SUBTASK 33-22-00-010-006

- (4) Do these steps to get access to the ceiling center overhead stowage 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 [163] out from the baseplate.
 - Slide the shroud [163] out from the baseplate.

NOTE: The shroud slides off easier with the access panel lowered.

SUBTASK 33-22-00-020-006

- (5) Do these steps to remove the ceiling center overhead stowage light assembly [161]:

EFFECTIVITY
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AKS 001-017 (Continued)

- (a) Disconnect the connectors [162].
- (b) Remove the nut [165] and washer [166].
- (c) Remove the screws [168] and retainer clips [167] at each end of the baseplate.
NOTE: Do not remove or loosen the screw at the center retainer clip. 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 33-22-00-420-006

- (6) Do these steps to install the ceiling center overhead stowage 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 6 retainer clips [167] with the screws [168].
 - (d) Tighten the screws [168].
 - (e) Install the ground wire of the ceiling center overhead stowage 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 caps [164] into the baseplate.

AKS 018-999

SUBTASK 33-22-00-010-010

- (7) Do these steps to get access to the ceiling center overhead stowage light assembly [161]:
 - (a) Open the COS box door.
 - (b) Remove the screws [169] and fasteners [170] at 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 33-22-00-020-005

- (8) Do these steps to remove the ceiling center overhead stowage light assembly [161]:
 - (a) Disconnect the connectors [162].
 - (b) Remove the screw [168] for the ground wire.
 - (c) Hold the light assembly [161] and loosen the screw [172] from the light box.
 - (d) Remove the light assembly [161]

SUBTASK 33-22-00-420-005

- (9) Do these steps to install the ceiling center overhead stowage light assembly [161]:
 - (a) Attach the light assembly [161] to the light box.
 - (b) Tighten the screw [172] to the light box.

EFFECTIVITY
AKS ALL

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AKS 018-999 (Continued)

- (c) Install the ground wire of the ceiling center overhead stowage light assembly [161] on the light box with the screw [168].
- (d) Connect the electrical connectors [162] from each end of the light assembly [161].

SUBTASK 33-22-00-410-008

- (10) Do these steps to install the COS box side panel:
 - (a) Install the lanyards [171] and side panel to the light box.
 - (b) Open the COS box door.
 - (c) Slide the side panel into the stow bin.
 - (d) Install the screws [169] and fasteners [170] at front, aft, mid and 2 uppers of the COS box side panel.
 - (e) Close the COS box door.

AKS ALL

SUBTASK 33-22-00-860-045

- (11) 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 33-22-00-860-046

- (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 33-22-00-710-010

- (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.

EFFECTIVITY
AKS ALL

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- 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 33-22-00-860-048

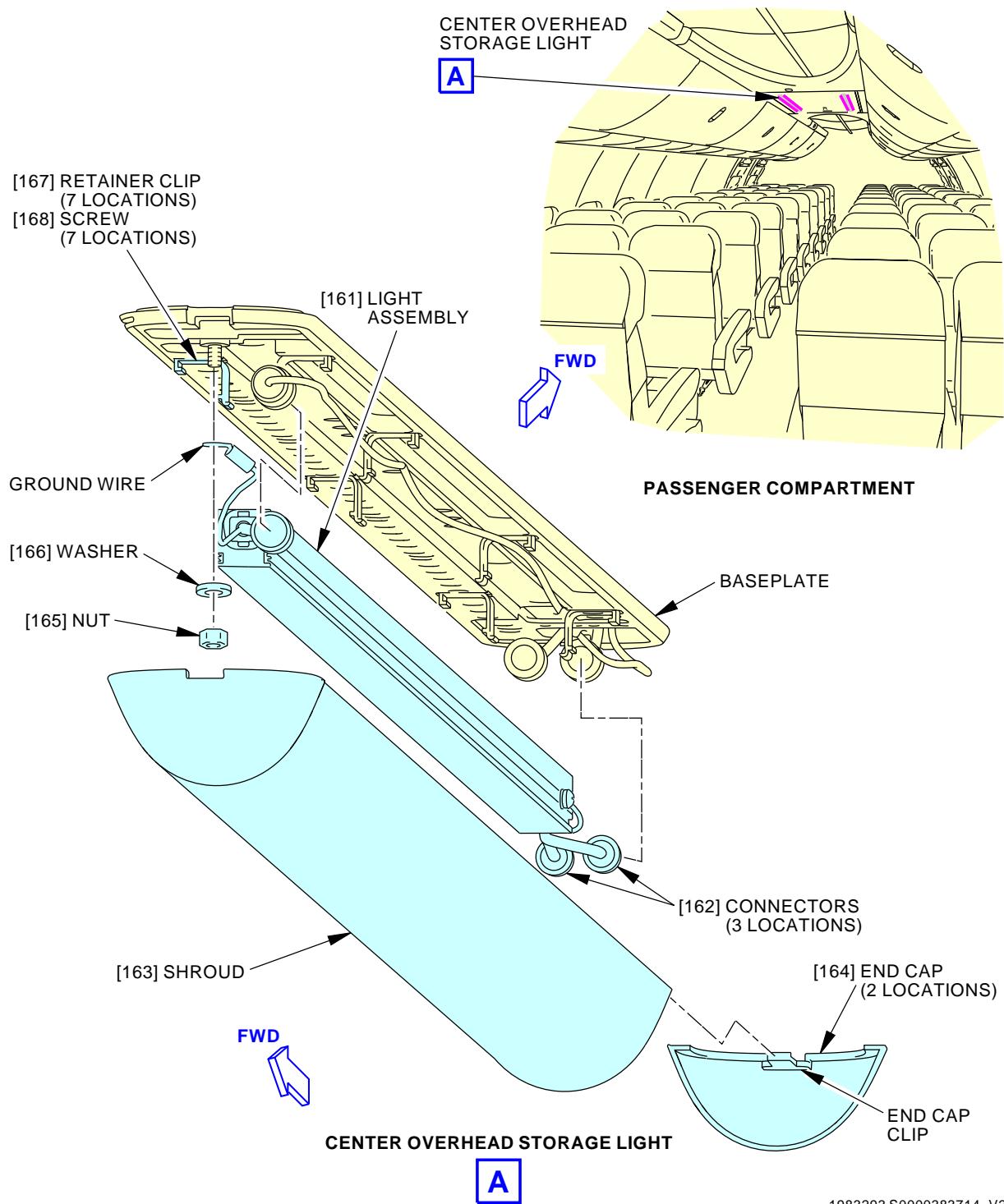
- (14) If electrical power is not necessary, then do this task: Remove Electrical Power, TASK 24-22-00-860-812.

———— END OF TASK ———

EFFECTIVITY
AKS ALL

33-22-00

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Ceiling Light, Center Overhead Stowage - LED Light Assembly Replacement
Figure 206/33-22-00-990-809

EFFECTIVITY
AKS 001-017

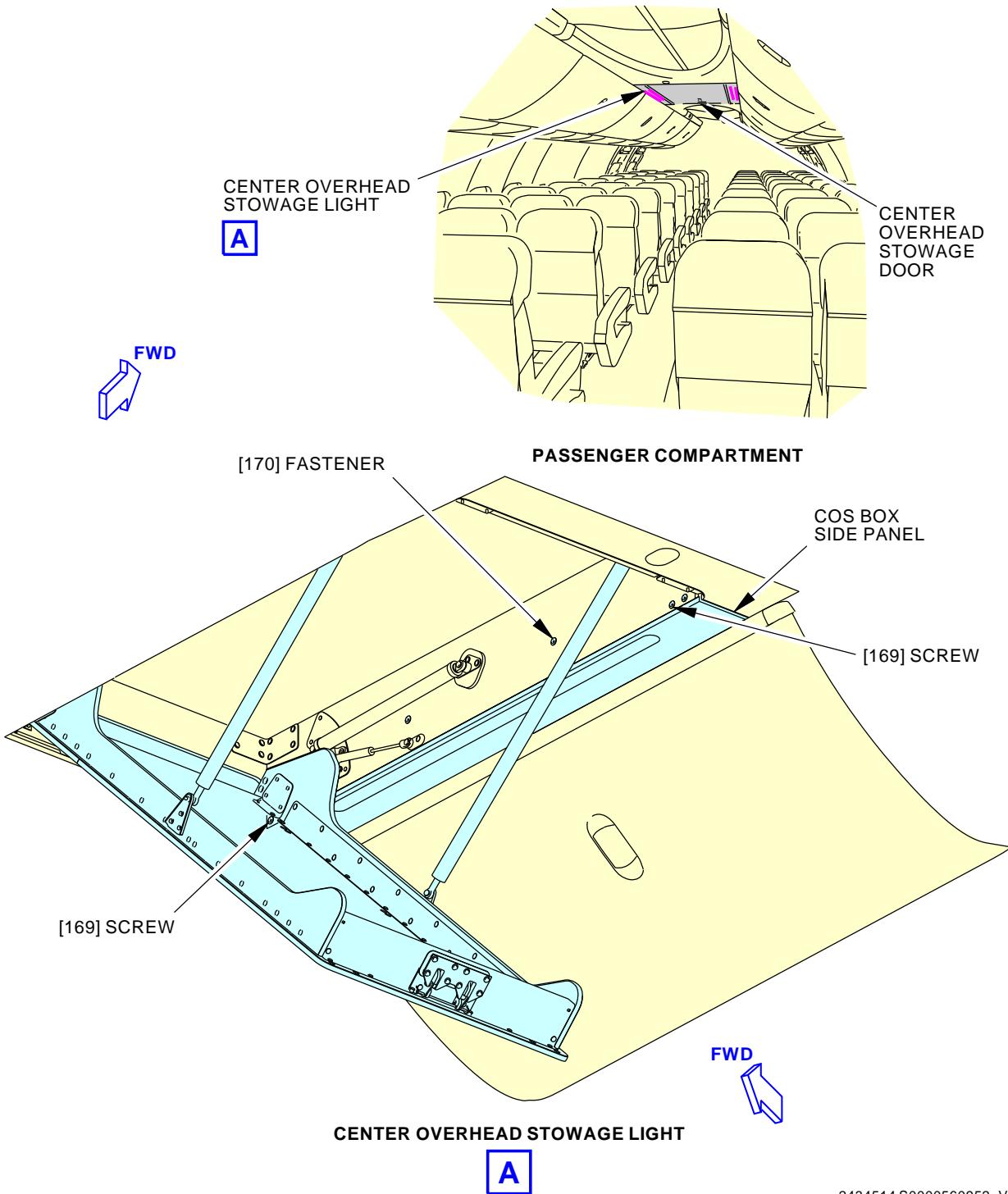
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2434514 S0000560952_V1

Ceiling Light, Center Overhead Stowage - LED Light Assembly Replacement
Figure 207/33-22-00-990-813 (Sheet 1 of 2)

EFFECTIVITY
AKS 018-999

33-22-00

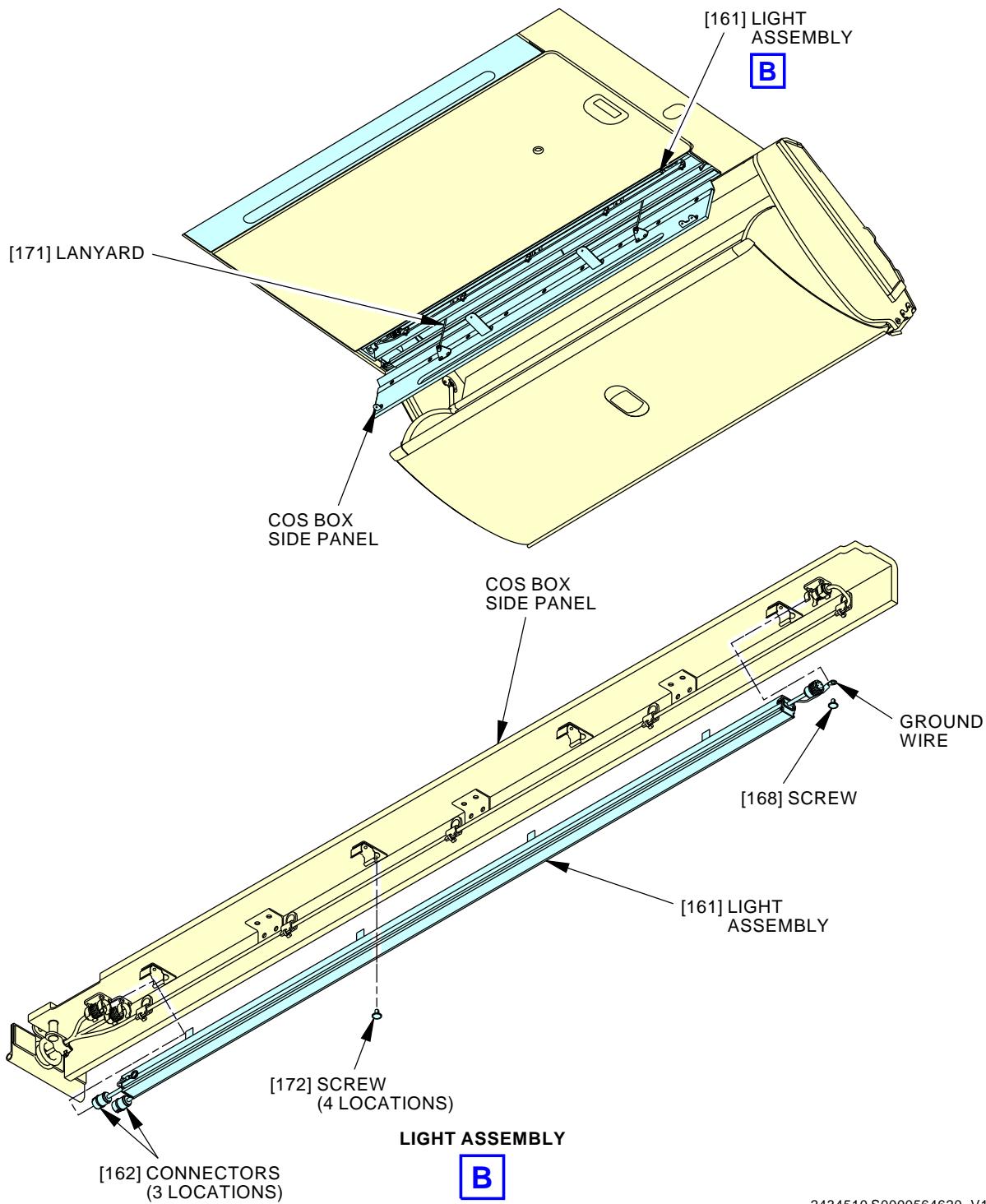
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2434510 S0000564620_V1

Ceiling Light, Center Overhead Stowage - LED Light Assembly Replacement
Figure 207/33-22-00-990-813 (Sheet 2 of 2)

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AKS 018-999

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READING LIGHTS - MAINTENANCE PRACTICES

1. General

- A. This procedure has these tasks:
- (1) Reading Lights Deactivation.
 - (2) Reading Lights Activation.
 - (3) Reading Light - Light Assembly Replacement.
 - (4) Reading Light - Adjustment.

TASK 33-23-00-040-801

2. Reading Lights - Deactivation

(Figure 201)

A. General

- (1) This procedure removes 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. Procedure

SUBTASK 33-23-00-010-005

- (1) Open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 33-23-00-860-019

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
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
AKS ALL

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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

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 STA340-451
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-R STA768-880
B	9	C01438	PASS READING LIGHTS-R STA880-937

E. Reading Lights - Tryout

NOTE: This tryout is to make sure the Reading Lights are in a 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 the reading light does not come on.
 - (b) Set the switch to the off mode.

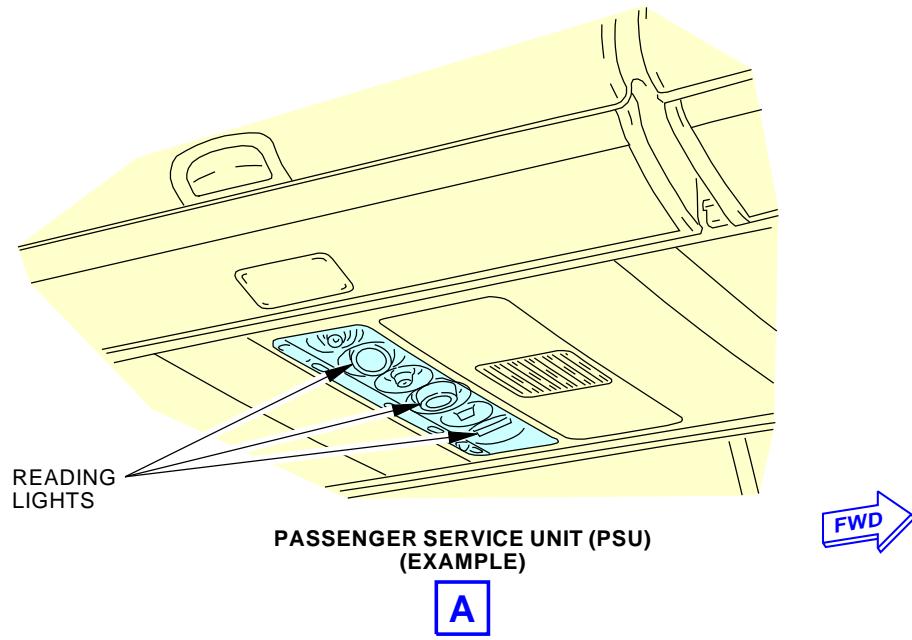
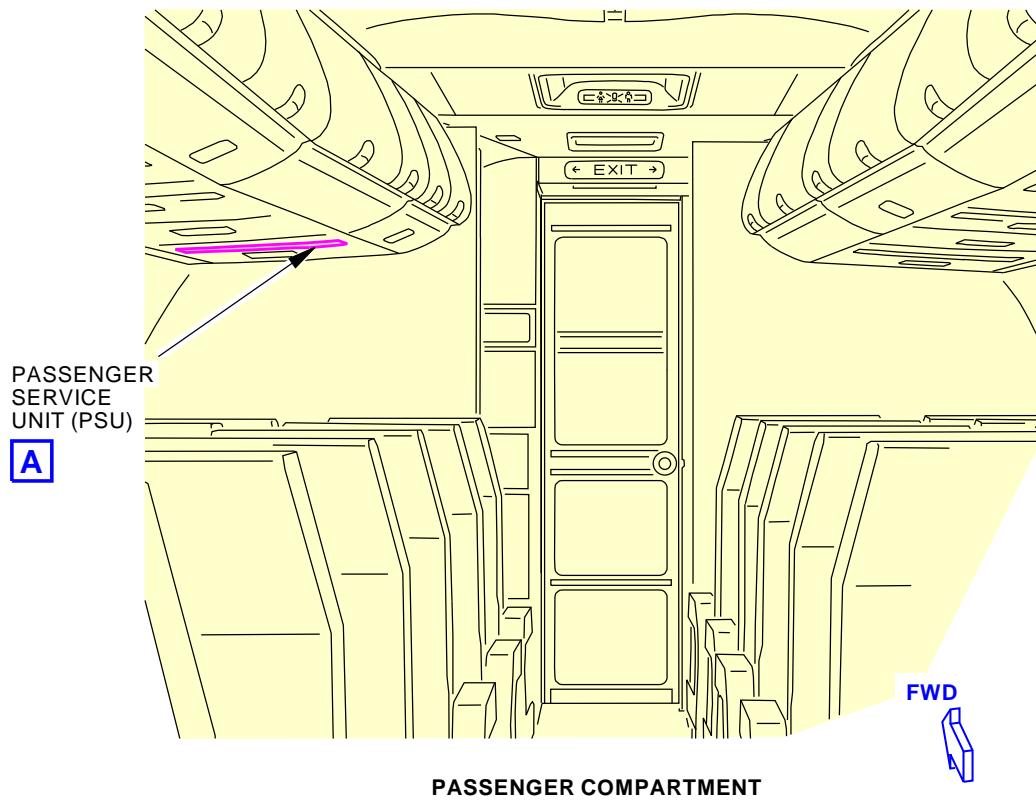
———— END OF TASK ————



33-23-00



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2383095 S0000546120_V1

Reading Lights
Figure 201/33-23-00-990-806

EFFECTIVITY
AKS ALL

33-23-00

D633A101-AKS

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TASK 33-23-00-440-801

3. Reading Lights - Activation

(Figure 201)

A. General

- (1) This procedure adds 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. Procedure

SUBTASK 33-23-00-860-020

WARNING: DO NOT TOUCH THE CONDUCTORS IN THE P91 AND P92 PANELS. BE CAREFUL WHEN YOU GET ACCESS TO THE CIRCUIT BREAKERS ON THE INNER SIDE OF THE P91 AND P92 PANELS (ROW F). IF IT IS POSSIBLE, REMOVE AIRPLANE ELECTRICAL POWER FIRST. THE P91 AND P92 PANELS HAVE HIGH VOLTAGES AND CURRENTS. ELECTRICAL VOLTAGE AND CURRENT CAN KILL YOU OR CAUSE INJURIES.

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

Power Distribution Panel Number 1, P91

Row	Col	Number	Name
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

Row	Col	Number	Name
B	1	C00094	PASS READING LIGHTS-RIGHT STA340-451
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-R STA768-880
B	9	C01438	PASS READING LIGHTS-R STA880-937



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SUBTASK 33-23-00-410-004

- (2) Close this access panel:

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

————— END OF TASK ————

TASK 33-23-00-960-802

4. Reading Light - Light Assembly 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)
25-23-61-000-804	Passenger Service Unit - Removal (P/B 401)
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

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

C. Procedure

SUBTASK 33-23-00-860-003

- (1) Open the applicable circuit breakers and install the 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 STA768-880
B	9	C01153	PASS READING LIGHTS-L STA880-937

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 STA340-451
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

EFFECTIVITY
AKS ALL

33-23-00



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AIRCRAFT MAINTENANCE MANUAL

(Continued)

Power Distribution Panel Number 2, P92

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	6	C00099	PASS READING LIGHTS-RIGHT
B	7	C00774	PASS READING LIGHTS-RIGHT
B	8	C01437	PASS READING LIGHTS-R STA768-880
B	9	C01438	PASS READING LIGHTS-R STA880-937

(WDM 33-23-11) (WDM 33-23-12) (WDM 33-23-21) (WDM 33-23-22) (WDM 33-23-31)

SUBTASK 33-23-00-010-001

- (2) For access to the top of the light assembly, lower the passenger service unit (PSU) (Passenger Service Unit - Removal, TASK 25-23-61-000-804).

SUBTASK 33-23-00-960-002

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

- Disconnect the electrical connectors [21].
- Remove the retaining ring [22].

NOTE: 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.

- Replace the light assembly [23].
 - Put the light assembly back in the panel.
 - Make sure the notch on the light assembly aligns with the notch on the panel.
NOTE: The notches can be seen from the top side of the panel.
- Install the retaining ring [22] around the light assembly [23].
NOTE: 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.
- Connect the electrical connectors [21].

SUBTASK 33-23-00-410-001

- (4) Close the PSU (Passenger Service Unit - Installation, TASK 25-23-61-400-804).

SUBTASK 33-23-00-860-004

- (5) Make sure that electrical power is supplied to the airplane (Supply Electrical Power, TASK 24-22-00-860-811).

SUBTASK 33-23-00-860-005

- (6) 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 STA768-880
B	9	C01153	PASS READING LIGHTS-L STA880-937



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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 STA340-451
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-R STA768-880
B	9	C01438	PASS READING LIGHTS-R STA880-937

SUBTASK 33-23-00-710-002

- (7) Do a test of the new light assembly.

- (a) Set the switch for the reading light to the on mode.

- 1) Make sure the light comes on.
- 2) Make sure 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 the light goes off.

SUBTASK 33-23-00-860-006

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

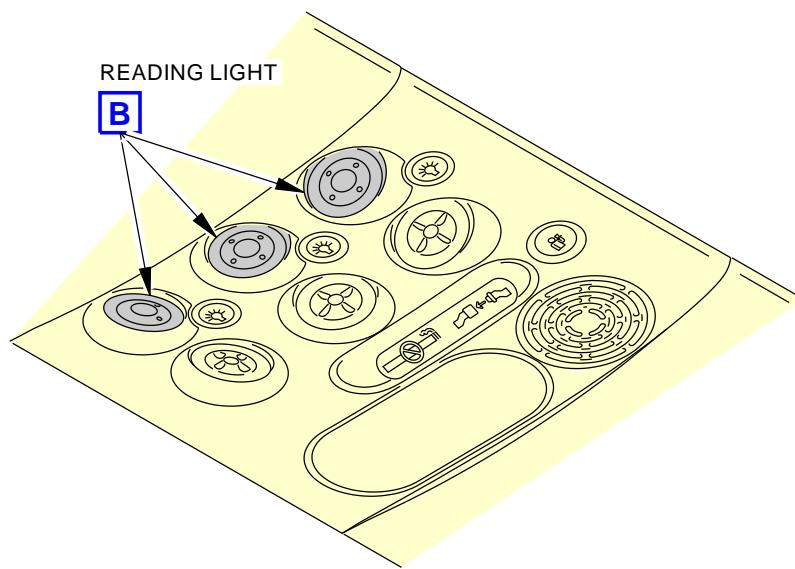
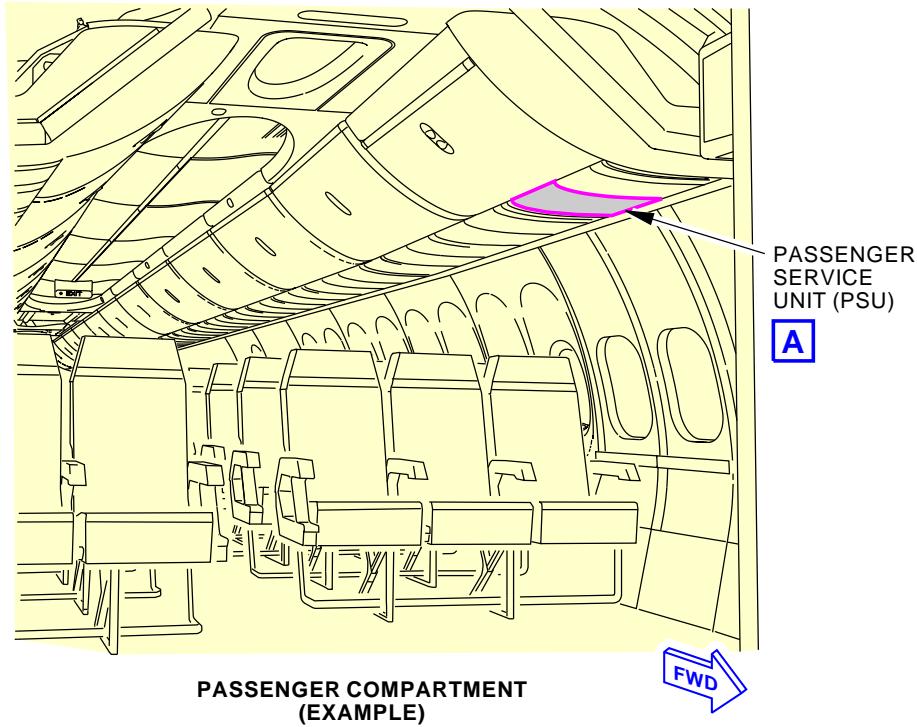
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Reading Light - Light Assembly Replacement
Figure 202/33-23-00-990-802 (Sheet 1 of 2)

EFFECTIVITY
AKS ALL

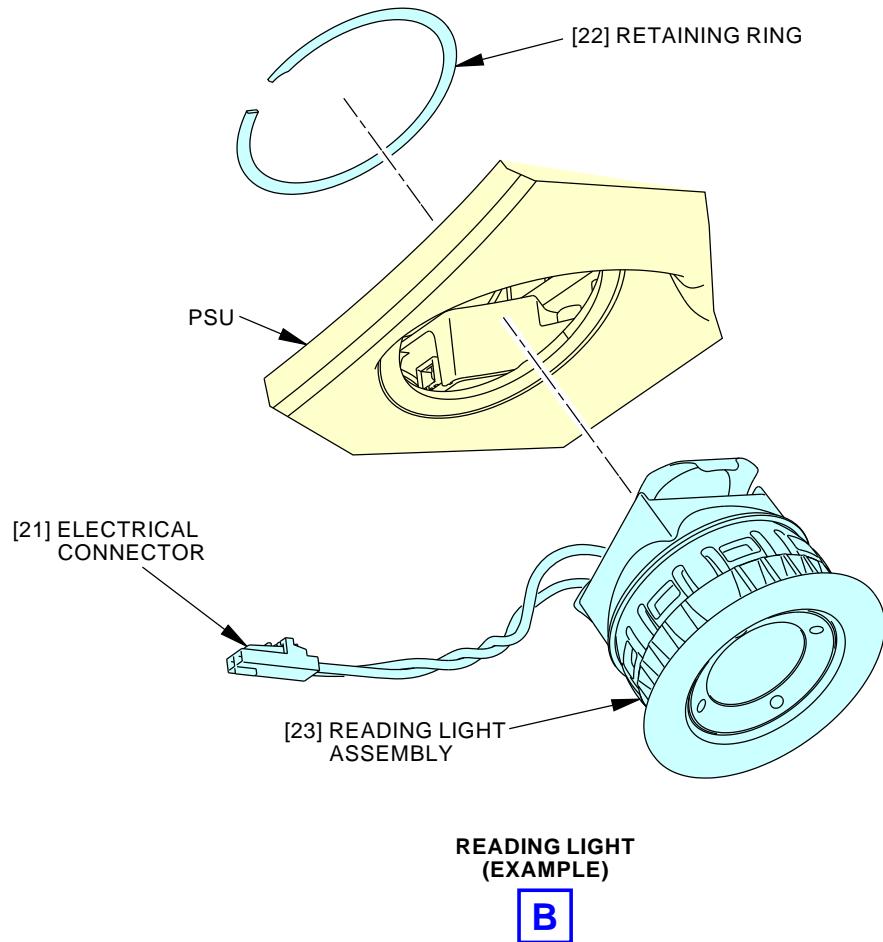
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Reading Light - Light Assembly Replacement
Figure 202/33-23-00-990-802 (Sheet 2 of 2)

EFFECTIVITY
AKS ALL

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TASK 33-23-00-820-803

5. Reading Light - Adjustment and Test

Figure 203

A. General

- (1) 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.

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)
25-23-61-000-804	Passenger Service Unit - Removal (P/B 401)
25-23-61-400-804	Passenger Service Unit - Installation (P/B 401)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Procedure

SUBTASK 33-23-00-820-006

- (1) Adjusting the reading light.

- (a) Make sure that electrical power is supplied to the airplane (Supply Electrical Power, TASK 24-22-00-860-811).
- (b) If the reading light is off, set its switch to the on position.
- (c) 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.

- (d) Remove electrical power from the light.
 - 1) Open the applicable circuit breakers and install safety tags:

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
B	8	C01152	PASS READING LIGHTS-LEFT STA768-880
B	9	C01153	PASS READING LIGHTS-L STA880-937

Power Distribution Panel Number 2, P92

Row	Col	Number	Name
B	1	C00094	PASS READING LIGHTS-RIGHT STA340-451
B	2	C00095	PASS READING LIGHTS-RIGHT



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AIRCRAFT MAINTENANCE MANUAL

(Continued)

Power Distribution Panel Number 2, P92

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
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-R STA768-880
B	9	C01438	PASS READING LIGHTS-R STA880-937

- (e) Open the passenger service unit (PSU) to get access to the rear of the reading light (Passenger Service Unit - Removal, TASK 25-23-61-000-804).
- (f) 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.
 - 3) To not permit the passengers and attendants to adjust the light beam direction, use the lever to lock the reading light in its position.
 - 4) To permit passengers and attendants to adjust the light beam direction, make sure the lever is left in the unlocked position.
- (g) Close the PSU (Passenger Service Unit - Installation, TASK 25-23-61-400-804).

SUBTASK 33-23-00-710-010

- (2) Do a test of the light beam adjustment.

- (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 STA768-880
B	9	C01153	PASS READING LIGHTS-L STA880-937

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 STA340-451
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-R STA768-880



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AIRCRAFT MAINTENANCE MANUAL

(Continued)

Power Distribution Panel Number 2, P92

Row Col Number Name

B 9 C01438 PASS READING LIGHTS-R STA880-937

- (b) Make sure 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.
(d) Remove electrical power if it is not necessary (Remove Electrical Power, TASK 24-22-00-860-812).

———— END OF TASK ————

EFFECTIVITY
AKS ALL

33-23-00

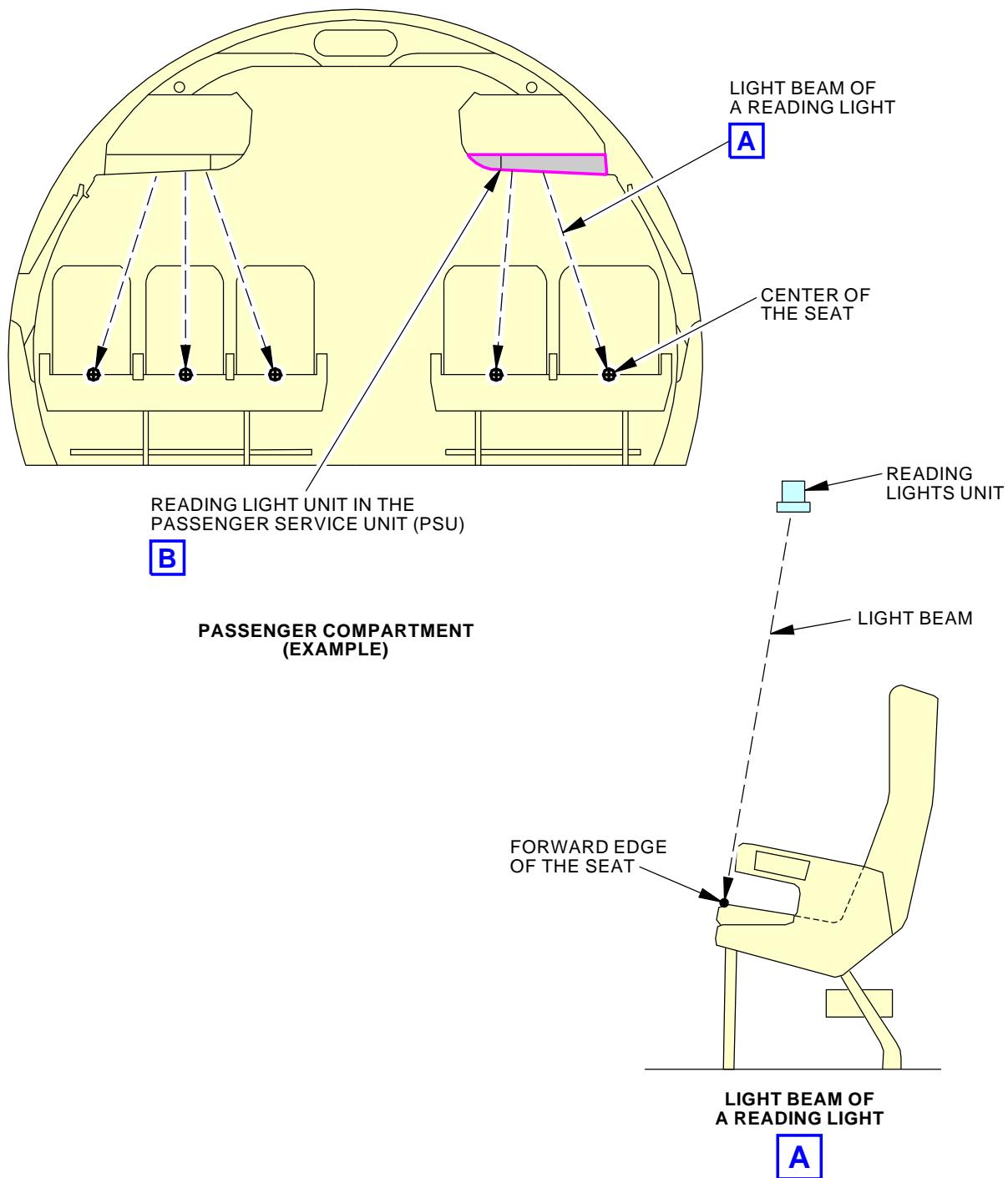
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Reading Lights - Light Beam Adjustment
Figure 203/33-23-00-990-805 (Sheet 1 of 2)

EFFECTIVITY
AKS ALL

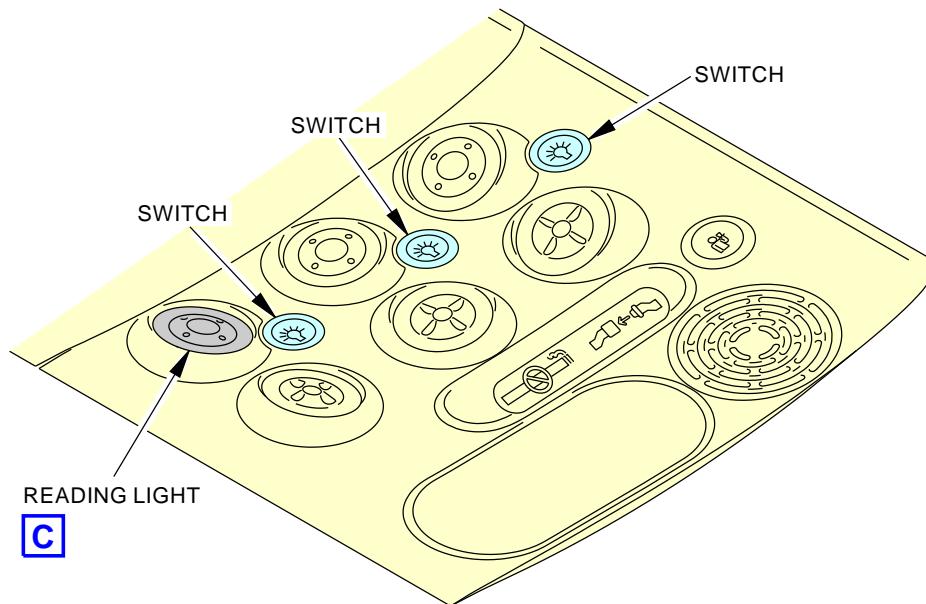
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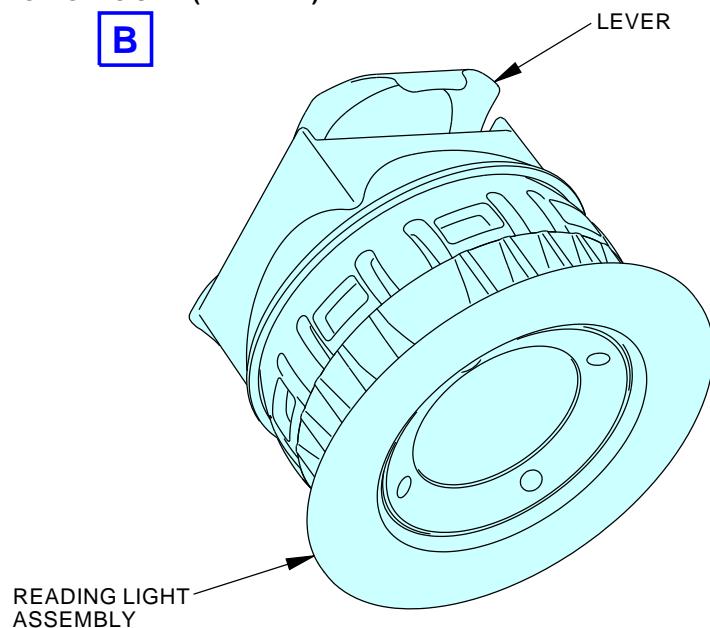
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READING LIGHTS UNIT (EXAMPLE)



READING LIGHT (EXAMPLE)



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Reading Lights - Light Beam Adjustment
Figure 203/33-23-00-990-805 (Sheet 2 of 2)

EFFECTIVITY
AKS ALL

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AIRCRAFT MAINTENANCE MANUAL

INFORMATION SIGNS - MAINTENANCE PRACTICES

1. General

- A. This procedure has these tasks:
 - (1) Information Signs Deactivation.
 - (2) Information Signs Activation.
 - (3) Information Sign - Light Assembly Replacement for a No-Smoking/Fasten-Seat-Belt Sign
 - (4) Information Sign - Light Assembly Replacement for a Return-to-Seat Sign
- 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).

AKS 001-006, 009, 010, 013-999

- 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).

AKS 007, 008, 011, 012; 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.

AKS 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

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
C	8	C01406	PASS CABIN SIGNS FASTEN SEAT BELT R
C	9	C01405	PASS CABIN SIGNS FASTEN SEAT BELT L

AKS 007, 008, 011, 012

C	10	C01408	PASS CABIN SIGNS NO SMOKING RIGHT
C	11	C01407	PASS CABIN SIGNS NO SMOKING LEFT

AKS ALL

D	11	C00442	PASSENGER CABIN SIGNS PASS SIGN CONT
---	----	--------	--------------------------------------



33-25-00



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AIRCRAFT MAINTENANCE MANUAL

These circuit breakers are inoperative and should remain open:

CAPT Electrical System Panel, P18-3

Row Col Number Name

AKS 001-006, 009, 010, 013-999

C	10	C01408	PASS CABIN SIGNS NO SMOKING R (INOP)
C	11	C01407	PASS CABIN SIGNS NO SMOKING L (INOP)

AKS ALL

D. Information Signs - Tryout

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

AKS 007, 008, 011, 012

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.

AKS ALL

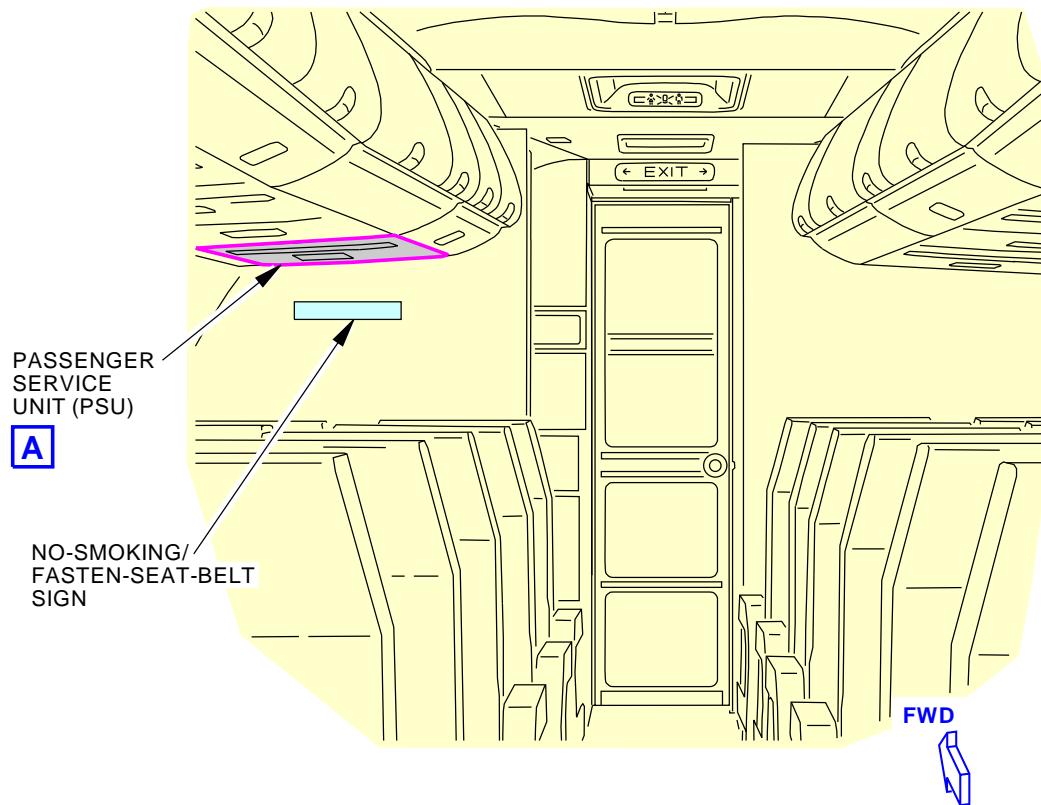
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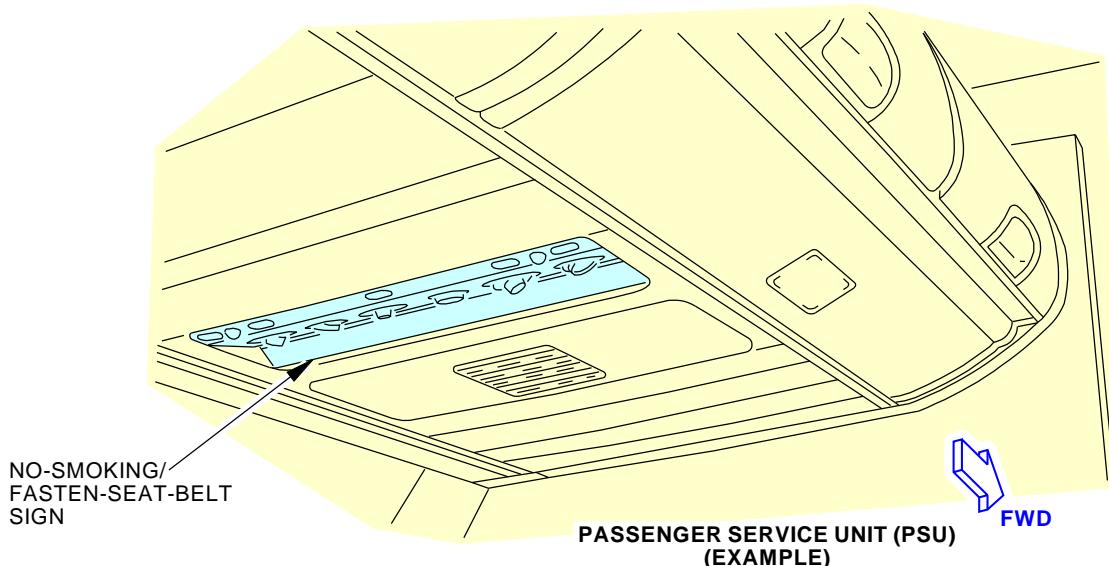
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PASSENGER COMPARTMENT



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
AKS ALL

33-25-00

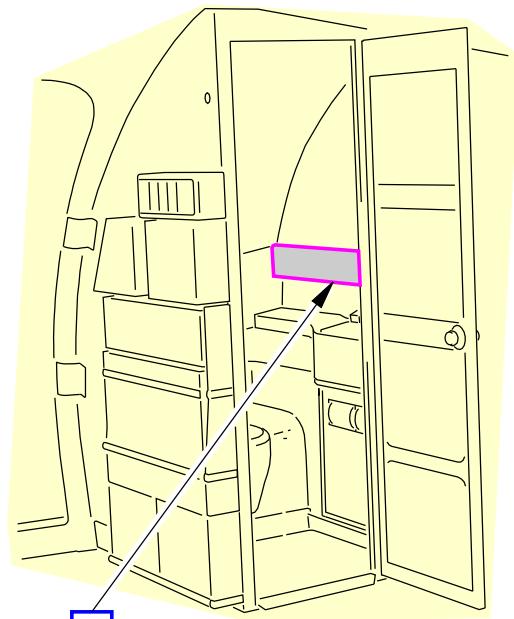
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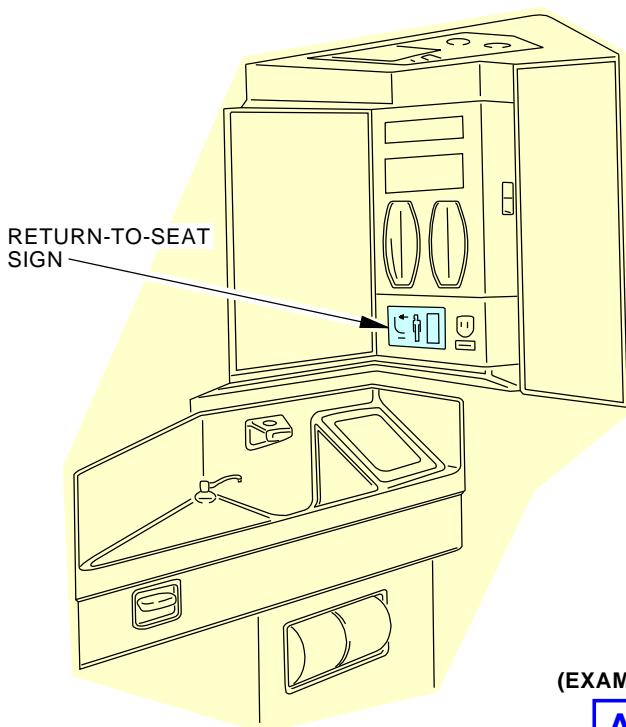
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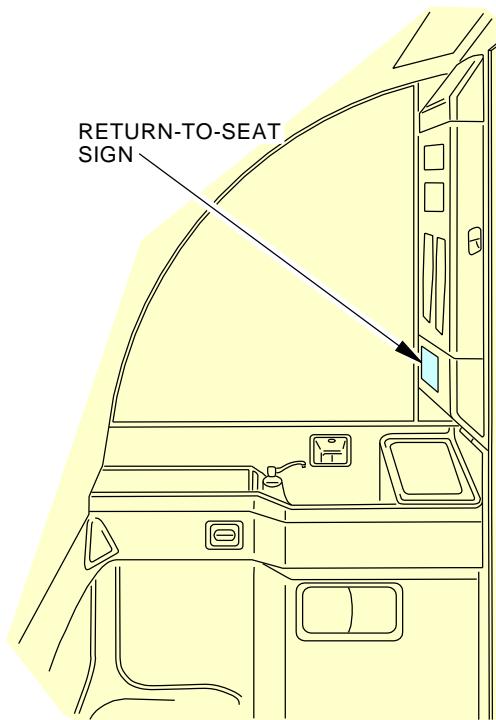
LAVATORY
(EXAMPLE)

FWD



(EXAMPLE)

A



F88169 S0006576050_V2

Information Sign - Lamp Replacement
Figure 201/33-25-00-990-807 (Sheet 2 of 2)

EFFECTIVITY
AKS ALL

33-25-00

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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
-----	-----	--------	------

C	8	C01406	PASS CABIN SIGNS FASTEN SEAT BELT R
C	9	C01405	PASS CABIN SIGNS FASTEN SEAT BELT L

AKS 007, 008, 011, 012

C	10	C01408	PASS CABIN SIGNS NO SMOKING RIGHT
C	11	C01407	PASS CABIN SIGNS NO SMOKING LEFT

AKS ALL

D	11	C00442	PASSENGER CABIN SIGNS PASS SIGN CONT
---	----	--------	--------------------------------------

These circuit breakers are inoperative and should remain open:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
-----	-----	--------	------

AKS 001-006, 009, 010, 013-999

C	10	C01408	PASS CABIN SIGNS NO SMOKING R (INOP)
C	11	C01407	PASS CABIN SIGNS NO SMOKING L (INOP)

———— END OF TASK ————

AKS ALL

TASK 33-25-00-960-807

4. Information Sign - Light Assembly Replacement for a No-Smoking/Fasten-Seat-Belt Sign

(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)
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	AKS 001-007

EFFECTIVITY
AKS ALL

33-25-00

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(Continued)

AMM Item	Description	AIPC Reference	AIPC Effectivity
41 (cont.)		33-25-00-12D-050	AKS 001-006, 009, 010, 013-020, 025-999
		33-25-00-12M-050	AKS 021-024
		33-25-00-13-050	AKS 007, 008, 011, 012

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
C	8	C01406	PASS CABIN SIGNS FASTEN SEAT BELT R
C	9	C01405	PASS CABIN SIGNS FASTEN SEAT BELT L
AKS 007, 008, 011, 012			
C	10	C01408	PASS CABIN SIGNS NO SMOKING RIGHT
C	11	C01407	PASS CABIN SIGNS NO SMOKING LEFT

AKS ALL

Open the applicable circuit breakers and install the safety tags:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
AKS 001-006, 009, 010, 013-999			
C	10	C01408	PASS CABIN SIGNS NO SMOKING R (INOP)
C	11	C01407	PASS CABIN SIGNS NO SMOKING L (INOP)

AKS ALL

E. Procedure

AKS ALL; 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:
 - Lower the PSU (Passenger Service Unit - Removal, TASK 25-23-61-000-804).
 - Disconnect the electrical connectors [42].
 - Pull the light assembly [41] from the clips that attach it to the PSU.
 - Put the new light assembly [41] in its position.
 - Push the light assembly [41] until the clips latch it to the PSU.
 - Connect the electrical connectors [42].
 - Close the PSU (Passenger Service Unit - Installation, TASK 25-23-61-400-804).

AKS ALL; AIRPLANES WITH A SIGN INSTALLED ON A WALL OR STOWAGE BIN END CAP.

SUBTASK 33-25-00-960-013

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

EFFECTIVITY
AKS ALL

33-25-00

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AKS ALL; AIRPLANES WITH A SIGN INSTALLED ON A WALL OR STOWAGE BIN END CAP. (Continued)

- (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.

AKS ALL

SUBTASK 33-25-00-860-019

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

CAPT Electrical System Panel, P18-3

Row Col Number Name

C	8	C01406	PASS CABIN SIGNS FASTEN SEAT BELT R
C	9	C01405	PASS CABIN SIGNS FASTEN SEAT BELT L

AKS 007, 008, 011, 012

C	10	C01408	PASS CABIN SIGNS NO SMOKING RIGHT
C	11	C01407	PASS CABIN SIGNS NO SMOKING LEFT

AKS ALL

Remove the safety tags and close the applicable circuit breakers:

CAPT Electrical System Panel, P18-3

Row Col Number Name

AKS 001-006, 009, 010, 013-999

C	10	C01408	PASS CABIN SIGNS NO SMOKING R (INOP)
C	11	C01407	PASS CABIN SIGNS NO SMOKING L (INOP)

AKS ALL

F. Replacement Test

SUBTASK 33-25-00-860-020

- (1) Make sure that electrical power is supplied to the airplane (Supply Electrical Power, TASK 24-22-00-860-811).

SUBTASK 33-25-00-710-009

- (2) Do this test of the new light assembly:

AKS 007, 008, 011, 012; AIRPLANES WITH NO-SMOKING SIGNS PERMANENTLY ILLUMINATED

- (a) Make sure the no-smoking symbol comes on when electrical power is supplied.

AKS ALL

- (b) At the pilots overhead panel, P5, set the switch for the seat belts to the on mode.

AKS 007, 008, 011, 012; AIRPLANES WITH NO-SMOKING SIGNS PERMANENTLY ILLUMINATED

NOTE: The switch for the no-smoking signs does not operate.

AKS ALL

- 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.

EFFECTIVITY
AKS ALL

33-25-00



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AKS 007, 008, 011, 012; AIRPLANES WITH NO-SMOKING SIGNS PERMANENTLY ILLUMINATED

- (d) Make sure the no-smoking symbol stays on.

AKS ALL

SUBTASK 33-25-00-860-021

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

———— END OF TASK ————

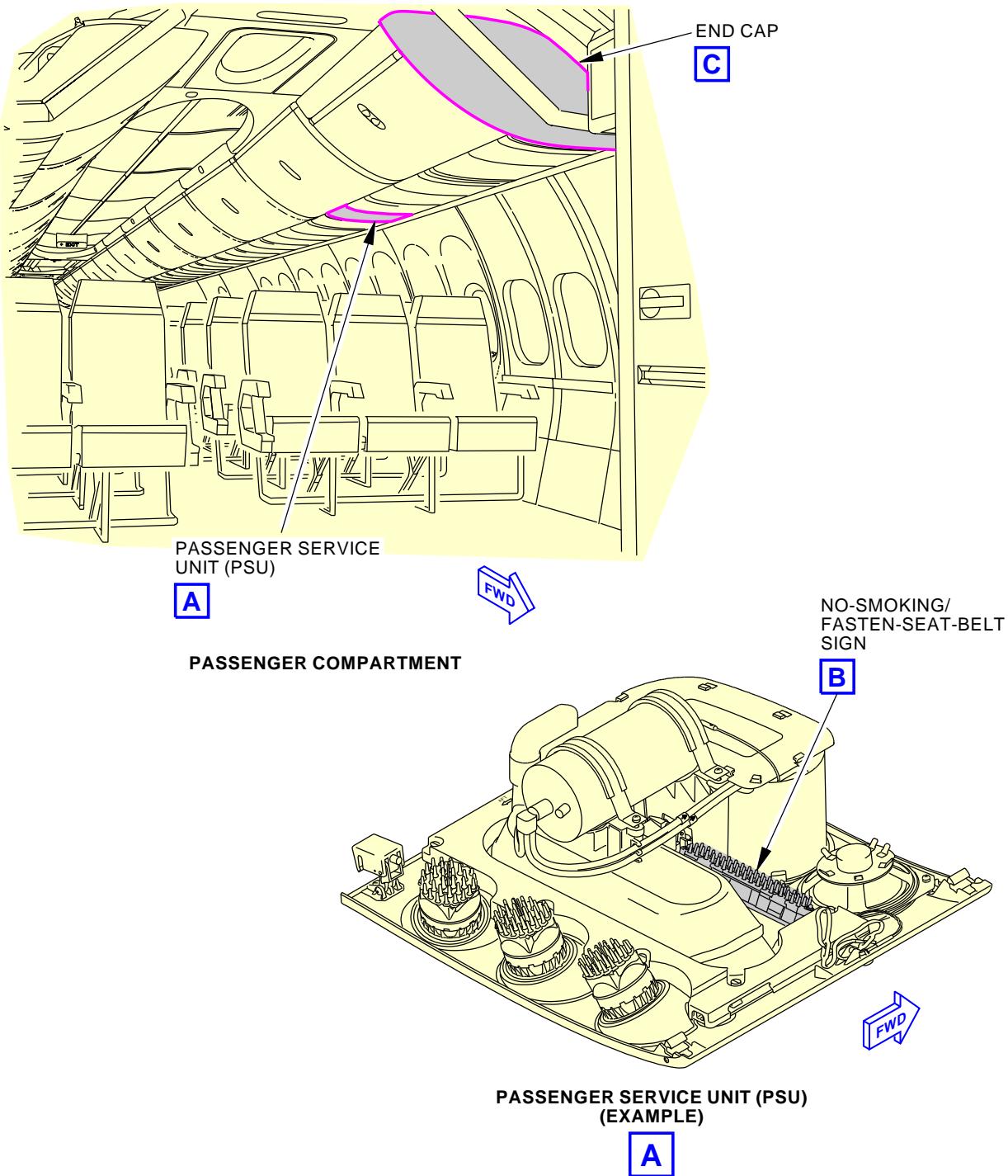
EFFECTIVITY
AKS ALL

33-25-00

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2071448 S0000431504_V3

Information Sign, No-Smoking/Fasten-Seat-Belt Sign - Light Assembly Replacement
Figure 202/33-25-00-990-806 (Sheet 1 of 3)

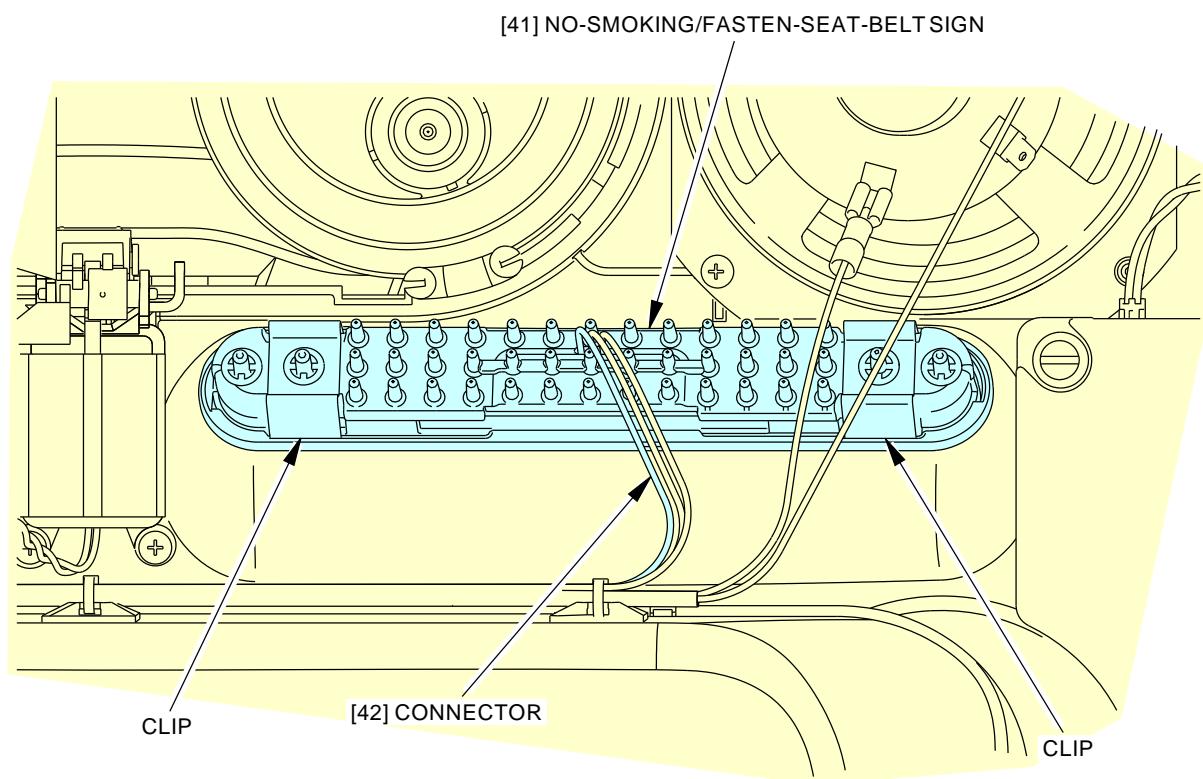
EFFECTIVITY
AKS ALL

33-25-00

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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 202/33-25-00-990-806 (Sheet 2 of 3)

EFFECTIVITY
AKS ALL

33-25-00

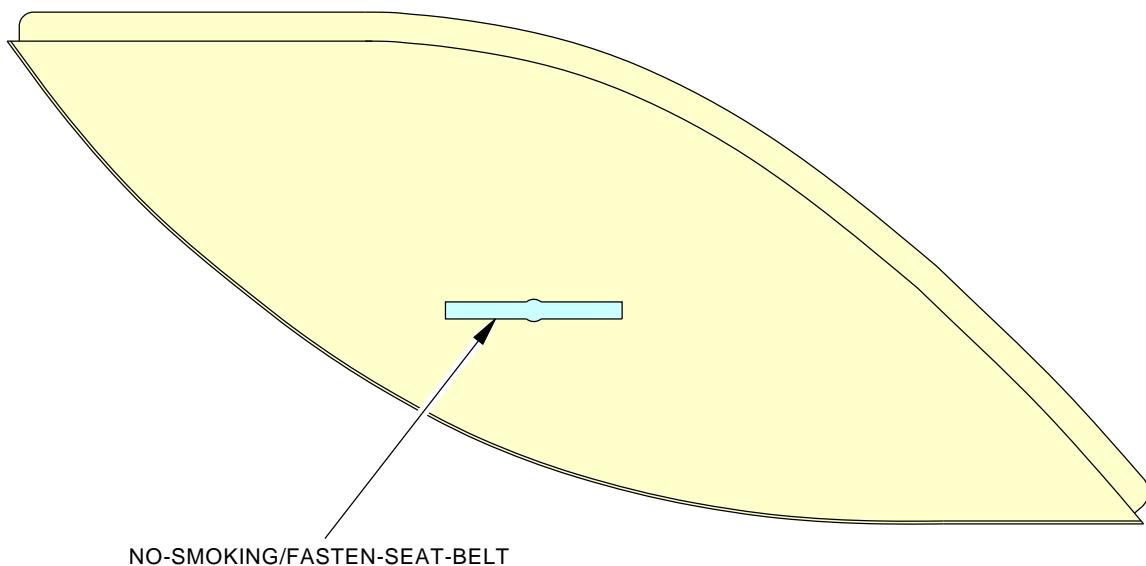
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END CAP
C

2452489 S0000569915_V1

Information Sign, No-Smoking/Fasten-Seat-Belt Sign - Light Assembly Replacement
Figure 202/33-25-00-990-806 (Sheet 3 of 3)

EFFECTIVITY
AKS ALL

33-25-00

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TASK 33-25-00-960-808

5. Information Sign - Lamp Replacement for a No-Smoking/Fasten-Seat-Belt Sign
(Figure 202)

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

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. 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
C	8	C01406	PASS CABIN SIGNS FASTEN SEAT BELT R
C	9	C01405	PASS CABIN SIGNS FASTEN SEAT BELT L
AKS 007, 008, 011, 012			
C	10	C01408	PASS CABIN SIGNS NO SMOKING RIGHT
C	11	C01407	PASS CABIN SIGNS NO SMOKING LEFT

AKS ALL

These circuit breakers are inoperative and should remain open:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
AKS 001-006, 009, 010, 013-999			
C	10	C01408	PASS CABIN SIGNS NO SMOKING R (INOP)
C	11	C01407	PASS CABIN SIGNS NO SMOKING L (INOP)

AKS ALL; AIRPLANES WITH A SIGN INSTALLED ON A WALL OR STOWAGE BIN END CAP.

E. Procedure

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.

EFFECTIVITY	AKS ALL
-------------	---------

33-25-00

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AKS ALL; AIRPLANES WITH A SIGN INSTALLED ON A WALL OR STOWAGE BIN END CAP. (Continued)

- (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

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	8	C01406	PASS CABIN SIGNS FASTEN SEAT BELT R
C	9	C01405	PASS CABIN SIGNS FASTEN SEAT BELT L
AKS 007, 008, 011, 012			
C	10	C01408	PASS CABIN SIGNS NO SMOKING RIGHT
C	11	C01407	PASS CABIN SIGNS NO SMOKING LEFT

AKS ALL; 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

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
AKS 001-006, 009, 010, 013-999			
C	10	C01408	PASS CABIN SIGNS NO SMOKING R (INOP)
C	11	C01407	PASS CABIN SIGNS NO SMOKING L (INOP)

AKS ALL; 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 (Supply Electrical Power, TASK 24-22-00-860-811).

SUBTASK 33-25-00-710-011

- (2) Do this test for the new lamp:

AKS 007, 008, 011, 012; AIRPLANES WITH NO-SMOKING SIGNS PERMANENTLY ILLUMINATED

- (a) Make sure the no-smoking symbol comes on when electrical power is supplied.

AKS ALL; 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.

EFFECTIVITY
AKS ALL

33-25-00



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AKS 007, 008, 011, 012; AIRPLANES WITH NO-SMOKING SIGNS PERMANENTLY ILLUMINATED

NOTE: The switch for the no-smoking signs does not operate.

AKS ALL; 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.

AKS 007, 008, 011, 012; AIRPLANES WITH NO-SMOKING SIGNS PERMANENTLY ILLUMINATED

- (d) Make sure the no-smoking symbol stays on.

AKS ALL; AIRPLANES WITH A SIGN INSTALLED ON A WALL OR STOWAGE BIN END CAP.

SUBTASK 33-25-00-860-027

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

————— END OF TASK ————

AKS ALL

TASK 33-25-00-960-803

| 6. Information Sign - Light Assembly Replacement for a Return-to-Seat Sign
(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 33-25-11	Wiring Diagram Manual

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

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
C	8	C01406	PASS CABIN SIGNS FASTEN SEAT BELT R
C	9	C01405	PASS CABIN SIGNS FASTEN SEAT BELT L

SUBTASK 33-25-00-960-005

- (2) Do these steps to replace the sign: (WDM 33-25-11)
 - (a) In the lavatory, open the utility door for access to the return-to-seat sign.
 - (b) Remove the screws and washers that hold the light assembly in its position.
 - (c) Disconnect the electrical wires.
 - (d) Replace the light assembly.
 - (e) Connect the electrical wires to the new light assembly.
 - (f) Install the washers and screws that hold the light assembly in its position.

EFFECTIVITY
AKS ALL

33-25-00



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- (g) Close the utility door.

SUBTASK 33-25-00-860-009

- (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>
C	8	C01406	PASS CABIN SIGNS FASTEN SEAT BELT R
C	9	C01405	PASS CABIN SIGNS FASTEN SEAT BELT L

SUBTASK 33-25-00-860-010

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

SUBTASK 33-25-00-710-003

- (5) 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

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

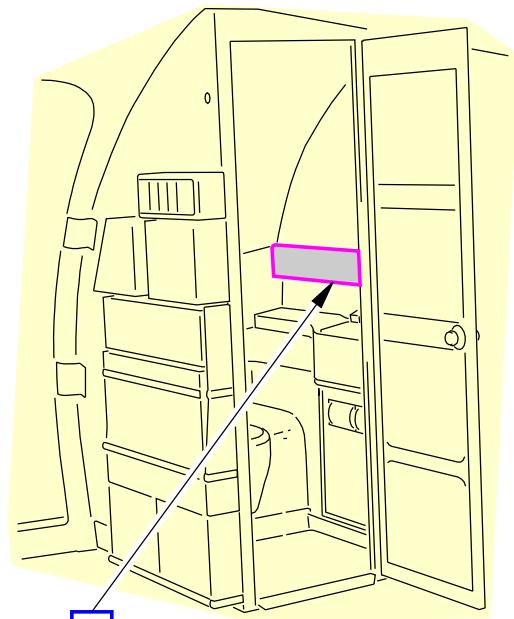
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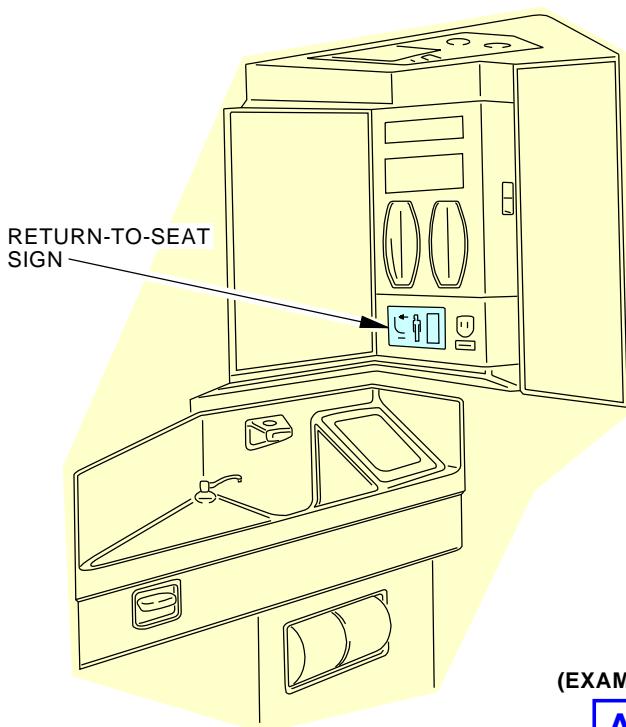
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A

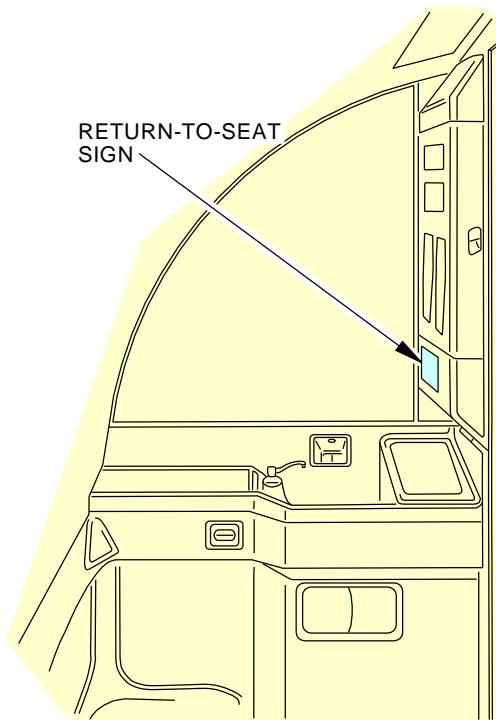
LAVATORY
(EXAMPLE)

FWD



(EXAMPLE)

A



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Information Sign, Return-To-Seat Sign - Light Assembly Replacement
Figure 203/33-25-00-990-803

EFFECTIVITY
AKS 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
118	Electrical and Electronics Compartment - Right
200	Upper Half of Fuselage

C. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

D. Procedure

SUBTASK 33-26-01-010-001

- (1) Open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 33-26-01-860-012

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	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.

EFFECTIVITY	AKS ALL
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SUBTASK 33-26-01-860-013

- (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 33-26-01-700-001

- (2) Do the following steps for the Attendant Work Lights:

- (a) At the FWD attendant panel, press the work light switch to the ON mode.
 - 1) Make sure the attendant work light does not come on.
- (b) At the AFT attendant panel, press the work light switch to the ON mode.
 - 1) Make sure the attendant work light does not come on.

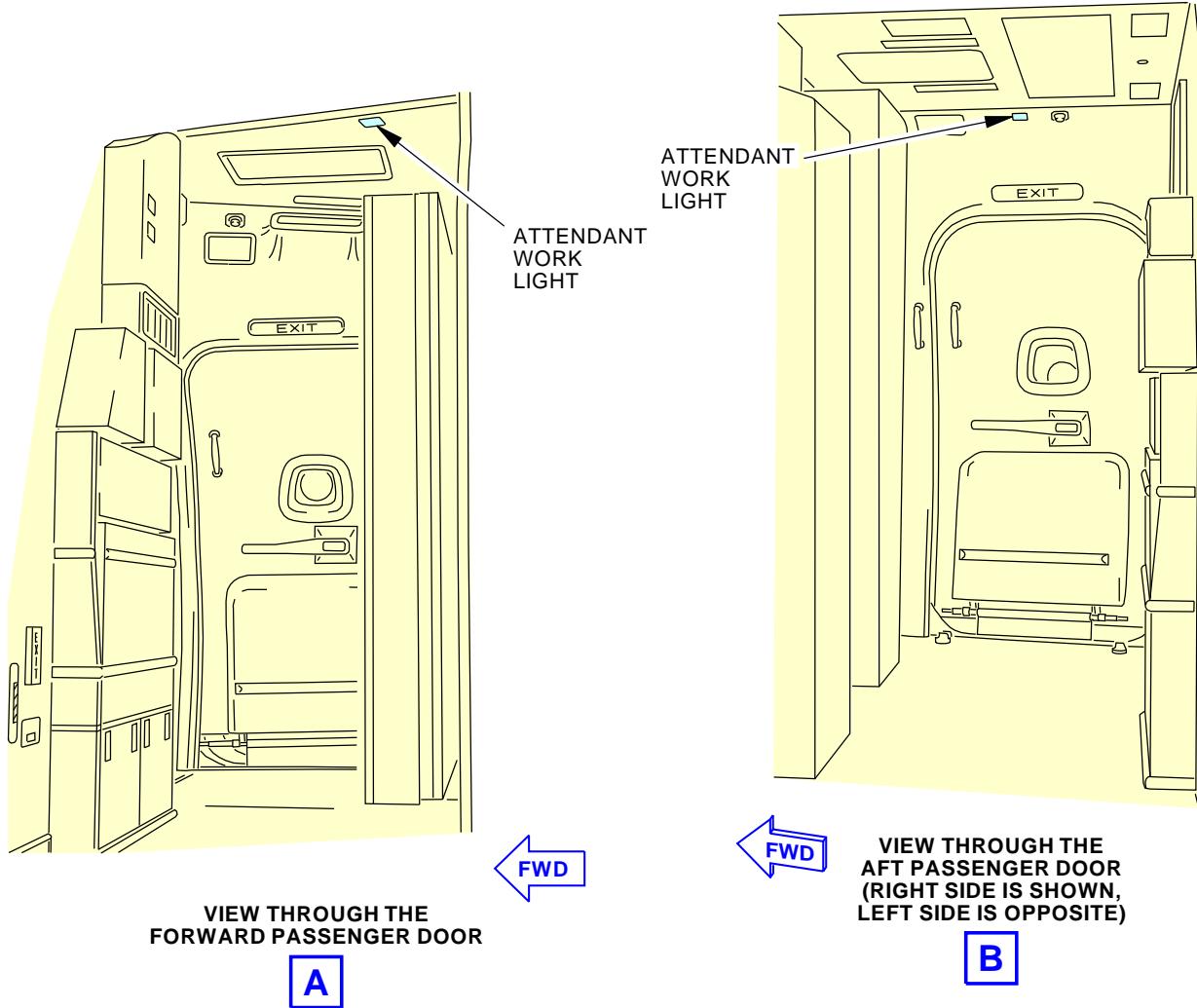
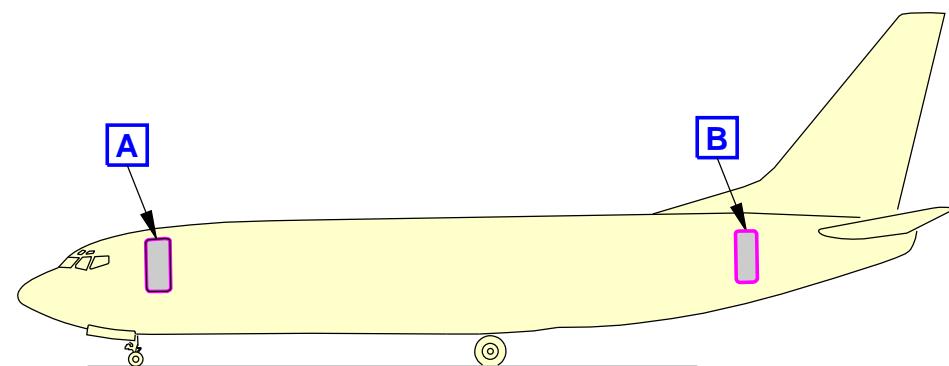
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EFFECTIVITY
AKS ALL

33-26-01



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Attendant Work Lights
Figure 201/33-26-01-990-803

EFFECTIVITY
AKS ALL

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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
118	Electrical and Electronics Compartment - Right
200	Upper Half of Fuselage

C. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

D. Procedure

SUBTASK 33-26-01-860-014

WARNING: DO NOT TOUCH THE CONDUCTORS IN THE P91 AND P92 PANELS. BE CAREFUL WHEN YOU GET ACCESS TO THE CIRCUIT BREAKERS ON THE INNER SIDE OF THE P91 AND P92 PANELS (ROW F). IF IT IS POSSIBLE, REMOVE AIRPLANE ELECTRICAL POWER FIRST. THE P91 AND P92 PANELS HAVE HIGH VOLTAGES AND CURRENTS. ELECTRICAL VOLTAGE AND CURRENT CAN KILL YOU OR CAUSE INJURIES.

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

Power Distribution Panel Number 1, P91

Row	Col	Number	Name
C	3	C00140	WORK AND THSHD LTS

SUBTASK 33-26-01-410-002

- (2) Close this access panel:

Number Name/Location

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

— END OF TASK —

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)

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Lamp	33-26-01-09A-045	AKS ALL



33-26-01

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C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Procedure

SUBTASK 33-26-01-860-011

- (1) 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.

- (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.

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.

- (2) 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

- (3) 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 33-26-01-710-003

- (4) 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.



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- 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.
- SUBTASK 33-26-01-860-002
- (5) If it is not necessary, remove electrical power. To remove it, do this task: Remove Electrical Power, TASK 24-22-00-860-812.

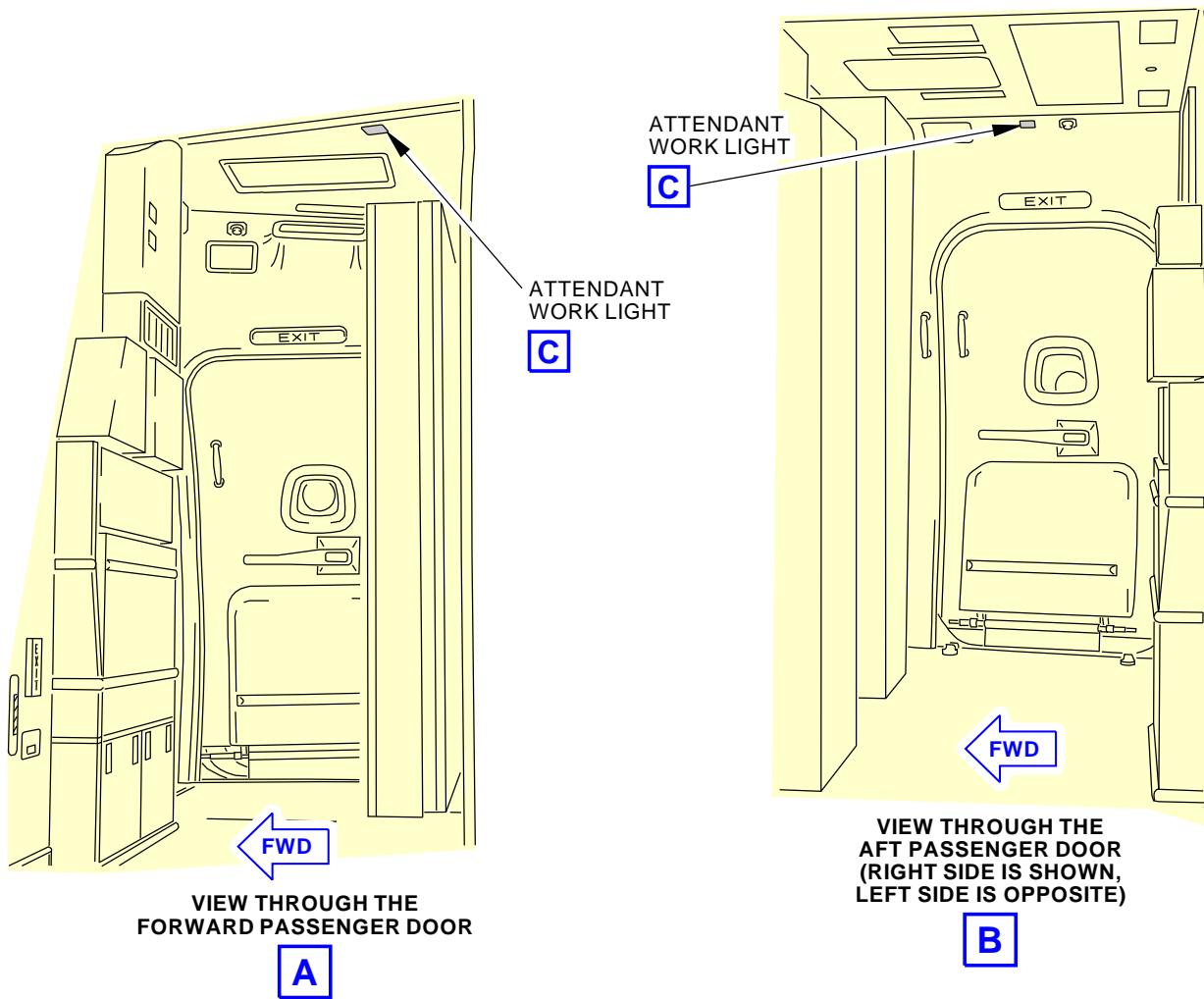
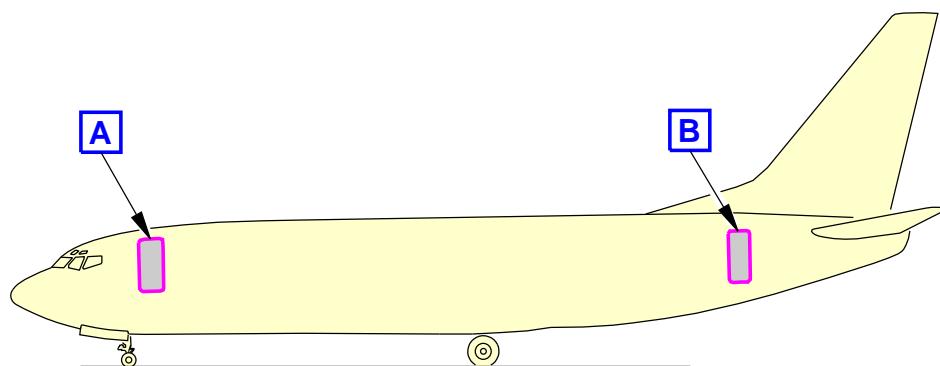
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EFFECTIVITY
AKS ALL

33-26-01



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Attendant Work Light - Lamp Replacement
Figure 202/33-26-01-990-801 (Sheet 1 of 2)

EFFECTIVITY
AKS ALL

33-26-01

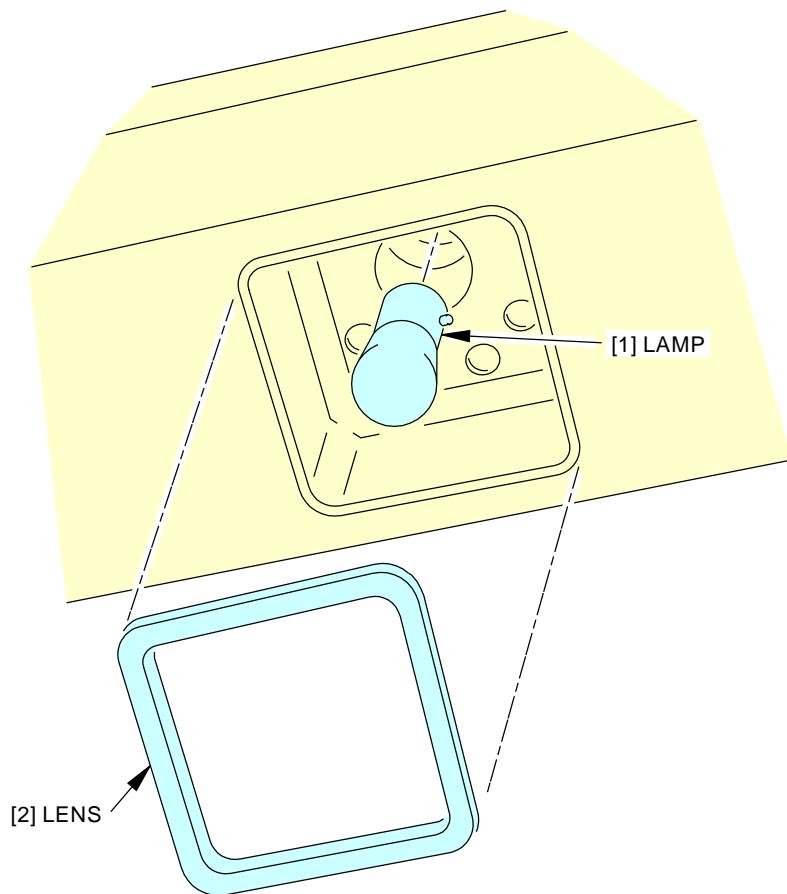
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AIRCRAFT MAINTENANCE MANUAL



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
AKS ALL

33-26-01

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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)
WDM 33-26-11	Wiring Diagram Manual

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
22	Light assembly	33-26-01-09A-040	AKS ALL

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Procedure

SUBTASK 33-26-01-860-003

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

Power Distribution Panel Number 1, P91

Row	Col	Number	Name
C	3	C00140	WORK AND THSHD LTS

SUBTASK 33-26-01-860-004

- (2) Get access to the back of the light assembly. (WDM 33-26-11)
 - (a) At the forward entry door, open the access panel.
 - (b) At the aft entry door, remove the overdoor panel.

SUBTASK 33-26-01-960-002

- (3) Do these steps to replace the light assembly :
 - (a) Lift away the cap [23].
 - (b) Disconnect the electrical wires [24].
 - (c) Loosen the fasteners [21] on the light assembly.
 - (d) Replace the light assembly [22].
 - (e) Tighten the fasteners [21].
 - (f) Connect the electrical wires [24] to the new light assembly.
 - (g) Cover the electrical wires with the cap [23].

SUBTASK 33-26-01-410-001

- (4) Close the panel.

SUBTASK 33-26-01-860-005

- (5) 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



33-26-01



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SUBTASK 33-26-01-860-006

- (6) 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 33-26-01-710-004

- (7) Do a test of the new light:

- (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.
 - 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.

SUBTASK 33-26-01-860-007

- (8) 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

AKS ALL

33-26-01

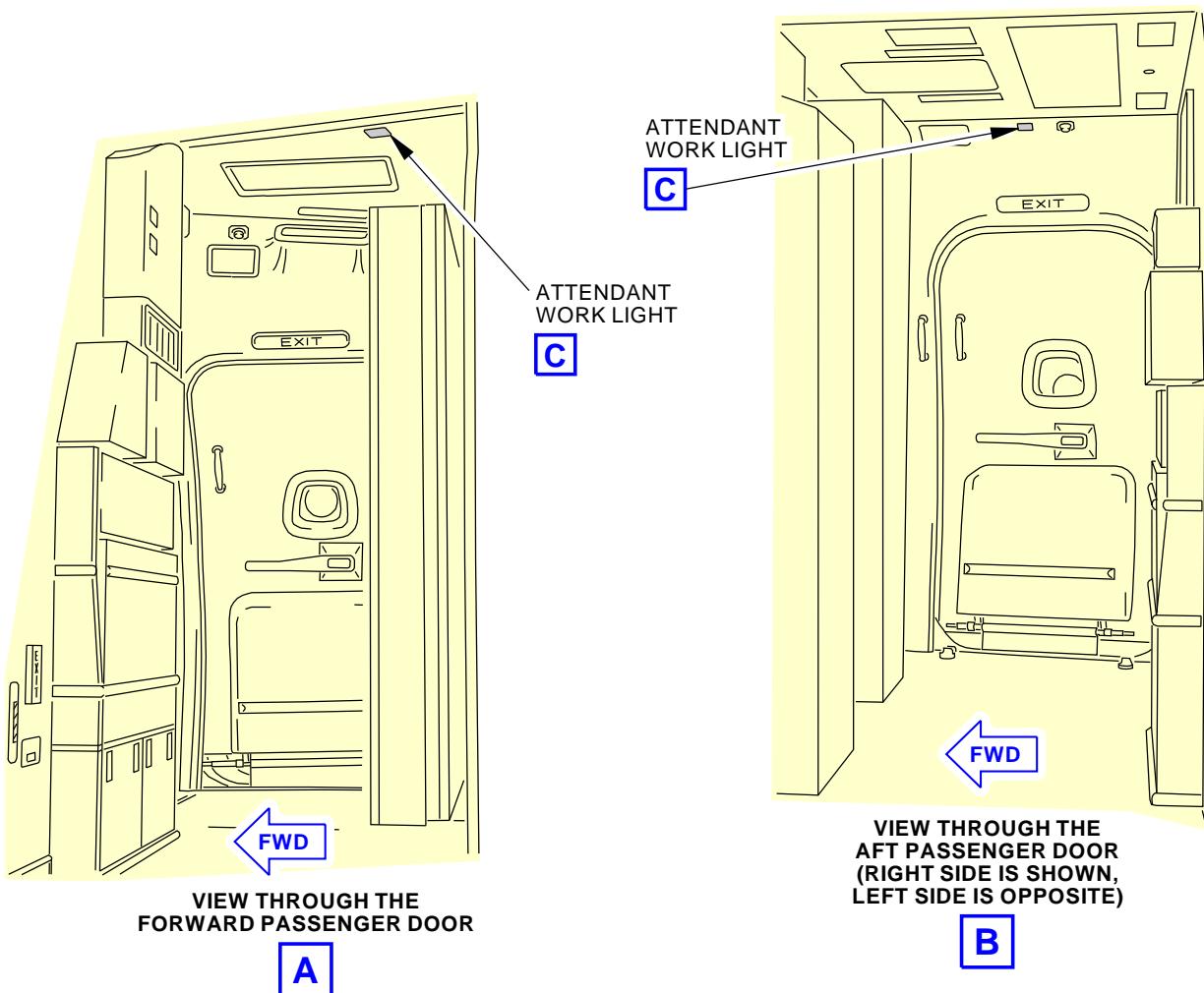
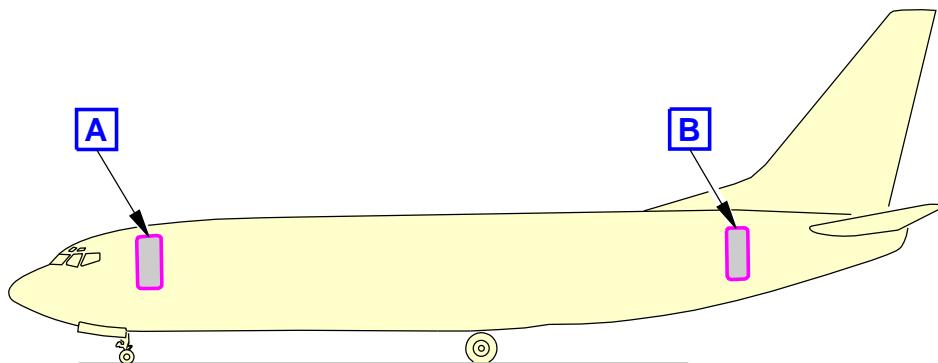
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Attendant Work Light - Light Assembly Replacement
Figure 203/33-26-01-990-802 (Sheet 1 of 2)

EFFECTIVITY
AKS ALL

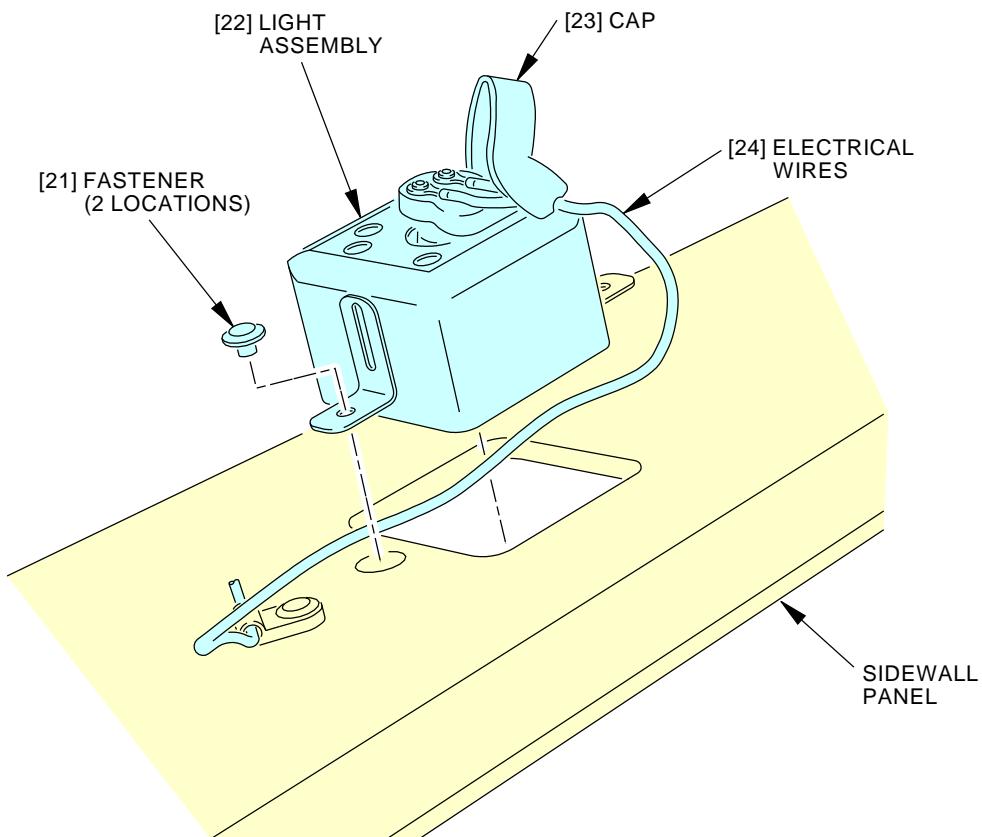
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ATTENDANT WORK LIGHT
(EXAMPLE)

C

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Attendant Work Light - Light Assembly Replacement
Figure 203/33-26-01-990-802 (Sheet 2 of 2)

EFFECTIVITY
AKS 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

<u>Zone</u>	<u>Area</u>
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

C. Access Panels

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

D. Procedure

SUBTASK 33-26-02-010-002

- (1) Open this access panel:

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

SUBTASK 33-26-02-860-008

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

E. FWD Galley Area Lights - Tryout

NOTE: This tryout is to make sure the FWD galley area lights is in a zero energy state.

SUBTASK 33-26-02-211-001

- (1) Do the following steps to verify the galley area light is off:



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- (a) Turn the galley area light switch on galley G1 control panel to "DIM" and confirm the galley area light is off.
- (b) Turn the galley area light switch on galley G1 control pane, to "BRIGHT" and confirm 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 adds electrical power to the FWD Right side Galley Area lights.

B. Location Zones

Zone	Area
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

C. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

D. Procedure

SUBTASK 33-26-02-860-009

WARNING: DO NOT TOUCH THE CONDUCTORS IN THE P91 AND P92 PANELS. BE CAREFUL WHEN YOU GET ACCESS TO THE CIRCUIT BREAKERS ON THE INNER SIDE OF THE P91 AND P92 PANELS (ROW F). IF IT IS POSSIBLE, REMOVE AIRPLANE ELECTRICAL POWER FIRST. THE P91 AND P92 PANELS HAVE HIGH VOLTAGES AND CURRENTS. ELECTRICAL VOLTAGE AND CURRENT CAN KILL YOU OR CAUSE INJURIES.

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

Power Distribution Panel Number 2, P92

Row	Col	Number	Name
E	10	C00242	GALLEY LTS

SUBTASK 33-26-02-410-002

- (2) 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

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

EFFECTIVITY
AKS ALL

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(Continued)

Reference	Title
24-22-00-860-812	Remove Electrical Power (P/B 201)
WDM 33-26-21	Wiring Diagram Manual

B. Location Zones

Zone	Area
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)

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 :

- (a) Loosen the fasteners [1] and remove the lens assembly [2].
- (b) Replace the lamp [3].

NOTE: Use the levers to eject the lamp.

- (c) 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:

- (a) Set the switch for the galley light 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.

SUBTASK 33-26-02-860-003

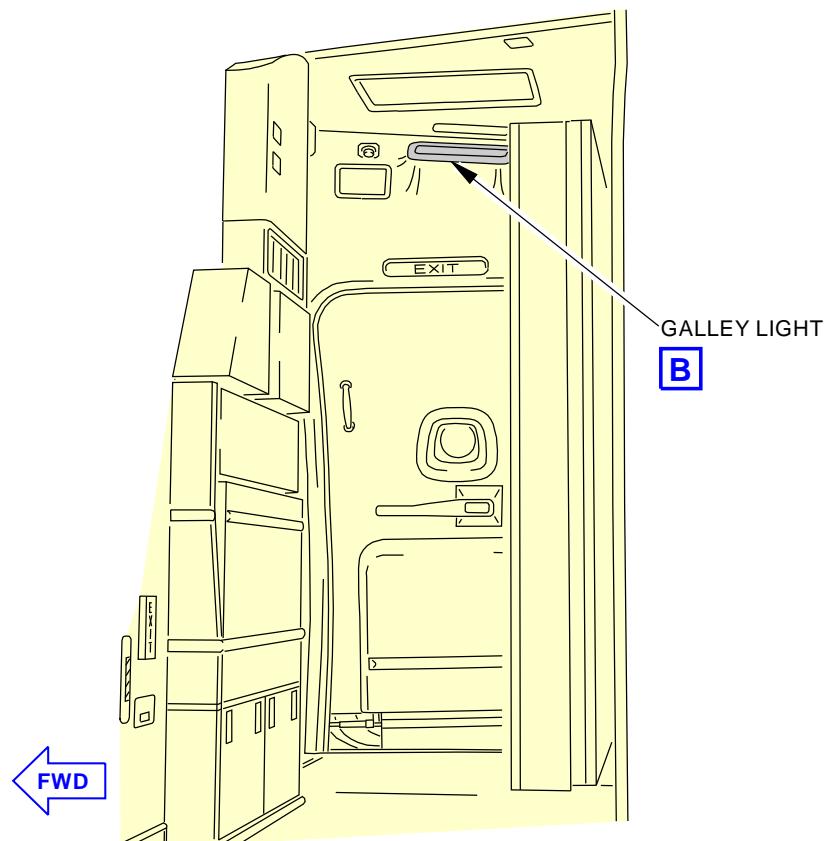
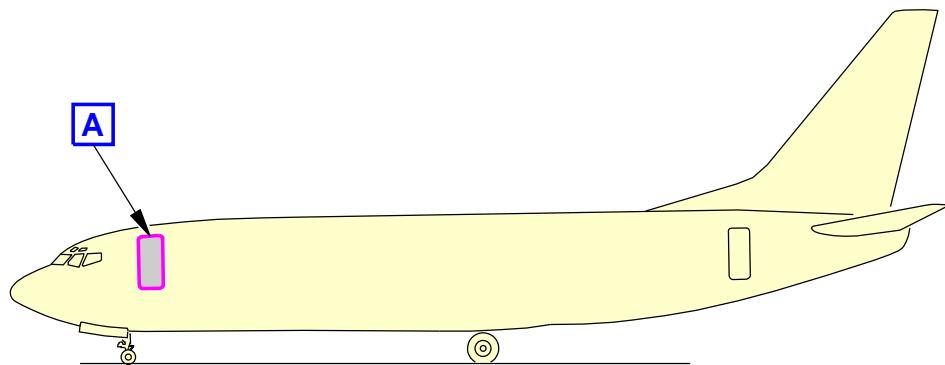
- (5) Do this task: Remove Electrical Power, TASK 24-22-00-860-812.

———— END OF TASK ————



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VIEW THROUGH THE
FORWARD PASSENGER DOOR



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Galley Light - Lamp Replacement
Figure 201/33-26-02-990-801 (Sheet 1 of 2)

EFFECTIVITY
AKS ALL

33-26-02

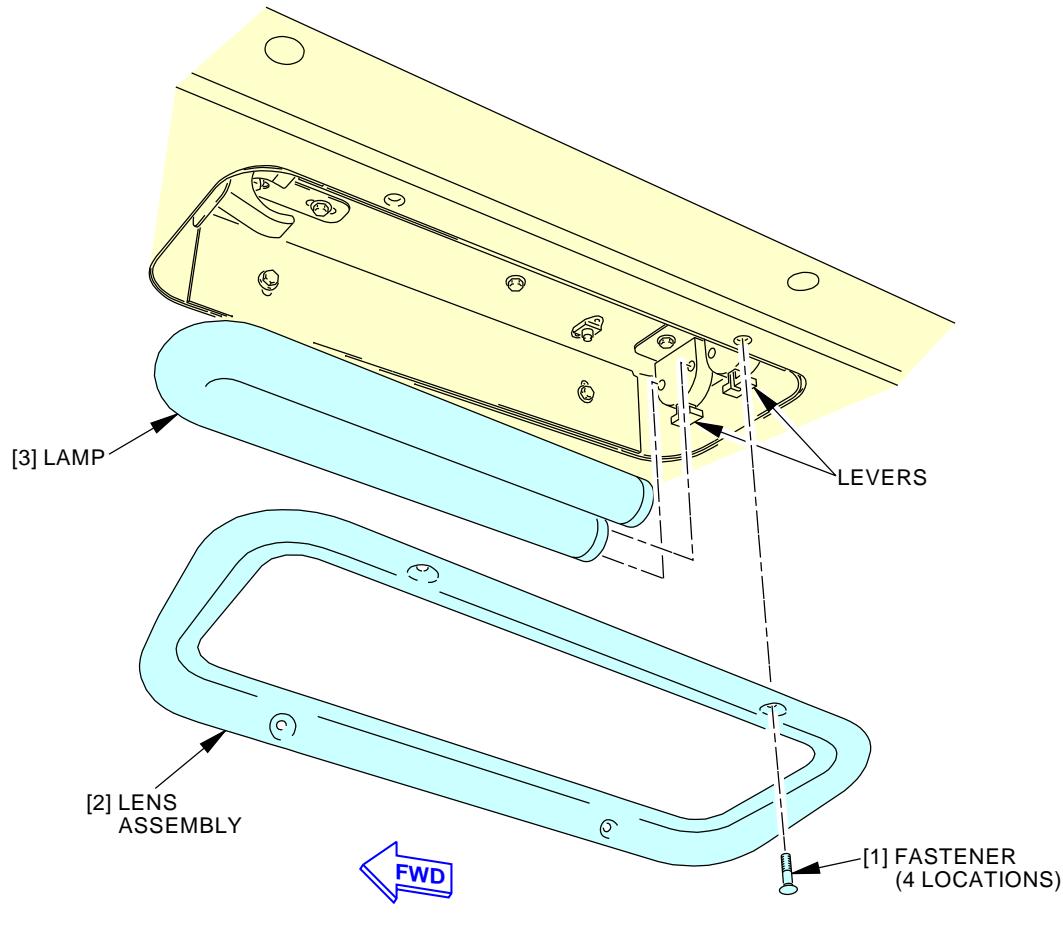
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GALLEY LIGHT



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Galley Light - Lamp Replacement
Figure 201/33-26-02-990-801 (Sheet 2 of 2)

EFFECTIVITY
AKS ALL

33-26-02



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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	33-26-02-95-120	AKS ALL

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Procedure

SUBTASK 33-26-02-860-004

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

Power Distribution Panel Number 2, P92

Row	Col	Number	Name
E	10	C00242	GALLEY LTS

SUBTASK 33-26-02-010-001

- (2) Remove the galley light for access to the ballast (WDM 33-26-21):

- (a) Loosen the fasteners [1] and remove the lens assembly [2].
- (b) Remove the lamp [3].

NOTE: Use the levers to eject the lamp.

- (c) Remove the screws [23] and washers [22] in the housing.
- (d) Lower the housing [21].

SUBTASK 33-26-02-960-002

- (3) Do these steps to replace the ballast:

- (a) Disconnect the electrical connector [25] from the ballast.
- (b) Remove the screws [27] and washers [26] from the ballast.
- (c) Replace the ballast [24].
- (d) Install the screws [27] and washers [26].
- (e) Connect the electrical connector [25] to the new ballast.

SUBTASK 33-26-02-410-001

- (4) Install the galley light:

- (a) Put the housing [21] back in its position.
- (b) Install the screws [23] and washers [22] in the housing.
- (c) Install the lamp [3].
- (d) Install the lens assembly [2] and tighten the fasteners [1].

EFFECTIVITY	AKS ALL
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33-26-02



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SUBTASK 33-26-02-860-005

- (5) 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 33-26-02-860-006

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

SUBTASK 33-26-02-710-002

- (7) 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 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.

SUBTASK 33-26-02-860-007

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

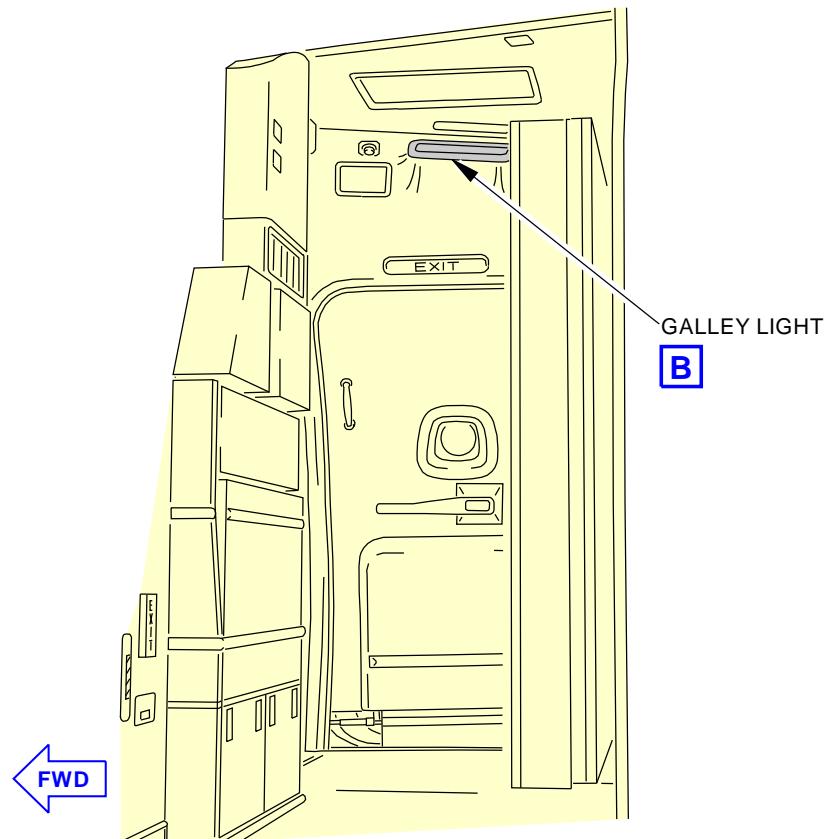
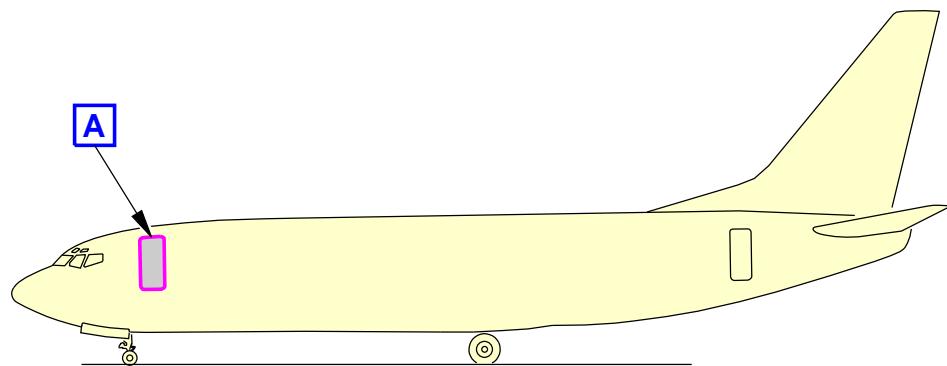
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VIEW THROUGH THE
FORWARD PASSENGER DOOR

A

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Galley Light - Ballast Replacement
Figure 202/33-26-02-990-802 (Sheet 1 of 3)

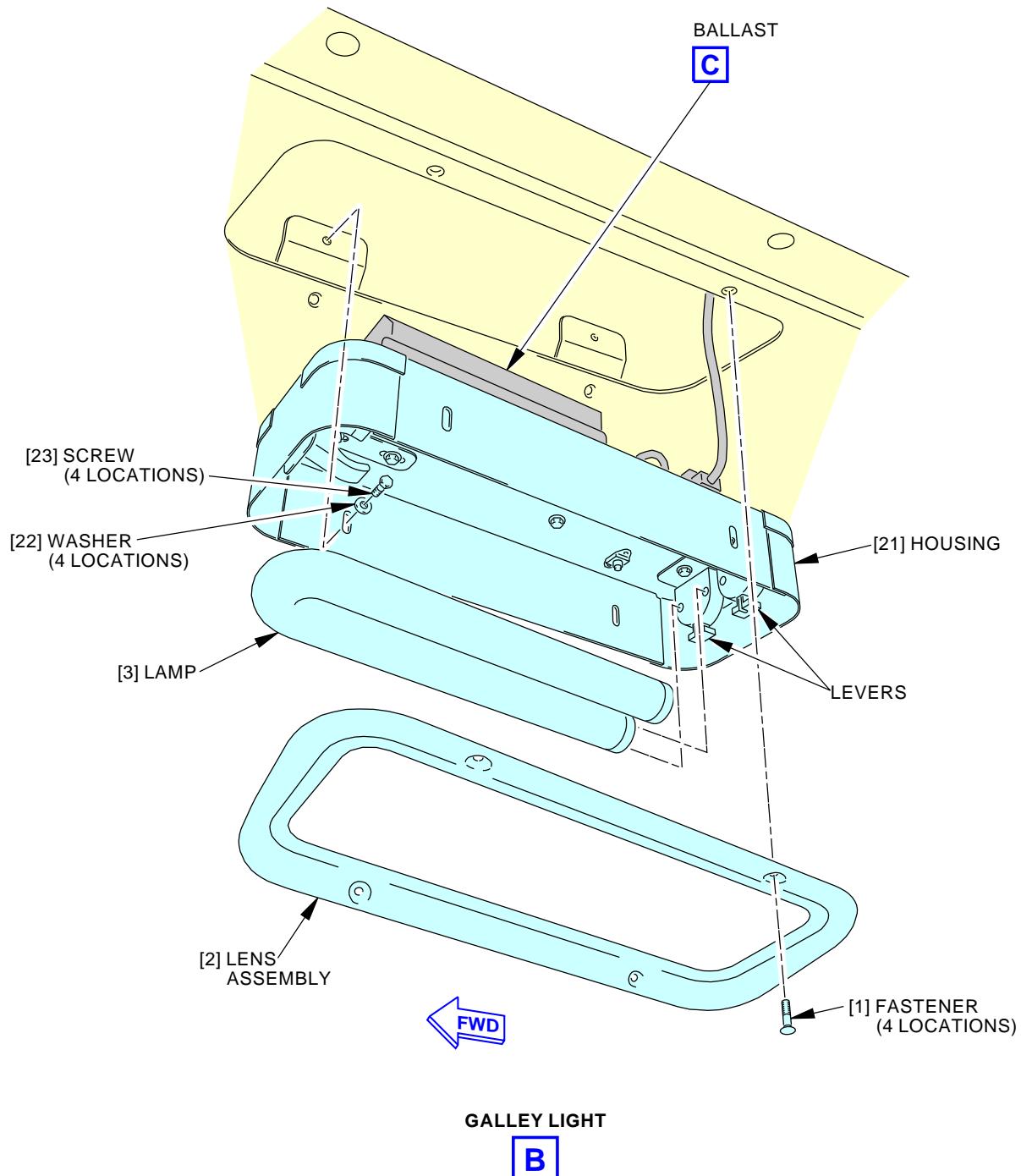
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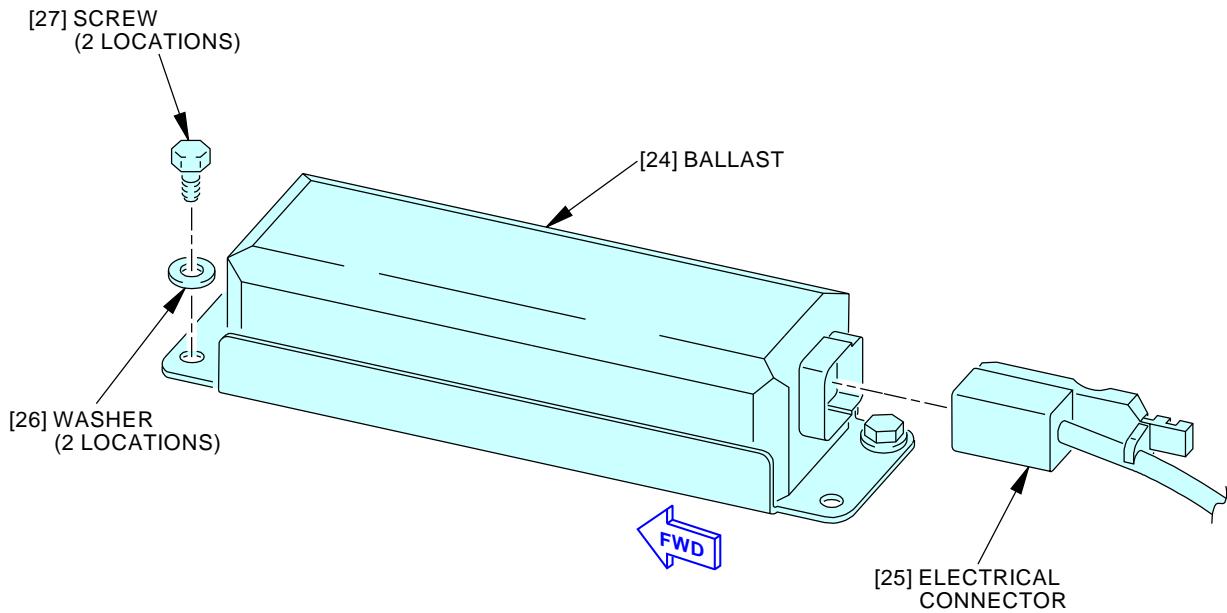
Galley Light - Ballast Replacement
Figure 202/33-26-02-990-802 (Sheet 2 of 3)

EFFECTIVITY
AKS ALL

33-26-02



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Galley Light - Ballast Replacement
Figure 202/33-26-02-990-802 (Sheet 3 of 3)

EFFECTIVITY
AKS ALL

33-26-02

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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**

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

C. **Procedure**

SUBTASK 33-26-03-860-033

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
E	14	C01648	LAVATORY MIRROR LIGHT

D. **Lavatory Lights - Tryout**

SUBTASK 33-26-03-200-001

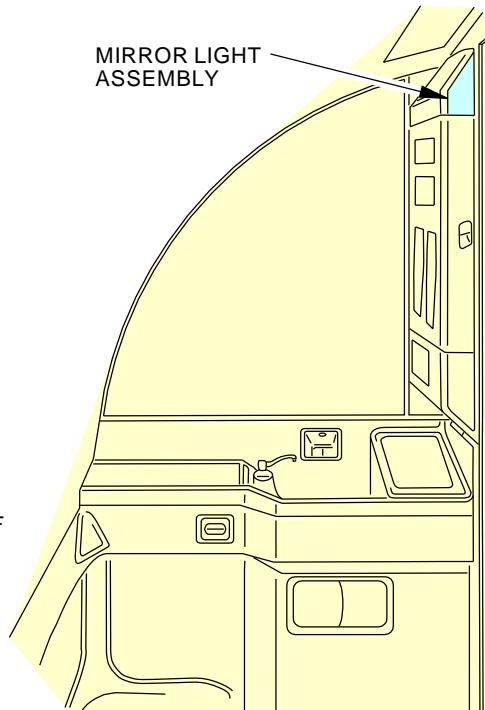
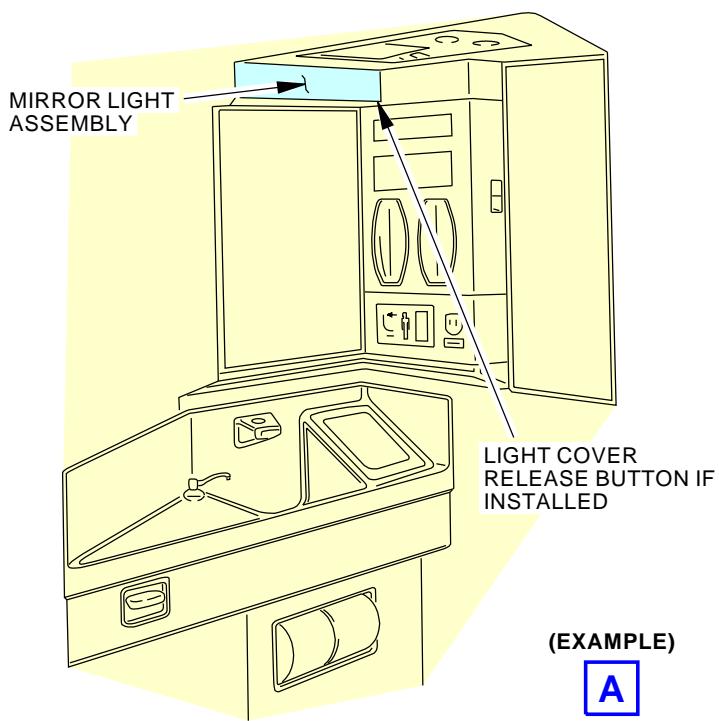
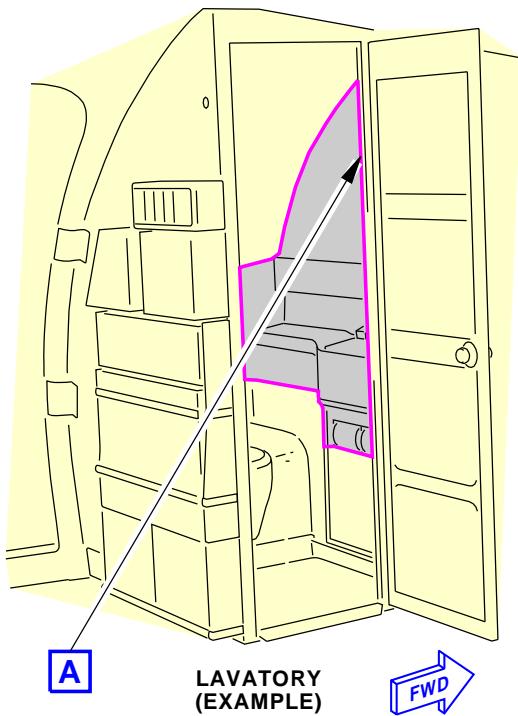
NOTE: This tryout is to make sure the Lavatory lights is in a zero energy state.

- (1) At each lavatory, close the door and make sure that the lights are off.

———— END OF TASK ————

EFFECTIVITY
AKS ALL

33-26-03



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Lavatory Lights
Figure 201/33-26-03-990-810

EFFECTIVITY
AKS ALL

33-26-03

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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 tag and close this circuit breaker:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
E	14	C01648	LAVATORY MIRROR LIGHT

———— END OF TASK ————

TASK 33-26-03-960-801

4. Lavatory 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 33-26-31	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
A	8	C01403	PASSENGER CABIN PASS CALL LEFT
D	10	C01217	PASS CAB SIGNS LAV OCC SIGN

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.

EFFECTIVITY
AKS ALL

33-26-03



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- 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, [2], [3], [4], or [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

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	8	C01403	PASSENGER CABIN PASS CALL LEFT
D	10	C01217	PASS CAB SIGNS LAV OCC SIGN

SUBTASK 33-26-03-860-009

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

SUBTASK 33-26-03-710-002

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

NOTE: The lamps in the mirror light assembly are energized when electrical power is supplied to the airplane and the Lav door is closed.

- (a) Make sure the lamp comes on.

SUBTASK 33-26-03-410-001

- (6) Align the lens [1] on the mirror light assembly, and push it back into its position.

SUBTASK 33-26-03-860-010

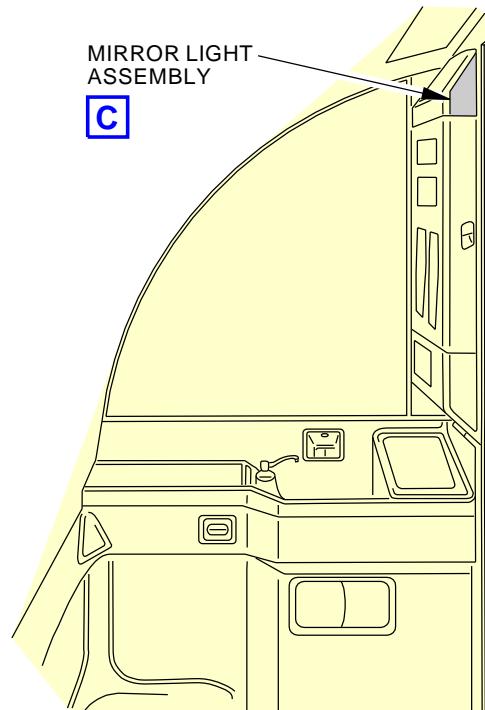
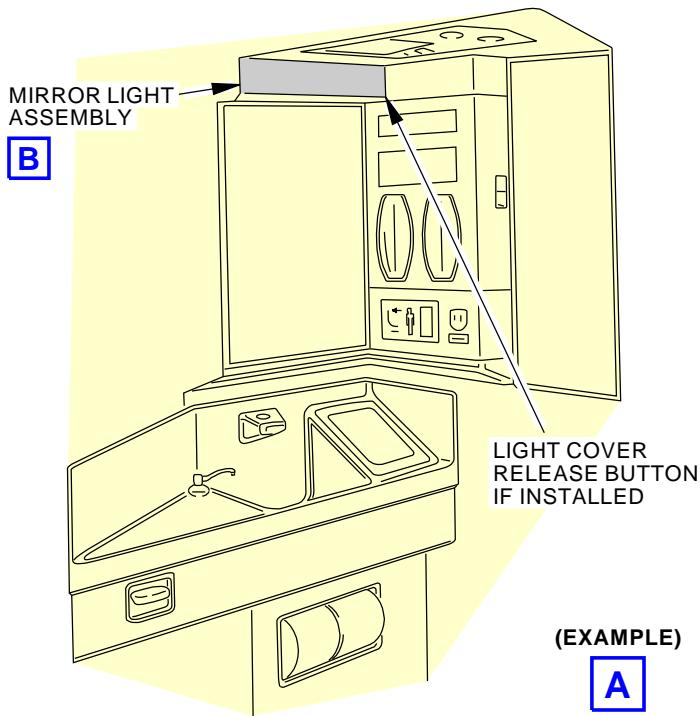
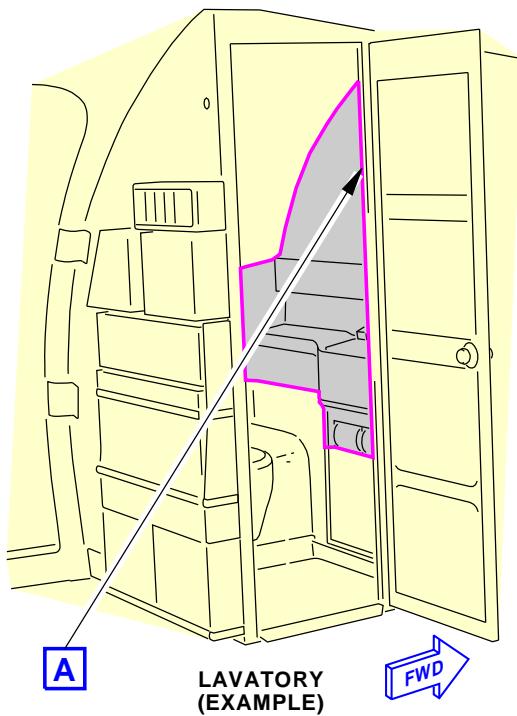
- (7) Do this task: Remove Electrical Power, TASK 24-22-00-860-812.

———— END OF TASK ————

EFFECTIVITY

AKS ALL

33-26-03



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Lavatory Light - Lamp Replacement
Figure 202/33-26-03-990-801 (Sheet 1 of 3)

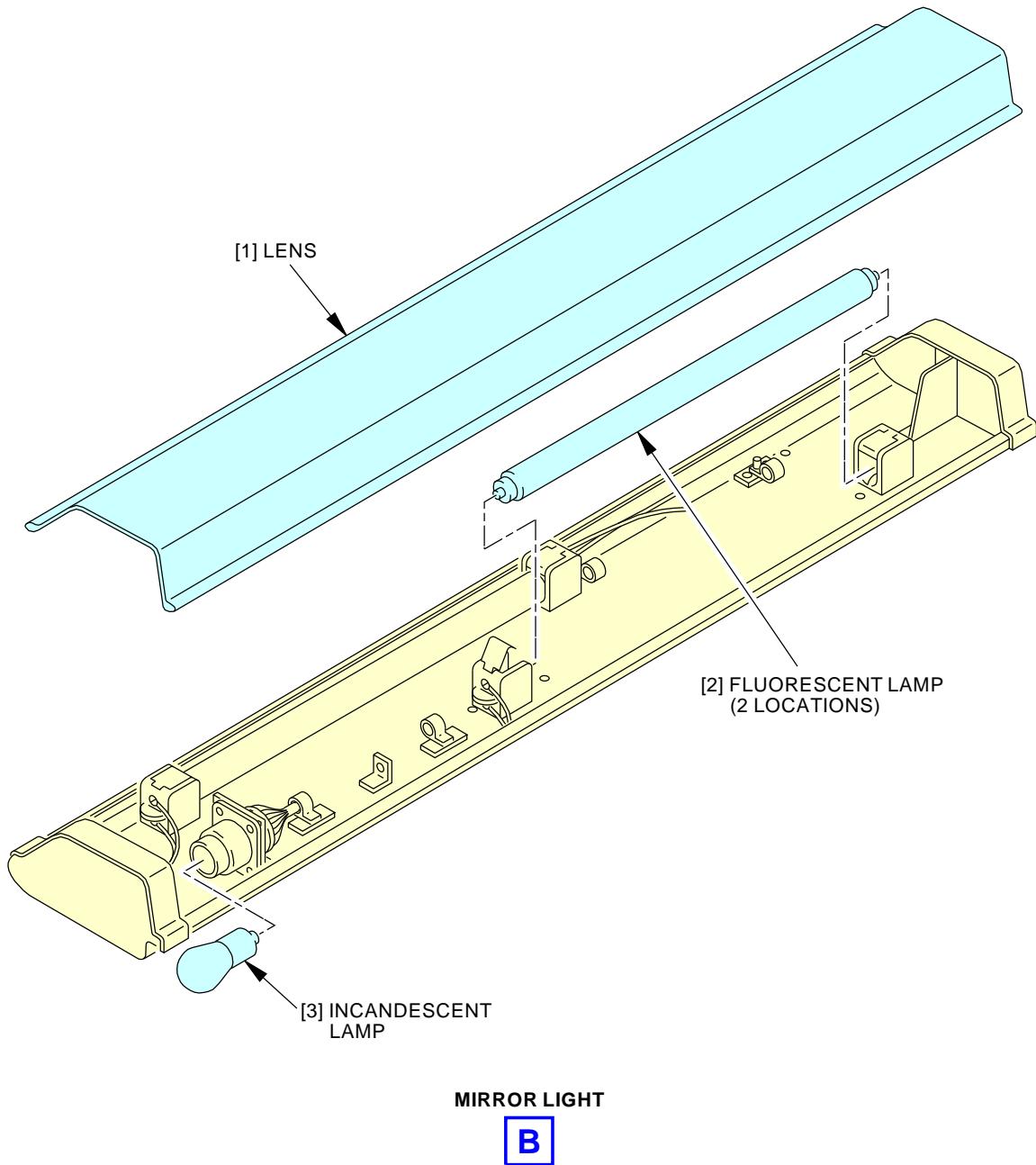
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Lavatory Light - Lamp Replacement
Figure 202/33-26-03-990-801 (Sheet 2 of 3)

EFFECTIVITY
AKS ALL

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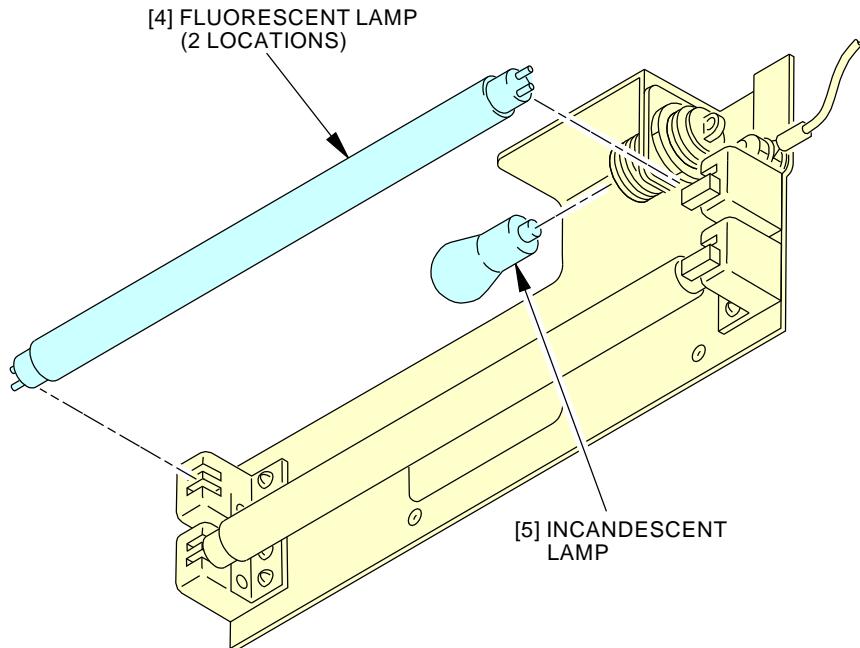
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MIRROR LIGHT

C

F89495 S0006576074_V2

Lavatory Light - Lamp Replacement
Figure 202/33-26-03-990-801 (Sheet 3 of 3)

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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 this circuit breaker and install safety tag:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
E	14	C01648	LAVATORY MIRROR LIGHT

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 tag and close this circuit breaker:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
E	14	C01648	LAVATORY MIRROR LIGHT

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 —
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Lavatory Light - Ballast Replacement
Figure 203/33-26-03-990-802 (Sheet 1 of 3)

EFFECTIVITY
AKS ALL

33-26-03

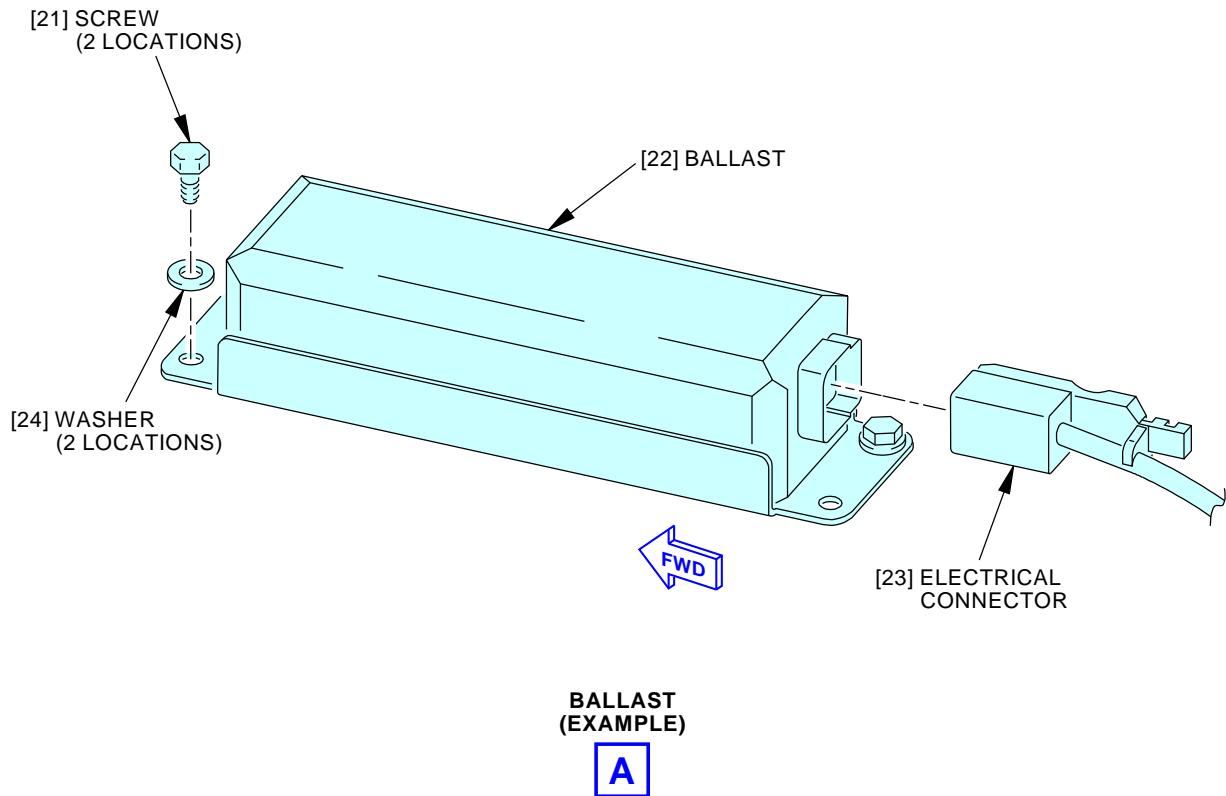
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Lavatory Light - Ballast Replacement
Figure 203/33-26-03-990-802 (Sheet 2 of 3)

EFFECTIVITY
AKS ALL

33-26-03

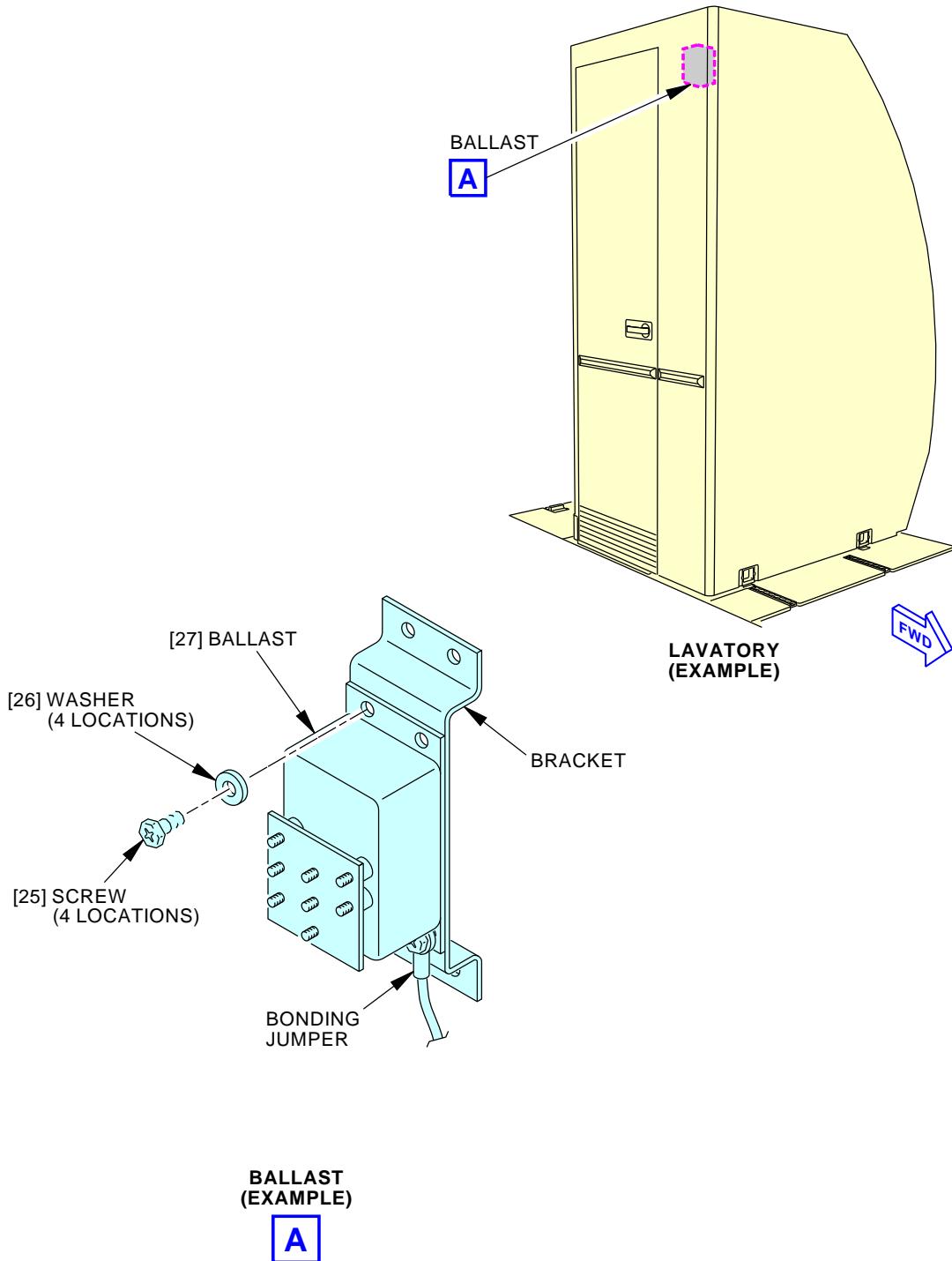
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Lavatory Light - Ballast Replacement
Figure 203/33-26-03-990-802 (Sheet 3 of 3)

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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
A	8	C01403	PASSENGER CABIN PASS CALL LEFT
D	10	C01217	PASS CAB SIGNS LAV OCC SIGN

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.

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
A	8	C01403	PASSENGER CABIN PASS CALL LEFT
D	10	C01217	PASS CAB SIGNS LAV OCC SIGN

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.

EFFECTIVITY
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33-26-03



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SUBTASK 33-26-03-860-032

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

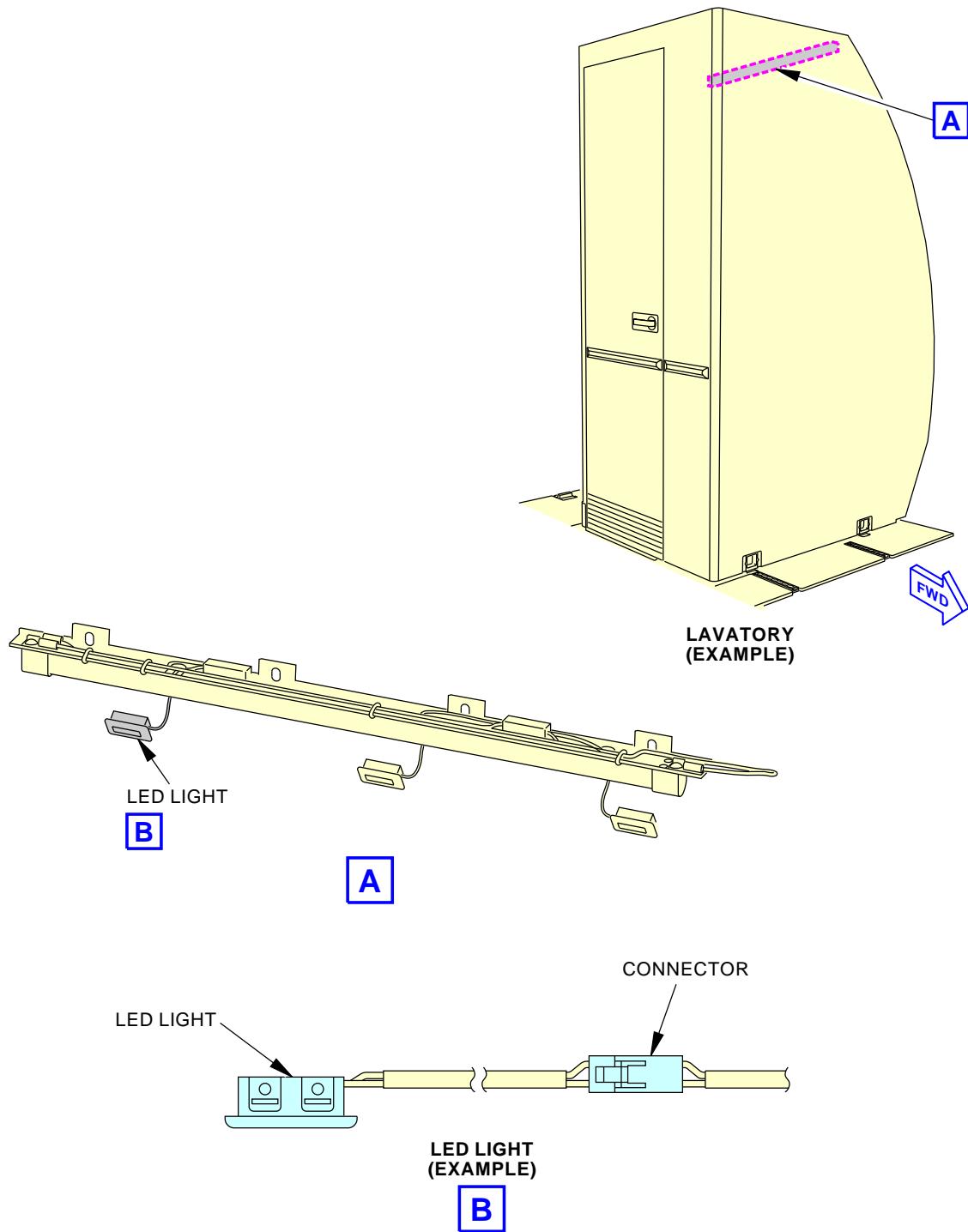
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EFFECTIVITY
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Lavatory Light - LED Light Replacement
Figure 204/33-26-03-990-809

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TASK 33-26-03-960-803

7. Lavatory-Occupied Sign - 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. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Procedure

SUBTASK 33-26-03-860-005

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
D	10	C01217	PASS CAB SIGNS LAV OCC SIGN

SUBTASK 33-26-03-960-004

- (2) 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.

- 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.

SUBTASK 33-26-03-860-006

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
D	10	C01217	PASS CAB SIGNS LAV OCC SIGN

SUBTASK 33-26-03-860-007

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

SUBTASK 33-26-03-710-001

- (5) 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.

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- (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.

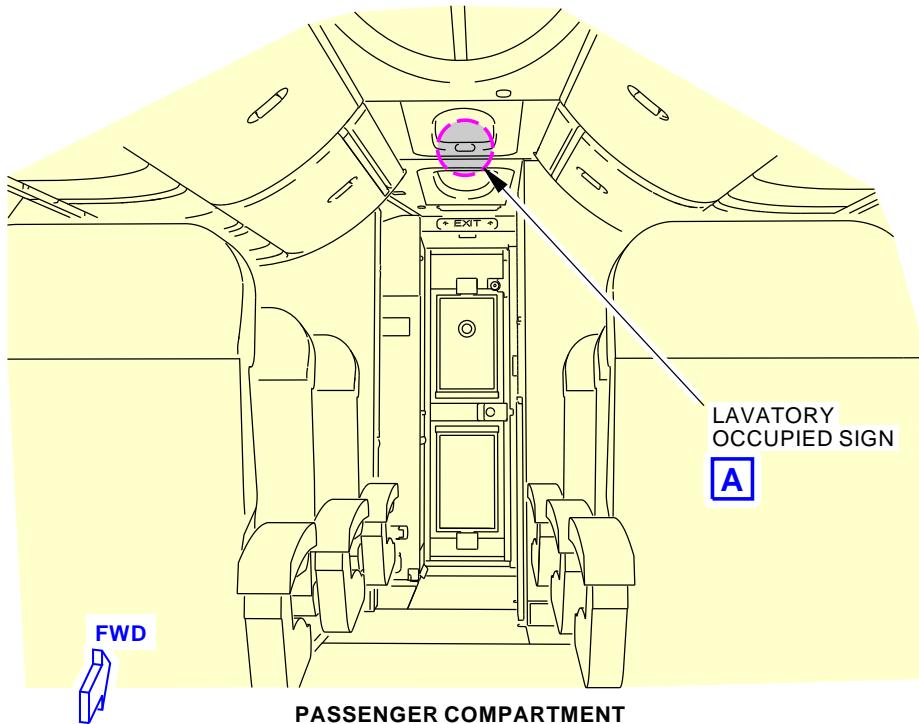
SUBTASK 33-26-03-860-008

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

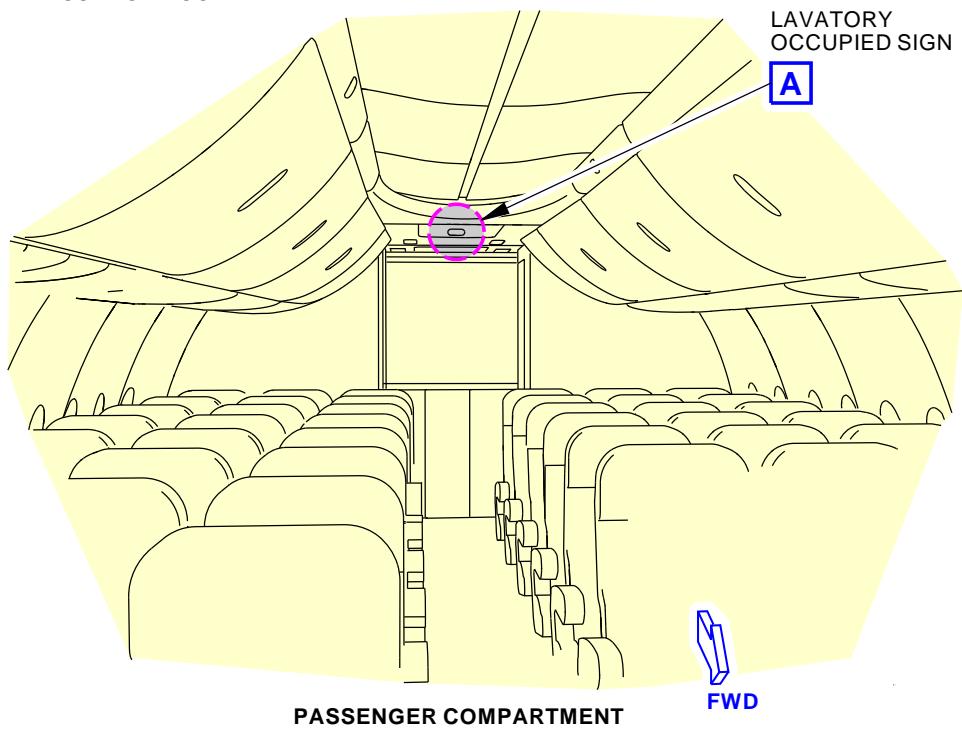
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PASSENGER COMPARTMENT



PASSENGER COMPARTMENT

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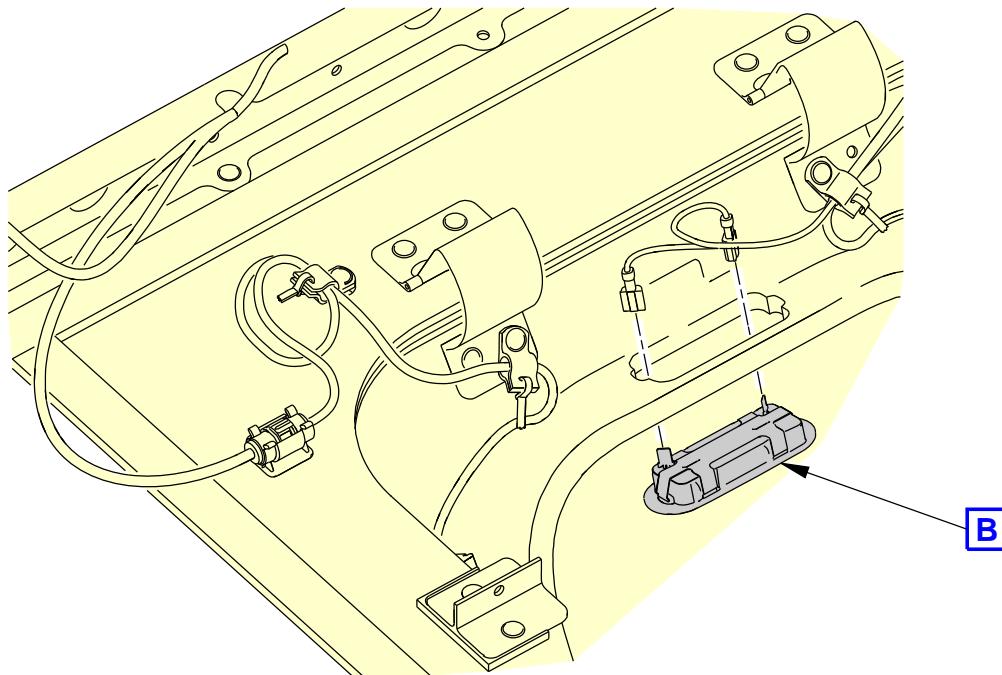
Lavatory Occupied Sign - Light Assembly Replacement
Figure 205/33-26-03-990-805 (Sheet 1 of 2)EFFECTIVITY
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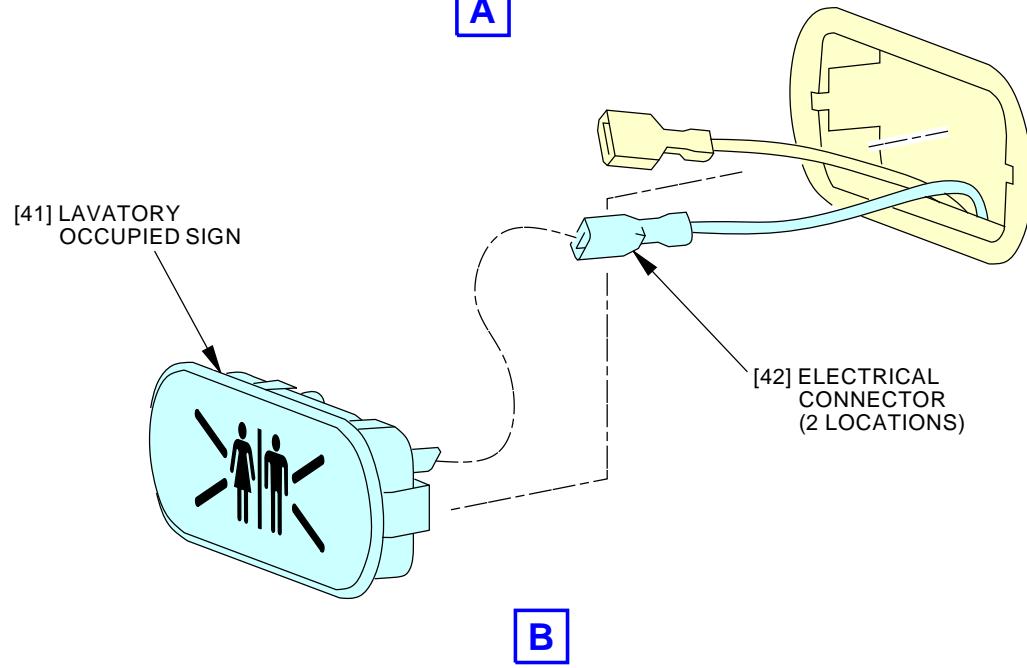


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LAVATORY OCCUPIED SIGN

B



B

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Lavatory Occupied Sign - Light Assembly Replacement
Figure 205/33-26-03-990-805 (Sheet 2 of 2)

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TASK 33-26-03-960-804

8. Lavatory Door Switch - Adjustment/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)
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. Procedure

WDM 33-26-31

NOTE: The Door Switch has two sets of contacts. One set controls the Lav 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) If necessary, do these steps to remove the Lav door:
 - (a) Support the door [10] in the open position.
 - (b) Remove the 12 screws [20] attaching the door to the Lav.
 - (c) Move the door away from the Lav.

SUBTASK 33-26-03-820-001

- (3) Do these steps to adjust the switch :
 - (a) Remove the two screws attaching the switch assembly to the door jamb.
 - (b) Carefully pull the switch assembly out from the door jamb.
 - (c) 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: The Lever Assembly has a small actuator lever attached that can be used to raise the Lever assembly manually.

- 1) If the actuator is "sticking," causing the mirror light to remain On bright, a small amount of lubricant in the area may be needed in addition to the indicated alignment.

SUBTASK 33-26-03-970-001

- (4) Install the switch assembly in the door jamb:
 - (a) Put the switch assembly [30] back into the door jamb, being careful that the wires are not pinched between the switch assembly and the door jamb.

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- (b) Attach the switch assembly with the two screws [33].

SUBTASK 33-26-03-860-014

- (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>
D	10	C01217	PASS CAB SIGNS LAV OCC SIGN
E	14	C01648	LAVATORY MIRROR LIGHT

SUBTASK 33-26-03-410-002

- (6) Replace the Lav Door:

- (a) While holding the door [10] and it's hinge in place against the Lav door jamb, attach it using the 12 screws [20].

SUBTASK 33-26-03-860-015

- (7) Make sure that electrical power is supplied to the airplane (TASK 24-22-00-860-811).

SUBTASK 33-26-03-710-004

- (8) Do the test of the lavatory mirror lights in the task Passenger Compartment Lights - Operational Test, TASK 33-20-00-710-804-001.

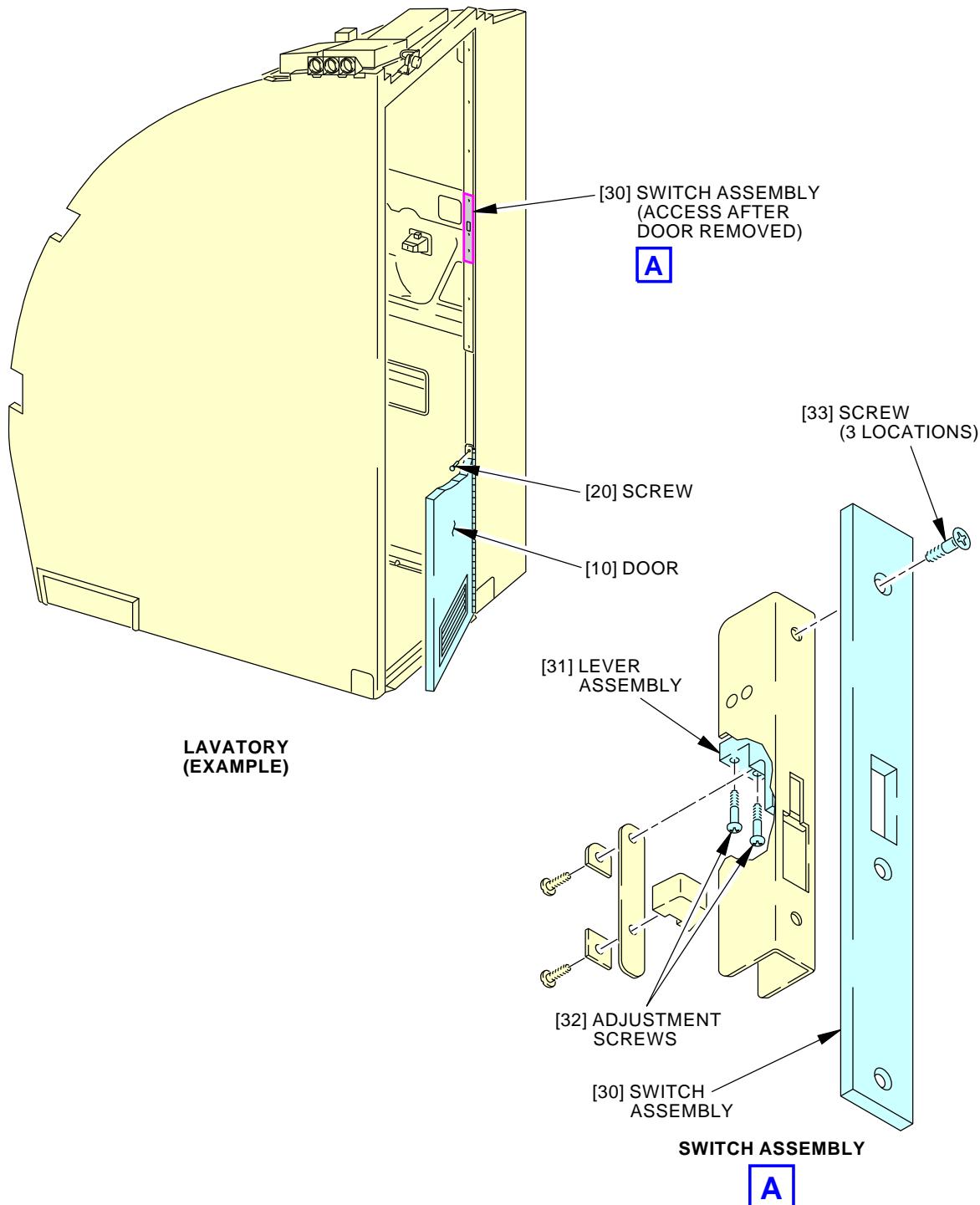
SUBTASK 33-26-03-860-016

- (9) If it is not necessary, remove electrical power (TASK 24-22-00-860-812).

———— END OF TASK ————



33-26-03



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LAVATORY DOOR SWITCH - ADJUSTMENT/REPLACEMENT
Figure 206/33-26-03-990-804

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PASSENGER AND LAVATORY CALL LIGHTS - MAINTENANCE PRACTICES

1. General

- A. This procedure has these tasks:
- (1) Passenger and Lavatory Call Lights Deactivation
 - (2) Passenger and Lavatory Call Lights Activation
 - (3) Passenger Call Light - PSU LED Call Light Replacement
 - (4) Lavatory Call Light - Light/Switch Replacement

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
A	8	C01403	PASSENGER CABIN PASS CALL LEFT
B	8	C01404	PASSENGER CABIN PASS CALL RIGHT

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.

- (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.

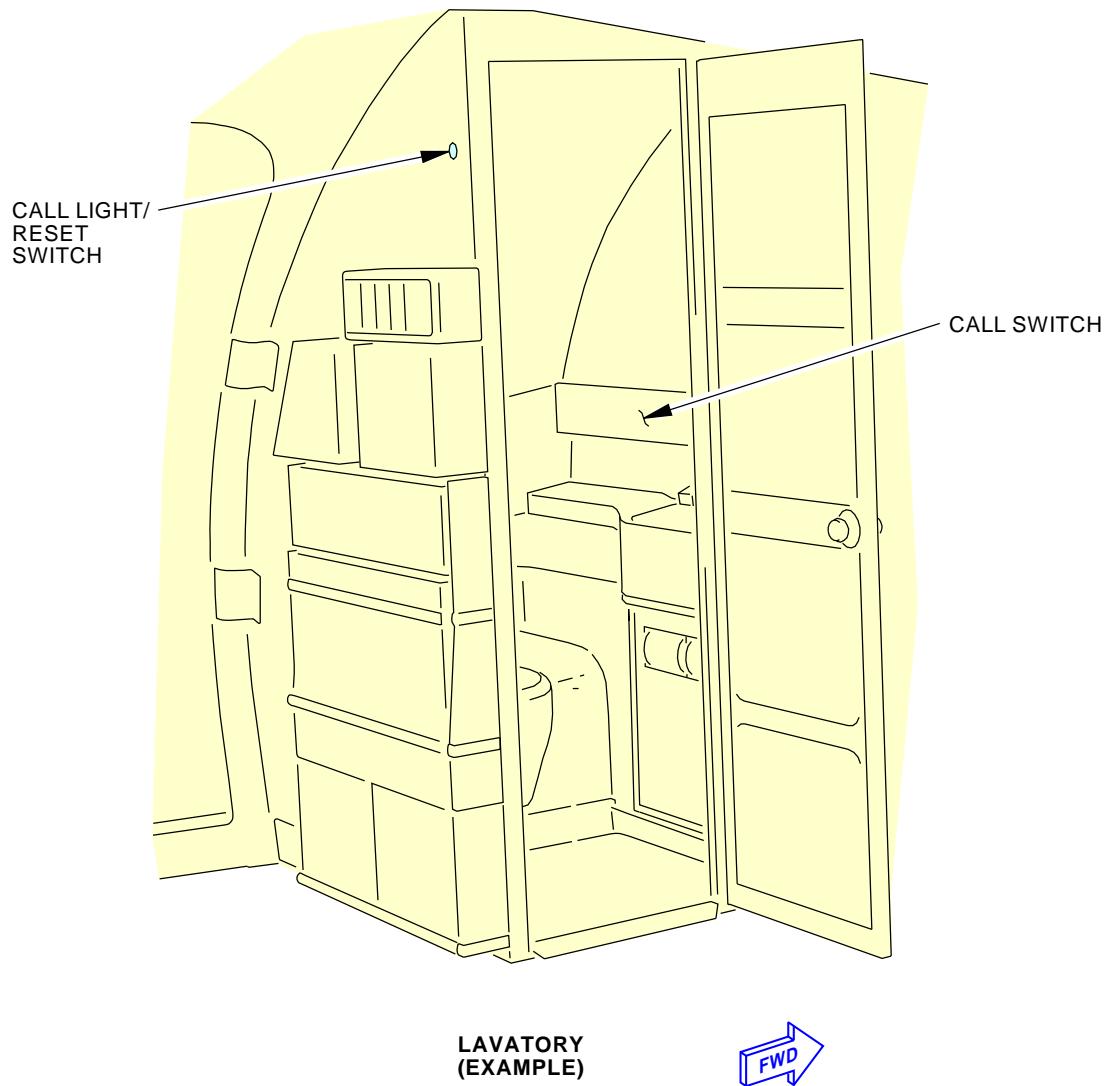
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Passenger and Lavatory Call Lights
Figure 201/33-27-00-990-804 (Sheet 1 of 2)

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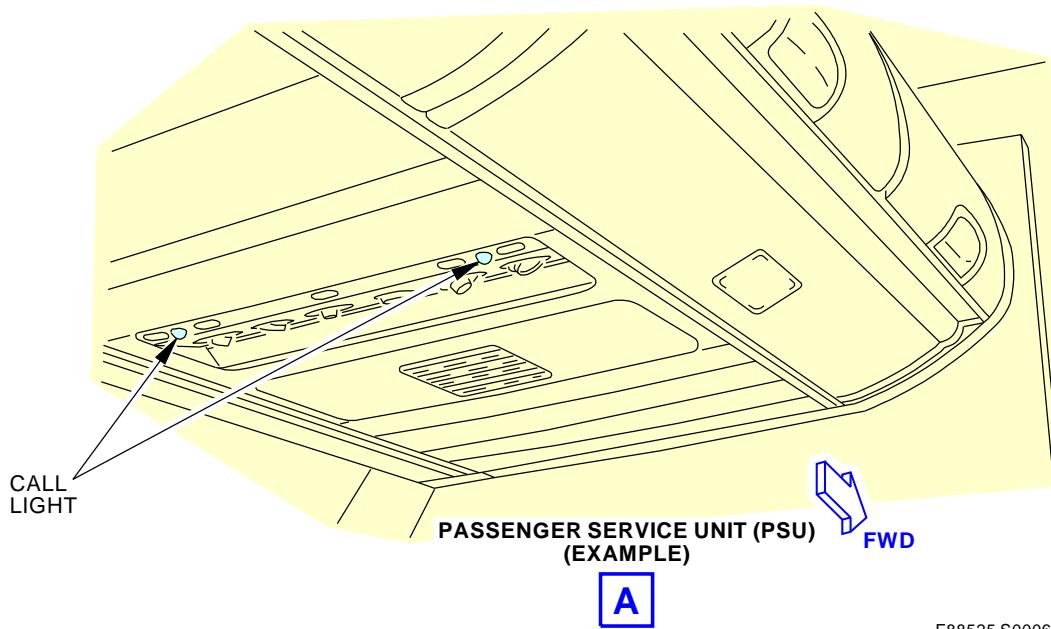
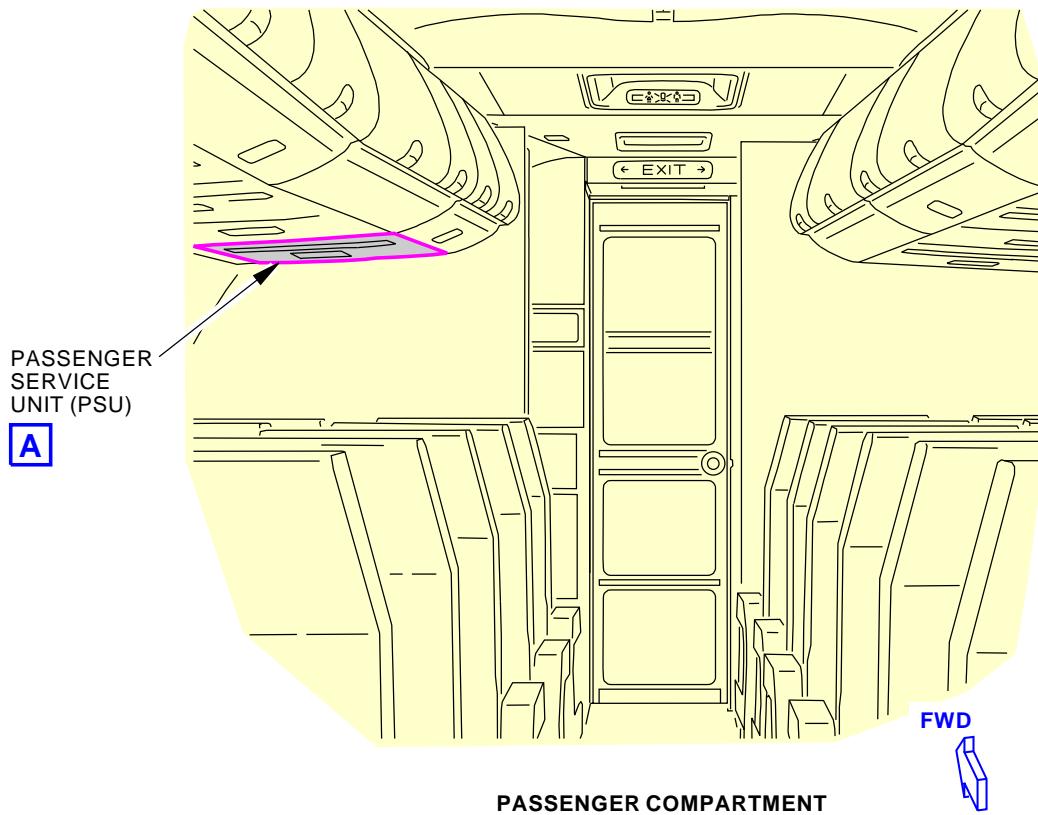
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Passenger and Lavatory Call Lights
Figure 201/33-27-00-990-804 (Sheet 2 of 2)

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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
A	8	C01403	PASSENGER CABIN PASS CALL LEFT
B	8	C01404	PASSENGER CABIN PASS CALL RIGHT

— END OF TASK —

TASK 33-27-00-960-804

4. 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

EFFECTIVITY
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(Continued)

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
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].
- Use a diagonal or side wire cutter, STD-8416 if necessary to remove the adhesive that secures the call light [1] to the PSU.
 - Disconnect the connector [2] from the PSU.
 - Remove the call light [1].
 - Remove the lens [3].

SUBTASK 33-27-00-420-001

- (2) Install the new call light [1].
- Insert the lens [3] into the PSU from the cabin side.
 - Insert the washer of the call light [1] onto the lens [3] from the component side of the PSU.
 - Align the key on the lens holder of the call light [1] with the slot on the lens [3] and install the parts together.
 - Apply two drops of adhesive, A00028 to secure the lens holder to the washer of the call light [1].
 - If necessary, use a clean cloth to remove the adhesive from the PSU.
 - 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].

- At PSU, set the call switch to the on mode.
 - Make sure that the new call light [1] comes on.
- Set the call switch to the off mode.
 - Make sure that the new call light [1] goes off.



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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.

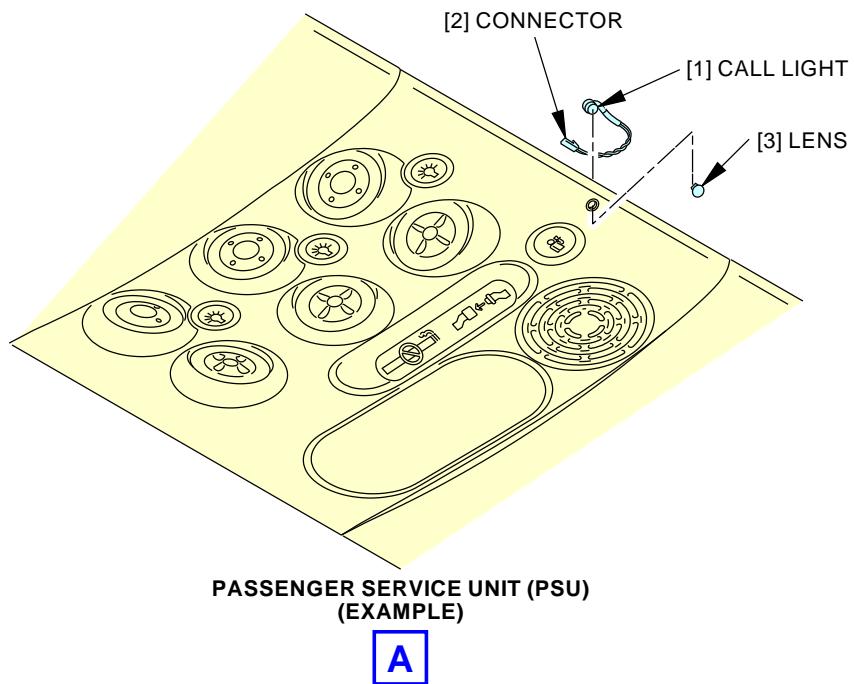
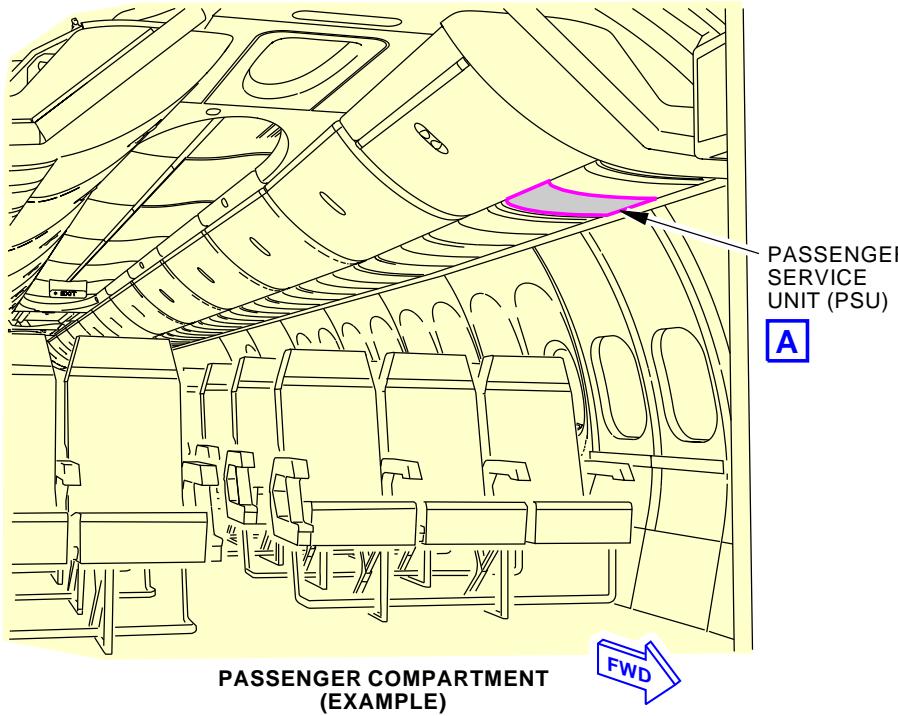
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Passenger Call Light - PSU LED Call Light Replacement
Figure 202/33-27-00-990-803

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TASK 33-27-00-960-802

5. Lavatory Call Light - Light/Switch Replacement

(Figure 203)

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
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
WDM 33-27-11	Wiring Diagram Manual

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Procedure

SUBTASK 33-27-00-860-002

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 lamp in the call light/reset switch outside the lavatory:
 - (a) Remove the lens [2].
NOTE: Turn the lens counterclockwise.
 - (b) Replace the lamp [1].
 - 1) Install the lens [2].

SUBTASK 33-27-00-860-003

- (2) Do these steps to replace the call switch in the lavatory:
 - (a) Open the applicable circuit breaker and install the safety tag:

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

- (b) Open the utility door for access to the rear of the switch.
- (c) Loosen the fasteners that hold the switch in its position.
- (d) Disconnect the electrical wires.
- (e) Replace the switch.
- (f) Connect the electrical wires to the new switch.
- (g) Install the switch and tighten its fasteners.
- (h) Close the utility door.



33-27-00



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- (i) 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	8	C01403	PASSENGER CABIN PASS CALL LEFT
B	8	C01404	PASSENGER CABIN PASS CALL RIGHT

SUBTASK 33-27-00-860-004

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

SUBTASK 33-27-00-710-001

- (4) Do a test of the new call light/switch:

- (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.
- (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.

SUBTASK 33-27-00-860-005

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

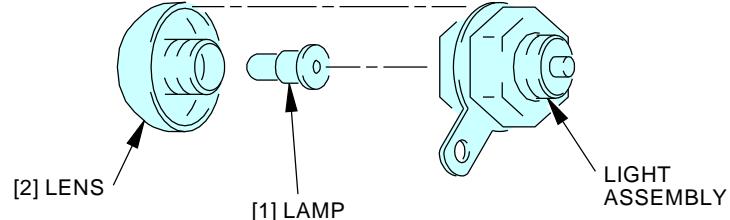
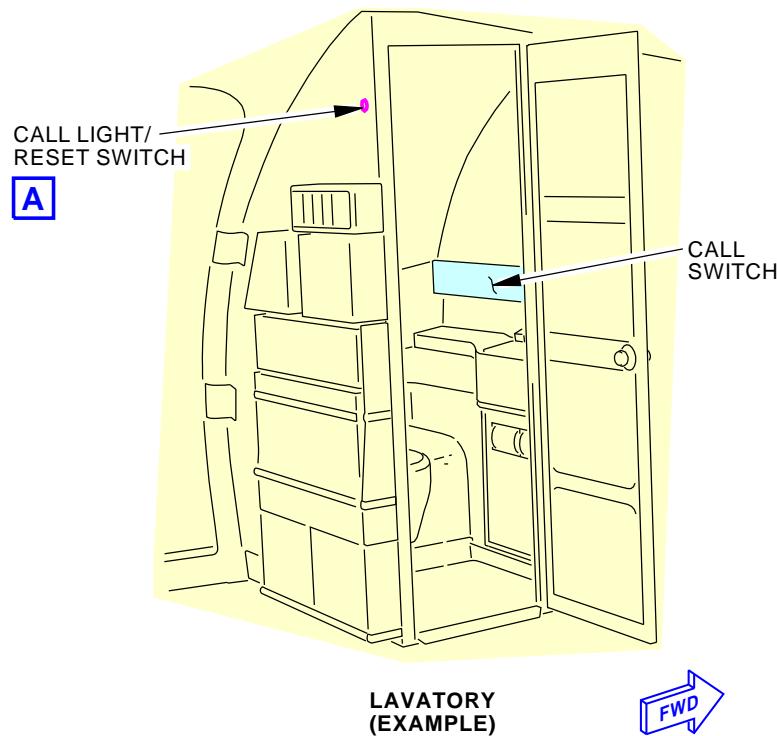
———— END OF TASK ————

EFFECTIVITY
AKS ALL

33-27-00



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CALL LIGHT/RESET SWITCH
(EXAMPLE)

A

F88582 S0006576087_V2

Lavatory Call Light - Light/Switch Replacement
Figure 203/33-27-00-990-802

EFFECTIVITY
AKS ALL

33-27-00

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ENTRY LIGHTS - MAINTENANCE PRACTICES

1. **General**

- A. This procedure has these tasks:
- (1) Entry Light - Dim Entry LED Light Assembly Replacement

TASK 33-29-00-960-805

2. **Entry Light - Dim Entry LED Light Assembly Replacement**

A. **References**

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

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]:
 - (a) Lower the applicable panel to get access to the dim entry light assembly [41].
 - (b) Disconnect the connector [44] from the dim entry light assembly [41].
 - (c) 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].
 - (d) Remove the housing [45] from the ceiling panel.
 - (e) 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:
 - (a) Push the clips to remove the retainer [43] and gasket [42] from the housing [45].
 - (b) Slide the housing [45] through the ceiling panel mounting hole.
 - (c) Place the gasket [42] and retainer [43] on the housing [45].
 - (d) Carefully push the lens and retainer [43] together until the clips latch the housing [45] to the retainer [43].
 - (e) Connect the electrical connector [44] to the dim entry light assembly [41].

SUBTASK 33-29-00-860-017

- (4) Make sure external electrical power is supplied to the airplane. If it is necessary, do this task:
Supply External Power, TASK 24-22-00-860-813.

EFFECTIVITY
AKS ALL

33-29-00

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SUBTASK 33-29-00-710-005

- (5) Do a test of the dim entry light assembly [41]:
(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) At the overhead panel, P5, set the BAT switch to the ON mode.
(c) Make sure the light comes on.
NOTE: The light is energized by the 28 volt dc hot battery bus.
(d) Set the BAT switch to the usual mode.
(e) Make sure the light goes off.

SUBTASK 33-29-00-860-018

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

———— END OF TASK ————

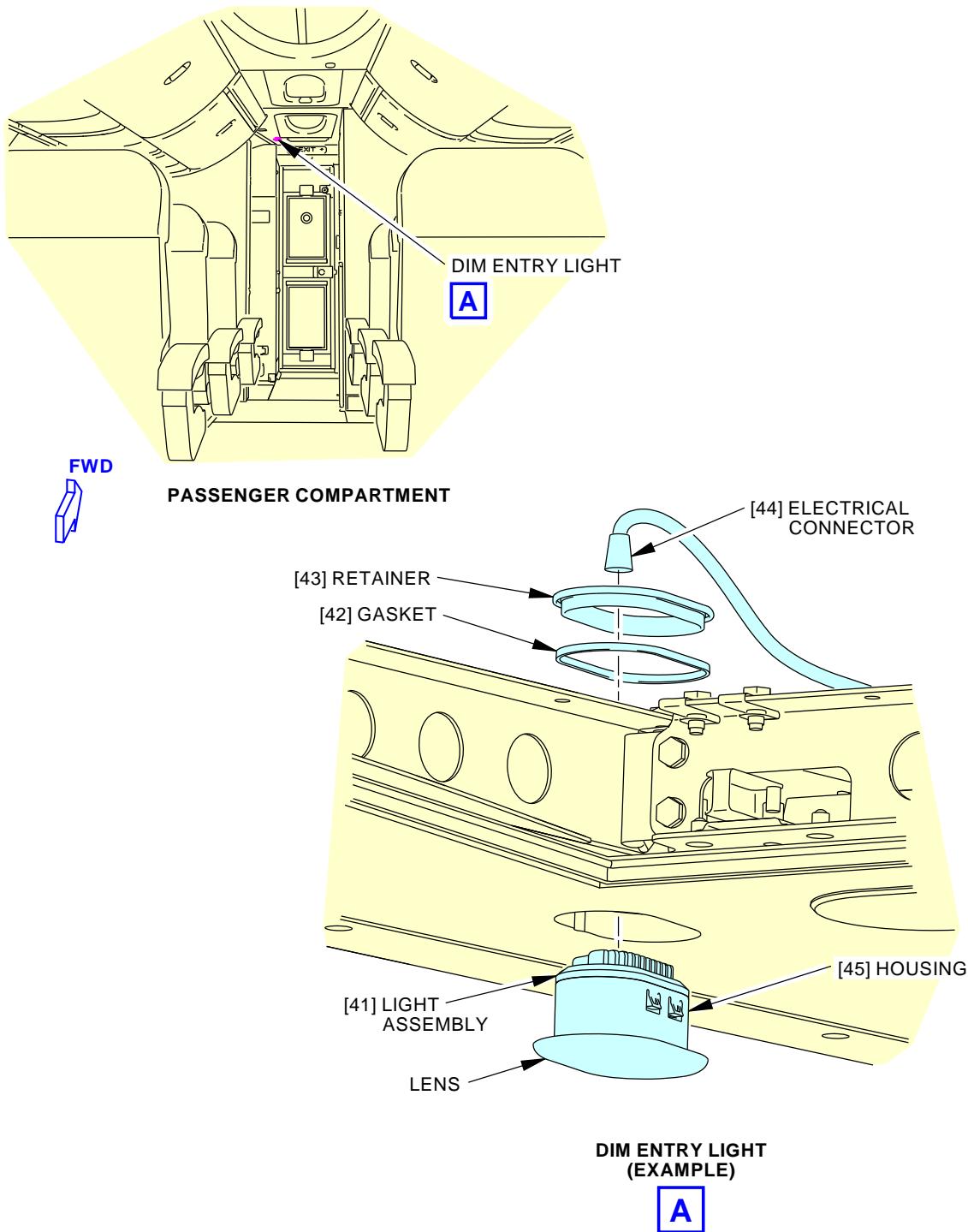
EFFECTIVITY
AKS ALL

33-29-00

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DIM ENTRY LIGHT
(EXAMPLE)

A

1983232 S0000383157_V2

Entry Light - Dim Entry Light Assembly Replacement
Figure 201/33-29-00-990-803

EFFECTIVITY
AKS ALL

33-29-00



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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 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
117	Electrical and Electronics Compartment - Left
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. Procedure

SUBTASK 33-32-00-010-001

- (1) Open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 33-32-00-860-006

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

Row	Col	Number	Name
C	2	C00125	WHEEL WELL LT

EFFECTIVITY
AKS ALL

33-32-00



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E. Wheel Well Lights - Tryout

NOTE: This tryout is to make sure the Wheel Well Lights are in a zero energy stage.

SUBTASK 33-32-00-860-007

- (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 33-32-00-700-001

- (2) Do the following steps for the Wheel Well Lights:

- (a) At the overhead panel, P5, set the wheel well lights switch to the ON mode.
- 1) Make sure the NLG wheel well light does not come on.
 - 2) Make sure none of the MLG wheel well lights come on.

———— END OF TASK ————

EFFECTIVITY
AKS ALL

33-32-00

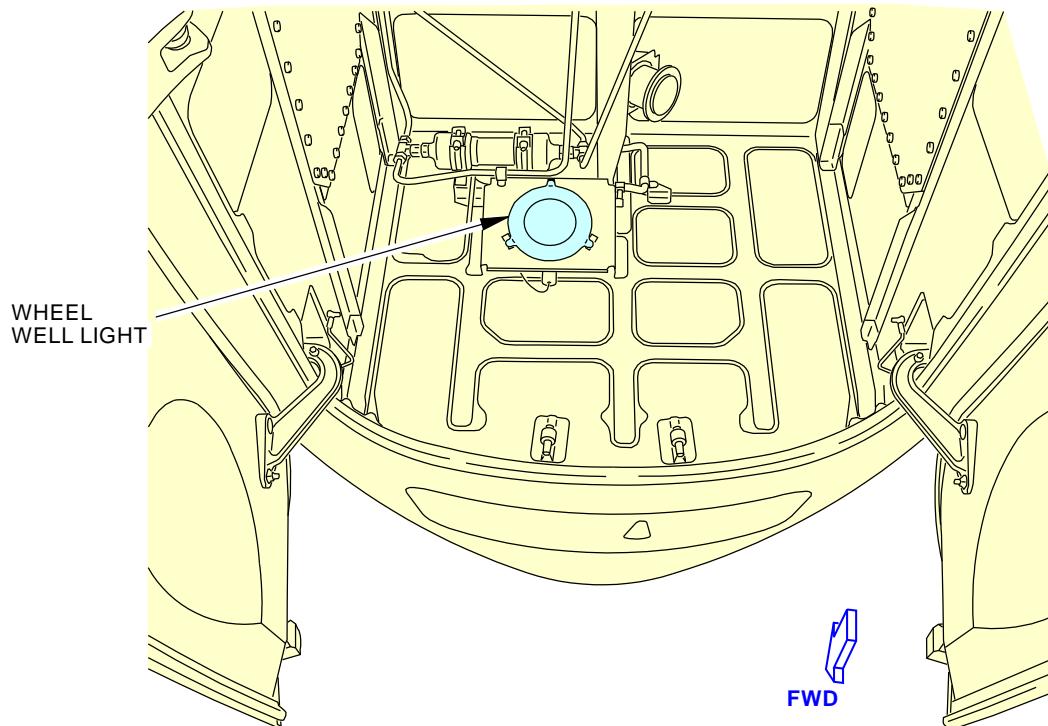
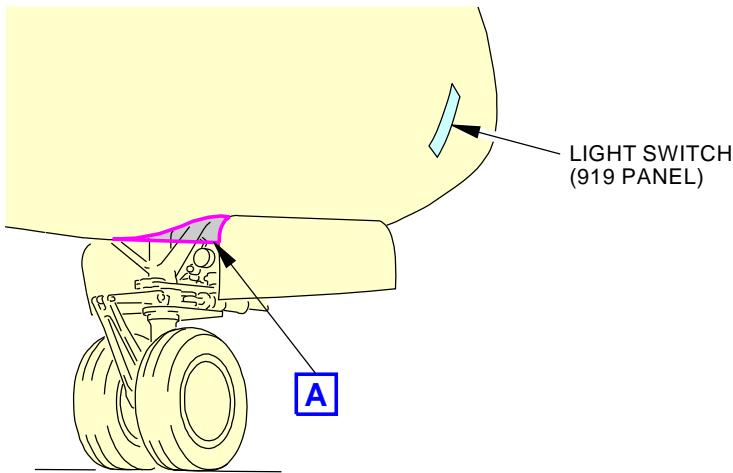
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VIEW THROUGH THE NOSE LANDING GEAR WHEEL WELL

A

2383164 S0000543841_V1

Wheel Well Lights
Figure 201/33-32-00-990-802 (Sheet 1 of 3)

EFFECTIVITY
AKS ALL

33-32-00

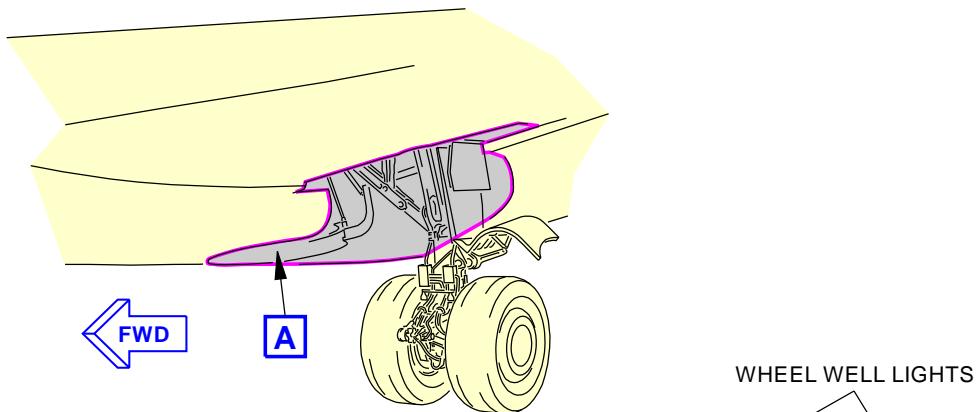
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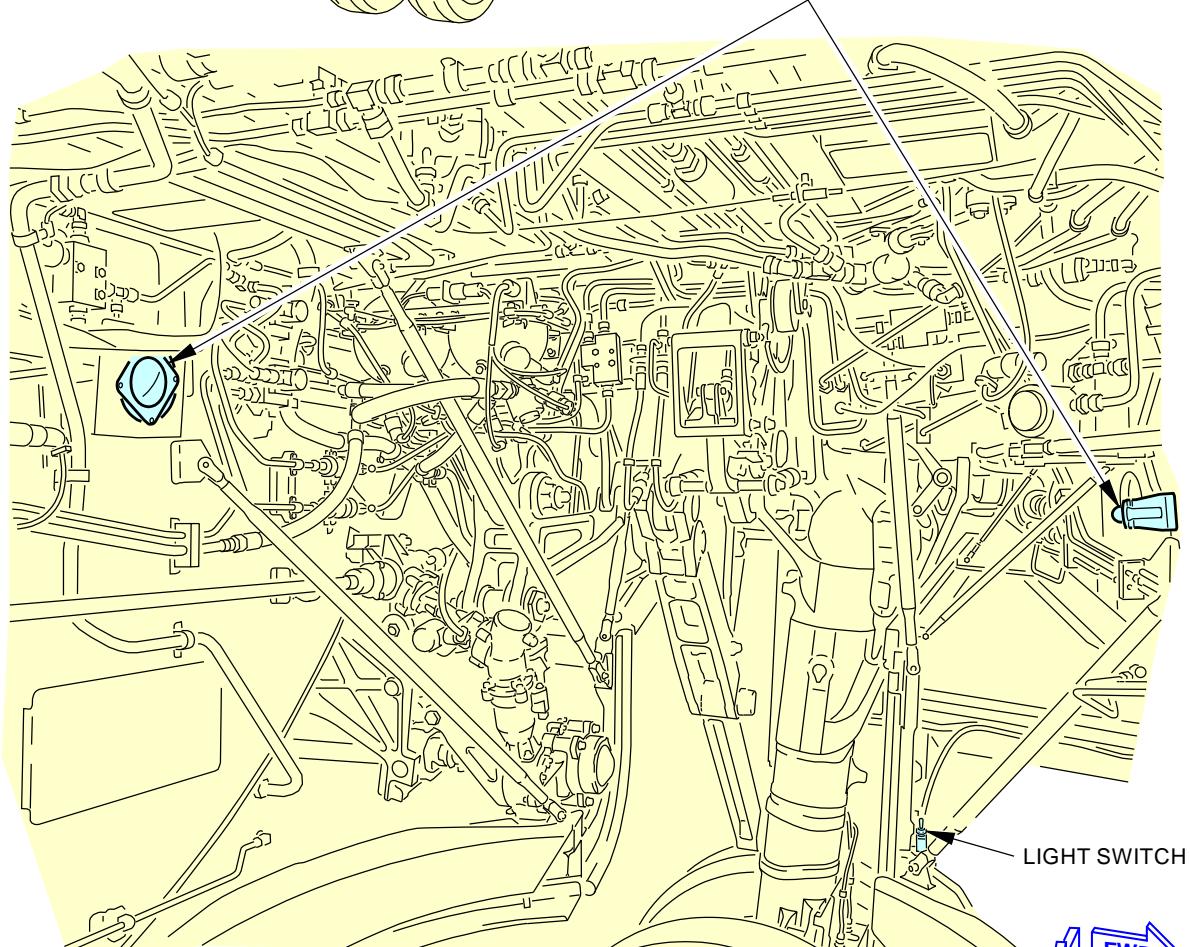
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WHEEL WELL LIGHTS



MAIN LANDING GEAR WHEEL WELL
(LEFT SIDE)

A

2383180 S0000543864_V1

Wheel Well Lights
Figure 201/33-32-00-990-802 (Sheet 2 of 3)

EFFECTIVITY
AKS ALL

33-32-00

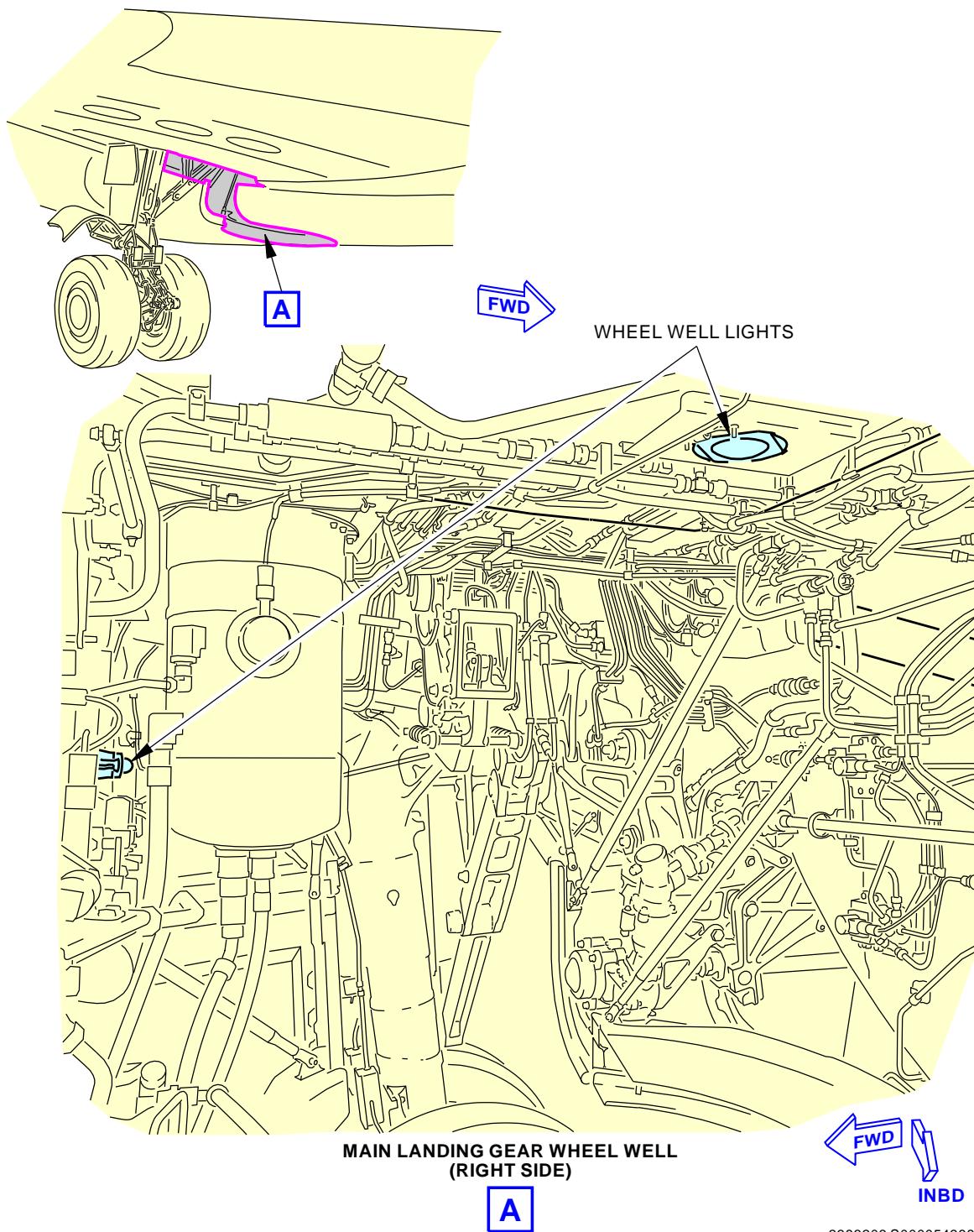
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2383203 S0000543880_V1

Wheel Well Lights
Figure 201/33-32-00-990-802 (Sheet 3 of 3)

EFFECTIVITY
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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
117	Electrical and Electronics Compartment - Left
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. Procedure

SUBTASK 33-32-00-860-008

WARNING: DO NOT TOUCH THE CONDUCTORS IN THE P91 AND P92 PANELS. BE CAREFUL WHEN YOU GET ACCESS TO THE CIRCUIT BREAKERS ON THE INNER SIDE OF THE P91 AND P92 PANELS (ROW F). IF IT IS POSSIBLE, REMOVE AIRPLANE ELECTRICAL POWER FIRST. THE P91 AND P92 PANELS HAVE HIGH VOLTAGES AND CURRENTS. ELECTRICAL VOLTAGE AND CURRENT CAN KILL YOU OR CAUSE INJURIES.

(1)

Remove the safety tag and close this circuit breaker:

Power Distribution Panel Number 2, P92

Row	Col	Number	Name
C	2	C00125	WHEEL WELL LT

SUBTASK 33-32-00-410-002

(2) Close this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

— END OF TASK —

TASK 33-32-00-960-801

4. Wheel Well Light - Lamp Replacement

(Figure 202)

A. References

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

EFFECTIVITY
AKS ALL

33-32-00



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(Continued)

Reference	Title
24-22-00-860-812	Remove Electrical Power (P/B 201)
WDM 33-32-11	Wiring Diagram Manual

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Lamp	33-30-51-50A-025	AKS 001-016
2	Gasket	33-30-51-50A-020	AKS 001-016

C. 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

D. Procedure

SUBTASK 33-32-00-860-001

- (1) Set the switch for the light to the off mode (WDM 33-32-11):

AKS ALL; AIRPLANES WITH MAIN WHEEL WELL SERVICE LIGHT

- (a) Use the switch on the left wall of the main wheel well.

AKS ALL; AIRPLANES WITH NOSE LANDING GEAR WHEEL WELL SERVICE LIGHT

- (b) Use the switch on the external power receptacle panel, P19.

- 1) For access to the switch, open the P19 access panel.

AKS 001-016

SUBTASK 33-32-00-960-001

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

- (a) Loosen the applicable fasteners [4] or fasteners [8].
 - 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) If the gasket [2] is damaged, replace it.
- (e) Tighten the applicable fasteners [4] or fasteners [8].
 - 1) If washers [7] were removed, install them.

AKS 017-999

SUBTASK 33-32-00-960-002

- (3) Do these steps to replace the lens assembly:

- (a) Loosen the applicable fasteners [4].
 - 1) If washers [7] are installed, remove them.
- (b) Loosen the nut [10] from the jumper cable.

EFFECTIVITY

AKS ALL

33-32-00



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AKS 017-999 (Continued)

- 1) If washer [7] is installed, remove it.
- (c) Replace the applicable lens assembly [9].
- (d) Tighten the nut [10] on the jumper cable.
 - 1) If washer [7] was removed, install it.
- (e) Tighten the applicable fasteners [4].
 - 1) If washers [7] were removed, install them.

AKS ALL

SUBTASK 33-32-00-860-002

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

SUBTASK 33-32-00-710-001

- (5) Do a test of the new lamp:
 - (a) 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 33-32-00-410-001

- (6) Close the P19 access panel, if it was opened.

SUBTASK 33-32-00-860-003

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

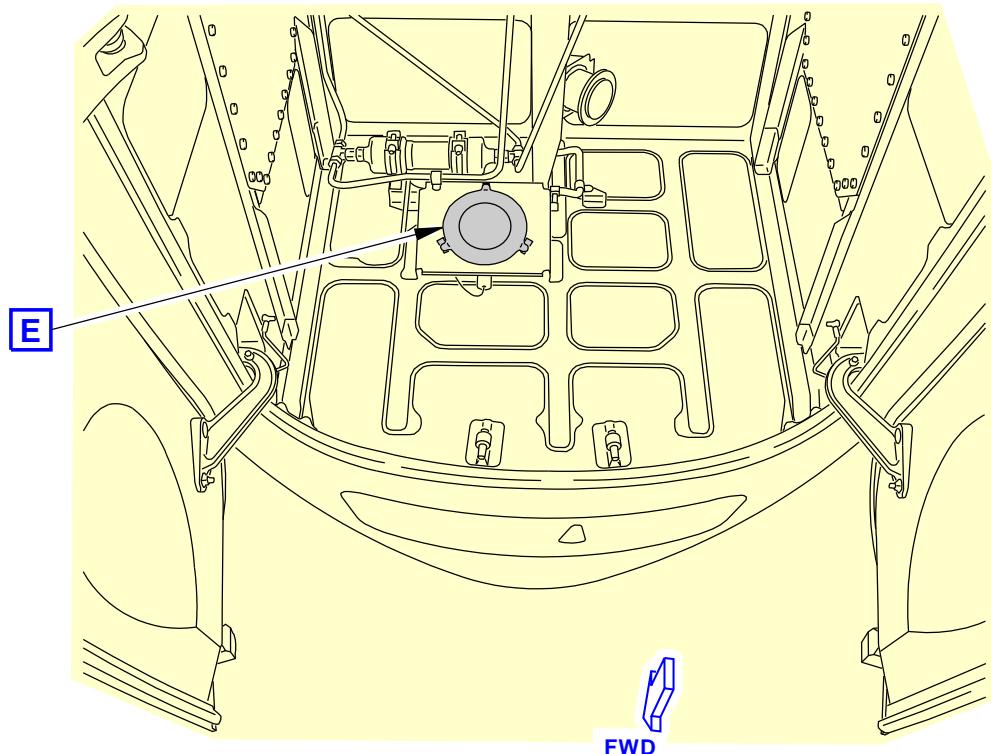
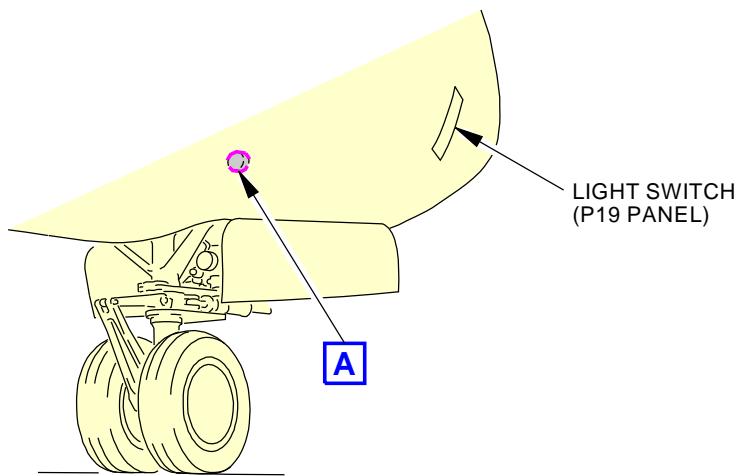
———— END OF TASK ————

EFFECTIVITY
AKS ALL

33-32-00

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VIEW THROUGH THE NOSE LANDING GEAR WHEEL WELL

A

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**Wheel Well Light - Lamp Replacement
Figure 202/33-32-00-990-801 (Sheet 1 of 5)**

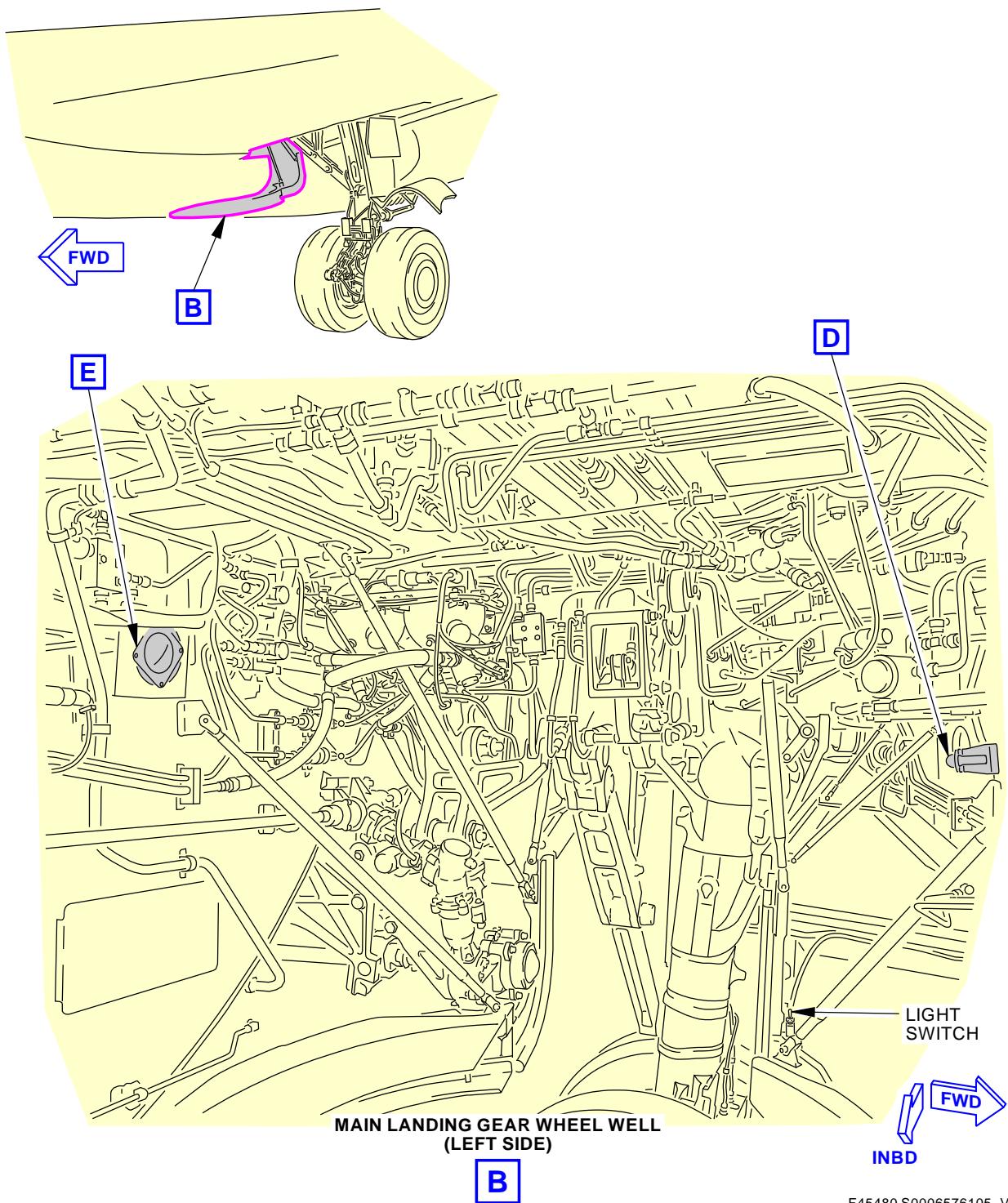
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AKS ALL

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Wheel Well Light - Lamp Replacement
Figure 202/33-32-00-990-801 (Sheet 2 of 5)

EFFECTIVITY
AKS 001-016

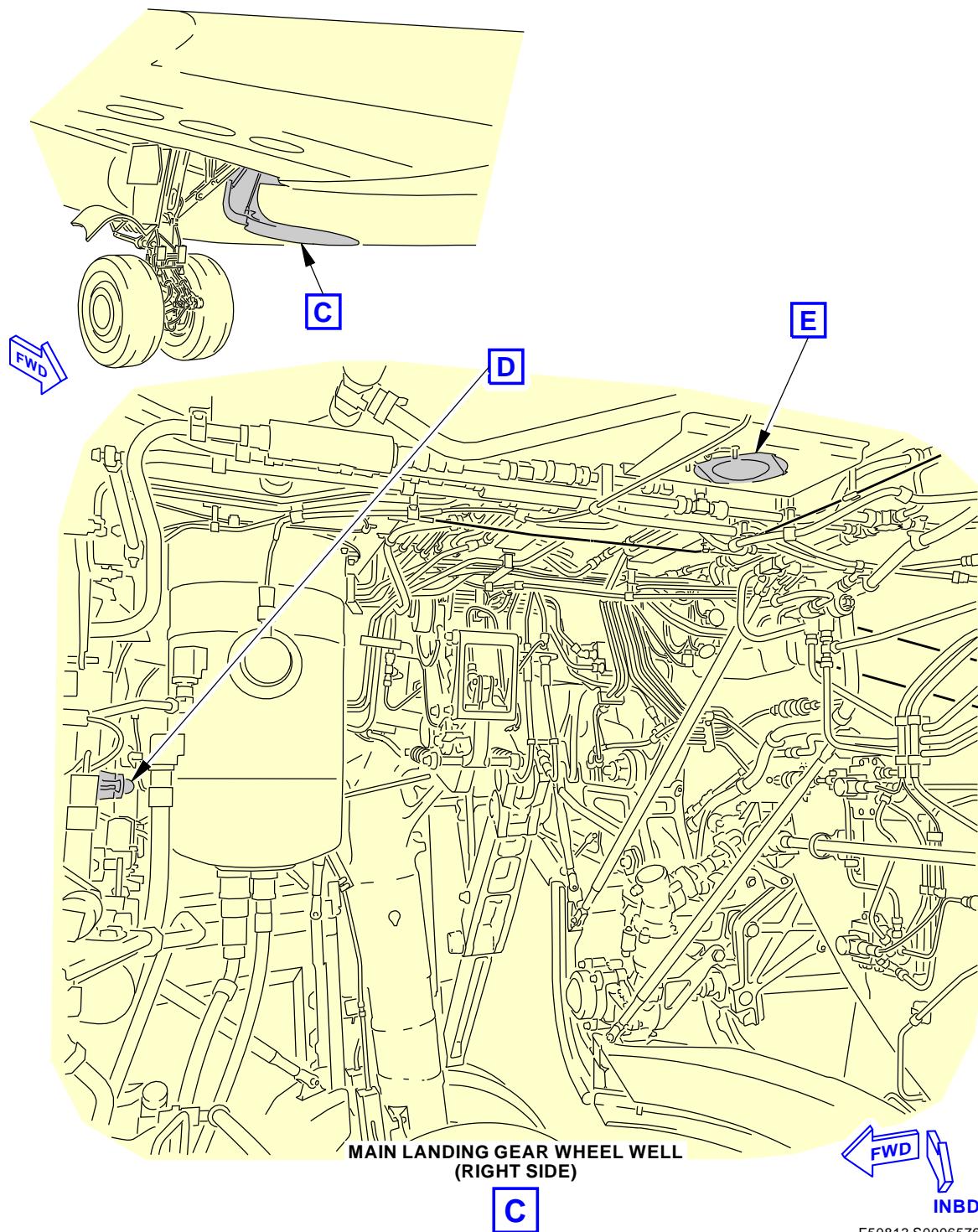
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Wheel Well Light - Lamp Replacement
Figure 202/33-32-00-990-801 (Sheet 3 of 5)

EFFECTIVITY
AKS 001-016

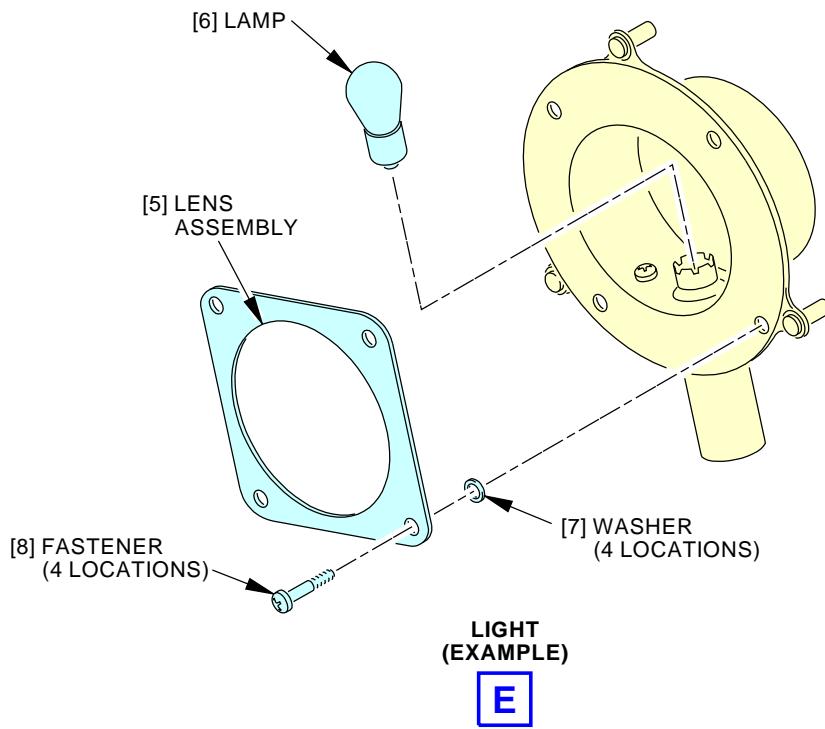
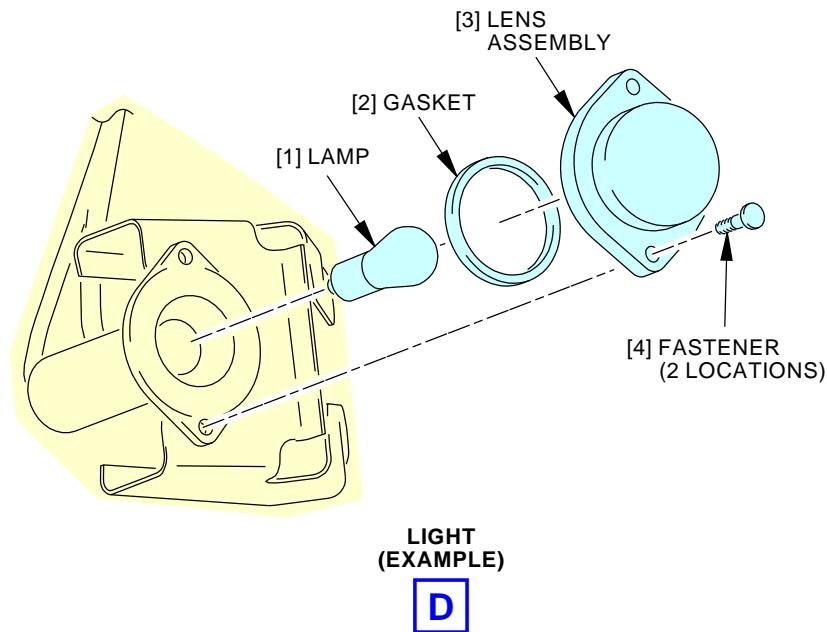
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Wheel Well Light - Lamp Replacement
Figure 202/33-32-00-990-801 (Sheet 4 of 5)

EFFECTIVITY
AKS 001-016

33-32-00

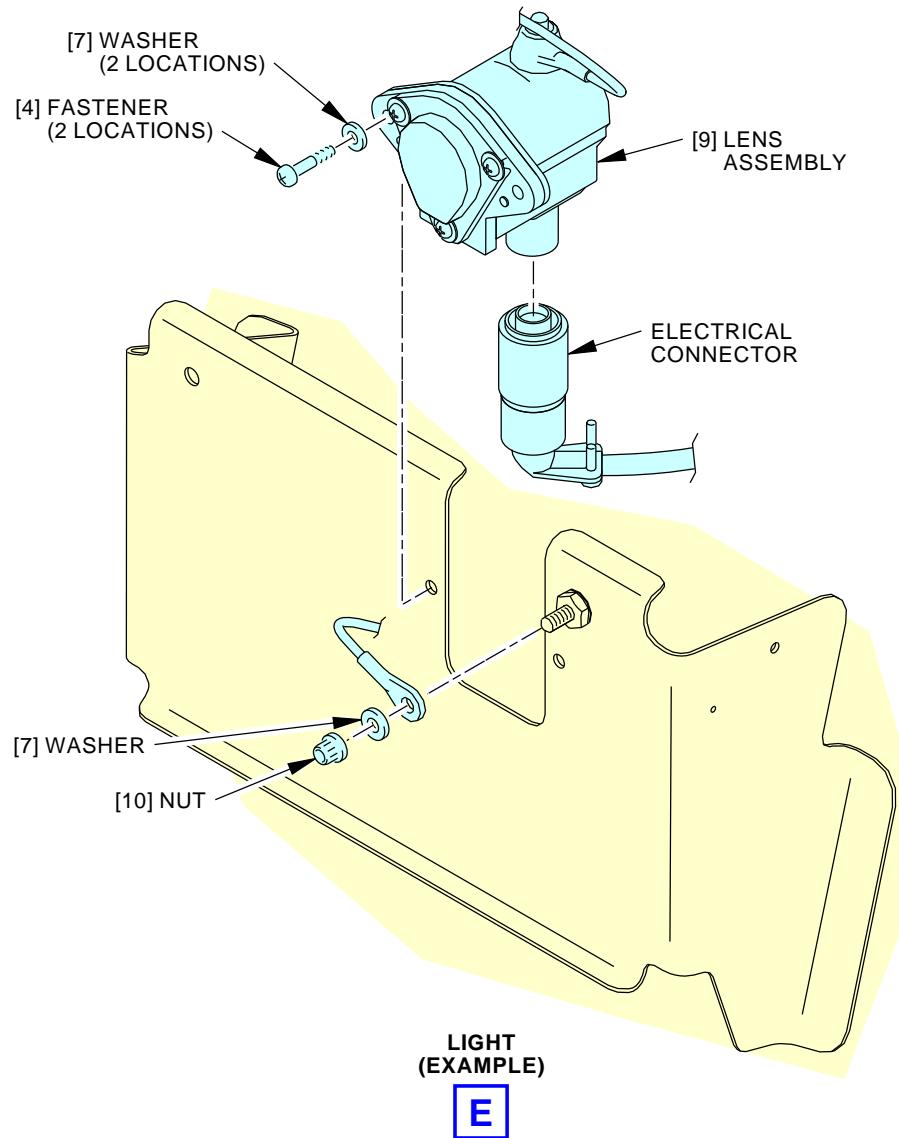
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Wheel Well Light - Lamp Replacement
Figure 202/33-32-00-990-801 (Sheet 5 of 5)

EFFECTIVITY
AKS 017-999

33-32-00

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TASK 33-32-00-710-801

5. 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.
 - 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
AKS ALL

33-32-00

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AIRCRAFT MAINTENANCE MANUAL

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 systems (ECS) bay.

B. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
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

Number	Name/Location
117A	Electronic Equipment Access Door
192CL	ECS Access Door
192CR	ECS Access Door
192JL	Air Conditioning Panel - Aft
192JR	Air Conditioning Panel - Aft

D. Procedure

SUBTASK 33-33-00-010-004

- (1) Open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door



33-33-00



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SUBTASK 33-33-00-860-004

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 these access panels:

<u>Number</u>	<u>Name/Location</u>
192CL	ECS Access Door
192CR	ECS Access Door

SUBTASK 33-33-00-010-006

- (4) Open these access panels:

<u>Number</u>	<u>Name/Location</u>
192JL	Air Conditioning Panel - Aft
192JR	Air Conditioning Panel - Aft

E. Air Conditioning Compartment Lights - Tryout

NOTE: This tryout is to make sure the Air Conditioning Compartment Lights are in a zero energy stage.

SUBTASK 33-33-00-860-005

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 33-33-00-700-001

- (2) 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.

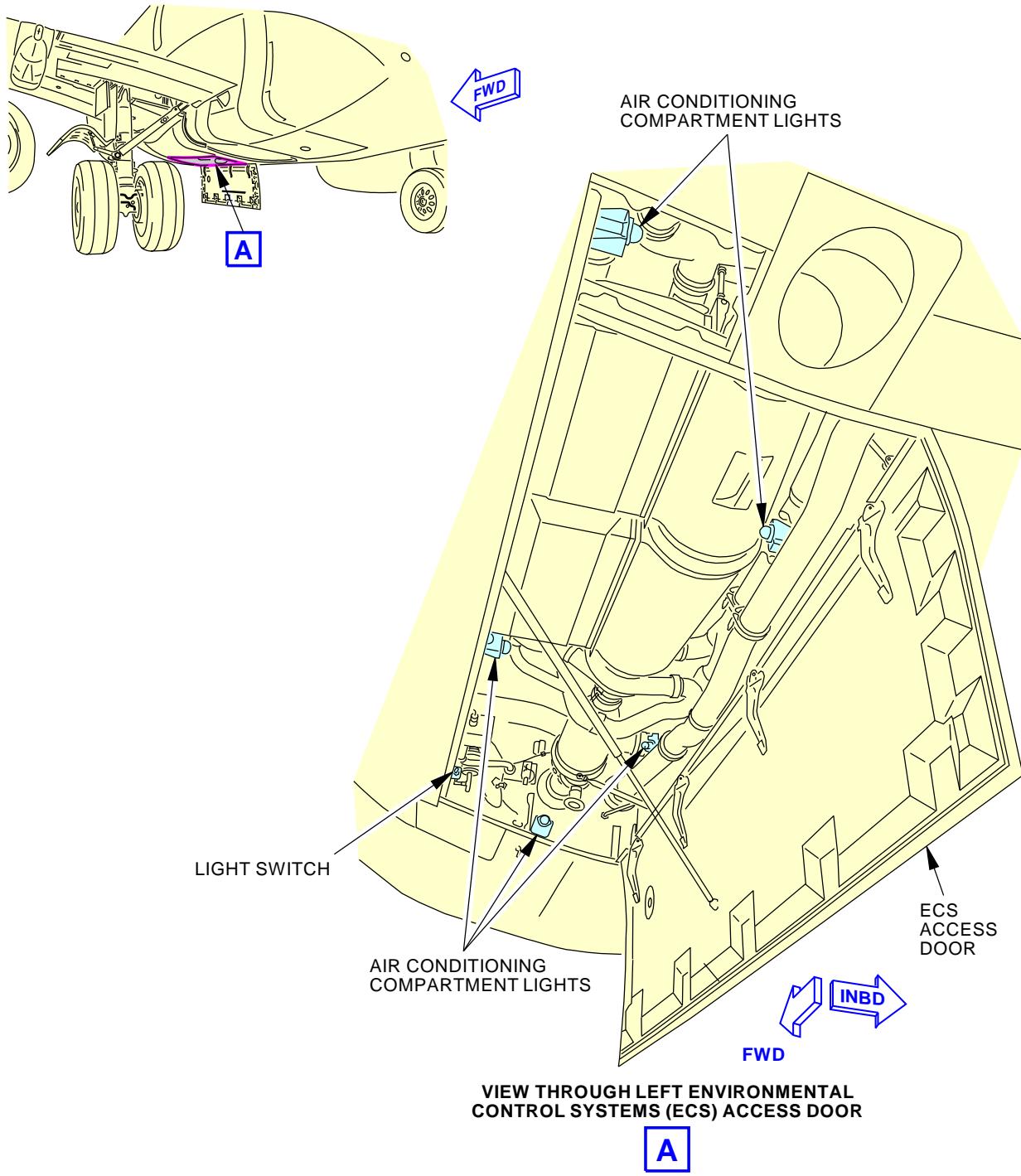
———— END OF TASK ————

EFFECTIVITY
AKS ALL

33-33-00



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AIRCRAFT MAINTENANCE MANUAL



2383217 S0000544021_V1

Air Conditioning Compartment Lights
Figure 201/33-33-00-990-802 (Sheet 1 of 2)

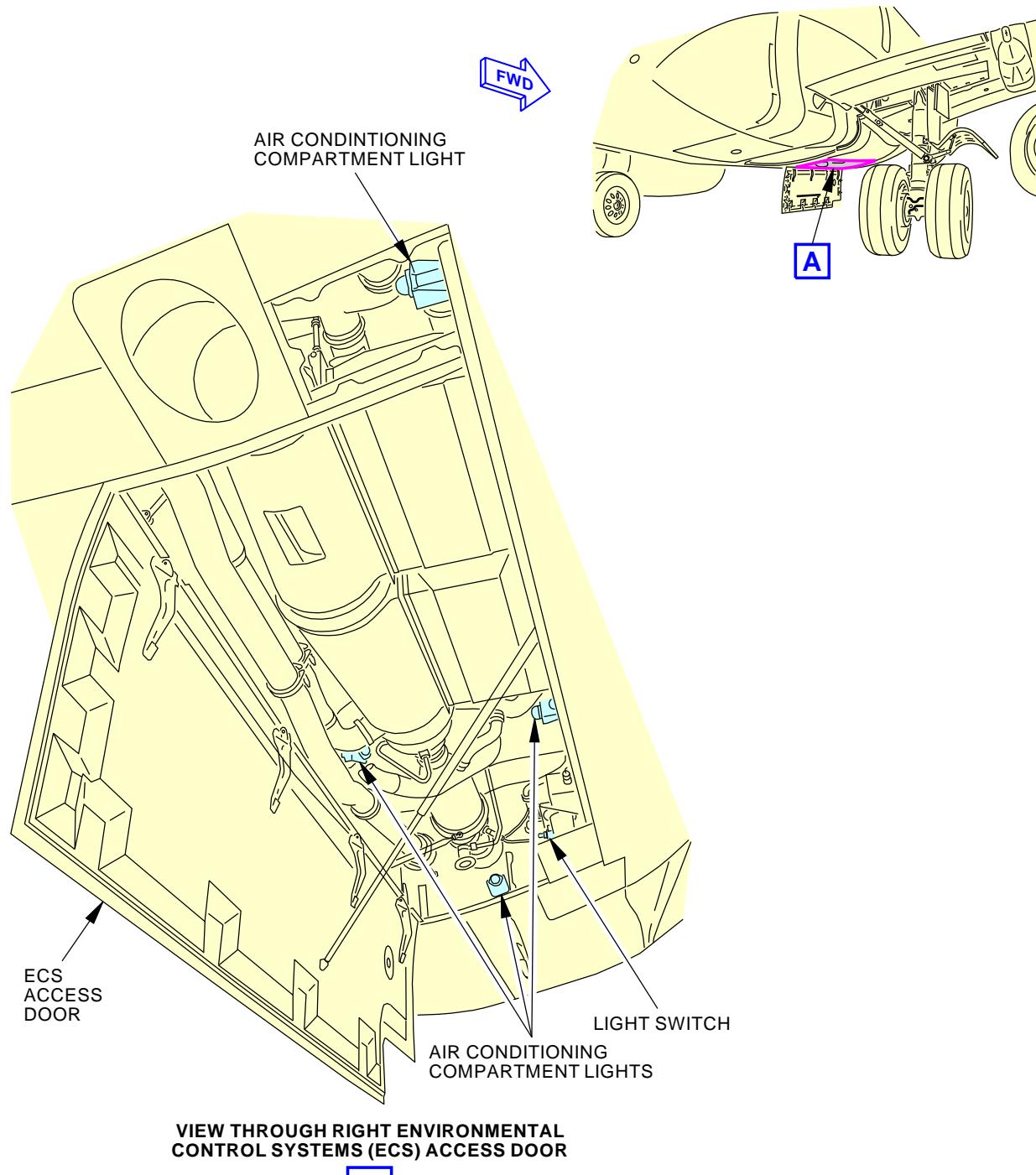
EFFECTIVITY
AKS ALL

33-33-00

D633A101-AKS

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2383240 S0000544025_V2

Air Conditioning Compartment Lights
Figure 201/33-33-00-990-802 (Sheet 2 of 2)

EFFECTIVITY
AKS ALL

33-33-00

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AIRCRAFT MAINTENANCE MANUAL

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

Zone	Area
117	Electrical and Electronics Compartment - Left
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

Number	Name/Location
117A	Electronic Equipment Access Door

D. Procedure

SUBTASK 33-33-00-860-006

WARNING: DO NOT TOUCH THE CONDUCTORS IN THE P91 AND P92 PANELS. BE CAREFUL WHEN YOU GET ACCESS TO THE CIRCUIT BREAKERS ON THE INNER SIDE OF THE P91 AND P92 PANELS (ROW F). IF IT IS POSSIBLE, REMOVE AIRPLANE ELECTRICAL POWER FIRST. THE P91 AND P92 PANELS HAVE HIGH VOLTAGES AND CURRENTS. ELECTRICAL VOLTAGE AND CURRENT CAN KILL YOU OR CAUSE INJURIES.

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

Power Distribution Panel Number 2, P92

Row	Col	Number	Name
C	3	C00126	AIR COND COMPT LT

SUBTASK 33-33-00-410-002

- (2) Close this access panel:

Number **Name/Location**

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

———— END OF TASK ————

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 systems (ECS) bay.

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
AKS ALL

33-33-00



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

(Continued)

Reference	Title
WDM 33-33-11	Wiring Diagram Manual

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Lamp	33-30-51-50A-025	AKS 001-016
2	Gasket	33-30-51-50A-020	AKS 001-016

D. Location Zones

Zone	Area
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

E. Access Panels

Number	Name/Location
192CL	ECS Access Door
192CR	ECS Access Door
192JL	Air Conditioning Panel - Aft
192JR	Air Conditioning Panel - Aft

F. Procedure

SUBTASK 33-33-00-010-001

- (1) Open the applicable access door to the Environmental Control Systems (ECS) Bay:
For the left side,

Number	Name/Location
192CL	ECS Access Door

For the right side,

Number	Name/Location
192CR	ECS Access Door

SUBTASK 33-33-00-010-002

- (2) If the light assembly is installed aft of the ECS access doors, also open the applicable access panel:

For the left side,

Number	Name/Location
192JL	Air Conditioning Panel - Aft

For the right side,

Number	Name/Location
192JR	Air Conditioning Panel - Aft

SUBTASK 33-33-00-860-001

- (3) On the forward end of the ECS bay, set the switch for the light to the off mode (WDM 33-33-11).

AKS 001-016

SUBTASK 33-33-00-960-001

- (4) Do these steps to replace the lamp:
 - (a) Loosen the fasteners [4].

EFFECTIVITY
AKS ALL

33-33-00



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

AKS 001-016 (Continued)

- (b) Remove the lens assembly [3].
- (c) Replace the lamp [1].
- (d) Install the lens assembly [3].
 - 1) Check the gasket [2].
 - 2) If the gasket [2] is damaged, replace it.
- (e) Tighten the fasteners [4].

AKS 017-999

SUBTASK 33-33-00-960-002

- (5) Do these steps to replace the lens assembly:
 - (a) Loosen the fasteners [4].
 - 1) If washers [6] are installed, remove them.
 - (b) Loosen the nut [7] from the jumper cable.
 - 1) If washer [6] is installed, remove it.
 - (c) Replace the lens assembly [5].
 - (d) Tighten the nut [7] on the jumper cable.
 - 1) If washer [6] was removed, install it.
 - (e) Tighten the fasteners [4].
 - 1) If washers [6] were removed, install them.

AKS ALL

SUBTASK 33-33-00-860-002

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

SUBTASK 33-33-00-710-001

- (7) 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

- (8) Close the access door that was opened:

<u>Number</u>	<u>Name/Location</u>
192CL	ECS Access Door
192CR	ECS Access Door

SUBTASK 33-33-00-010-003

- (9) Close the access panel, if opened:

<u>Number</u>	<u>Name/Location</u>
192JL	Air Conditioning Panel - Aft
192JR	Air Conditioning Panel - Aft



33-33-00



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AIRCRAFT MAINTENANCE MANUAL

SUBTASK 33-33-00-860-003

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

———— END OF TASK ——

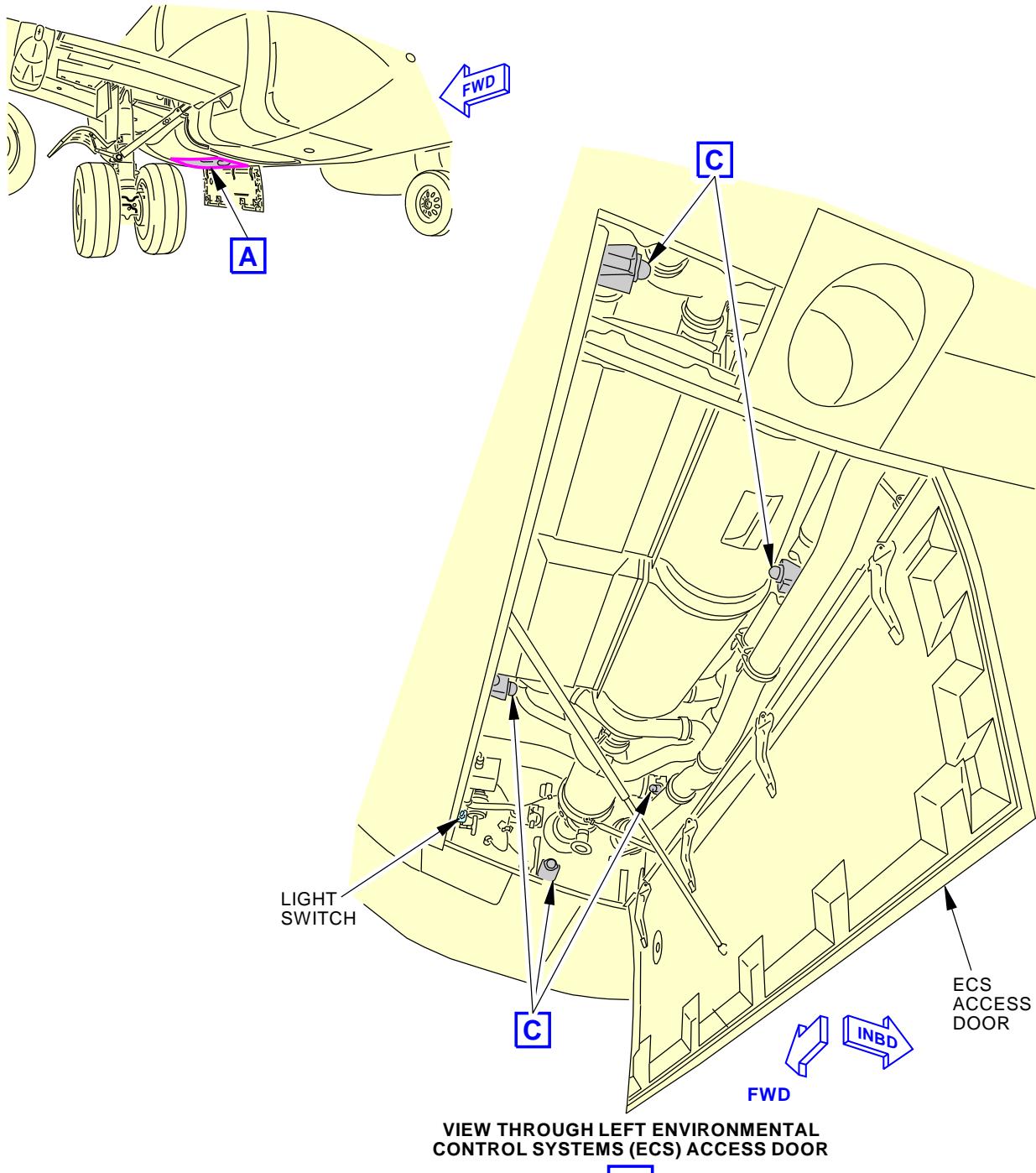
EFFECTIVITY
AKS ALL

33-33-00

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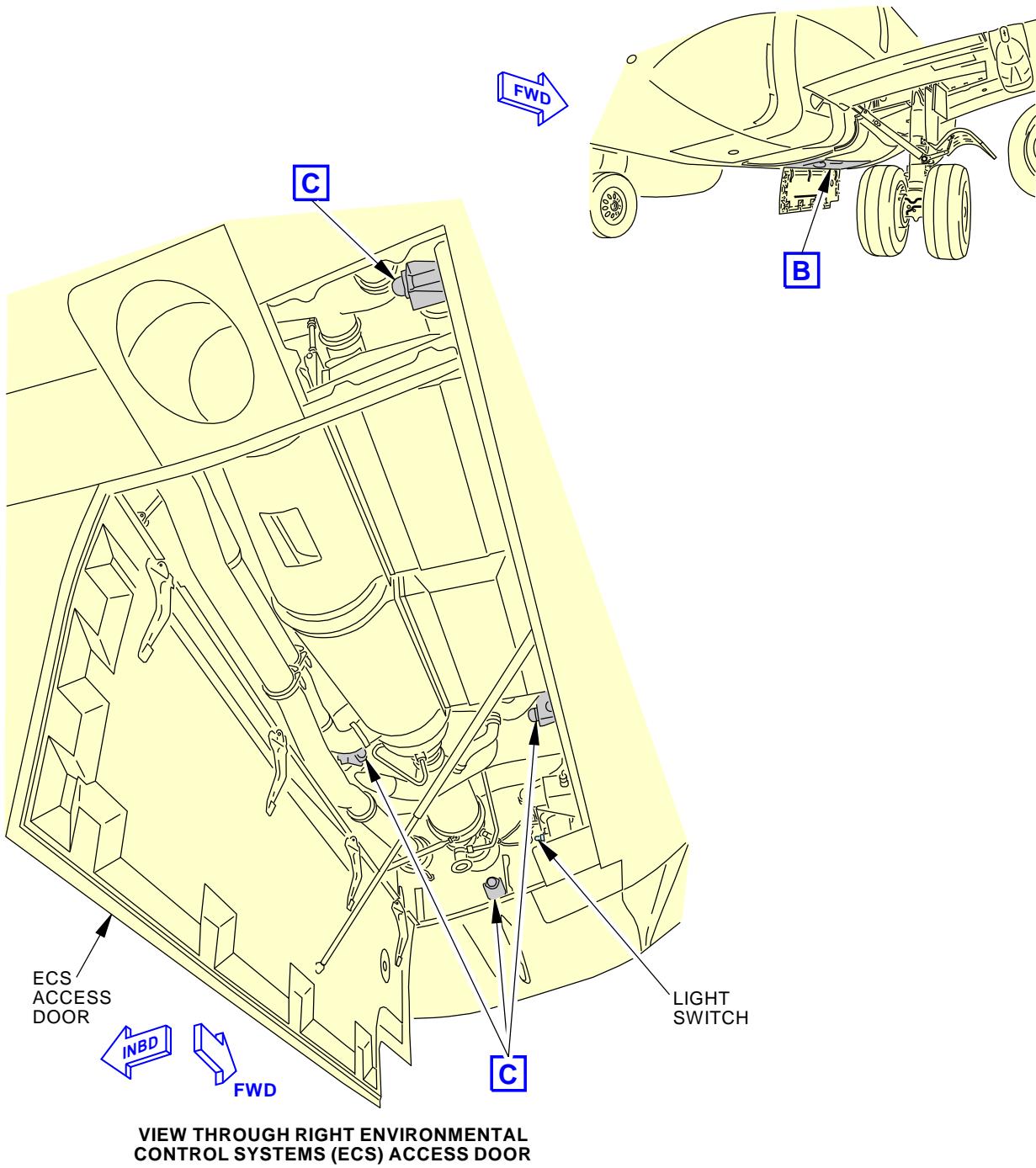
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Air Conditioning Compartment Light - Lamp Replacement
Figure 202/33-33-00-990-801 (Sheet 1 of 4)

EFFECTIVITY
AKS ALL

33-33-00

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Air Conditioning Compartment Light - Lamp Replacement
Figure 202/33-33-00-990-801 (Sheet 2 of 4)

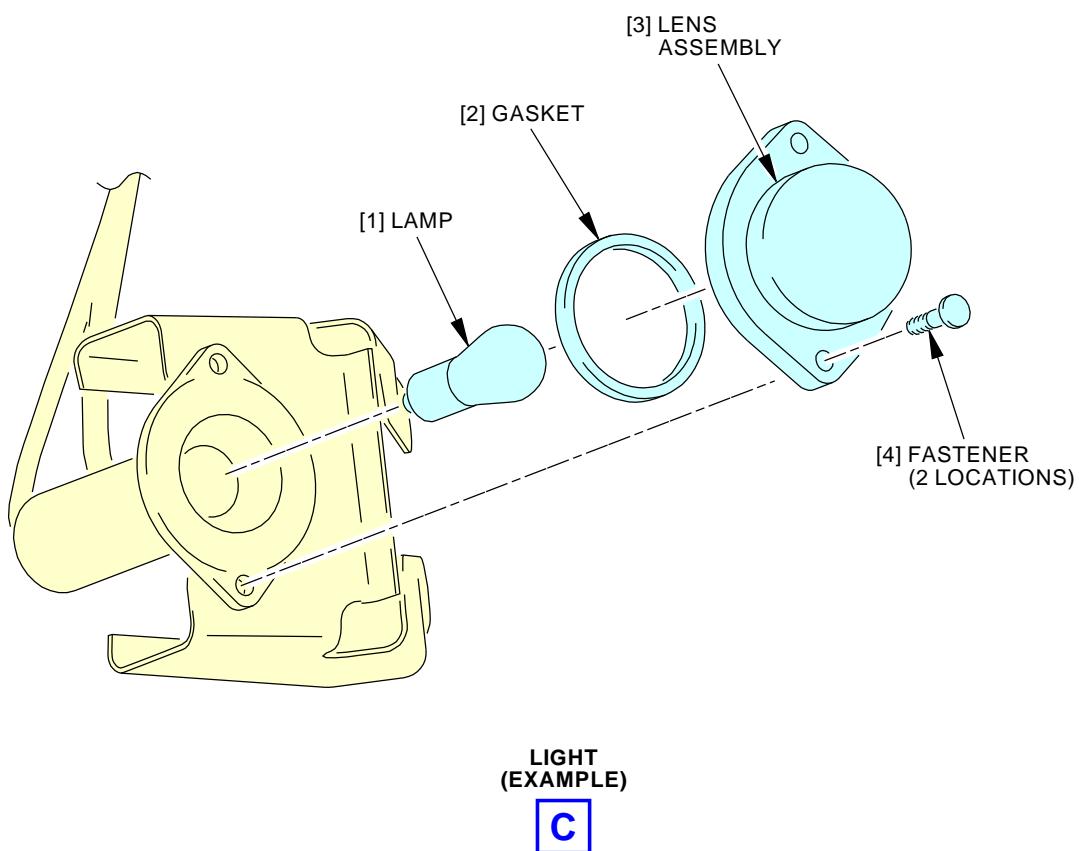
EFFECTIVITY
 AKS ALL

33-33-00

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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
AKS 001-016

33-33-00

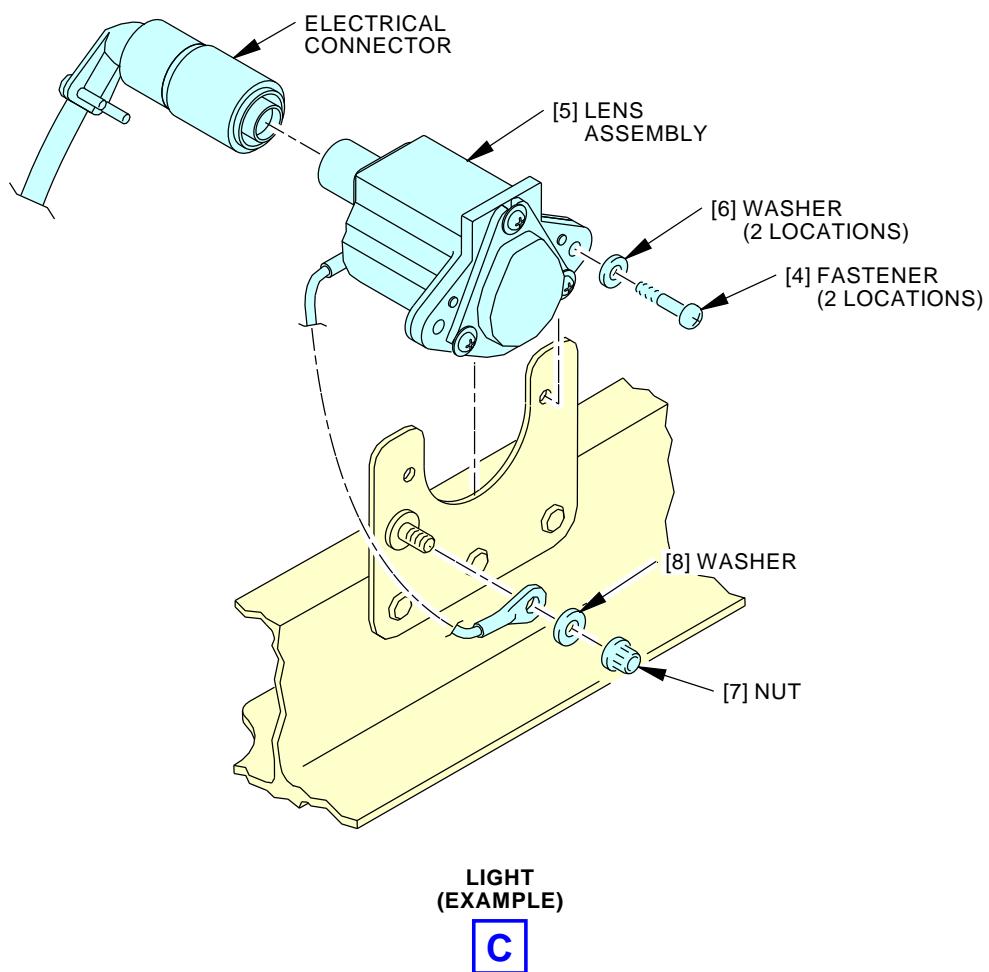
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AIRCRAFT MAINTENANCE MANUAL



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Air Conditioning Compartment Light - Lamp Replacement
Figure 202/33-33-00-990-801 (Sheet 4 of 4)

EFFECTIVITY
AKS 017-999

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AIRCRAFT MAINTENANCE MANUAL

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.

AKS 001-016

- (3) Electronic Equipment Compartment Light Lamp Replacement.

AKS 017-999

- (4) Electronic Equipment Compartment LED Light Assembly Replacement.

AKS 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. Procedure

SUBTASK 33-34-00-010-003

- (1) Open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door



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AIRCRAFT MAINTENANCE MANUAL

SUBTASK 33-34-00-860-004

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: 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

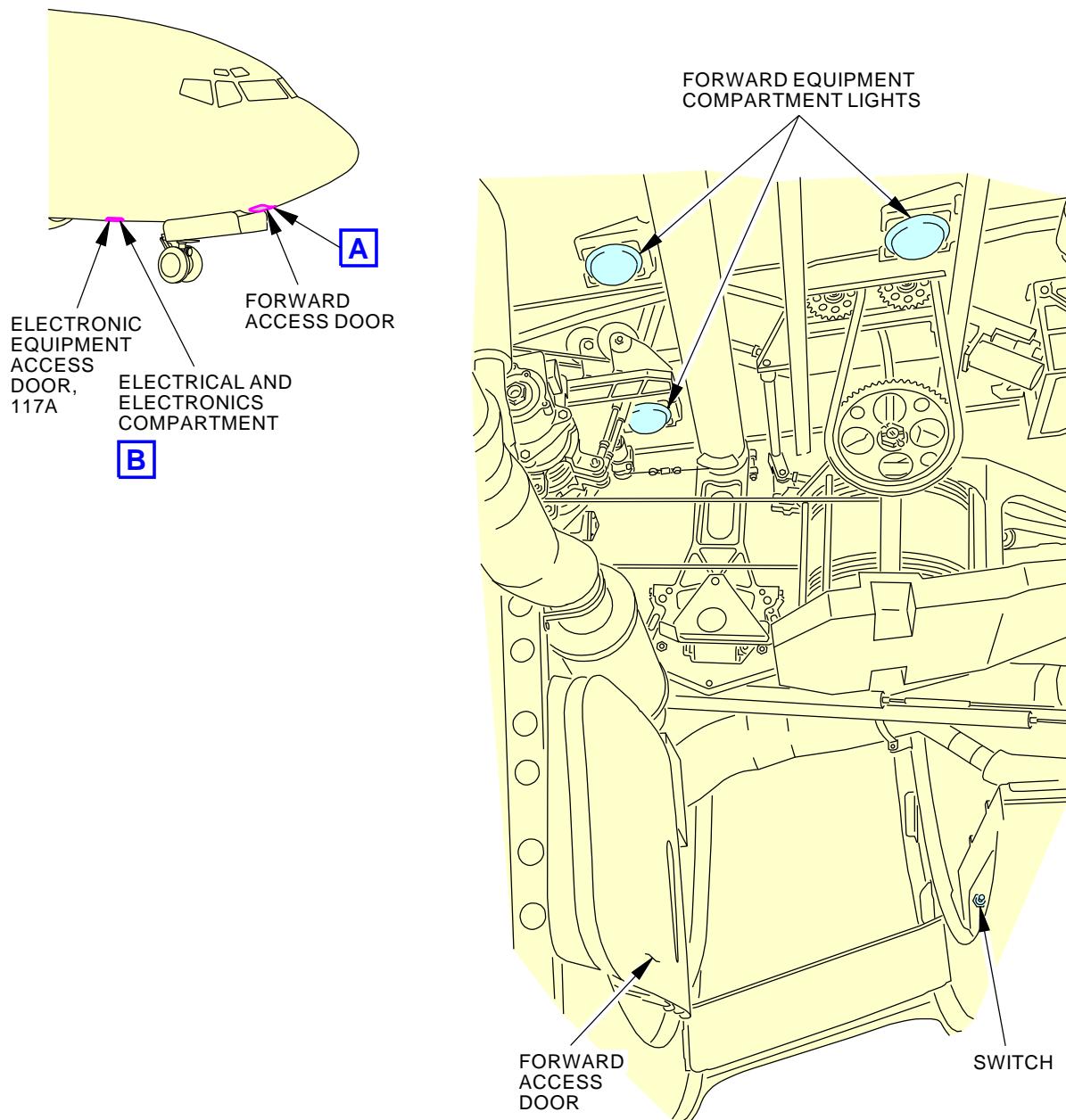
SUBTASK 33-34-00-700-001

- (2) Do the following steps for the Electronic Equipment Compartment Lights:
- At the forward access door, set the light switch to the ON mode.
 - Make sure that none of the forward equipment compartment lights come on.
 - At the electronic equipment compartment service panel, set the light switch to the ON mode.
 - Make sure that none of the electronic equipment compartment lights come on.

———— END OF TASK ————



33-34-00



**VIEW IN THE UP AND OUTBOARD DIRECTION
THROUGH FORWARD ACCESS DOOR**

A

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**Electronic Equipment Compartment Lights
Figure 201/33-34-00-990-802 (Sheet 1 of 2)**

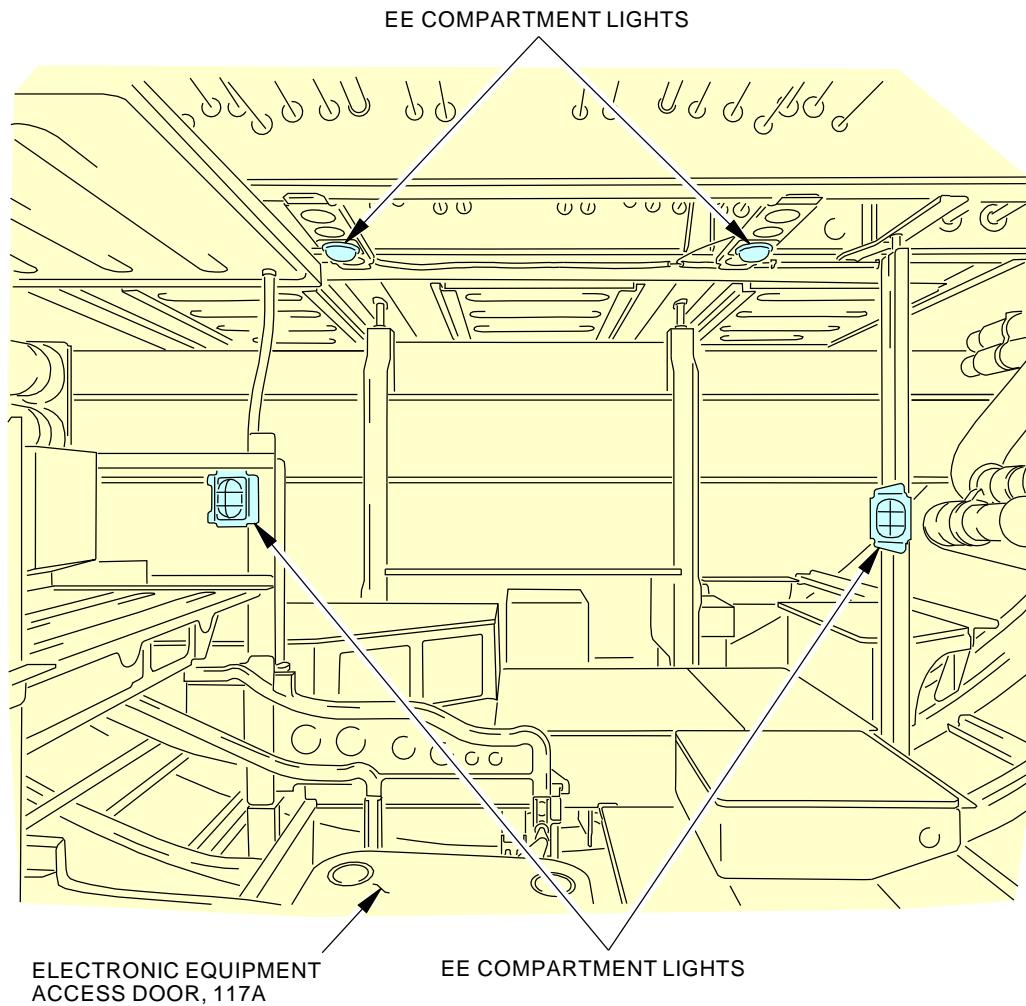
EFFECTIVITY
AKS ALL

33-34-00

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AIRCRAFT MAINTENANCE MANUAL



ELECTRICAL AND ELECTRONICS COMPARTMENT

B

2383275 S0000544098_V1

Electronic Equipment Compartment Lights
Figure 201/33-34-00-990-802 (Sheet 2 of 2)

EFFECTIVITY
AKS ALL

33-34-00

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AIRCRAFT MAINTENANCE MANUAL

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

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
117A	Electronic Equipment Access Door

D. Procedure

SUBTASK 33-34-00-860-006

WARNING: DO NOT TOUCH THE CONDUCTORS IN THE P91 AND P92 PANELS. BE CAREFUL WHEN YOU GET ACCESS TO THE CIRCUIT BREAKERS ON THE INNER SIDE OF THE P91 AND P92 PANELS (ROW F). IF IT IS POSSIBLE, REMOVE AIRPLANE ELECTRICAL POWER FIRST. THE P91 AND P92 PANELS HAVE HIGH VOLTAGES AND CURRENTS. ELECTRICAL VOLTAGE AND CURRENT CAN KILL YOU OR CAUSE INJURIES.

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

Power Distribution Panel Number 1, P91

Row	Col	Number	Name
C	2	C00139	ELEC RACK LT-FWD

SUBTASK 33-34-00-410-002

- (2) Close this access panel:

Number Name/Location

117A Electronic Equipment Access Door

———— END OF TASK ————

AKS 001-016

TASK 33-34-00-960-801

4. Electronic Equipment 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 33-34-11	Wiring Diagram Manual



33-34-00



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AIRCRAFT MAINTENANCE MANUAL

AKS 001-016 (Continued)

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
2	Lamp	33-34-00-03A-020	AKS 001-016
6	Lamp	33-34-00-01A-050	AKS 001-016

C. Location Zones

Zone	Area
112	Area Forward of Nose Landing Gear Wheel Well
118	Electrical and Electronics Compartment - Right

D. Access Panels

Number	Name/Location
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:

Number	Name/Location
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:

Number	Name/Location
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 33-34-00-960-001

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

- (a) Loosen the applicable fasteners [4] or fasteners [7].
 - 1) If washers [3] are installed, remove them.
- (b) Remove the applicable lens assembly [1] or lens assembly [5].
- (c) Replace the applicable lamp [2] or lamp [6].
- (d) Install the applicable lens assembly [1] or lens assembly [5].
- (e) Tighten the applicable fasteners [4] or fasteners [7].
 - 1) If washers [3] were removed, install them.

SUBTASK 33-34-00-860-002

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

SUBTASK 33-34-00-710-001

- (6) Do this test of the new lamp:

- (a) At the access door, set the switch for the light to the on mode.

EFFECTIVITY
AKS ALL

33-34-00



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AIRCRAFT MAINTENANCE MANUAL

AKS 001-016 (Continued)

- 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

- (7) Close these access panels:

Number Name/Location

112A	Forward Access Door
117A	Electronic Equipment Access Door

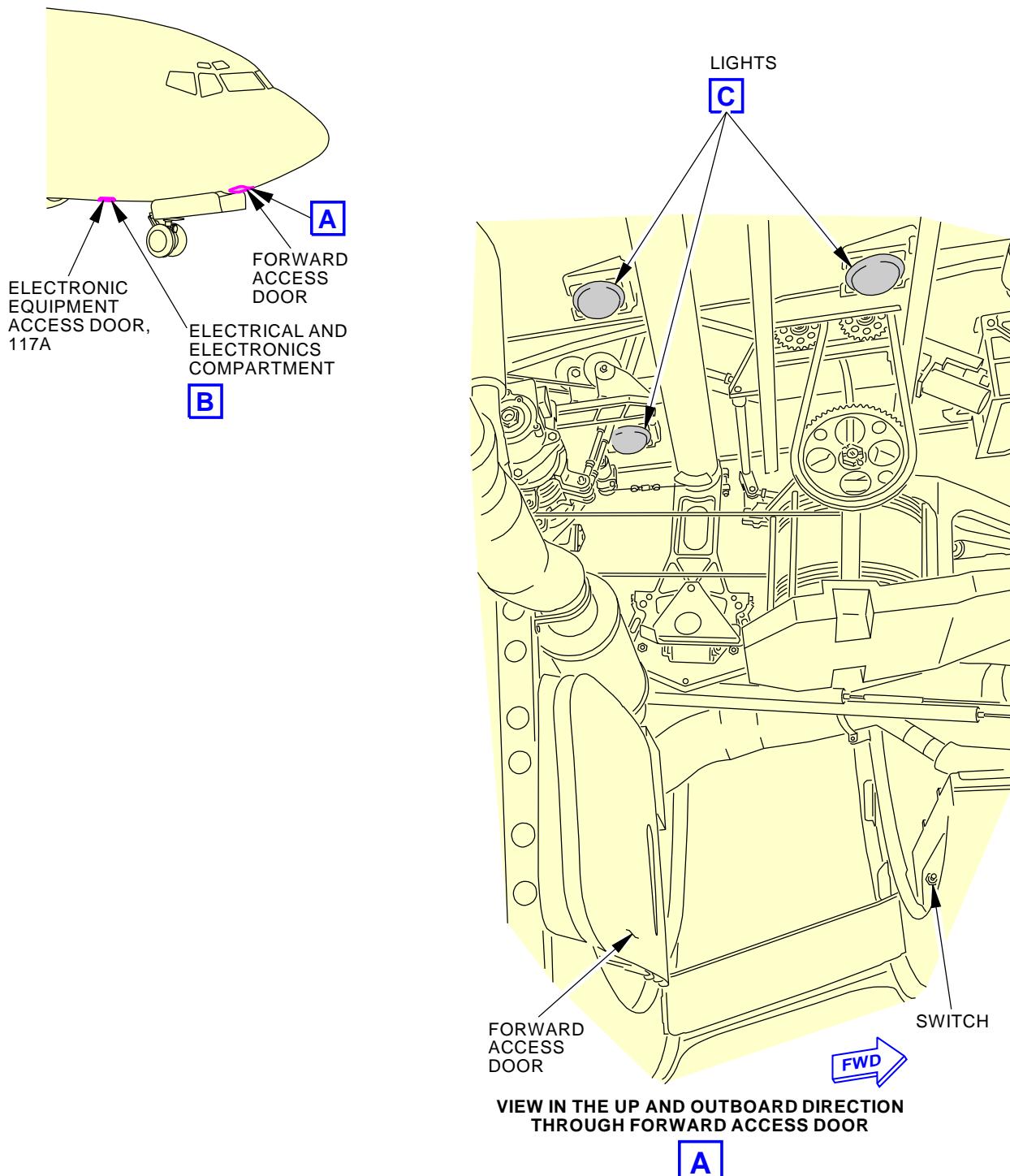
SUBTASK 33-34-00-860-003

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

———— END OF TASK ————

EFFECTIVITY
AKS ALL

33-34-00



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Electronic Equipment Compartment Light - Lamp Replacement
Figure 202/33-34-00-990-801 (Sheet 1 of 3)

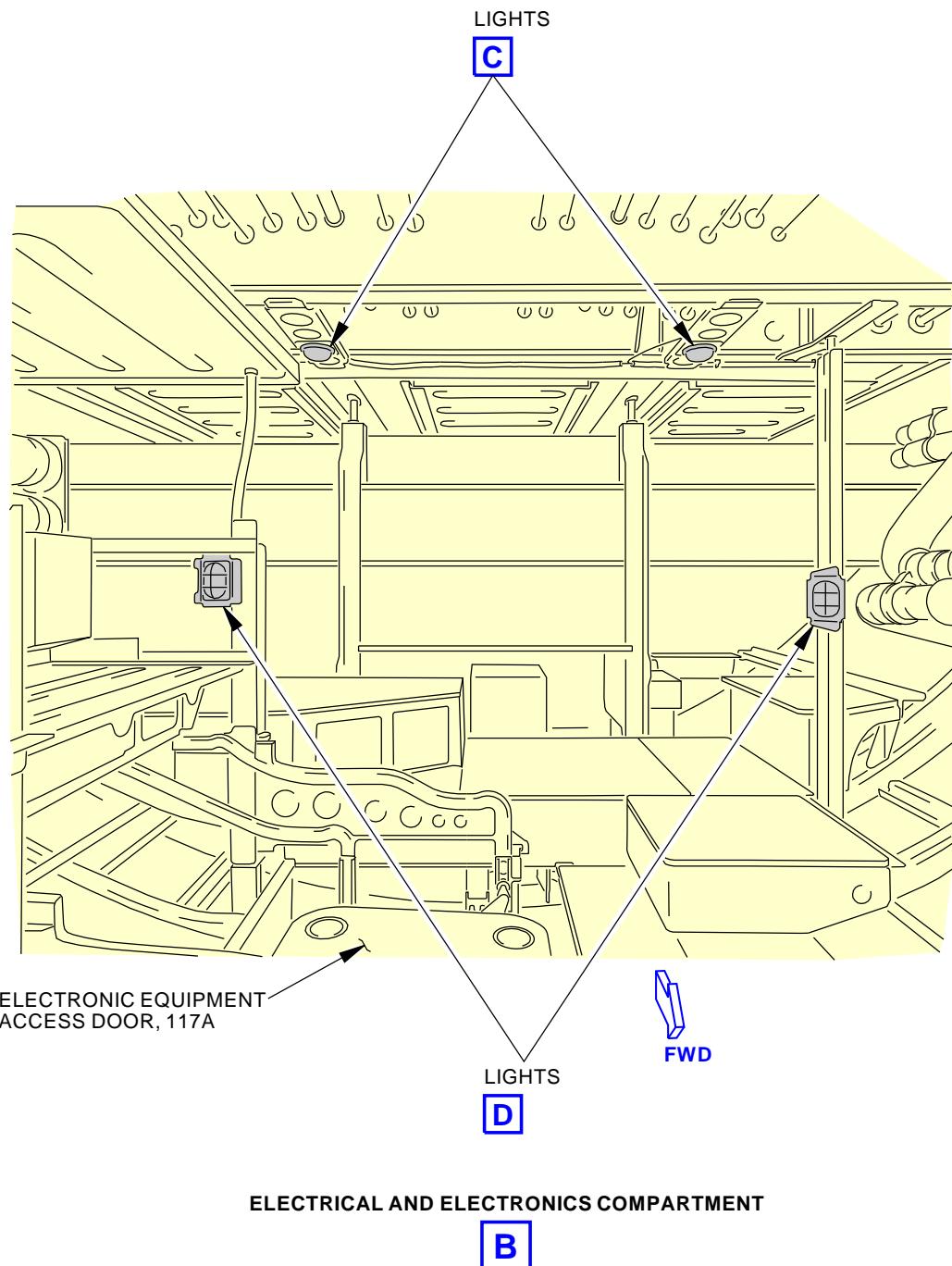
EFFECTIVITY
AKS 001-016

33-34-00

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AIRCRAFT MAINTENANCE MANUAL



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Electronic Equipment Compartment Light - Lamp Replacement
Figure 202/33-34-00-990-801 (Sheet 2 of 3)

EFFECTIVITY
AKS 001-016

33-34-00

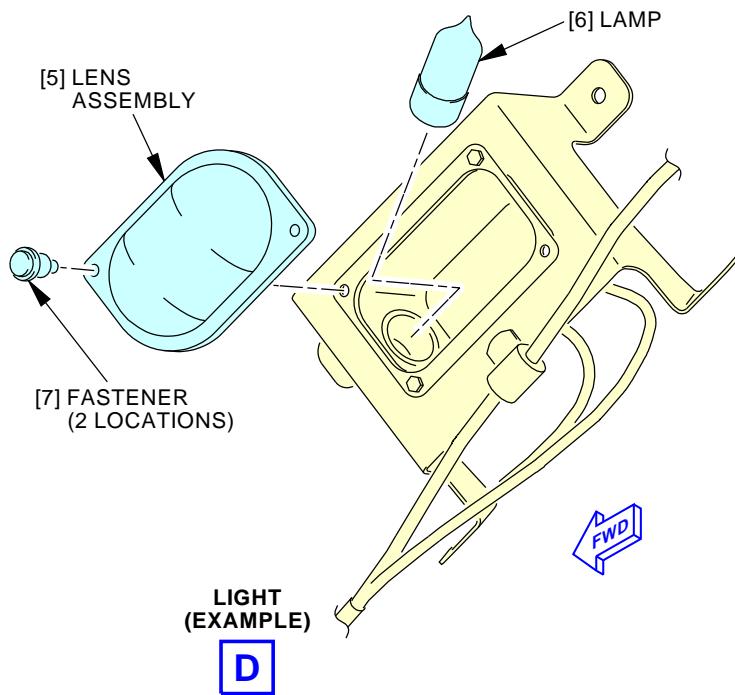
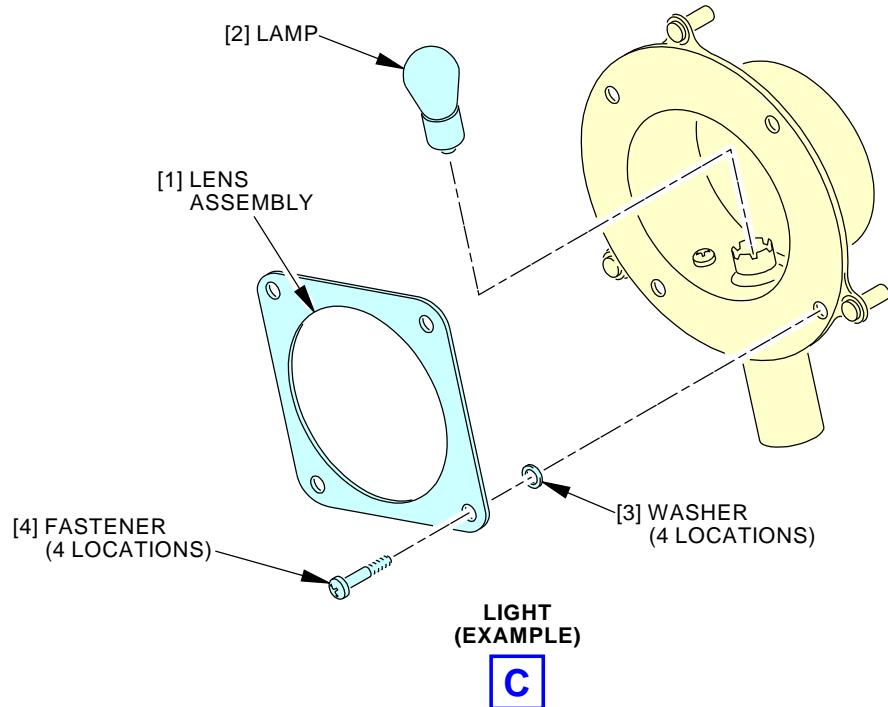
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AIRCRAFT MAINTENANCE MANUAL



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Electronic Equipment Compartment Light - Lamp Replacement
Figure 202/33-34-00-990-801 (Sheet 3 of 3)

EFFECTIVITY
AKS 001-016

33-34-00

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AIRCRAFT MAINTENANCE MANUAL

AKS 017-999

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. Procedure

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: 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

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].

EFFECTIVITY
AKS ALL

33-34-00

D633A101-AKS



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AIRCRAFT MAINTENANCE MANUAL

AKS 017-999 (Continued)

- (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: 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:

<u>Number</u>	<u>Name/Location</u>
112A	Forward Access Door
117A	Electronic Equipment Access Door

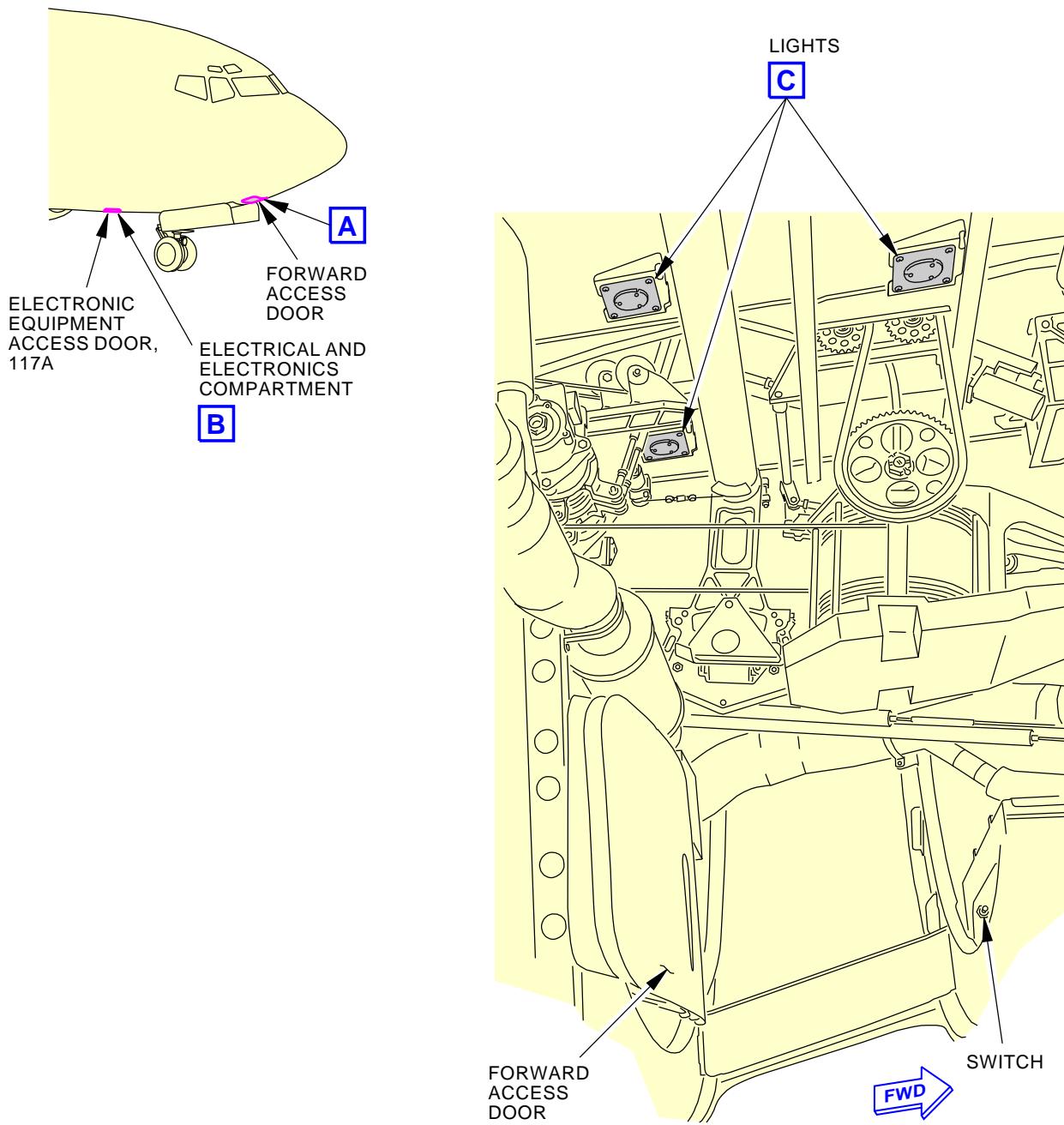
SUBTASK 33-34-00-860-007

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

———— END OF TASK ————



33-34-00



VIEW IN THE UP AND OUTBOARD DIRECTION THROUGH FORWARD ACCESS DOOR

A

2405607 S0000556693_V1

Electronic Equipment Compartment Light - LED Replacement
Figure 203/33-34-00-990-803 (Sheet 1 of 3)

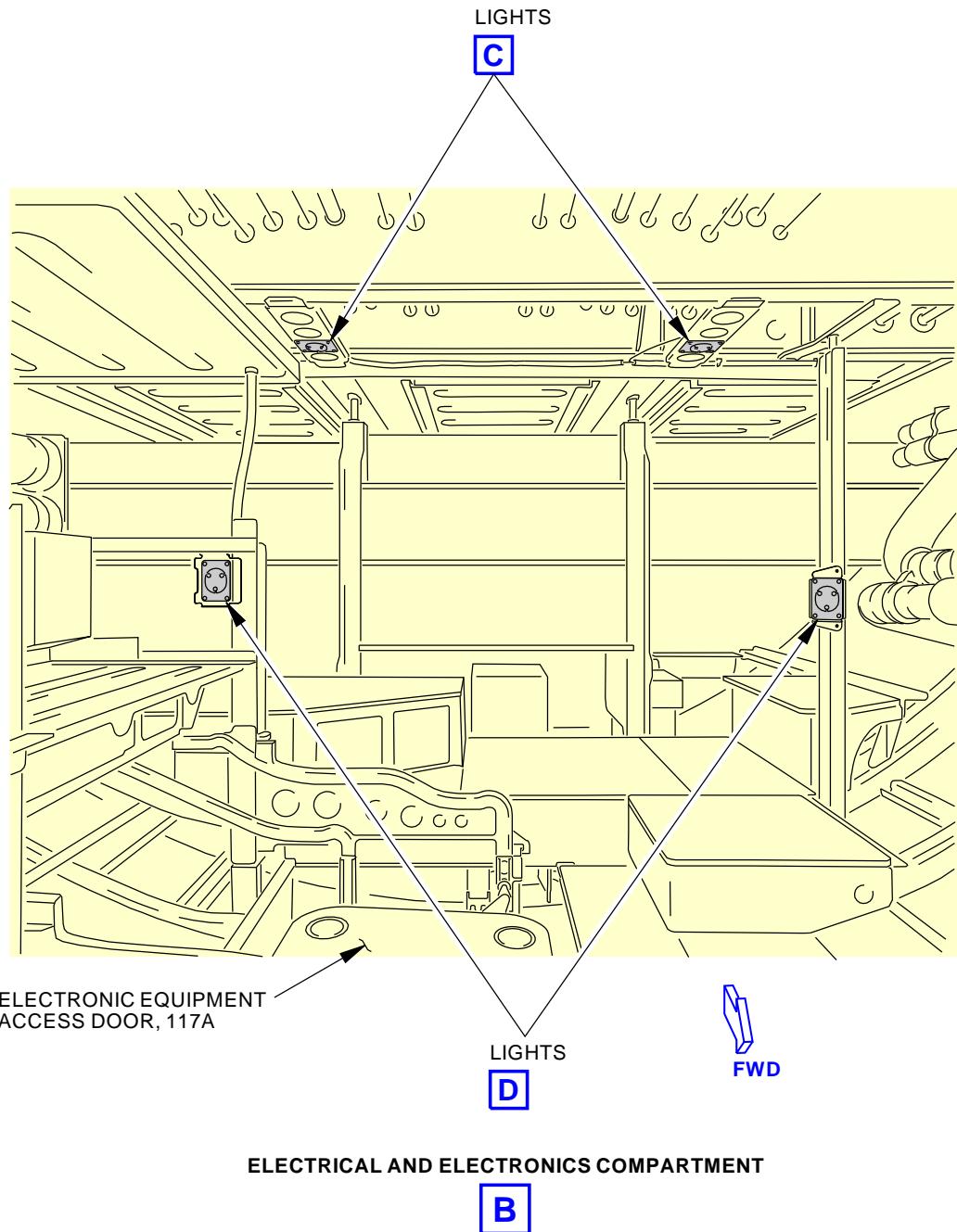
EFFECTIVITY
AKS 017-999

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 2 of 3)

EFFECTIVITY
AKS 017-999

33-34-00

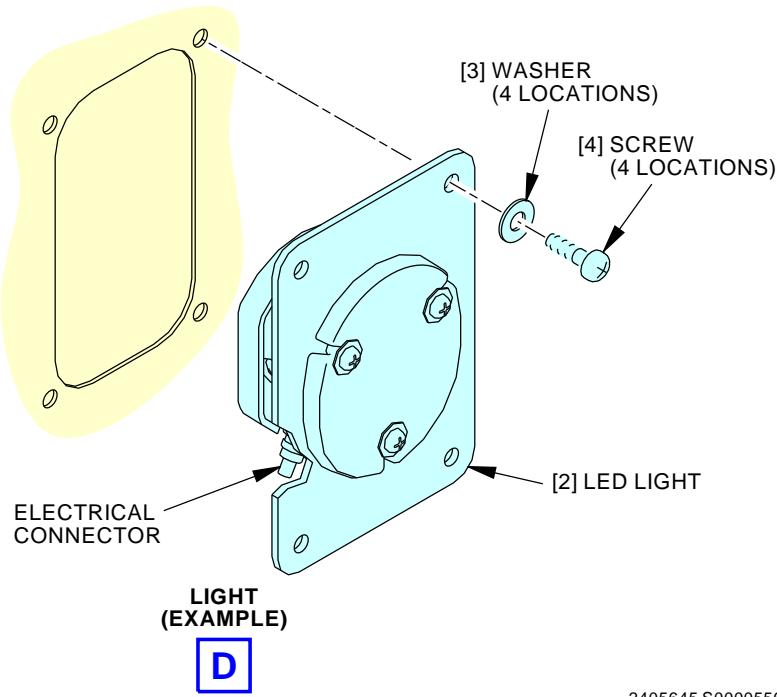
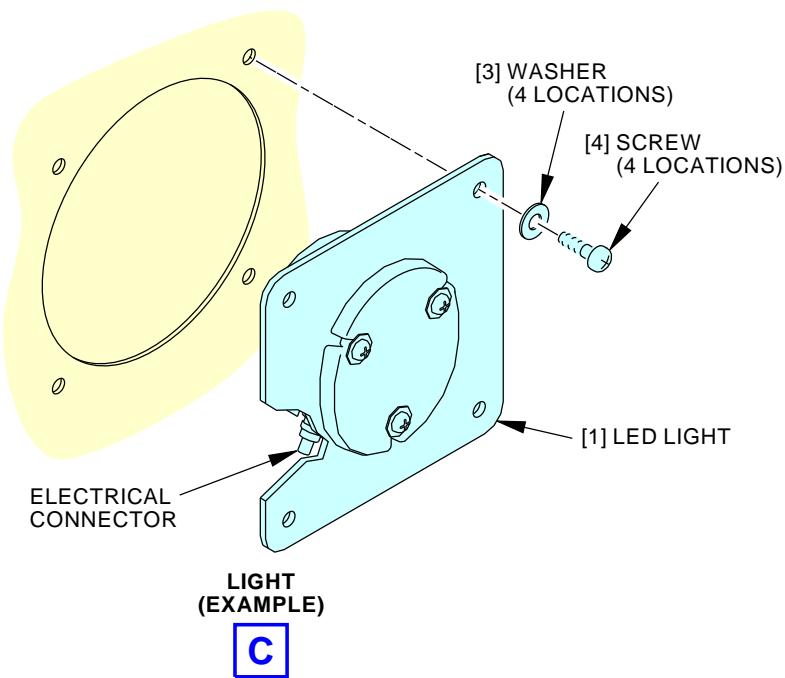
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Electronic Equipment Compartment Light - LED Replacement
Figure 203/33-34-00-990-803 (Sheet 3 of 3)

EFFECTIVITY
AKS 017-999

33-34-00

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AIRCRAFT MAINTENANCE MANUAL

ACCESSORY COMPARTMENT LIGHTS - MAINTENANCE PRACTICES

1. General

- A. This procedure has these tasks:
- (1) Accessory Compartment Lights Deactivation
 - (2) Accessory Compartment Lights Activation
 - (3) Accessory Compartment Light Lamp Replacement

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
118	Electrical and Electronics Compartment - Right
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. Procedure

SUBTASK 33-35-00-010-004

- (1) Open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 33-35-00-860-004

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	5	C00389	ACCESS COMPT LT

EFFECTIVITY
AKS ALL

33-35-00



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AIRCRAFT MAINTENANCE MANUAL

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:

<u>Number</u>	<u>Name/Location</u>
311BL	Stabilizer Trim Access Door
315A	APU Cowl Door
317AL	Tail Cone Access Door

SUBTASK 33-35-00-860-005

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 33-35-00-700-001

- (3) At the tail cone access door, toggle the light switch to the ON mode.
(a) Make sure the tail cone compartment light does not come on.
- (4) At the FWD end of the APU cowl door, toggle the light switch to the ON mode.
(a) Make sure none of the APU compartment lights come on.
- (5) At the AFT end of the accessory compartment door, press the light switch button to the ON mode.
(a) Make sure none of the accessory compartment lights come on.

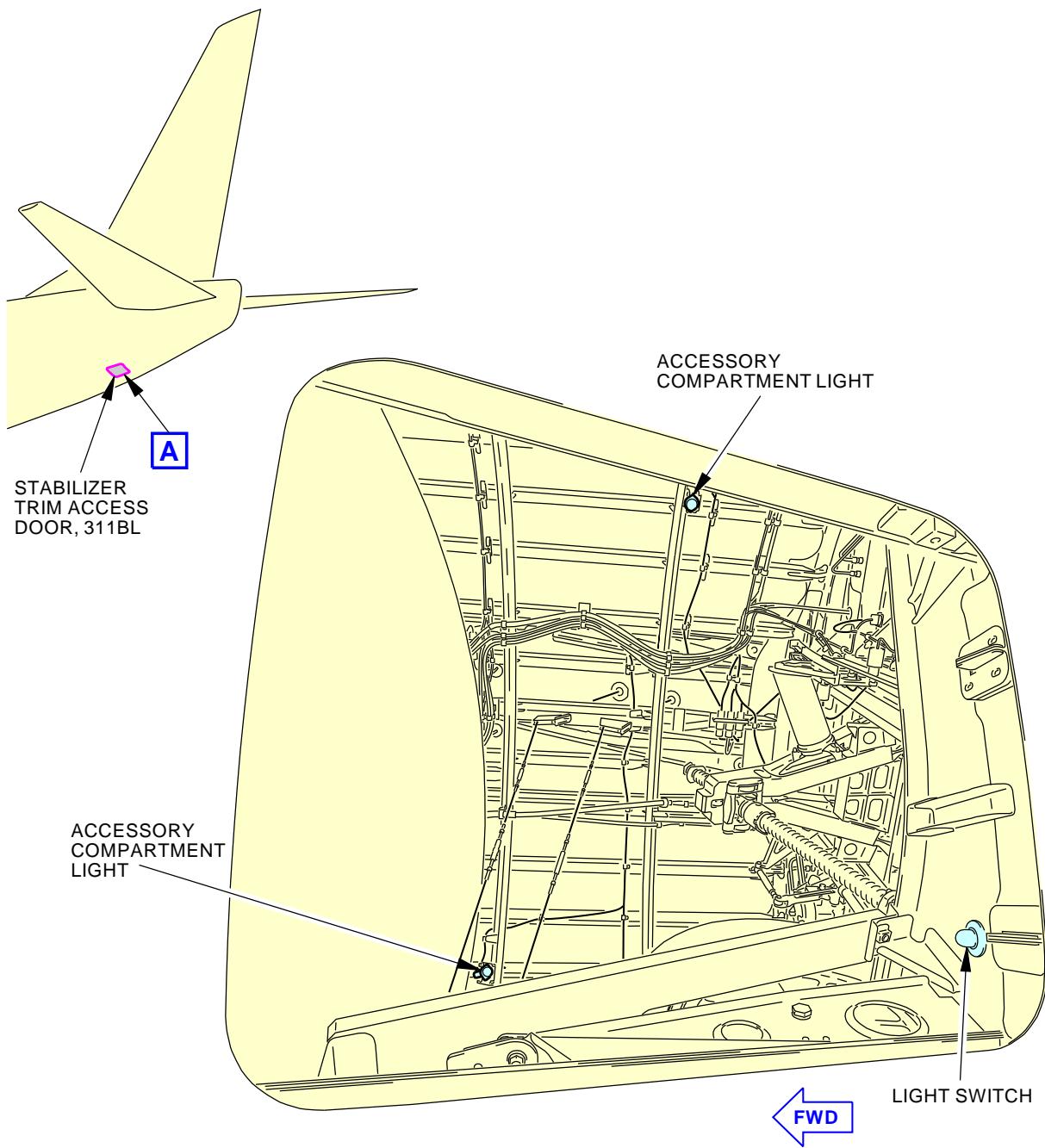
———— END OF TASK ————



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(VIEW WHEN YOU ARE LOOKING UP THROUGH
THE STABILIZER TRIM ACCESS DOOR)

A

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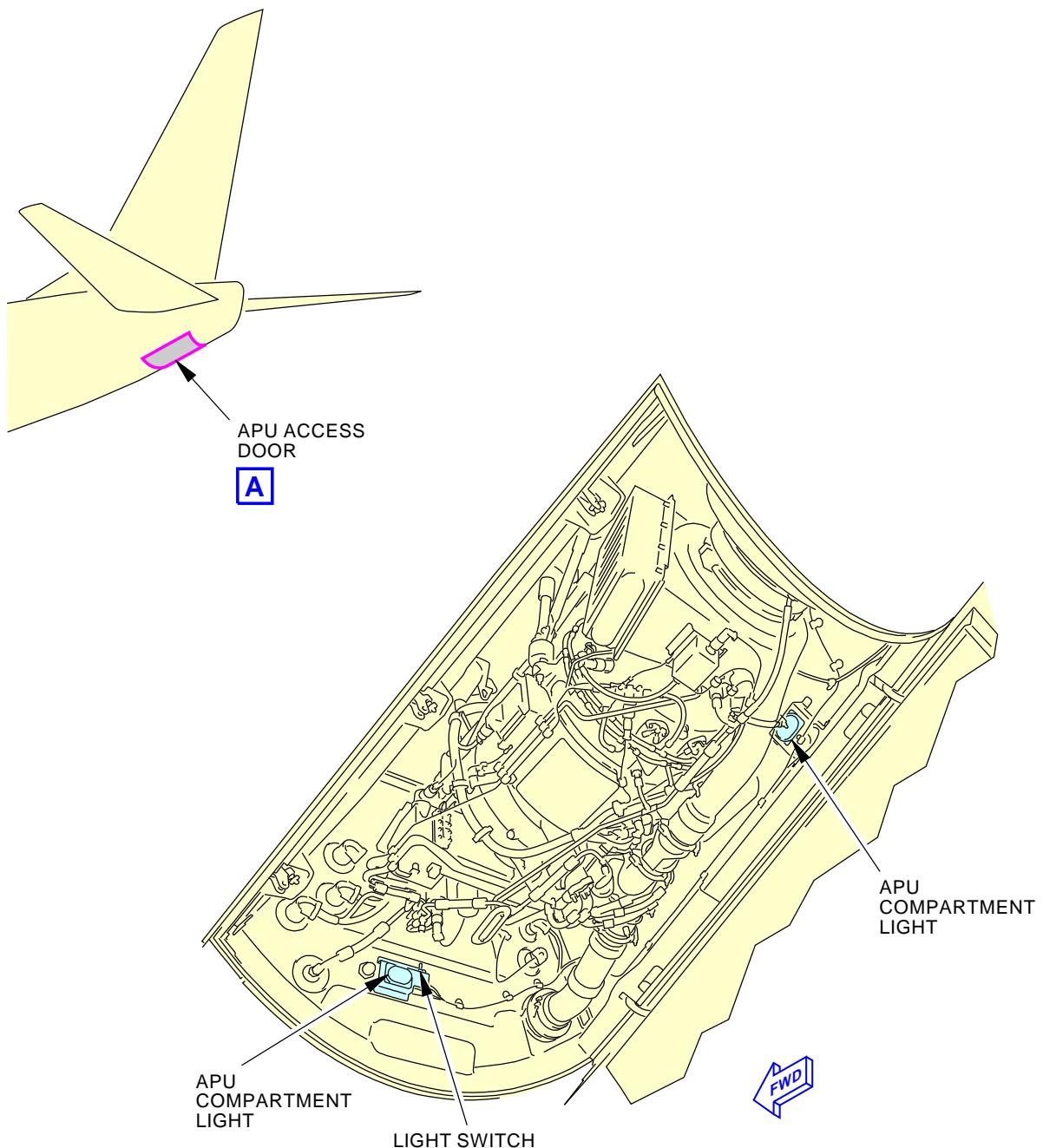
Accessory Compartment Lights
Figure 201/33-35-00-990-802 (Sheet 1 of 3)

EFFECTIVITY	AKS ALL
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33-35-00



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AIRCRAFT MAINTENANCE MANUAL



(VIEW WHEN YOU ARE LOOKING UP THROUGH THE APU ACCESS DOOR)

A

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Accessory Compartment Lights
Figure 201/33-35-00-990-802 (Sheet 2 of 3)

EFFECTIVITY
AKS ALL

33-35-00

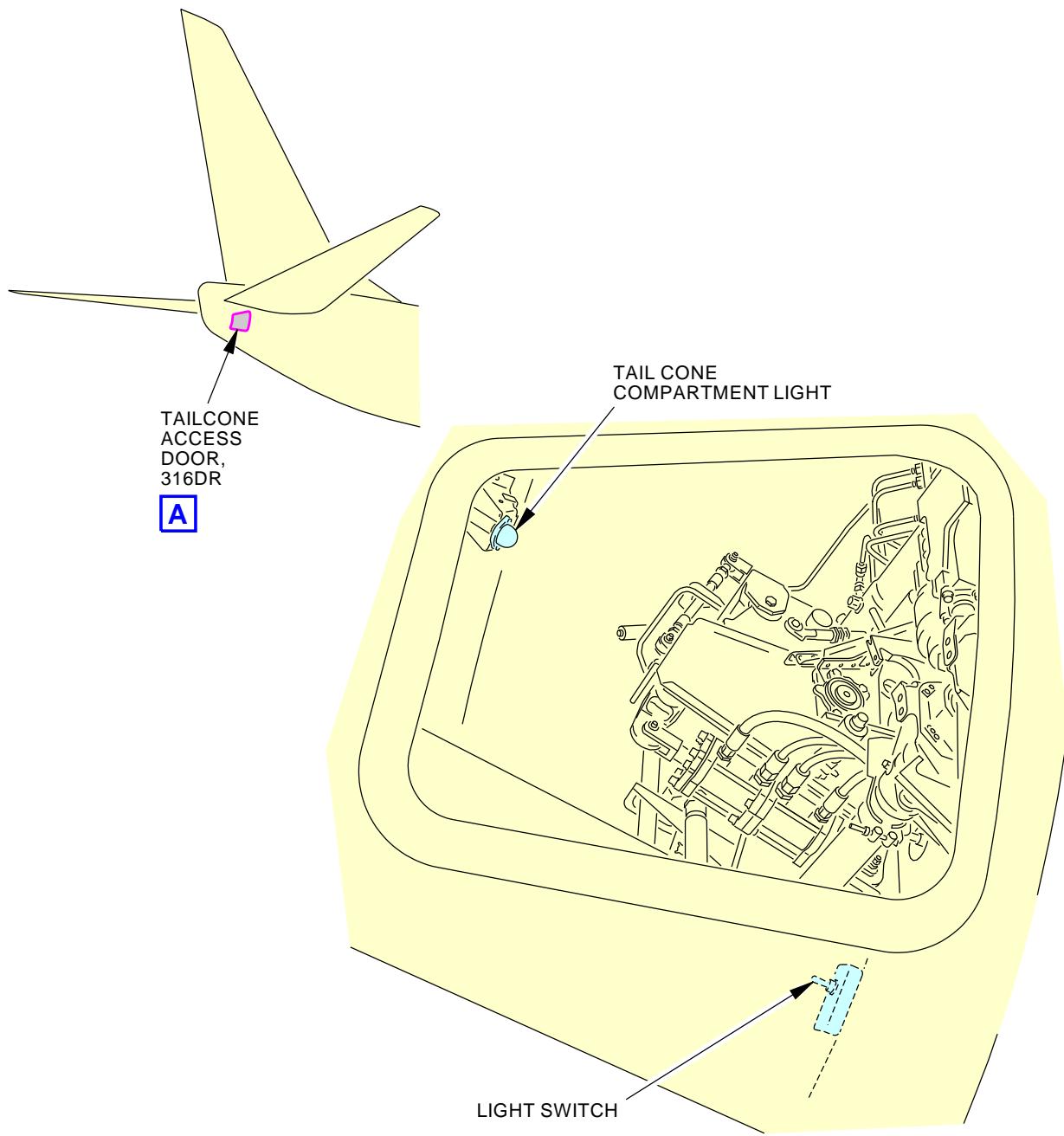
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(VIEW WHEN YOU ARE LOOKING UP
THROUGH THE TAIL CONE ACCESS DOOR)

A

2383696 S0000544470_V1

Accessory Compartment Lights
Figure 201/33-35-00-990-802 (Sheet 3 of 3)

EFFECTIVITY
AKS ALL

33-35-00

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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

Zone	Area
117	Electrical and Electronics Compartment - Left
118	Electrical and Electronics Compartment - Right

C. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

D. Procedure

SUBTASK 33-35-00-860-006

WARNING: DO NOT TOUCH THE CONDUCTORS IN THE P91 AND P92 PANELS. BE CAREFUL WHEN YOU GET ACCESS TO THE CIRCUIT BREAKERS ON THE INNER SIDE OF THE P91 AND P92 PANELS (ROW F). IF IT IS POSSIBLE, REMOVE AIRPLANE ELECTRICAL POWER FIRST. THE P91 AND P92 PANELS HAVE HIGH VOLTAGES AND CURRENTS. ELECTRICAL VOLTAGE AND CURRENT CAN KILL YOU OR CAUSE INJURIES.

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

Power Distribution Panel Number 1, P91

Row	Col	Number	Name
C	5	C00389	ACCESS COMPT LT

SUBTASK 33-35-00-410-002

- (2) Close this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

— END OF TASK —

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	AKS 001-016
2	Gasket	33-30-51-50A-020	AKS 001-016

EFFECTIVITY
AKS ALL

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AIRCRAFT MAINTENANCE MANUAL

(Continued)

AMM Item	Description	AIPC Reference	AIPC Effectivity
5	Lamp	33-35-00-02A-115	AKS 001-016

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:

- (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).

AKS 001-016

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].



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AKS 017-999

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.

AKS 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.

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

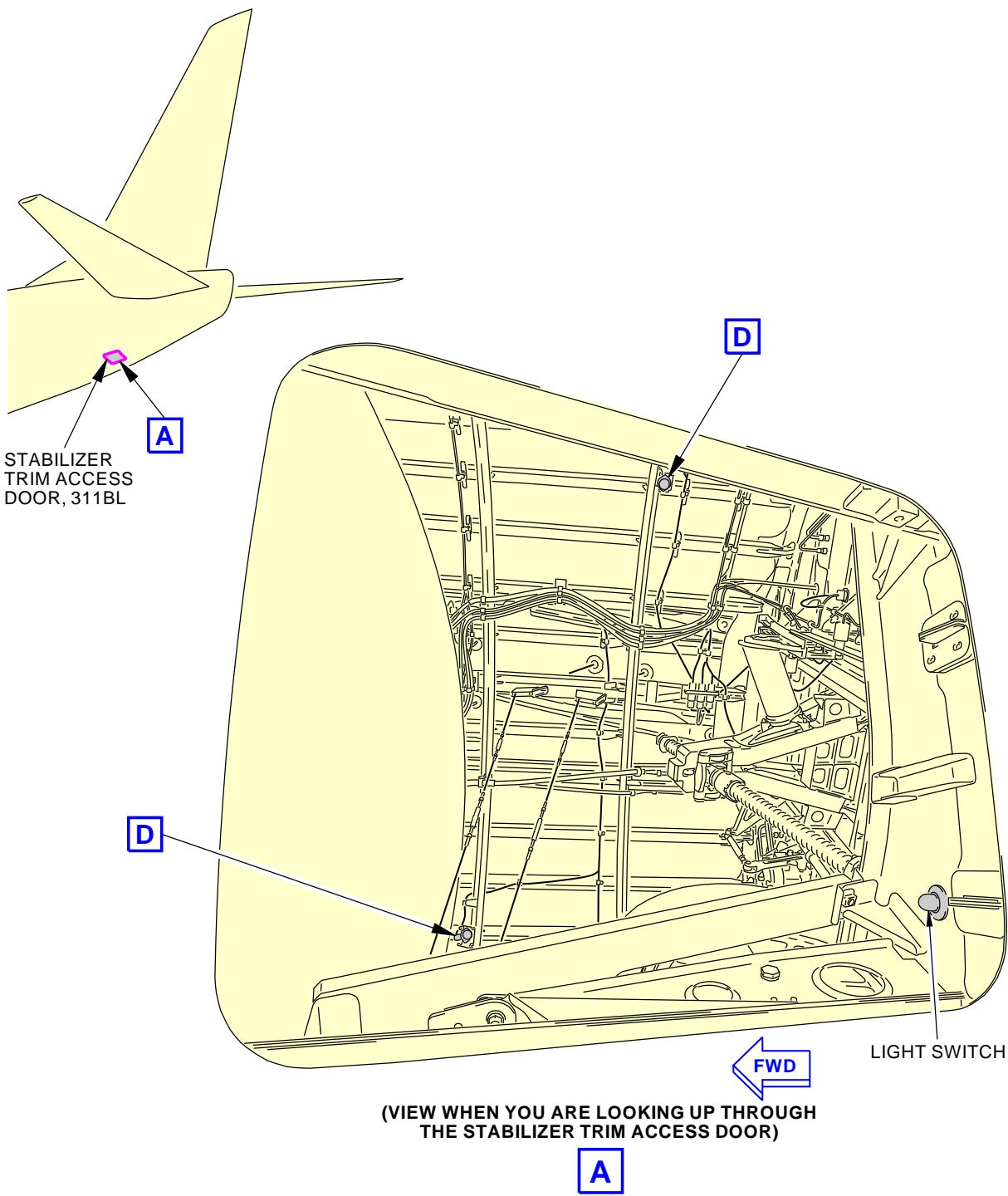
SUBTASK 33-35-00-860-003

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

———— END OF TASK ————

EFFECTIVITY
AKS ALL

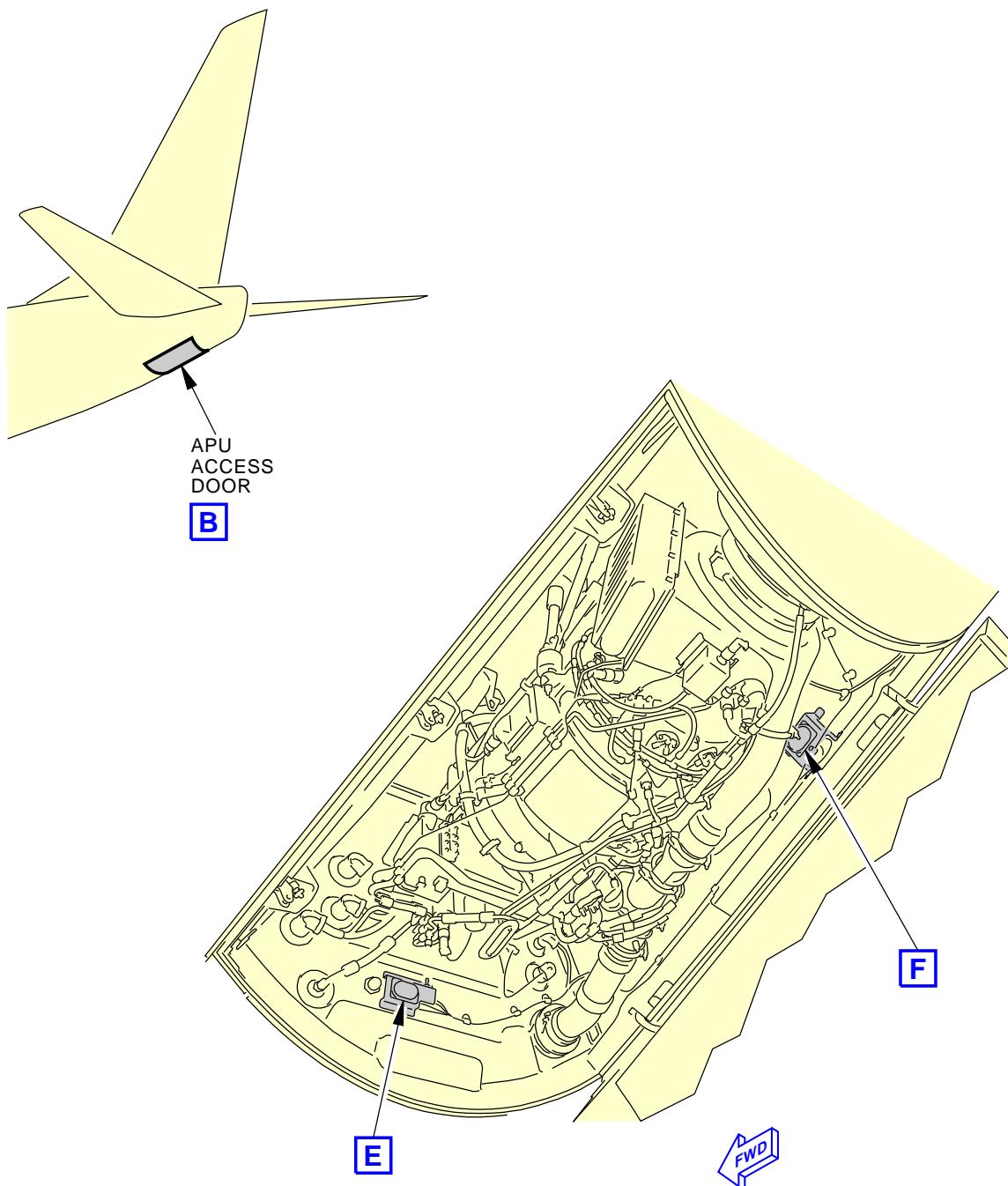
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Accessory Compartment Light - Lamp Replacement
Figure 202/33-35-00-990-801 (Sheet 1 of 5)EFFECTIVITY
AKS ALL**33-35-00**

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(VIEW WHEN YOU ARE LOOKING UP THROUGH THE APU ACCESS DOOR)

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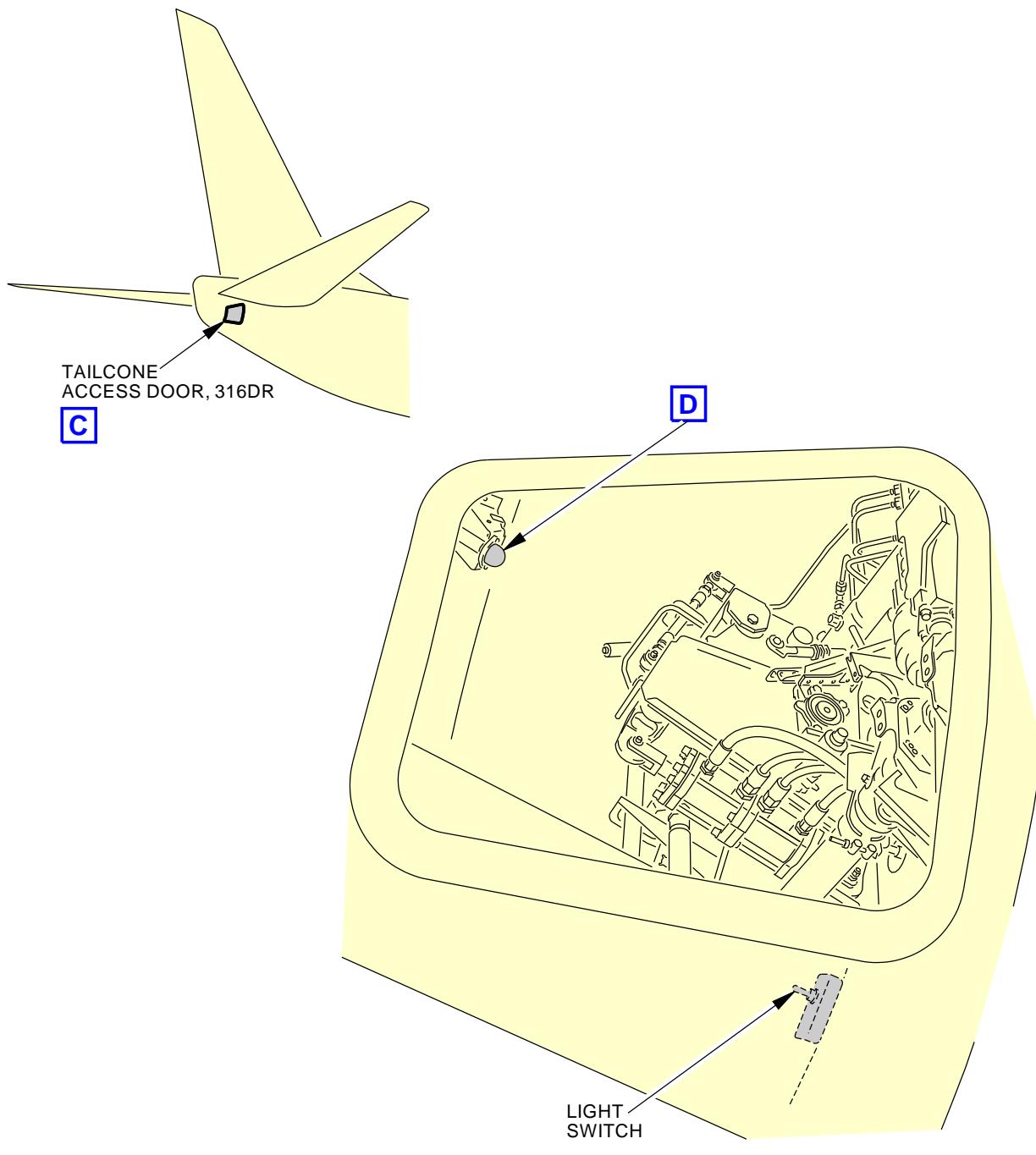
Accessory Compartment Light - Lamp Replacement
Figure 202/33-35-00-990-801 (Sheet 2 of 5)EFFECTIVITY
AKS 001-016**33-35-00**

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(VIEW WHEN YOU ARE LOOKING UP
THROUGH THE TAIL CONE ACCESS DOOR)



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Accessory Compartment Light - Lamp Replacement
Figure 202/33-35-00-990-801 (Sheet 3 of 5)

EFFECTIVITY
AKS ALL

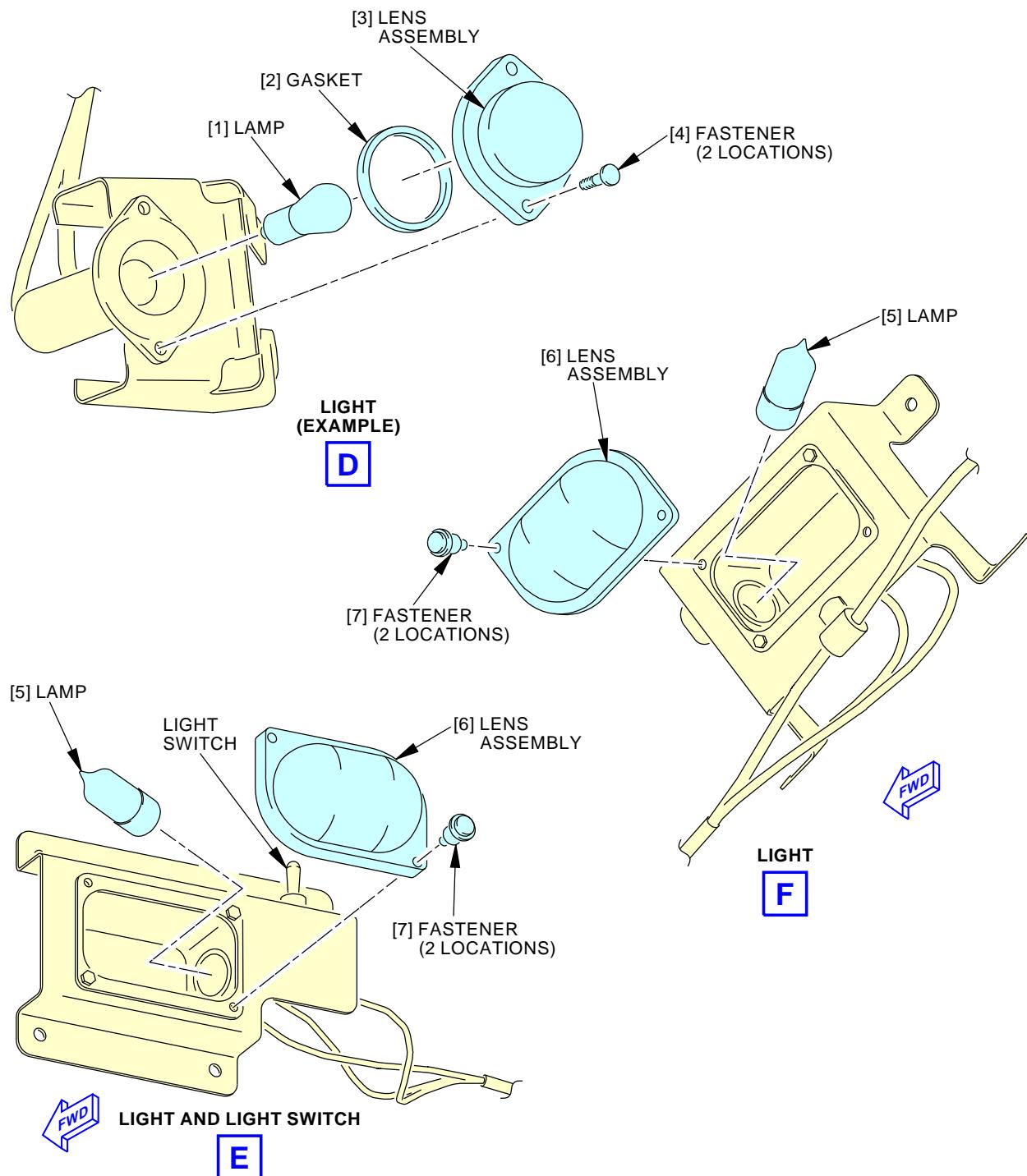
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Accessory Compartment Light - Lamp Replacement
Figure 202/33-35-00-990-801 (Sheet 4 of 5)

EFFECTIVITY
AKS 001-016

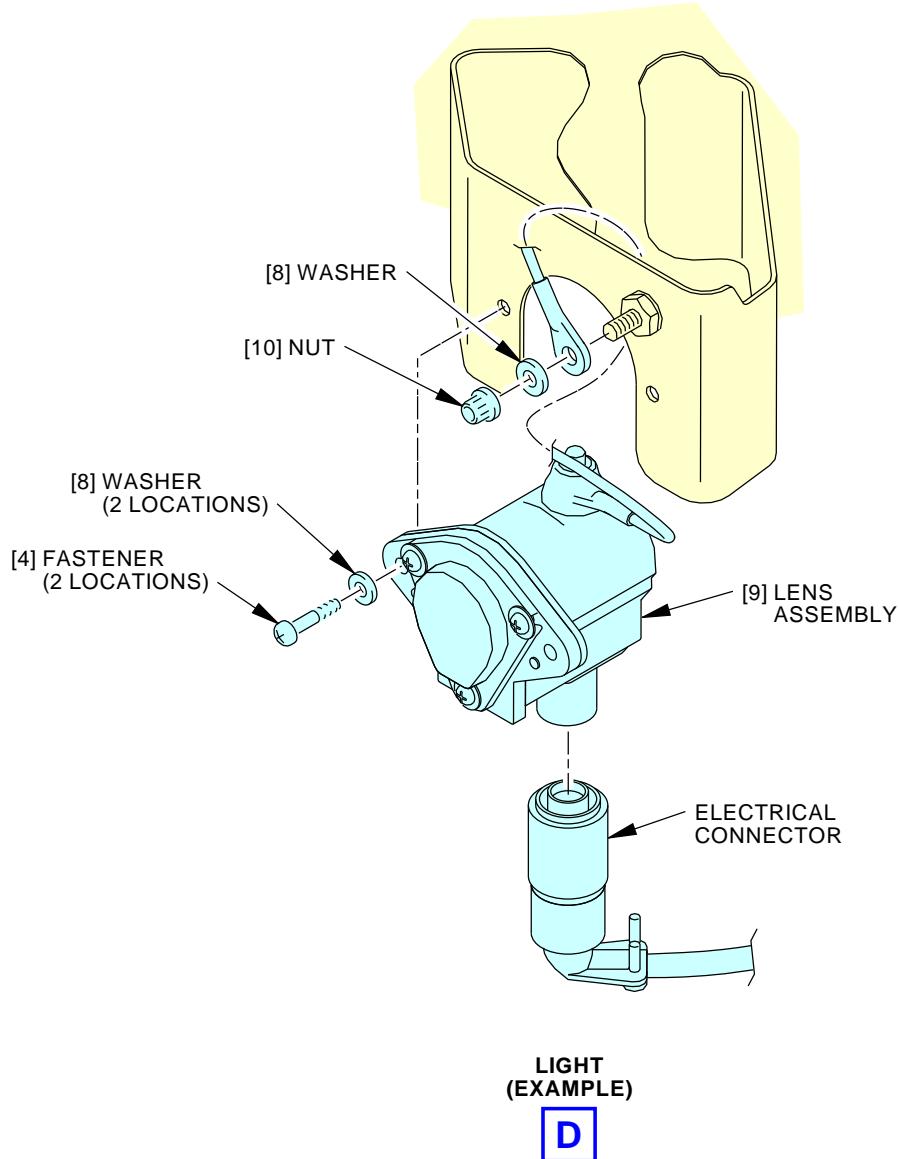
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Accessory Compartment Light - Lamp Replacement
Figure 202/33-35-00-990-801 (Sheet 5 of 5)

EFFECTIVITY
AKS 017-999

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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.

AKS 001-016

- (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

AKS 017-999

- (8) Cargo Compartment Light - LED Light Assembly Replacement, Ceiling
- (9) Cargo Compartment Light - LED Light Assembly Replacement, Door

AKS 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
117	Electrical and Electronics Compartment - Left
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
AKS ALL

33-36-00



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E. Procedure

SUBTASK 33-36-00-010-009

- (1) Open this access panel:

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

SUBTASK 33-36-00-860-015

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

<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
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:

<u>Number</u>	<u>Name/Location</u>
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:

- (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.

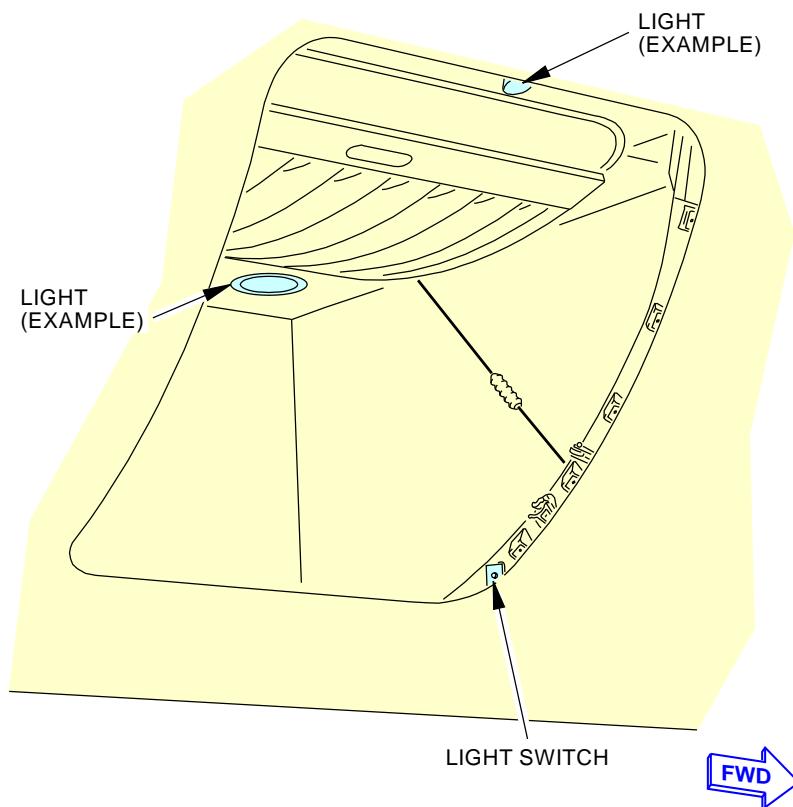
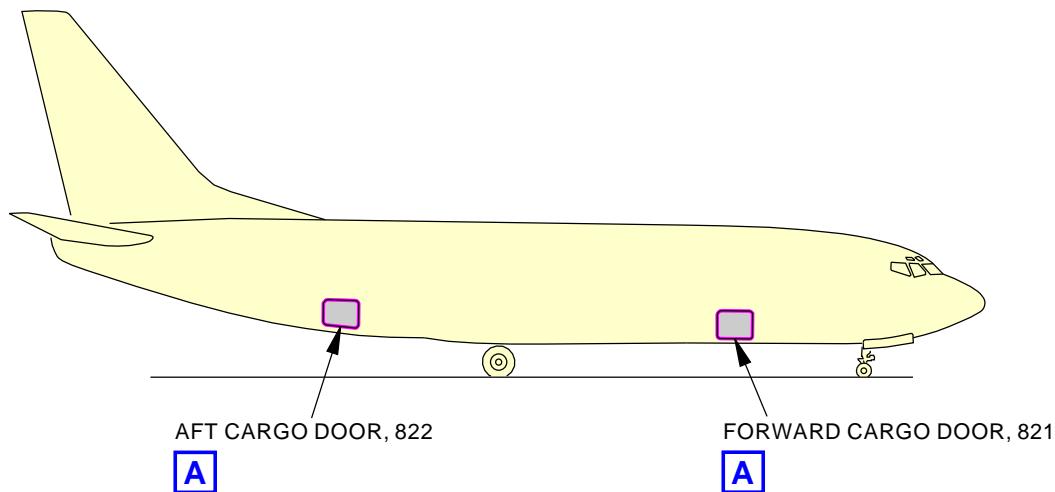
———— END OF TASK ————

EFFECTIVITY
AKS ALL

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Cargo Compartment Lights
Figure 201/33-36-00-990-803

EFFECTIVITY	AKS ALL
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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**

Zone	Area
117	Electrical and Electronics Compartment - Left
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

D. **Procedure**

SUBTASK 33-36-00-860-016

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

Row	Col	Number	Name
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

- (2) Close this access panel:

Number **Name/Location**

117A Electronic Equipment Access Door

———— END OF TASK ————



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AKS 001-016

TASK 33-36-00-960-801

4. Cargo Compartment Light - Lamp 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)

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
7	Lamp	33-36-00-15-010	AKS 001-016

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 33-36-00-860-001

- (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:

Number	Name/Location
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.

- (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 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.

- (c) Replace the lamp [7].

EFFECTIVITY
AKS ALL

33-36-00

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AKS 001-016 (Continued)

- (d) 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 ————

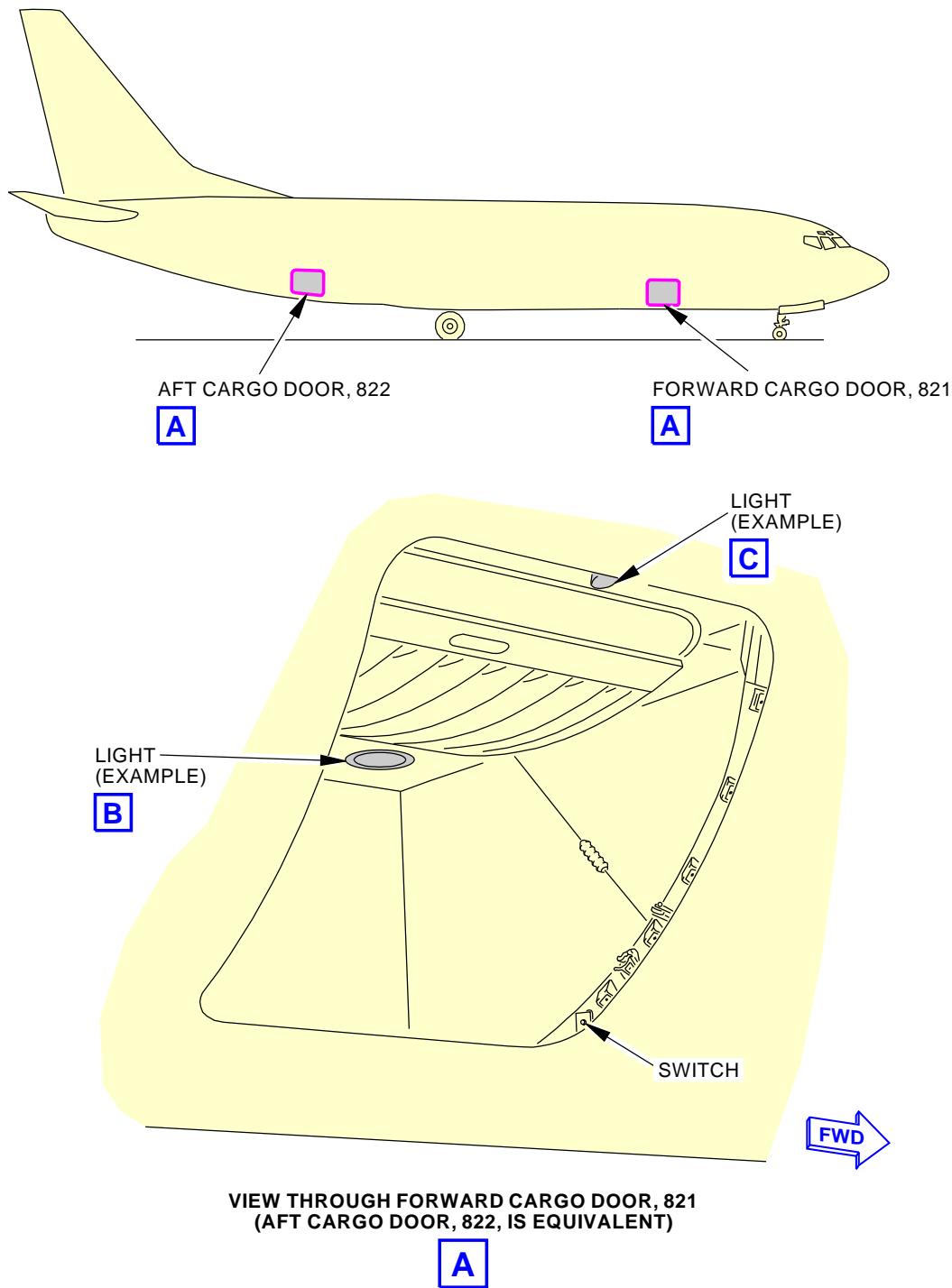
EFFECTIVITY

AKS ALL

33-36-00



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AIRCRAFT MAINTENANCE MANUAL



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Cargo Compartment Light - Lamp/Light/Lens Assembly Replacement
Figure 202/33-36-00-990-802 (Sheet 1 of 2)

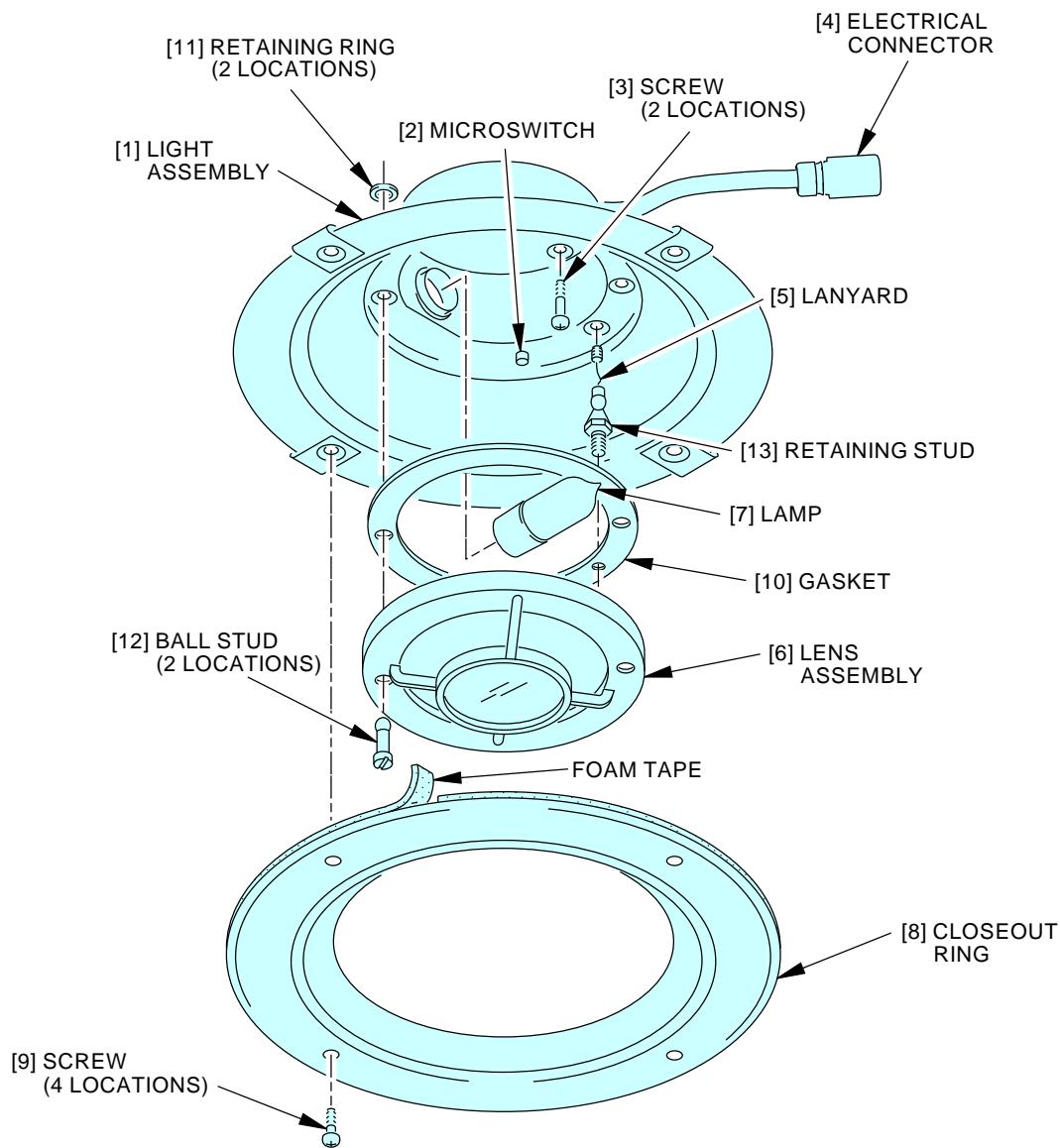
EFFECTIVITY
AKS 001-016

33-36-00

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CEILING CARGO COMPARTMENT LIGHT
(EXAMPLE)

B

2372849 S0000543229_V3

Cargo Compartment Light - Lamp/Light/Lens Assembly Replacement
Figure 202/33-36-00-990-802 (Sheet 2 of 2)

EFFECTIVITY
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AKS 001-016 (Continued)

TASK 33-36-00-960-802

5. Cargo Compartment Light - Lamp Replacement, Door

(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 33-36-11	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	AKS 001-016

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. Procedure

SUBTASK 33-36-00-860-003

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

SUBTASK 33-36-00-940-001

- (2) Set up the safety equipment.

SUBTASK 33-36-00-010-002

- (3) Open the applicable cargo door:

Number	Name/Location
821	Forward Cargo Door
822	Aft Cargo Door

SUBTASK 33-36-00-960-002

- (4) 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

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

- (a) 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.

EFFECTIVITY

AKS ALL

33-36-00



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AIRCRAFT MAINTENANCE MANUAL

AKS 001-016 (Continued)

- 1) Make sure the lamp goes off.

SUBTASK 33-36-00-410-002

- (6) Close the applicable cargo door:

Number Name/Location

821	Forward Cargo Door
822	Aft Cargo Door

SUBTASK 33-36-00-940-002

- (7) Remove the safety equipment.

SUBTASK 33-36-00-860-004

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

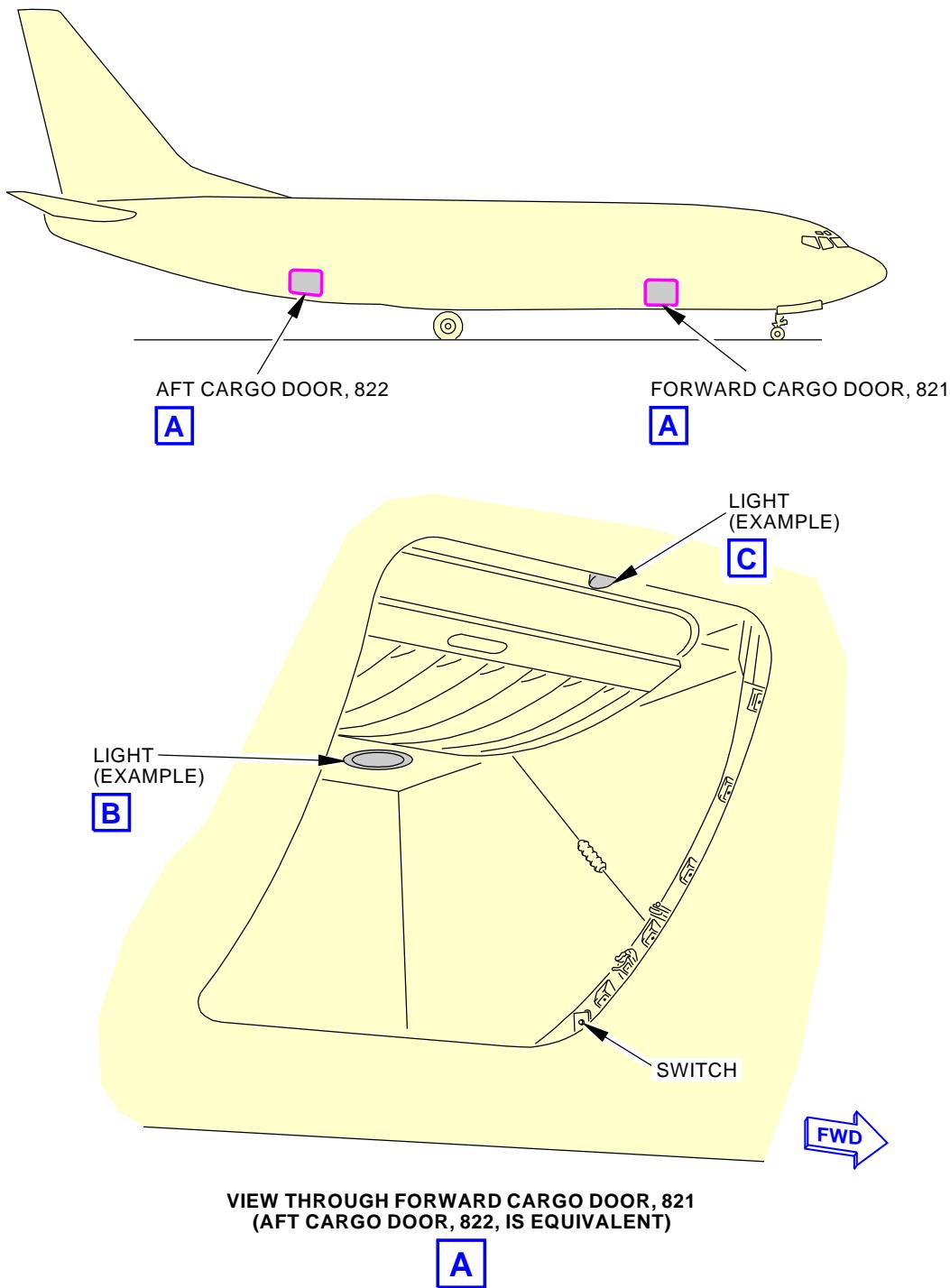
———— END OF TASK ————

EFFECTIVITY
AKS ALL

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AIRCRAFT MAINTENANCE MANUAL



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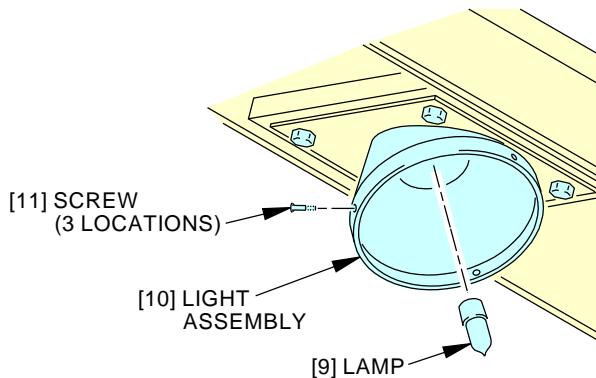
Cargo Compartment Light - Lamp/Light Assembly Replacement
Figure 203/33-36-00-990-806 (Sheet 1 of 2)

EFFECTIVITY
AKS 001-016

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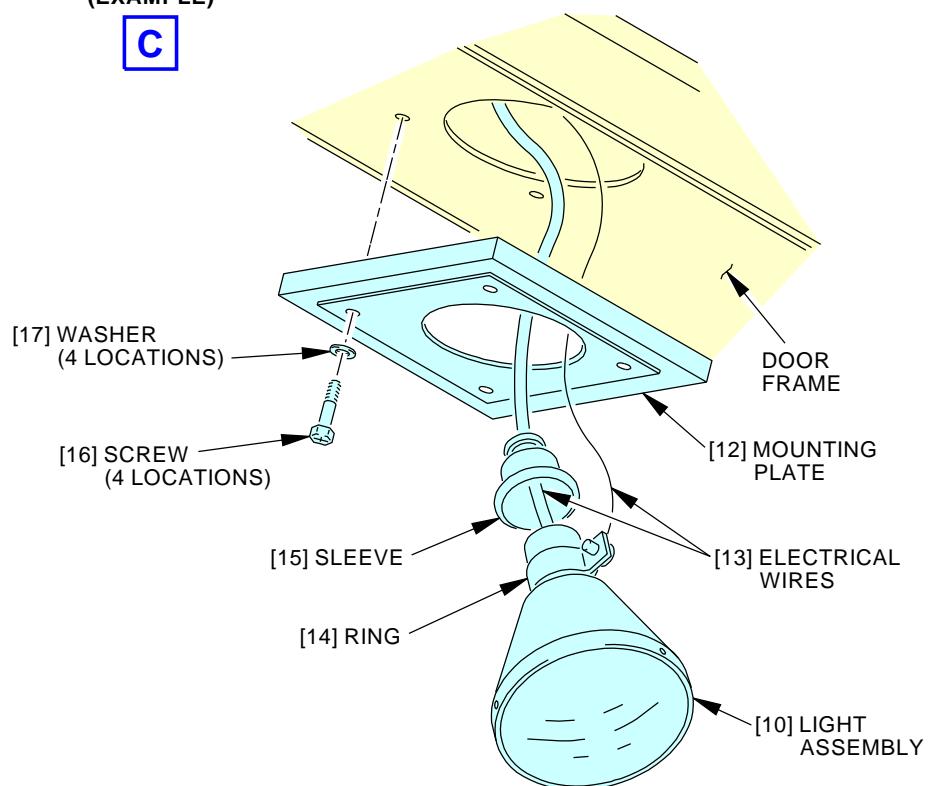
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**DOOR CARGO COMPARTMENT LIGHT
LAMP REPLACEMENT
(EXAMPLE)**

C



**DOOR CARGO COMPARTMENT LIGHT
LIGHT ASSEMBLY REPLACEMENT
(EXAMPLE)**

C

F45060 S0006576144_V2

Cargo Compartment Light - Lamp/Light Assembly Replacement
Figure 203/33-36-00-990-806 (Sheet 2 of 2)

EFFECTIVITY
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AKS 001-016 (Continued)

TASK 33-36-00-960-803

6. Cargo Compartment Light - Light 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)
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

Reference	Description	Specification
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

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Light assembly	33-36-00-11-025	AKS 001-016
		33-36-00-12-025	AKS 001-016
7	Lamp	33-36-00-15-010	AKS 001-016

D. Location Zones

Zone	Area
121	Forward Cargo Compartment - Left
122	Forward Cargo Compartment - Right
141	Aft Cargo Compartment - Left
142	Aft Cargo Compartment - Right

E. Access Panels

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

F. Procedure

SUBTASK 33-36-00-010-003

- (1) Open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 33-36-00-860-005

- (2) (WDM 33-36-11) (WDM 33-36-12)

EFFECTIVITY
AKS ALL

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AIRCRAFT MAINTENANCE MANUAL

AKS 001-016 (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 33-36-00-010-004

- (3) Open the applicable cargo door:

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

SUBTASK 33-36-00-010-008

- (4) Do this task:

- (a) Remove the lamp assembly close-out ring [8] by removing the four attachment screws [9].

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].
- (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 retaining stud [13].
- (c) Remove the screws [3] in the top of the light assembly.
 - 1) For access to the screws, remove the lamp [7].
- (d) Replace the light assembly [1].
- (e) Install the screws [3].
- (f) Install a new lamp [7].
- (g) 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].
 - 2) For the light assembly [1], position two ball studs [12] on the lens assembly [6] and attach with two retaining rings [11].
- (h) Connect the electrical connector [4].

SUBTASK 33-36-00-860-006

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

EFFECTIVITY
AKS ALL

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AIRCRAFT MAINTENANCE MANUAL

AKS 001-016 (Continued)

SUBTASK 33-36-00-860-007

- (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:

<u>Number</u>	<u>Name/Location</u>
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 close-out ring [8]:

- (a) If the foam gasket around the perimeter of the ring facing the ceiling panel is worn or missing, before attaching it, replace or repair the gasket as follows:

- 1) Remove any worn pieces of tape and clean the area with Limonene solvent, B00634

- 2) Cut sufficient lengths of seal, G50360 tape to create a gasket surface completely around the edge of the close-out ring [8].

- 3) Press the tape sections into place and trim to fit.

- (b) Attach the closeout ring using the four screws [9].

NOTE: Do not install tape over closeout ring.

SUBTASK 33-36-00-410-004

- (13) Close the applicable cargo door:

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

SUBTASK 33-36-00-860-008

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

———— END OF TASK ————

EFFECTIVITY
AKS ALL

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AIRCRAFT MAINTENANCE MANUAL

AKS 001-016 (Continued)

TASK 33-36-00-960-804

7. Cargo Compartment Light - Light Assembly Replacement, Door

(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
10	Light assembly	33-36-00-17-020	AKS 001-016

C. Location Zones

Zone	Area
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. Procedure

SUBTASK 33-36-00-010-005

- (1) Open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 33-36-00-860-009

- (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

EFFECTIVITY
AKS ALL

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AIRCRAFT MAINTENANCE MANUAL

AKS 001-016 (Continued)

SUBTASK 33-36-00-960-004

- (5) Do these steps to replace the light assembly:
- (a) Remove the screws [16] and washers [17] on the mounting plate [12].
 - (b) Pull the light assembly [10] away from the mounting plate [12].
 - (c) Loosen the ring [14] and move back the sleeve [15].
 - (d) Disconnect the electrical wires [13].
 - (e) Replace the light assembly [10].
 - (f) Connect the electrical wires [13] to the new light assembly [10].
 - (g) Move the sleeve [15] back to its initial position and tighten the ring [14].
 - (h) Put the light assembly [10] back in the mounting plate [12].
 - (i) Install the mounting plate [12] with the screws [16].

SUBTASK 33-36-00-860-010

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

SUBTASK 33-36-00-860-011

- (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:

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

SUBTASK 33-36-00-710-004

- (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 the light comes on.

- (b) Set the switch to the off mode.

- 1) Make sure the light goes off.

SUBTASK 33-36-00-410-006

- (10) Close the applicable cargo door:

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

SUBTASK 33-36-00-940-004

- (11) Remove the safety equipment.



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AKS 001-016 (Continued)

SUBTASK 33-36-00-860-012

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

— END OF TASK —

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	AKS 001-016

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):

- (a) 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.

- (b) Disconnect the lanyard [5] from the light assembly [1].

NOTE: The lens assembly stays attached to the lanyard [5].

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AKS ALL

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AKS 001-016 (Continued)

- (c) Replace the lens assembly [6] and the lanyard [5].
NOTE: A new lanyard [5] will be attached to the new lens assembly [6].
NOTE: The lanyard [5] is part of the retaining stud [13]
- (d) Connect the new lanyard [5] to the light assembly [1].
- (e) 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].

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 ————

AKS 017-999

TASK 33-36-00-960-806

9. Cargo Compartment Light - LED Light Assembly Replacement, Ceiling

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 33-36-11	Wiring Diagram Manual
WDM 33-36-12	Wiring Diagram Manual

B. Location Zones

Zone	Area
121	Forward Cargo Compartment - Left
122	Forward Cargo Compartment - Right



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AKS 017-999 (Continued)

(Continued)

Zone	Area
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. Procedure

SUBTASK 33-36-00-010-011

- (1) Open this access panel:

Number	Name/Location
--------	---------------

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

SUBTASK 33-36-00-860-017

- (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

Row	Col	Number	Name
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 this task 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 light assembly [1] to the bracket.
- Disconnect the electrical connectors.
- Replace the 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.

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AKS 017-999 (Continued)

SUBTASK 33-36-00-860-019

- (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 33-36-00-410-010

- (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

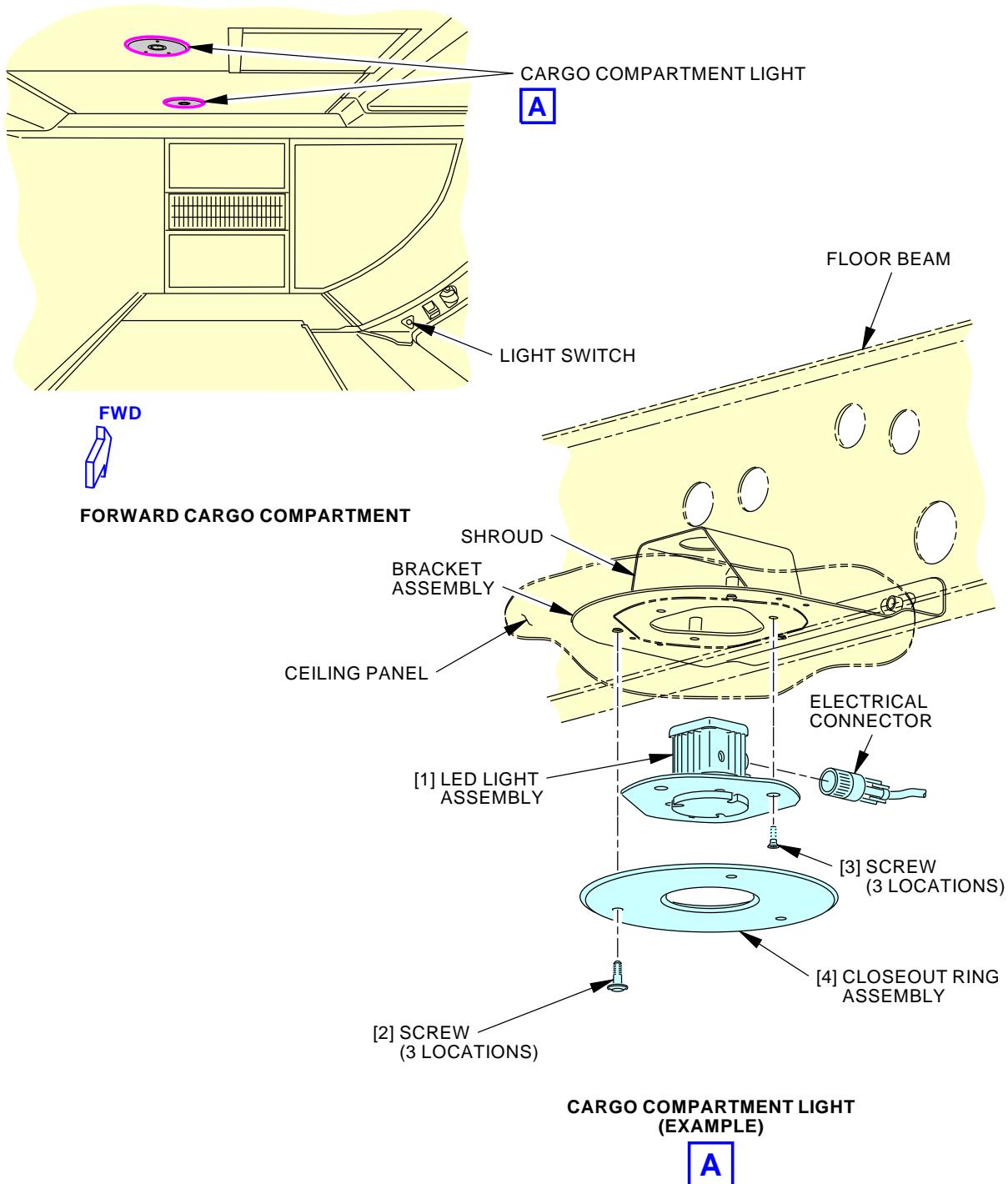
SUBTASK 33-36-00-860-020

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

———— END OF TASK ————



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Cargo Compartment Light - LED Light Assembly Replacement
Figure 204/33-36-00-990-804

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AIRCRAFT MAINTENANCE MANUAL

AKS 017-999 (Continued)

TASK 33-36-00-960-807

10. Cargo Compartment Light - LED Light Assembly Replacement, Door

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
122	Forward Cargo Compartment - Right
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. Procedure

SUBTASK 33-36-00-010-015

- (1) 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)

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 33-36-00-860-022

- (3) Set up the safety equipment.

SUBTASK 33-36-00-010-016

- (4) Open the applicable cargo door:

Number	Name/Location
821	Forward Cargo Door
822	Aft Cargo Door

SUBTASK 33-36-00-900-001

- (5) Do these steps to replace the LED light assembly [1] on the forward cargo compartment door sill:

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AKS 017-999 (Continued)

- (a) Remove the screws [2] and washers [3] from the light assembly [1].
- (b) Remove the light assembly [1], gasket [4] and spacers [5] from the door frame.
- (c) Disconnect the electrical connectors.
- (d) Remove the gasket [4 and spacers [5]] from the light assembly [1].
- (e) Replace the light assembly [1].
- (f) Put the gasket [4] between the light assembly [1] and the door panel with the cutout and mounting holes aligned.
- (g) Connect the electrical connectors to the new light assembly [1].
- (h) Insert spacers [5] into the gasket mounting holes.
- (i) Install the washers [3] and screws [2] to attach the light assembly [1] and gasket [4] to the door frame.

SUBTASK 33-36-00-900-002

- (6) Do these steps to replace the LED light assembly [1] on the aft cargo compartment door sill:
 - (a) Remove the screws [2] and washers [3] on the light assembly [1].
 - (b) Remove the light assembly [1] from the door frame.
 - (c) Disconnect the electrical connectors.
 - (d) Replace the light assembly [1].
 - (e) Connect the electrical connectors to the new light assembly [1].
 - (f) Install the washers [2] and screws [3] to attach the light assembly [1] to the door frame.

SUBTASK 33-36-00-860-023

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

SUBTASK 33-36-00-860-024

- (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 33-36-00-410-014

- (9) Close this access panel:

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

SUBTASK 33-36-00-710-007

- (10) 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 the light comes on.

- (b) Set the switch to the off mode.

- 1) Make sure the light goes off.

EFFECTIVITY
AKS ALL

33-36-00



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AKS 017-999 (Continued)

SUBTASK 33-36-00-410-015

- (11) Close the applicable cargo door:

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

SUBTASK 33-36-00-860-025

- (12) Remove the safety equipment.

SUBTASK 33-36-00-860-026

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

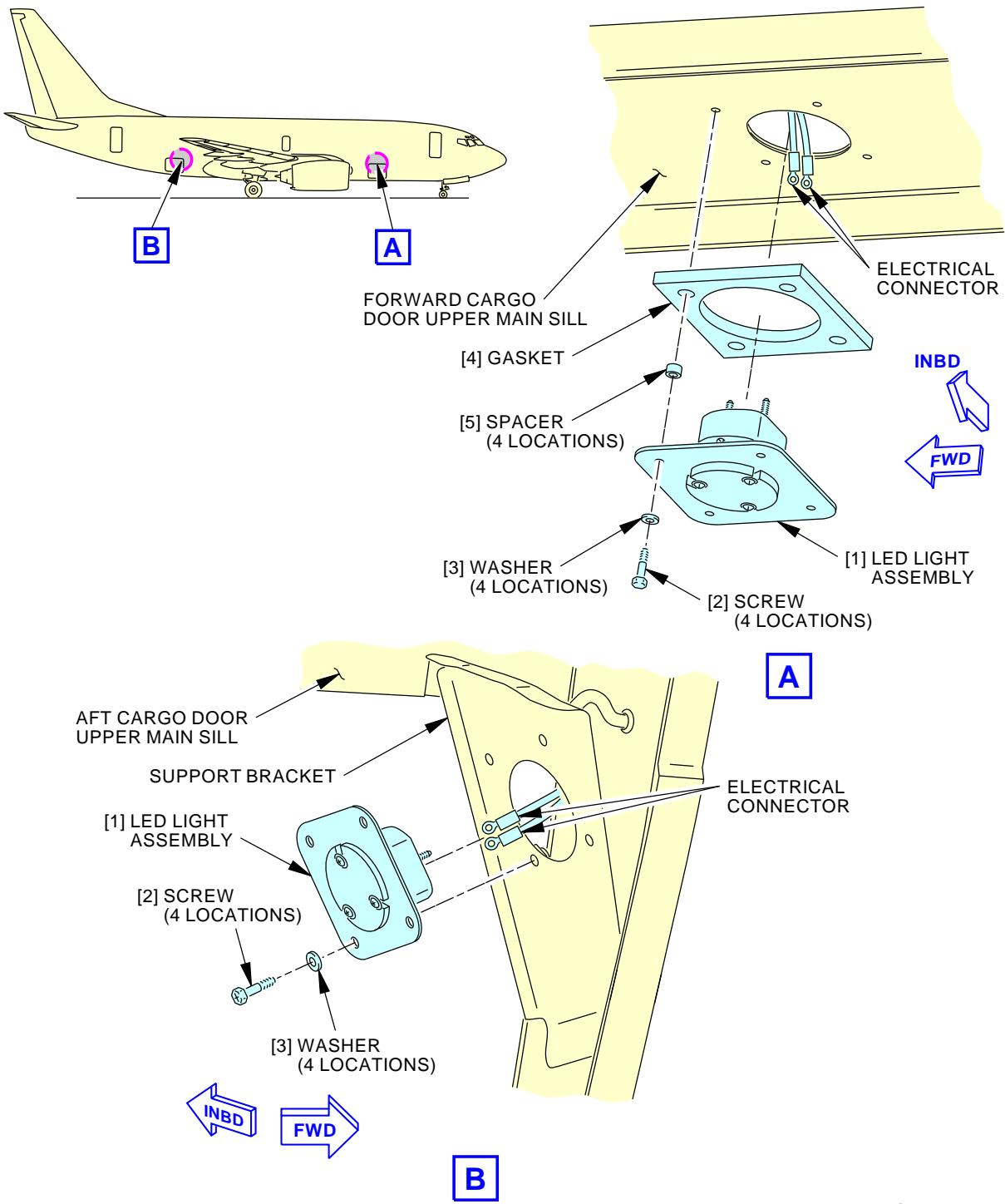
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EFFECTIVITY
AKS ALL

33-36-00



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2403287 S0000555005_V1

Cargo Compartment Light - Door Sill LED Light Assembly Replacement
Figure 205/33-36-00-990-805

EFFECTIVITY
AKS 017-999

33-36-00

D633A101-AKS

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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
 - (3) Wing Illumination Light - Lamp Replacement
 - (4) Wing Illumination Light - Transformer Replacement
 - (5) Wing Illumination Light - Light Assembly Replacement
 - (6) 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

<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 33-41-00-860-013

- (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>
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 ————

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.

EFFECTIVITY
AKS ALL

33-41-00



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AIRCRAFT MAINTENANCE MANUAL

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 33-41-00-860-014

- (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

————— END OF TASK ————

TASK 33-41-00-960-801

4. Wing Illumination 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)
WDM 33-41-11	Wiring Diagram Manual

B. Consumable Materials

Reference	Description	Specification
G01306	Gloves - Lint-free	
G02309	Material - Moldable Plastic Shim	BMS8-338

C. Location Zones

Zone	Area
230	Subzone - Passenger Compartment - Body Station 360.00 to 663.75

D. Procedure

SUBTASK 33-41-00-860-001

- (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 33-41-00-960-001

- (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) Remove screw [9], washer [11], retainer [7] from the lens assembly [2].

- (c) Replace the lamp [1].

EFFECTIVITY
AKS ALL

33-41-00



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AIRCRAFT MAINTENANCE MANUAL

- 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 shim thickness is no more than 0.125 in. (3.175 mm).
- (e) Install retainer [7] to the lens assembly [2] with screw [9] and washer [11].
- (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 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 33-41-00-860-003

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

SUBTASK 33-41-00-710-001

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

- (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 33-41-00-860-004

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

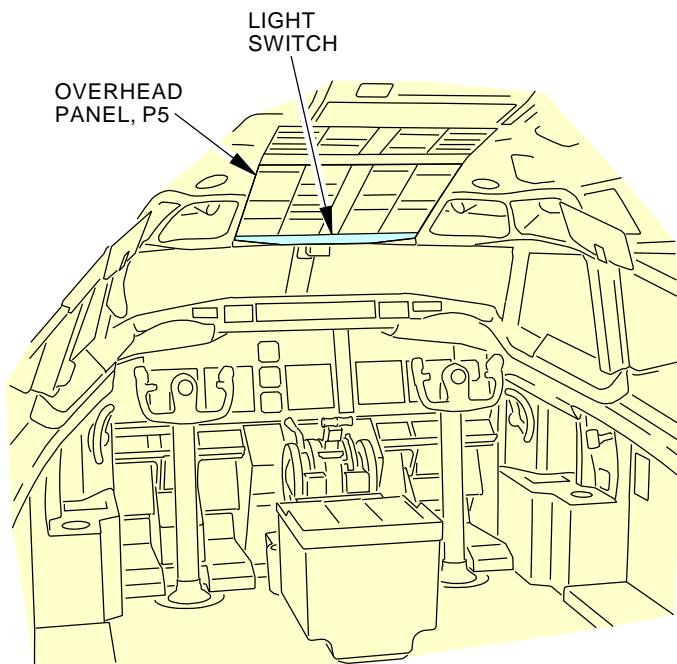
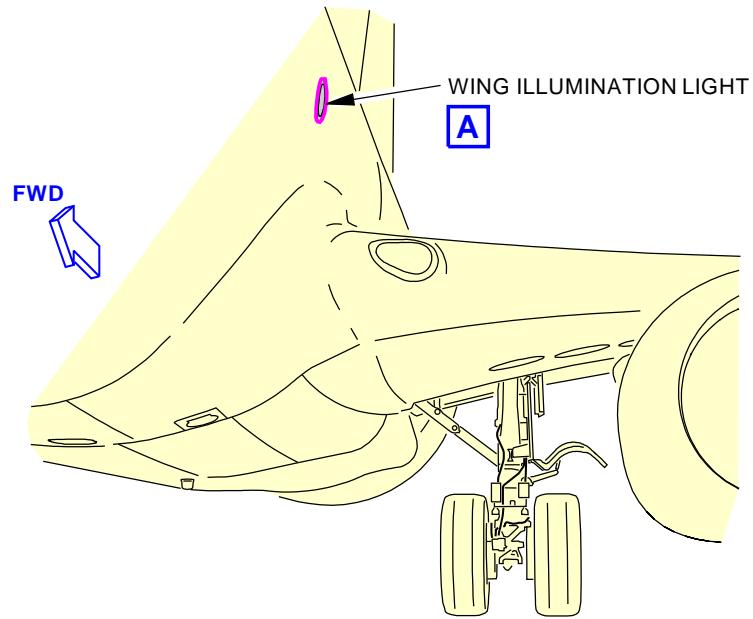
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EFFECTIVITY
AKS ALL

33-41-00



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AIRCRAFT MAINTENANCE MANUAL



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Wing Illumination Light - Lamp Replacement
Figure 201/33-41-00-990-801 (Sheet 1 of 2)

EFFECTIVITY
AKS ALL

33-41-00

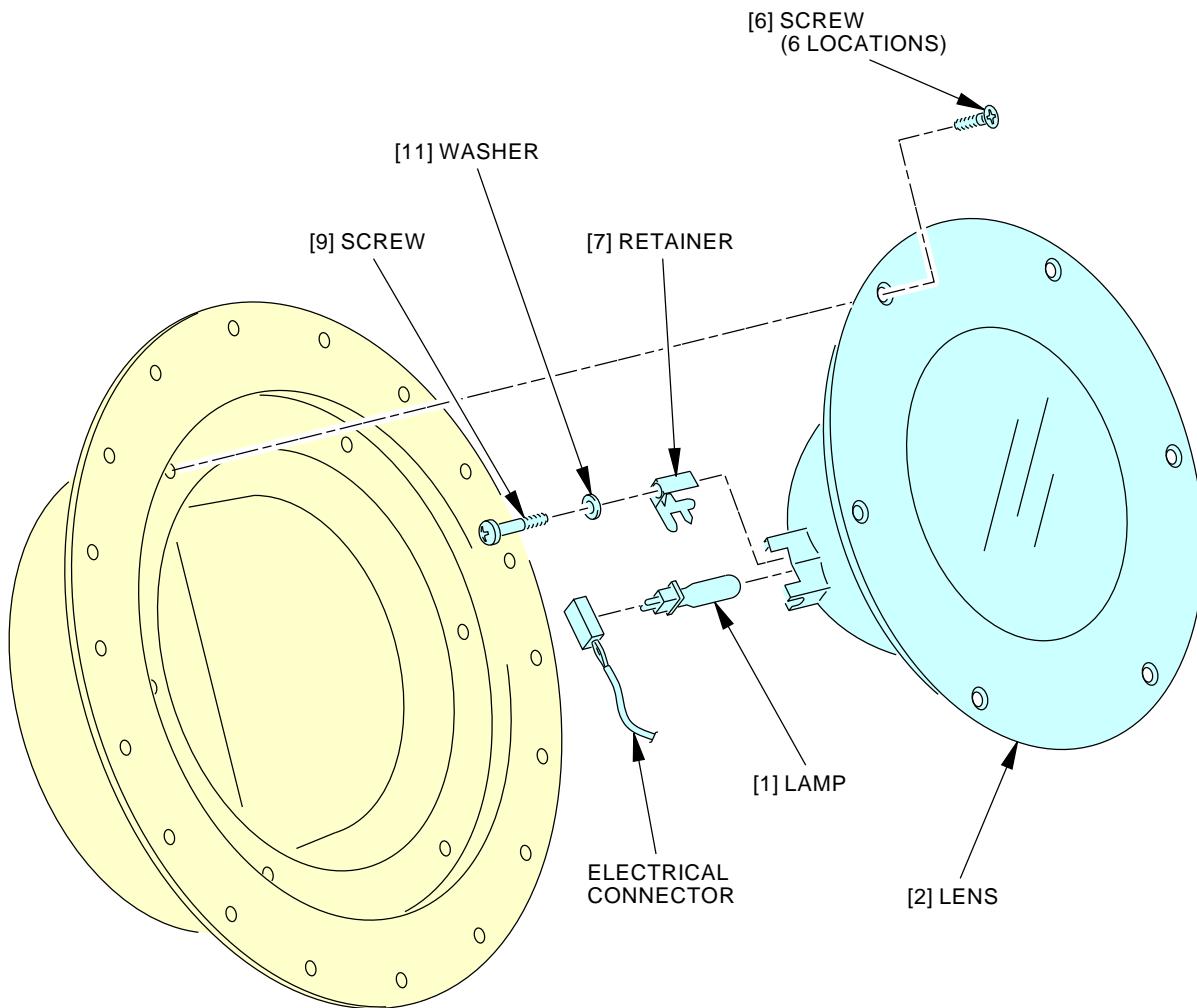
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WING ILLUMINATION LIGHT (LEFT SIDE IS SHOWN, RIGHT SIDE IS OPPOSITE)

A

F95656 S0006576155_V3

Wing Illumination Light - Lamp Replacement
Figure 201/33-41-00-990-801 (Sheet 2 of 2)

EFFECTIVITY
AKS ALL

33-41-00



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TASK 33-41-00-960-802

5. Wing Illumination Light - Transformer Replacement

(Figure 201, 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)
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 20-30-88/201) - Series 88	
G01306	Gloves - Lint-free	

D. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
21	Transformer	33-41-00-02-105	AKS ALL

E. Location Zones

Zone	Area
230	Subzone - Passenger Compartment - Body Station 360.00 to 663.75

F. Procedure

SUBTASK 33-41-00-020-001

- (1) 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 33-41-00-860-005

- (2) 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 33-41-00-010-001

- (3) Remove the sidewall panel inboard of the wing illumination light transformer. To remove it, do this task: Sidewall Panel - Removal, TASK 25-21-46-000-801.



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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 18 in-lb (2 N·m) to 21 in-lb (2 N·m).

- 1) Make sure 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 33-41-00-860-007

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

SUBTASK 33-41-00-710-002

- (10) Do a test of the new transformer.

- (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 33-41-00-410-001

- (11) To install the sidewall panel, do this task: Sidewall Panel - Installation, TASK 25-21-46-400-801.



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SUBTASK 33-41-00-860-008

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

———— END OF TASK ——

EFFECTIVITY
AKS ALL

33-41-00

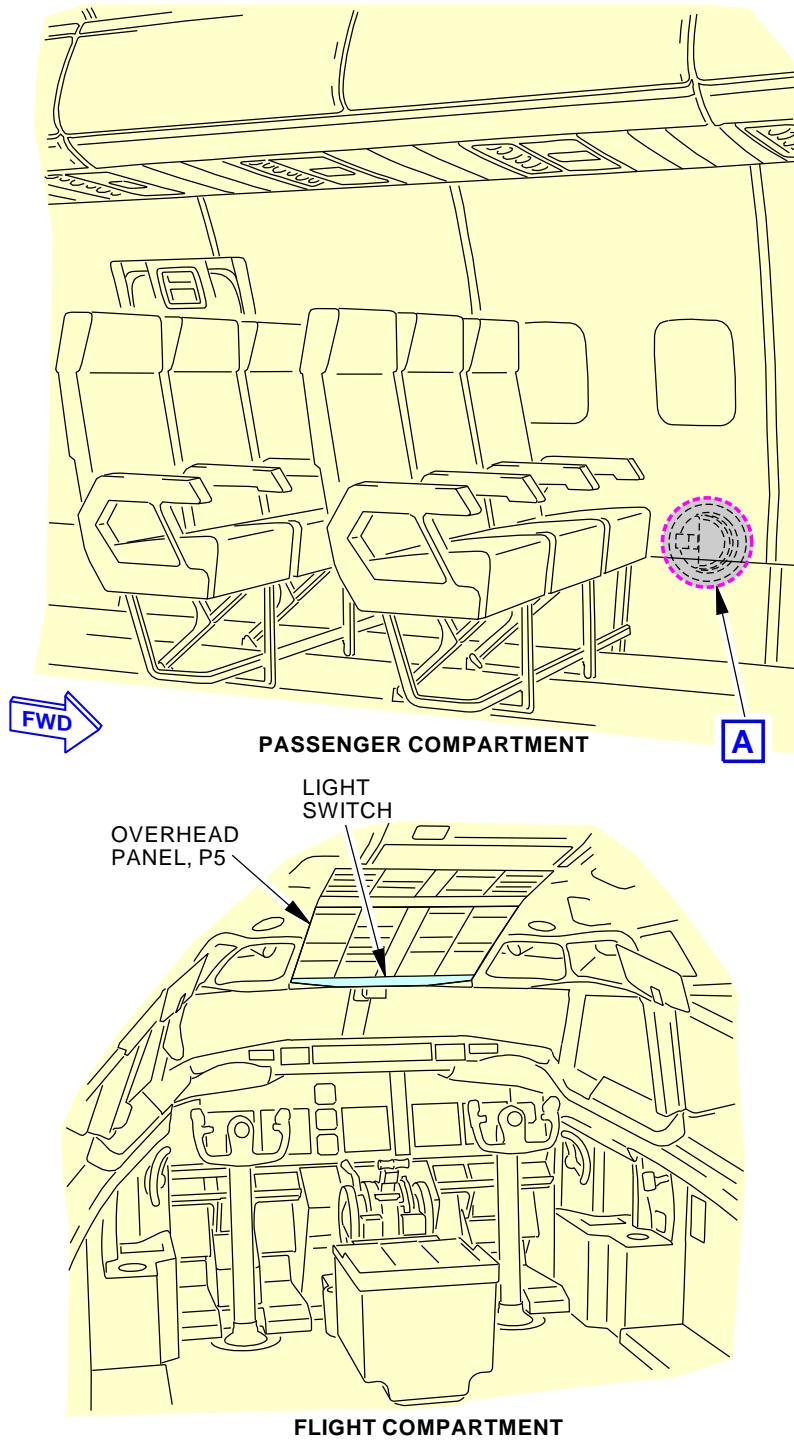
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AIRCRAFT MAINTENANCE MANUAL



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Wing Illumination Light - Transformer Replacement
Figure 202/33-41-00-990-802 (Sheet 1 of 2)

EFFECTIVITY
AKS ALL

33-41-00

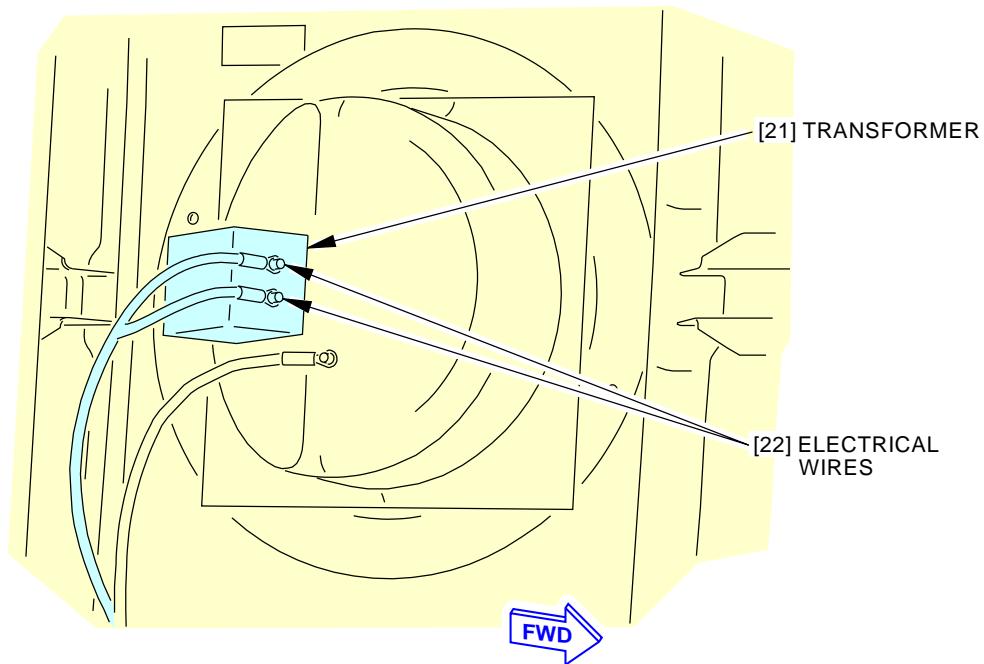
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737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL



WING ILLUMINATION LIGHT TRANSFORMER
(STA 430 **1**; STA 470 **2**; STA 500C+11 **3**; STA 500+11 **4**)
(LEFT SIDE IS SHOWN, RIGHT SIDE IS OPPOSITE)

A

- 1** 737-600
- 2** 737-700
- 3** 737-800
- 4** 737-900

K32895 S0006576160_V2

Wing Illumination Light - Transformer Replacement
Figure 202/33-41-00-990-802 (Sheet 2 of 2)

EFFECTIVITY
AKS ALL

33-41-00

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AIRCRAFT MAINTENANCE MANUAL

TASK 33-41-00-960-803

6. 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
AKS 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.

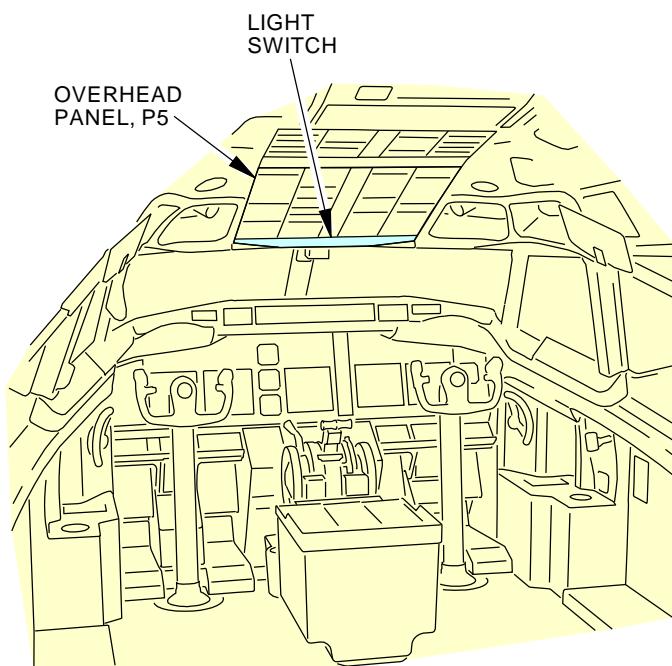
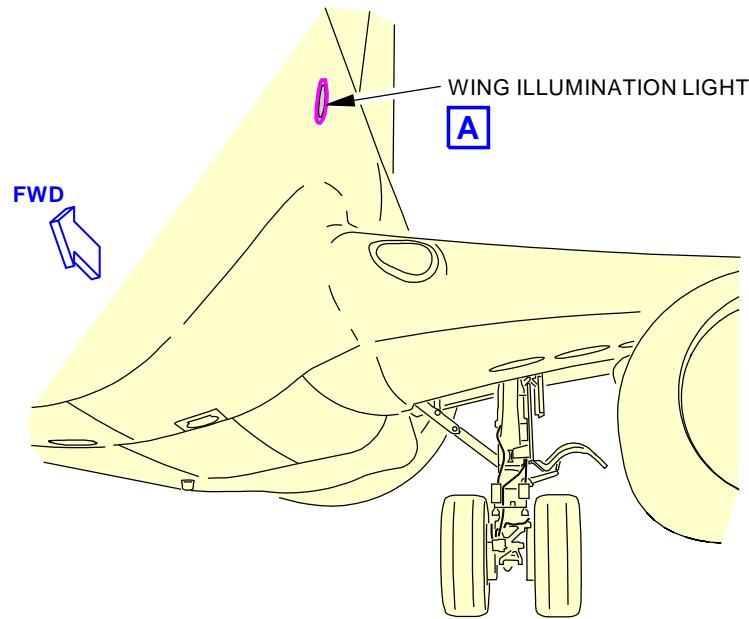
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EFFECTIVITY
AKS ALL

33-41-00



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FLIGHT COMPARTMENT

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Wing Illumination Light - Light Assembly Replacement
Figure 203/33-41-00-990-803 (Sheet 1 of 2)

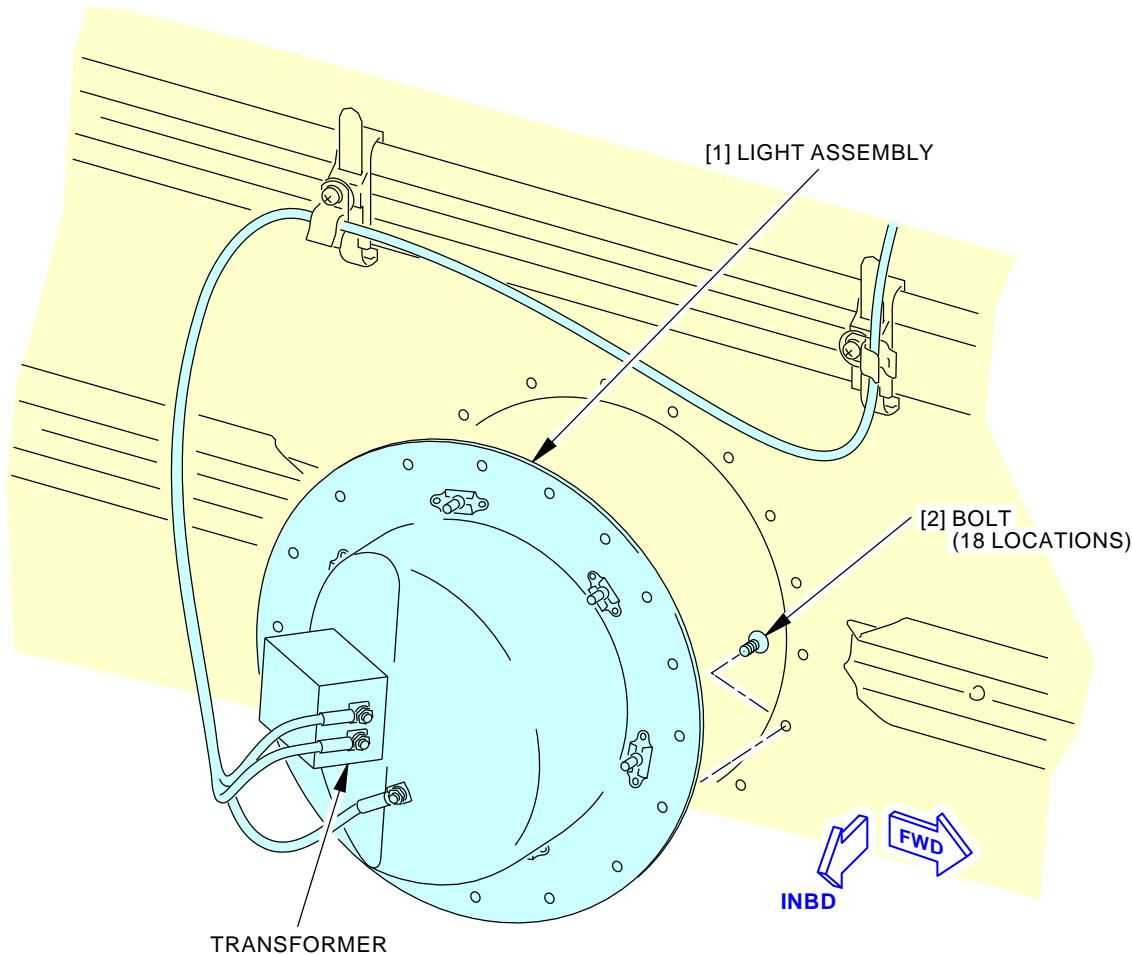
EFFECTIVITY
AKS ALL

33-41-00

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WING ILLUMINATION LIGHT ASSEMBLY

A

2338619 S0000531974_V2

Wing Illumination Light - Light Assembly Replacement
Figure 203/33-41-00-990-803 (Sheet 2 of 2)EFFECTIVITY
AKS ALL**33-41-00**

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AIRCRAFT MAINTENANCE MANUAL

TASK 33-41-00-710-801

7. 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 ————





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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

AKS 018-999

- (3) Fixed Landing Light - Main Array Assembly Replacement
- (4) Fixed Landing Light - Power Supply Replacement

AKS 001-017

- (5) Fixed Landing Light - Lamp Replacement
- (6) Fixed Landing Light - Light Beam Adjustment
- (7) Fixed Landing Light - Transformer Replacement

AKS ALL

- (8) Fixed Landing Light - Lens Temporary Repair

AKS 018-999

- B. The Main Array assemblies are used for both Landing and Taxi light functions.

AKS 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

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 33-42-01-860-031

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

CAPT Electrical System Panel, P18-3

Row **Col** **Number** **Name**

AKS 018-999

B 14 C01968 EXTERIOR LIGHTING LTRTL - RIGHT

AKS 001-017

B 15 C00271 EXTERIOR LIGHTING LANDING LEFT FIXED

AKS 018-999

B 15 C01969 EXTERIOR LIGHTING LTRTL - LEFT

EFFECTIVITY	AKS ALL
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33-42-01



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AKS 018-999 (Continued)

(Continued)

CAPT Electrical System Panel, P18-3

Row Col Number Name

AKS 001-017

C 14 C00272 EXTERIOR LIGHTING LANDING RIGHT FIXED

AKS ALL

D 12 C01518 EXTERIOR LIGHTING GENERAL LIGHT CONT

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 ————

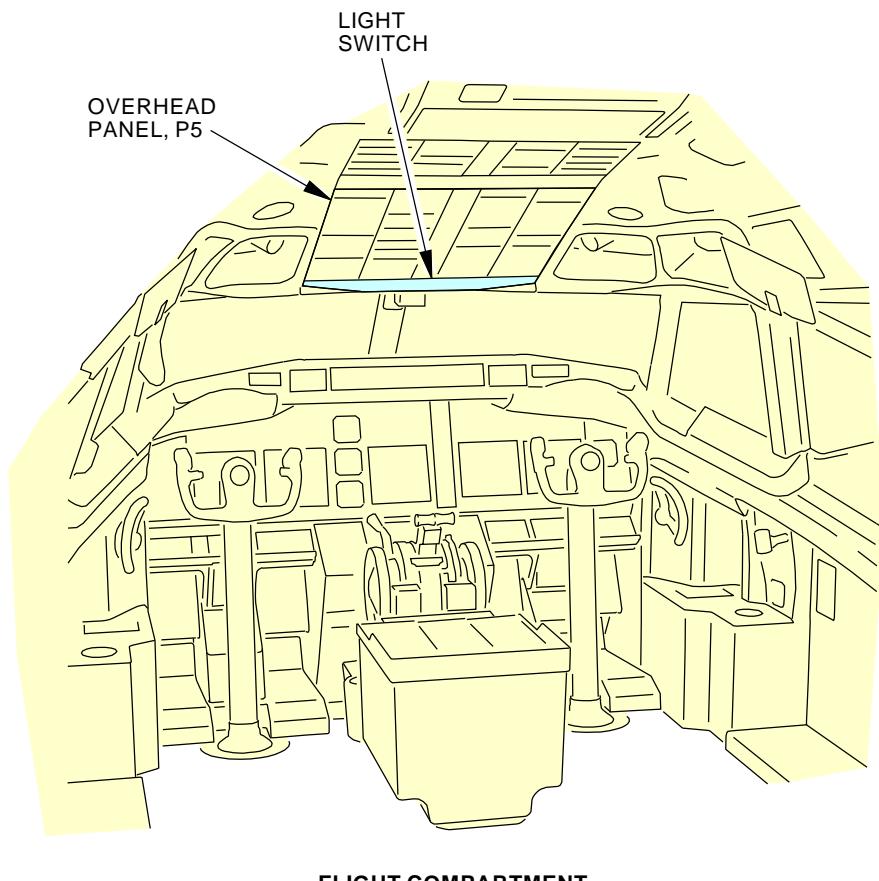
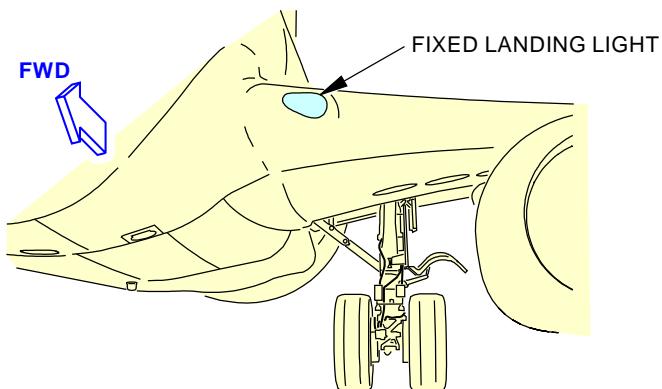
EFFECTIVITY
AKS ALL

33-42-01

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Fixed Landing Lights
Figure 201/33-42-01-990-807

EFFECTIVITY
AKS ALL

33-42-01



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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
AKS 018-999			
B	14	C01968	EXTERIOR LIGHTING LTRTL - RIGHT
AKS 001-017			
B	15	C00271	EXTERIOR LIGHTING LANDING LEFT FIXED
AKS 018-999			
B	15	C01969	EXTERIOR LIGHTING LTRTL - LEFT
AKS 001-017			
C	14	C00272	EXTERIOR LIGHTING LANDING RIGHT FIXED
AKS ALL			
D	12	C01518	EXTERIOR LIGHTING GENERAL LIGHT CONT

————— END OF TASK ————

AKS 018-999

TASK 33-42-01-960-803

4. Fixed Landing Light - Main Array Assembly Replacement

(Figure 202)

A. General

- (1) This procedure contains the steps 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)
24-22-00-860-812	Remove Electrical Power (P/B 201)
27-51-00-040-801	Trailing Edge Flap System Deactivation (P/B 201)



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AIRCRAFT MAINTENANCE MANUAL

AKS 018-999 (Continued)

(Continued)

Reference	Title
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 Meters - 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 #: C15292 (MODEL T477W) Supplier: 01014 Part #: M1 Supplier: 3AD17 Opt Part #: M1B Supplier: 3AD17

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. Location Zones

Zone	Area
511	Left Wing - Leading Edge To Front Spar
611	Right Wing - Leading Edge to Front Spar

F. Prepare for the Replacement.

SUBTASK 33-42-01-860-035

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.

EFFECTIVITY
AKS ALL

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AIRCRAFT MAINTENANCE MANUAL

AKS 018-999 (Continued)

SUBTASK 33-42-01-860-036

- (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>
B	14	C01968	EXTERIOR LIGHTING LTRTL - RIGHT
B	15	C01969	EXTERIOR LIGHTING LTRTL - LEFT
D	12	C01518	EXTERIOR LIGHTING GENERAL LIGHT CONT

SUBTASK 33-42-01-910-001

- (3) Before you touch the main array, do the procedure for devices that are sensitive to electrostatic discharge (ESDS Handling for Printed Circuit Board Removal, TASK 20-40-12-000-801).

G. Procedure

SUBTASK 33-42-01-010-004

- (1) Loosen the studs [4] and remove the lens assembly [3].

NOTE: The lanyard [5] stays connected.

NOTE: Keep the lens assembly [3] and lanyard [5] away from the wing leading edge.

SUBTASK 33-42-01-020-003

- (2) Do these steps to replace the main array:

- (a) Remove the nuts [7], washers [6] and jumpers [8].
- (b) Remove the screws [9] and washers [10].
- (c) Remove the screws [12] and washers [11] to disconnect the inboard and outboard array assemblies.
- (d) Remove the inboard array assembly [1] from the bracket.
- (e) Disconnect the electrical connector [13] from the inboard array assembly [1].
- (f) Remove the outboard array assembly [2] from the bracket.
- (g) Disconnect the electrical connector [13] from the outboard array assembly [2].
- (h) Connect the electrical connector [13] to the new outboard array assembly [2].
- (i) Install the new outboard array assembly [2] to the bracket.
- (j) Install the screws [9] and washers [10] for the outboard array assembly.

NOTE: Install the fasteners loose.

- (k) Connect the electrical connector [13] to the new inboard array assembly [1].
- (l) Install the new inboard array assembly [1] into the bracket.

- (m) Install the screws [9] and washers [10] for the inboard array assembly.

NOTE: Install the fasteners loose.

- (n) Install the screws [12] and washers [11] to connect the inboard and outboard array assemblies.

- 1) Tighten the screws [12] and screws [9] to 35 in-lb (3.95 N·m) - 36 in-lb (4.07 N·m).

- (o) Apply sealant, A50231 to the contacts of the washers [6], nuts [7] and jumpers [8].

- (p) Install the jumpers [8], nuts [7] and washers [6].

- 1) Tighten the nuts [7] to 28 in-lb (3.16 N·m) - 35 in-lb (3.95 N·m).

EFFECTIVITY
AKS ALL

33-42-01



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AIRCRAFT MAINTENANCE MANUAL

AKS 018-999 (Continued)

SUBTASK 33-42-01-910-002

- (3) Measure the electrical bonding resistance using an intrinsically safe approved bonding meter, COM-1550 between the jumpers [8] and the fuselage (SWPM 20-20-00).
 - (a) Make sure that the bonding resistance is less than 0.0010 ohms.

SUBTASK 33-42-01-860-037

- (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 33-42-01-860-038

- (5) 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 33-42-01-710-004

WARNING: DO NOT LOOK DIRECTLY AT LIGHTS. HIGH INTENSITY OF LIGHTS CAN CAUSE EYE DAMAGE.

- (6) Do a test of the main arrays.
 - (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.
 - 1) Make sure that the left and right main arrays go off.

SUBTASK 33-42-01-410-004

- (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.
 - 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.
NOTE: 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.
NOTE: Make no other cuts to the tape.

EFFECTIVITY
AKS ALL

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AKS 018-999 (Continued)

- (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 33-42-01-860-039

- (1) Do these steps to reactivate the leading edge flaps and slats:
 - (a) If Trailing Edge Flap System Deactivation, TASK 27-51-00-040-801 was performed to deactivate the leading edge flaps and slats, do this task: Trailing Edge Flap System Reactivation, TASK 27-51-00-440-801.
 - (b) If Leading Edge Flaps and Slats - Deactivation, TASK 27-81-00-040-801 was performed to deactivate the leading edge flaps and slats, do this task: Leading Edge Flaps and Slats - Activation, TASK 27-81-00-440-801.

SUBTASK 33-42-01-860-040

- (2) 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 ————

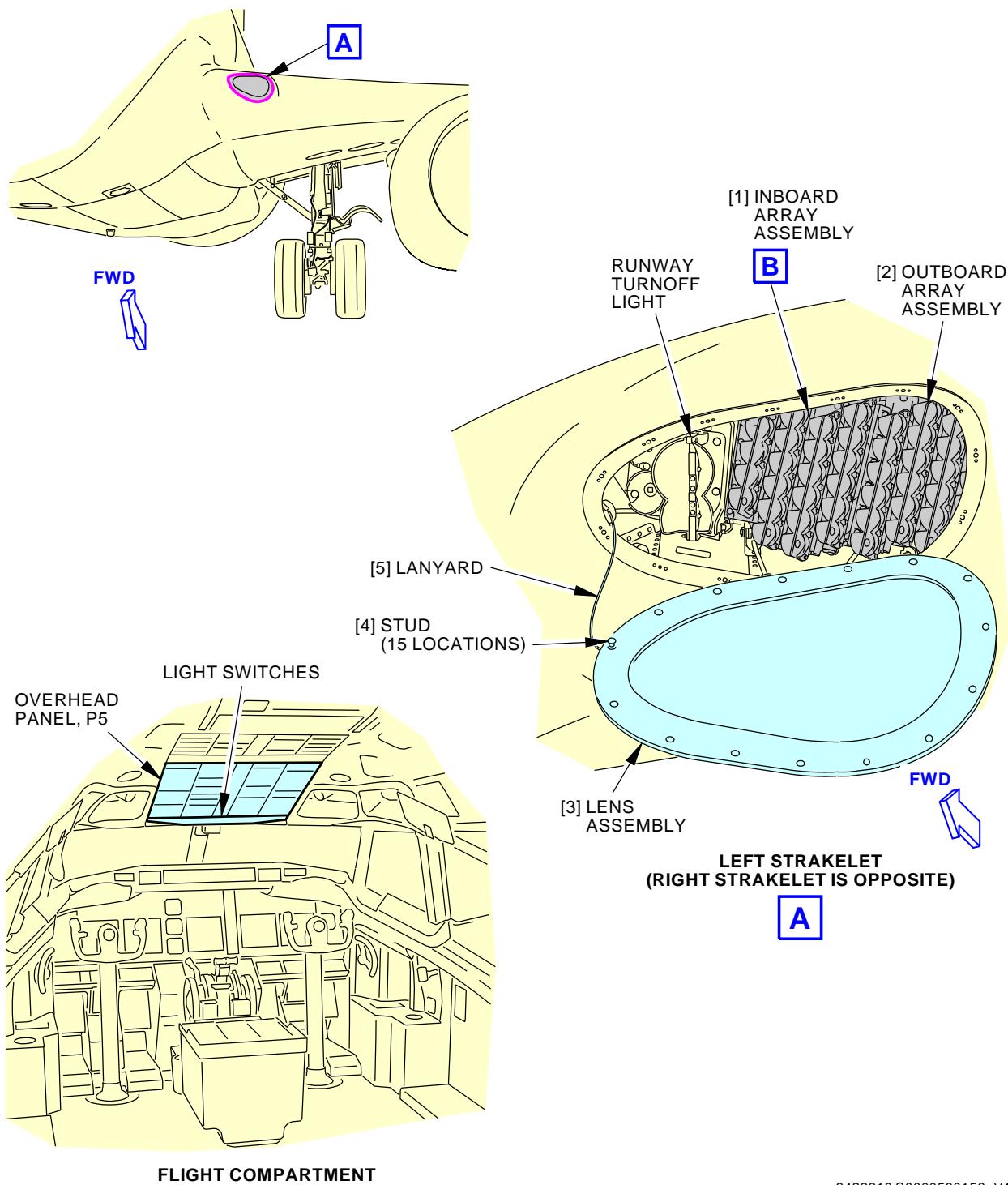
EFFECTIVITY
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33-42-01

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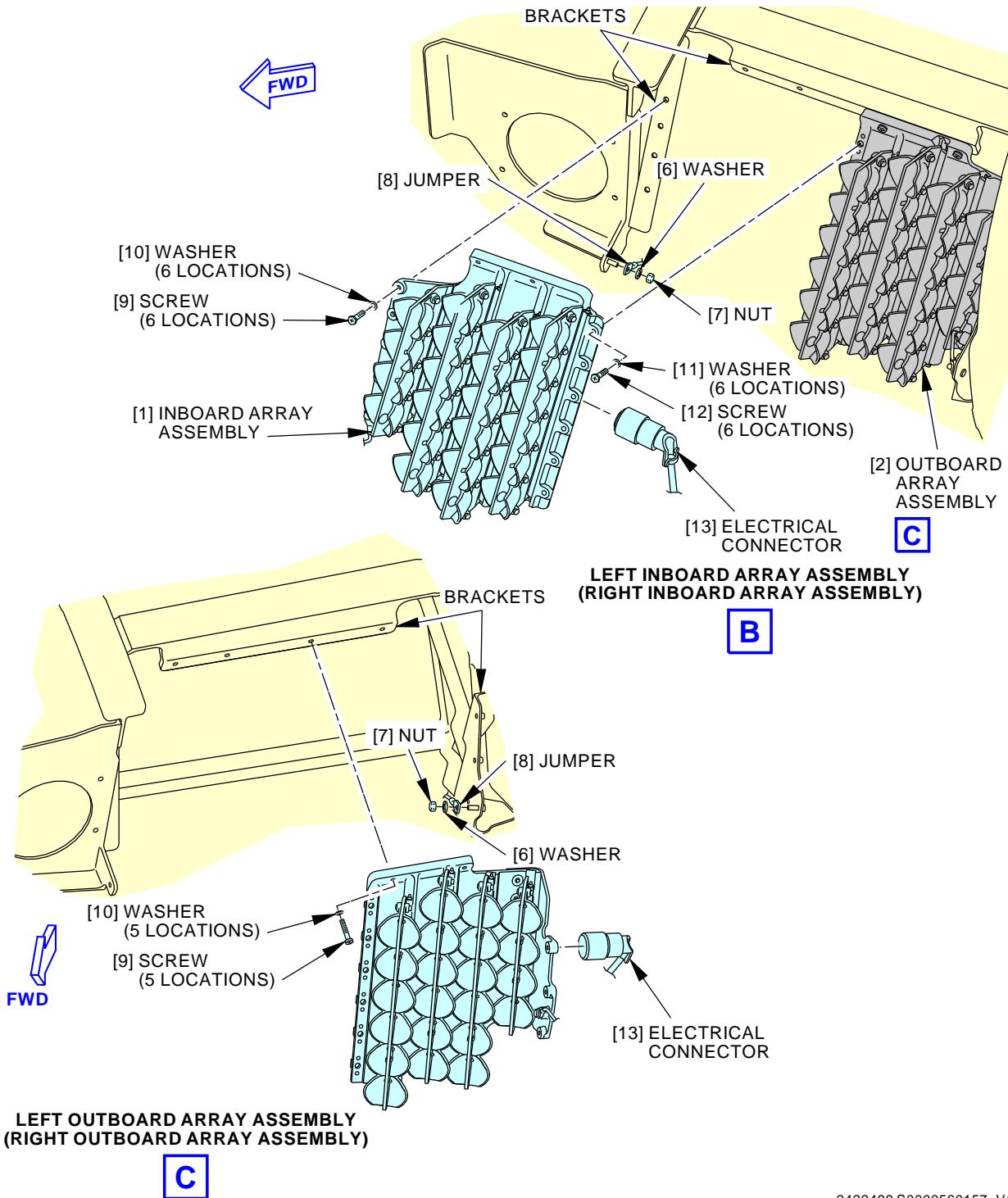
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Fixed Landing Light - Main Array Assembly Replacement
Figure 202/33-42-01-990-809 (Sheet 1 of 2)

 EFFECTIVITY
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Fixed Landing Light - Main Array Assembly Replacement
Figure 202/33-42-01-990-809 (Sheet 2 of 2)

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AIRCRAFT MAINTENANCE MANUAL

AKS 018-999 (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.
- (2) The power supply provides power and control to the main array and runway turnoff light assemblies.
- (3) The power supply 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 Meters - 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 #: C15292 (MODEL T477W) Supplier: 01014 Part #: M1 Supplier: 3AD17 Opt Part #: M1B Supplier: 3AD17

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. Location Zones

Zone	Area
511	Left Wing - Leading Edge To Front Spar
611	Right Wing - Leading Edge to Front Spar



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AKS 018-999 (Continued)

F. 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

<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 33-42-01-010-005

- (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, do the procedure for devices that are sensitive to electrostatic discharge (ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802).

G. Procedure

SUBTASK 33-42-01-020-004

- (1) Do these steps to replace the power supply:
- Remove the nut [17], washer [18] and jumper [19].
 - Remove the bolts [15] and washers [16].
 - Remove the power supply [14] from the bracket.
 - Disconnect the electrical connectors [20] from the power supply [14].
 - Connect the electrical connectors [20] to the new power supply [14].
 - Install the new power supply [14] to the bracket.
 - Install the bolts [15] and washers [16].
 - Tighten the bolts [15] to 35 in-lb (3.95 N·m) - 36 in-lb (4.07 N·m).
 - Apply sealant, A50231 to the contacts of the nut [17], washer [18] and jumper [19].
 - Install the nut [17], washer [18] and jumper [19].



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AKS 018-999 (Continued)

- 1) Tighten 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 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

<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 33-42-01-860-044

- (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.
 - 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.

EFFECTIVITY	AKS ALL
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AIRCRAFT MAINTENANCE MANUAL

AKS 018-999 (Continued)

- (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:
 - (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.
NOTE: 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.
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 33-42-01-860-045

- (1) Do these steps to reactivate the leading edge flaps and slats:
 - (a) If Trailing Edge Flap System Deactivation, TASK 27-51-00-040-801 was performed to deactivate the leading edge flaps and slats, do this task: Trailing Edge Flap System Reactivation, TASK 27-51-00-440-801.
 - (b) If Leading Edge Flaps and Slats - Deactivation, TASK 27-81-00-040-801 was performed to deactivate the leading edge flaps and slats, do this task: Leading Edge Flaps and Slats - Activation, TASK 27-81-00-440-801.

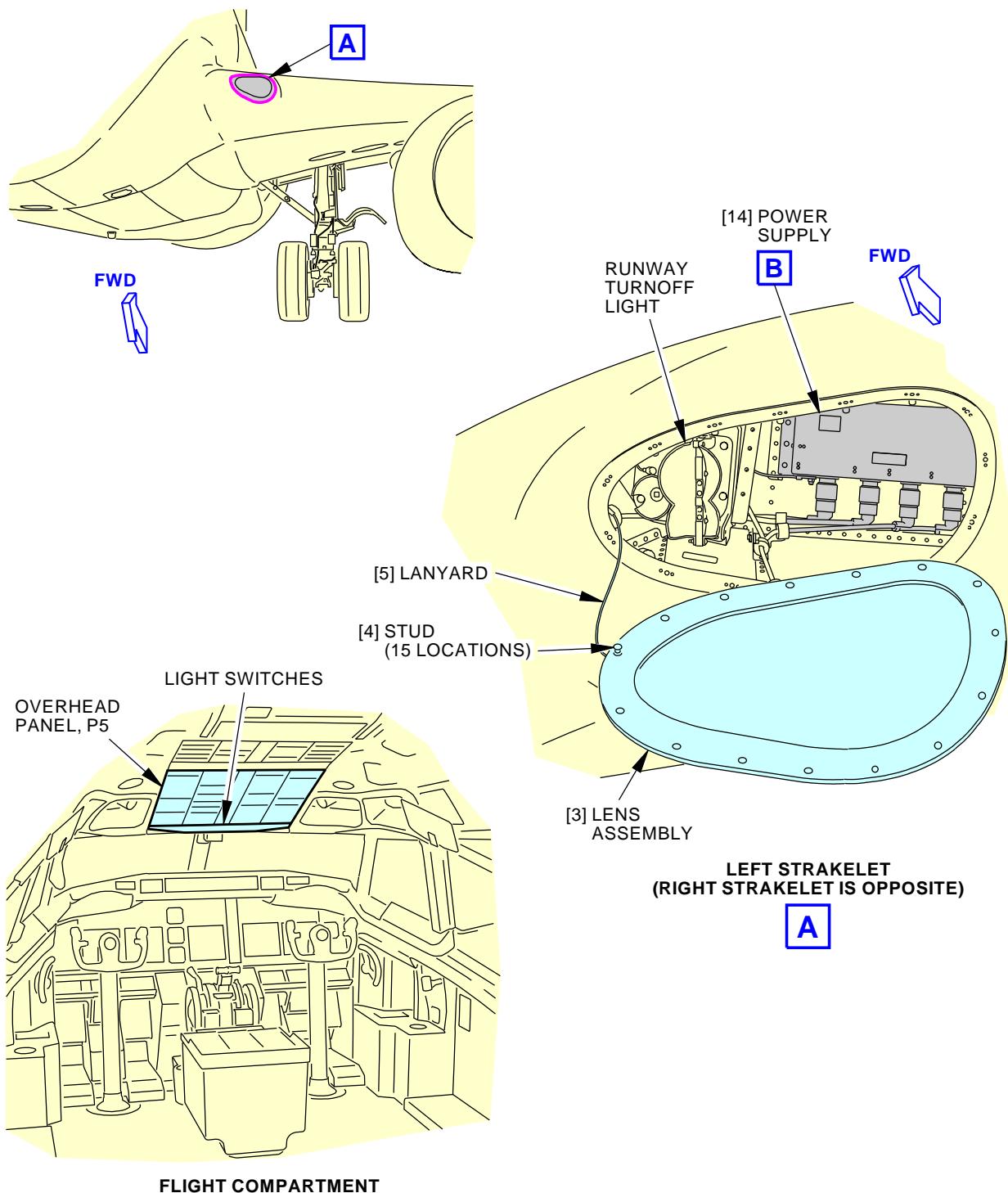
SUBTASK 33-42-01-860-046

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

———— END OF TASK ———

EFFECTIVITY
AKS ALL

33-42-01



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Fixed Landing Light - Power Supply Assembly Replacement
Figure 203/33-42-01-990-810 (Sheet 1 of 2)

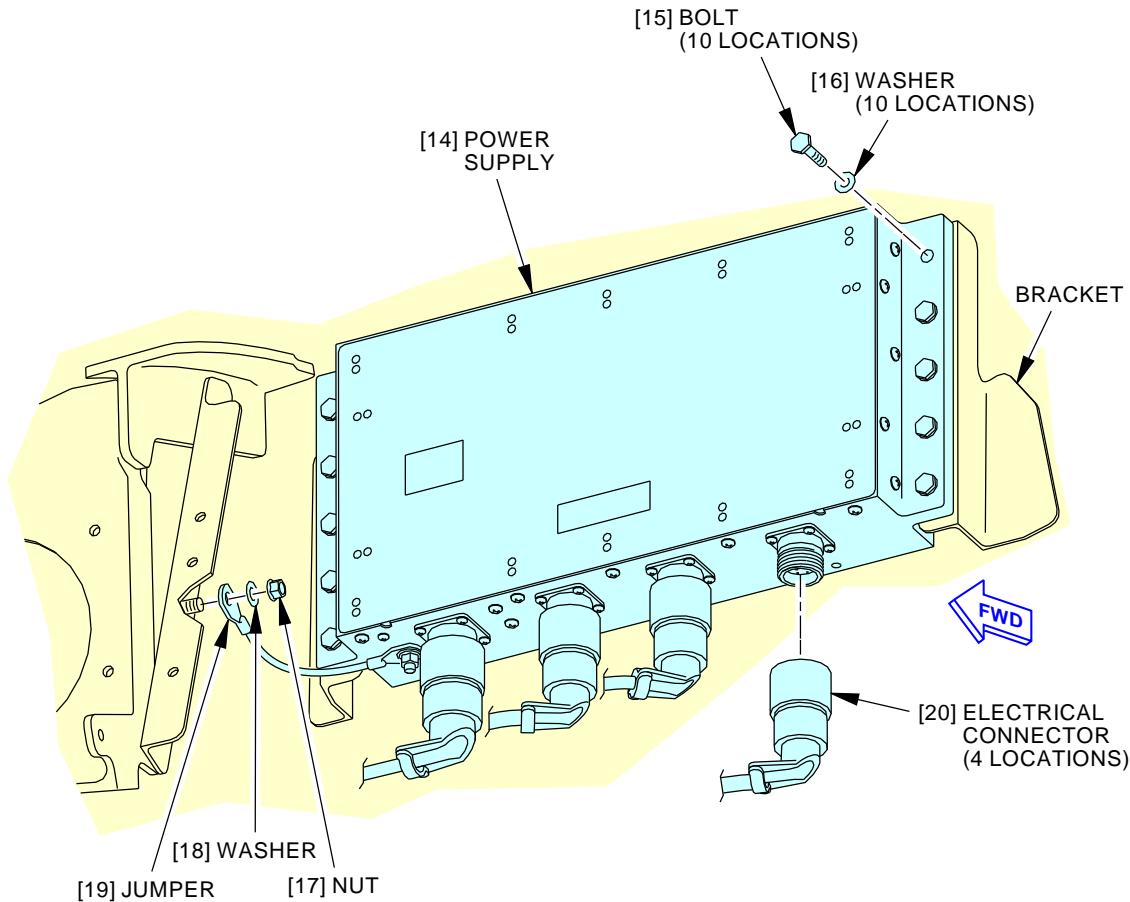
 EFFECTIVITY
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LEFT POWER SUPPLY
(RIGHT POWER SUPPLY IS OPPOSITE)

B

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Fixed Landing Light - Power Supply Assembly Replacement
Figure 203/33-42-01-990-810 (Sheet 2 of 2)

EFFECTIVITY
AKS 018-999

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AKS 001-017

TASK 33-42-01-960-801

6. Fixed Landing 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)
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
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	AKS 001-017

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.

EFFECTIVITY
AKS ALL

33-42-01



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AKS 001-017 (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. Procedure

SUBTASK 33-42-01-010-001

- (1) 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 33-42-01-960-001

- (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 the lamp filament is in the horizontal position.

CAUTION: 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 the notch in the retainer assembly is near the top of the lamp.

- 2) Tighten the screws by hand.

EFFECTIVITY
AKS ALL

33-42-01



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AIRCRAFT MAINTENANCE MANUAL

AKS 001-017 (Continued)

SUBTASK 33-42-01-860-004

- (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	15	C00271	EXTERIOR LIGHTING LANDING LEFT FIXED
C	14	C00272	EXTERIOR LIGHTING LANDING RIGHT FIXED

SUBTASK 33-42-01-860-024

- (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.

SUBTASK 33-42-01-710-001

- (5) 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 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 the light goes off.

SUBTASK 33-42-01-410-001

- (6) 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 .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 newton-meters).

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 Trailing Edge Flap System Deactivation, TASK 27-51-00-040-801 was performed to deactivate the leading edge flaps and slats, do this task: Trailing Edge Flap System Reactivation, TASK 27-51-00-440-801.
- (b) If Leading Edge Flaps and Slats - Deactivation, TASK 27-81-00-040-801 was performed to deactivate the leading edge flaps and slats, do this task: Leading Edge Flaps and Slats - Activation, TASK 27-81-00-440-801.

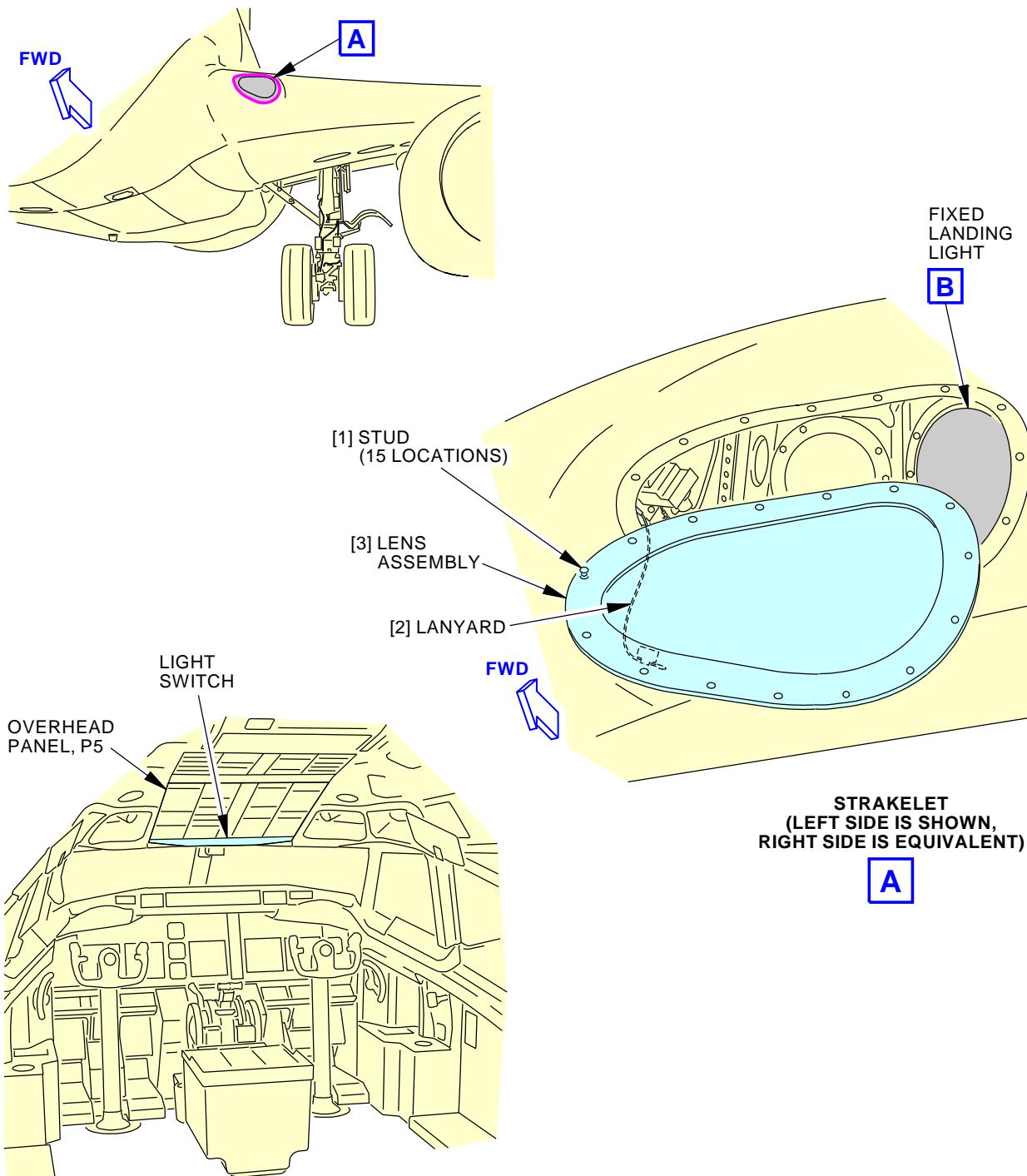
SUBTASK 33-42-01-860-006

- (2) 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
AKS ALL

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Fixed Landing Light - Lamp Replacement
Figure 204/33-42-01-990-801 (Sheet 1 of 2)

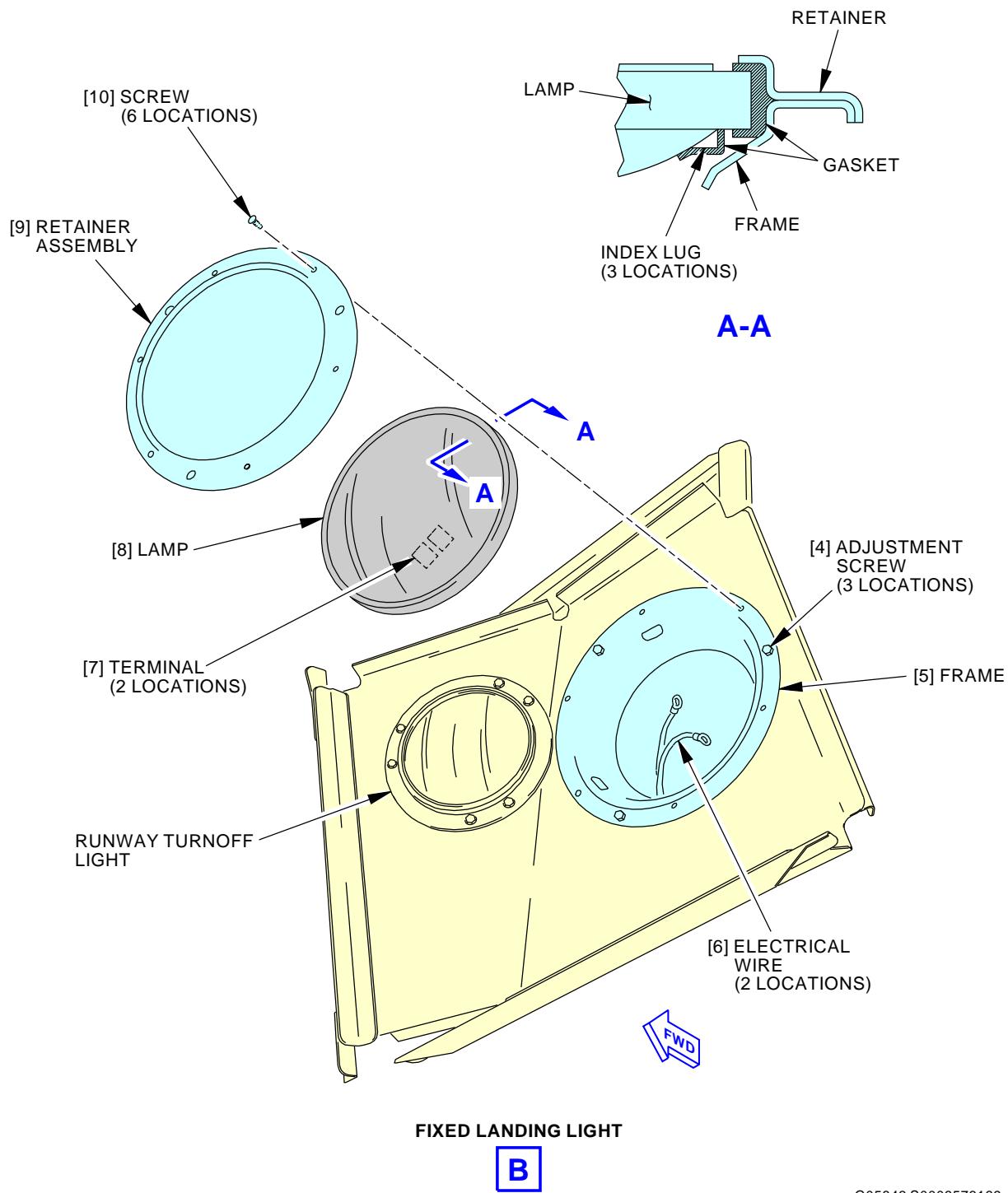
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G05843 S0006576169_V2

Fixed Landing Light - Lamp Replacement
Figure 204/33-42-01-990-801 (Sheet 2 of 2)

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AKS 001-017 (Continued)

TASK 33-42-01-820-801

7. Fixed Landing 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. Consumable Materials

Reference	Description	Specification
G50066	Tape - Thick Ribbed Tape with Adhesive (Skyflex GSC-21-95241-011)	

C. Location Zones

Zone	Area
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.

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.

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AKS 001-017 (Continued)

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

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 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 Trailing Edge Flap System Deactivation, TASK 27-51-00-040-801 was performed to deactivate the leading edge flaps and slats, do this task: Trailing Edge Flap System Reactivation, TASK 27-51-00-440-801.

(b) If Leading Edge Flaps and Slats - Deactivation, TASK 27-81-00-040-801 was performed to deactivate the leading edge flaps and slats, 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.

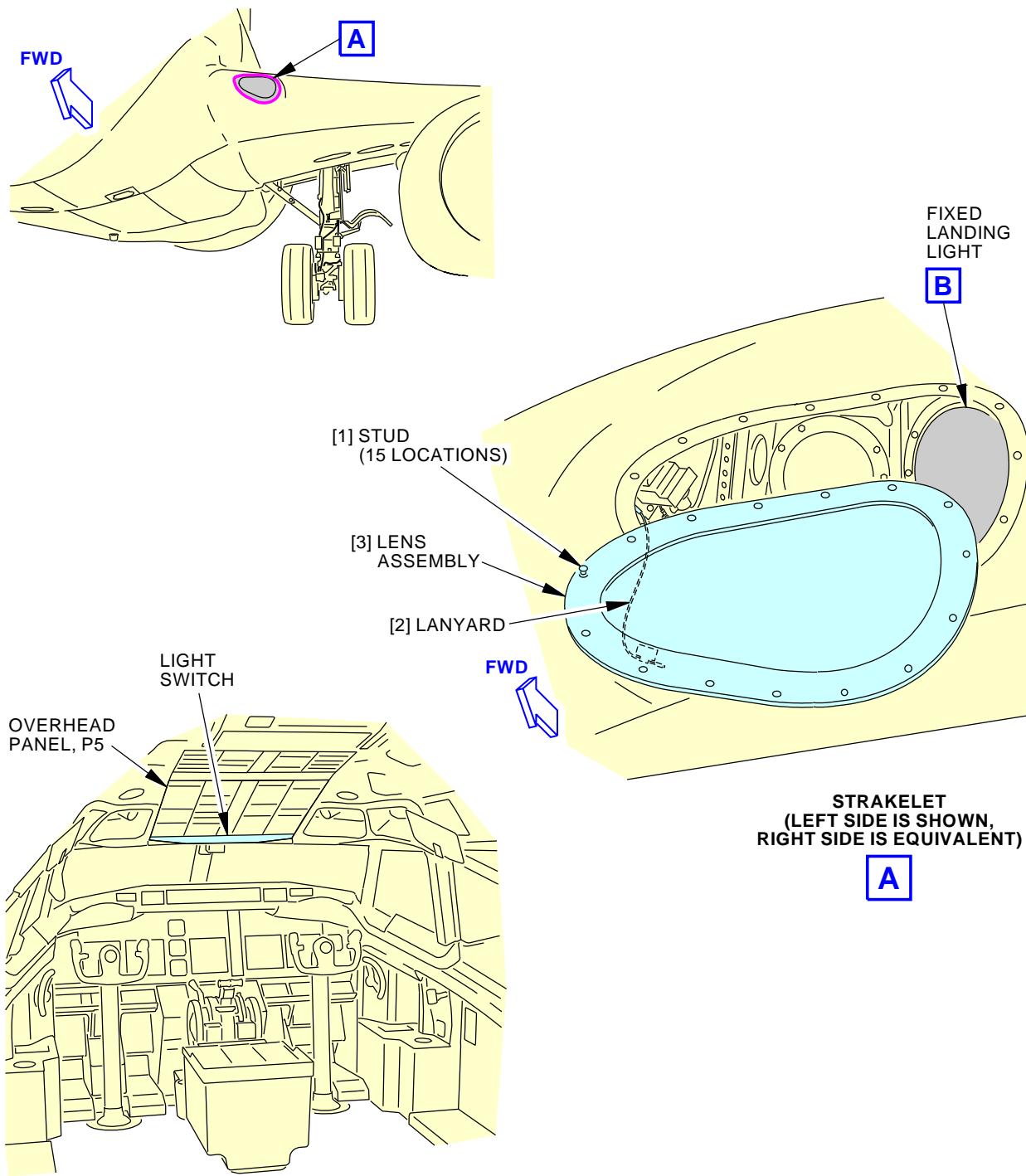
SUBTASK 33-42-01-940-003

- (12) Remove the marker.

— END OF TASK —

EFFECTIVITY
AKS ALL

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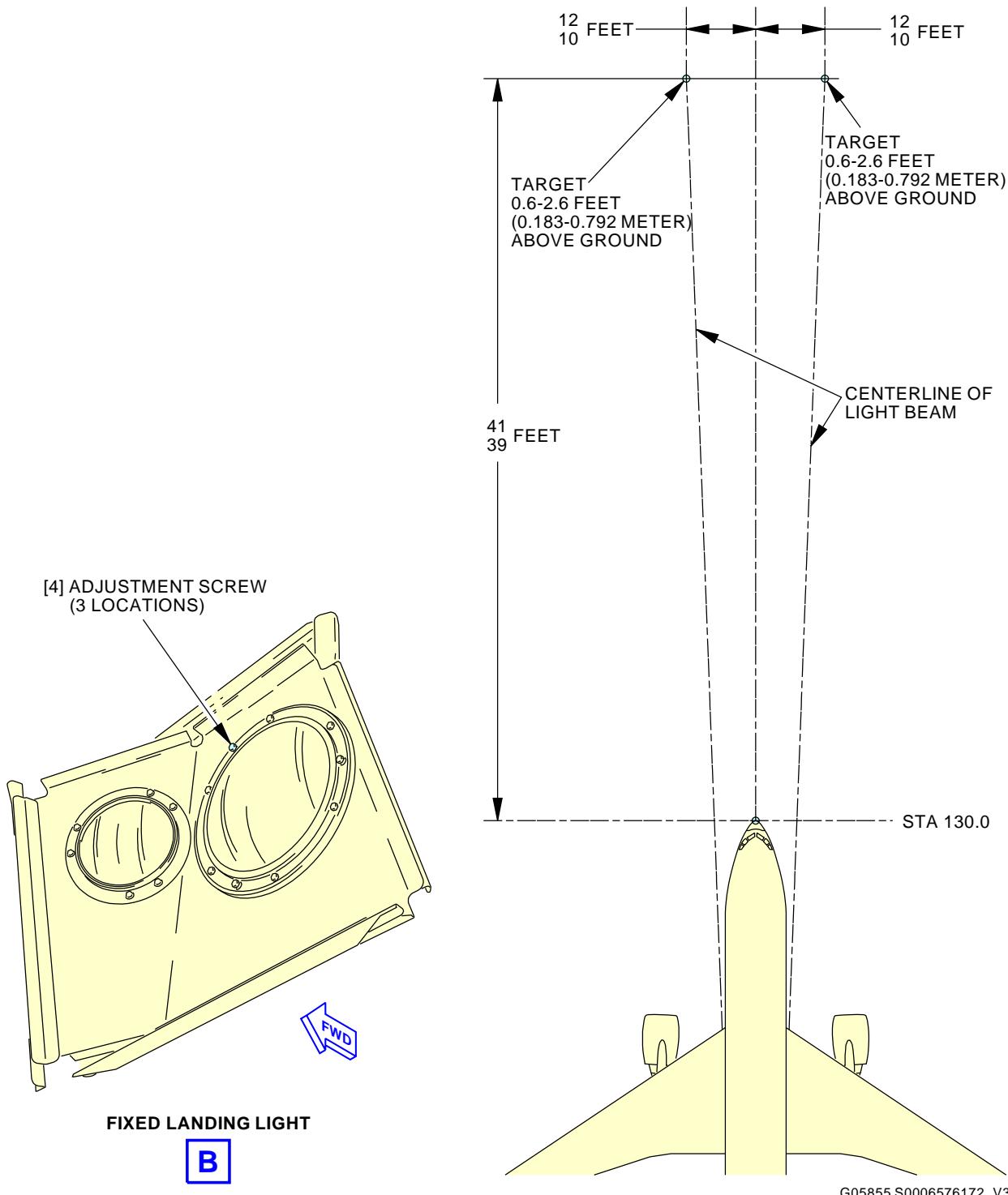
Fixed Landing Light - Light Beam Adjustment
Figure 205/33-42-01-990-802 (Sheet 1 of 2)

 EFFECTIVITY
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Fixed Landing Light - Light Beam Adjustment
Figure 205/33-42-01-990-802 (Sheet 2 of 2)

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AKS 001-017 (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	AKS 001-017

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

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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AKS 001-017 (Continued)

SUBTASK 33-42-01-860-015

- (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

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:

- Loosen the nuts and disconnect the electrical wires [41] from the transformer [42].
 - Remove the compound from the terminals (Seal the Unprotected Terminals, TASK 20-10-47-390-801).
- Remove the screws [43].
- Replace the transformer [42].
- Install the screws [43].
- Connect the electrical wires [41] to the new transformer and tighten the nuts.

NOTE: Use the nuts on the new transformer.

- To seal the terminals, do this task: Seal the Unprotected Terminals, TASK 20-10-47-390-801.

SUBTASK 33-42-01-860-016

- (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>
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 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.

- At the overhead panel, P5, set the switch for the fixed landing light to the on mode.
 - Make sure the light connected to the transformer comes on.
- Set the switch to the off mode.
 - Make sure the light goes off.

SUBTASK 33-42-01-410-003

- (8) Do these steps to install the lens assembly:

- If the tape around the perimeter of the lens opening is damaged, do these steps:

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AKS 001-017 (Continued)

- 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 Trailing Edge Flap System Deactivation, TASK 27-51-00-040-801 was performed to deactivate the leading edge flaps and slats, do this task: Trailing Edge Flap System Reactivation, TASK 27-51-00-440-801.
 - (b) If Leading Edge Flaps and Slats - Deactivation, TASK 27-81-00-040-801 was performed to deactivate the leading edge flaps and slats, 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 ————

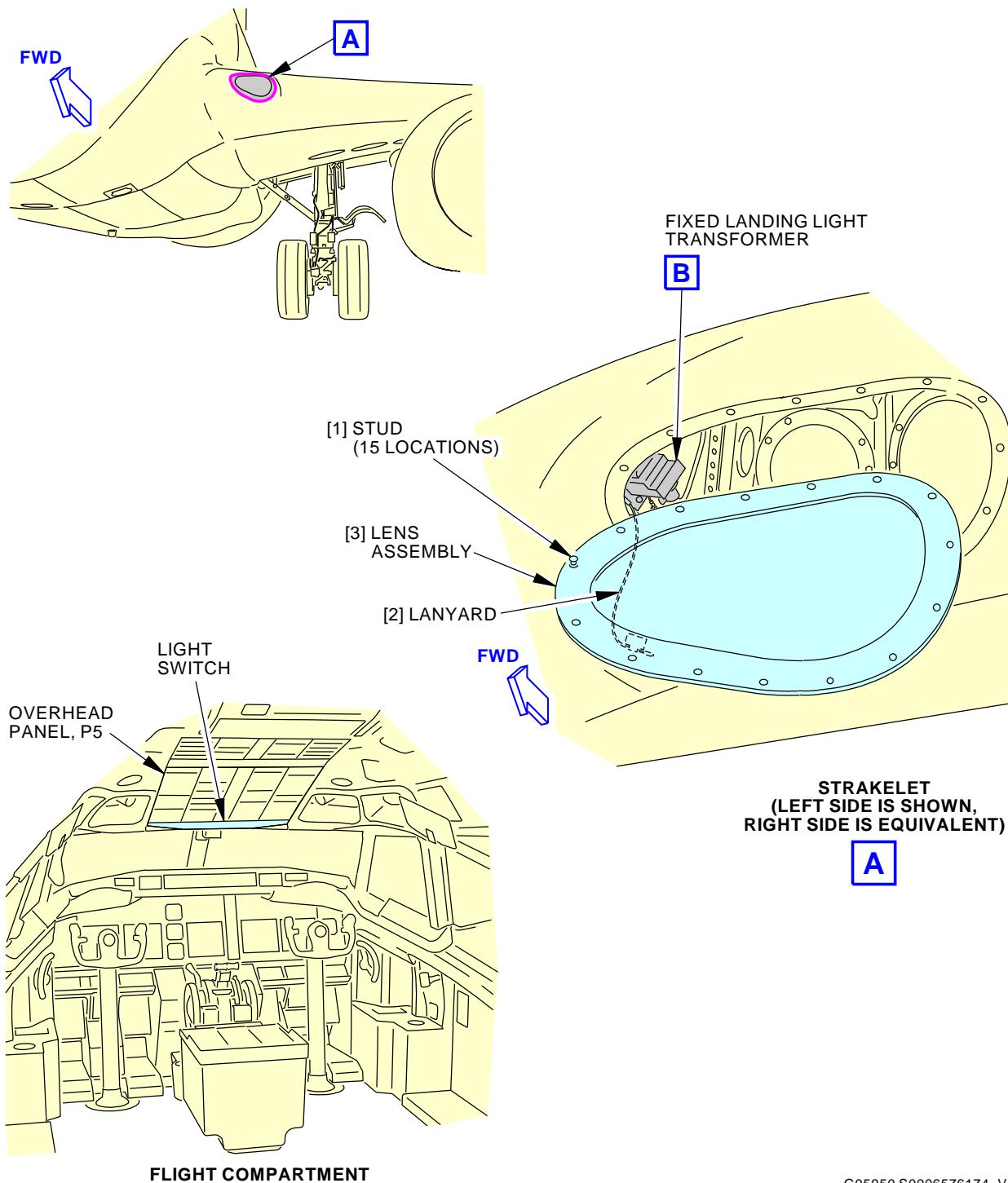
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Fixed Landing Light - Transformer Replacement
Figure 206/33-42-01-990-803 (Sheet 1 of 2)

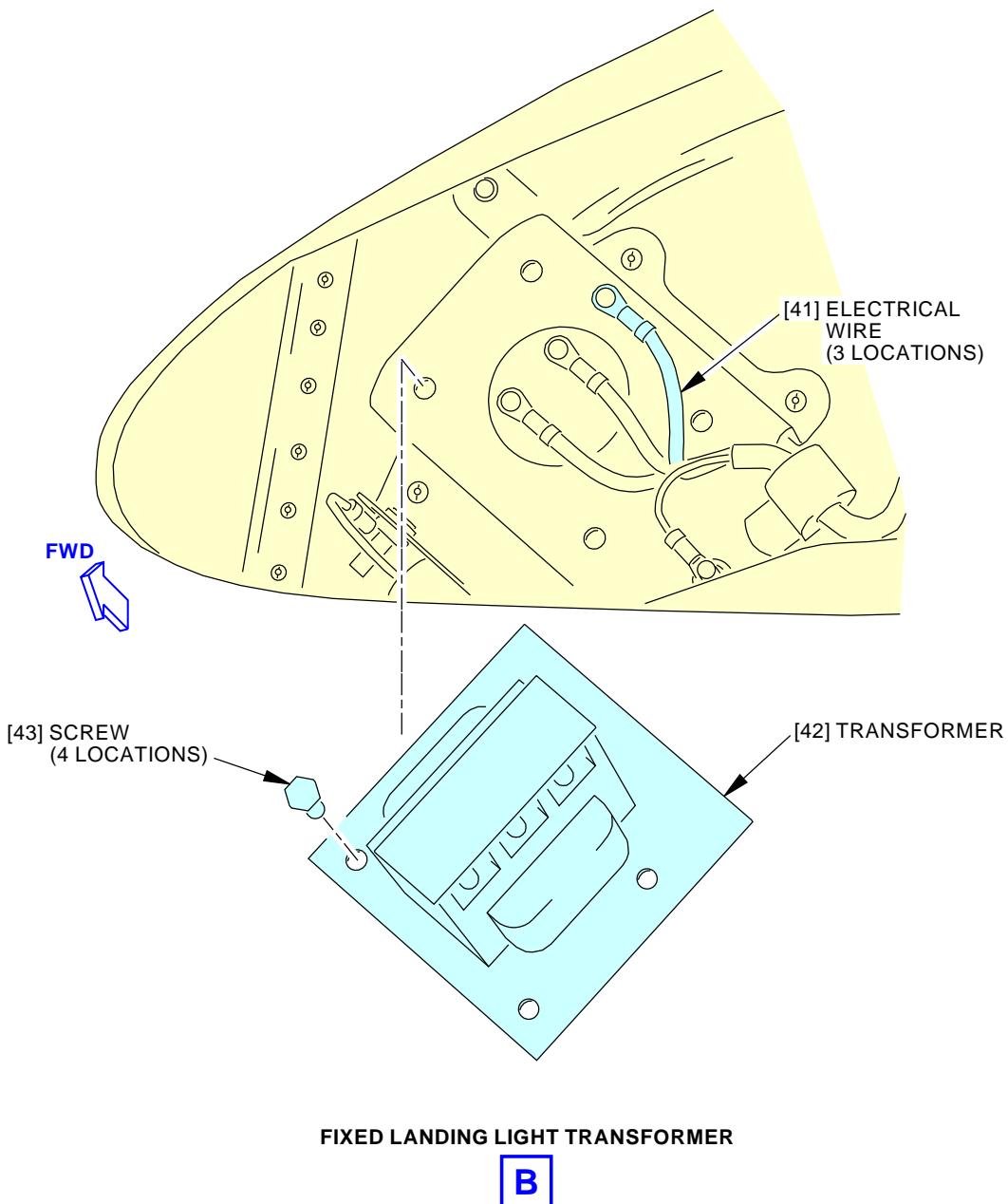
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Fixed Landing Light - Transformer Replacement
Figure 206/33-42-01-990-803 (Sheet 2 of 2)

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TASK 33-42-01-350-801

9. Fixed Landing Light - Lens Temporary Repair

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:

- (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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SUBTASK 33-42-01-860-020

- (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>
------------	------------	---------------	-------------

AKS 018-999			
B	14	C01968	EXTERIOR LIGHTING LTRTL - RIGHT
AKS 001-017			
B	15	C00271	EXTERIOR LIGHTING LANDING LEFT FIXED
AKS 018-999			
B	15	C01969	EXTERIOR LIGHTING LTRTL - LEFT
AKS 001-017			
C	12	C00245	EXT LIGHTING RUNWAY TURNOFF RIGHT
C	13	C00244	EXTERIOR LIGHTING RUNWAY TURNOFF LEFT
C	14	C00272	EXTERIOR LIGHTING LANDING RIGHT FIXED

AKS 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 ± 0.040 in. (3.200 ± 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 ± 0.10 in. (2.54 ± 2.54 mm) wide. The gaps between the aluminum strips and the opening should be 0.060 ± 0.060 in. (1.524 ± 1.524 mm) wide.

G. Put the Airplane Back to Its Usual Condition

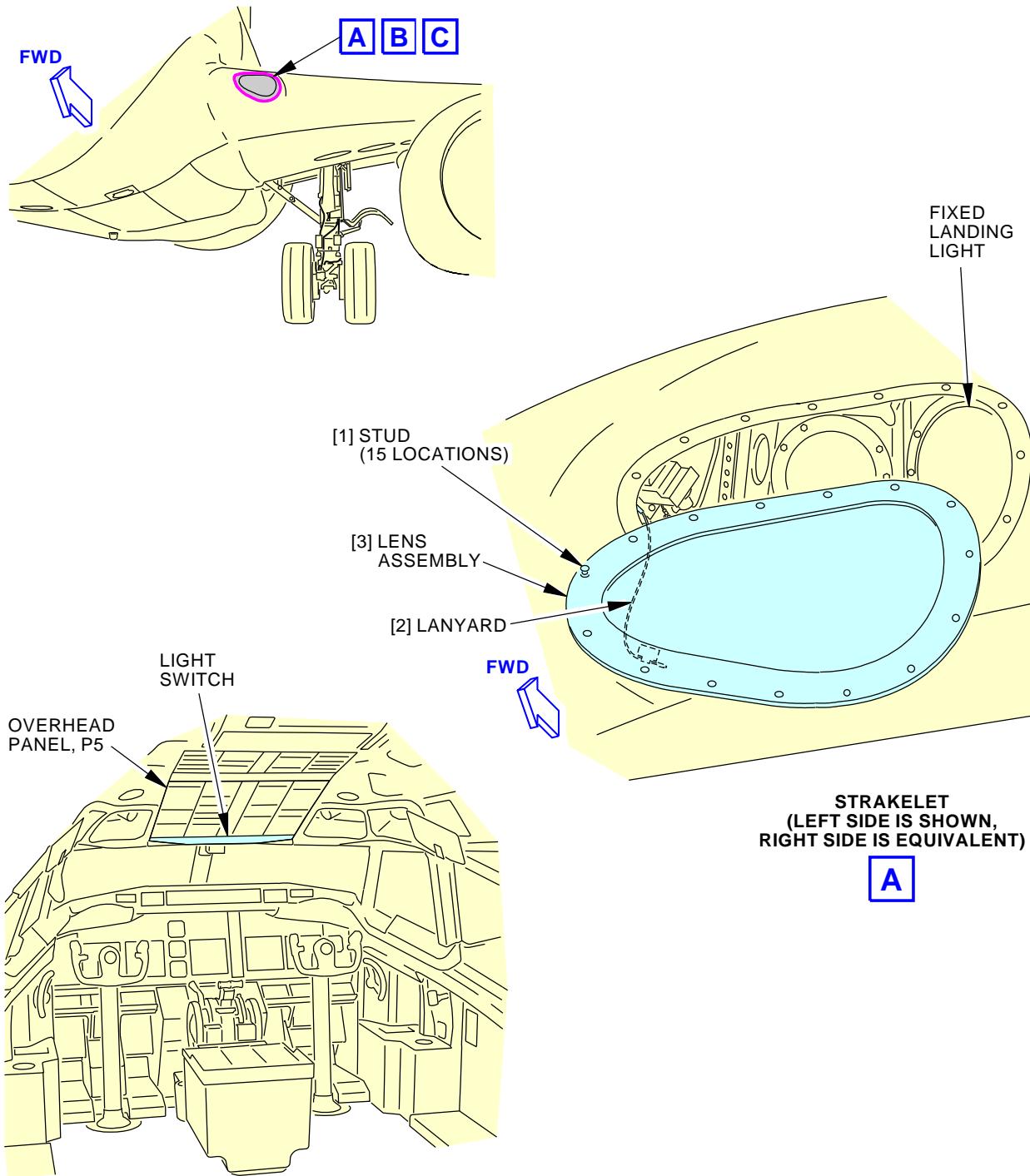
SUBTASK 33-42-01-860-029

- (1) Do these steps to reactivate the leading edge flaps and slats:

- (a) If Trailing Edge Flap System Deactivation, TASK 27-51-00-040-801 was performed to deactivate the leading edge flaps and slats, do this task: Trailing Edge Flap System Reactivation, TASK 27-51-00-440-801.
- (b) If Leading Edge Flaps and Slats - Deactivation, TASK 27-81-00-040-801 was performed to deactivate the leading edge flaps and slats, 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)

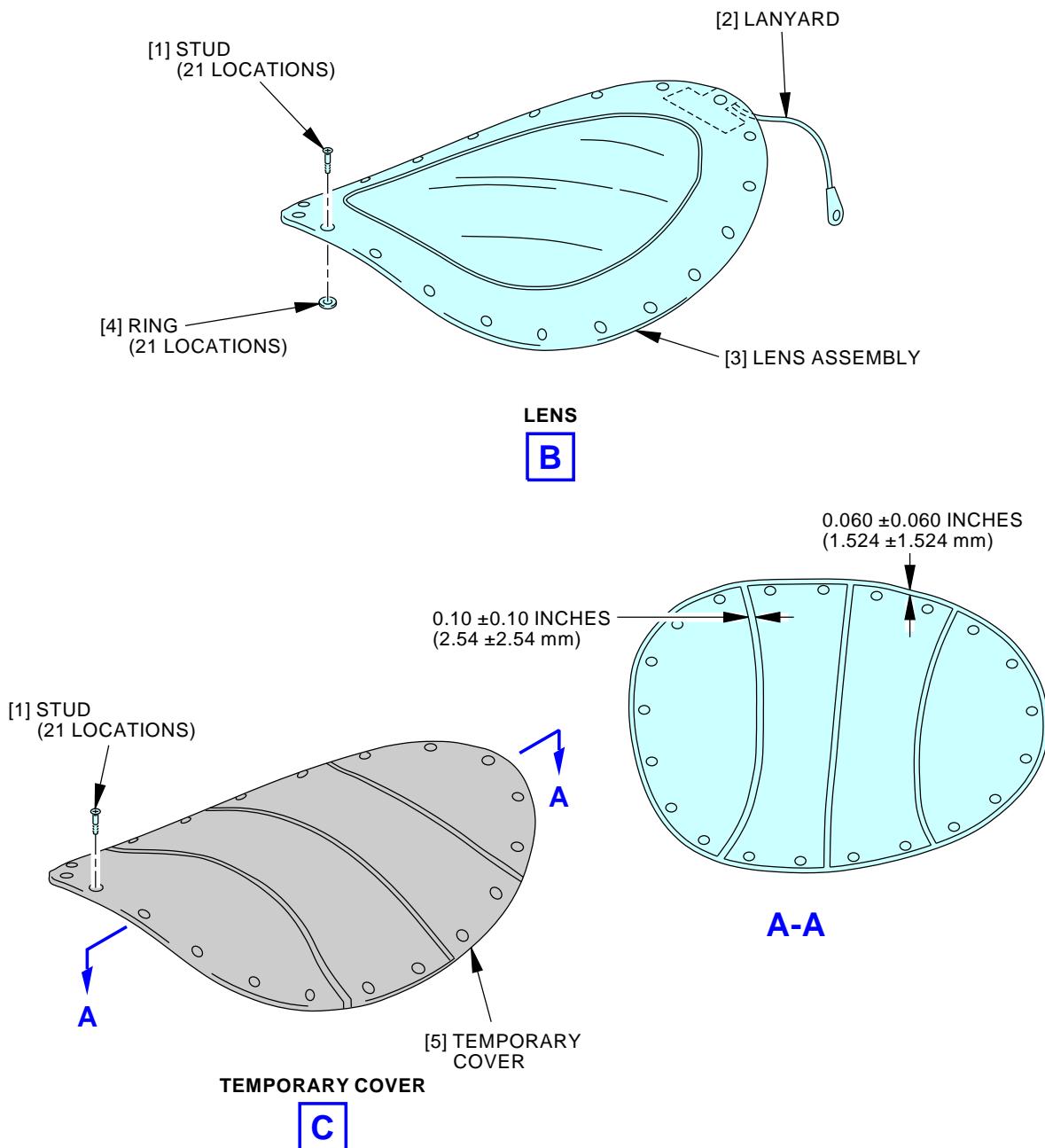
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1750629 S0000316015_V2

Fixed Landing Light - Lens Temporary Repair
Figure 207/33-42-01-990-804 (Sheet 2 of 2)

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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 main array has a service life of 10,000 operating hours.
- (5) When an array is at its end-of-life condition, it will give an end-of-life signal. The end-of-life signal is that the array will flash approximately 3 times before usual operation. Each flash is 0.5 seconds apart. The array will flash at a rate of 120 flashes per minute. When this occurs, the main array is unserviceable.

NOTE: The end-of-life (EOL) indication feature is not available on aircraft at this time.

- (6) The inboard or outboard array will come on when 50% or more of the Light Emitting Diode (LED)s operate. The power supply measures this automatically. The power supply stops the array when the array does not meet this condition.
- (7) The inboard or outboard array is serviceable when all of these conditions occur:
 - (a) The array goes on and off correctly.
 - (b) The array does not give the end-of-life signal.

NOTE: The end-of-life (EOL) indication feature is not available on aircraft at this time.
- (8) The inboard or outboard array is unserviceable when one of these conditions occurs:
 - (a) The array gives its end-of-life signal.

NOTE: The end-of-life (EOL) indication feature is not available on aircraft at this time.

 - (b) The power supply stops the array.

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 33-42-01-440-001

- (1) Do this task to operate the main arrays: Fixed Landing Light - Activation, TASK 33-42-01-440-801.

D. Procedure

SUBTASK 33-42-01-710-006

WARNING: DO NOT LOOK DIRECTLY AT LIGHTS. HIGH INTENSITY OF LIGHTS CAN CAUSE EYE DAMAGE.

- (1) Do the steps that follow to test the main arrays:



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- (a) At the overhead panel, P5, set the left LANDING switch to the ON position.
 - 1) Make sure that the left main array comes on.
 - a) If the left main array comes on and did not flash, then the left main array is serviceable.
 - b) If the inboard or the outboard array flash before usual operation, then the array that flashed is unserviceable. It is necessary to replace the array.
- NOTE: When the array is at its end-of-life condition, the array will flash before usual operation.

NOTE: The end-of-life (EOL) indication feature is not available on aircraft at this time.
- (b) At the overhead panel, P5, set the left LANDING switch to the OFF position.
 - 1) Make sure that the left main array goes off.
- (c) At the overhead panel, P5, set the right LANDING switch to the ON position.
 - 1) Make sure that the right main array comes on.
 - a) If the right main array comes on and did not flash, then the right main array is serviceable.
 - b) If the inboard or the outboard array flash before usual operation, then the array that flashed is unserviceable. It is necessary to replace the array.
- NOTE: When the array is at its end-of-life condition, the array will flash before usual operation.

NOTE: The end-of-life (EOL) indication feature is not available on aircraft at this time.
- (d) At the overhead panel, P5, set the 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 AUTO or ON position.
 - 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) At the overhead panel, P5, set the TAXI switch 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 33-42-01-040-001

- (1) Do this task to deactivate the main arrays: Fixed Landing Light - Deactivation, TASK 33-42-01-040-801.

———— END OF TASK ———



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.

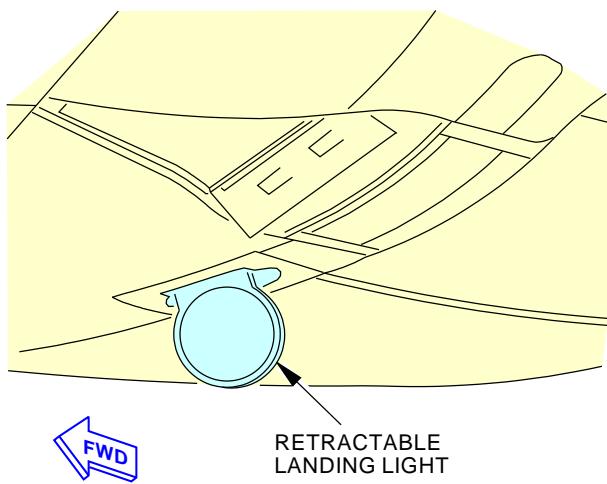
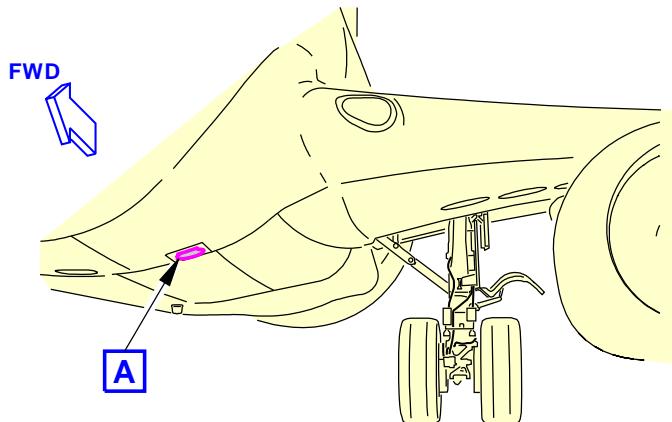
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EFFECTIVITY
AKS 001-017

33-42-02

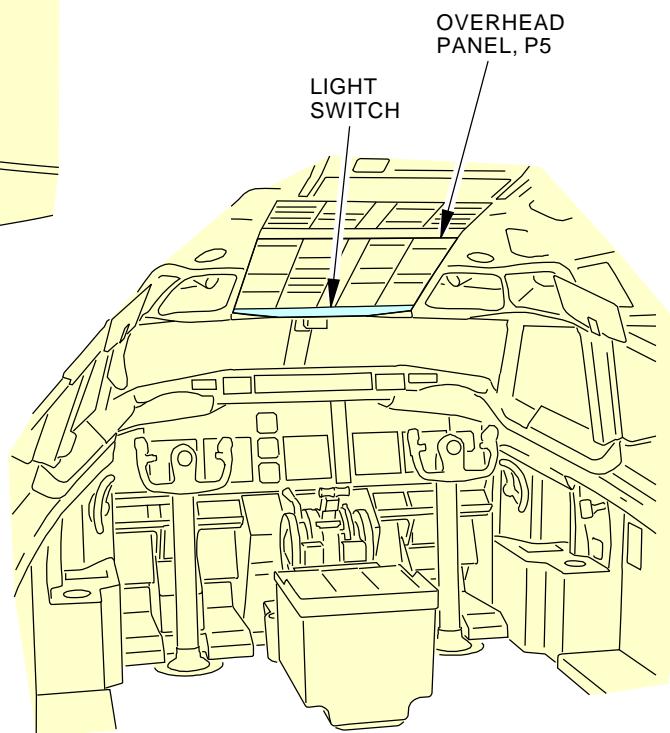


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RETRACTABLE LANDING LIGHT
(LEFT SIDE IS SHOWN,
RIGHT SIDE IS EQUIVALENT)

A



FLIGHT COMPARTMENT

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Retractable Landing Lights
Figure 201/33-42-02-990-806

EFFECTIVITY
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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)
24-22-00-860-812	Remove Electrical Power (P/B 201)
WDM 33-42-111	Wiring Diagram Manual

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
2	Lamp	33-42-02-01-090	AKS 001-017
		33-42-02-01-186	AKS 001-017
		33-42-02-01-320	AKS 001-017
		33-42-02-01-506	AKS 001-017

D. Location Zones

Zone	Area
123	Forward Cargo Compartment - Left
124	Forward Cargo Compartment - Right



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E. Procedure

SUBTASK 33-42-02-860-003

- (1) 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	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:

- Loosen the fasteners [5].
- Pull the retainer assembly [1] and lamp [2] from the housing.
NOTE: The lanyard [6] stays connected.
- Disconnect the electrical wires [3] from the back of the lamp.
- Remove the lamp [2].
- Connect the electrical wires [3] to the new lamp.
- Do these steps to install the new lamp [2] against the back of the retainer assembly [1].
 - If a gasket [4] on the back of the retainer assembly is worn, do this task: Retractable Landing Light - Retainer Assembly Removal/Installation, TASK 33-42-02-960-804.
 - 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.

AKS 001-017; AIRPLANES WITH THE RETAINER ASSEMBLY WITH THREE CUTOUTS FOR LAMP LUGGS

- 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 gasket [4] material on the rim of the housing is flexible, which will permit the lugs to fit into the corresponding housing cutouts.

AKS 001-017; AIRPLANES WITH THE RETAINER ASSEMBLY WITH A LAMP RETENTION BRACKET

- Align the top lamp lug with the cutout in the lamp retention bracket [7].
 - Attach the end of the lamp retention bracket around the post near the center of the lamp.

AKS 001-017

- Install the lamp [2] and retainer assembly [1] in the housing.
- Tighten the fasteners [5].

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.

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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.

SUBTASK 33-42-02-860-005

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

———— END OF TASK ————

EFFECTIVITY
AKS 001-017

33-42-02

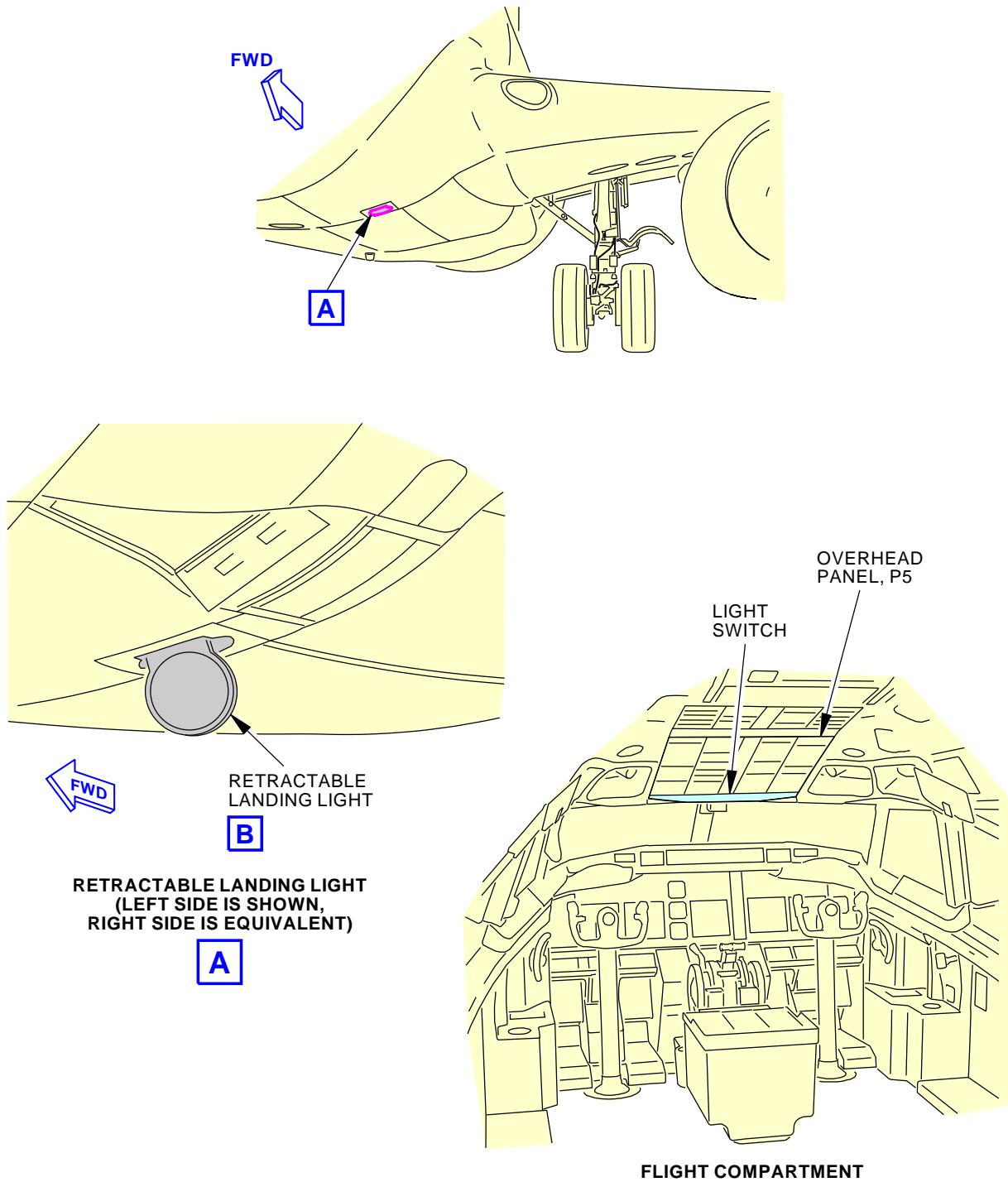
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Retractable Landing Light - Lamp Replacement
Figure 202/33-42-02-990-801 (Sheet 1 of 2)

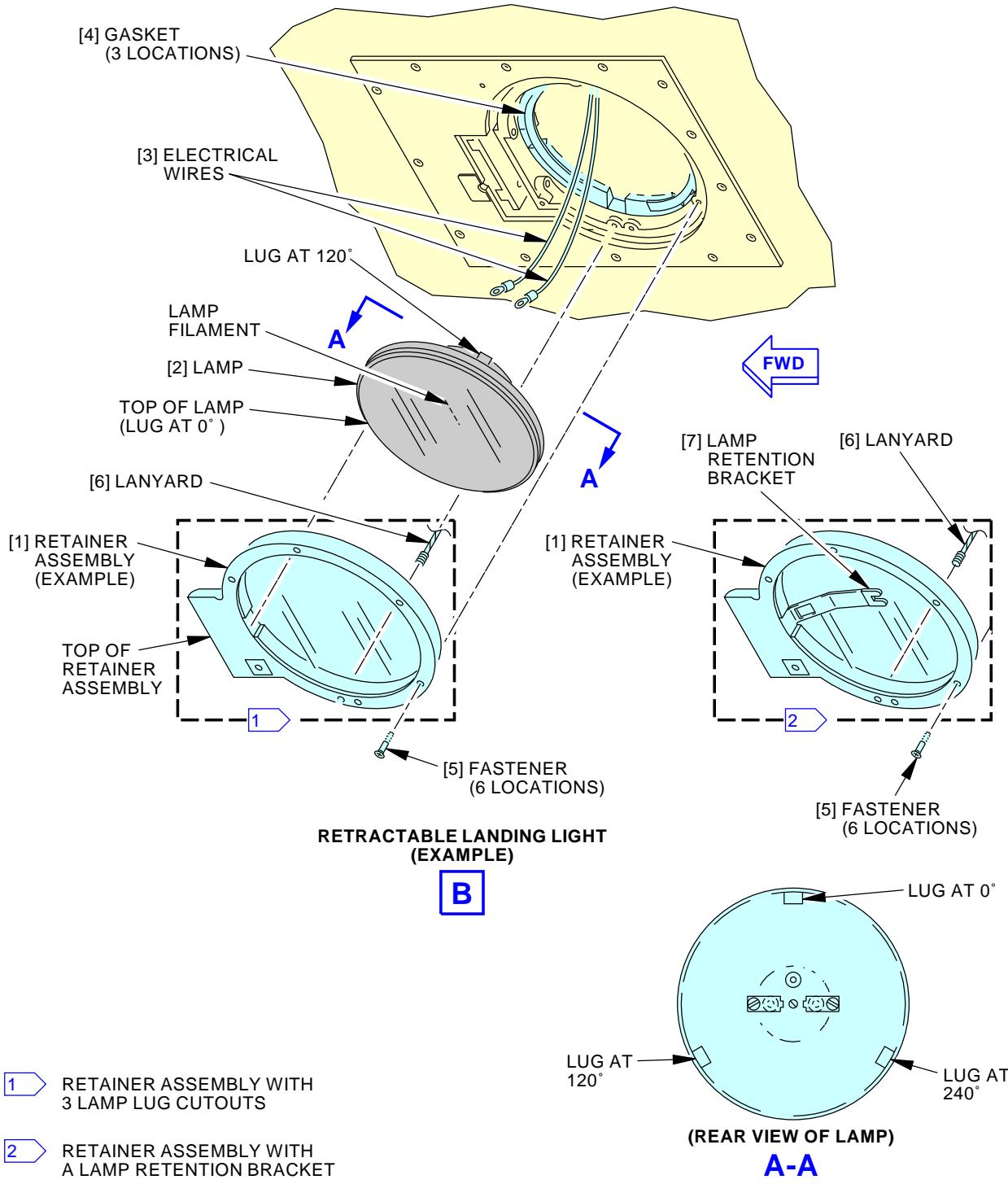
EFFECTIVITY
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Retractable Landing Light - Lamp Replacement
Figure 202/33-42-02-990-801 (Sheet 2 of 2)

EFFECTIVITY
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AIRCRAFT MAINTENANCE MANUAL

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, and lamp gasket.

B. References

Reference	Title
51-21-99-300-801	Decorative Exterior Paint System Application (P/B 701)

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Retainer assembly	33-42-02-01-048	AKS 001-017
		33-42-02-01-050	AKS 001-017
		33-42-02-01-166	AKS 001-017
		33-42-02-01-265	AKS 001-017
		33-42-02-01-268	AKS 001-017
		33-42-02-01-486	AKS 001-017

D. Location Zones

Zone	Area
123	Forward Cargo Compartment - Left
124	Forward Cargo Compartment - Right

E. Procedure

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, or gaskets. Do the repairs in a shop.

- (a) Loosen the fasteners [5].

NOTE: 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]. 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

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CAUTION: THE RETAINER ASSEMBLY MUST BE CORRECTLY ALIGNED AGAINST THE LAMP TO PREVENT DAMAGE TO THE LENS.

- (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] and tighten the fasteners [5].

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
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
51-21-99-300-801	Decorative Exterior Paint System Application (P/B 701)
WDM 33-42-11	Wiring Diagram Manual

B. Tools/Equipment

Reference	Description
STD-14062	Protractor - Digital (0 to 100 degree, Maximum Accuracy of ? 0.1?)

C. Consumable Materials

Reference	Description	Specification
C00528	Compound - Corrosion Preventive, Petroleum Hot Application (Soft Film)	MIL-C-11796 Class III

D. Location Zones

Zone	Area
123	Forward Cargo Compartment - Left
124	Forward Cargo Compartment - Right

E. Access Panels

Number	Name/Location
192CL	ECS Access Door
192CR	ECS Access Door

F. Procedure

SUBTASK 33-42-02-860-006

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

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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SUBTASK 33-42-02-010-001

- (2) For access to the aft side of the retractable landing light, do this step:

- (a) Open the applicable access panel:

<u>Number</u>	<u>Name/Location</u>
192CL	ECS Access Door
192CR	ECS Access Door

SUBTASK 33-42-02-960-002

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

- (a) Disconnect the electrical connector [25].
 - (b) Remove the nut [22], nut [24], 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 the lamp is installed (Retractable Landing Light - Lamp Replacement, TASK 33-42-02-960-801).
 - (f) Install the bolts [26] with the corrosion-preventative compound, C00528.
 - (g) Install the nut [22], nut [24], and washer [23] to connect the jumper [21] to the new light assembly.
 - (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

- (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>
B	14	C00274	EXTERIOR LIGHTING LANDING RIGHT RETR
C	15	C00273	EXTERIOR LIGHTING LANDING LEFT RETR

SUBTASK 33-42-02-860-008

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

SUBTASK 33-42-02-710-002

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

- (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.
 - 1) Make sure the light extends fully, 81.2 ± 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 the light comes on.
- (d) Set the switch to the retract mode.
 - 1) Make sure the light goes off.

EFFECTIVITY
AKS 001-017

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- 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.

SUBTASK 33-42-02-010-002

- (7) Close the applicable access panel:

<u>Number</u>	<u>Name/Location</u>
192CL	ECS Access Door
192CR	ECS Access Door

SUBTASK 33-42-02-860-009

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

SUBTASK 33-42-02-370-002

- (9) If it is necessary to paint the new light assembly, do this task: Decorative Exterior Paint System Application, TASK 51-21-99-300-801.

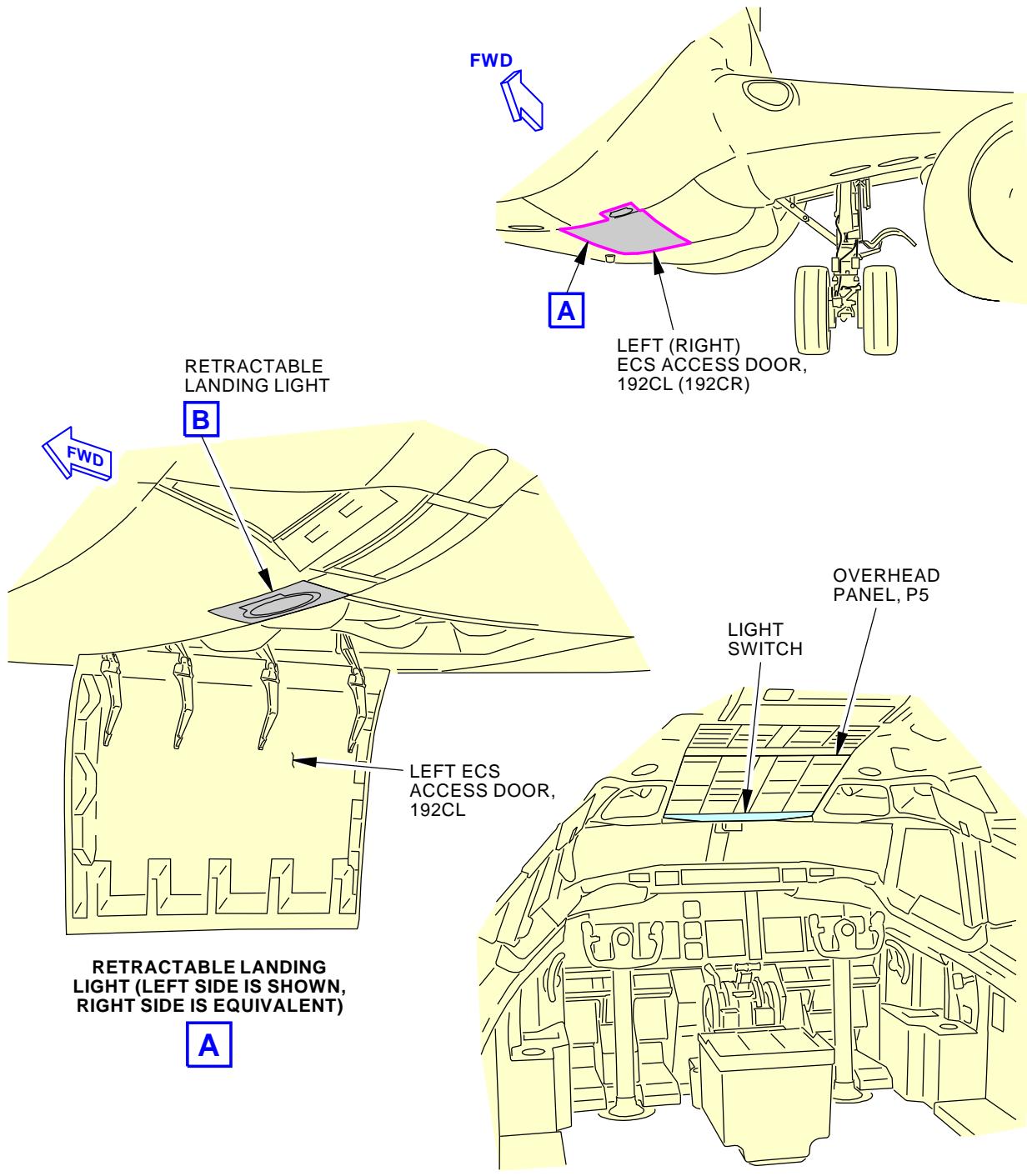
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Retractable Landing Light - Light Assembly Replacement
Figure 203/33-42-02-990-802 (Sheet 1 of 2)

EFFECTIVITY
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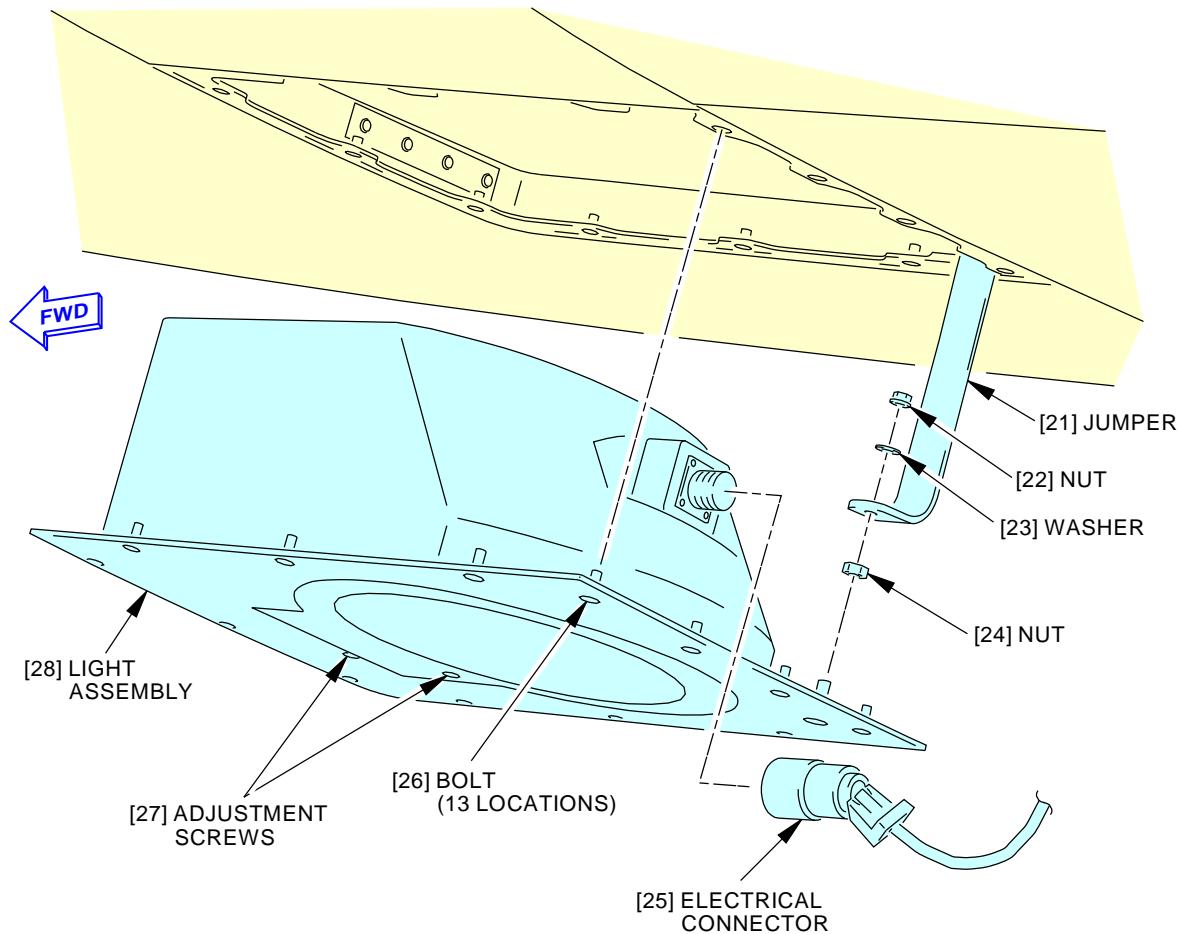
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RETRACTABLE LANDING LIGHT

B

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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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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?)

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 ± 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:

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.

EFFECTIVITY
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- 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

A. General

- (1) This procedure replaces the lens assembly.

NOTE: This procedure is for airplanes with retractable landing light lens assembly 72464199-1 installed.

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	
B00130	Alcohol - Isopropyl	TT-I-735
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:

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

F. Procedure

SUBTASK 33-42-02-020-005

- (1) Remove the retainer assembly [61] from the light assembly. To remove it, do this task:
Retractable Landing Light - Retainer Assembly Removal/Installation, TASK 33-42-02-960-804.

NOTE: Do only the applicable removal steps.

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].

EFFECTIVITY
AKS 001-017

33-42-02



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- (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]:
- Clean the retainer [67] with alcohol, B00130 and a lint-free cloth, G01043.
 - Put the lens assembly [66] in its position on the retainer [67].
 - Apply a bead of RTV157 adhesive, A00562 on the mating side of the lens gasket [65].
 - Put the lens gasket [65] in its position against the retainer [67].
 - Insert the fasteners [63] through holes in the retainer [67] and attach them with the screw retainers [64].

SUBTASK 33-42-02-420-009

- (4) Install the retainer assembly [61] to the light assembly. To install it, 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

<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

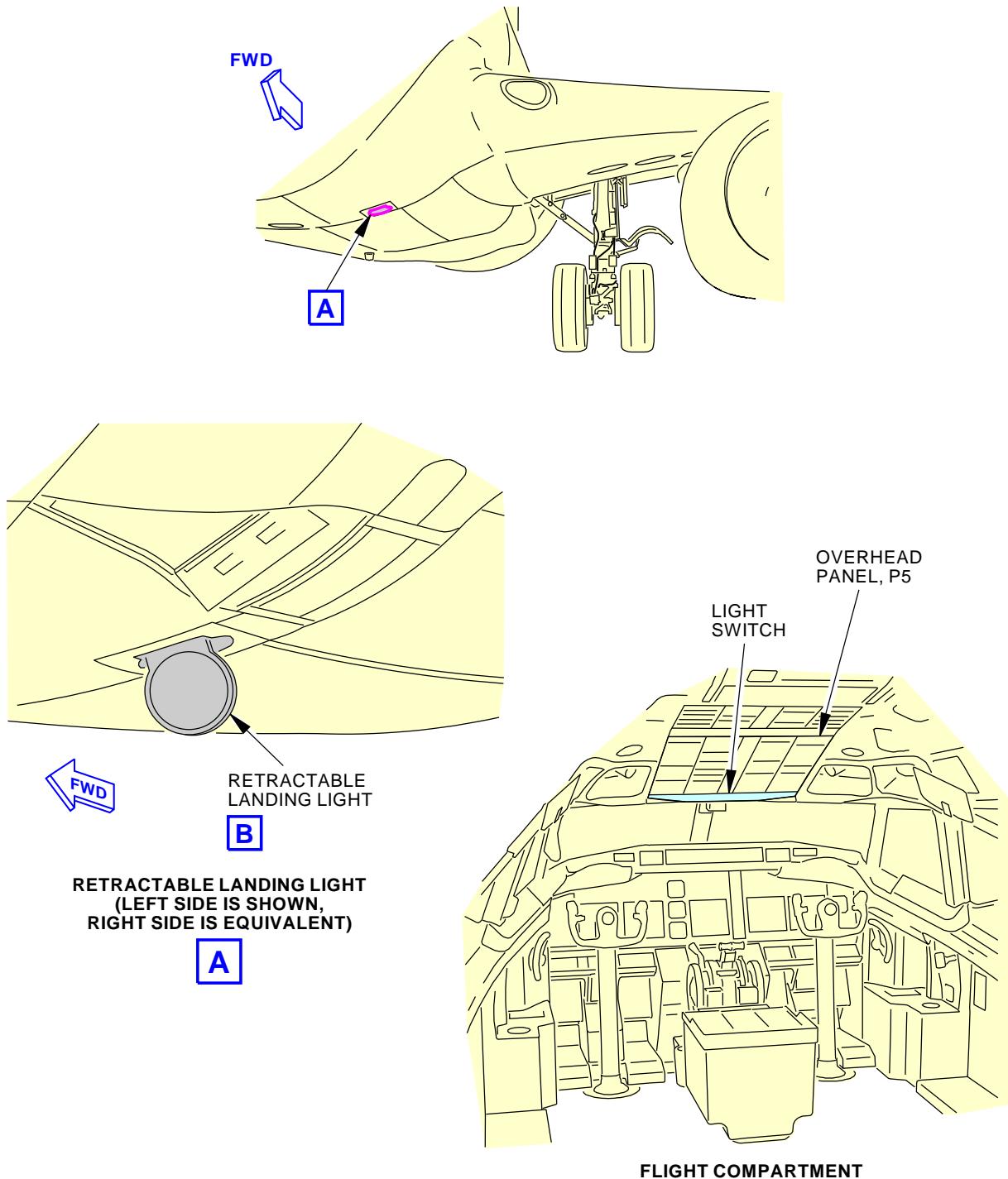
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FLIGHT COMPARTMENT

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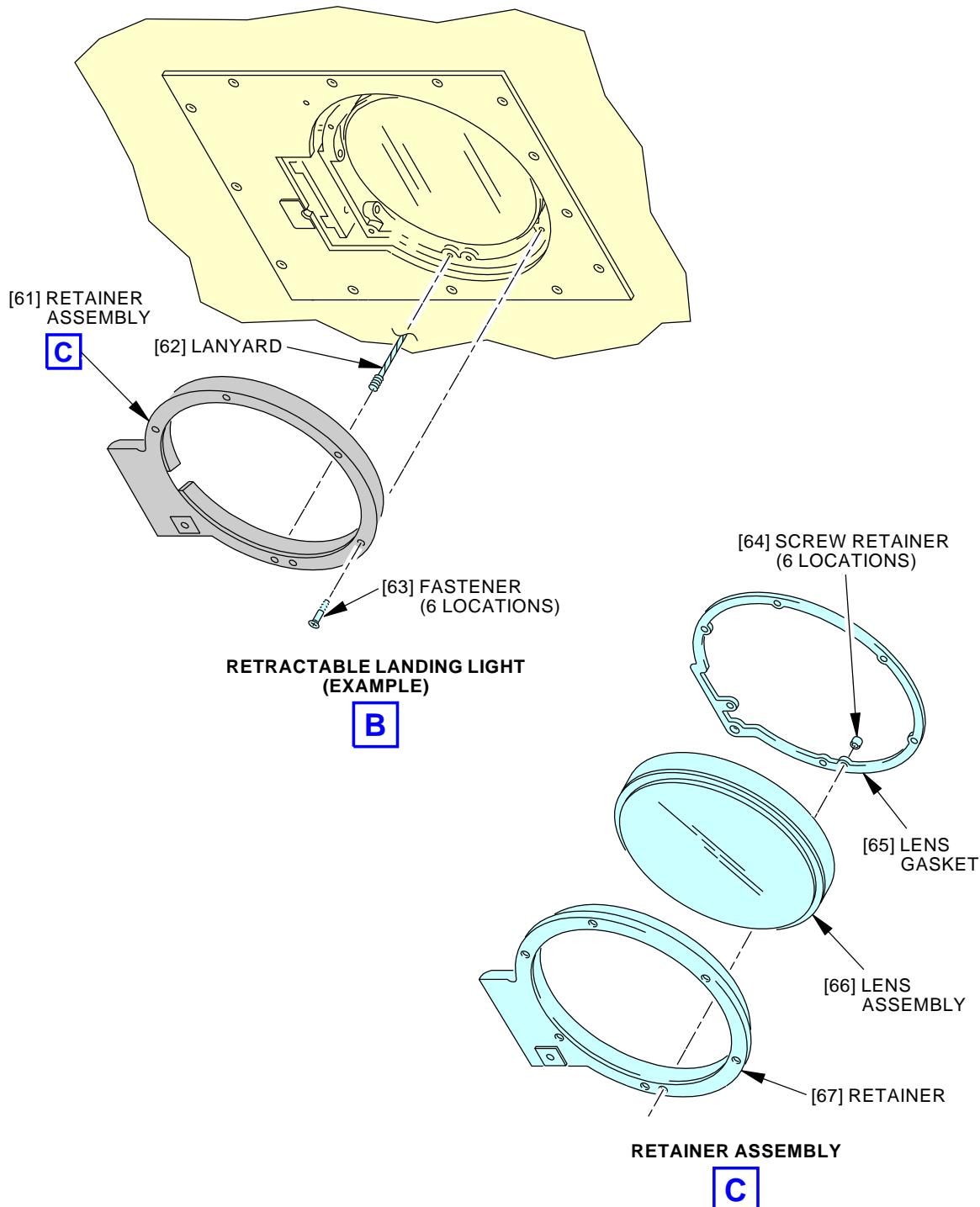
Retractable Landing Light - Lens Assembly Replacement
Figure 204/33-42-02-990-805 (Sheet 1 of 2)

EFFECTIVITY
AKS 001-017

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Retractable Landing Light - Lens Assembly Replacement
Figure 204/33-42-02-990-805 (Sheet 2 of 2)

EFFECTIVITY
AKS 001-017

33-42-02

D633A101-AKS

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

WINGLET POSITION LIGHTS - MAINTENANCE PRACTICES

1. General

- A. This procedure has these tasks:
- (1) Position Light Deactivation
 - (2) Position Light Activation
 - (3) Position Light - Transformer Replacement

AKS 002-999; AIRPLANES WITH LED WINGLET LIGHTS

- (4) Position Light - LED Light Control PBA Replacement

AKS ALL; AIRPLANES WITH WINGLETS

- (5) Position Lights - Operational Test

AKS ALL; AIRPLANES WITH SINGLE FORWARD LENS CONFIGURATION

- (6) Position Lights - Disconnect the Electrical Connector
- (7) Position Lights - Connect the Electrical Connector

AKS ALL; AIRPLANES WITH WINGLETS

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

Zone	Area
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

Row	Col	Number	Name
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.

EFFECTIVITY
AKS ALL; AIRPLANES WITH WINGLETS

33-43-10



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- (b) Make sure the forward and aft position lights are off.

———— END OF TASK ——

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
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (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 Meters - 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 #: C15292 (MODEL T477W) Supplier: 01014 Part #: M1 Supplier: 3AD17 Opt Part #: M1B Supplier: 3AD17

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AKS ALL; AIRPLANES WITH WINGLETS

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C. Consumable Materials

Reference	Description	Specification
B00083	Solvent - VM&P Naphthas	ASTM D-3735 Type III
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	BMS15-5 Class A

D. Location Zones

Zone	Area
527	Left Winglet
627	Right Winglet

E. 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

F. Procedure

SUBTASK 33-43-10-860-001

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

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 33-43-10-960-001

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

- (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 a clean cotton wiper, G00034.

- (e) Install the new transformer [3].

- (f) With the electrical bonding intrinsically safe approved bonding meter, COM-1550, make sure the resistance between the transformer and the fuselage measures no more than 0.0025 ohms.

- (g) Install the washers [1] and bolts [2]

- (h) Connect the electrical connector [4].

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

Number Name/Location

521AAB	Lower Leading Edge Access Panel - Slat Station 508.31
621ZB	Lower Leading Edge Access Panel - Slat Station 508.31

EFFECTIVITY
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AIRCRAFT MAINTENANCE MANUAL

SUBTASK 33-43-10-860-002

- (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>
A	12	C00113	EXTERIOR LIGHTING POSITION RIGHT
A	13	C00114	EXTERIOR LIGHTING POSITION LEFT

SUBTASK 33-43-10-860-003

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

SUBTASK 33-43-10-710-001

- (5) Do a test of the new transformer.

- (a) At the overhead panel, P5, set the switch for the position 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.

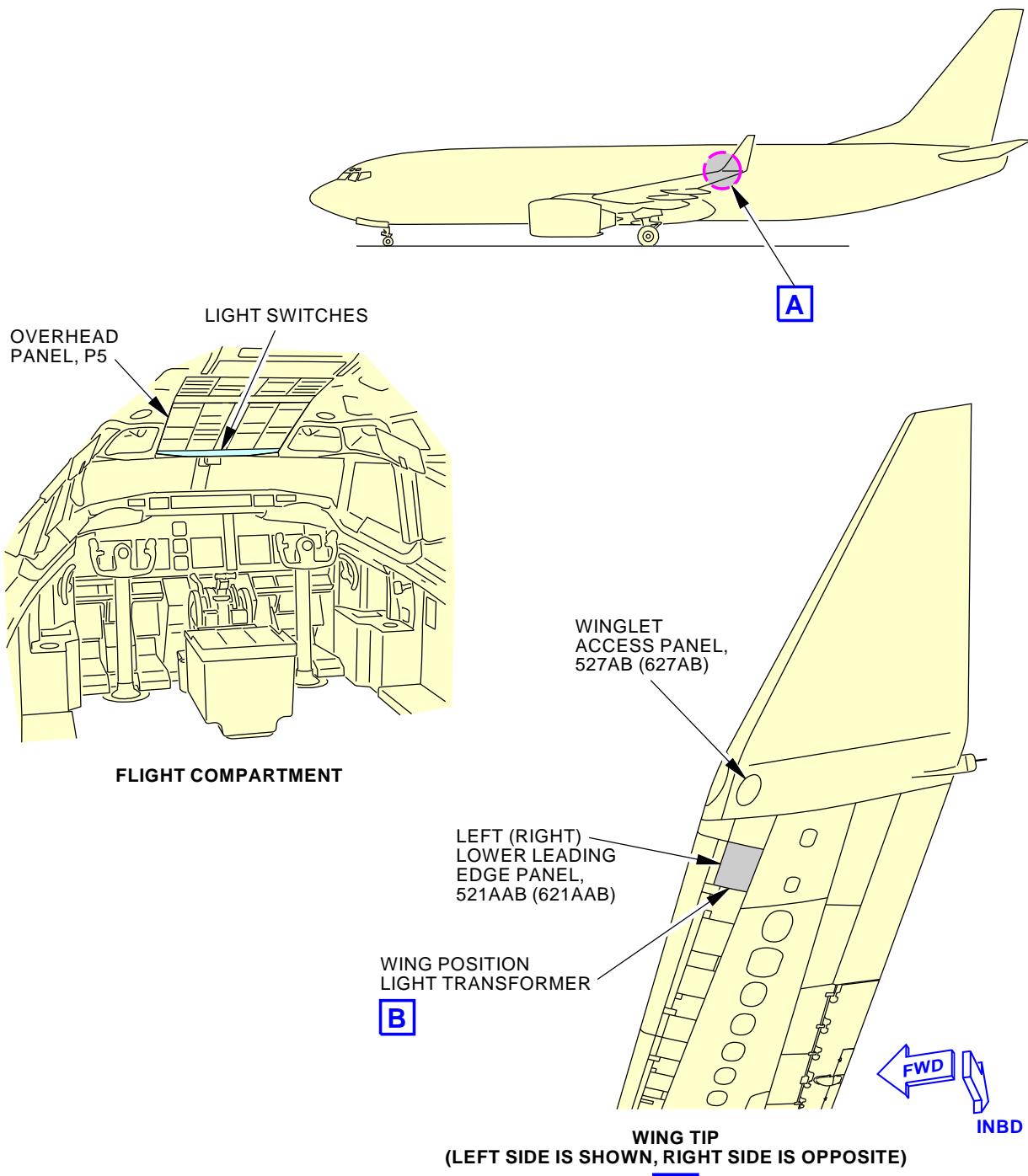
SUBTASK 33-43-10-860-004

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

———— END OF TASK ————

EFFECTIVITY
AKS ALL; AIRPLANES WITH WINGLETS

33-43-10

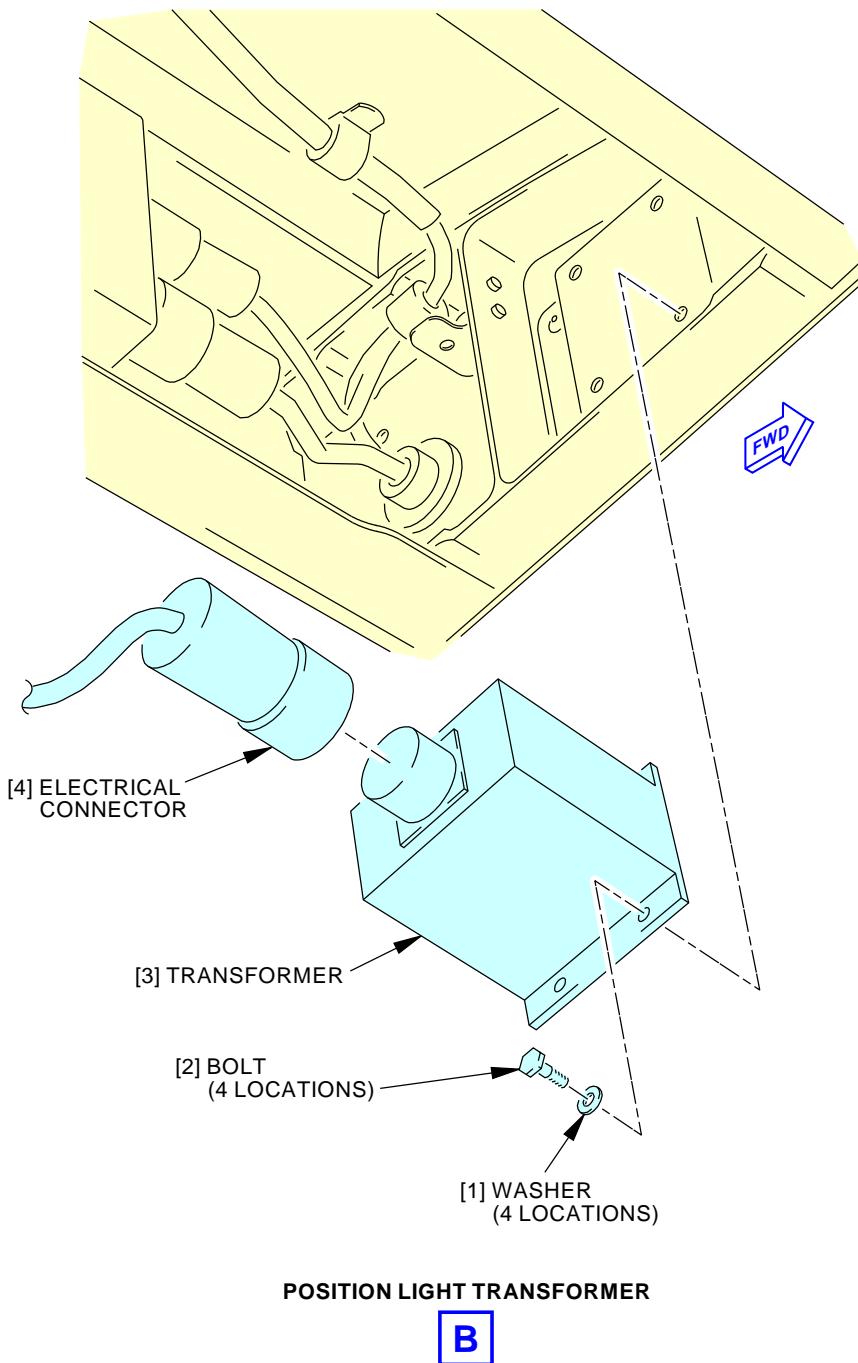


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Position Light - Transformer Replacement
Figure 201/33-43-10-990-801 (Sheet 1 of 2)

EFFECTIVITY
AKS ALL; AIRPLANES WITH WINGLETS

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Position Light - Transformer Replacement
Figure 201/33-43-10-990-801 (Sheet 2 of 2)

EFFECTIVITY
AKS ALL; AIRPLANES WITH WINGLETS

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AKS 002-999; 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 procedure describes replacement of the light control PBA for the forward position light.

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)
33-43-11-960-801	Forward Position Light with Single Lens - Lamp Replacement (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.

Reference	Description
COM-1565	Strap - Adjustable Wrist, Conductive, Static Control
	Part #: 09070 Supplier: 62576
	Part #: 14810 Supplier: 62576
	Part #: 2214 Supplier: 55203
	Opt Part #: 2211 Supplier: 55203
	Opt Part #: 2212 Supplier: 55203
	Opt Part #: 2213 Supplier: 55203

D. Consumable Materials

Reference	Description	Specification
G01043	Cloth - Lint-free	
G01306	Gloves - Lint-free	

E. Location Zones

Zone	Area
527	Left Winglet
627	Right Winglet

EFFECTIVITY
AKS ALL; AIRPLANES WITH WINGLETS

33-43-10



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AIRCRAFT MAINTENANCE MANUAL

AKS 002-999; AIRPLANES WITH LED WINGLET LIGHTS (Continued)

F. Procedure

WARNING: 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:

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 33-43-10-020-002

- (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.

SUBTASK 33-43-10-020-003

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) Remove the forward position light LED modules. Do this task: Forward Position Light with Single Lens - Lamp Replacement, TASK 33-43-11-960-801 or Forward Position Light with Dual Lens - Lamp Replacement, TASK 33-43-11-960-802.

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:

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.
- (c) Remove the six fasteners [31] and remove the cover assembly [32].
- (d) Remove the four fasteners [33].
- (e) Remove the light control PBA [34] away from the standoffs on the cover assembly [32].
- (f) Replace the light control PBA [34].
- (g) Install the replacement light control PBA [34] and tighten the four fasteners [33].
 - 1) Torque the fasteners [33] to 10 in-lb (1 N·m).
 - 2) Stake the fasteners [33] with EC2216BA adhesive (Figure 202 (Sheet 2)).

EFFECTIVITY
AKS ALL; AIRPLANES WITH WINGLETS

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AIRCRAFT MAINTENANCE MANUAL

AKS 002-999; AIRPLANES WITH LED WINGLET LIGHTS (Continued)

- (h) Install the cover assembly [32] and tighten the six fasteners [31].

SUBTASK 33-43-10-420-002

- (5) Install the forward position light LED modules. Do this task: Forward Position Light with Single Lens - Lamp Replacement, TASK 33-43-11-960-801 or Forward Position Light with Dual Lens - Lamp Replacement, TASK 33-43-11-960-802.

SUBTASK 33-43-10-420-003

- (6) 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 33-43-10-860-012

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

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 33-43-10-860-013

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

SUBTASK 33-43-10-710-005

- (9) Do a test of the new light control PBA (position lights):

- (a) At the overhead panel, P5, set the switch for the position lights to the ON mode.
 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.

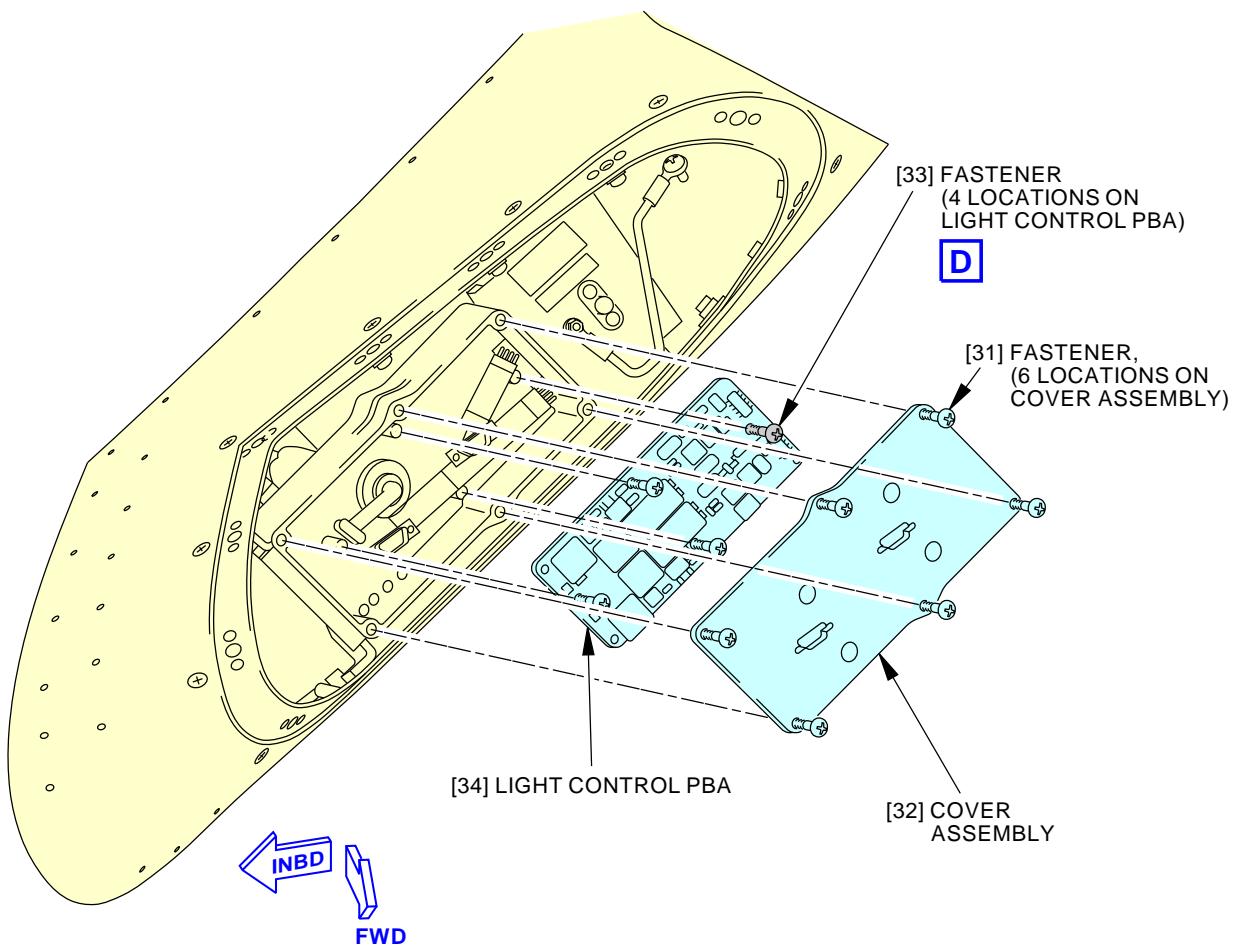
SUBTASK 33-43-10-860-014

- (10) If power is not necessary, then do this task: Remove Electrical Power, TASK 24-22-00-860-812

———— END OF TASK ————

EFFECTIVITY
AKS ALL; AIRPLANES WITH WINGLETS

33-43-10



**FORWARD POSITION LIGHT
(POSITION LIGHT LENS ASSEMBLY REMOVED)**

C

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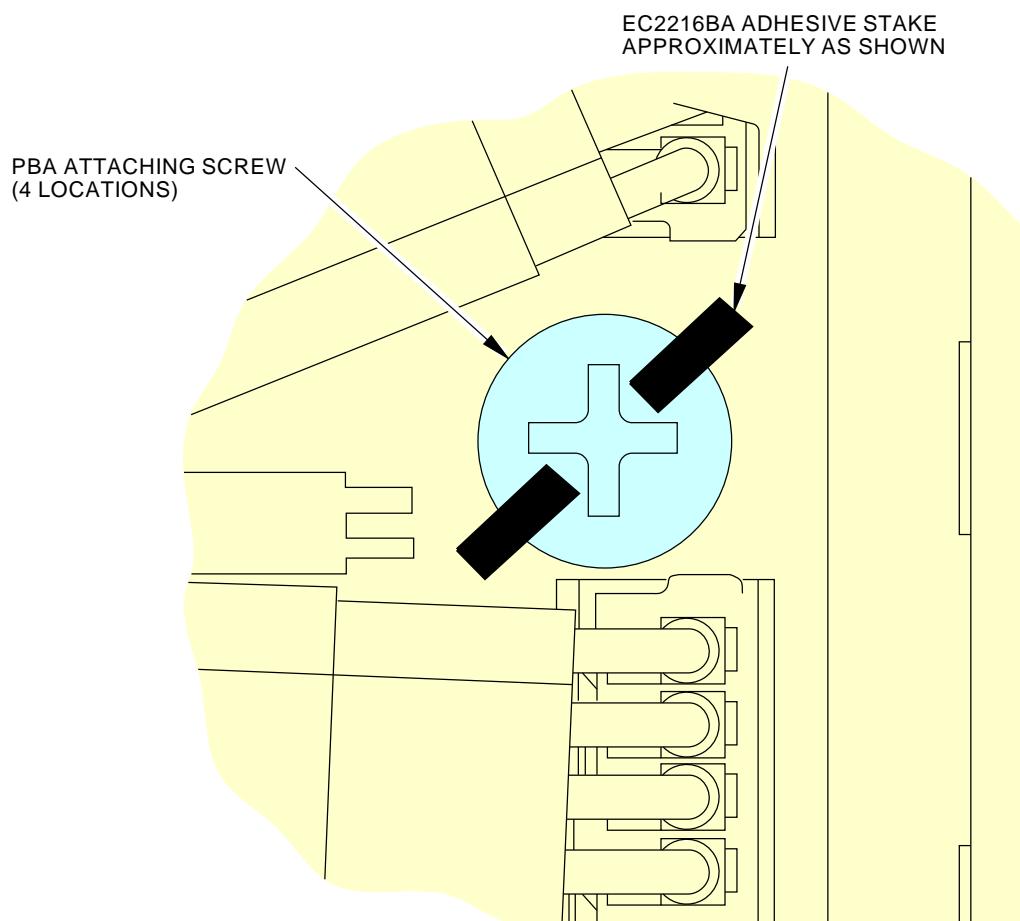
**Position Light - LED Light Control PBA Replacement
Figure 202/33-43-10-990-803 (Sheet 1 of 2)**

EFFECTIVITY
AKS 002-999; AIRPLANES WITH LED WINGLET
LIGHTS

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FASTENER ON LIGHT CONTROL PBA

D

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Position Light - LED Light Control PBA Replacement
Figure 202/33-43-10-990-803 (Sheet 2 of 2)

EFFECTIVITY
AKS 002-999; AIRPLANES WITH LED WINGLET
LIGHTS

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AKS ALL; AIRPLANES WITH WINGLETS

TASK 33-43-10-710-801

6. Position Lights - Operational Test

(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)
33-43-11-960-801	Forward Position Light with Single Lens - Lamp Replacement (P/B 201)
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

SUBTASK 33-43-10-860-005

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

AKS ALL

SUBTASK 33-43-10-710-003

- (2) Do a test of the position lights on the wings (WDM 33-43-11):
 - (a) At the overhead panel, P5, set the switch for the position lights to the steady mode.
 - 1) Make sure the forward and aft position lights on both wings come on.

AKS 002-999; 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 33-43-11-960-801 or TASK 33-43-11-960-802).

AKS ALL

- (b) Set the switch to the off mode.
 - 1) Make sure the lights go off.

AKS ALL; AIRPLANES WITH WINGLETS

SUBTASK 33-43-10-860-006

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

— END OF TASK —

EFFECTIVITY
AKS ALL; AIRPLANES WITH WINGLETS

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AKS ALL; AIRPLANES WITH SINGLE FORWARD LENS CONFIGURATION

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:

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 33-43-10-010-001

- (2) Open the applicable access panel:

Number	Name/Location
527AB	Winglet Access Panel
627AB	Winglet Access Panel

SUBTASK 33-43-10-020-001

- (3) Disconnect the electrical connector [21].

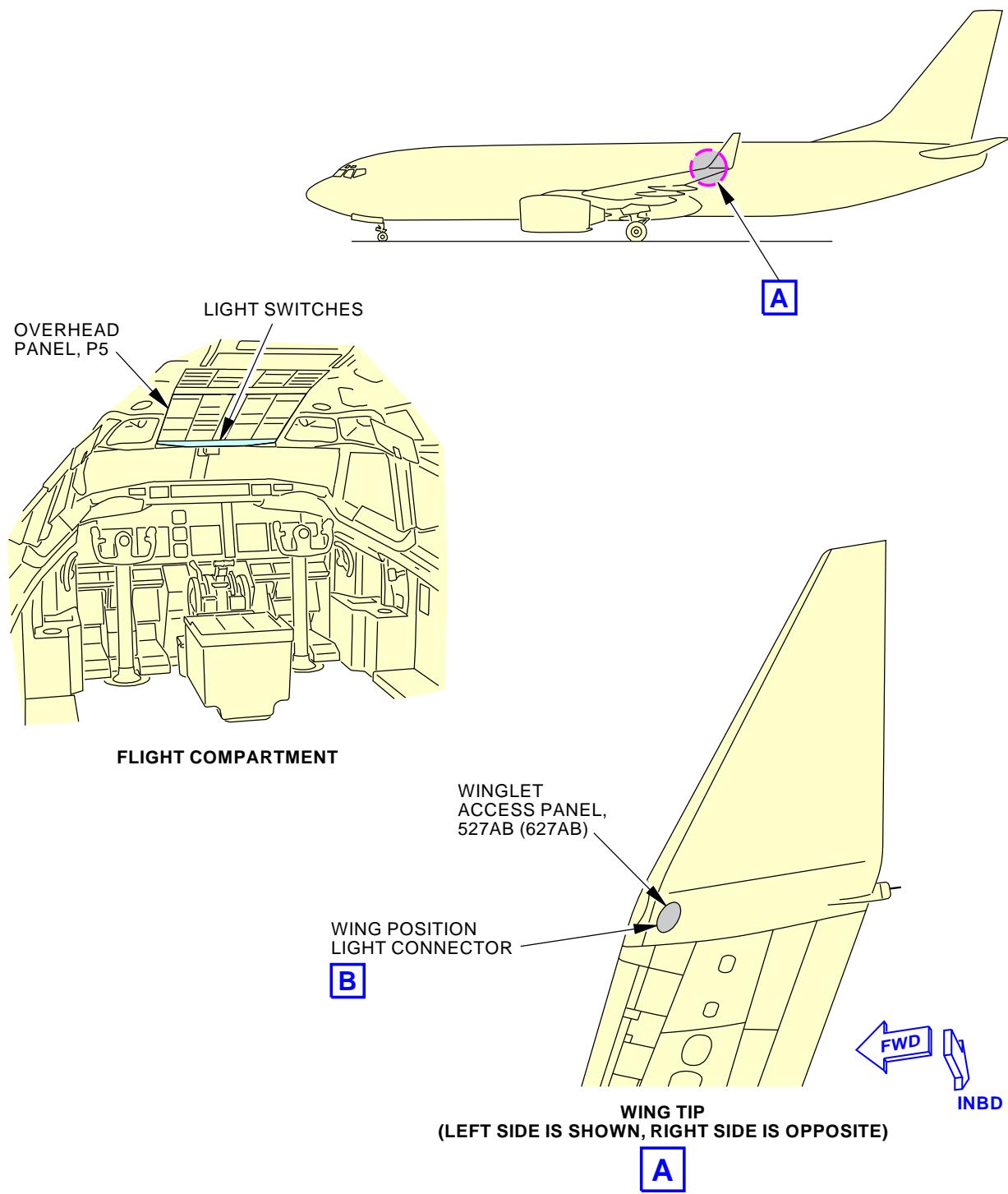
———— END OF TASK ————

EFFECTIVITY
AKS ALL; AIRPLANES WITH WINGLETS

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AIRCRAFT MAINTENANCE MANUAL



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Position Lights - Disconnect/Connect the Electrical Connector
Figure 203/33-43-10-990-802 (Sheet 1 of 2)

EFFECTIVITY
AKS ALL; AIRPLANES WITH SINGLE FORWARD
LENS CONFIGURATION

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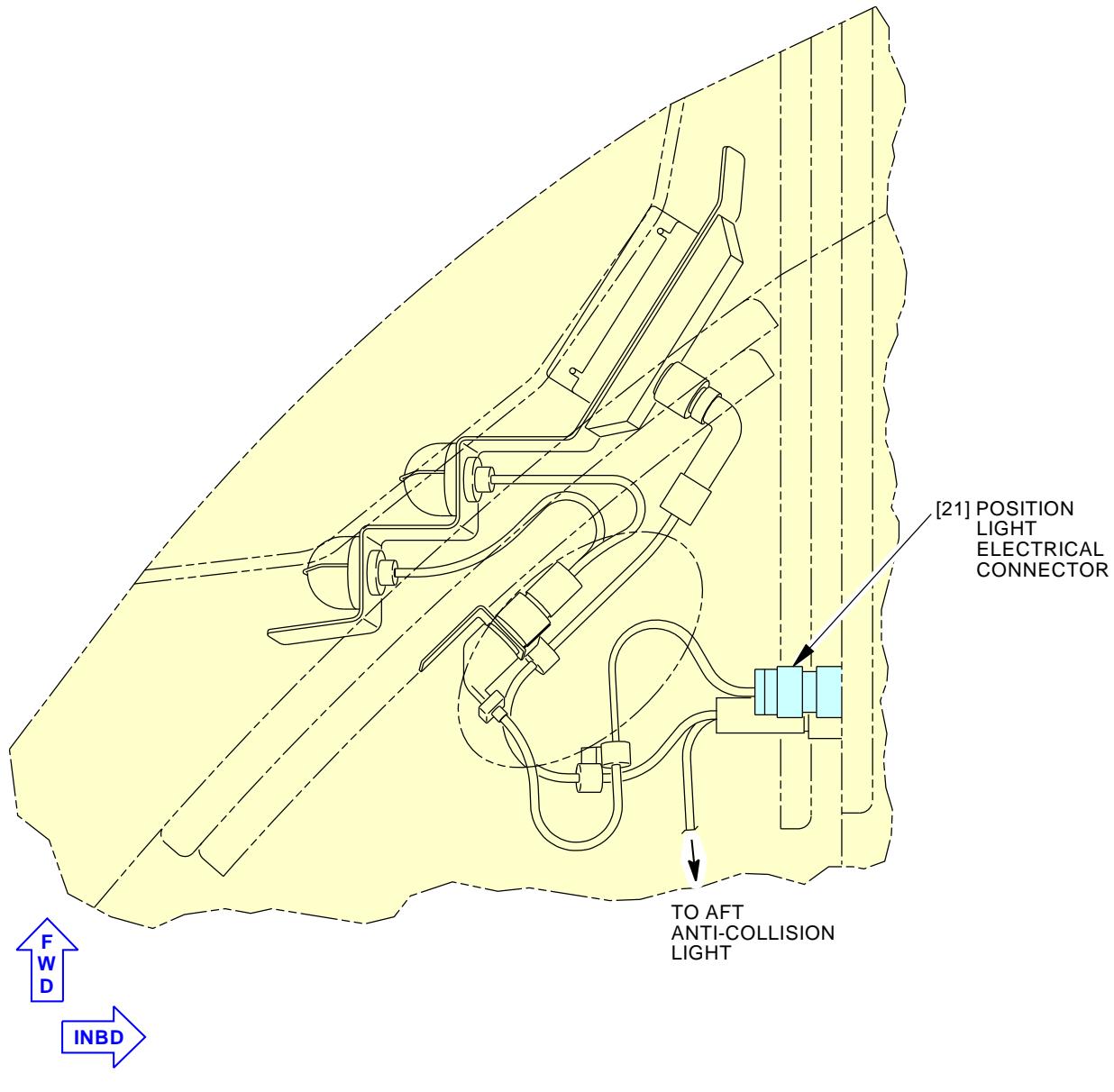
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POSITION LIGHTS ELECTRICAL CONNECTOR

B

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Position Lights - Disconnect/Connect the Electrical Connector
Figure 203/33-43-10-990-802 (Sheet 2 of 2)

EFFECTIVITY
AKS ALL; AIRPLANES WITH SINGLE FORWARD
LENS CONFIGURATION

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AKS ALL; AIRPLANES WITH SINGLE FORWARD LENS CONFIGURATION (Continued)

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

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
527	Left Winglet
627	Right Winglet

D. Access Panels

Number	Name/Location
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:

Number	Name/Location
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

Row	Col	Number	Name
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:

- (a) At the overhead panel, P5, set the switch for the position lights to the on mode.
 - 1) Make sure the applicable position lights come on.
- (b) Set the switch to the off mode.
 - 1) Make sure the lights go off.

EFFECTIVITY
AKS ALL; AIRPLANES WITH WINGLETS

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AIRCRAFT MAINTENANCE MANUAL

AKS ALL; AIRPLANES WITH SINGLE FORWARD LENS CONFIGURATION (Continued)

SUBTASK 33-43-10-860-010

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

———— END OF TASK ————

EFFECTIVITY
AKS ALL; AIRPLANES WITH WINGLETS

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AIRCRAFT MAINTENANCE MANUAL

WINGLET FORWARD POSITION LIGHTS - MAINTENANCE PRACTICES

1. General

- A. This procedure has the following task(s):

AKS ALL

- (1) Forward Position Light - Single Lamp Replacement
- (2) Forward Position Light - Dual Lamp Replacement
- (3) Forward Position Light - Light Assembly Replacement

AKS ALL; AIRPLANES WITH SINGLE FORWARD LENS CONFIGURATION

TASK 33-43-11-960-801

2. Forward Position Light with Single Lens - 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)
57-21-22-000-801	Forward Position Light and Anti-Collision Light Panel (Single Forward Lens) Removal (P/B 201)
57-21-22-400-802	Forward Position Light and Anti-Collision Light Panel (Single Forward Lens) Installation (P/B 201)
WDM 33-43-11	Wiring Diagram Manual

B. Consumable Materials

Reference	Description	Specification
G01043	Cloth - Lint-free	
G01306	Gloves - Lint-free	

C. Location Zones

Zone	Area
527	Left Winglet
627	Right Winglet

D. Procedure

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.

SUBTASK 33-43-11-860-001

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

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 33-43-11-020-001

- (2) Remove the leading edge assembly from the winglet.
 - (a) Do this task: Forward Position Light and Anti-Collision Light Panel (Single Forward Lens) Removal, TASK 57-21-22-000-801.

EFFECTIVITY
AKS ALL; AIRPLANES WITH WINGLETS

33-43-11



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AIRCRAFT MAINTENANCE MANUAL

AKS ALL; AIRPLANES WITH SINGLE FORWARD LENS CONFIGURATION (Continued)

SUBTASK 33-43-11-960-001

- (3) Do these steps to replace the lamp [4]:

NOTE: Do not touch the new lamp with your hands. Use lint-free gloves, G01306 or lint-free cloth, G01043.

- (a) Remove the stair-step bracket assembly from the leading edge assembly by removing the fasteners [2].
- (b) Use a small blade screwdriver, or equivalent tool, carefully pry the retainer clip [7] up and off the lens [3].
- (c) Loosen the fasteners [6] and remove the reflector assembly [5].
- (d) Replace the lamp [4].
- (e) Install the reflector assembly [5] and tighten the fasteners [6].
- (f) Replace the lens [3] and move the retainer clip [7] to the top of the lens until the clip is between the glass dimples.
- (g) To replace the other lamp, do this procedure again.
- (h) Put the stair-step bracket assembly back in its position against the leading edge assembly structure.
- (i) Attach the bracket to the leading edge assembly with the fasteners [2].

SUBTASK 33-43-11-960-002

- (4) Replace the leading edge assembly.

- (a) Do this task: Forward Position Light and Anti-Collision Light Panel (Single Forward Lens) Installation, TASK 57-21-22-400-802.

SUBTASK 33-43-11-860-002

- (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

SUBTASK 33-43-11-860-003

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

SUBTASK 33-43-11-710-001

- (7) Do a test of the new lamps:

- (a) At the overhead panel, P5, set the switch for the position lights 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.

SUBTASK 33-43-11-860-004

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

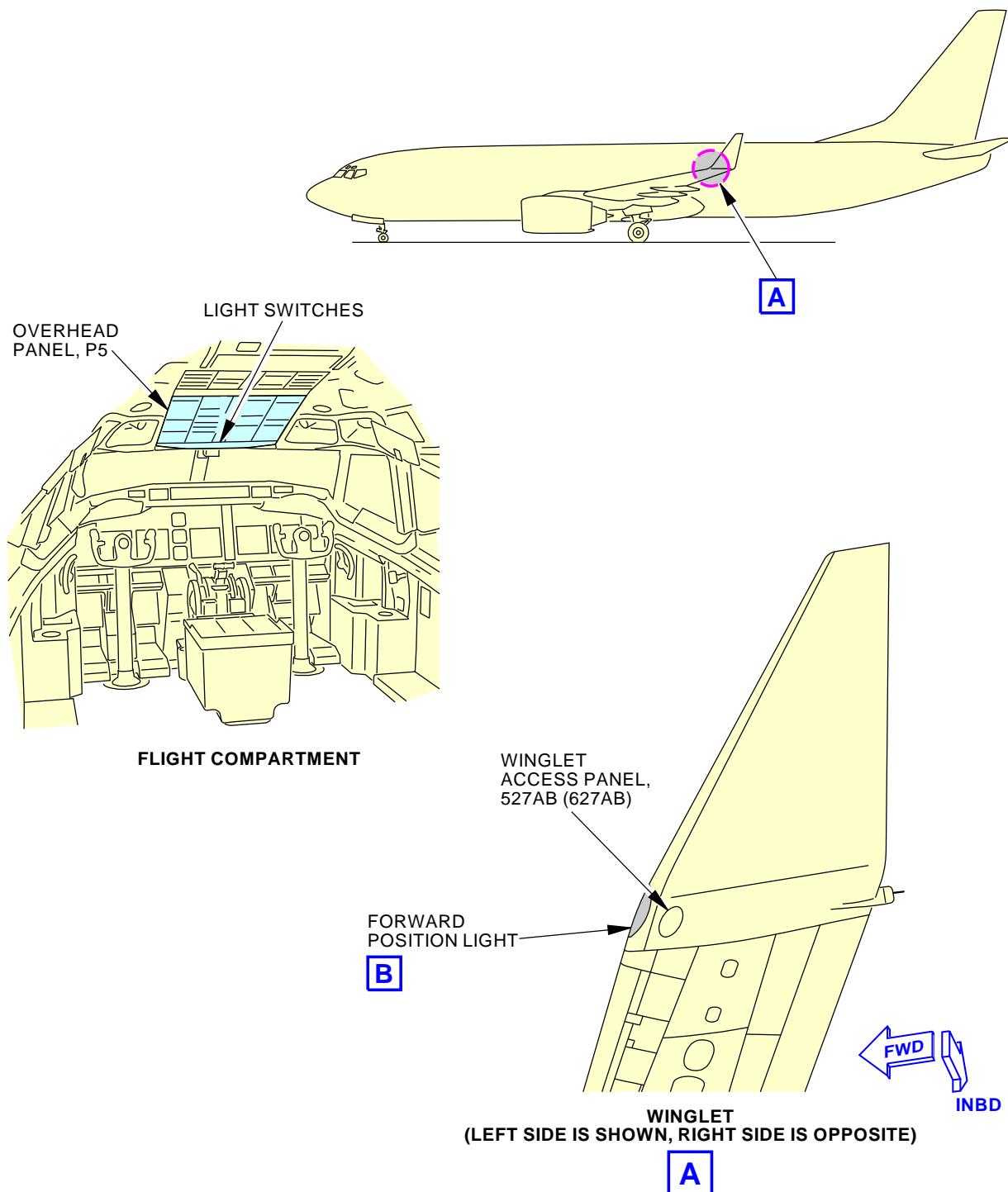
———— END OF TASK ————

EFFECTIVITY
AKS ALL; AIRPLANES WITH WINGLETS

33-43-11



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



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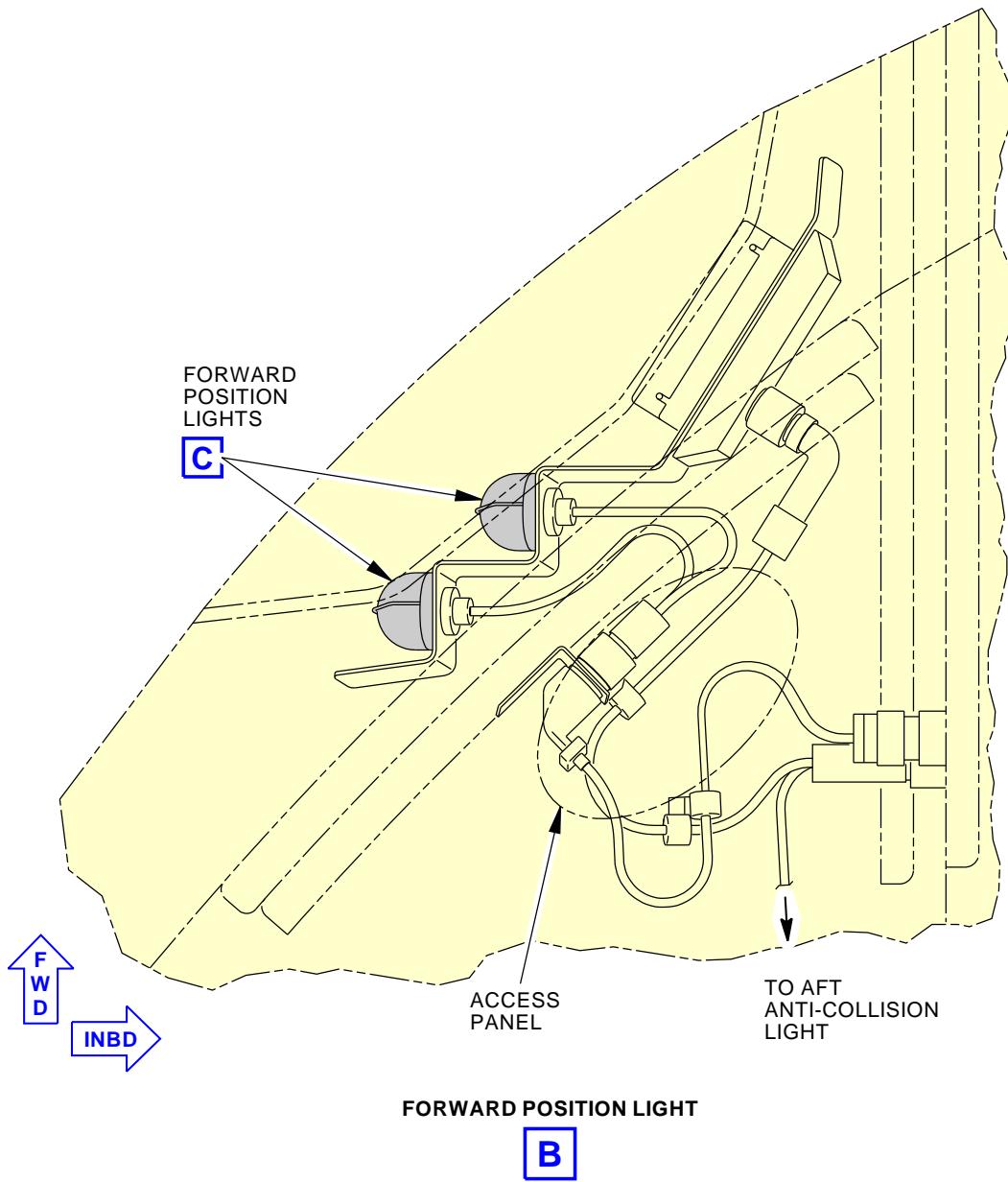
Forward Position Light - Lamp Replacement
Figure 201/33-43-11-990-801 (Sheet 1 of 3)

EFFECTIVITY
AKS ALL; AIRPLANES WITH SINGLE FORWARD
LENS CONFIGURATION

33-43-11



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AIRCRAFT MAINTENANCE MANUAL



L83279 S0006576227_V2

Forward Position Light - Lamp Replacement
Figure 201/33-43-11-990-801 (Sheet 2 of 3)

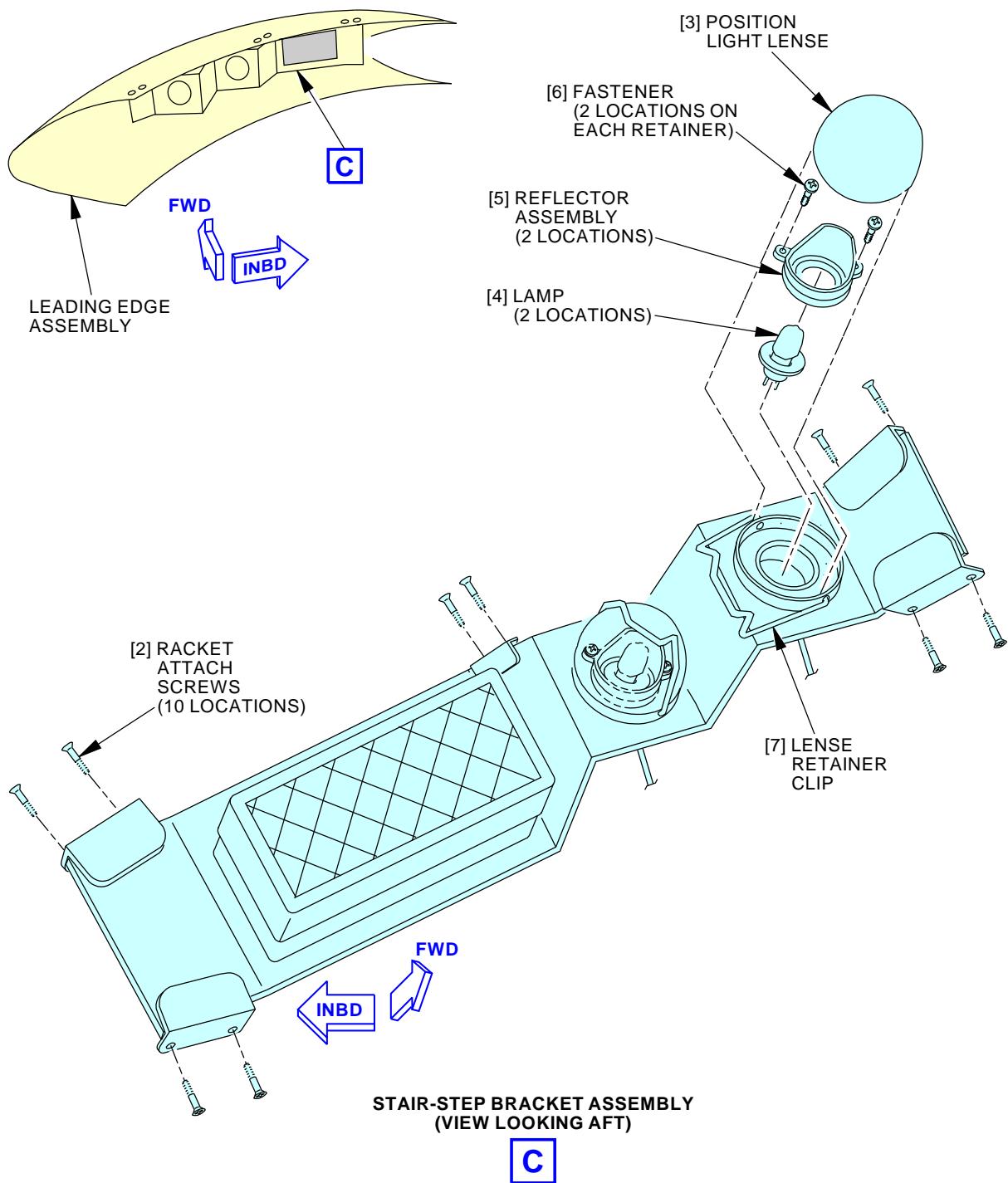
EFFECTIVITY
AKS ALL; AIRPLANES WITH SINGLE FORWARD
LENS CONFIGURATION

33-43-11

D633A101-AKS

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AIRCRAFT MAINTENANCE MANUAL**


M00239 S0006576228_V2

Forward Position Light - Lamp Replacement
Figure 201/33-43-11-990-801 (Sheet 3 of 3)

EFFECTIVITY
AKS ALL; AIRPLANES WITH SINGLE FORWARD
LENS CONFIGURATION

33-43-11



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

AKS ALL; AIRPLANES WITH DUAL FORWARD LENS CONFIGURATION

TASK 33-43-11-960-802

3. Forward Position Light with Dual Lens - Lamp Replacement

(Figure 202)

A. General

- (1) This procedure contains instructions to replace the forward position lamp or LED module.

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)
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 Meters - 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 #: C15292 (MODEL T477W) Supplier: 01014 Part #: M1 Supplier: 3AD17 Opt Part #: M1B Supplier: 3AD17

D. Consumable Materials

Reference	Description	Specification
G01043	Cloth - Lint-free	
G01306	Gloves - Lint-free	

E. Location Zones

Zone	Area
527	Left Winglet
627	Right Winglet

F. Procedure

AKS 001; AIRPLANES WITHOUT LED 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.

EFFECTIVITY
AKS ALL; AIRPLANES WITH WINGLETS

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AKS 002-999; AIRPLANES WITH LED WINGLET LIGHTS

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.

AKS ALL; AIRPLANES WITH DUAL FORWARD LENS CONFIGURATION

SUBTASK 33-43-11-860-010

- (1) 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>
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

AKS 001; AIRPLANES WITHOUT LED 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] (Figure 202 (Sheet 2)):

NOTE: Do not touch the new lamp with your hands. Use lint-free gloves, G01306 or lint-free cloth, G01043.

- (a) Remove the fasteners [3] and remove the reflector assembly [2].
- (b) Replace the lamp [1].
- (c) Install the reflector assembly [2] and ground wire [4] with the two fasteners [3].
- (d) To replace the other lamp, do this procedure again.
- (e) With the electrical bonding intrinsically safe approved bonding meter, COM-1550, make sure that the resistance between the reflector assembly and light support measures no more than 0.0025 ohms.

AKS 002-999; 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 202 (Sheet 3)):

NOTE: Do not touch the new LED module [1] with your hands, use a lint-free cloth, G01043, or lint-free gloves, G01306.

- (a) Loosen the two fasteners [3] and remove the LED module [1].
- (b) Replace the LED module [1].
- (c) Install the LED module [1] and tighten the two fasteners [3].

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AKS ALL; AIRPLANES WITH WINGLETS

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AKS 002-999; AIRPLANES WITH LED WINGLET LIGHTS (Continued)

- (d) To replace the other LED module [1], do this procedure again.

AKS 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

SUBTASK 33-43-11-860-008

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

SUBTASK 33-43-11-710-002

- (8) Do a test of the new lamps:

- (a) At the overhead panel, P5, set the switch for the position lights 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.

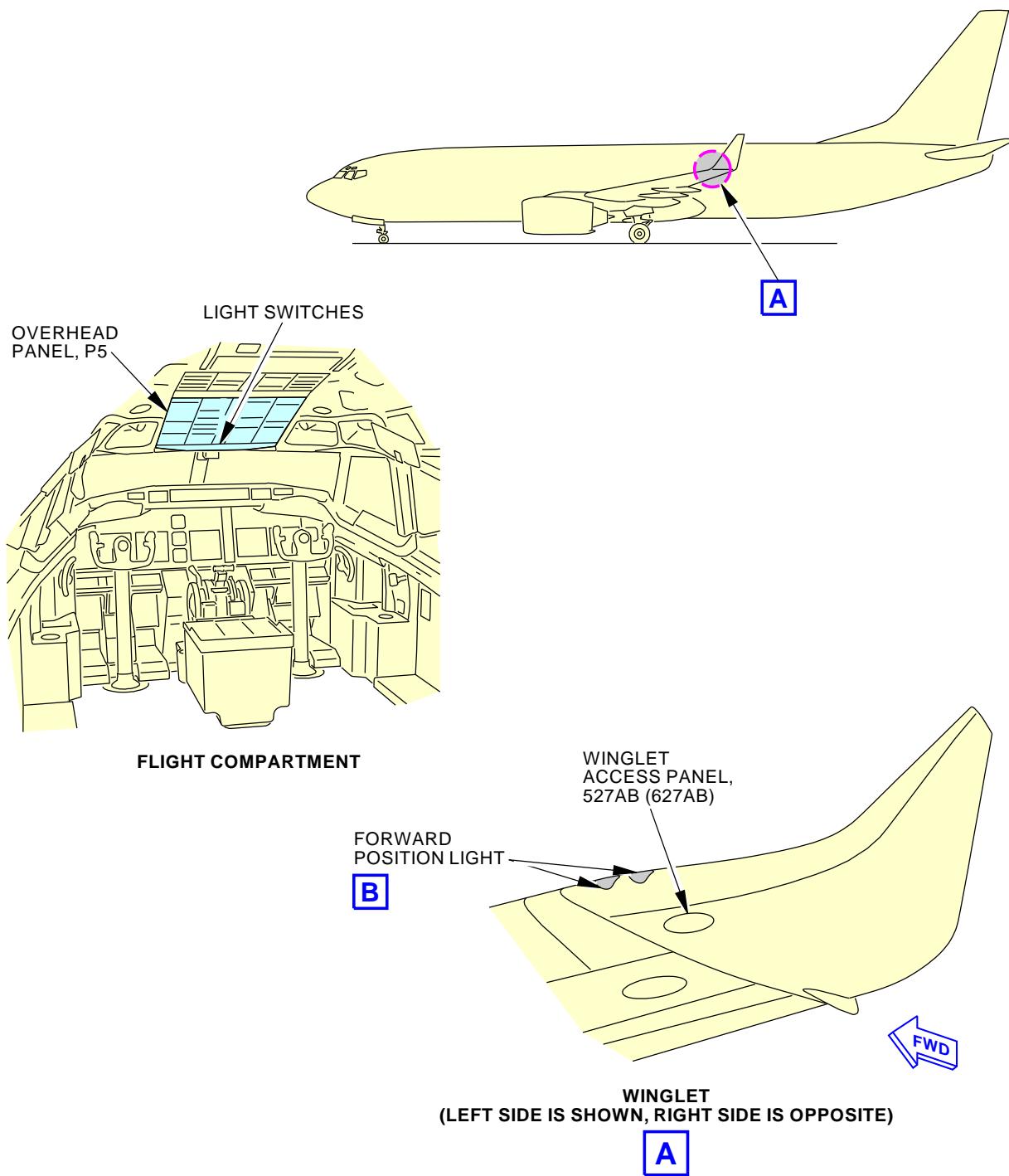
SUBTASK 33-43-11-860-011

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

———— END OF TASK ————

EFFECTIVITY
AKS ALL; AIRPLANES WITH WINGLETS

33-43-11



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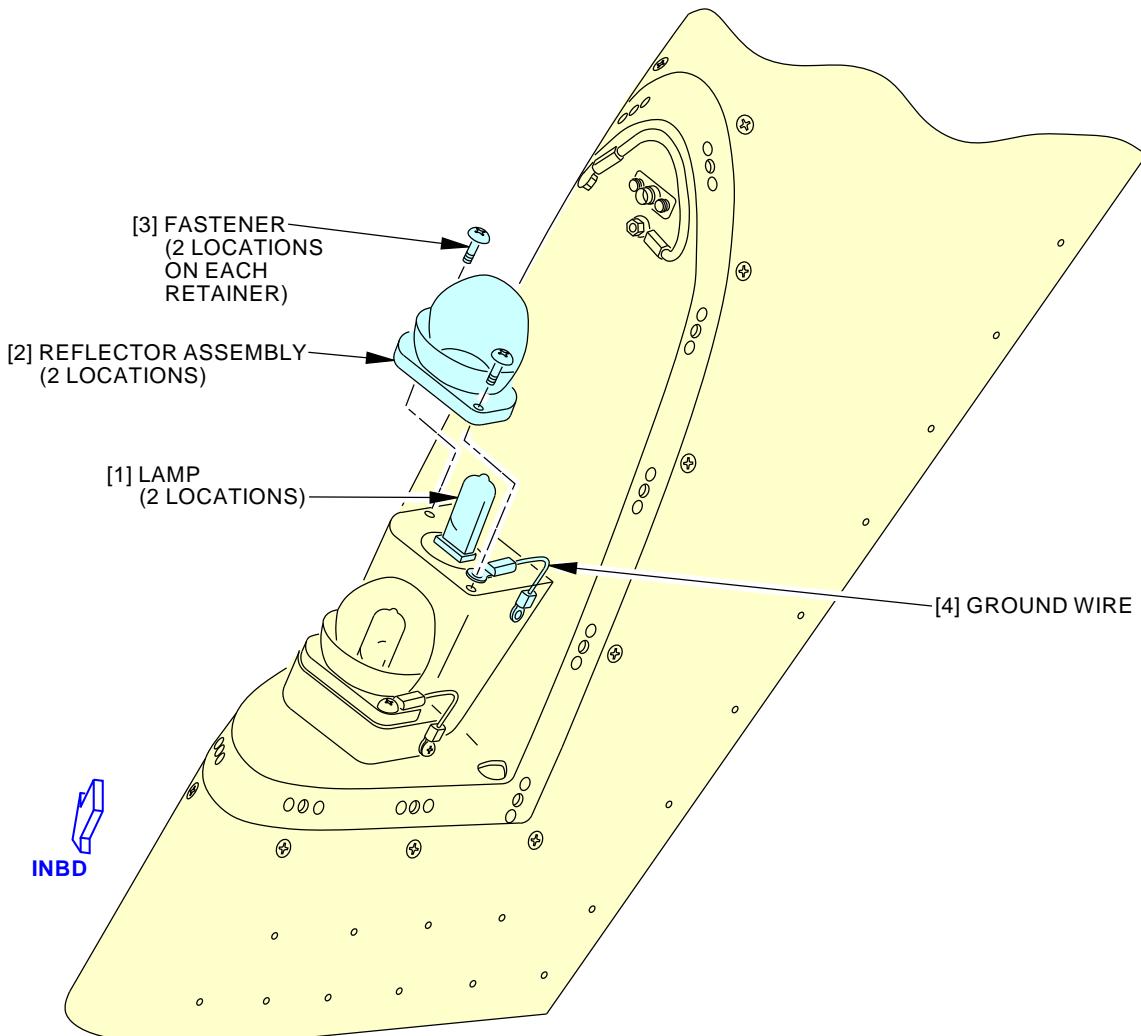
**Forward Position Light - Lamp Replacement
Figure 202/33-43-11-990-802 (Sheet 1 of 3)**

EFFECTIVITY
AKS ALL; AIRPLANES WITH DUAL FORWARD LENS
CONFIGURATION

33-43-11



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AIRCRAFT MAINTENANCE MANUAL



FORWARD POSITION LIGHT
(POSITION LIGHT LENS ASSEMBLY REMOVED)

B

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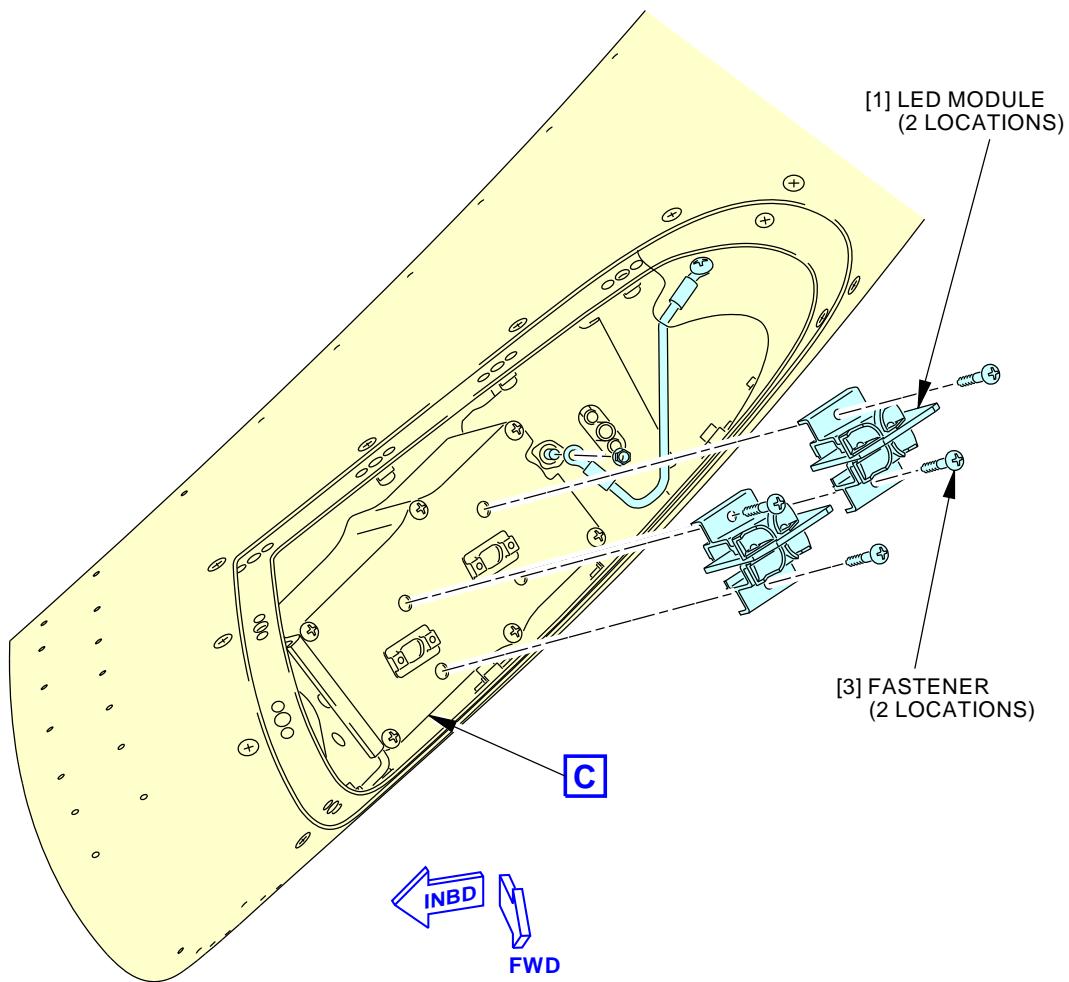
Forward Position Light - Lamp Replacement
Figure 202/33-43-11-990-802 (Sheet 2 of 3)

EFFECTIVITY
AKS 001; AIRPLANES WITHOUT LED WINGLET
LIGHTS

33-43-11



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FORWARD POSITION LIGHT
(POSITION LIGHT LENS ASSEMBLY REMOVED)

B

2273498 S0000511805_V2

Forward Position Light - Lamp Replacement
Figure 202/33-43-11-990-802 (Sheet 3 of 3)

EFFECTIVITY
AKS 002-999; AIRPLANES WITH LED WINGLET
LIGHTS

33-43-11



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AIRCRAFT MAINTENANCE MANUAL

AKS ALL; AIRPLANES WITH DUAL FORWARD LENS CONFIGURATION (Continued)

TASK 33-43-11-960-804

4. Forward Position Light – Light Assembly Replacement

Figure 203

A. General

- (1) This task contains instructions to replace the light assembly for the forward position light.
- (2) There are two lamps or LED modules in each light assembly.

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)
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)
SSM 20-20-00	SWPM

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 Meters - 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 #: C15292 (MODEL T477W) Supplier: 01014 Part #: M1 Supplier: 3AD17 Opt Part #: M1B Supplier: 3AD17

D. Consumable Materials

Reference	Description	Specification
C00528	Compound - Corrosion Preventive, Petroleum Hot Application (Soft Film)	MIL-C-11796 Class III

E. Location Zones

Zone	Area
527	Left Winglet
627	Right Winglet

F. Access Panels

Number	Name/Location
527AB	Winglet Access Panel
627AB	Winglet Access Panel

EFFECTIVITY
AKS ALL; AIRPLANES WITH WINGLETS

33-43-11



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AIRCRAFT MAINTENANCE MANUAL

AKS ALL; AIRPLANES WITH DUAL FORWARD LENS CONFIGURATION (Continued)

G. Prepare for the procedure

SUBTASK 33-43-11-860-012

- (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	12	C00113	EXTERIOR LIGHTING POSITION RIGHT
A	13	C00114	EXTERIOR LIGHTING POSITION LEFT

SUBTASK 33-43-11-020-006

- (2) 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

- (3) Open the applicable access panel under the left or right winglet.

Open these access panels:

Number Name/Location

527AB	Winglet Access Panel
627AB	Winglet Access Panel

H. Procedure

SUBTASK 33-43-11-020-007

- (1) Do these steps to remove the forward position light assembly:
- Disconnect the electrical connector [11] through the access door.
 - Remove the screw [14] and spacer [12] to disconnect the clamp [13] from the cable support.
 - Remove the screws [22] from the leading edge skin.
 - Carefully remove the light assembly from the leading edge skin. Push the light assembly into the winglet.
 - Remove the remaining sealant from the faying surfaces of the skin if necessary.

SUBTASK 33-43-11-420-004

- (2) Do these steps to install a new forward position light assembly:
- At the 4 electrical bonding locations, prepare the electrical bonding surfaces (SSM 20-20-00).
 - Install the screws [22] with the corrosion-preventative compound, C00528 applied to all areas of the fastener hole.
 - Tighten the screws [22] to 8.00 in-lb (0.90 N·m) - 12.00 in-lb (1.36 N·m).
 - With the electrical bonding intrinsically safe approved bonding meter, COM-1550, make sure the resistance between the light assembly and the leading edge skin measures no more than 0.0005 ohms.
 - 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.
 - Connect the electrical connector [11] through the access door.

SUBTASK 33-43-11-410-002

- (3) Close the applicable access panel under the left or right winglet.

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AKS ALL; AIRPLANES WITH DUAL FORWARD LENS CONFIGURATION (Continued)

Close these access panels:

<u>Number</u>	<u>Name/Location</u>
527AB	Winglet Access Panel
627AB	Winglet Access Panel

SUBTASK 33-43-11-860-013

- (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	12	C00113	EXTERIOR LIGHTING POSITION RIGHT
A	13	C00114	EXTERIOR LIGHTING POSITION LEFT

SUBTASK 33-43-11-860-014

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

SUBTASK 33-43-11-710-004

- (6) Do a test of the new light assembly.
- At the overhead panel, P5, set the switch for the position lights to the ON mode.
 - Make sure that the lights come on.
 - Set the switch to the OFF mode.
 - Make sure that the lights go off.

SUBTASK 33-43-11-860-015

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

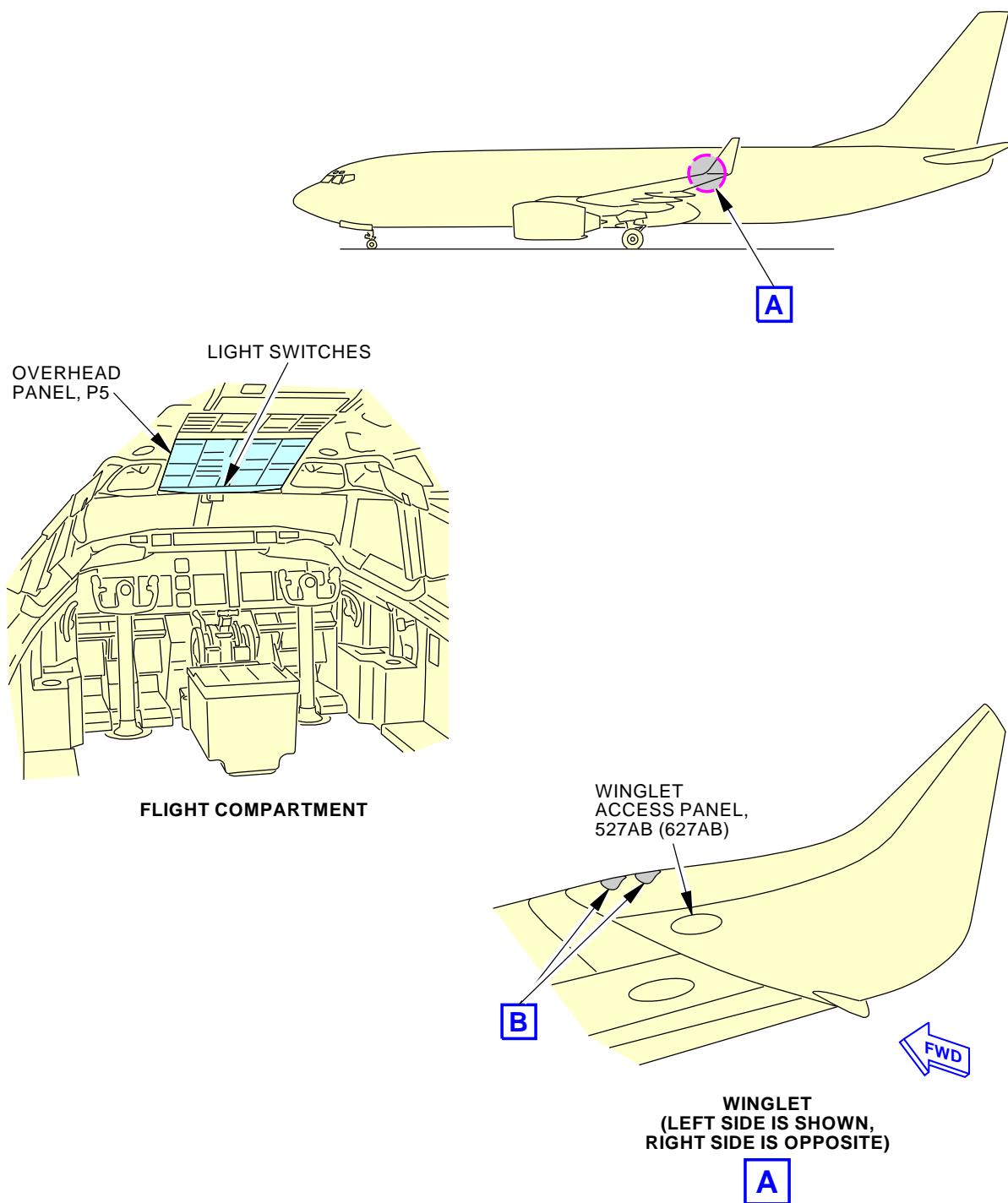
———— END OF TASK ————

EFFECTIVITY
AKS ALL; AIRPLANES WITH WINGLETS

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AIRCRAFT MAINTENANCE MANUAL



2368279 S0000542403_V2

Forward Position Light - Light Assembly Replacement
Figure 203/33-43-11-990-804 (Sheet 1 of 4)

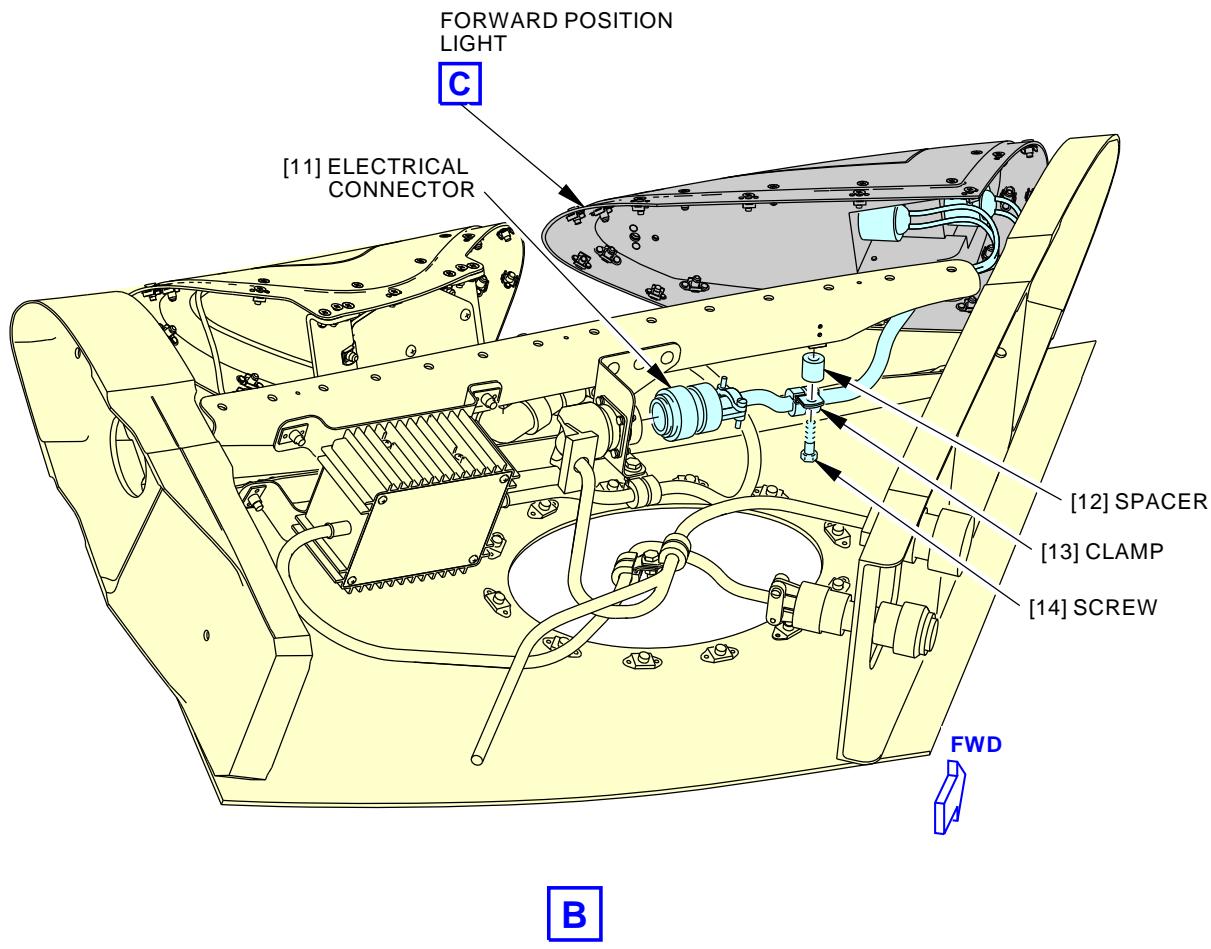
EFFECTIVITY
AKS ALL; AIRPLANES WITH DUAL FORWARD LENS
CONFIGURATION

33-43-11

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2368299 S0000542404_V2

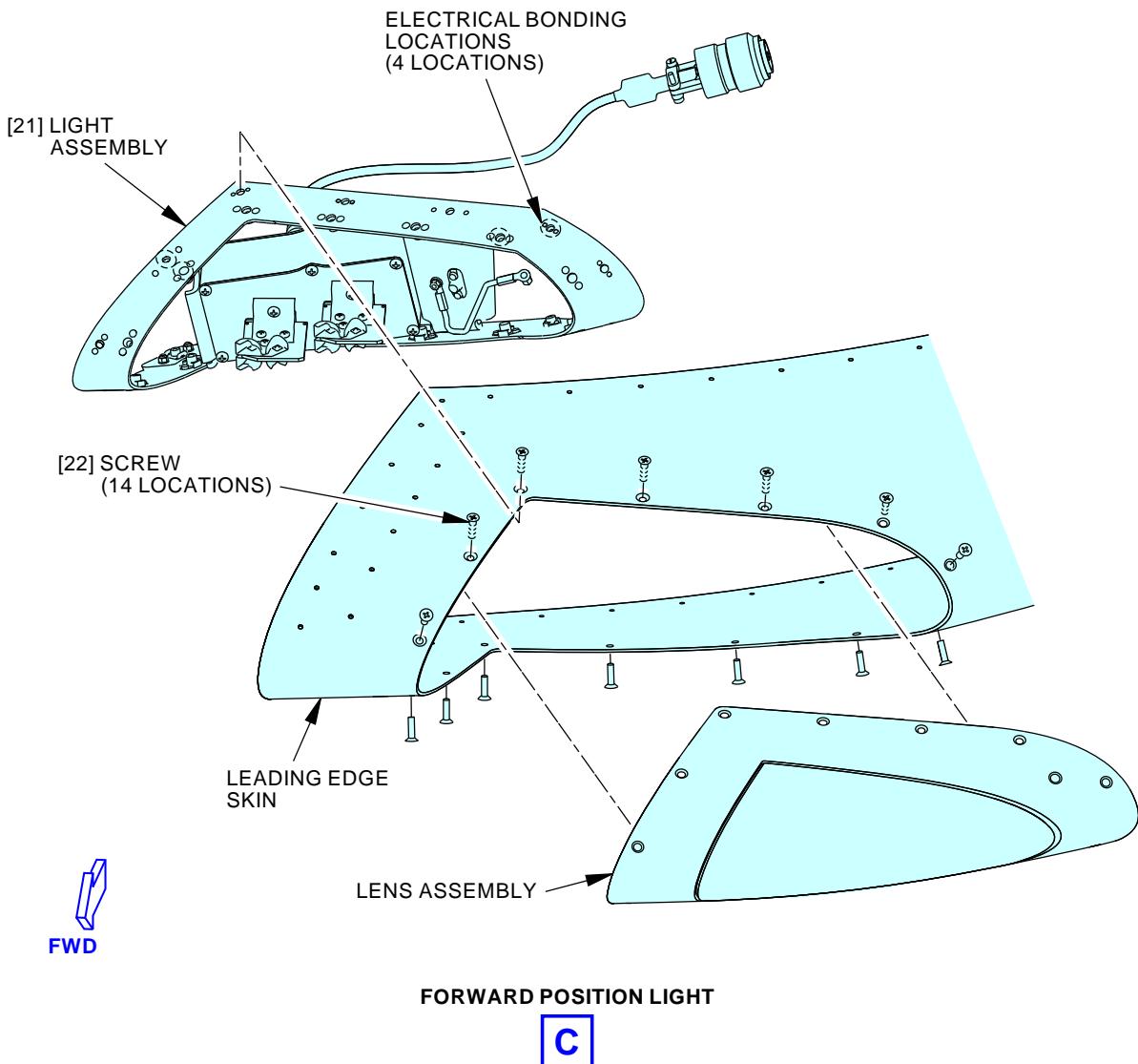
Forward Position Light - Light Assembly Replacement
Figure 203/33-43-11-990-804 (Sheet 2 of 4)

EFFECTIVITY
AKS ALL; AIRPLANES WITH DUAL FORWARD LENS
CONFIGURATION

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2368317 S0000542405_V2

Forward Position Light - Light Assembly Replacement
Figure 203/33-43-11-990-804 (Sheet 3 of 4)

EFFECTIVITY
AKS 002-999; AIRPLANES WITH LED WINGLET
LIGHTS

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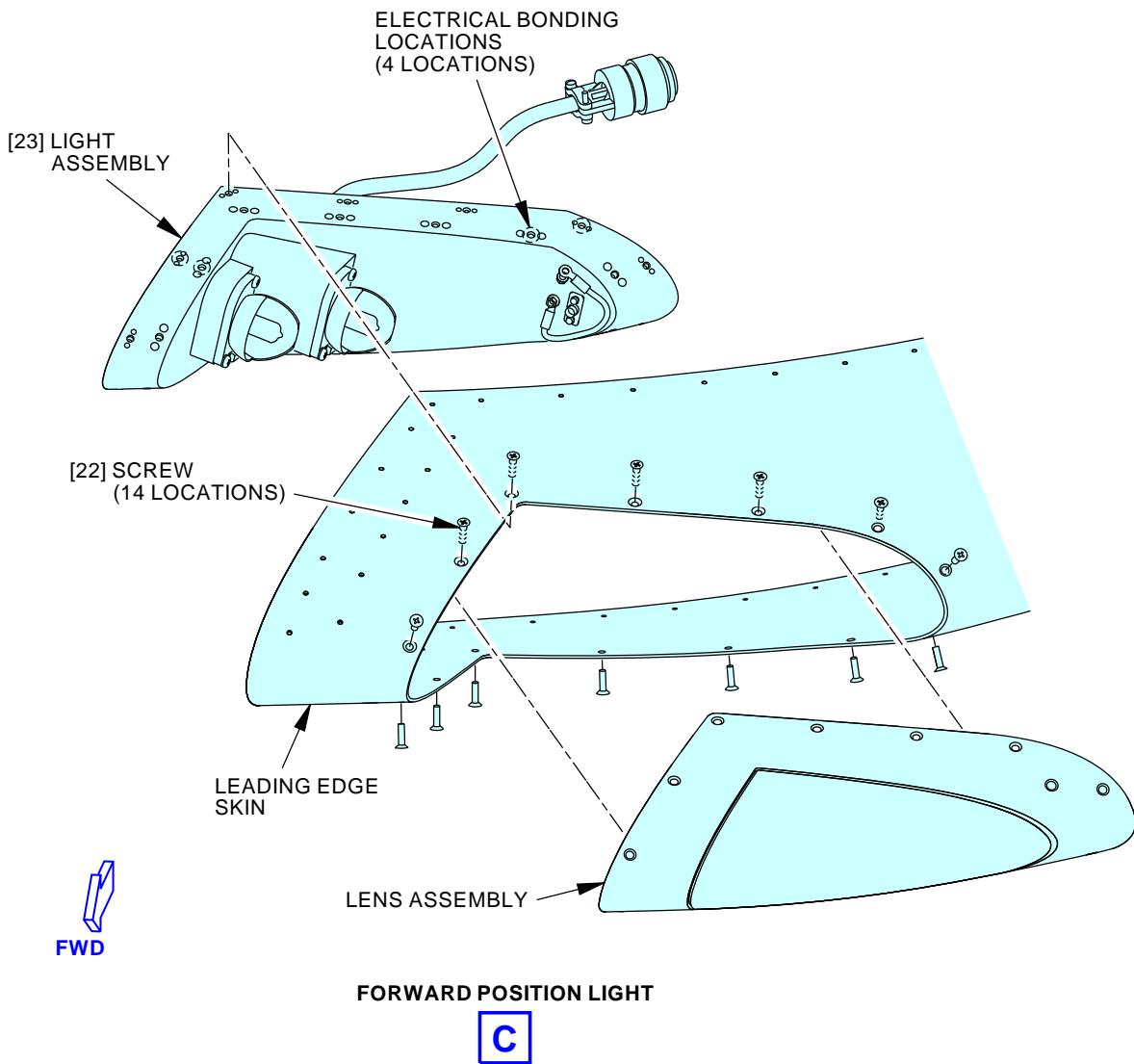
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2370996 S0000542531_V2

Forward Position Light - Light Assembly Replacement
Figure 203/33-43-11-990-804 (Sheet 4 of 4)

EFFECTIVITY
AKS 001; AIRPLANES WITHOUT LED WINGLET
LIGHTS

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WINGLET AFT POSITION LIGHTS - MAINTENANCE PRACTICES

1. General

- A. This procedure has these tasks:
- (1) Aft Position Lights - Deactivation.
 - (2) Aft Position Lights - Activation.
 - (3) Aft Position Light - Lamp Replacement.
 - (4) Aft Position Light - Light Assembly Replacement.

TASK 33-43-12-040-801

2. Aft Position Lights - Deactivation

(Figure 201)

A. General

- (1) This procedure removes electrical power to 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. Procedure

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 the Aft Position Lights are in a zero energy state.

SUBTASK 33-43-12-700-001

- (1) At the overhead panel, P5, set the position lights switch to the ON (STEADY or STROBE & STEADY) mode.
 - (a) Make sure none of the position lights come on.

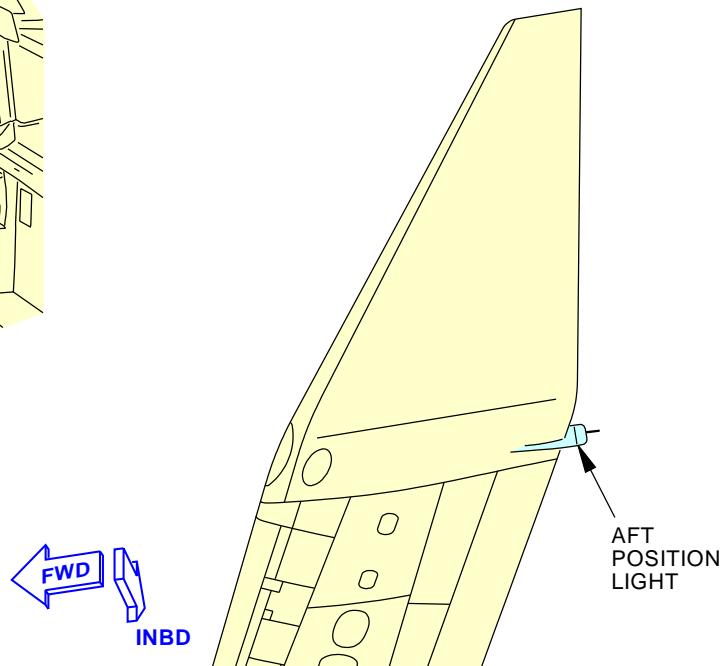
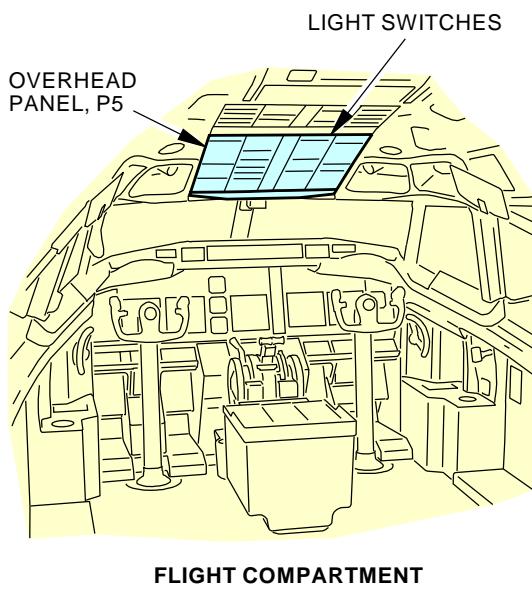
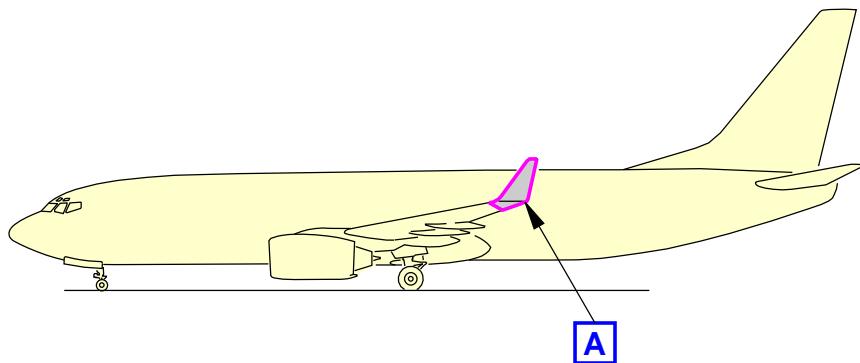
———— END OF TASK ————

EFFECTIVITY
AKS ALL; AIRPLANES WITH WINGLETS

33-43-12



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AIRCRAFT MAINTENANCE MANUAL



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
AKS ALL; AIRPLANES WITH WINGLETS

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D633A101-AKS

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AIRCRAFT MAINTENANCE MANUAL

TASK 33-43-12-440-801

3. Aft Position Lights - Activation

(Figure 201)

A. General

- (1) This procedure adds electrical power to 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. Procedure

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 procedure contains instructions to replace the lamps or LED modules for the aft position light.

AKS 001; AIRPLANES WITHOUT LED 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.

AKS 002-999; AIRPLANES WITH LED WINGLET LIGHTS

- (3) 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.

AKS ALL; AIRPLANES WITH WINGLETS

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)
WDM 33-43-11	Wiring Diagram Manual

C. Consumable Materials

Reference	Description	Specification
G01306	Gloves - Lint-free	



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D. Location Zones

Zone	Area
527	Left Winglet
627	Right Winglet

E. Procedure

SUBTASK 33-43-12-860-001

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
A	12	C00113	EXTERIOR LIGHTING POSITION RIGHT
A	13	C00114	EXTERIOR LIGHTING POSITION LEFT

AKS 001; AIRPLANES WITHOUT LED WINGLET LIGHTS

SUBTASK 33-43-12-960-001

- (2) Replace the lamp [1] (Figure 202 (Sheet 2)):

NOTE: Do not touch the new lamp with your hands. Use lint-free gloves, G01306.

- (a) Loosen the fasteners [5] and remove the lens assembly [3].

NOTE: The lanyard remains connected to the lens assembly.

- (b) Loosen the fasteners [4] and remove the reflector assembly [2].

NOTE: The lanyard remains connected to the reflector assembly.

- (c) Replace the two 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.

- (d) Install the reflector assembly [2] and tighten the fasteners [4].

- (e) Install the lens assembly [3] and tighten the fasteners [5].

AKS 002-999; AIRPLANES WITH LED WINGLET LIGHTS

SUBTASK 33-43-12-960-003

- (3) Replace the LED module [1] (Figure 202 (Sheet 3)):

NOTE: Do not touch the new LED module with your hands. Use lint-free gloves, G01306.

- (a) Loosen the four fasteners [5] and remove the lens assembly [3].

- (b) Loosen the two fasteners [4] and remove the LED module [1].

- (c) Replace the LED module [1].

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.

- (d) Install the LED module [1] and tighten the two fasteners [4].

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AKS 002-999; AIRPLANES WITH LED WINGLET LIGHTS (Continued)

- (e) Install the lens assembly [3] and tighten the four fasteners [5].

AKS 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 33-43-12-860-003

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

SUBTASK 33-43-12-710-001

- (6) Do a test of the new lamps:

- (a) At the overhead panel, P5, set the switch for the position lights to the on mode.
 - 1) Make sure the lamps come on.
- (b) Set the switch to the off mode.
 - 1) Make sure the lamps go off.

SUBTASK 33-43-12-860-004

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

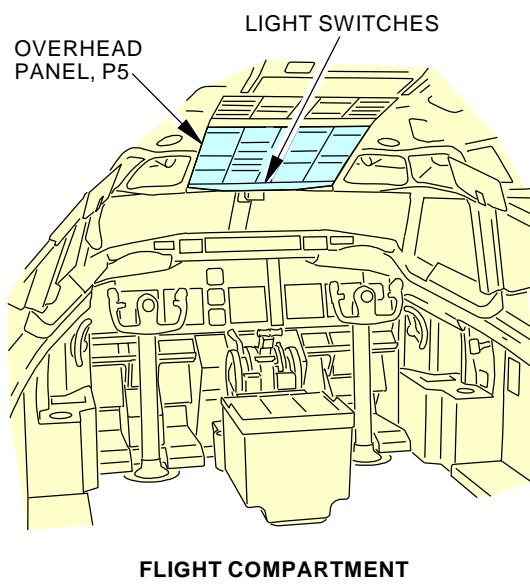
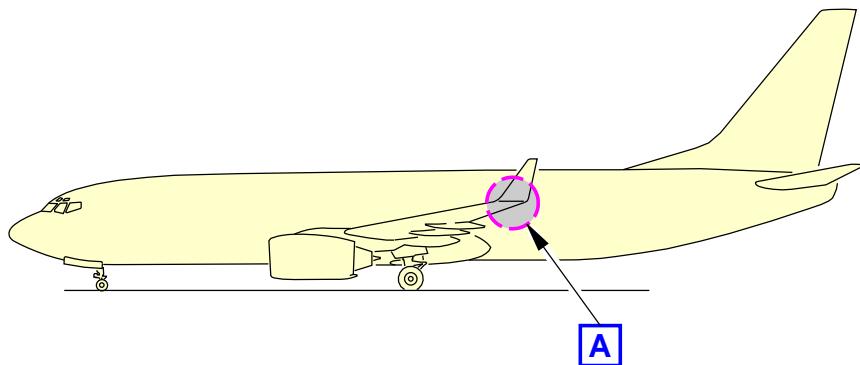
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EFFECTIVITY
AKS ALL; AIRPLANES WITH WINGLETS

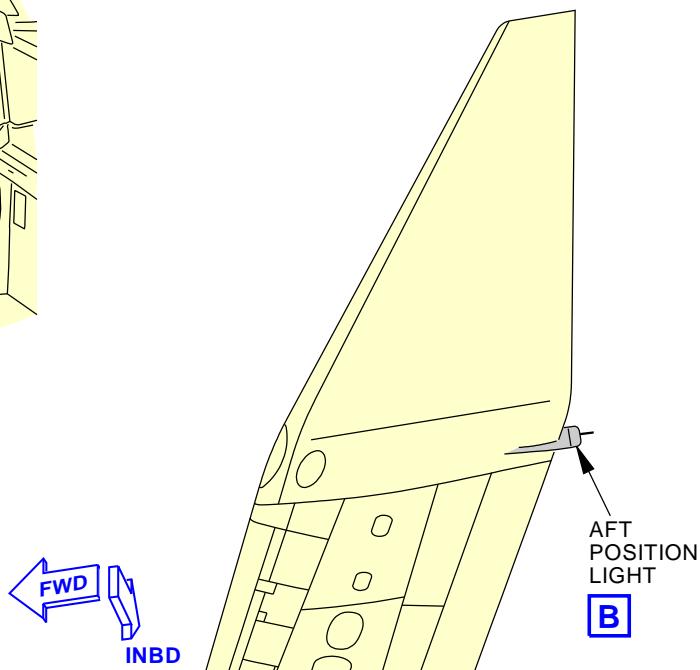
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FLIGHT COMPARTMENT



WING TIP
(LEFT SIDE IS SHOWN, RIGHT SIDE IS OPPOSITE)



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Aft Position Light - Lamp Replacement
Figure 202/33-43-12-990-801 (Sheet 1 of 3)

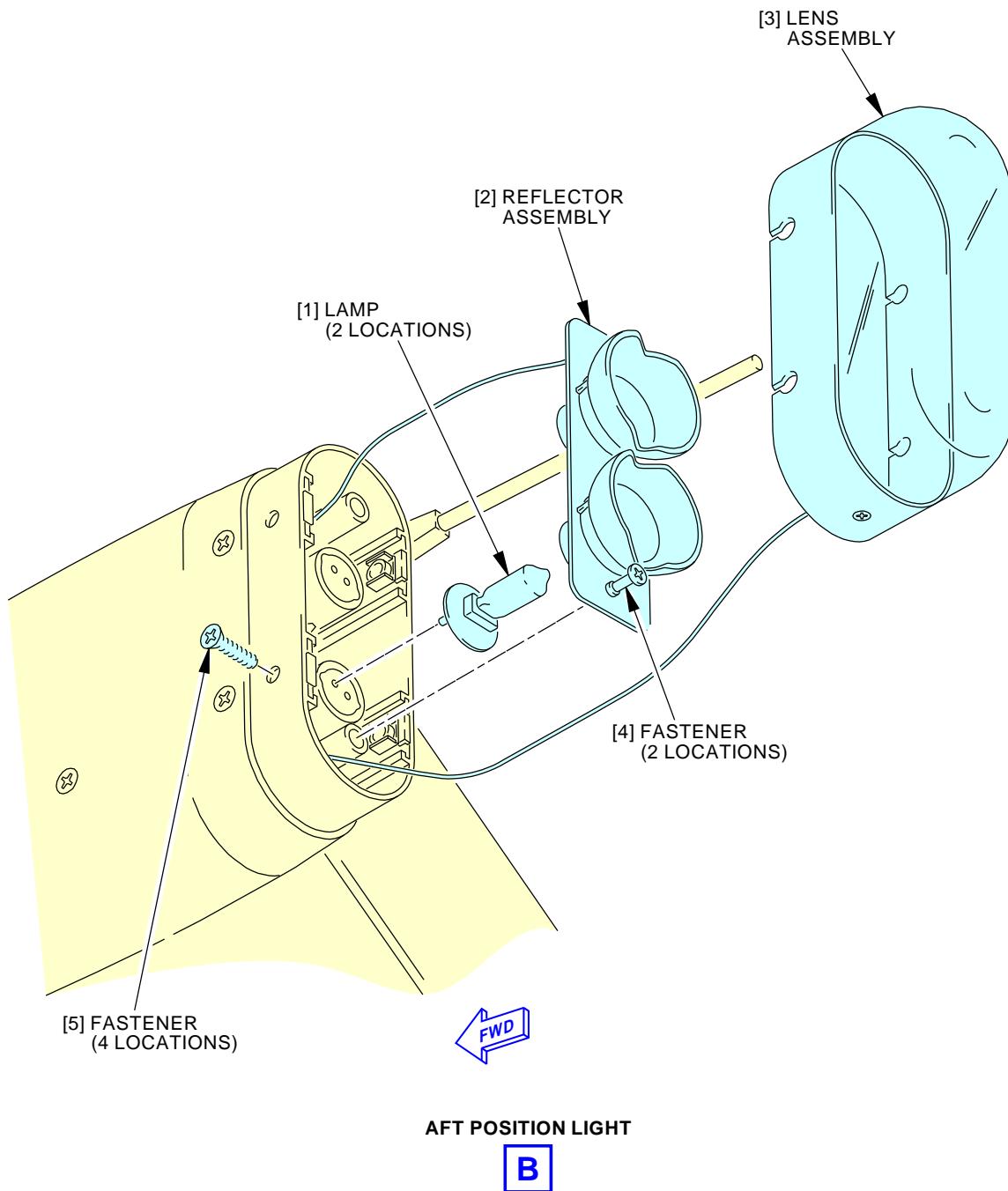
EFFECTIVITY
AKS ALL; AIRPLANES WITH WINGLETS

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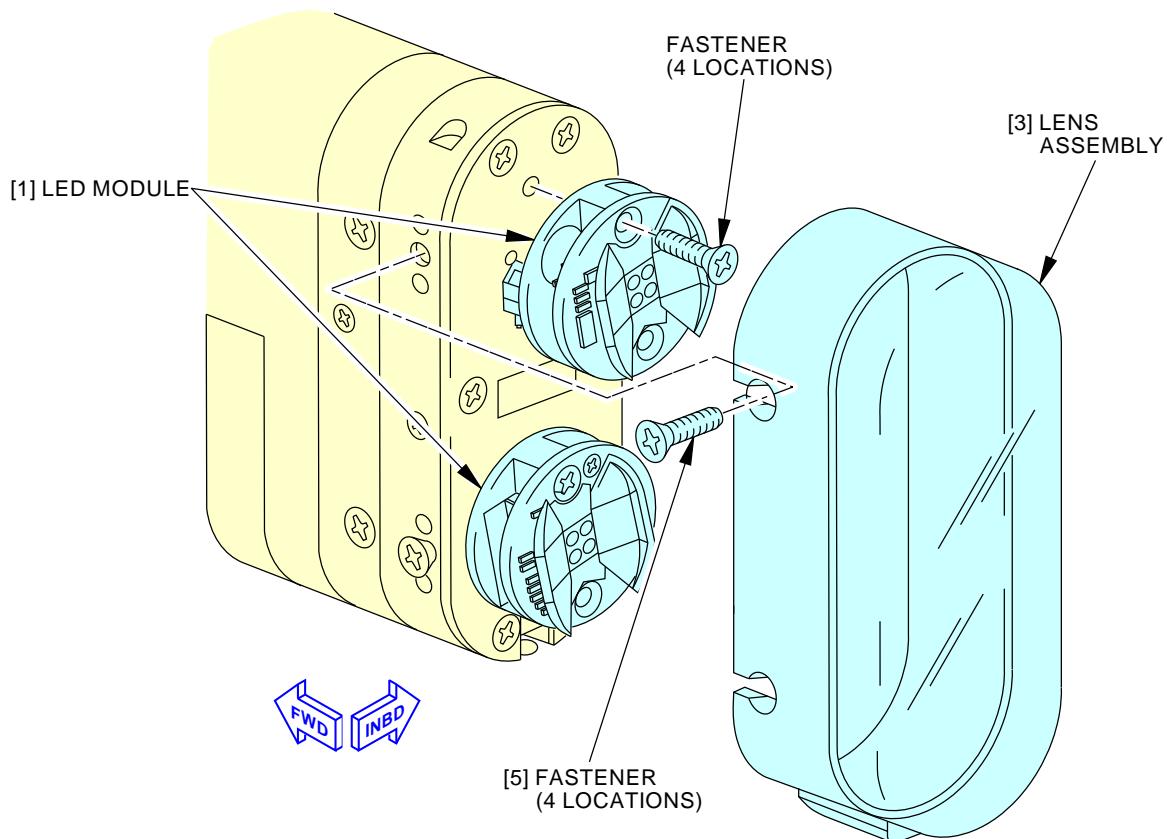
Aft Position Light - Lamp Replacement
Figure 202/33-43-12-990-801 (Sheet 2 of 3)

EFFECTIVITY
AKS 001; AIRPLANES WITHOUT LED WINGLET
LIGHTS

33-43-12



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AFT POSITION LIGHT



2273537 S0000511810_V2

Aft Position Light - Lamp Replacement
Figure 202/33-43-12-990-801 (Sheet 3 of 3)

EFFECTIVITY
AKS 002-999; AIRPLANES WITH LED WINGLET
LIGHTS

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TASK 33-43-12-960-802

5. Aft Position Light - Light Assembly Replacement

(Figure 203)

A. General

- (1) This procedure gives the task to replace the light assembly for the aft position light.
- (2) There are two lamps or LED modules in each light assembly.

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)
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)
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 Meters - 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 #: C15292 (MODEL T477W) Supplier: 01014 Part #: M1 Supplier: 3AD17 Opt Part #: M1B Supplier: 3AD17

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

E. Location Zones

Zone	Area
527	Left Winglet
627	Right Winglet

F. Procedure

SUBTASK 33-43-12-860-005

- (1) Open the applicable circuit breakers and install the 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

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SUBTASK 33-43-12-010-001

- (2) Remove the lower canoe fairing for the aft position light.
 - (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 washer [24] on the jumper.
 - (e) Disconnect the jumper [23].
 - (f) Replace the light assembly [22].
 - 1) Make sure the lamps are installed in the new light assembly [22].
 - (g) Connect the jumper [23] to the new light assembly.
 - (h) Install the washer [24] and screw [25].
 - 1) Apply a fillet seal of sealant, A00247, between the jumper [23], washer [24], and screw [25].

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- (i) Apply sealant, A02315, at the seam between the light assembly [22] and the fairing.
 - 1) Keep the sealant, A02315, away from the lens assembly [3]. Removal of the lens assembly [3] is permitted.

AKS 002-999; AIRPLANES WITH LED WINGLET LIGHTS

- (j) Apply sealant, A02315 or sealant, A00247 at the seam between the light assembly [22] and the fairing.

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- (k) Put the light assembly [22] in the fairing.
- (l) With the electrical bonding intrinsically safe approved bonding meter, COM-1550, make sure the resistance between the new assembly and the airplane structure measures no more than 0.0025 ohms.
- (m) Install the bolts [26] with the corrosion-preventative compound, C00528.
 - 1) Torque the bolts [26] to 15 in-lb (2 N·m) - 18 in-lb (2 N·m) in a crossing pattern from top to bottom.
- (n) If the lens assembly was removed, install it.
- (o) Make sure that the electrical connections and lamp terminals are clean for good electrical contact.
- (p) 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.

EFFECTIVITY
AKS ALL; AIRPLANES WITH WINGLETS

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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 33-43-12-860-007

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

SUBTASK 33-43-12-710-002

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

- (a) At the overhead panel, P5, set the switch for the position 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 33-43-12-860-008

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

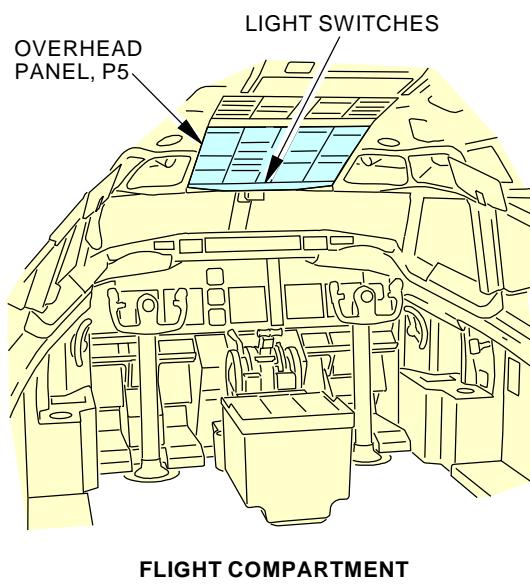
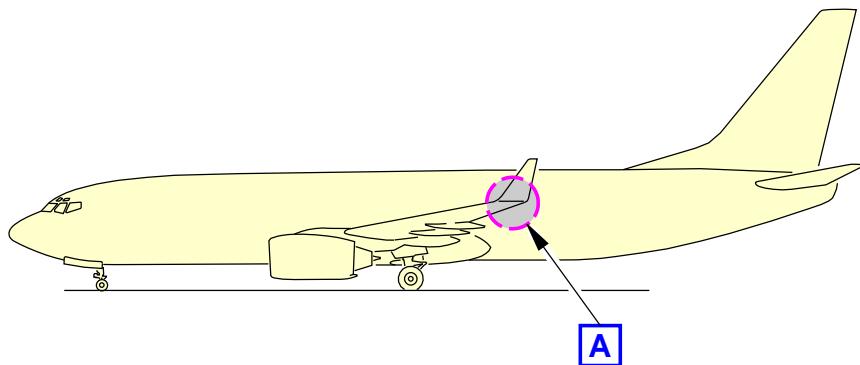
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EFFECTIVITY
AKS ALL; AIRPLANES WITH WINGLETS

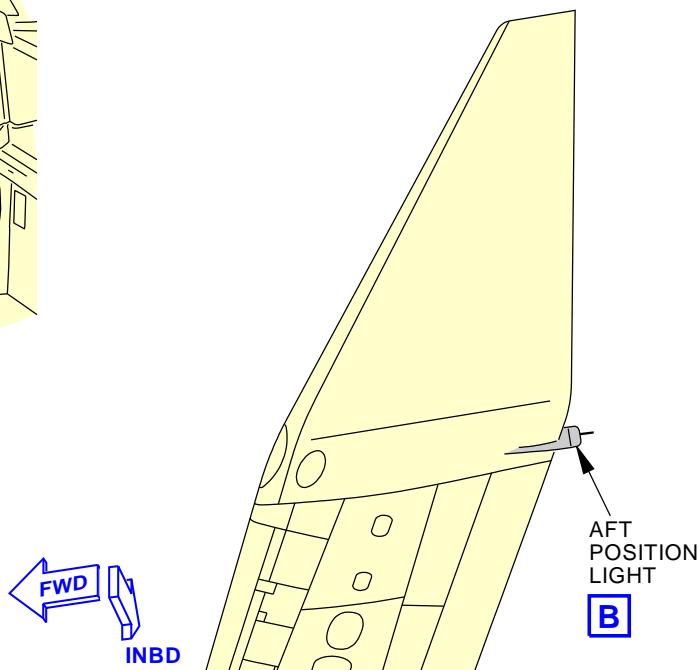
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FLIGHT COMPARTMENT



WING TIP
(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 2)

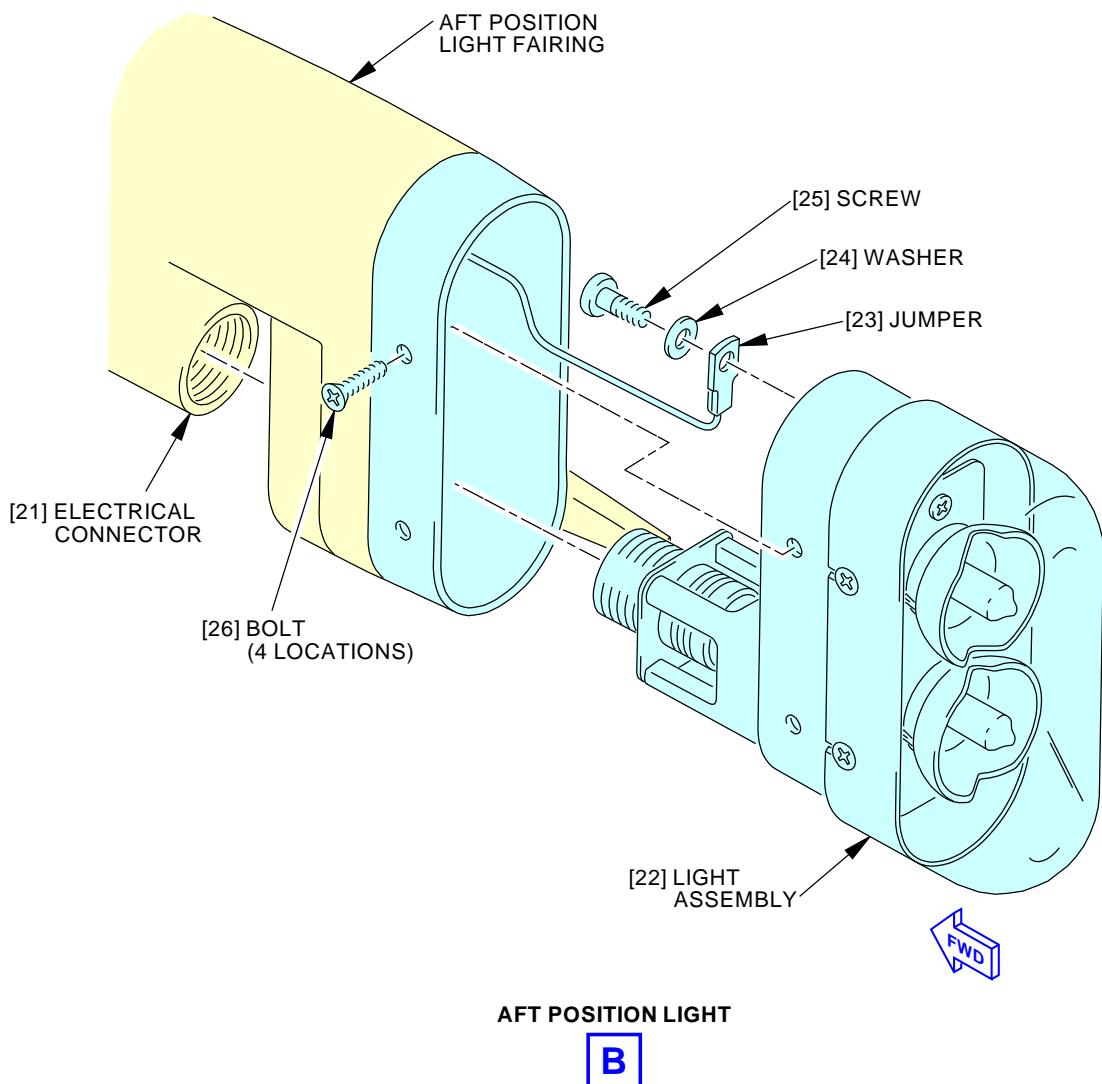
EFFECTIVITY
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Aft Position Light - Light Assembly Replacement
Figure 203/33-43-12-990-802 (Sheet 2 of 2)EFFECTIVITY
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WINGLET LEADING EDGE LENS - INSPECTION/CHECK

1. General

- A. This procedure has one task:
- (1) Do a visual inspection of the condition of the winglet lens.

TASK 33-43-20-200-801

2. Inspect the Winglet Leading Edge Lens

A. General

- (1) You will do an inspection of both winglet lenses in this task.
- (2) A man-lift and safety equipment will be required to gain access to the winglet lenses.

B. References

Reference	Title
57-21-22-000-801	Forward Position Light and Anti-Collision Light Panel (Single Forward Lens) Removal (P/B 201)
57-21-22-000-806	Forward Position Light and Anti-Collision Light Panel (Dual Forward Lens) Removal (P/B 201)

C. Tools/Equipment

Reference	Description
STD-146	Calipers - Vernier, 0 to 6 in (0 to 152 mm), Readable to 1/1000 in (.025 mm)

D. Consumable Materials

Reference	Description	Specification
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	BMS15-5 Class A
G50141	Towel - Paper, High Quality, Single Ply, White or Natural Colors	

E. Location Zones

Zone	Area
527	Left Winglet
627	Right Winglet

F. Procedure

SUBTASK 33-43-20-860-001

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
A	12	C00113	EXTERIOR LIGHTING POSITION RIGHT
A	13	C00114	EXTERIOR LIGHTING POSITION LEFT

AKS ALL; AIRPLANES WITH SINGLE FORWARD LENS CONFIGURATION

SUBTASK 33-43-20-220-001

- (2) Do a visual inspection of the lens:

- (a) If any defects are noted in any of the visual inspection characteristics listed below, replace the lens (Forward Position Light and Anti-Collision Light Panel (Single Forward Lens) Removal, TASK 57-21-22-000-801).

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AKS ALL; AIRPLANES WITH SINGLE FORWARD LENS CONFIGURATION (Continued)

- 1) Crazing: The lens should not exhibit a network of fine cracks on or beneath the surface of the lens.
 - 2) Cracking: There should be no cracks in the lens.
 - 3) Blistering or Bubbling: The lens should not contain any air pockets, lumps, or voids.
NOTE: Small bubbles in the lens or coating that do not appear in large quantities or concentrations are allowable.
 - 4) Discoloration: The lens should not exhibit any signs of yellowing or darkening.
 - 5) Physical Deformation: The lens should not exhibit any signs of distortion or irregularities in the contour.
- (b) The following is an allowable condition for a lens:
- 1) Hazing, that is, the lens is not transparent and clear in appearance and may appear to be cloudy, translucent, or opaque.
 - 2) To rework a hazed lens, do the following steps:
 - a) Apply small amounts of polishing compound - Nuvite II, Grade S - along the leading edge of the lens.
<1> Only apply the polishing compound, half of the length of the lens at a time.
 - b) Polish with a high quality paper towel, G50141, using light pressure in a linear motion along the leading edge.
NOTE: There will be a transition line about 0.25 in. (0.64 cm) wide between the hazed surface and the undamaged clear surface. Do not polish this line out as it has a residual hard coat surface material that cannot be polished out.
 - c) After polishing with a high quality paper towel, G50141, repeat the polishing process using a clean cotton wiper, G00034, to achieve a final luster.
- (c) If the other lens has not been inspected, repeat this task for the other lens.
- (d) If both lenses have been inspected, this task is complete.

AKS ALL; AIRPLANES WITH DUAL FORWARD LENS CONFIGURATION

SUBTASK 33-43-20-220-002

- (3) Do a visual inspection of the lens:
- (a) If any defects are noted in any of the visual inspection characteristics listed below, replace the lens (Forward Position Light and Anti-Collision Light Panel (Dual Forward Lens) Removal, TASK 57-21-22-000-806).
- 1) Cracking: There should be no cracks in the lens.
 - 2) Disbonding: There should be no disbonding between the lens and lens retainer.
 - 3) Chipping: There should be no chipping in the lens area from 0 in. (0 cm) - 4 in. (10 cm) outboard of the inboard trim line.
NOTE: Use vernier calipers, STD-146, to measure and determine the length of chipping.
- (b) The following is an allowable condition for a lens (Figure 601):

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AKS ALL; AIRPLANES WITH DUAL FORWARD LENS CONFIGURATION (Continued)

- 1) Chipping is allowed in a limited area, 4 in. (10 cm) outboard of the inboard retainer trim line edge.

NOTE: Use vernier calipers, STD-146, to measure and determine the length of chipping.

- 2) For the area more than 4 in. (10 cm) outboard, the chip length cannot exceed 0.25 in. (0.64 cm) from the retainer inner trim line (measured normal to the trim line edge).

NOTE: Use vernier calipers, STD-146, to measure and determine the length of chipping.

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G. Put the Airplane Back to Its Usual Condition

SUBTASK 33-43-20-860-002

- (1) 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

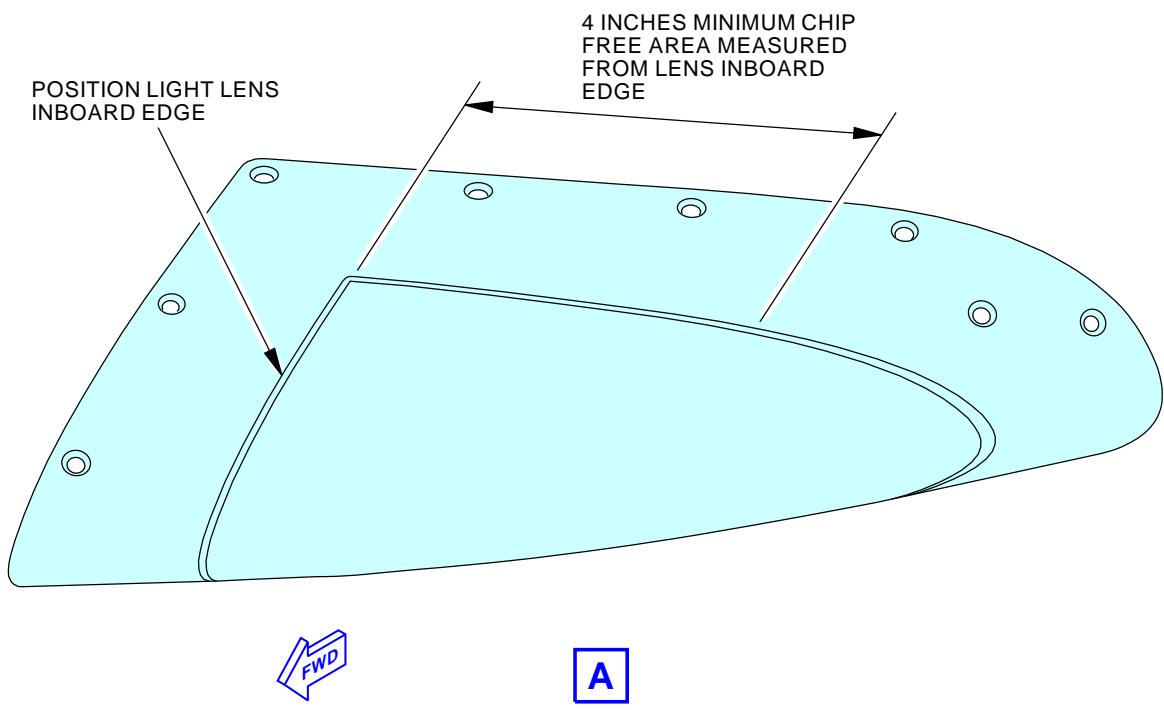
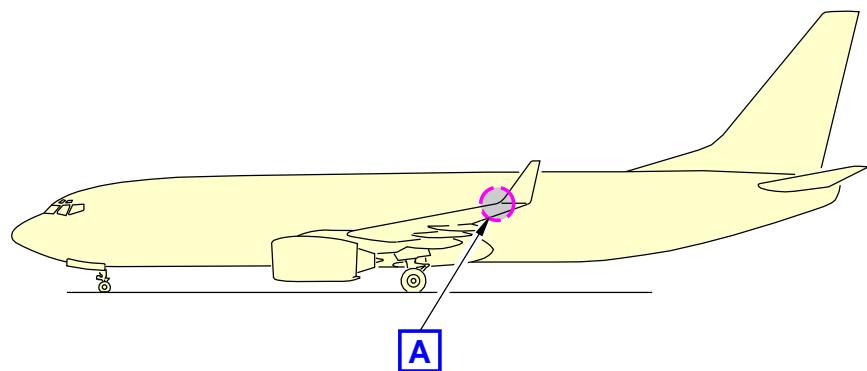
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EFFECTIVITY
AKS ALL; AIRPLANES WITH WINGLETS

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Forward Position Light Lens Allowable Chip Area
Figure 601/33-43-20-990-801

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AKS ALL; AIRPLANES WITH DUAL FORWARD LENS
CONFIGURATION

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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 ————



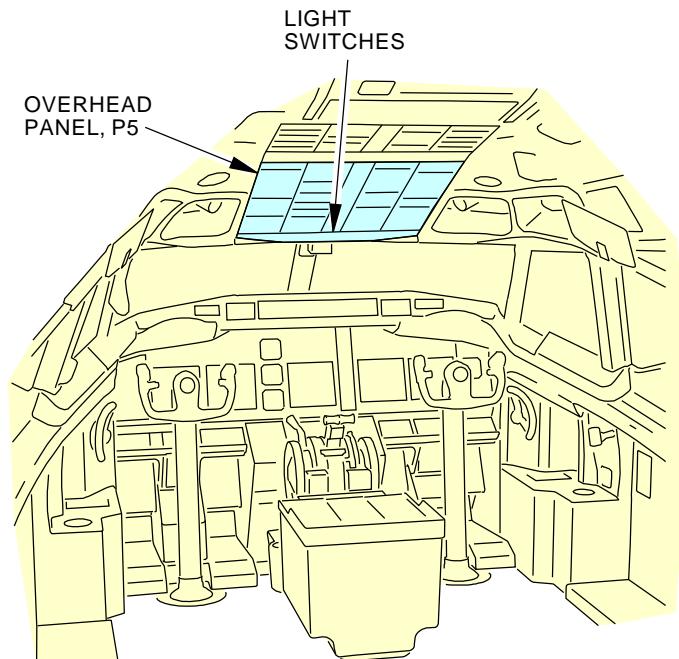
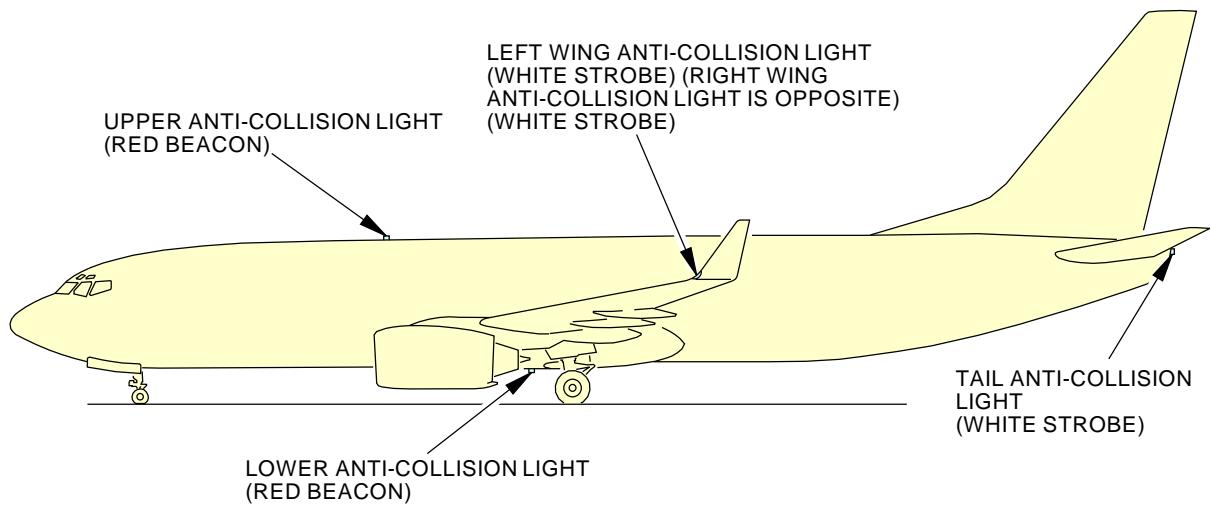
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FLIGHT COMPARTMENT

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Anti-Collision Lights
Figure 201/33-44-00-990-802

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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

Zone	Area
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

Row	Col	Number	Name
B	12	C00111	EXTERIOR LIGHTING ANTI COLLISION RED
B	13	C00115	EXT LIGHTING ANTI COLLISION WHITE

———— END OF TASK ————

EFFECTIVITY
AKS ALL

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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

WARNING: DO NOT LET THE LIGHTS FLASH DIRECTLY IN YOUR EYES. THE INTENSITY OF THE LIGHT CAN TEMPORARILY CAUSE INJURY 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.



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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 INJURY 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.

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- 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 (TASK 33-44-13-960-805).

AKS ALL

- 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.

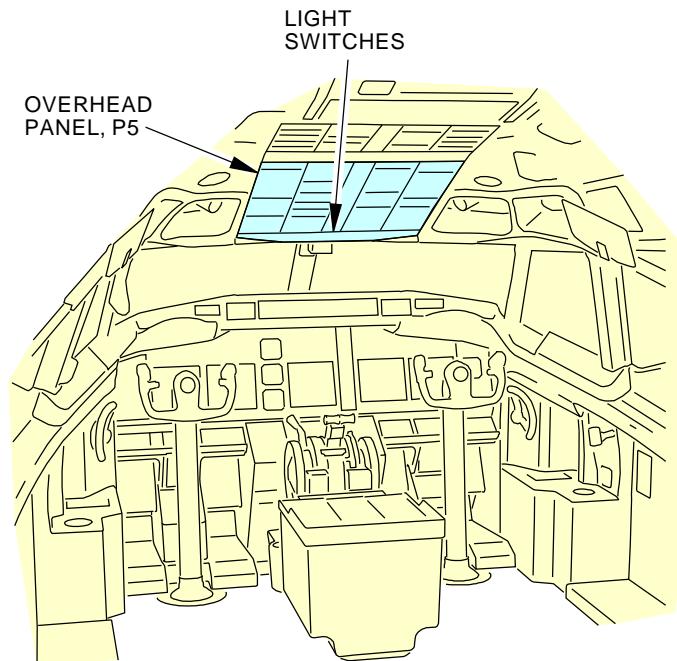
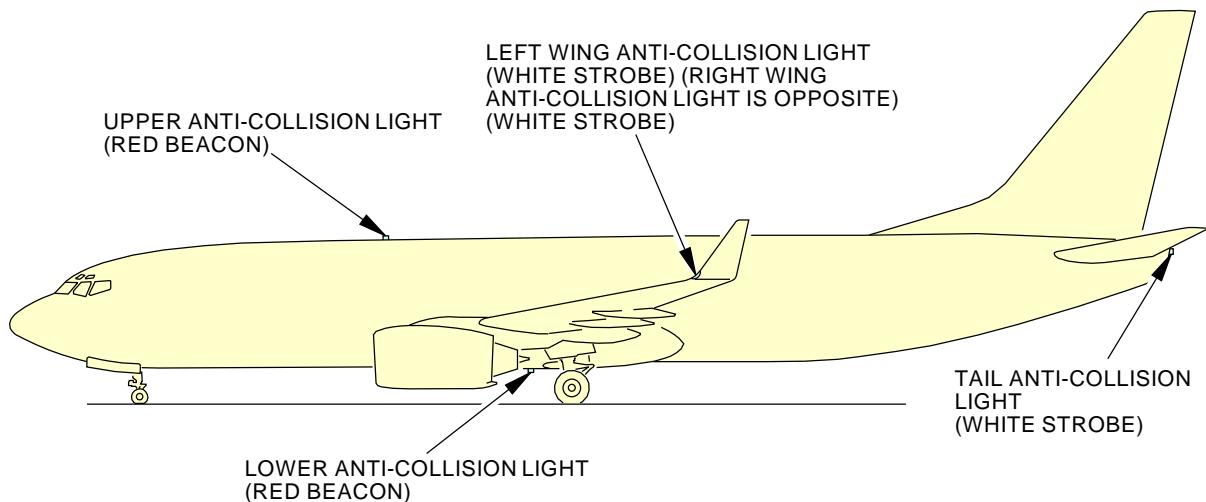
———— END OF TASK ————

EFFECTIVITY	
AKS ALL	

33-44-00



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FLIGHT COMPARTMENT

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Anti-Collision Lights - Test
Figure 501/33-44-00-990-801

EFFECTIVITY
AKS ALL

33-44-00



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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)
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove 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)
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 Meters - 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 #: C15292 (MODEL T477W) Supplier: 01014 Part #: M1 Supplier: 3AD17 Opt Part #: M1B Supplier: 3AD17

D. Consumable Materials

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



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E. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
3	Lamp assembly	Not Specified	
5	Light assembly	33-44-01-01A-080	AKS ALL

F. Location Zones

Zone	Area
230	Subzone - Passenger Compartment - Body Station 360.00 to 663.75

G. Procedure

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: 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] (6 locations).
- 2) Turn the light assembly [5] clockwise and pull it down from the adapter plate [1].
- 3) Carefully loosen the fastener [2] on top of the lamp assembly [3].
- 4) Examine the gasket [4].
 - a) If the gasket [4] is worn, replace it.
- 5) Replace the lamp assembly [3].
- 6) Tighten the fastener [2].
- 7) If the lens [41] is dirty, clean it with a clean, soft, dry cotton wiper, G00034.
- 8) Put the light assembly [5] in the adapter plate [1] and turn it counterclockwise.
- 9) Install the bolts [6] (6 locations).
- 10) 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: Main Ceiling Panel - Installation, TASK 25-21-45-400-803-001.

EFFECTIVITY
AKS ALL

33-44-01



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

- 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:
- For access to the lens [41], go out of the airplane, on top of the fuselage.
 - Do these steps to remove the lens [41]:
 - Loosen the screws [42] (6 locations) and lift off the lens [41].
 - 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.
 - Loosen the fastener [2] on top of the lamp assembly [3].
 - Replace the lamp assembly [3].
 - Tighten the fastener [2].
 - If the lens [41] is dirty, clean it with a clean, soft, dry cotton wiper, G00034.
 - Put on the lens [41] and tighten the screws [42].

SUBTASK 33-44-01-860-002

- (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>
B	12	C00111	EXTERIOR LIGHTING ANTI COLLISION RED

SUBTASK 33-44-01-860-003

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

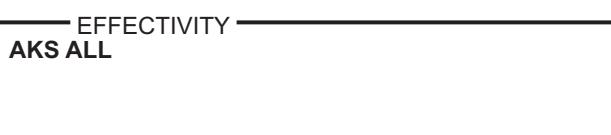
SUBTASK 33-44-01-710-001

- (6) Do a test of the new lamp assembly [3].
- At the overhead panel, P5, set the switch for the upper anti-collision light to the on mode.
 - Make sure the light flashes (TASK 33-44-00-710-801).
 - Set the switch to the off mode.
 - Make sure the light goes off.

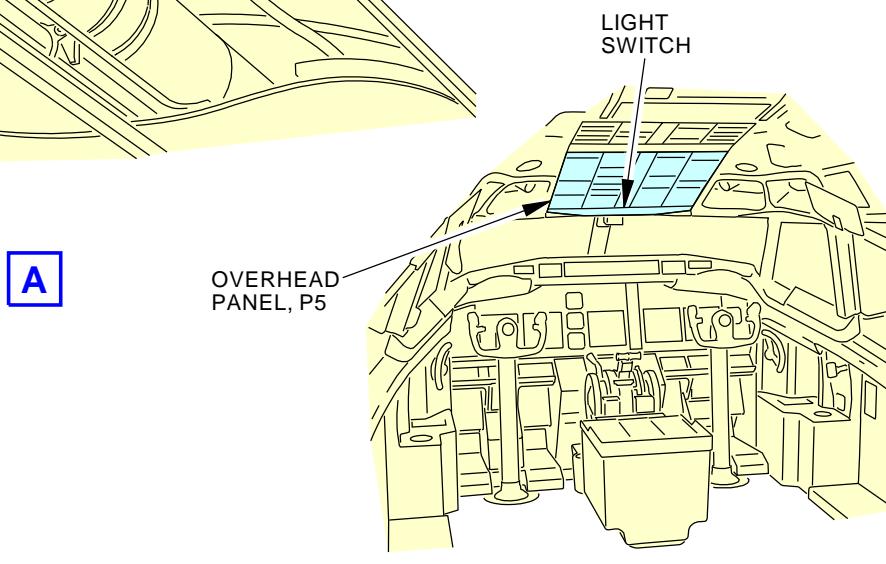
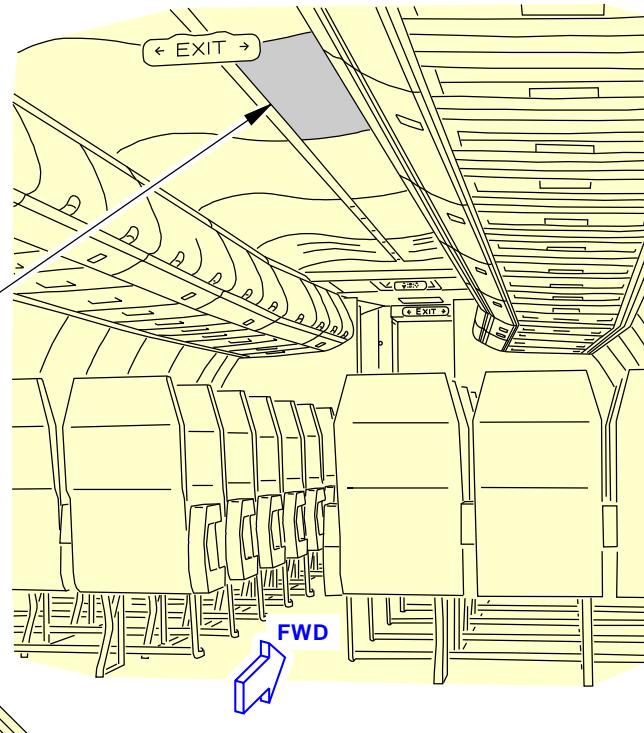
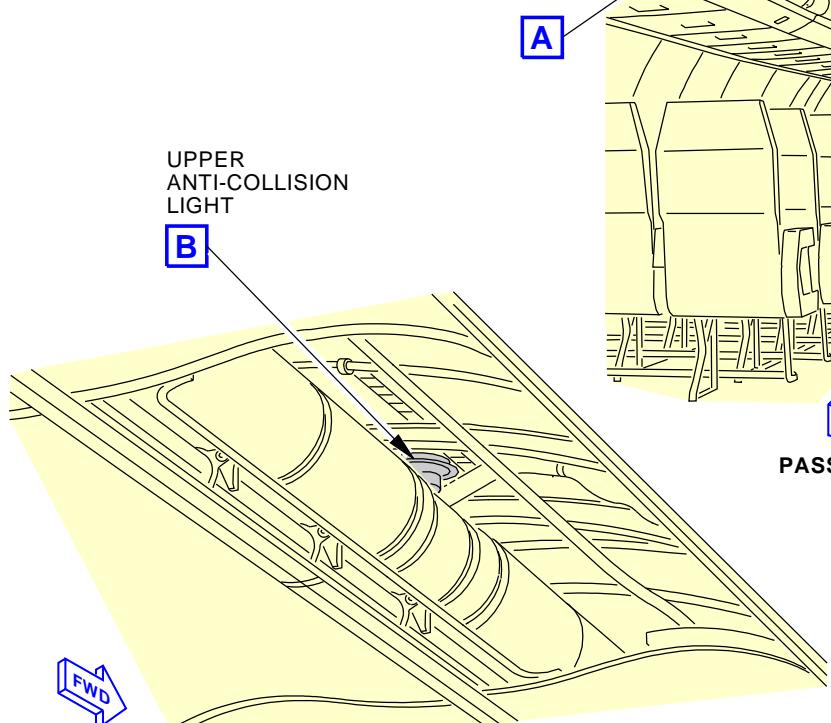
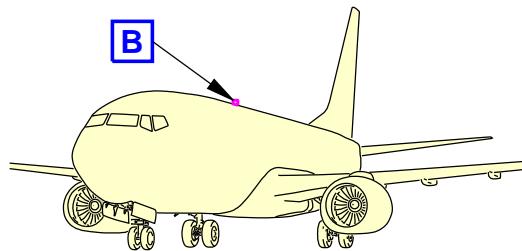
SUBTASK 33-44-01-860-004

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

———— END OF TASK ————



33-44-01


FLIGHT COMPARTMENT

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Upper Anti-Collision Light - Lamp Assembly Replacement
Figure 201/33-44-01-990-801 (Sheet 1 of 3)

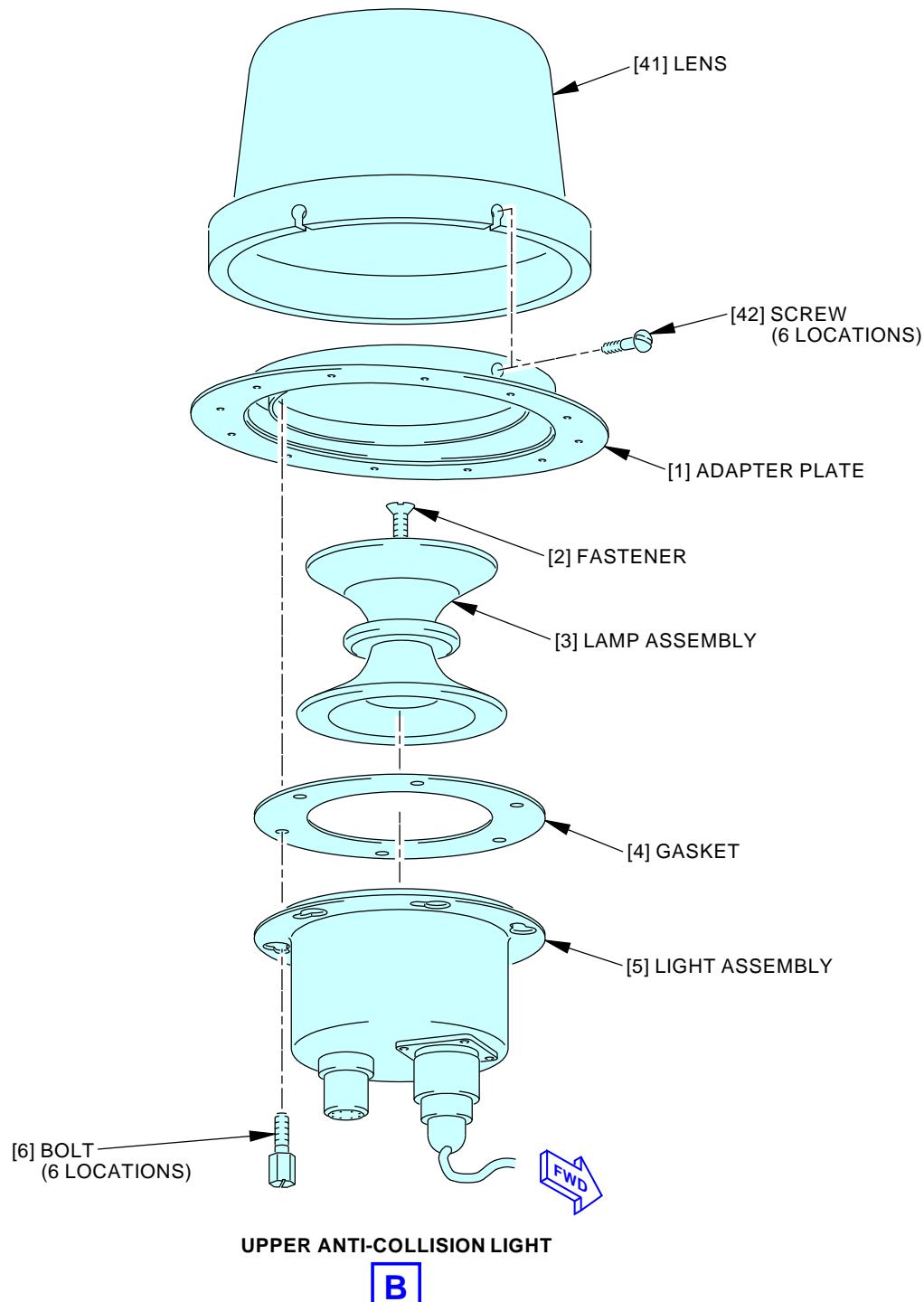
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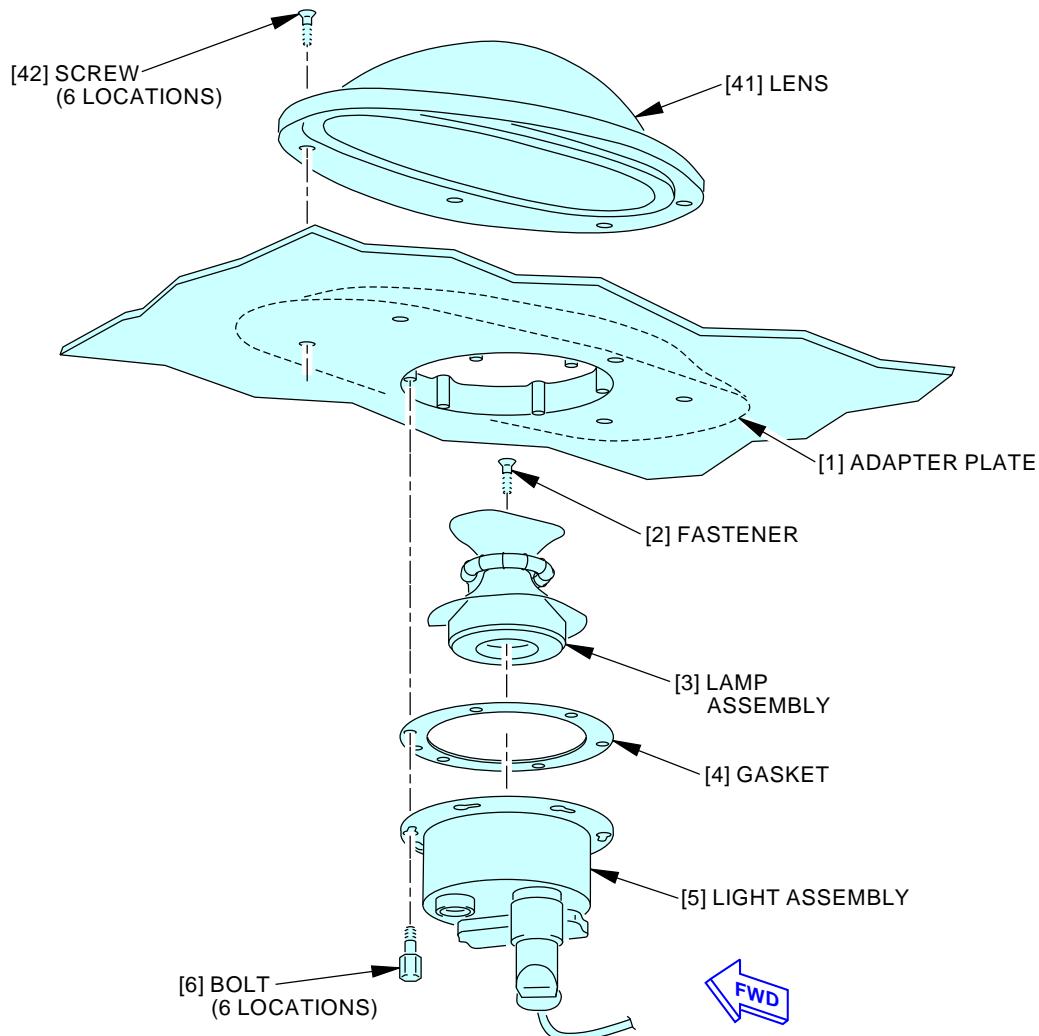
Upper Anti-Collision Light - Lamp Assembly Replacement
Figure 201/33-44-01-990-801 (Sheet 2 of 3)

EFFECTIVITY	AKS ALL
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UPPER ANTI-COLLISION LIGHT

B

1982237 S0000383675_V3

Upper Anti-Collision Light - Lamp Assembly Replacement
Figure 201/33-44-01-990-801 (Sheet 3 of 3)

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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)
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove 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)
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 Meters - 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 #: C15292 (MODEL T477W) Supplier: 01014 Part #: M1 Supplier: 3AD17 Opt Part #: M1B Supplier: 3AD17

C. Consumable Materials

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

D. Location Zones

Zone	Area
230	Subzone - Passenger Compartment - Body Station 360.00 to 663.75

E. Procedure

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

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: Main Ceiling Panel - Removal, TASK 25-21-45-000-803-001.

EFFECTIVITY
AKS ALL

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- (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.

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] (6 locations).
- (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] (6 locations).
- (h) Connect the electrical connector [21].
- (i) 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).

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: 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 33-44-01-860-007

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

SUBTASK 33-44-01-710-002

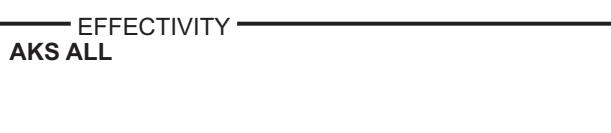
- (7) Do a test of the new light assembly [5]:

- (a) At the overhead panel, P5, 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.

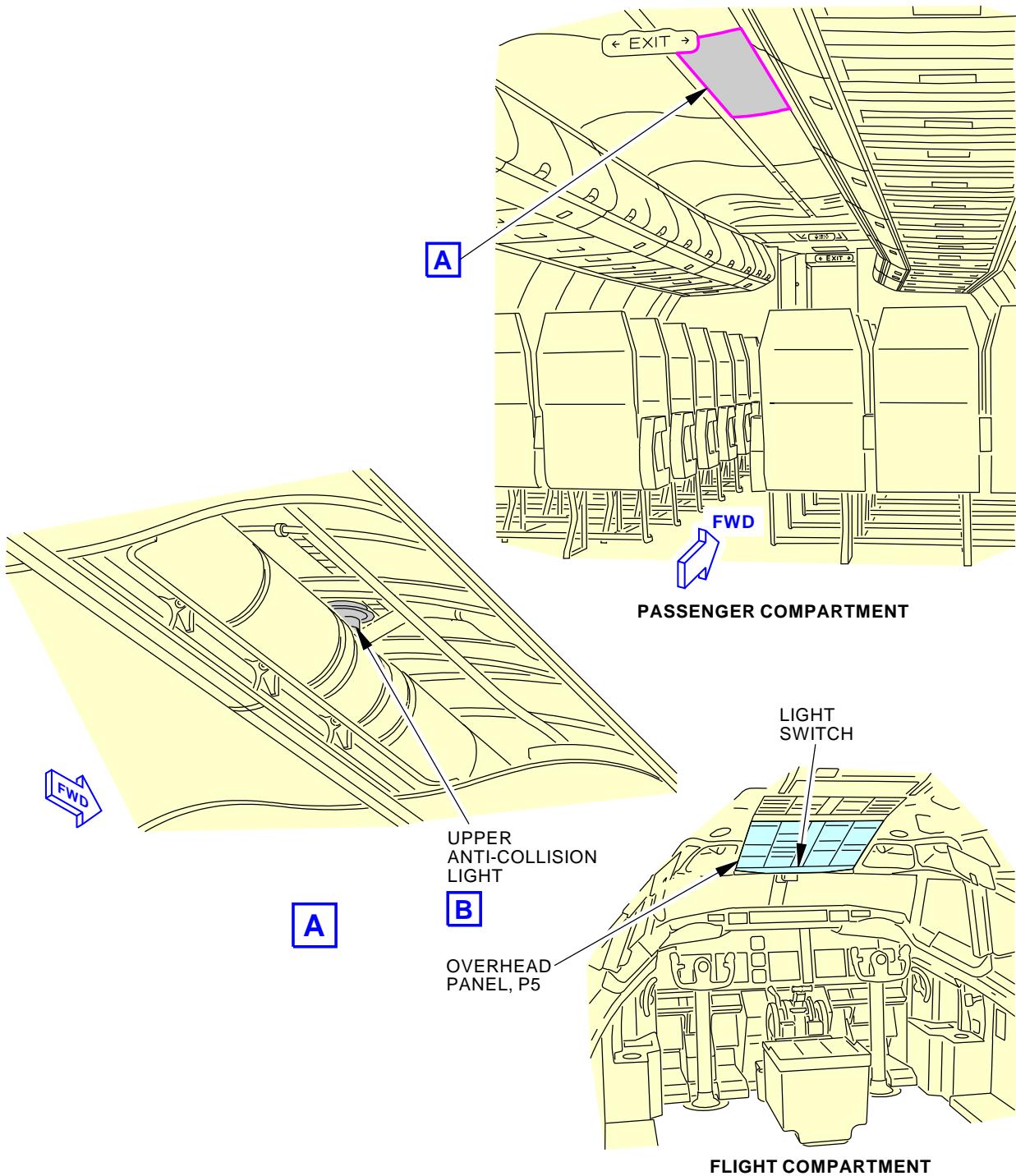
SUBTASK 33-44-01-860-008

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

———— END OF TASK ————



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)

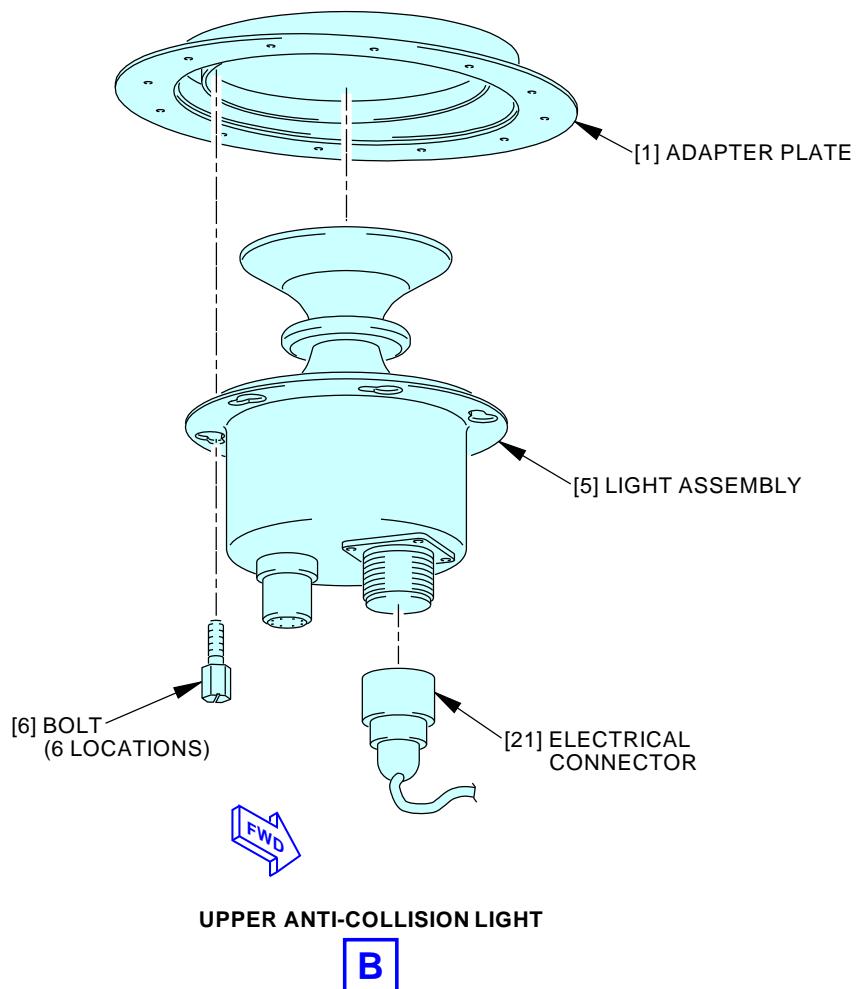
 EFFECTIVITY
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Upper Anti-Collision Light - Light Assembly Replacement
Figure 202/33-44-01-990-802 (Sheet 2 of 3)

EFFECTIVITY
AKS ALL

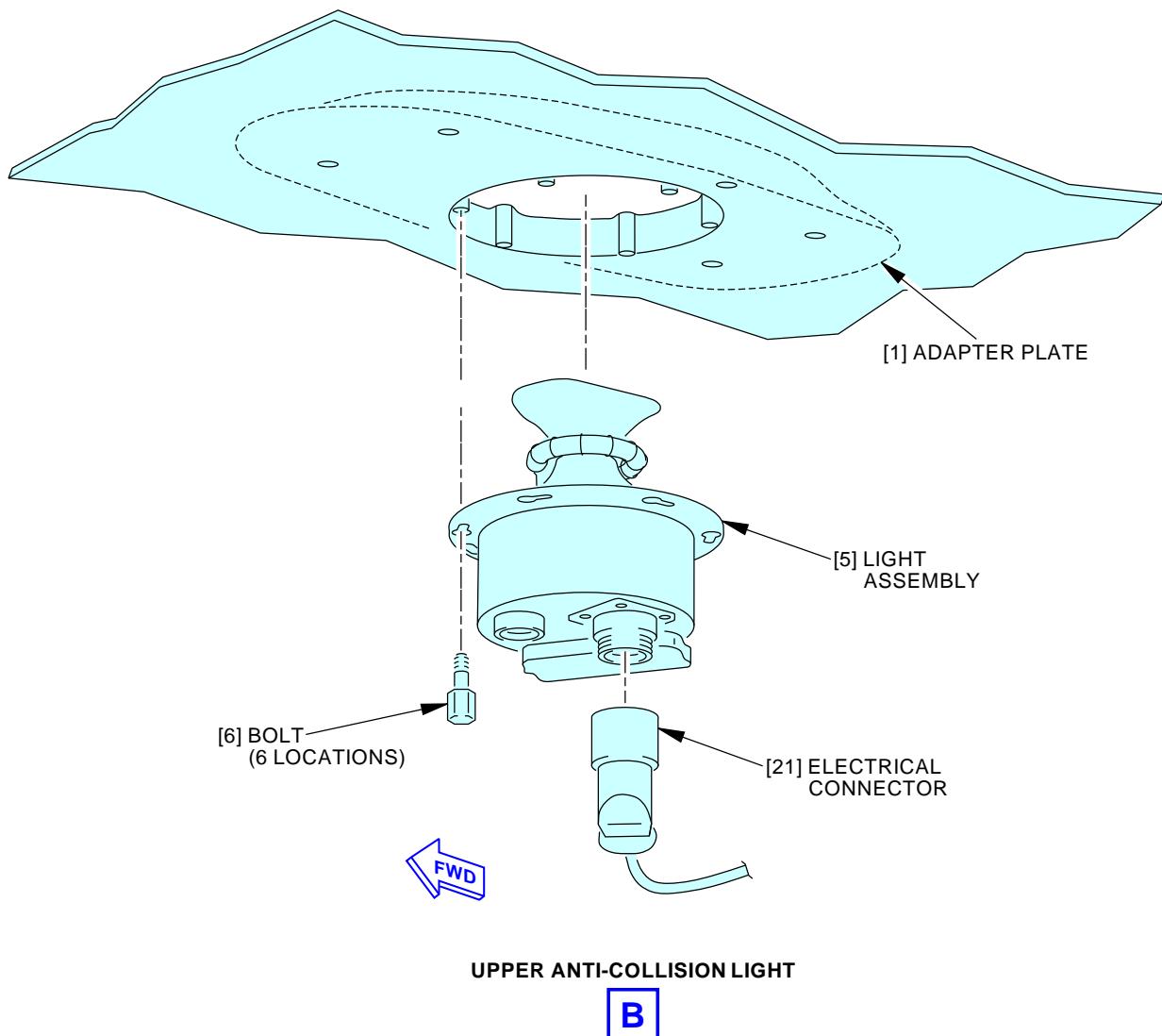
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Upper Anti-Collision Light - Light Assembly Replacement
Figure 202/33-44-01-990-802 (Sheet 3 of 3)

EFFECTIVITY	AKS ALL
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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	Apply Alodine 600, 1200 or 1200S Solution (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
C00064	Coating - Aluminum Chemical Conversion	BAC5719 Type II Class A (MIL-DTL-5541 Class 1A)
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	BMS15-5 Class A
G50365	Agent - Peelable Parting (AC Products - AC962-73C) Production discontinued, use stock until depleted.	
G50367	Agent - Peelable Parting (Aztec Chemical AZ 634-2)	MIL-PRF-6799, BAC5000
G50368	Agent - Peelable Parting (Rexco Chemical Company - Partail Coverall Film)	

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
41	Lens	33-44-01-01A-114	AKS ALL

D. Location Zones

Zone	Area
230	Subzone - Passenger Compartment - Body Station 360.00 to 663.75

E. Procedure

SUBTASK 33-44-01-010-004

- (1) For access to the lens [41], go out of the airplane, on top of the fuselage.

SUBTASK 33-44-01-960-003

- (2) Do these steps to replace the lens [41]:
 - (a) Loosen the screws [42] (6 locations) 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:

NOTE: Make sure to replace all components, including lens, adapter plate, lamp assembly, and power supply.

- 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
AKS ALL

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- (d) If you change the non-aerodynamic light assembly to the aerodynamic light assembly, do the following steps:

NOTE: Make sure to replace all components, including lens, adapter plate, lamp assembly, and power supply.

- 1) Apply AC962-73C peelable parting agent, G50365, AZ 634-2 peelable parting agent, G50367, or Rexco Partail 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.

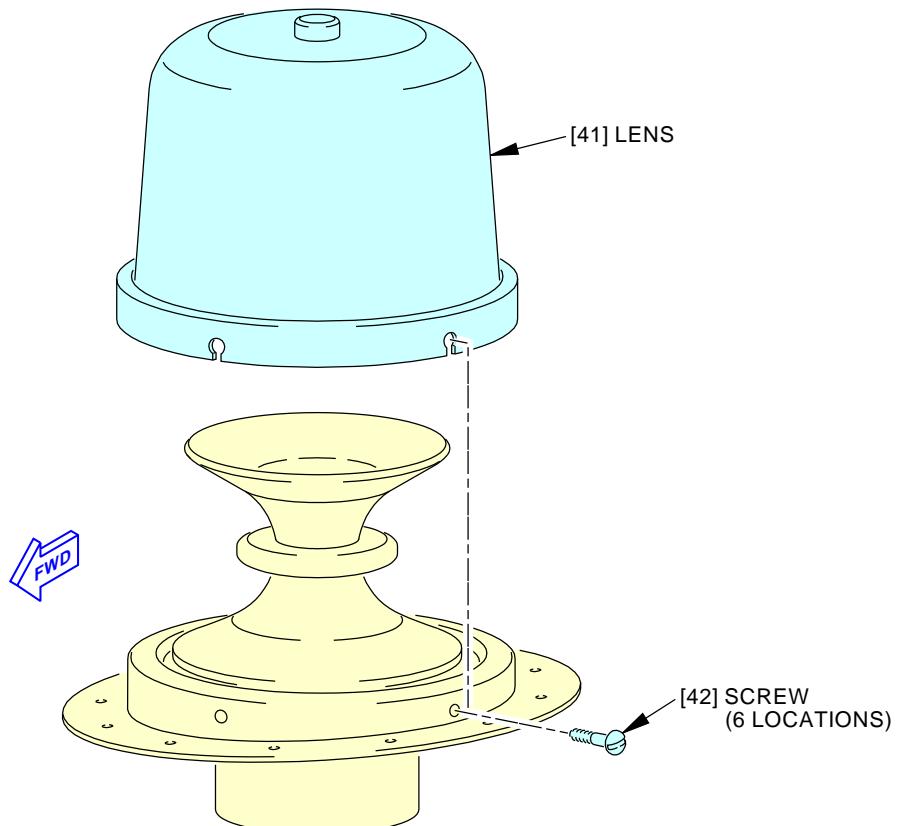
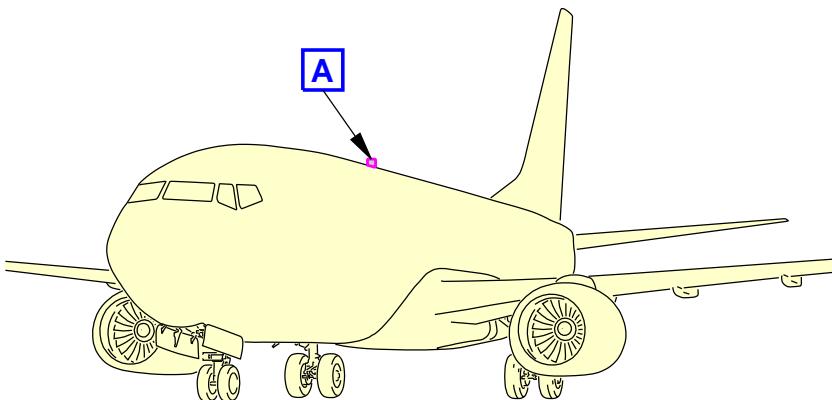
- (e) If the new lens [41] is dirty, clean it with a clean, soft, dry cotton wiper, G00034.
- (f) Put on the new lens [41] and tighten the screws [42].

———— END OF TASK ————

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UPPER ANTI-COLLISION LIGHT LENS

A

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Upper Anti-Collision Light - Lens Replacement
Figure 203/33-44-01-990-803 (Sheet 1 of 2)

EFFECTIVITY
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33-44-01

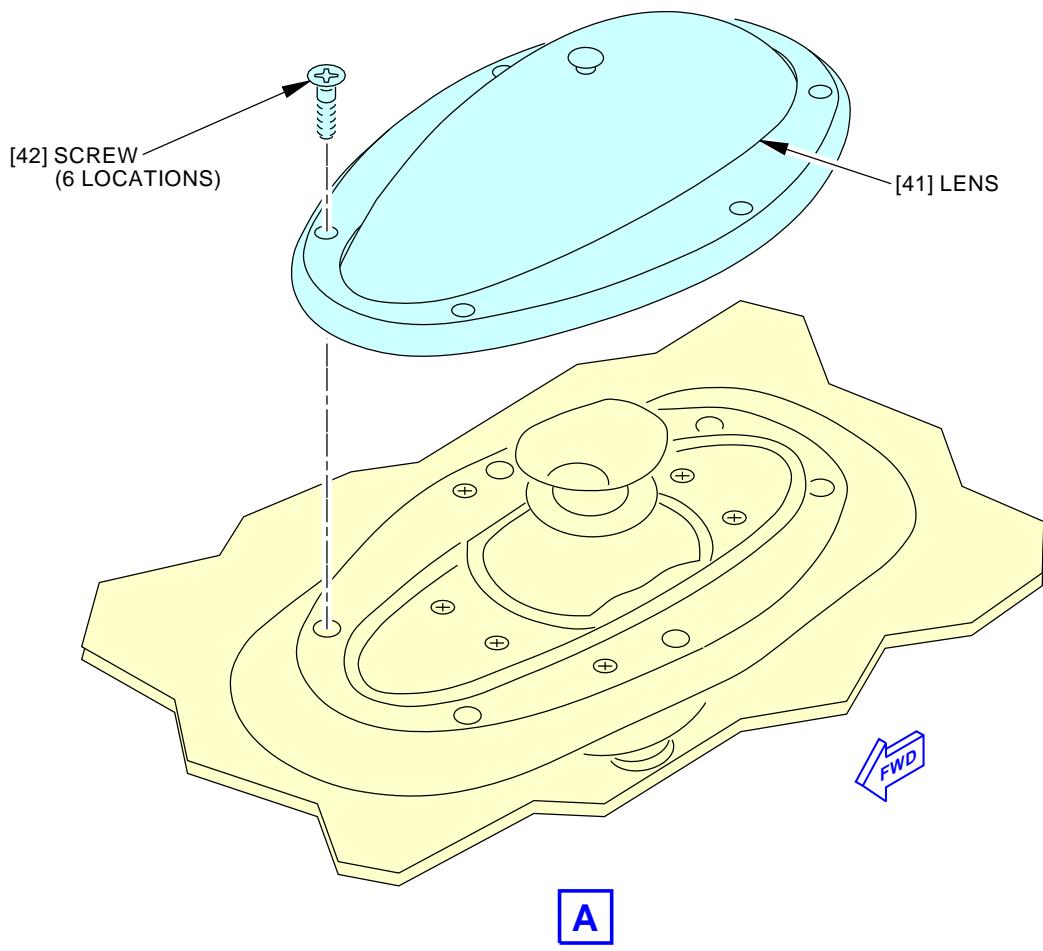
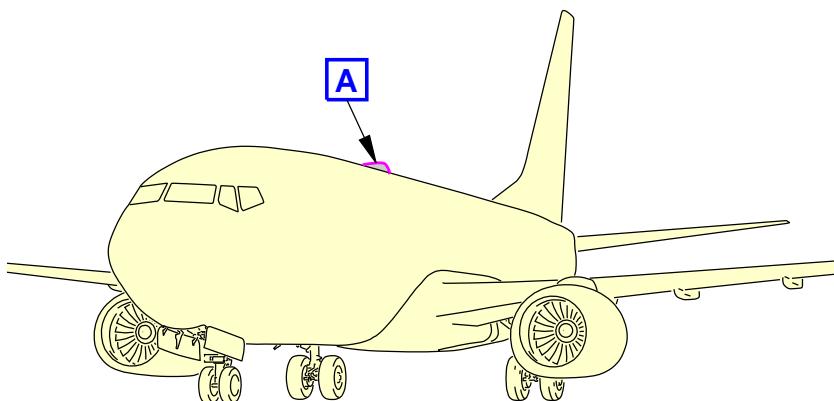
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Upper Anti-Collision Light - Lens Replacement
Figure 203/33-44-01-990-803 (Sheet 2 of 2)

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TASK 33-44-01-960-804

5. Upper Anti-Collision Light - Power Supply 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)
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
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 Meters - 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 #: C15292 (MODEL T477W) Supplier: 01014 Part #: M1 Supplier: 3AD17 Opt Part #: M1B Supplier: 3AD17

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
62	Power supply	33-44-01-01A-505	AKS ALL

D. Location Zones

Zone	Area
230	Subzone - Passenger Compartment - Body Station 360.00 to 663.75

E. Procedure

SUBTASK 33-44-01-860-009

- (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 33-44-01-010-003

- (2) Do this task: 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.



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SUBTASK 33-44-01-960-004

WARNING: DO NOT TOUCH THE POWER SUPPLY FOR 3 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] (2 locations).
- (b) Loosen the fasteners [61] on the power supply (4 locations).
- (c) Replace the power supply [62].
- (d) Tighten the fasteners [61] (4 locations).
- (e) Connect the electrical connectors [63] (2 locations).
- (f) Measure the electrical bonding resistance, using an intrinsically safe approved bonding meter, COM-1550, between the power supply [62] and the fuselage (SWPM 20-20-00).
 - 1) Make sure the bonding resistance is 0.0025 ohm (2.5 milliohms) or less.

SUBTASK 33-44-01-410-003

- (4) Do this task: Main Ceiling Panel - Installation, TASK 25-21-45-400-803-001.

SUBTASK 33-44-01-860-010

- (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 33-44-01-860-011

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

SUBTASK 33-44-01-710-003

- (7) Do a test of the new power supply [62].

- (a) At the overhead panel, P5, 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.

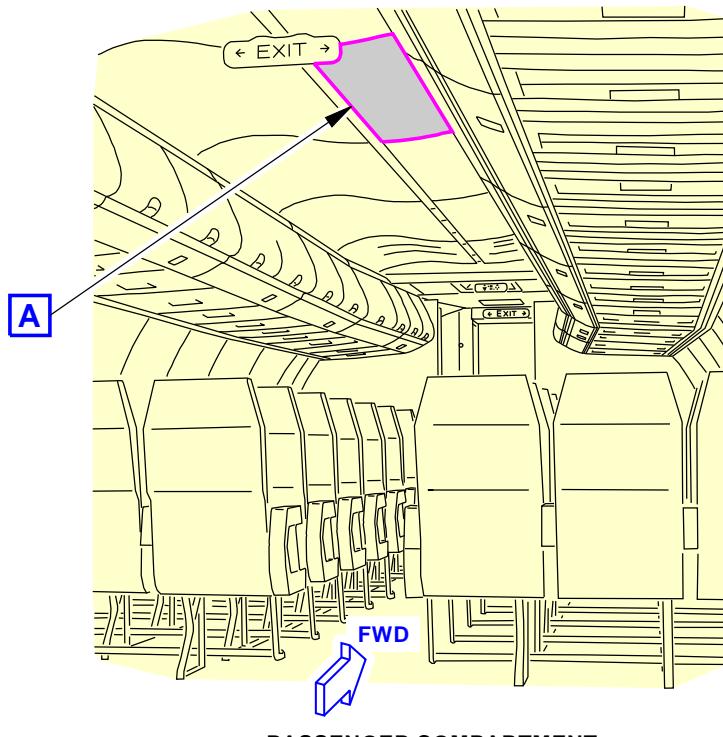
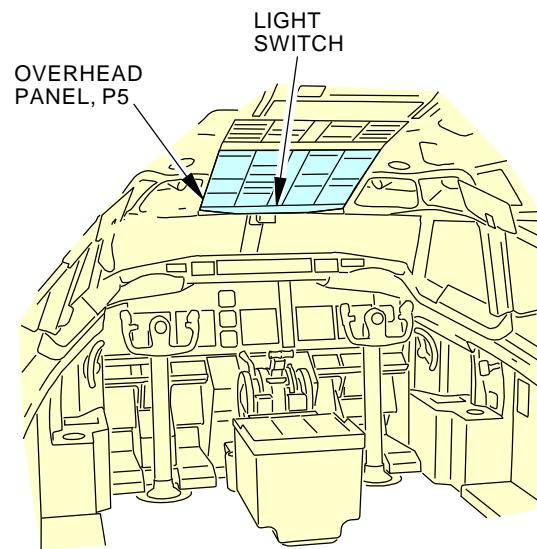
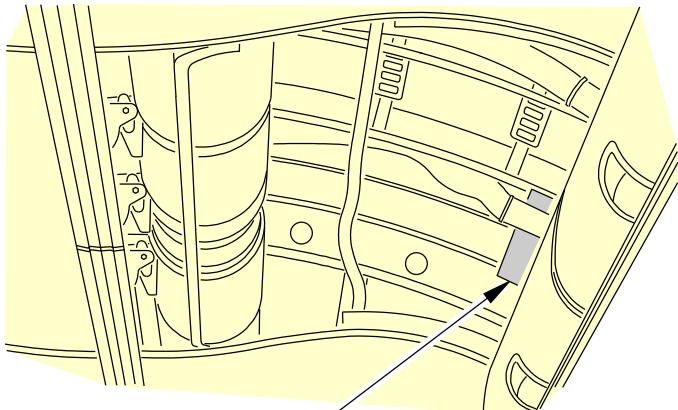
SUBTASK 33-44-01-860-012

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

———— END OF TASK ————



33-44-01


PASSENGER COMPARTMENT

FLIGHT COMPARTMENT

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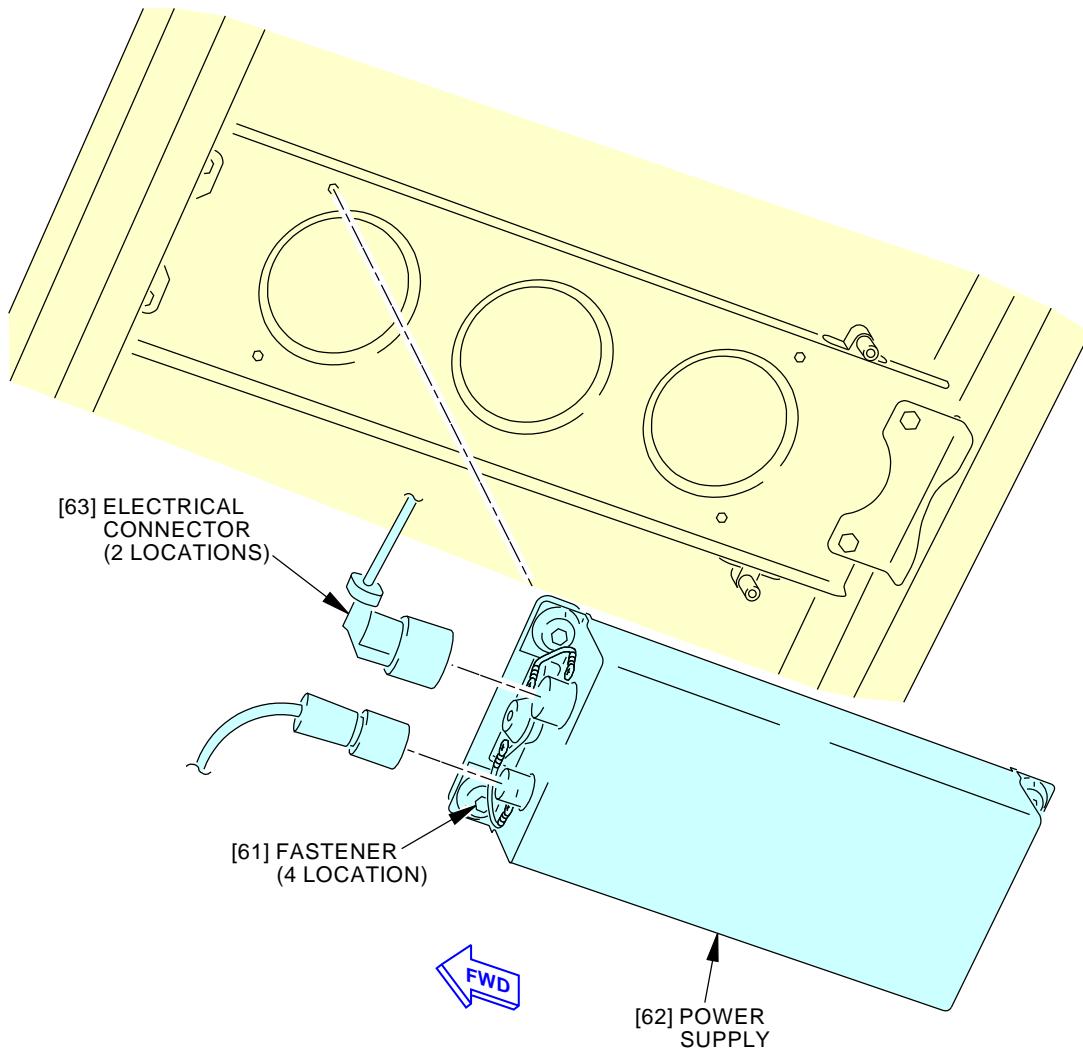
Upper Anti-Collision Light - Power Supply Replacement
Figure 204/33-44-01-990-804 (Sheet 1 of 2)

 EFFECTIVITY
 AKS ALL

33-44-01



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AIRCRAFT MAINTENANCE MANUAL



UPPER ANTI-COLLISION LIGHT POWER SUPPLY

B

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Upper Anti-Collision Light - Power Supply Replacement
Figure 204/33-44-01-990-804 (Sheet 2 of 2)

EFFECTIVITY
AKS ALL

33-44-01

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AIRCRAFT MAINTENANCE MANUAL

AKS ALL; AIRPLANES WITHOUT AERODYNAMIC SHAPED LIGHT

TASK 33-44-01-960-805

6. Upper Anti-Collision Light - Adapter Plate Replacement

(Figure 202)(Figure 203)(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)
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.

Reference	Description
COM-1550	Bonding Meters - 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 #: C15292 (MODEL T477W) Supplier: 01014 Part #: M1 Supplier: 3AD17 Opt Part #: M1B Supplier: 3AD17
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 20-30-88/201) - Series 88	
C00862	Coating - Chemical Conversion - Alodine 600	

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AKS ALL; AIRPLANES WITHOUT AERODYNAMIC SHAPED LIGHT (Continued)

(Continued)

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

E. Location Zones

Zone	Area
230	Subzone - Passenger Compartment - Body Station 360.00 to 663.75

F. Prepare for the Removal

SUBTASK 33-44-01-860-013

- (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

AKS 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: 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.

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G. Procedure

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] (6 locations).
 - (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] (6 locations) 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 (12 locations) (Figure 205).
 - (a) Remove the adapter plate [1].

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AKS ALL; AIRPLANES WITHOUT AERODYNAMIC SHAPED LIGHT (Continued)

SUBTASK 33-44-01-120-001

WARNING: DO NOT GET SOLVENTS IN YOUR MOUTH, YOUR EYES, OR ON YOUR SKIN. DO NOT BREATHE THE FUMES FROM SOLVENTS. SOLVENTS ARE DANGEROUS MATERIALS. SOLVENTS CAN BE FLAMMABLE. OBEY THE MATERIAL SAFETY DATA SHEETS (MSDS) FOR SOLVENTS. OBEY LOCAL REGULATIONS FOR THE CORRECT PROCEDURES TO USE OR DISCARD SOLVENTS. SOLVENTS CAN CAUSE INJURIES TO PERSONNEL AND DAMAGE TO EQUIPMENT.

- (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 Alodine 600 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.

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].

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AKS ALL; AIRPLANES WITHOUT AERODYNAMIC SHAPED LIGHT (Continued)

- (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.

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 the aircraft skin (SWPM 20-20-00).
 - (a) Make sure the bonding resistance is 0.0005 ohm (0.5 milliohm) or less.

SUBTASK 33-44-01-420-002

- (11) 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 33-44-01-420-003

- (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 ± 1 in-lb (1 ± 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 33-44-01-860-014

- (13) If necessary, supply electrical power (TASK 24-22-00-860-811).

SUBTASK 33-44-01-710-004

- (14) 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 33-44-01-420-004

- (1) Do these steps to install the items that were removed for access to the adapter plate [1]:

AKS ALL

- (a) To install the ceiling panel only, do this task: Main Ceiling Panel - Installation, TASK 25-21-45-400-803-001.



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- (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.

AKS 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

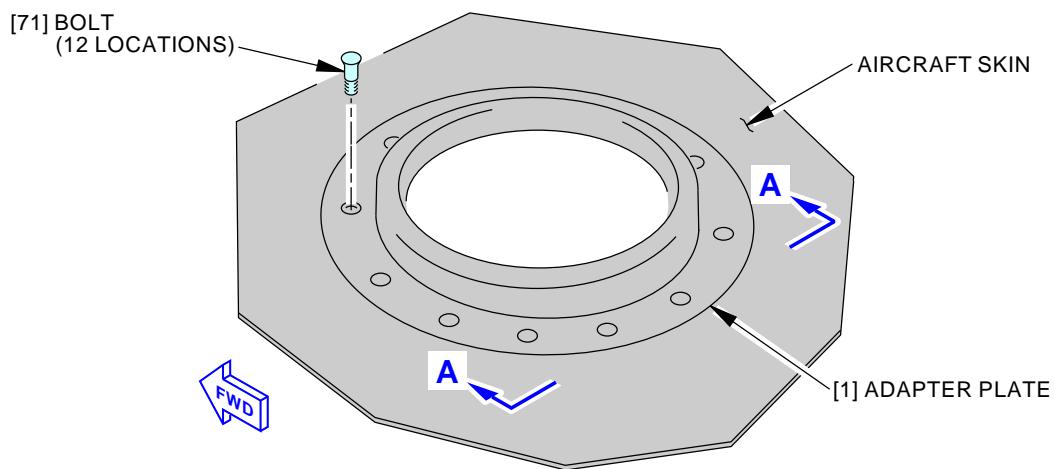
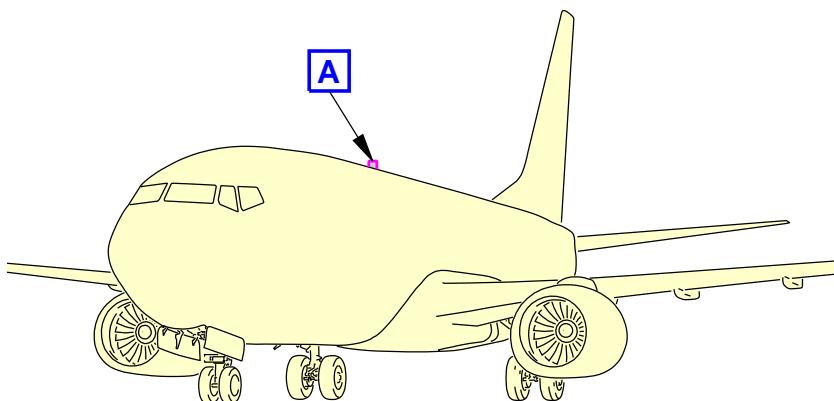
———— END OF TASK ————

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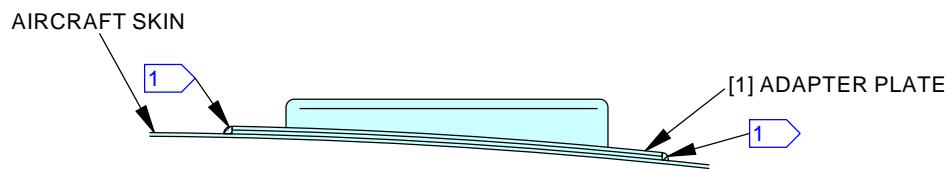


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AIRCRAFT MAINTENANCE MANUAL



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
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SHAPE LIGHT

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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

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)
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.

Reference	Description
COM-1550	Bonding Meters - 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 #: C15292 (MODEL T477W) Supplier: 01014 Part #: M1 Supplier: 3AD17 Opt Part #: M1B Supplier: 3AD17
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 20-30-88/201) - Series 88	
C00862	Coating - Chemical Conversion - Alodine 600	



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AKS ALL; AIRPLANES WITH AERODYNAMIC SHAPED LIGHT (Continued)

(Continued)

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

E. Location Zones

Zone	Area
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

Row	Col	Number	Name
B	12	C00111	EXTERIOR LIGHTING ANTI COLLISION RED

AKS ALL

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.

AKS ALL; 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 205).

SUBTASK 33-44-01-020-007

- (4) Remove the bolts [71] from the adapter plate [1], on top of the fuselage (12 locations) (Figure 205).
 - (a) Remove the adapter plate [1].

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AKS ALL; AIRPLANES WITH AERODYNAMIC SHAPED LIGHT (Continued)

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 Alodine 600 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.
- (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.

SUBTASK 33-44-01-390-004

- (9) Apply sealant, A00247, to the shank and threads of the twelve bolts [71].

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AKS ALL; AIRPLANES WITH AERODYNAMIC SHAPED LIGHT (Continued)

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.

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 ± 1 in-lb (1 ± 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 ± 1 in-lb (1 ± 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).

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]:

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AKS ALL

- (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.

AKS ALL; 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

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	12	C00111	EXTERIOR LIGHTING ANTI COLLISION RED

———— END OF TASK ————

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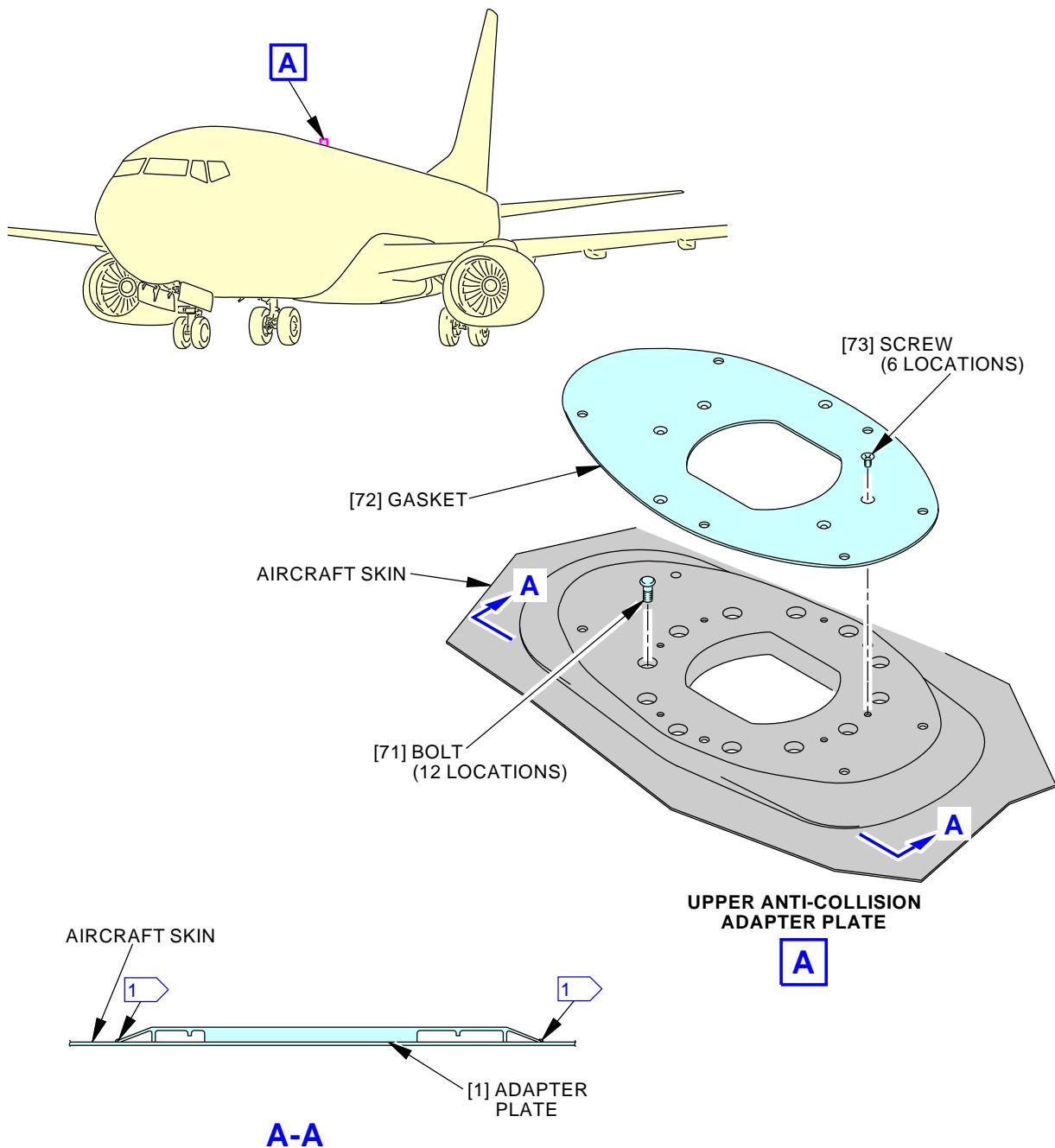
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FILLET SEAL

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Upper Anti-Collision Light - Adapter Plate Replacement
Figure 206/33-44-01-990-806

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SHAPE LIGHT

33-44-01



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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
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 33-44-11	Wiring Diagram Manual

C. Consumable Materials

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

D. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
4	Lamp assembly	33-44-02-01A-090	AKS ALL

E. Location Zones

Zone	Area
139	Keel Beam, (Part) Body Station 540.00 to Body Station 727.00

F. Procedure

SUBTASK 33-44-02-860-001

- (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 33-44-02-960-001

- (2) Do these steps to replace the lamp assembly (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.

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33-44-02



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- (c) Replace the lamp assembly [4].
- (d) Tighten the fastener [3].
- (e) Put on the lens [2] and tighten the screws [1].

AKS ALL; AIRPLANES WITH AERODYNAMIC SHAPED LIGHT

- 1) Tighten the screws [1] to a torque of 10 in-lb (1 N·m) (four locations).

AKS ALL

- 2) If the lens 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 33-44-02-860-003

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

SUBTASK 33-44-02-710-001

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

- (a) At the overhead panel, P5, set the switch for the lower 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.

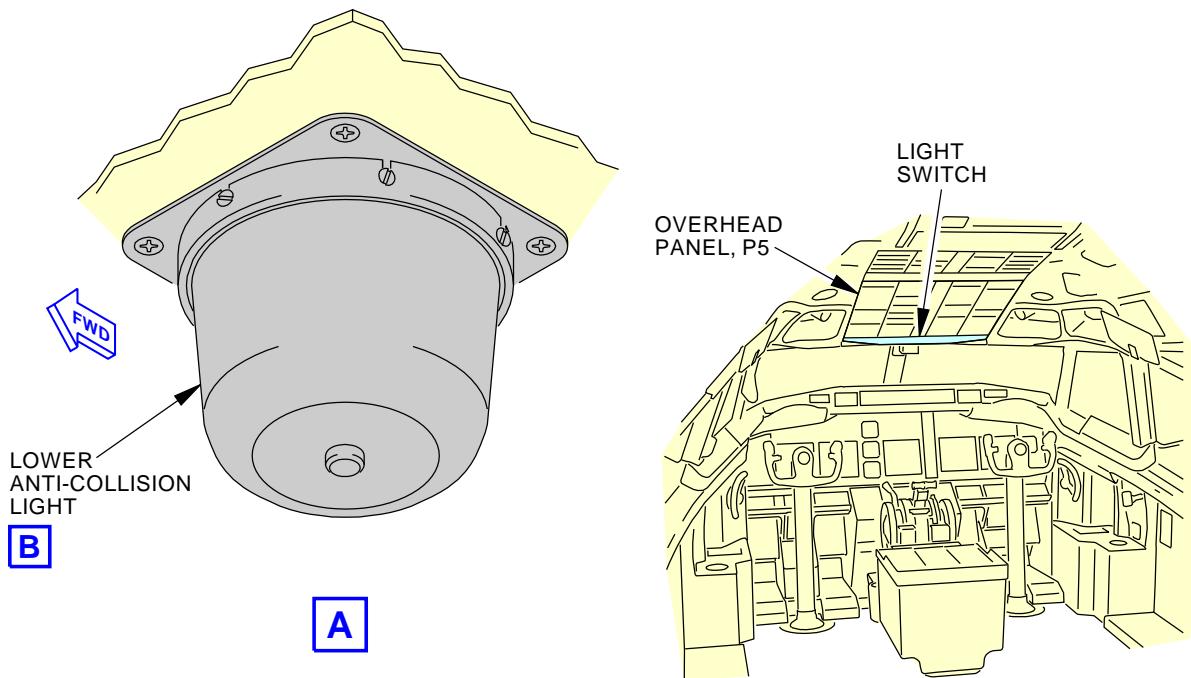
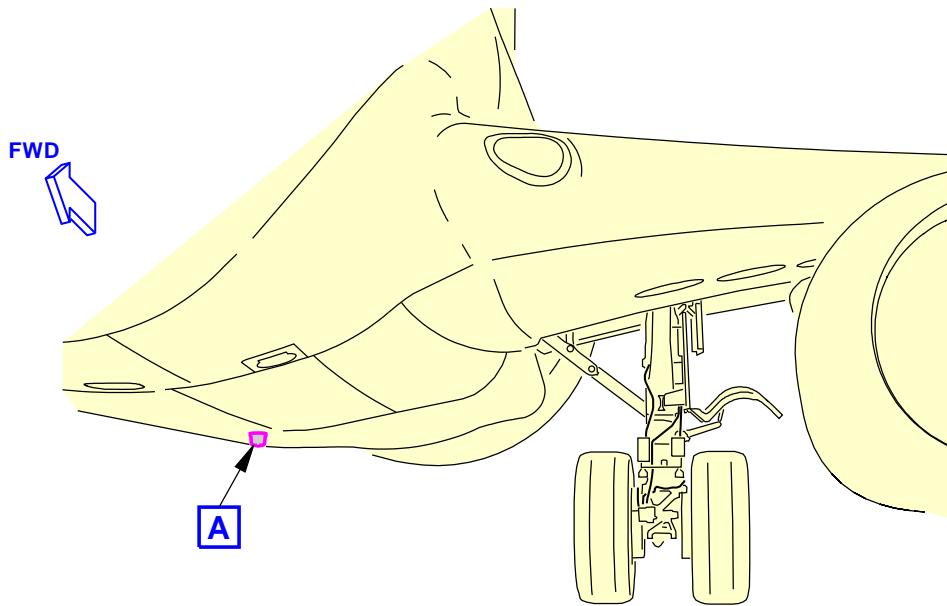
SUBTASK 33-44-02-860-004

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

———— END OF TASK ————



33-44-02


FLIGHT COMPARTMENT

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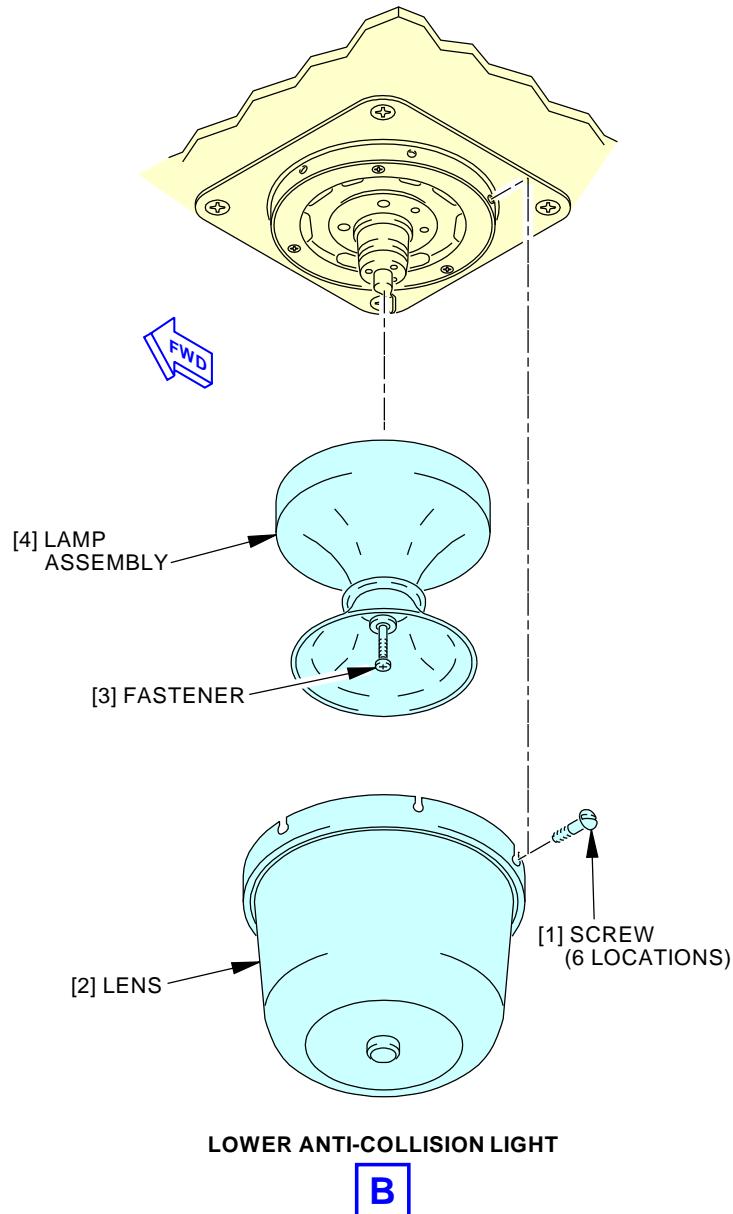
Lower Anti-Collision Light - Lamp Assembly Replacement
Figure 201/33-44-02-990-801 (Sheet 1 of 4)

EFFECTIVITY
 AKS ALL; AIRPLANES WITHOUT AERODYNAMIC
 SHAPED LIGHT

33-44-02



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F98414 S0006576265_V2

Lower Anti-Collision Light - Lamp Assembly Replacement
Figure 201/33-44-02-990-801 (Sheet 2 of 4)

EFFECTIVITY
AKS ALL; AIRPLANES WITHOUT AERODYNAMIC
SHAPE LIGHT

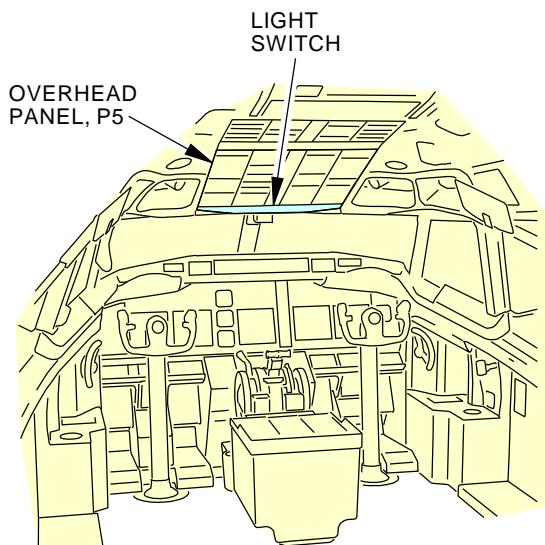
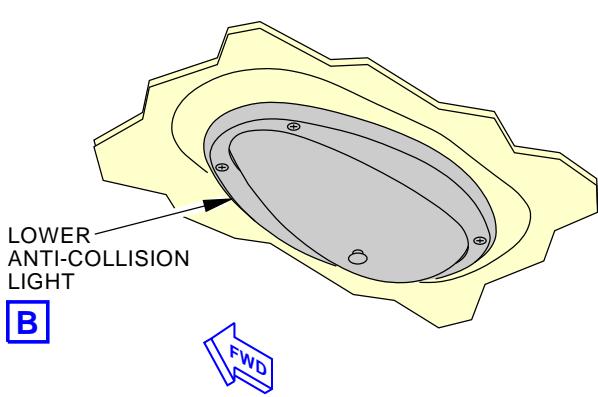
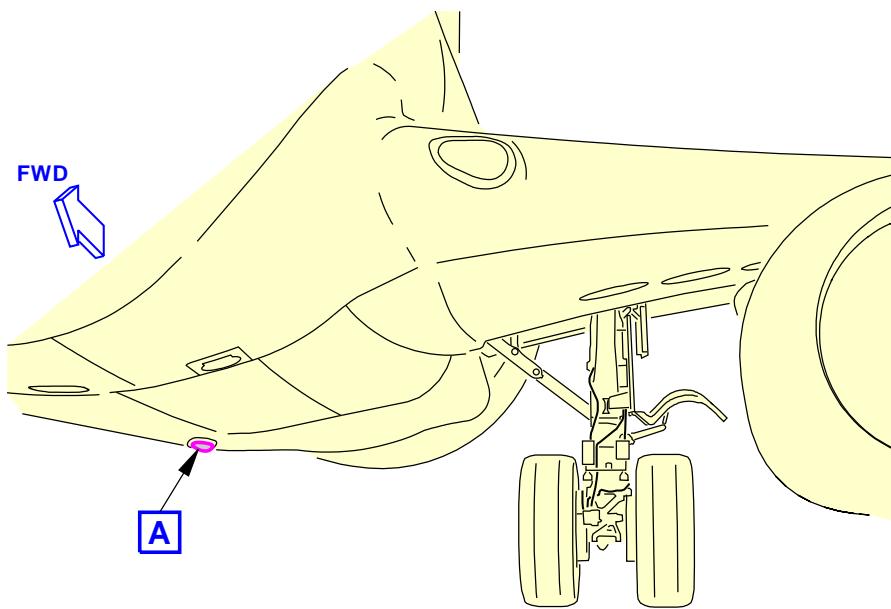
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33-44-02

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FLIGHT COMPARTMENT

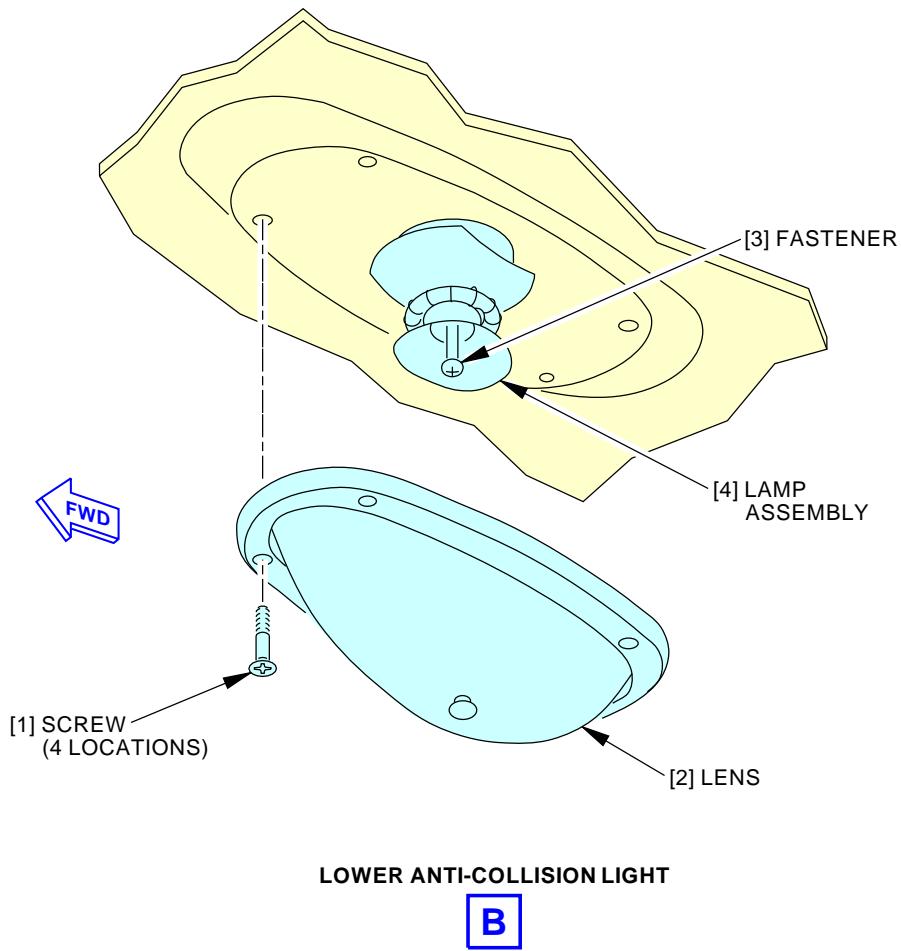
1981928 S0000383680_V2

Lower Anti-Collision Light - Lamp Assembly Replacement
Figure 201/33-44-02-990-801 (Sheet 3 of 4)

EFFECTIVITY
AKS ALL; AIRPLANES WITH AERODYNAMIC
SHAPE LIGHT

33-44-02

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1982321 S0000383681_V2

Lower Anti-Collision Light - Lamp Assembly Replacement
Figure 201/33-44-02-990-801 (Sheet 4 of 4)

EFFECTIVITY
AKS ALL; AIRPLANES WITH AERODYNAMIC
SHAPE LIGHT

D633A101-AKS

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AIRCRAFT MAINTENANCE MANUAL

TASK 33-44-02-960-802

3. Lower Anti-Collision 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)
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	Apply Alodine 600, 1200 or 1200S Solution (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)
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 Meters - 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 #: C15292 (MODEL T477W) Supplier: 01014 Part #: M1 Supplier: 3AD17 Opt Part #: M1B Supplier: 3AD17

C. Consumable Materials

Reference	Description	Specification
A00247	Sealant - Pressure And Environmental - Chromate Type	BMS5-95
B00130	Alcohol - Isopropyl	TT-I-735
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
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	BMS15-5 Class A
G50365	Agent - Peelable Parting (AC Products - AC962-73C) Production discontinued, use stock until depleted.	
G50367	Agent - Peelable Parting (Aztec Chemical AZ 634-2)	MIL-PRF-6799, BAC5000
G50368	Agent - Peelable Parting (Rexco Chemical Company - Partail Coverall Film)	



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AIRCRAFT MAINTENANCE MANUAL

D. Location Zones

Zone	Area
139	Keel Beam, (Part) Body Station 540.00 to Body Station 727.00

E. Procedure

SUBTASK 33-44-02-860-005

- (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

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.

AKS ALL; AIRPLANES WITH AERODYNAMIC SHAPED LIGHT

- (a) Remove the bolts [1] to remove the lens [2].

AKS ALL

- (b) Remove the bolts [26].
- (c) Pull down the light assembly [25].
- (d) Disconnect the electrical connector [21].
- (e) Remove the nut [22] and washer [23].
- (f) Lift off the ground wire [24].
- (g) Clean the surface that is left exposed by the light assembly (TASK 51-21-21-100-801).
- (h) 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).
- (i) 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 Partail 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.

AKS ALL; AIRPLANES WITH AERODYNAMIC SHAPED LIGHT

- (j) If necessary, remove the lens [2] from the light assembly [25].
- 1) Loosen the bolts [1] (four locations) and remove the lens [2].

NOTE: Do not touch the light assembly lamp or reflector.



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AKS ALL; AIRPLANES WITH AERODYNAMIC SHAPED LIGHT (Continued)

- a) Keep the bolts [1] for the installation.

AKS ALL

- (k) Connect the ground wire [24] to the new light assembly.
- (l) Connect the electrical connector [21] to the new light assembly.
- (m) With the electrical bonding intrinsically safe approved bonding meter, COM-1550, make sure the resistance between the light assembly [25] and the structure measures no more than 0.0015 ohm (1.5 milliohms).

AKS ALL; AIRPLANES WITH AERODYNAMIC SHAPED LIGHT

- (n) Apply AC962-73C peelable parting agent, G50365, AZ 634-2 peelable parting agent, G50367, or Rexco Partail 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 [25], is clear of all sealant.

AKS ALL

- (p) Put the light assembly [25] in the opening.
NOTE: A light assembly [25] with an arrow must be installed with the arrow pointed in the correct direction.
- (q) Install the bolts [26] with corrosion-preventative compound, C00528.

AKS ALL; AIRPLANES WITHOUT AERODYNAMIC SHAPED LIGHT

- (r) Apply the aerosmooth sealant, A00247, around the base of the light assembly [25].

AKS ALL; AIRPLANES WITH AERODYNAMIC SHAPED LIGHT

- (s) 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 [25], is clear of all sealant.
- (t) 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 ± 1 in-lb (1 ± 0 N·m) to install the lens [2] (four locations).

AKS ALL

- (u) If the lens is dirty, clean it with a clean, soft, dry cotton wiper, G00034.
 - 1) If a plug is installed on the bottom of the lens, remove and discard the plug [41].
 - 2) Make sure the grommet [42] is not removed.
NOTE: The opening of the grommet becomes a drain hole.

EFFECTIVITY	AKS ALL

33-44-02



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AIRCRAFT MAINTENANCE MANUAL

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 33-44-02-860-007

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

SUBTASK 33-44-02-710-002

- (5) 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 the light flashes (TASK 33-44-00-710-801).
- (b) Set the switch to the off mode.
 - 1) Make sure the light goes off.

SUBTASK 33-44-02-860-008

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

———— END OF TASK ————

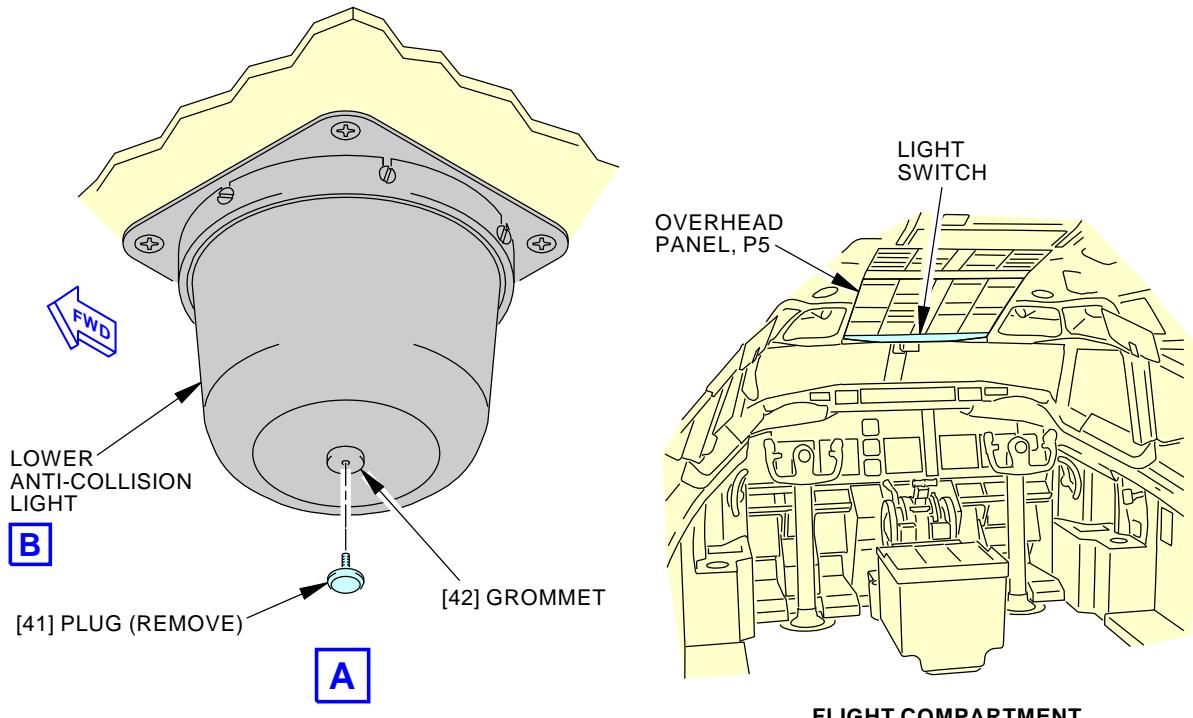
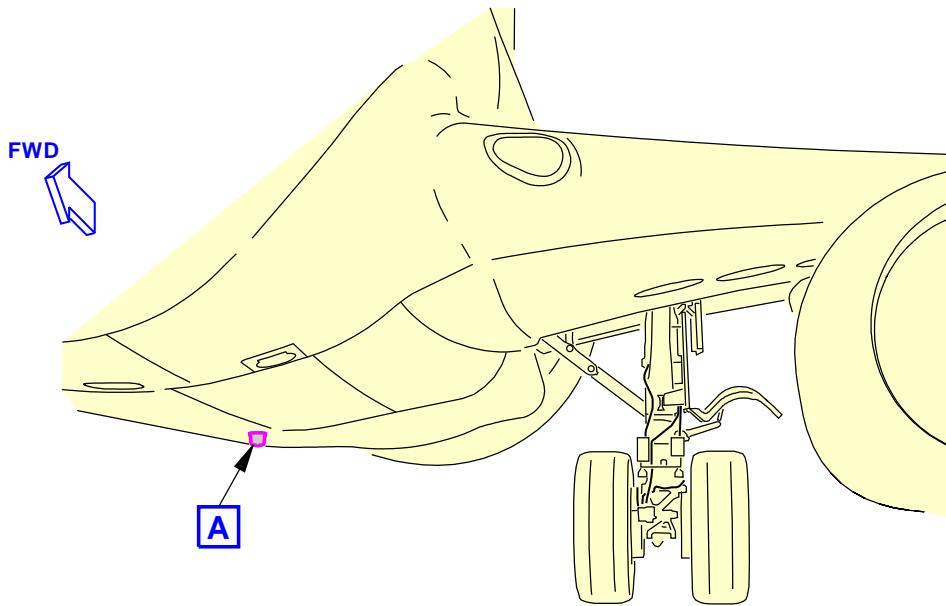
EFFECTIVITY
AKS ALL

33-44-02

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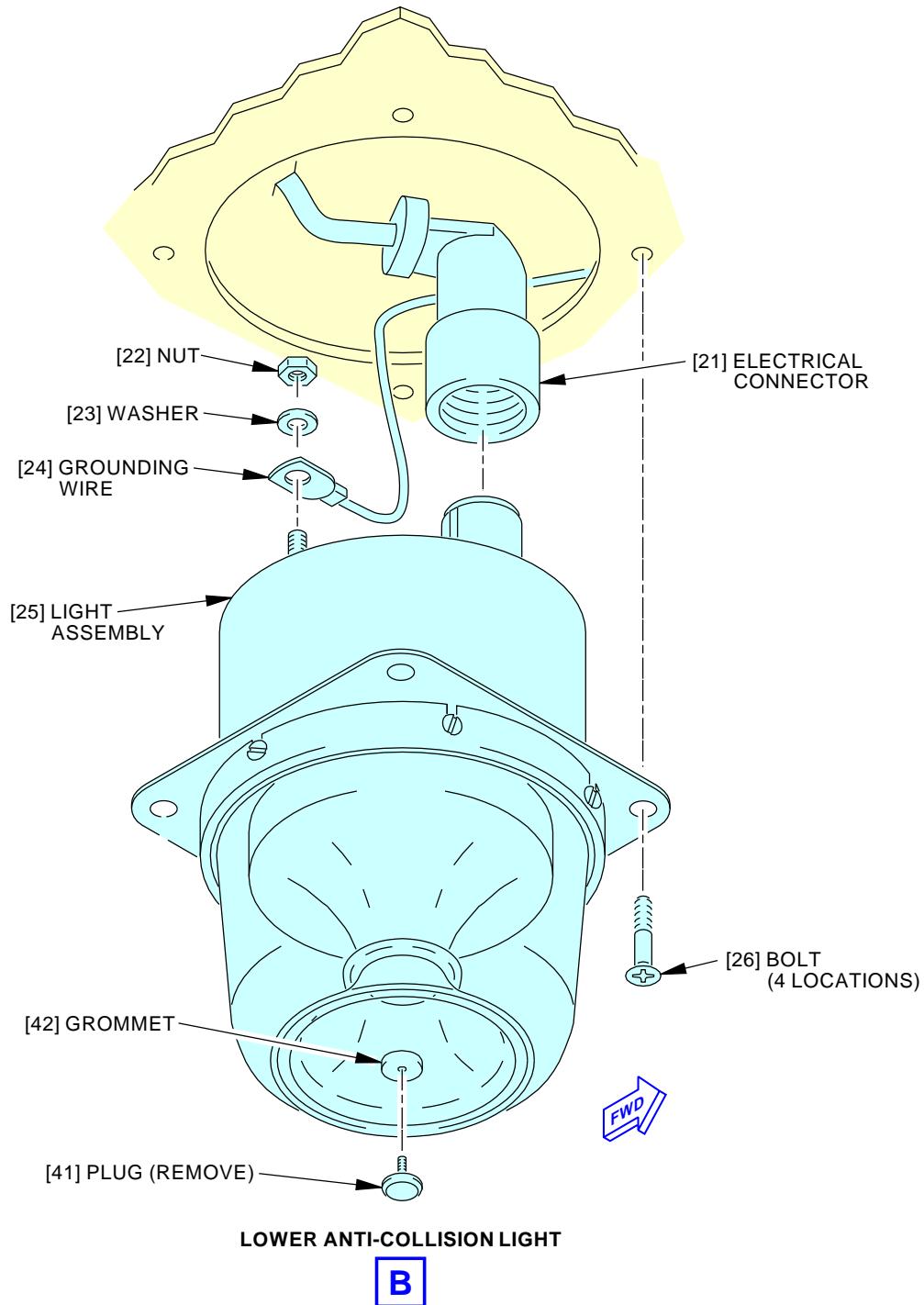


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Lower Anti-Collision Light - Light Assembly Replacement
Figure 202/33-44-02-990-802 (Sheet 1 of 4)

EFFECTIVITY
 AKS ALL; AIRPLANES WITHOUT AERODYNAMIC
 SHAPED LIGHT

33-44-02



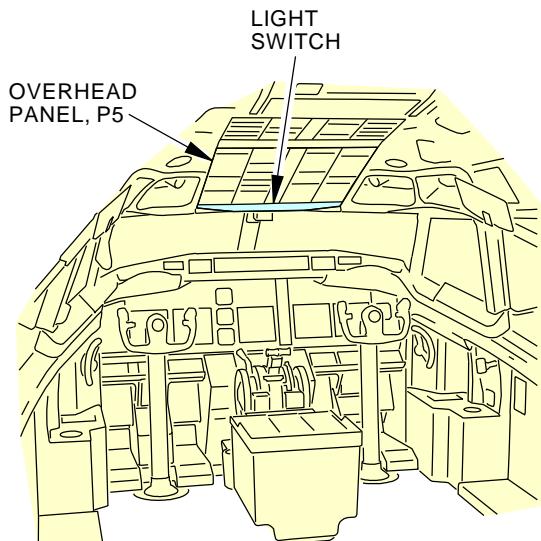
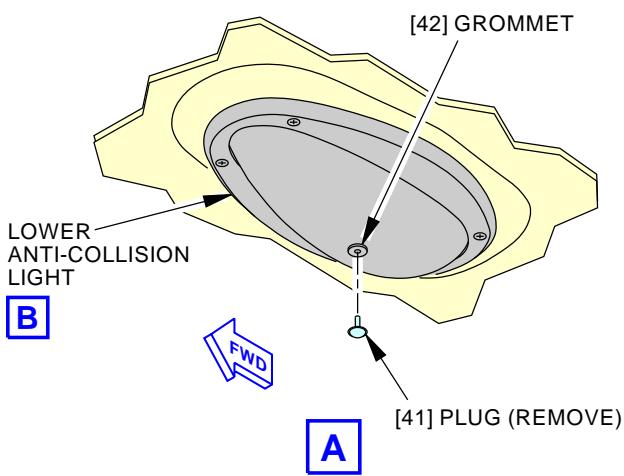
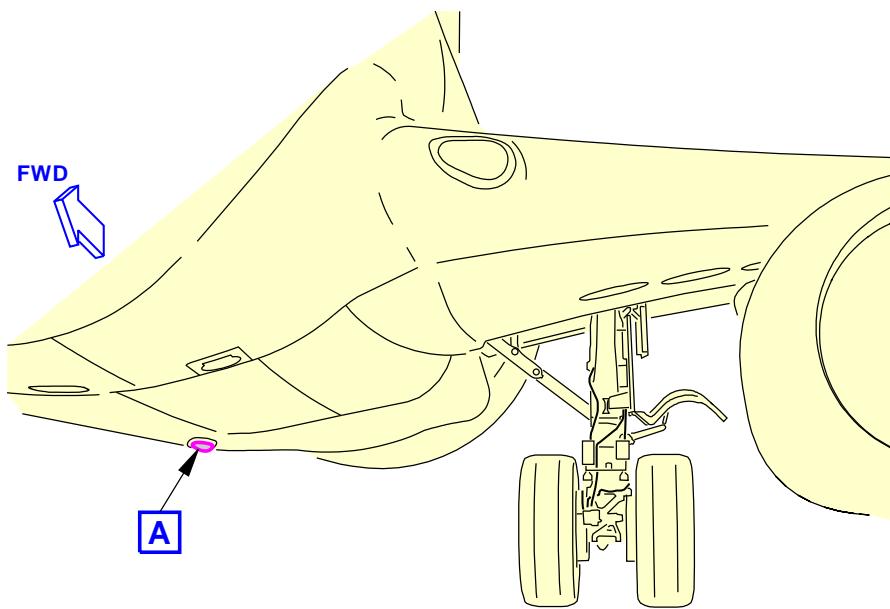
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Lower Anti-Collision Light - Light Assembly Replacement
Figure 202/33-44-02-990-802 (Sheet 2 of 4)

EFFECTIVITY
AKS ALL; AIRPLANES WITHOUT AERODYNAMIC
SHAPE LIGHT

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FLIGHT COMPARTMENT

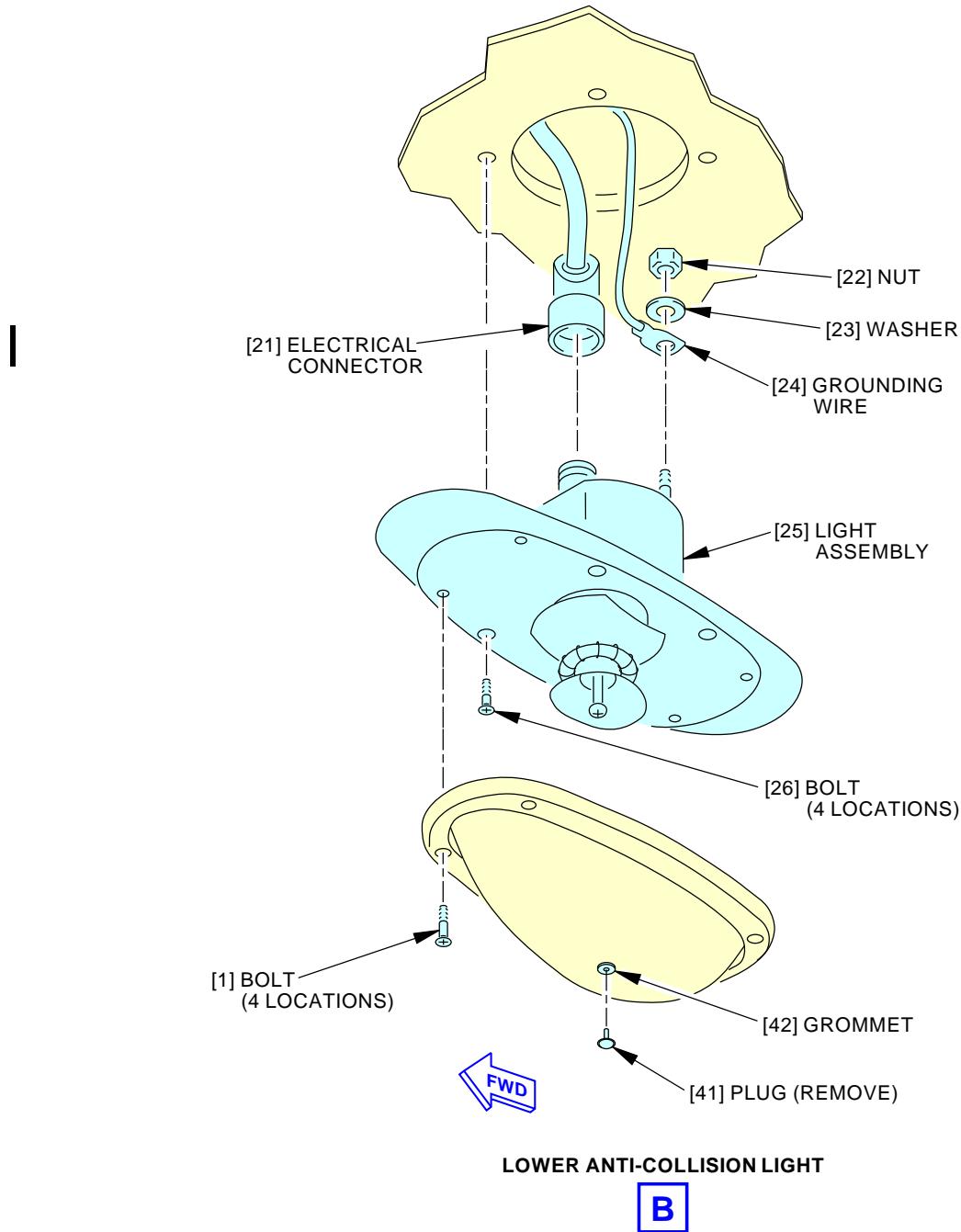
1981922 S0000383683_V3

Lower Anti-Collision Light - Light Assembly Replacement
Figure 202/33-44-02-990-802 (Sheet 3 of 4)

EFFECTIVITY
 AKS ALL; AIRPLANES WITH AERODYNAMIC
 SHAPED LIGHT

33-44-02

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1982340 S0000383684_V4

Lower Anti-Collision Light - Light Assembly Replacement
Figure 202/33-44-02-990-802 (Sheet 4 of 4)

EFFECTIVITY
**AKS ALL; AIRPLANES WITH AERODYNAMIC
 SHAPED LIGHT**

33-44-02



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

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
2	Lens	33-44-01-01A-114	AKS ALL
		33-44-02-01A-113	AKS ALL

C. Location Zones

Zone	Area
139	Keel Beam, (Part) Body Station 540.00 to Body Station 727.00

D. Procedure

SUBTASK 33-44-02-960-003

- (1) Do these steps to replace the lens:
 - (a) Loosen the screws [1] and lift off the lens [2].
 - (b) Put on the new lens [2] and tighten the screws [1].

AKS ALL; AIRPLANES WITH AERODYNAMIC SHAPED LIGHT

- 1) Tighten the screws [1] to a torque of 10 in-lb (1 N·m) (four locations).

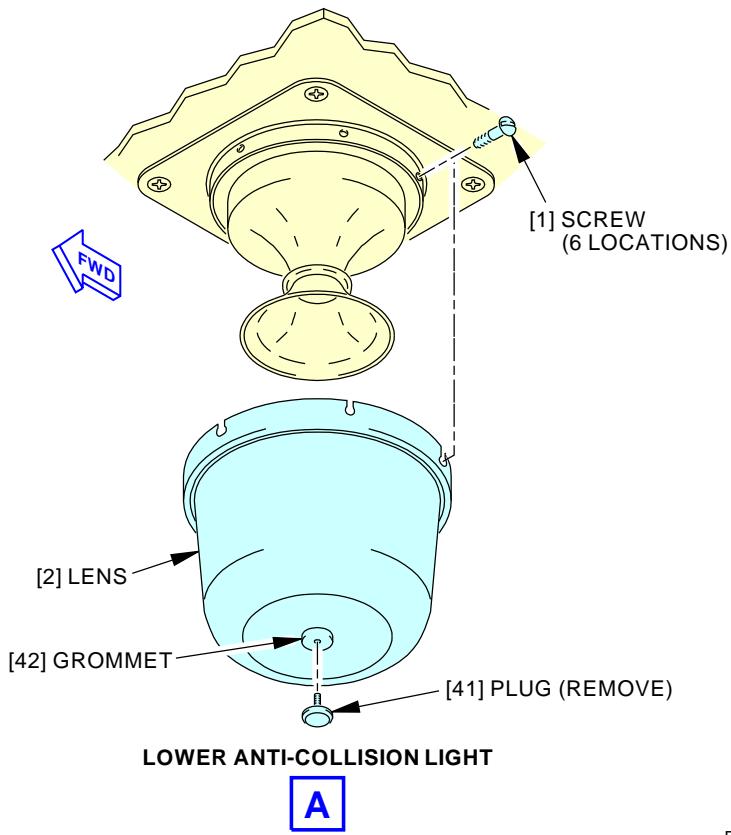
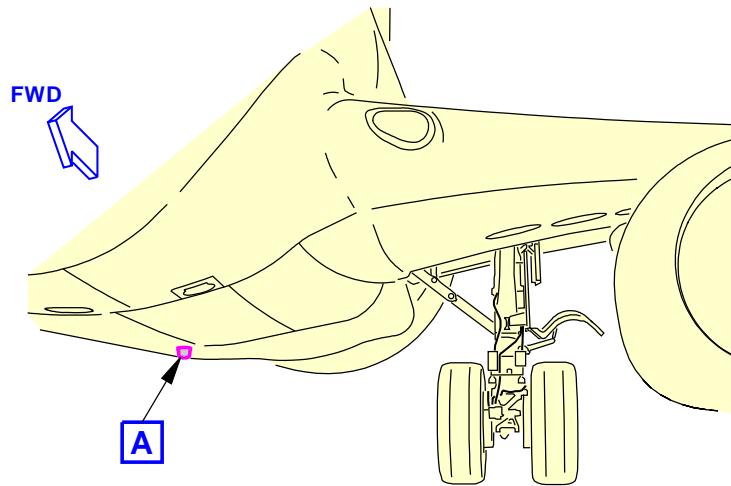
AKS ALL

- 2) If a plug is installed on the bottom of the lens [2], remove and discard the plug [41].
- 3) Make sure the grommet [42] is not removed.
NOTE: The opening of the grommet becomes a drain hole.
- 4) If the lens is dirty, clean it with a clean, soft, dry cotton wiper, G00034.

———— END OF TASK ————

EFFECTIVITY
AKS ALL

33-44-02

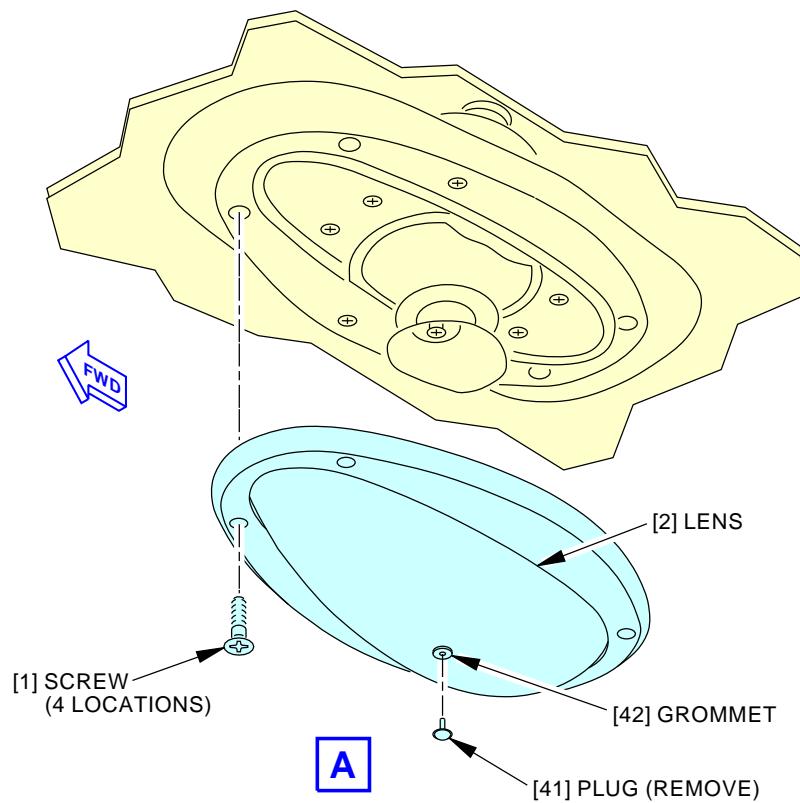
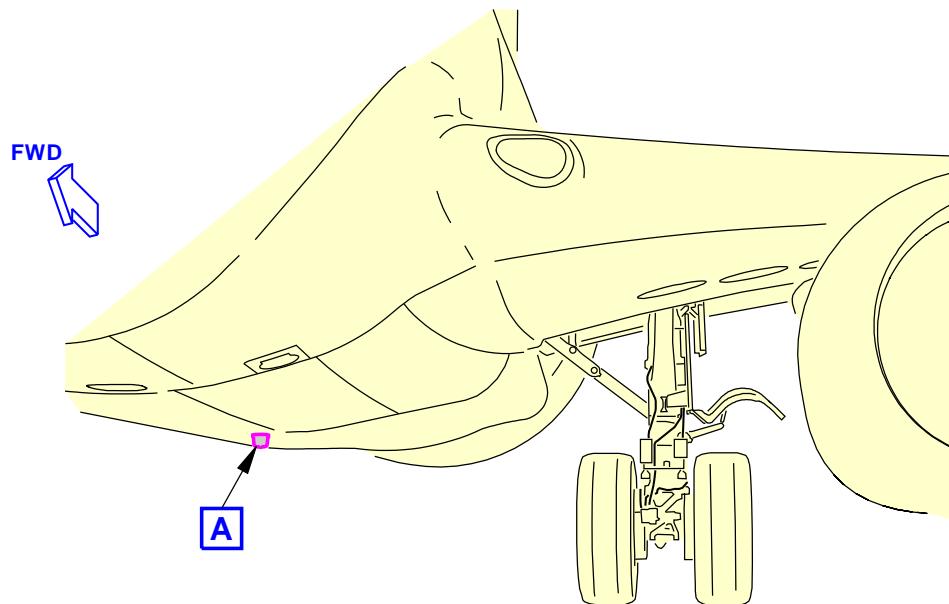


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Lower Anti-Collision Light - Lens Replacement
Figure 203/33-44-02-990-803 (Sheet 1 of 2)

EFFECTIVITY
 AKS ALL; AIRPLANES WITHOUT AERODYNAMIC
 SHAPED LIGHT

33-44-02



1981930 S0000383685_V4

Lower Anti-Collision Light - Lens Replacement
Figure 203/33-44-02-990-803 (Sheet 2 of 2)

EFFECTIVITY
AKS ALL; AIRPLANES WITH AERODYNAMIC
SHAPE LIGHT

33-44-02



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TASK 33-44-02-960-804

5. Lower Anti-Collision Light - Power Supply 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)
33-44-00-710-801	Anti-Collision Lights - Operational Test (P/B 501)
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 Meters - 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 #: C15292 (MODEL T477W) Supplier: 01014 Part #: M1 Supplier: 3AD17 Opt Part #: M1B Supplier: 3AD17

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
62	Power supply	33-44-02-02C-005	AKS ALL

D. Location Zones

Zone	Area
139	Keel Beam, (Part) Body Station 540.00 to Body Station 727.00

E. Access Panels

Number	Name/Location
192BL	ECS Ram Air Inlet Mixing Duct Panel - Forward

F. Procedure

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
-------	---



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SUBTASK 33-44-02-960-004

WARNING: DO NOT TOUCH THE POWER SUPPLY FOR 3 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 (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) Replace the power supply [62].
- (d) Tighten the fasteners [61].
- (e) Connect the electrical connectors [63] to the new power supply.
- (f) With the electrical bonding intrinsically safe approved bonding meter, COM-1550, make sure the resistance between the power supply and the fuselage measures no more than 0.0025 ohms.

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

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	12	C00111	EXTERIOR LIGHTING ANTI COLLISION RED

SUBTASK 33-44-02-860-011

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

SUBTASK 33-44-02-710-003

- (7) Do a test of the new power supply:

- (a) At the overhead panel, P5, set the switch for the lower 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.

SUBTASK 33-44-02-860-012

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

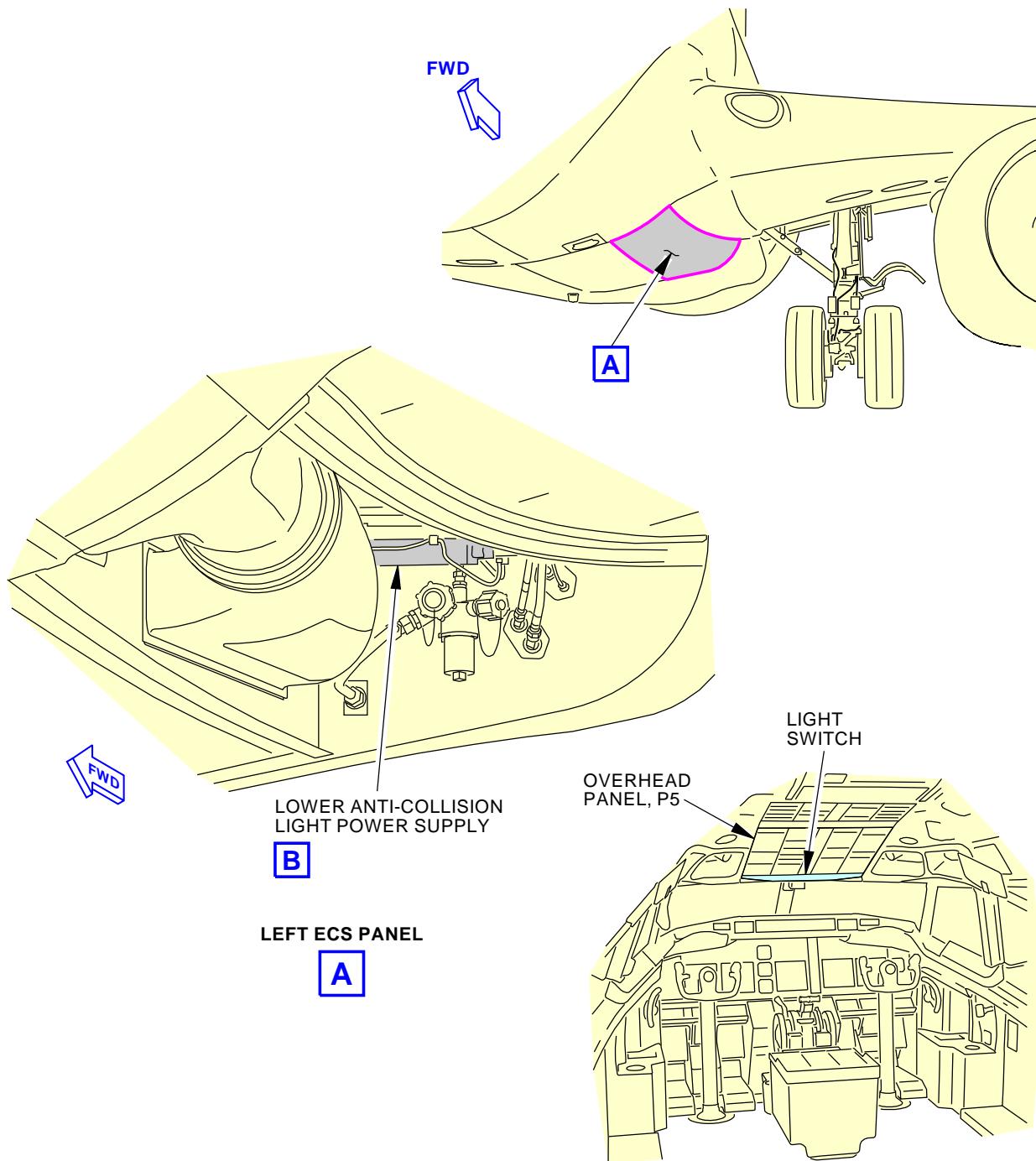
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33-44-02



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FLIGHT COMPARTMENT

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Lower Anti-Collision Light - Power Supply Replacement
Figure 204/33-44-02-990-804 (Sheet 1 of 2)

EFFECTIVITY
AKS ALL

33-44-02

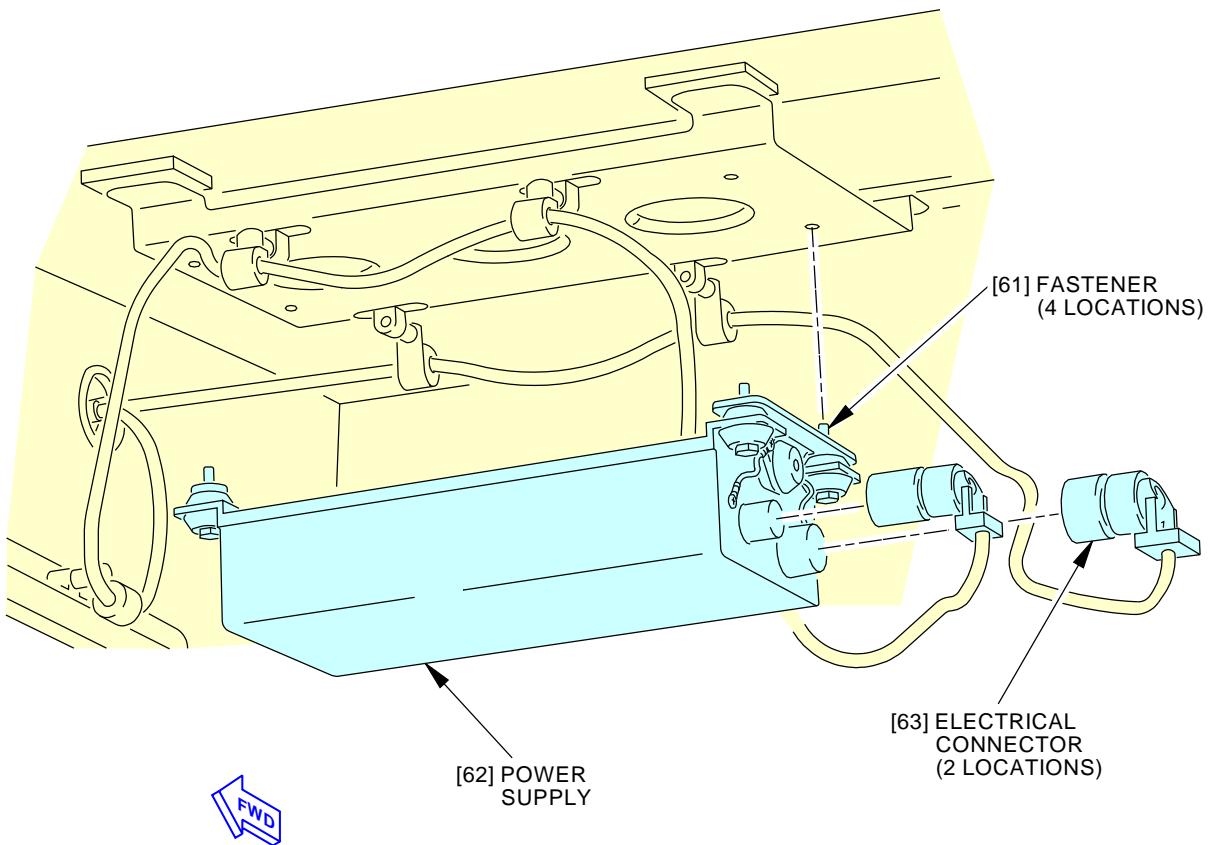
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LOWER ANTI-COLLISION LIGHT POWER SUPPLY

B

F98892 S0006576273_V2

Lower Anti-Collision Light - Power Supply Replacement
Figure 204/33-44-02-990-804 (Sheet 2 of 2)

EFFECTIVITY
AKS ALL

33-44-02

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AIRCRAFT MAINTENANCE MANUAL

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
20-30-51-910-801	Miscellaneous Materials (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)
33-44-00-710-801	Anti-Collision Lights - Operational Test (P/B 501)
WDM 33-44-12	Wiring Diagram Manual

B. Consumable Materials

Reference	Description	Specification
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	BMS15-5 Class A
G51112	Lockwire - 0.032 Inch Brass (Lockwire AS9226 ASTM B134 or AMS5687 (.025 Inch) is an acceptable alternative for lockwire G51112)	

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Lamp	33-44-04-01-030	AKS 002-999

D. Location Zones

Zone	Area
310	Fuselage - Body Station 1016.00 to Body Station 1217.00

E. Procedure

SUBTASK 33-44-04-860-001

- (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 33-44-04-960-001

WARNING: 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.

- (2) Do these steps to replace the lamp (WDM 33-44-12):

- (a) If it is necessary, remove the over-run sealant between the black retainer of the lens [3] and the housing interface.

EFFECTIVITY
AKS ALL

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- (b) Remove the screws [4] and pull off the lens [3].
- (c) Remove the brass lockwire, G51112 from each end of the lamp (Miscellaneous Materials, TASK 20-30-51-910-801).
NOTE: Light Assembly 30-0909-301 does not require lockwire.
- (d) Replace the lamp [1].
- (e) Install the brass lockwire, G51112 between the lamp and the lamp receptacle (Miscellaneous Materials, TASK 20-30-51-910-801).
NOTE: Light Assembly 30-0909-301 does not require lockwire.
- (f) Examine the gasket [2].
 - 1) If the gasket is worn, replace it.
- (g) Put on the lens [3] and install the screws [4].
 - 1) If the lens is dirty, clean it with a clean, soft, dry cotton wiper, G00034.

SUBTASK 33-44-04-860-002

- (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	13	C00115	EXT LIGHTING ANTI COLLISION WHITE

SUBTASK 33-44-04-860-003

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

SUBTASK 33-44-04-710-001

- (5) Do a test of the new lamp.
 - (a) At the overhead panel, P5, set the switch for the tail 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 33-44-04-860-004

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

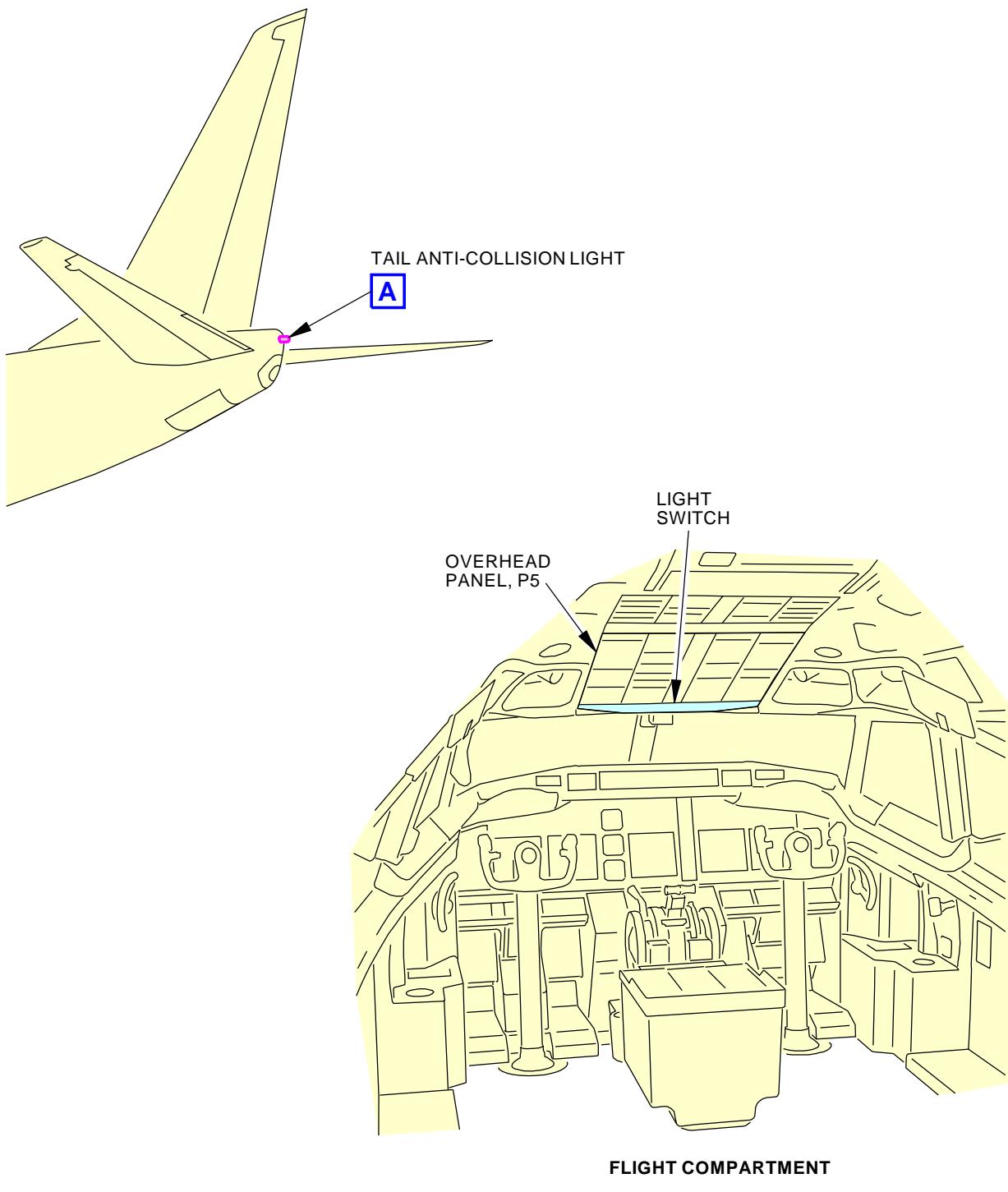
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EFFECTIVITY
AKS ALL

33-44-04



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AIRCRAFT MAINTENANCE MANUAL



FLIGHT COMPARTMENT

F99174 S0006576292_V2

Tail Anti-Collision Light - Lamp Replacement
Figure 201/33-44-04-990-801 (Sheet 1 of 2)

EFFECTIVITY
AKS ALL

33-44-04

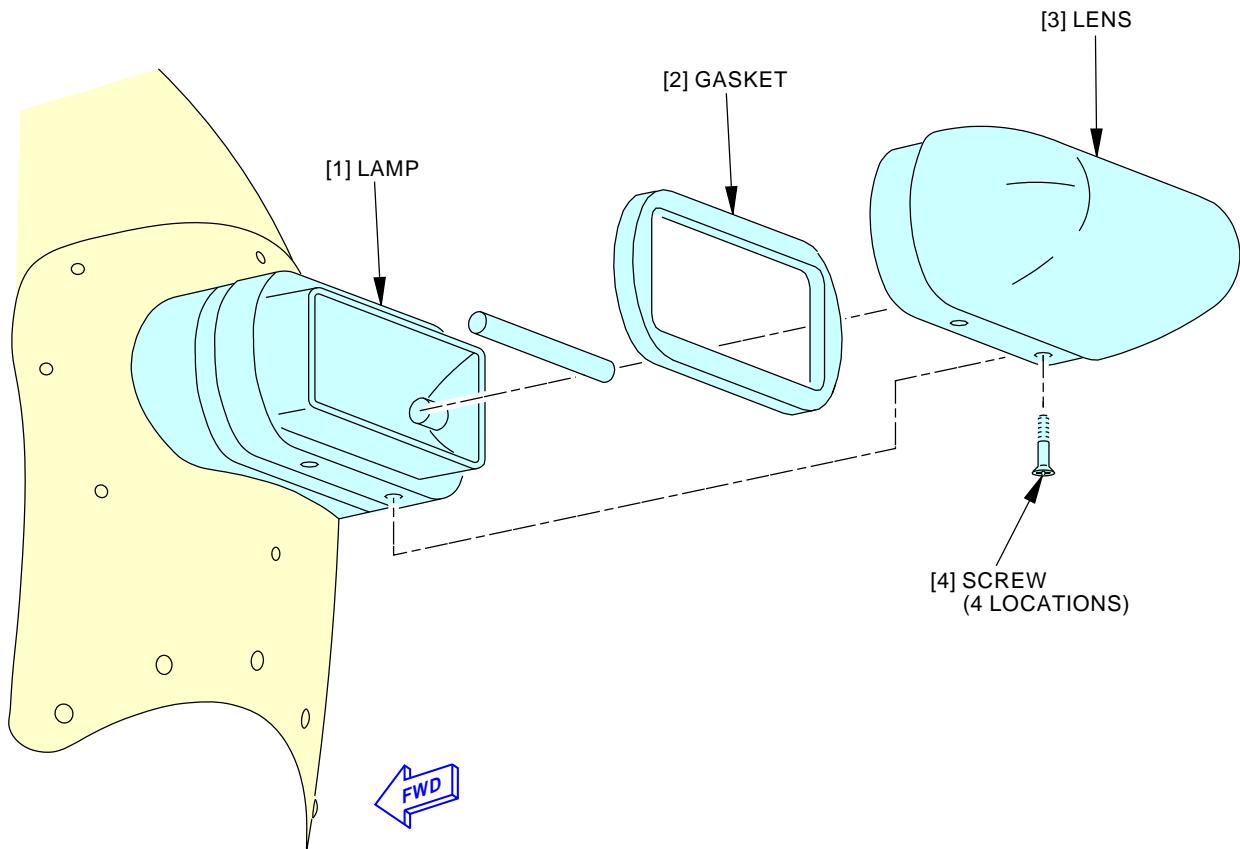
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TAIL ANTI-COLLISION LIGHT

A

2035794 S0000409798_V2

Tail Anti-Collision Light - Lamp Replacement
Figure 201/33-44-04-990-801 (Sheet 2 of 2)

EFFECTIVITY
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TASK 33-44-04-960-802

3. Tail Anti-Collision 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)
33-44-00-710-801	Anti-Collision Lights - Operational Test (P/B 501)
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-1550	Bonding Meters - 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 #: C15292 (MODEL T477W) Supplier: 01014 Part #: M1 Supplier: 3AD17 Opt Part #: M1B Supplier: 3AD17

C. Consumable Materials

Reference	Description	Specification
A50057	Adhesive - Silicone Rubber, RTV157	BAC5010 Type 60
B00062	Solvent - Acetone (99.5% Grade)	ASTM D 329 (Supersedes O-A-51)
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	BMS15-5 Class A

D. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
22	Light assembly	33-44-04-01-010	AKS 002-999

E. Location Zones

Zone	Area
310	Fuselage - Body Station 1016.00 to Body Station 1217.00

F. Procedure

SUBTASK 33-44-04-860-005

- (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



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SUBTASK 33-44-04-960-002

- (2) Do these steps to replace the light assembly (WDM 33-44-12):

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

NOTE: The part number of new light assembly 30-0909-301.

- (a) Remove the screws [26].
- (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 to the housing.
- (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. If there are signs of water penetration, then do these steps:
 - 1) Remove the screws that attach the lens to the light assembly [22] (four locations).
 - 2) Examine the gasket (P/N 31-6383-1) to make sure it can be re-used. Replace the gasket if necessary.
 - 3) Remove the old adhesive from the lens assembly.
 - a) Use a clean, dry cotton wiper, G00034, soaked with solvent, B00062.
 - b) Rub dry with a clean, dry cotton wiper, G00034.

WARNING: DO NOT GET PRIMER AND SEALANT IN YOUR MOUTH, EYES, OR ON YOUR SKIN. DO NOT BREATHE THE FUMES FROM PRIMER AND SEALANT. PUT ON GOGGLES, AND GLOVES WHEN YOU USE PRIMER AND SEALANT. KEEP PRIMER AND SEALANT AWAY FROM SPARKS, FLAME, AND HEAT. PRIMER AND SEALANT IS POISONOUS AND FLAMMABLE, AND CAN CAUSE INJURIES TO PERSONNEL AND DAMAGE TO EQUIPMENT.

- 4) Apply a bead of adhesive, A50057, to the lens assembly, at the base of the glass.
- 5) Bow the gasket and insert it into the lens assembly with the closed cell foam facing the glass.
- 6) Seat the gasket on the base of the glass.
- 7) Examine the lens to make sure that a sufficient bead of adhesive, A50057, has squeezed out between the gasket and the lens assembly.
- 8) Use a clean cotton wiper, G00034, to remove excess sealant.
- 9) Let the lens assembly air-dry for 4 hours.
- (g) Install the bolts [23] to hold the light assembly [22] in the housing.
 - 1) With the electrical bonding (intrinsically safe approved bonding meter, COM-1550), make sure the resistance between the light assembly connector and the housing measures no more than 0.0005 ohms.
- (h) Connect the electrical connector [25]:
 - 1) Clean the electrical connector [25] (SWPM 20-60-01).
 - 2) Connect the electrical connector [25] (SWPM 20-60-06).

EFFECTIVITY
AKS ALL

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- 3) With the electrical bonding (intrinsically safe approved bonding meter, COM-1550), make sure the resistance between the electrical connector braid and the housing measures no more than 0.003 ohms.
 - (i) Put the housing [24] in the fuselage.
 - (j) Install the screws [21].
 - (k) Install the screws [26].
 - (l) With the electrical bonding (intrinsically safe approved bonding meter, COM-1550), make sure the resistance between the metal components of the anticolision light housing and the APU eductor fairing surface measures no more than 0.001 ohms.
 - (m) If the lens is dirty, clean it with a clean, soft, dry cotton wiper, G00034.

SUBTASK 33-44-04-860-006

- (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	13	C00115	EXT LIGHTING ANTI COLLISION WHITE

SUBTASK 33-44-04-860-007

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

SUBTASK 33-44-04-710-002

- (5) Do a test of the new light assembly.
 - (a) At the overhead panel, P5, set the switch for the tail 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 33-44-04-860-008

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

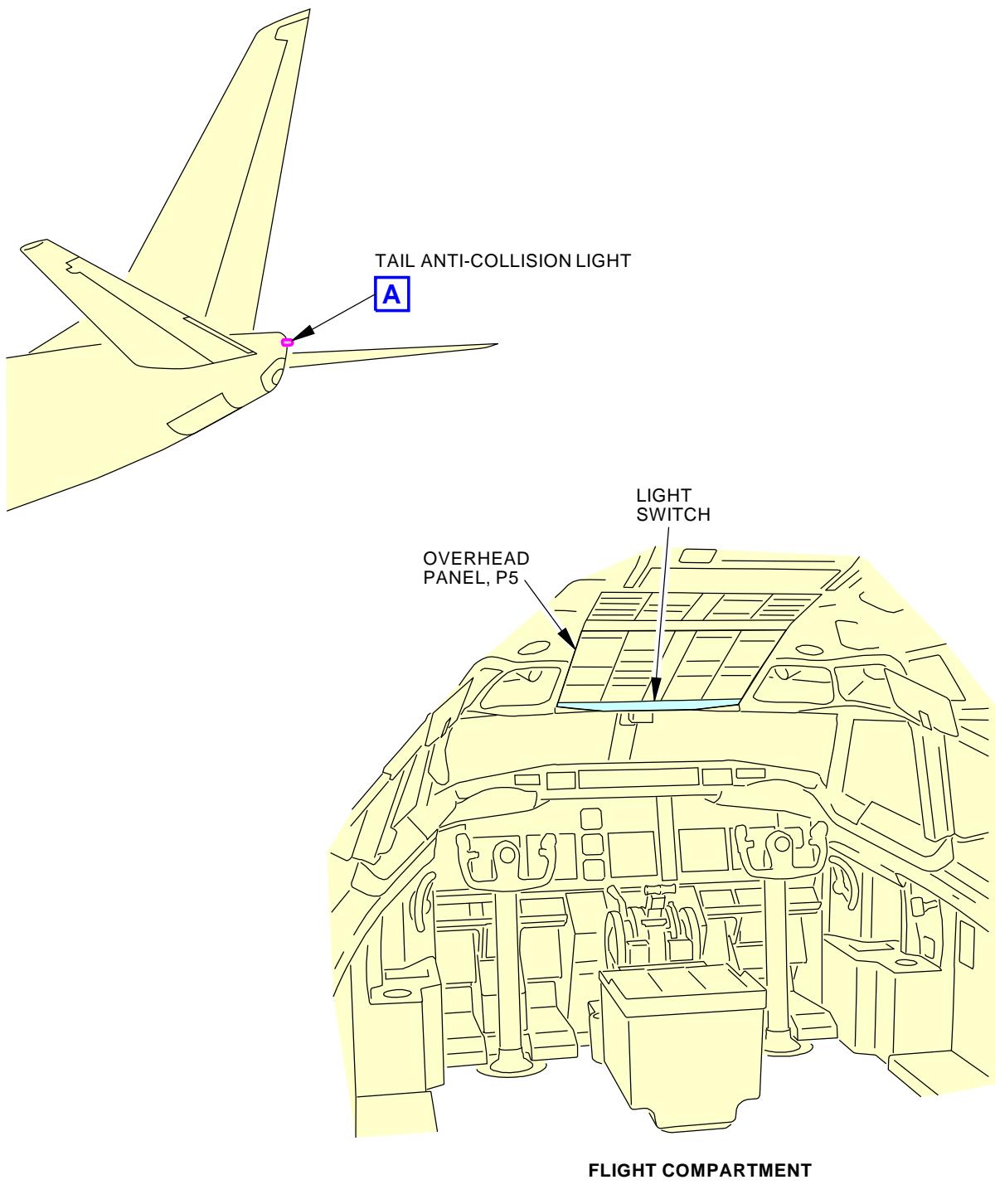
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FLIGHT COMPARTMENT

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Tail Anti-Collision Light - Light Assembly Replacement
Figure 202/33-44-04-990-802 (Sheet 1 of 2)

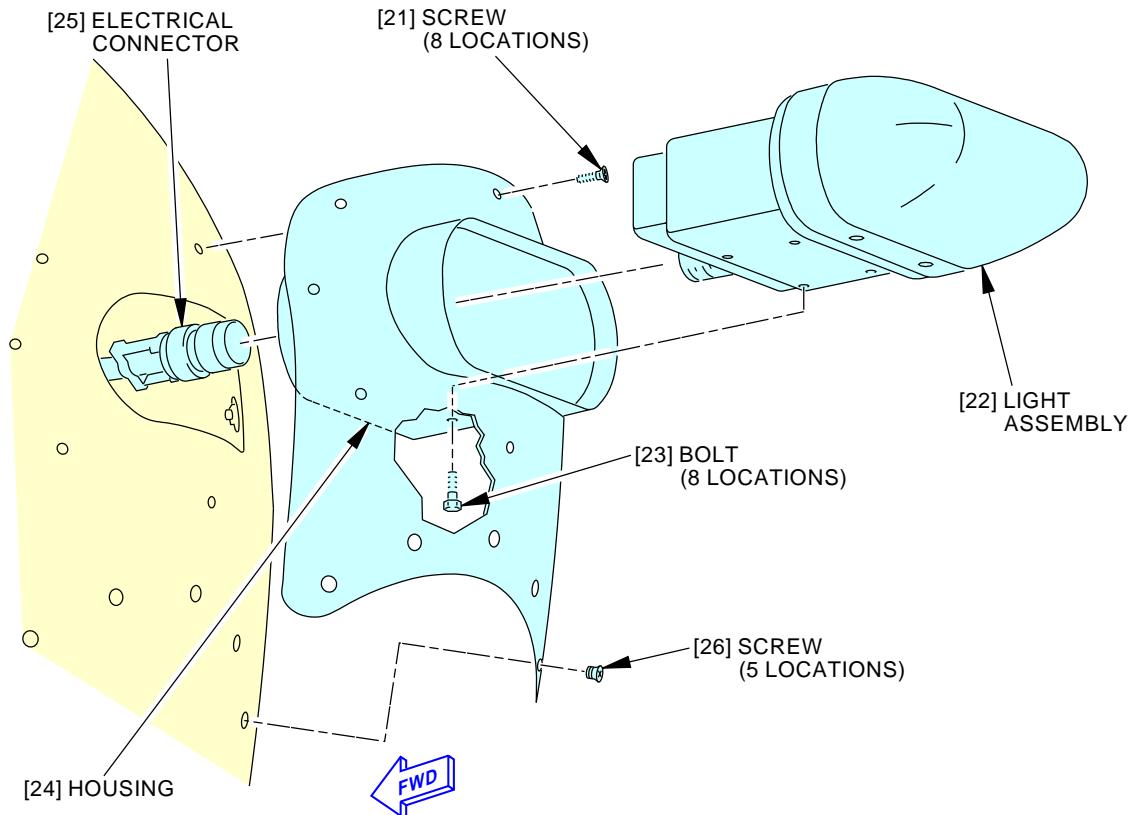
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33-44-04

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TAIL ANTI-COLLISION LIGHT

A

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Tail Anti-Collision Light - Light Assembly Replacement
Figure 202/33-44-04-990-802 (Sheet 2 of 2)

EFFECTIVITY
AKS ALL

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AIRCRAFT MAINTENANCE MANUAL

TASK 33-44-04-960-803

4. Tail Anti-Collision Light - Lens Replacement

(Figure 203)

A. Consumable Materials

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

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
3	Lens	33-44-04-01-015	AKS 002-999

C. Location Zones

Zone	Area
310	Fuselage - Body Station 1016.00 to Body Station 1217.00

D. Procedure

SUBTASK 33-44-04-860-009

- (1) Do these steps to replace the lens:

- (a) If it is necessary, remove the over-run sealant between the black retainer of the lens [3] and the housing interface.
 - (b) Remove the screws [4] and pull off the lens [3].
 - (c) Put on the new lens [3] and install the screws [4].
- 1) If the new lens is dirty, clean it with a clean, soft, dry cotton wiper, G00034.

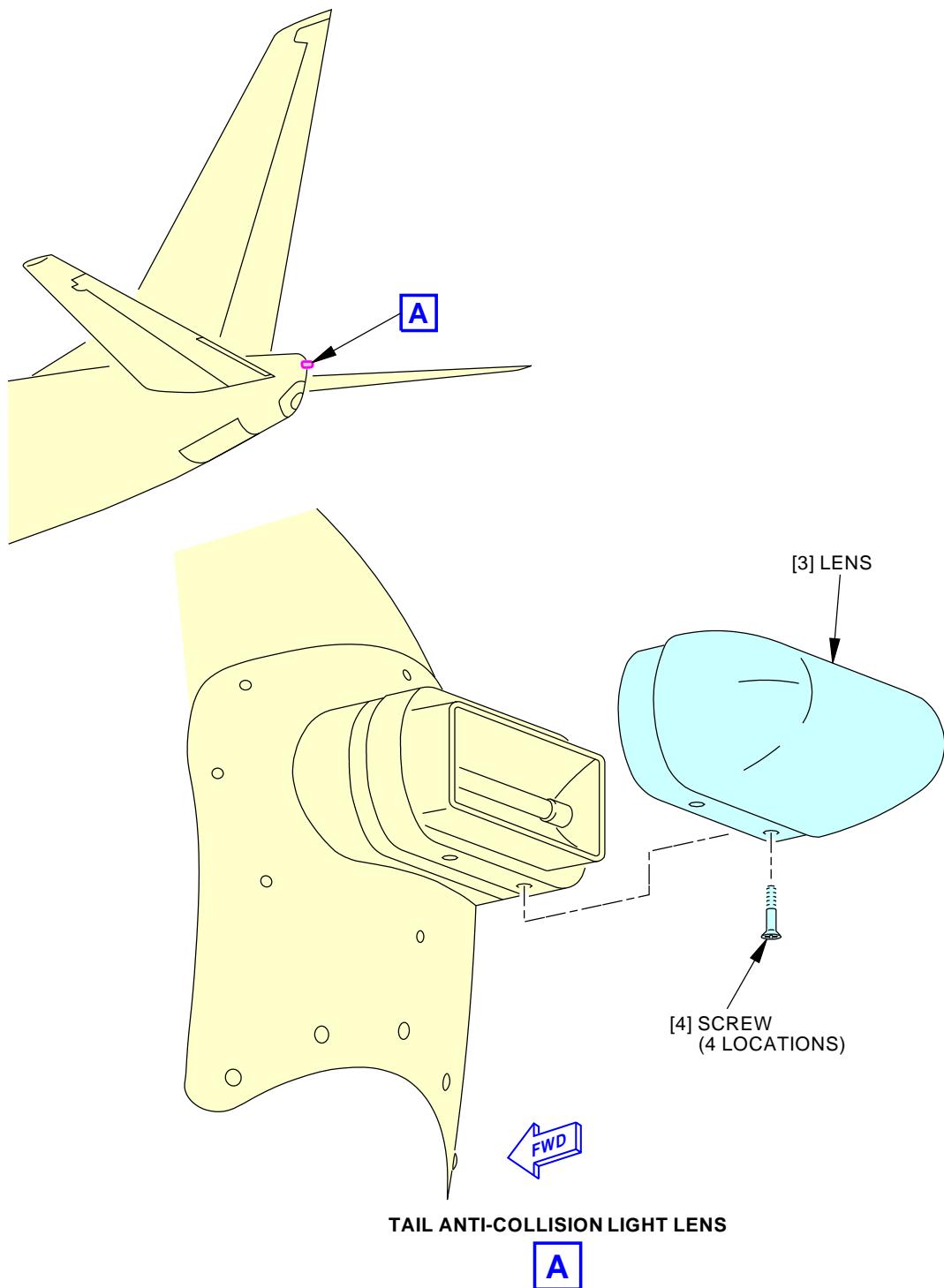
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Tail Anti-Collision Light - Lens Replacement
Figure 203/33-44-04-990-803

EFFECTIVITY
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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 Replacement
 - (2) Wing Anti-Collision Light - Power Supply Replacement

AKS ALL; AIRPLANES WITH SINGLE FORWARD LENS CONFIGURATION

- (3) Wing Anti-Collision Light - Disconnect the Electrical Connector
- (4) Wing Anti-Collision Light - Connect the Electrical Connector

AKS 001; AIRPLANES WITH DUAL LENS CONFIGURATION AND WITHOUT LED WINGLET LIGHTS

- (5) Wing Anti-Collision Light - Attenuator Assembly Replacement

AKS 002-999; AIRPLANES WITH LED WINGLET LIGHTS

- (6) Wing Anti-Collision Light - Stepdown Converter Replacement

AKS ALL

- (7) Wing Anti-Collision Light - Lamp Replacement

AKS 002-999; AIRPLANES WITH LED WINGLET LIGHTS

- (8) Wing Anti-Collision Light - LED Module Replacement

AKS ALL; AIRPLANES WITH SINGLE FORWARD LENS CONFIGURATION

TASK 33-44-13-960-801

2. Anti-Collision Light - Light Assembly 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)
33-44-00-710-801	Anti-Collision Lights - Operational Test (P/B 501)
57-21-22-000-801	Forward Position Light and Anti-Collision Light Panel (Single Forward Lens) Removal (P/B 201)
57-21-22-400-802	Forward Position Light and Anti-Collision Light Panel (Single Forward Lens) 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
COM-1550	Bonding Meters - 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 #: C15292 (MODEL T477W) Supplier: 01014 Part #: M1 Supplier: 3AD17 Opt Part #: M1B Supplier: 3AD17

EFFECTIVITY
AKS ALL

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AKS ALL; AIRPLANES WITH SINGLE FORWARD LENS CONFIGURATION (Continued)

C. Location Zones

Zone	Area
527	Left Winglet
627	Right Winglet

D. Procedure

SUBTASK 33-44-13-020-001

- (1) Remove the Winglet leading edge assembly:

- (a) Do this task: Forward Position Light and Anti-Collision Light Panel (Single Forward Lens) Removal, TASK 57-21-22-000-801.

SUBTASK 33-44-13-020-002

WARNING: DO NOT TOUCH THE ANTI-COLLISION LIGHT FOR 10 MINUTES AFTER YOU REMOVE ELECTRICAL POWER. AN ELECTRICAL SHOCK CAN CAUSE INJURY TO PERSONS OR DAMAGE TO EQUIPMENT.

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

NOTE: The stair step bracket assembly does NOT have to be removed from the leading edge assembly to accomplish this task.

- (a) Loosen the mounting screws [1] attaching the anticollision light assembly [2] to the bracket.

- (b) Remove the anti-collision light assembly.

SUBTASK 33-44-13-410-001

- (3) Install the new anti-collision light assembly

- (a) Put the light assembly [2] in position on the bracket.

- (b) Tighten the mounting screws [1] to attach the light assembly.

- (c) With the electrical bonding intrinsically safe approved bonding meter, COM-1550, make sure the resistance between the light assembly and the structure of the leading edge assembly measures no more than 0.0025 ohms

SUBTASK 33-44-13-960-001

- (4) Install the Winglet leading edge assembly:

- (a) Do this task: Forward Position Light and Anti-Collision Light Panel (Single Forward Lens) Installation, TASK 57-21-22-400-802.

SUBTASK 33-44-13-860-001

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

SUBTASK 33-44-13-710-001

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

- (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.

EFFECTIVITY
AKS ALL

33-44-13



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AKS ALL; AIRPLANES WITH SINGLE FORWARD LENS CONFIGURATION (Continued)

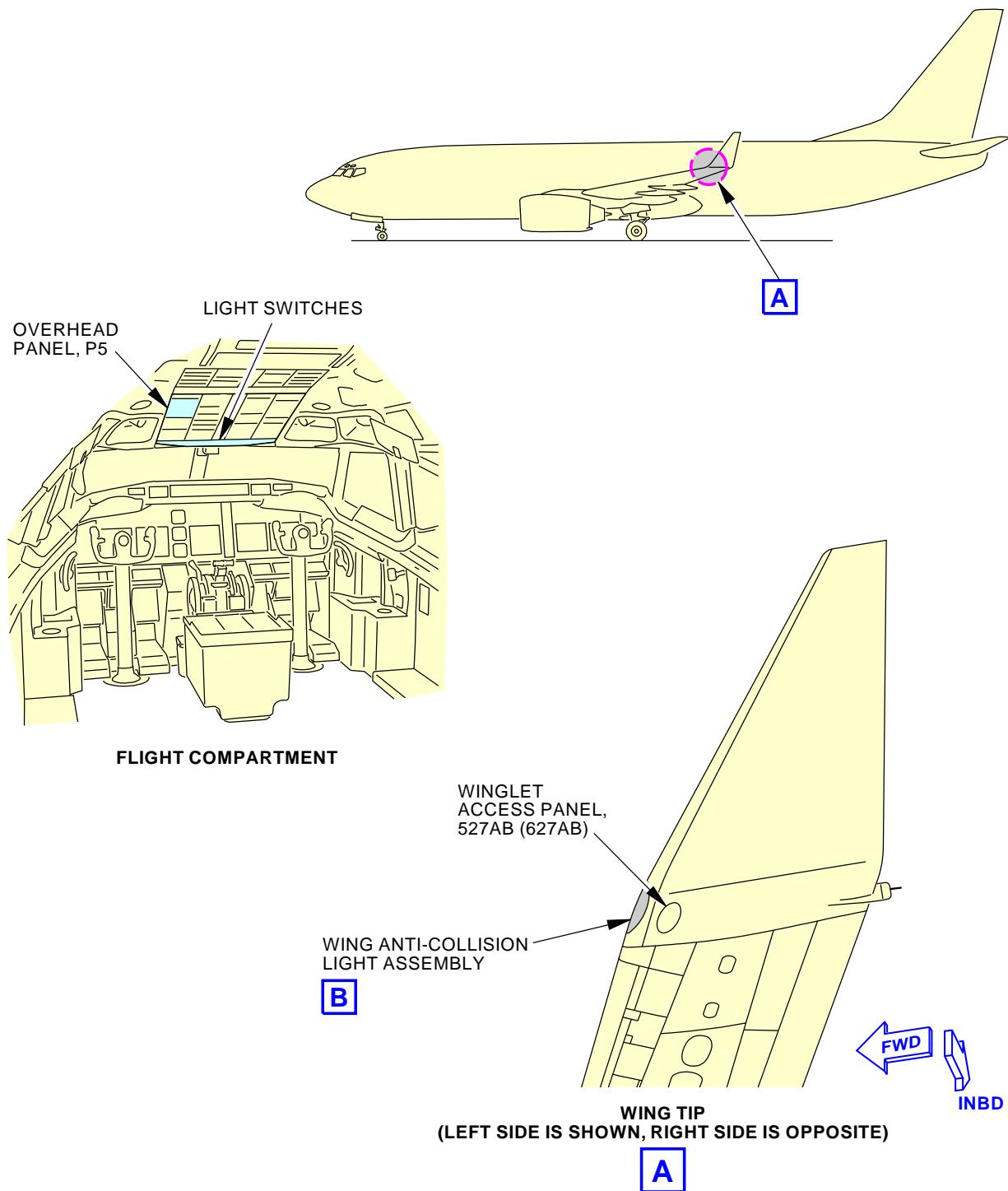
SUBTASK 33-44-13-860-002

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

———— END OF TASK ————

EFFECTIVITY
AKS ALL

33-44-13



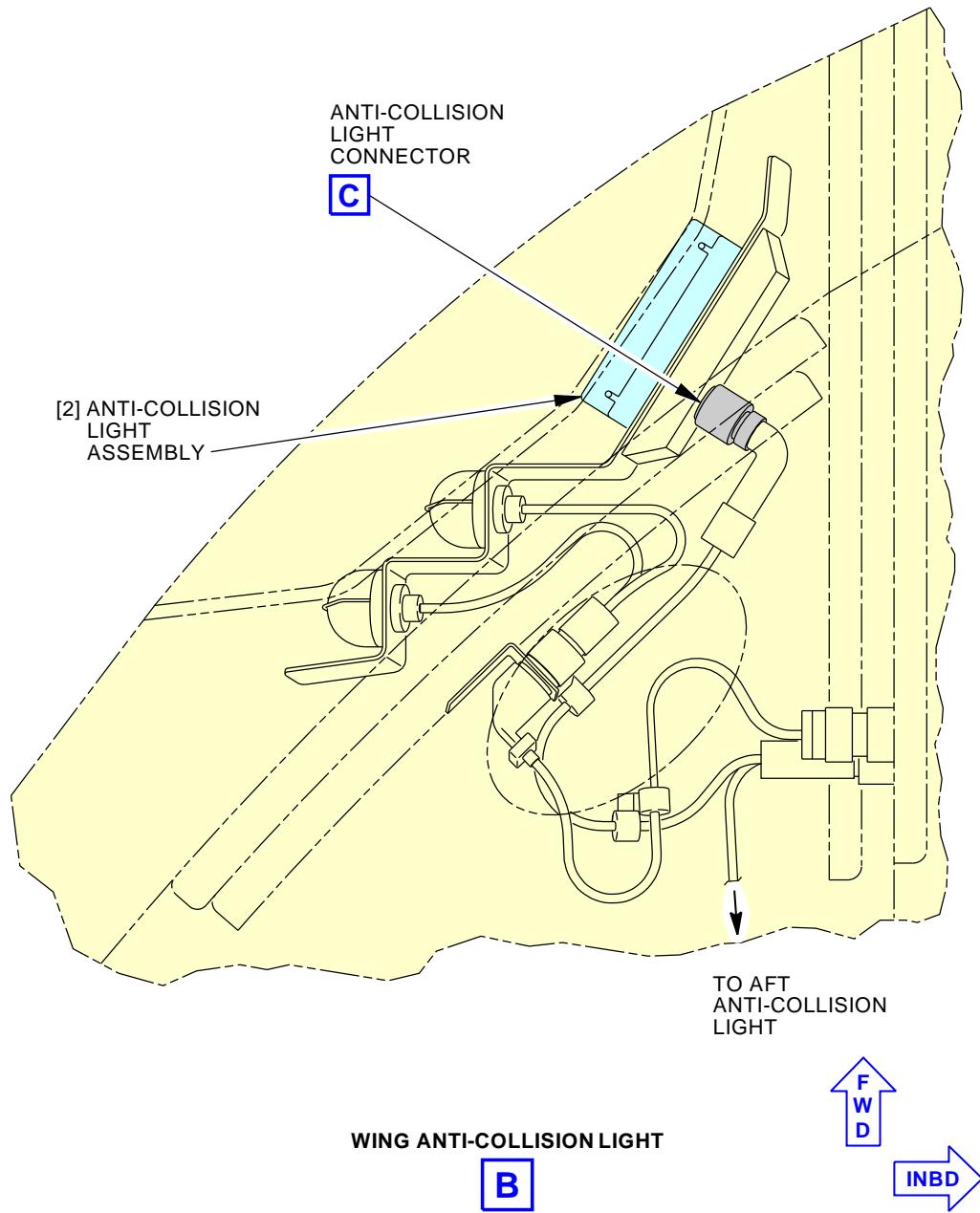
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Wing Anti-Collision Light - Light Assembly Replacement
Figure 201/33-44-13-990-801 (Sheet 1 of 3)

EFFECTIVITY
**AKS ALL; AIRPLANES WITH SINGLE FORWARD
 LENS CONFIGURATION**

33-44-13

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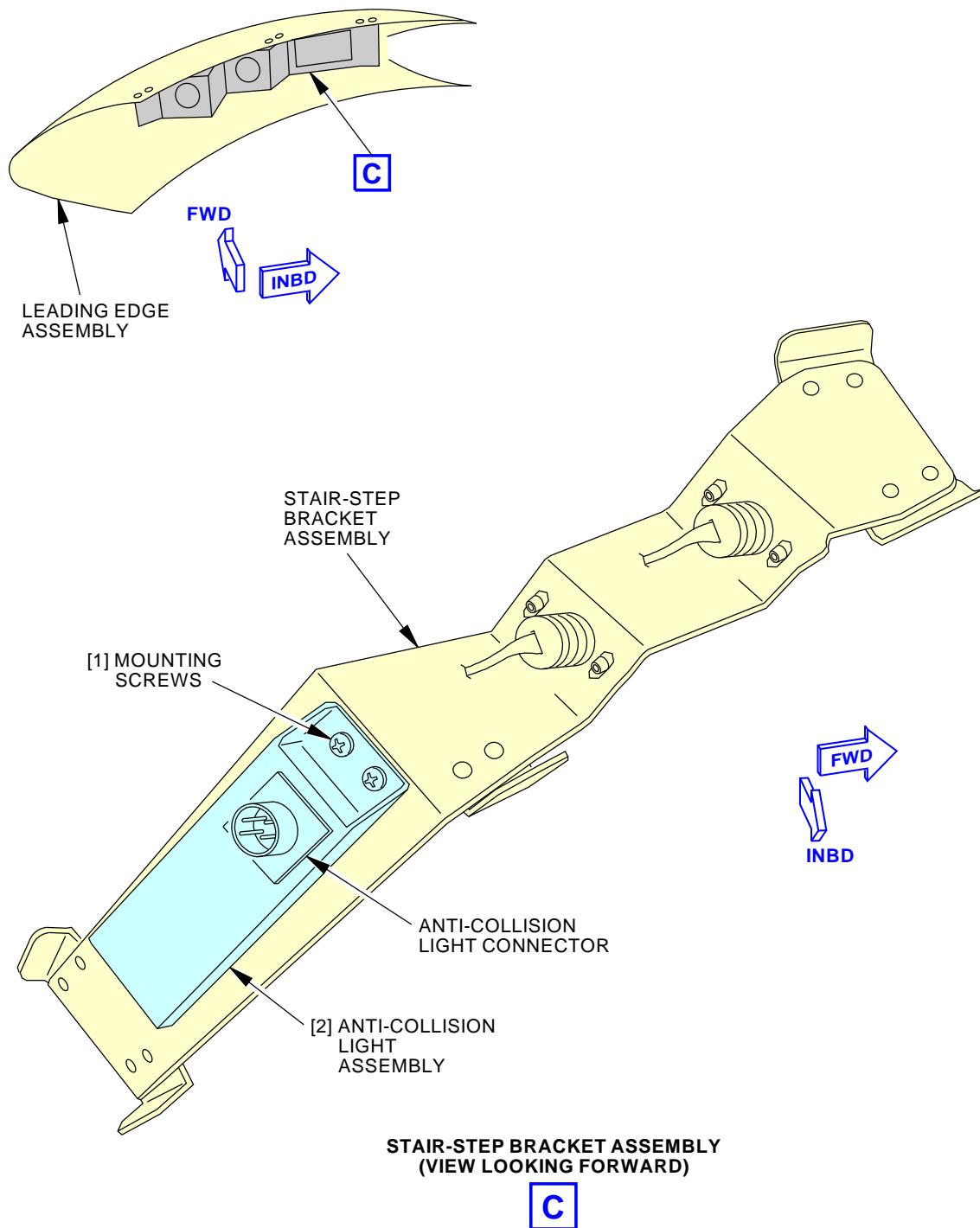
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Wing Anti-Collision Light - Light Assembly Replacement
Figure 201/33-44-13-990-801 (Sheet 2 of 3)

EFFECTIVITY
AKS ALL; AIRPLANES WITH SINGLE FORWARD
LENS CONFIGURATION

33-44-13

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Wing Anti-Collision Light - Light Assembly Replacement
Figure 201/33-44-13-990-801 (Sheet 3 of 3)

EFFECTIVITY
AKS ALL; AIRPLANES WITH SINGLE FORWARD
LENS CONFIGURATION

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AKS ALL; AIRPLANES WITH DUAL FORWARD LENS CONFIGURATION

TASK 33-44-13-960-803

3. Anti-Collision 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)
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)

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 Meters - 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 #: C15292 (MODEL T477W) Supplier: 01014 Part #: M1 Supplier: 3AD17 Opt Part #: M1B Supplier: 3AD17

C. Location Zones

Zone	Area
527	Left Winglet
627	Right Winglet

D. Procedure

SUBTASK 33-44-13-860-011

- (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 33-44-13-020-004

- (2) Remove the anti-collision lens assembly. Do this task: Forward Position Light and Anti-Collision Light Lens (Dual Forward Lens) Removal, TASK 57-21-22-000-803.



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AKS 001

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 light assembly [1]:
 - (a) Loosen the four screws [3] on the anti-collision light assembly [1].
 - (b) Pull the anti-collision light assembly [1] forward.
 - (c) Disconnect electrical connector [2] from the anti-collision light assembly [1].
 - (d) Hold the anti-collision light assembly [1] while you remove the screw [4] and two washers [5] to disconnect the ground wire [6] from the light support.
 - (e) Remove the anti-collision light assembly [1] from the airplane.

AKS 002-999; AIRPLANES WITH LED WINGLET LIGHTS

SUBTASK 33-44-13-420-012

- (4) Do this to remove the anti-collision LED module assembly:
 - (a) Remove the anti-collision LED module assembly. Do this task Wing Anti-Collision Light - LED Module Replacement, TASK 33-44-13-960-805.

AKS 001; AIRPLANES WITHOUT LED WINGLET LIGHTS

SUBTASK 33-44-13-420-002

- (5) Do these steps to install a new anti-collision light assembly [1]:
 - (a) Install the ground wire [6] of a new anti-collision light assembly [1] to the light support with two washers [5] and screw [4].
 - (b) Install the electrical connector [2] to the anti-collision light assembly [1].
 - (c) Install the four screws [3] to attach the anti-collision light assembly [1] to the light support.
 - (d) With the electrical bonding intrinsically safe approved bonding meter, COM-1550, make sure the resistance between the anti-collision light assembly [1] and the light support measures no more than 0.0025 ohms.

AKS 002-999; AIRPLANES WITH LED WINGLET LIGHTS

SUBTASK 33-44-13-420-011

- (6) Do this to install a new anti-collision LED module assembly:
 - (a) Install the anti-collision LED module assembly. Do this task Wing Anti-Collision Light - LED Module Replacement, TASK 33-44-13-960-805.

AKS ALL; AIRPLANES WITH DUAL FORWARD LENS CONFIGURATION

SUBTASK 33-44-13-420-003

- (7) 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

- (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>
B	13	C00115	EXT LIGHTING ANTI COLLISION WHITE

EFFECTIVITY
AKS ALL

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AKS ALL; AIRPLANES WITH DUAL FORWARD LENS CONFIGURATION (Continued)

SUBTASK 33-44-13-860-014

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

SUBTASK 33-44-13-860-012

- (10) Do a test of the new anti-collision light assembly:

- (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 33-44-13-710-004

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

———— END OF TASK ————

EFFECTIVITY
AKS ALL

33-44-13

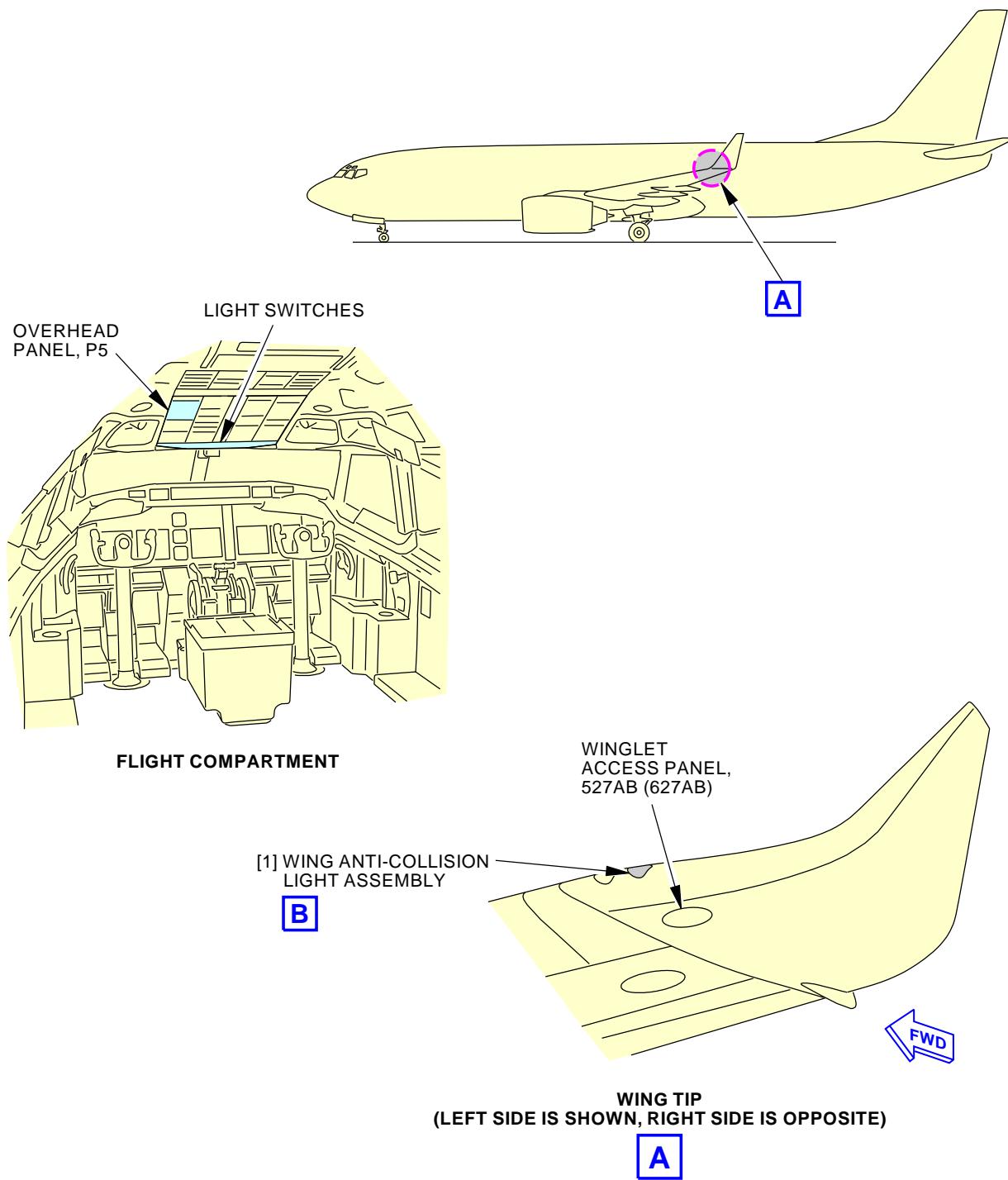
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Wing Anti-Collision Light - Light Assembly Replacement
Figure 202/33-44-13-990-804 (Sheet 1 of 2)

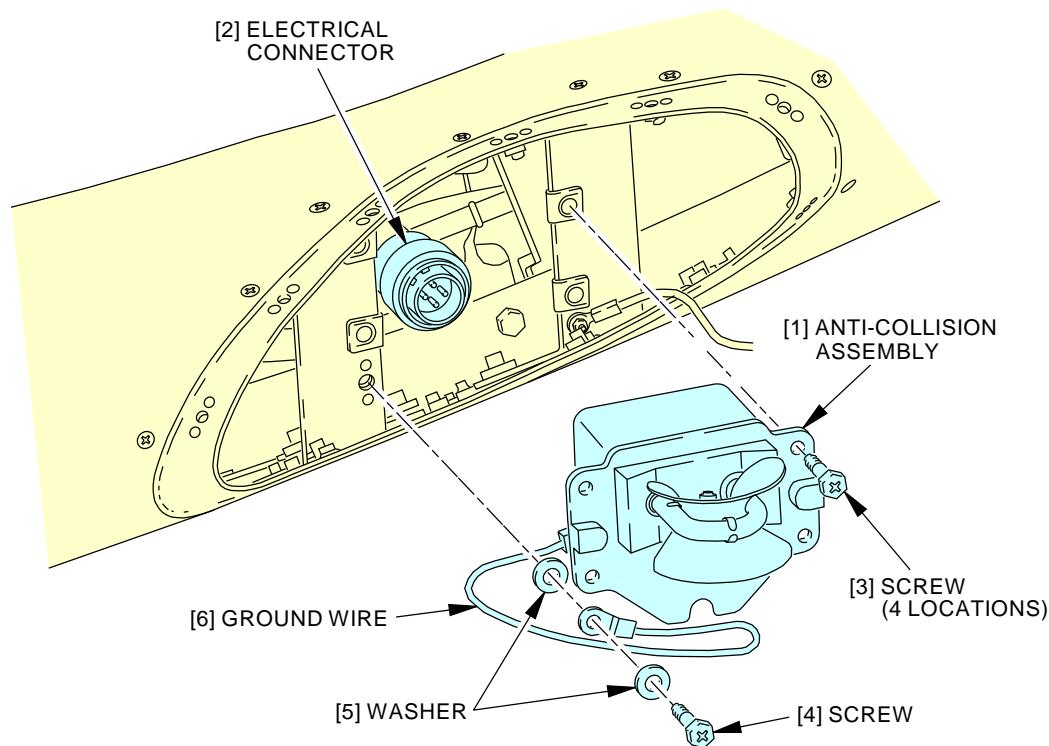
EFFECTIVITY
AKS 001; AIRPLANES WITHOUT LED WINGLET
LIGHTS

33-44-13

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WING ANTI-COLLISION LIGHT ASSEMBLY
(ANTI-COLLISION LENS ASSEMBLY REMOVED)

B

479701 S0000142801_V2

Wing Anti-Collision Light - Light Assembly Replacement
Figure 202/33-44-13-990-804 (Sheet 2 of 2)EFFECTIVITY
AKS 001; AIRPLANES WITHOUT LED WINGLET
LIGHTS

33-44-13



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

AKS ALL

TASK 33-44-13-960-802

4. Anti-collision Light - Power Supply 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)
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 Meters - 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 #: C15292 (MODEL T477W) Supplier: 01014 Part #: M1 Supplier: 3AD17 Opt Part #: M1B Supplier: 3AD17

C. Consumable Materials

Reference	Description	Specification
A50110	Sealant	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	33-44-03-01B-010	AKS ALL

E. Location Zones

Zone	Area
526	Left Wing - Wing Tip
626	Right Wing - Wing Tip

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



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G. Procedure

SUBTASK 33-44-13-860-003

- (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 33-44-13-960-002

WARNING: DO NOT TOUCH THE POWER SUPPLY FOR 10 MINUTES AFTER YOU REMOVE ELECTRICAL POWER. AN ELECTRICAL SHOCK CAN CAUSE INJURY TO PERSONS OR DAMAGE TO EQUIPMENT.

- (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 the new power supply [22].

- a) Make sure the layer of sealant is at the minimum of 0.005 inch thick over the areas.

- 3) Install the new power supply [22].

- (f) Tighten the fasteners [23] to 18 in-lb (2 N·m) - 22 in-lb (2 N·m).

- (g) Make sure the sealant continuously squeezes out along the edges of the bond interfaces.

- (h) If sealant is not squeezed out along the edges, then remove the power supply [22] and apply more sealant, A50155.

- (i) With the electrical bonding intrinsically safe approved bonding meter, COM-1550, make sure the resistance between the power supply and the fuselage measures no more than 0.0025 ohms.

- (j) Connect the electrical connectors [21].

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

EFFECTIVITY
AKS ALL

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SUBTASK 33-44-13-860-004

- (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	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:

- (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 33-44-13-860-006

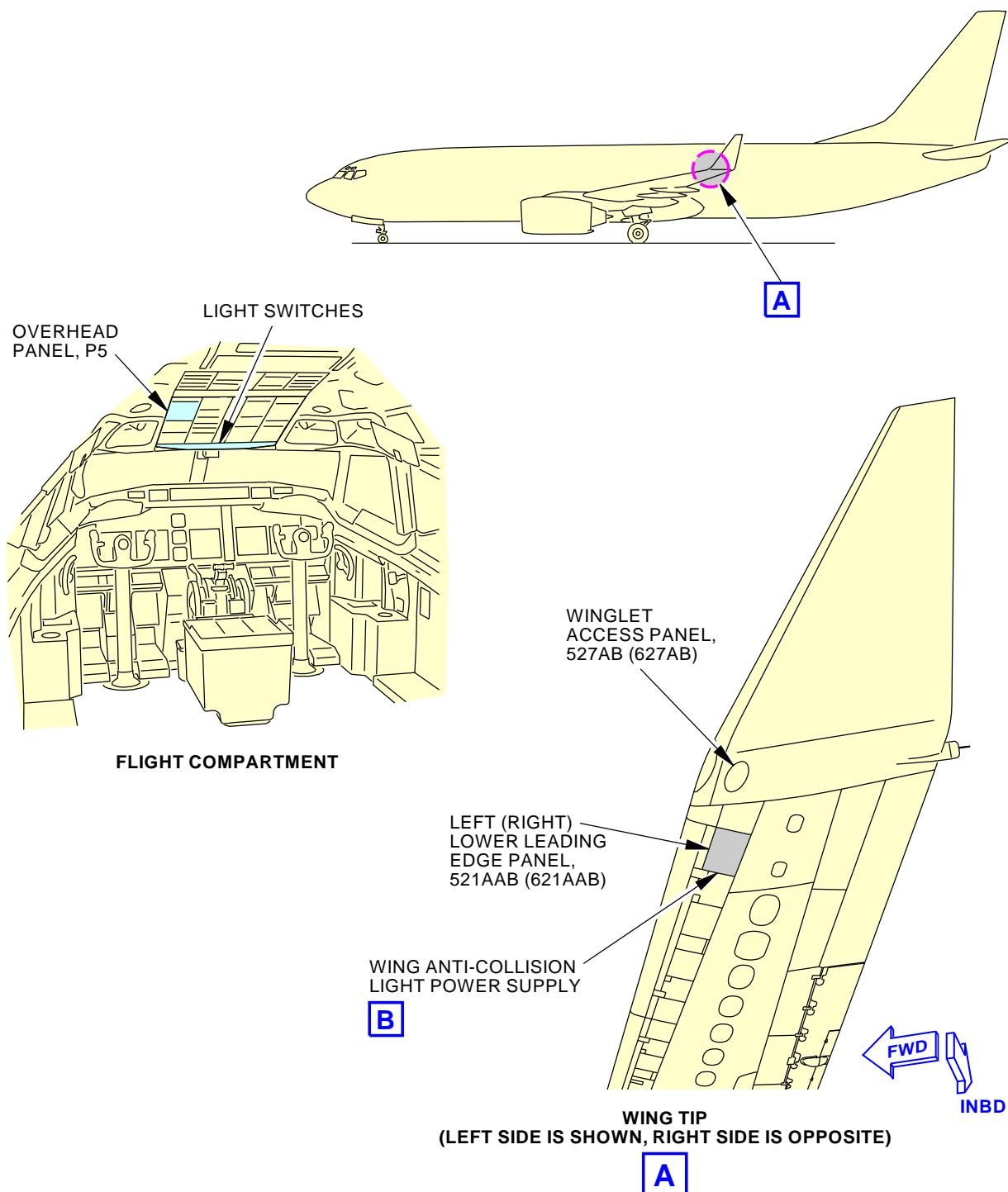
- (6) Do this task: Remove Electrical Power, TASK 24-22-00-860-812.

———— END OF TASK ————

EFFECTIVITY

AKS ALL

33-44-13



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Wing Anti-Collision Light - Power Supply Replacement
Figure 203/33-44-13-990-802 (Sheet 1 of 2)

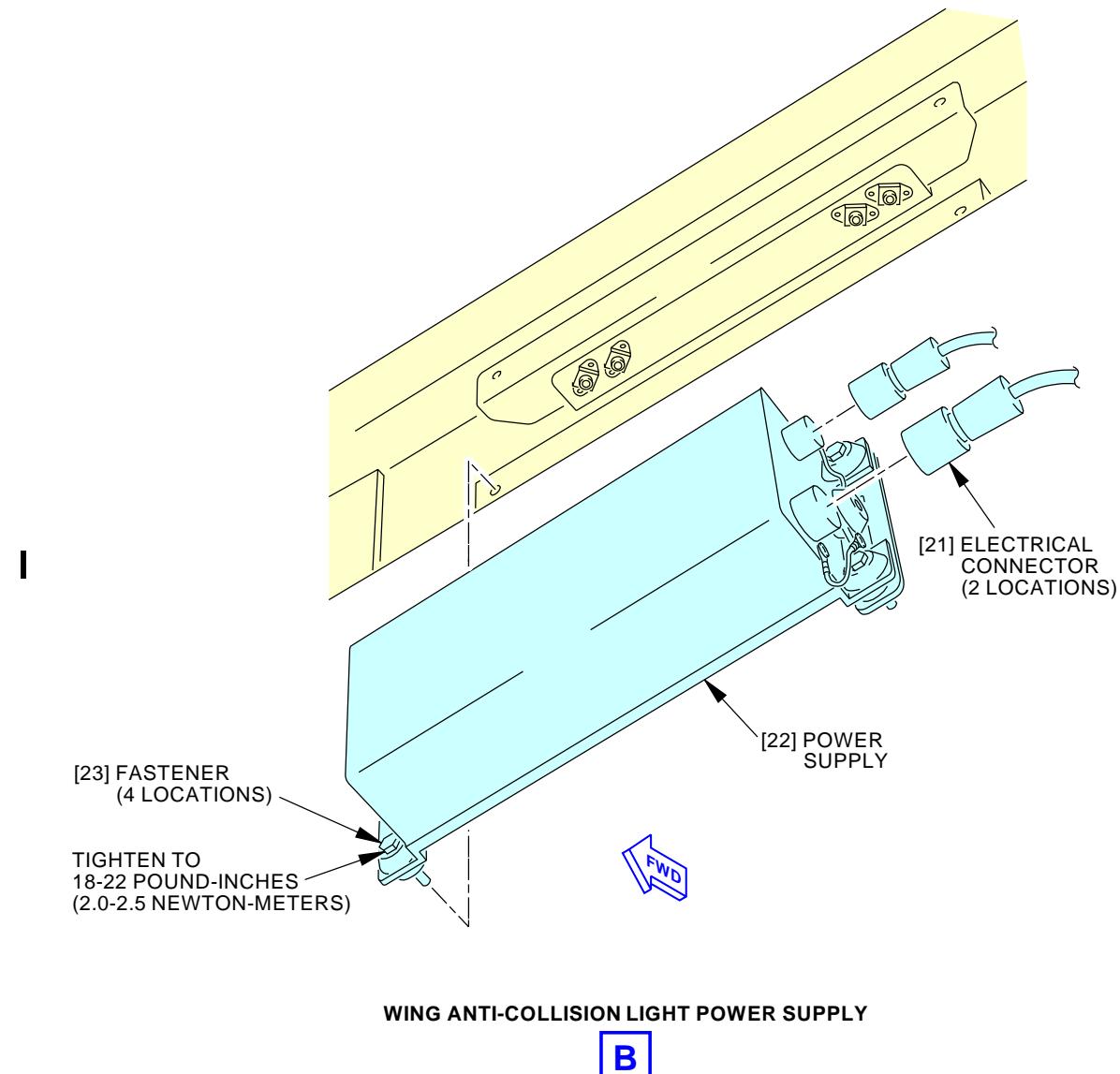
EFFECTIVITY
AKS ALL

33-44-13

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WING ANTI-COLLISION LIGHT POWER SUPPLY

B

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Wing Anti-Collision Light - Power Supply Replacement
Figure 203/33-44-13-990-802 (Sheet 2 of 2)

EFFECTIVITY
AKS ALL

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AKS ALL; AIRPLANES WITH SINGLE FORWARD LENS CONFIGURATION

TASK 33-44-13-020-801

5. Anti-Collision Lights - Disconnect the Electrical Connector

(Figure 204)

A. General

- (1) Use this procedure when it is necessary to remove the winglet.

B. References

Reference	Title
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 33-44-13-860-007

- (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 33-44-13-010-001

- (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. 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).

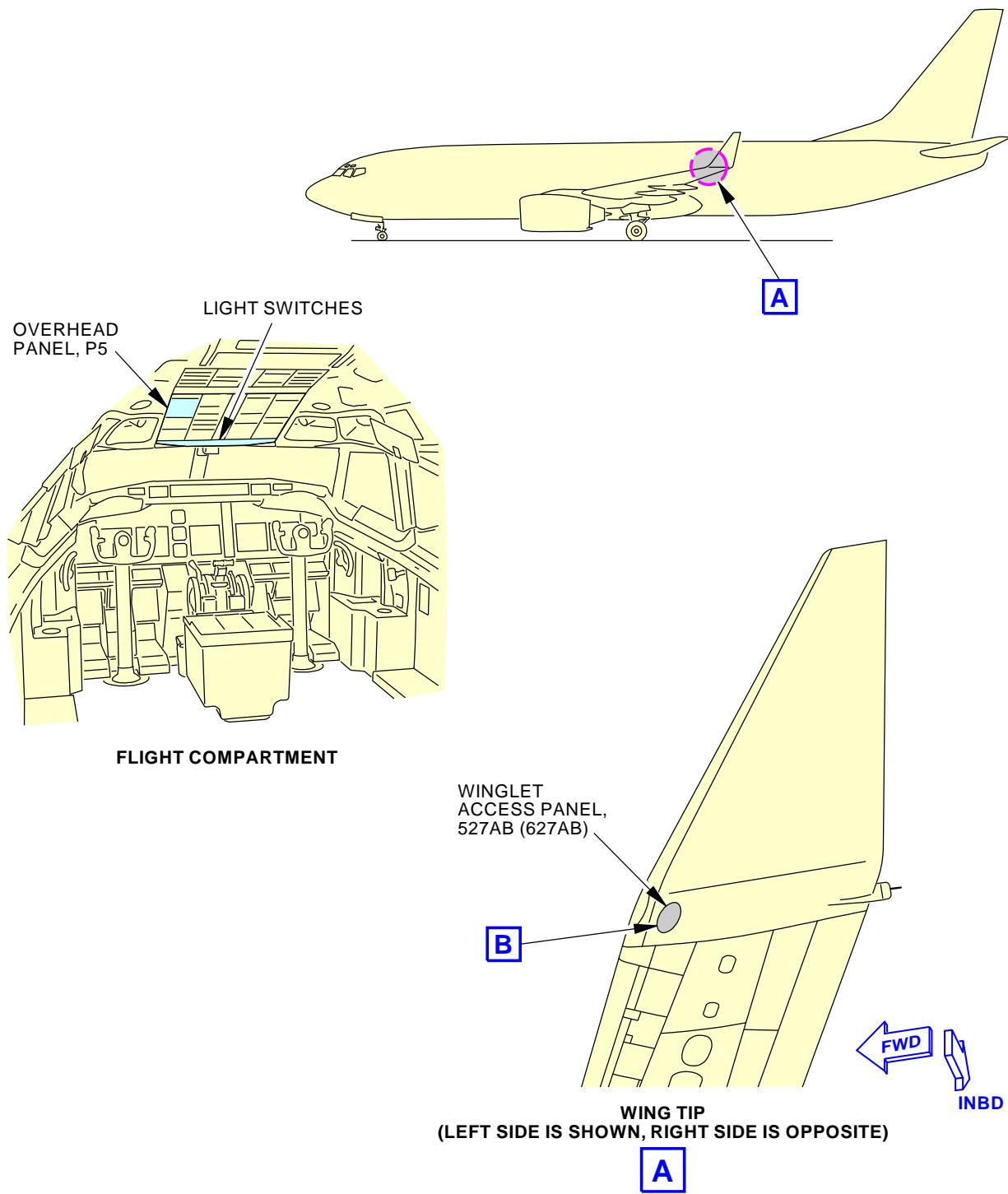
———— END OF TASK ————

EFFECTIVITY
AKS ALL

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Wing Anti-Collision Light - Disconnect/Connect the Electrical Connector
Figure 204/33-44-13-990-803 (Sheet 1 of 2)

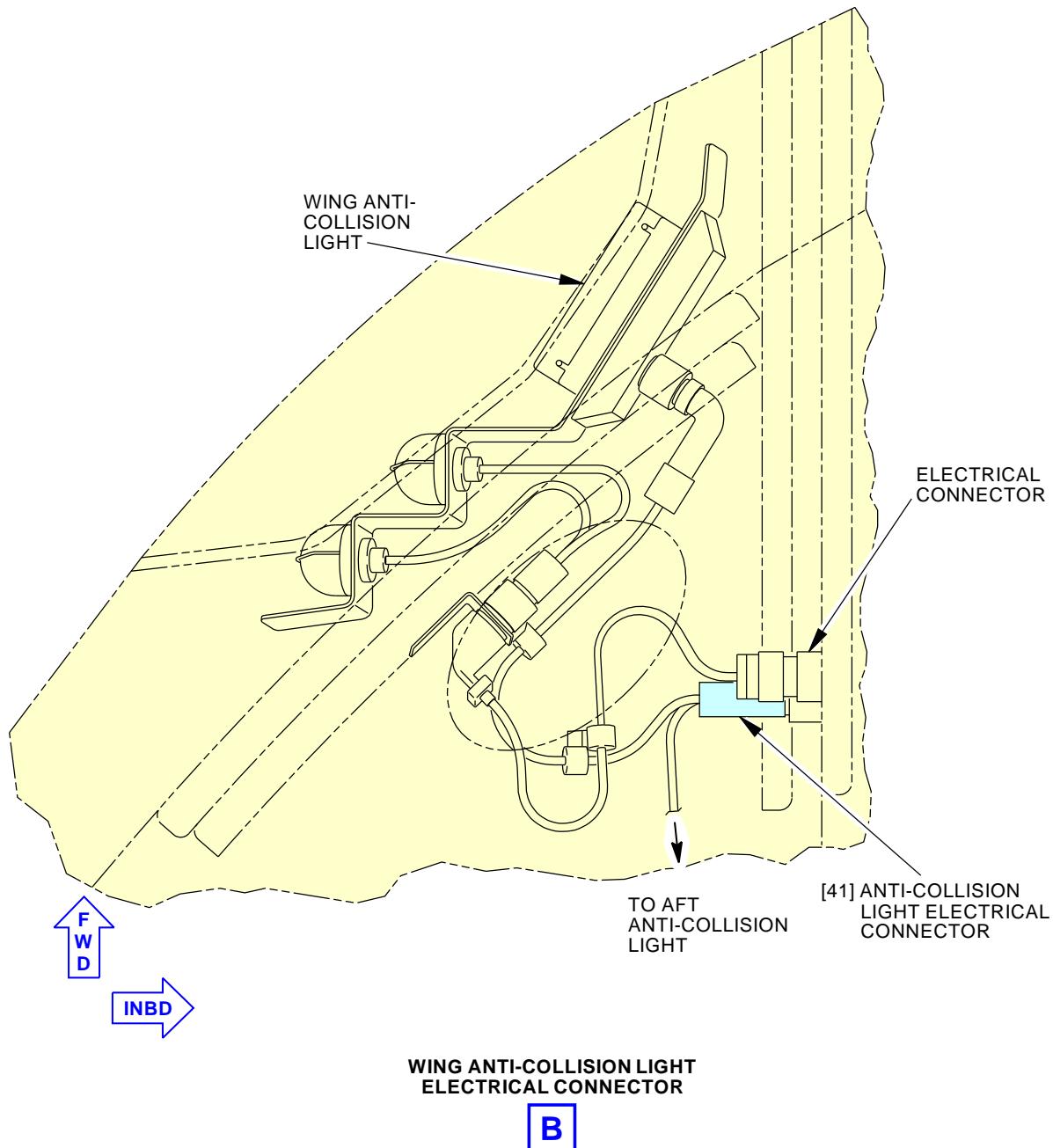
EFFECTIVITY
AKS ALL; AIRPLANES WITH SINGLE FORWARD
LENS CONFIGURATION

33-44-13

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Wing Anti-Collision Light - Disconnect/Connect the Electrical Connector
Figure 204/33-44-13-990-803 (Sheet 2 of 2)

EFFECTIVITY
AKS ALL; AIRPLANES WITH SINGLE FORWARD
LENS CONFIGURATION

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AIRCRAFT MAINTENANCE MANUAL

AKS ALL; AIRPLANES WITH SINGLE FORWARD LENS CONFIGURATION (Continued)

TASK 33-44-13-420-801

6. Anti-Collision Lights - Connect the Electrical Connector

(Figure 204)

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.

EFFECTIVITY
AKS ALL

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AKS ALL; AIRPLANES WITH SINGLE FORWARD LENS CONFIGURATION (Continued)

- 1) Make sure the light goes off.

SUBTASK 33-44-13-860-010

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

— END OF TASK —

AKS 001; AIRPLANES WITH DUAL LENS CONFIGURATION AND WITHOUT LED WINGLET LIGHTS

TASK 33-44-13-960-804

7. Wing Anti-Collision Light - Attenuator Assembly Replacement

(Figure 33-43-11-990-802)

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)
33-43-11-990-802	Figure: Forward Position Light - Lamp Replacement (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. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
4	Attenuator assembly	33-44-13-02-360	AKS 001
		33-44-13-02-365	AKS 001
		33-44-13-02A-550	AKS 001
		33-44-13-02A-555	AKS 001

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 33-44-13-860-015

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

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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AKS 001; AIRPLANES WITH DUAL LENS CONFIGURATION AND WITHOUT LED WINGLET LIGHTS
(Continued)

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.
(c) Do this task: Forward Position Light and Anti-Collision Light Panel (Dual Forward Lens) Removal, TASK 57-21-22-000-806.
(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].
(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].
(g) Do this task: Forward Position Light and Anti-Collision Light Panel (Dual Forward Lens) Installation, TASK 57-21-22-400-806.

SUBTASK 33-44-13-410-003

- (4) Close the applicable access panel:

Number **Name/Location**

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

Row **Col** **Number** **Name**

A	12	C00113	EXTERIOR LIGHTING POSITION RIGHT
A	13	C00114	EXTERIOR LIGHTING POSITION LEFT

EFFECTIVITY
AKS ALL

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AKS 001; AIRPLANES WITH DUAL LENS CONFIGURATION AND WITHOUT LED WINGLET LIGHTS (Continued)

(Continued)

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 33-44-13-860-017

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

SUBTASK 33-44-13-710-005

- (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 33-44-13-710-006

- (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 33-44-13-860-018

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

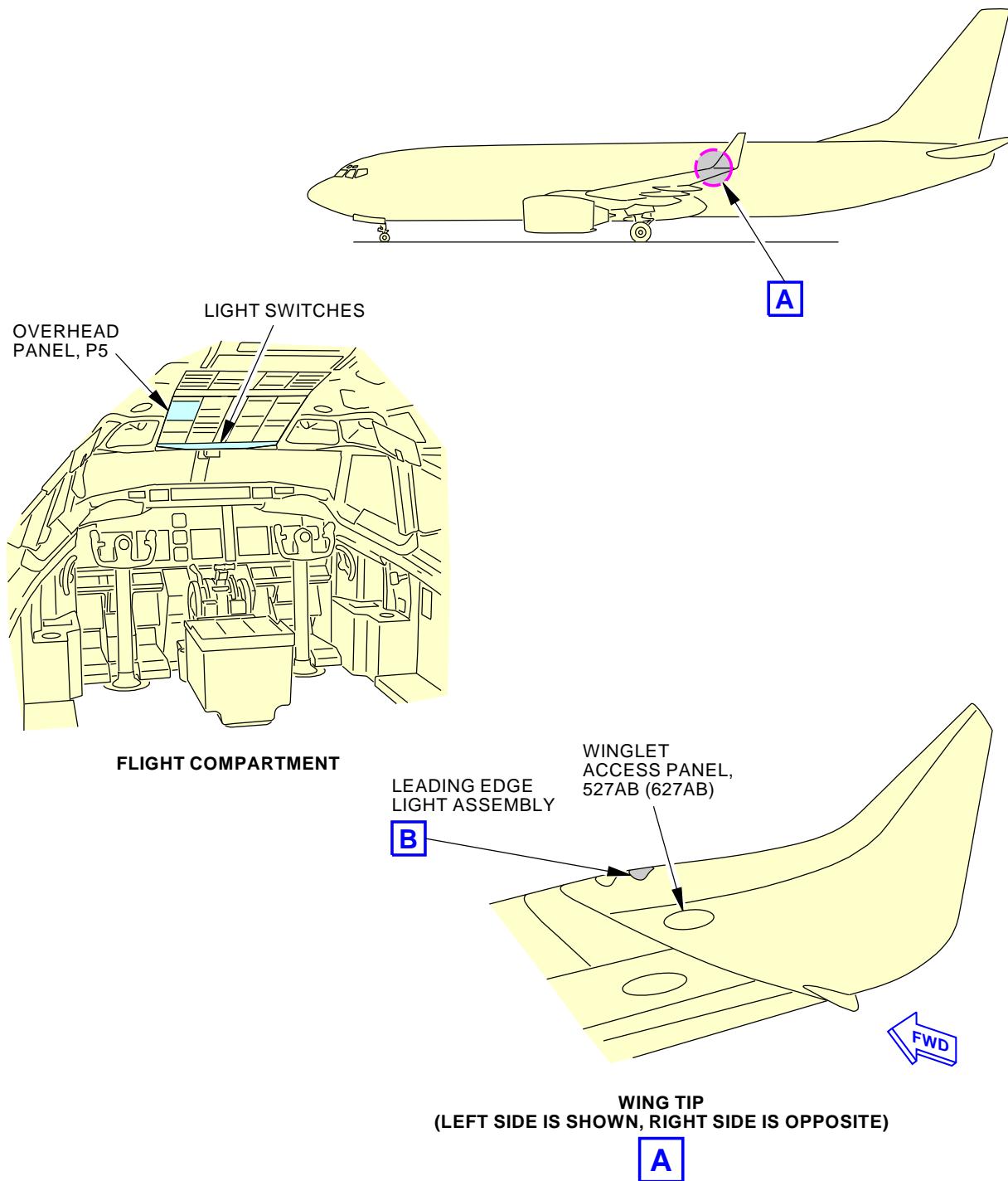
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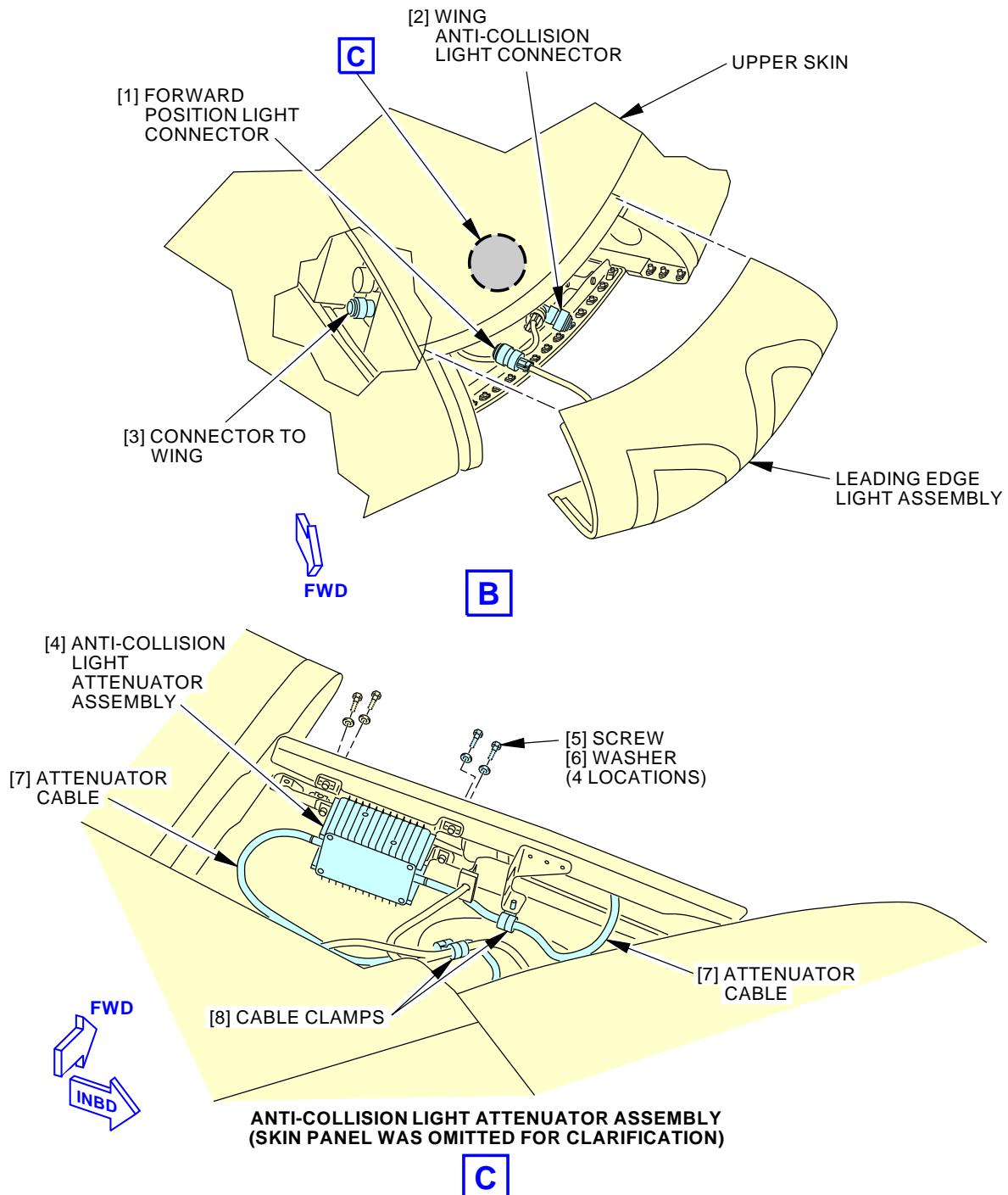


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Wing Anti-Collision Light Attenuator - Replacement
Figure 205/33-44-13-990-805 (Sheet 1 of 2)

EFFECTIVITY
AKS 001; AIRPLANES WITH DUAL LENS
CONFIGURATION AND WITHOUT LED WINGLET
LIGHTS

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Wing Anti-Collision Light Attenuator - Replacement
Figure 205/33-44-13-990-805 (Sheet 2 of 2)

EFFECTIVITY
AKS 001; AIRPLANES WITH DUAL LENS
CONFIGURATION AND WITHOUT LED WINGLET
LIGHTS

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AKS 002-999; AIRPLANES WITH LED WINGLET LIGHTS

TASK 33-44-13-960-806

8. Wing Anti-Collision Light - Stepdown Converter 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)
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 Meters - 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 #: C15292 (MODEL T477W) Supplier: 01014 Part #: M1 Supplier: 3AD17 Opt Part #: M1B Supplier: 3AD17

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:

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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AKS 002-999; AIRPLANES WITH LED WINGLET LIGHTS (Continued)

SUBTASK 33-44-13-020-012

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 stepdown converter [4]:

- (a) Open the applicable access panel:

<u>Number</u>	<u>Name/Location</u>
---------------	----------------------

527AB	Winglet Access Panel
-------	----------------------

627AB	Winglet Access Panel
-------	----------------------

- (b) Disconnect the forward position light connector [1] through the winglet access panel.
(c) Do this task: Forward Position Light and Anti-Collision Light Panel (Dual Forward Lens) Removal, TASK 57-21-22-000-806.
(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] 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].
(h) Do this task: Forward Position Light and Anti-Collision Light Panel (Dual Forward Lens) Installation, TASK 57-21-22-400-806.

SUBTASK 33-44-13-860-030

- (4) Close the applicable access panel:

<u>Number</u>	<u>Name/Location</u>
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527AB	Winglet Access Panel
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627AB	Winglet Access Panel
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EFFECTIVITY
AKS ALL

33-44-13



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AKS 002-999; AIRPLANES WITH LED WINGLET LIGHTS (Continued)

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.

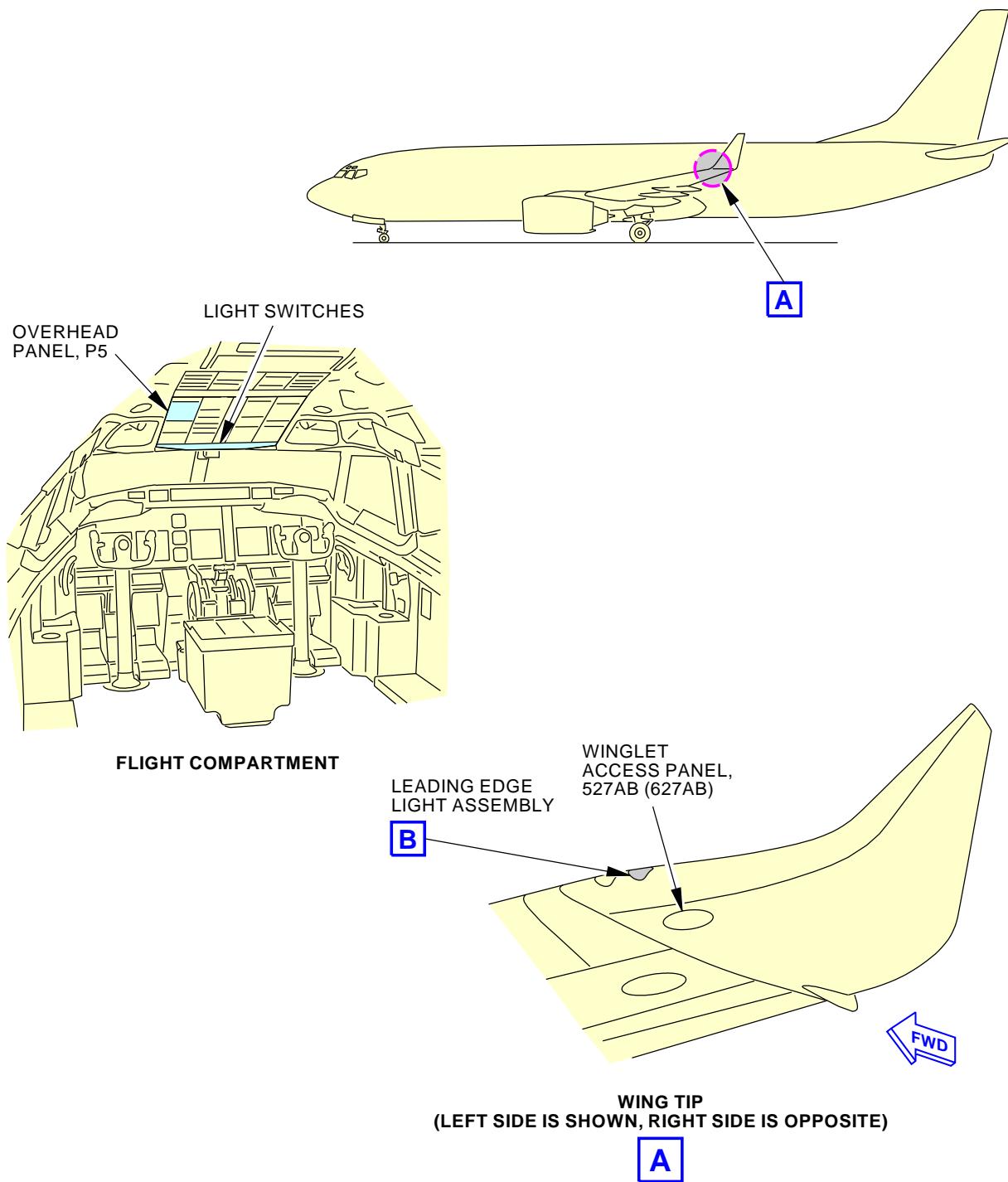
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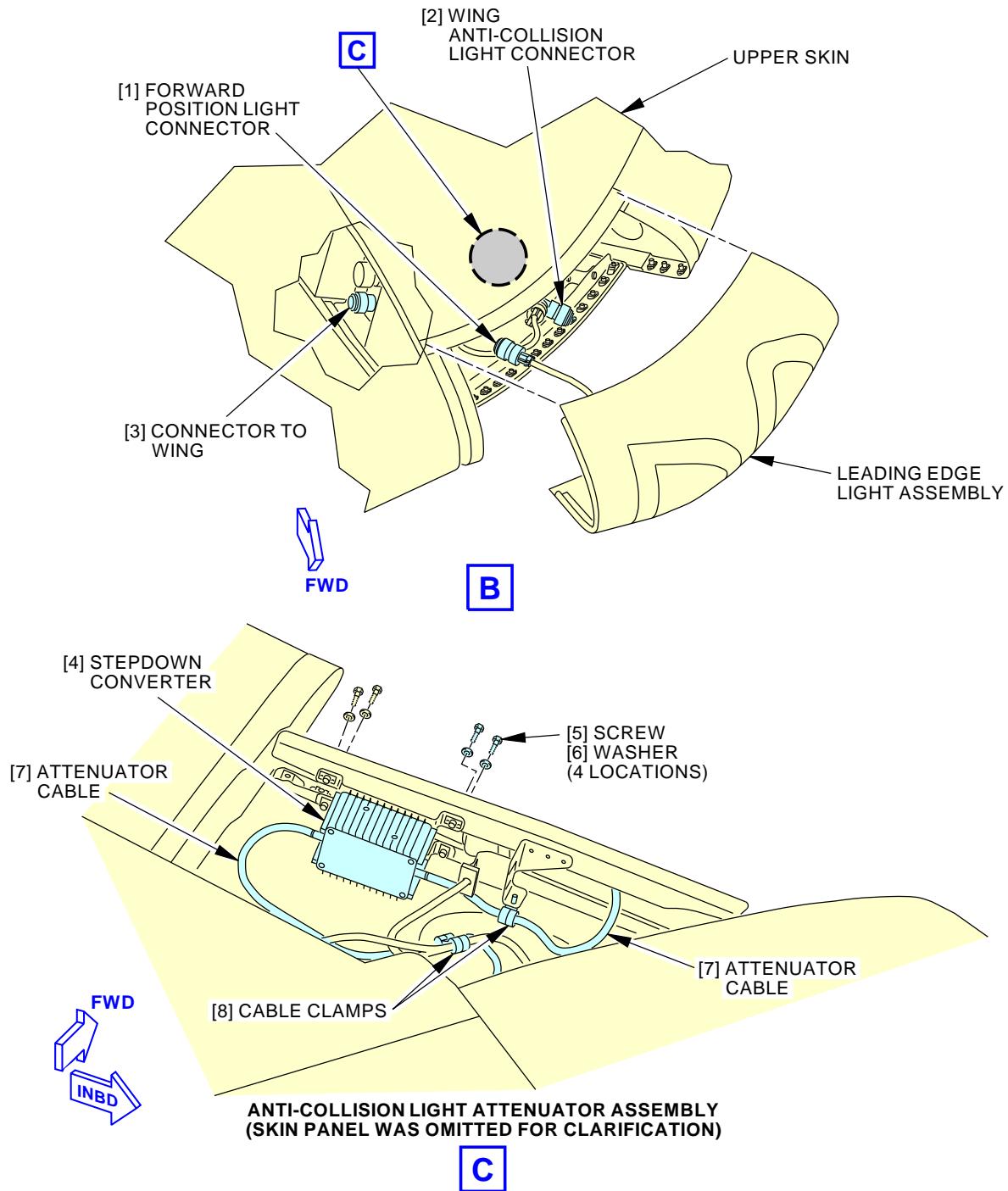
Wing Anti-Collision Light - Stepdown Converter Replacement
Figure 206/33-44-13-990-809 (Sheet 1 of 2)

EFFECTIVITY
AKS 002-999; AIRPLANES WITH LED WINGLET
LIGHTS

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Wing Anti-Collision Light - Stepdown Converter Replacement
Figure 206/33-44-13-990-809 (Sheet 2 of 2)

EFFECTIVITY
AKS 002-999; AIRPLANES WITH LED WINGLET
LIGHTS

33-44-13



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AIRCRAFT MAINTENANCE MANUAL

AKS ALL; AIRPLANES WITH SINGLE FORWARD LENS CONFIGURATION

TASK 33-44-13-900-801

9. Wing Anti-Collision Light - Lamp Replacement

(Figure 207)

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.
- (3) In this procedure, lamp refers to the flashtube assembly given in the vendor manual.

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)

C. Consumable Materials

Reference	Description	Specification
B00074	Solvent - Degreasing	MIL-PRF-680 (Supersedes P-D-680)
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	BMS15-5 Class A
G01306	Gloves - Lint-free	

D. Location Zones

Zone	Area
527	Left Winglet
627	Right Winglet

E. Procedure

SUBTASK 33-44-13-860-019

- (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 33-44-13-020-007

- (2) To remove the anti-collision light assembly, do this task: Anti-Collision Light - Light Assembly Replacement, TASK 33-44-13-960-801 or Anti-Collision Light - Light Assembly Replacement, TASK 33-44-13-960-803.

NOTE: Do only the steps that remove the light assembly.

SUBTASK 33-44-13-020-008

- (3) Do these steps to remove the lamp from the anti-collision light assembly:

- (a) Get access to the rear of the housing to disconnect the electrical wiring:

- 1) Loosen the screws [61] and turn up the mounting plate [62].



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AIRCRAFT MAINTENANCE MANUAL

AKS ALL; AIRPLANES WITH SINGLE FORWARD LENS CONFIGURATION (Continued)

- 2) Move the connectors [63] away from the clips [64].
 - 3) At each connector, quarter turn the two ends of the connector in opposite directions, then pull apart the ends.
- (b) Loosen the screws [69] and lift off the lens assembly [65].
- (c) Loosen the screw [66] and disconnect the lamp wire.
NOTE: This screw is not captive and is difficult to handle because it is very small.
- (d) Loosen the screws [67] that hold the lamp in the housing.
- (e) Pull the lamp [68] out from the front of the housing.

SUBTASK 33-44-13-420-005

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

- NOTE: Do not touch the new lamp with your hands. Use lint-free gloves, G01306.
- (a) Put the lamp [68] in the housing.
 - 1) If the reflector is dirty, clean it with a cotton wiper, G00034 or equivalent, and solvent, B00074 or equivalent.
- (b) Tighten the screws [67] that hold the lamp in the housing.
 - 1) If the mating surfaces are dirty, clean them a cotton wiper, G00034 or equivalent, and solvent, B00074 or equivalent.
NOTE: Clean surfaces are necessary to assure a proper ground for the lamp.
- (c) Connect the lamp wire and tighten the screw [66].
- (d) Put on the lens assembly [65] and tighten the screws [69].
- (e) To connect the electrical wires, do these steps at the rear of the light assembly:
 - 1) Refer to the illustration to make sure you do not change the wire routing.
 - 2) At each connector, put the two ends together and quarter turn them in opposite directions until they lock.
 - 3) Put the connectors [63] in the clips [64].
 - 4) Put the mounting plate [62] on the rear of the housing and tighten the screws [61].

SUBTASK 33-44-13-420-006

- (5) To install the light assembly, do this task: Anti-Collision Light - Light Assembly Replacement, TASK 33-44-13-960-801 or Anti-Collision Light - Light Assembly Replacement, TASK 33-44-13-960-803.

NOTE: Do only the steps that install the light assembly.

SUBTASK 33-44-13-860-020

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

SUBTASK 33-44-13-710-007

- (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.

EFFECTIVITY
AKS ALL

33-44-13



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AIRCRAFT MAINTENANCE MANUAL

AKS ALL; AIRPLANES WITH SINGLE FORWARD LENS CONFIGURATION (Continued)

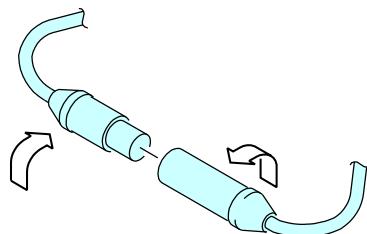
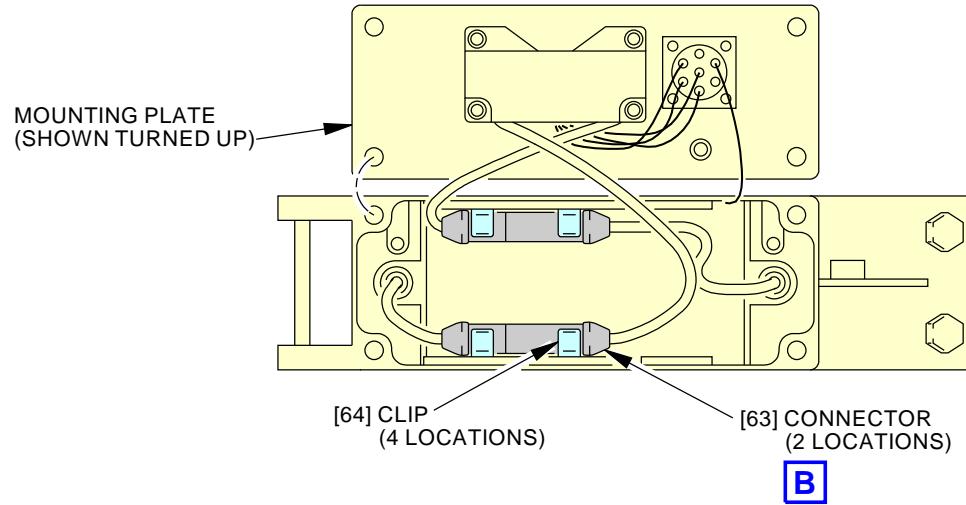
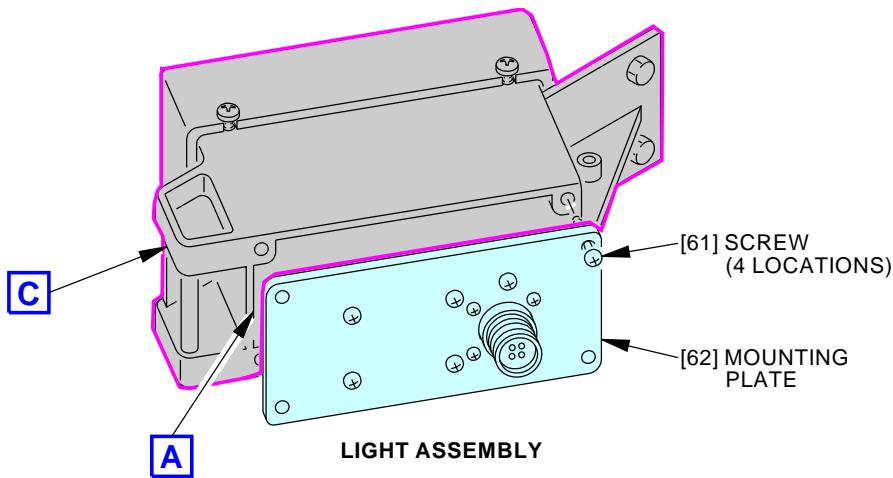
SUBTASK 33-44-13-860-021

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

———— END OF TASK ————

EFFECTIVITY
AKS ALL

33-44-13



VIEW OF LAMP CONNECTORS
FROM THE REAR OF THE HOUSING

A

DISCONNECT AS SHOWN
(EXAMPLE)

B

H88026 S0006576287_V2

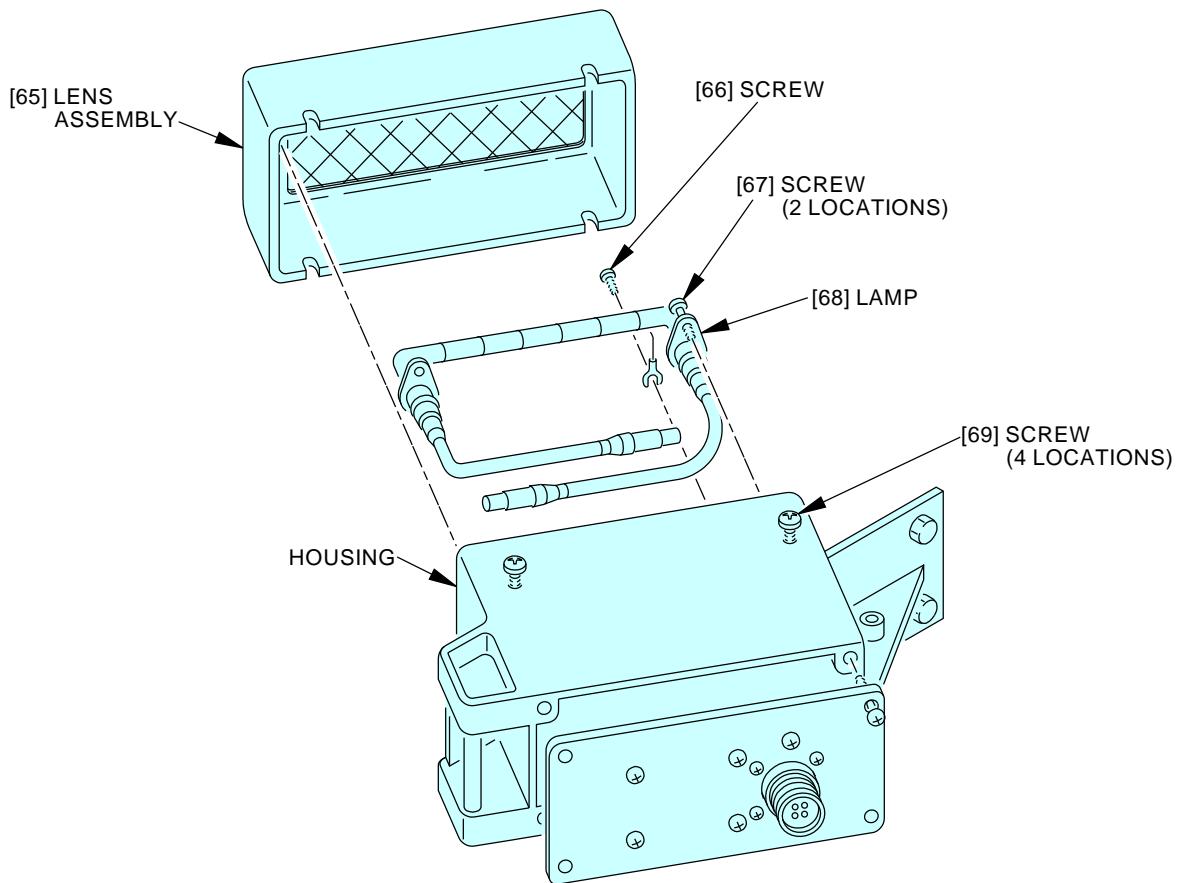
Wing Anti-Collision Light - Lamp Replacement
Figure 207/33-44-13-990-806 (Sheet 1 of 2)

EFFECTIVITY
AKS ALL; AIRPLANES WITH SINGLE FORWARD
LENS CONFIGURATION

33-44-13



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C

H88031 S0006576288_V2

Wing Anti-Collision Light - Lamp Replacement
Figure 207/33-44-13-990-806 (Sheet 2 of 2)

EFFECTIVITY
AKS ALL; AIRPLANES WITH SINGLE FORWARD
LENS CONFIGURATION

33-44-13



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AIRCRAFT MAINTENANCE MANUAL

AKS 001; AIRPLANES WITH DUAL LENS CONFIGURATION AND WITHOUT LED WINGLET LIGHTS

TASK 33-44-13-900-802

10. Wing Anti-collision Light - Lamp Replacement

(Figure 208)

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
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)

C. Consumable Materials

Reference	Description	Specification
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	BMS15-5 Class A
G01306	Gloves - Lint-free	

D. Location Zones

Zone	Area
527	Left Winglet
627	Right Winglet

E. 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

SUBTASK 33-44-13-020-009

- (2) To remove the anti-collision light assembly, do this task: Anti-Collision Light - Light Assembly Replacement, TASK 33-44-13-960-801 or Anti-Collision Light - Light Assembly 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

- (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.

EFFECTIVITY
AKS ALL

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AKS 001; AIRPLANES WITH DUAL LENS CONFIGURATION AND WITHOUT LED WINGLET LIGHTS
(Continued)

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.

- (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.

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.

- (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 Replacement, TASK 33-44-13-960-801 or Anti-Collision Light - Light Assembly Replacement, TASK 33-44-13-960-803.

NOTE: Do only the steps that install the anti-collision light assembly.

SUBTASK 33-44-13-860-023

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

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.

SUBTASK 33-44-13-860-024

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

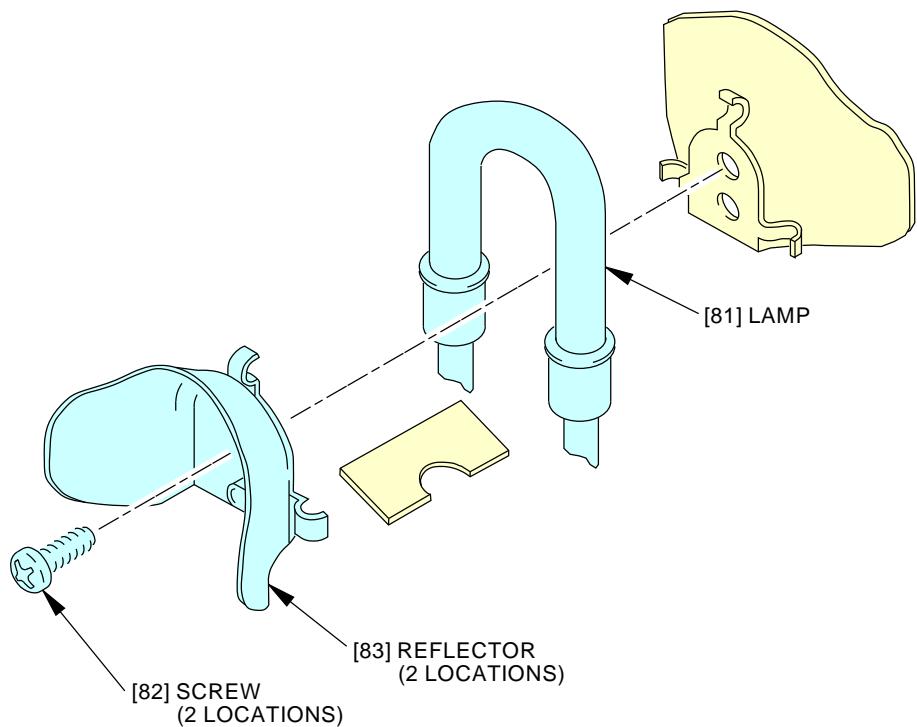
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EFFECTIVITY
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WING ANTI-COLLISION LAMP ASSEMBLY

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Wing Anti-Collision Light - Lamp Replacement
Figure 208/33-44-13-990-807

EFFECTIVITY
AKS 001; AIRPLANES WITH DUAL LENS
CONFIGURATION AND WITHOUT LED WINGLET
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AKS 002-999; AIRPLANES WITH LED WINGLET LIGHTS

TASK 33-44-13-960-805

11. Wing Anti-Collision Light - LED Module Replacement

(Figure 209)

A. General

- (1) This procedure contains instructions for the replacement of the LED modules installed on the wing anti-collision light.

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)
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

Reference	Description	Specification
G01306	Gloves - Lint-free	

D. Location Zones

Zone	Area
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

Row	Col	Number	Name
B	13	C00115	EXT LIGHTING ANTI COLLISION WHITE

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.

SUBTASK 33-44-13-960-003

- (3) Do these steps to replace the LED module [91]:

- (a) Remove the four screws [96] that attach the LED module [91] to the bracket.
- (b) Pull the LED module [91] forward and disconnect the connector [95].
- (c) Replace the LED module [91].
- (d) Connect the connector [95].

EFFECTIVITY _____

AKS ALL

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AKS 002-999; 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].

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.

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.

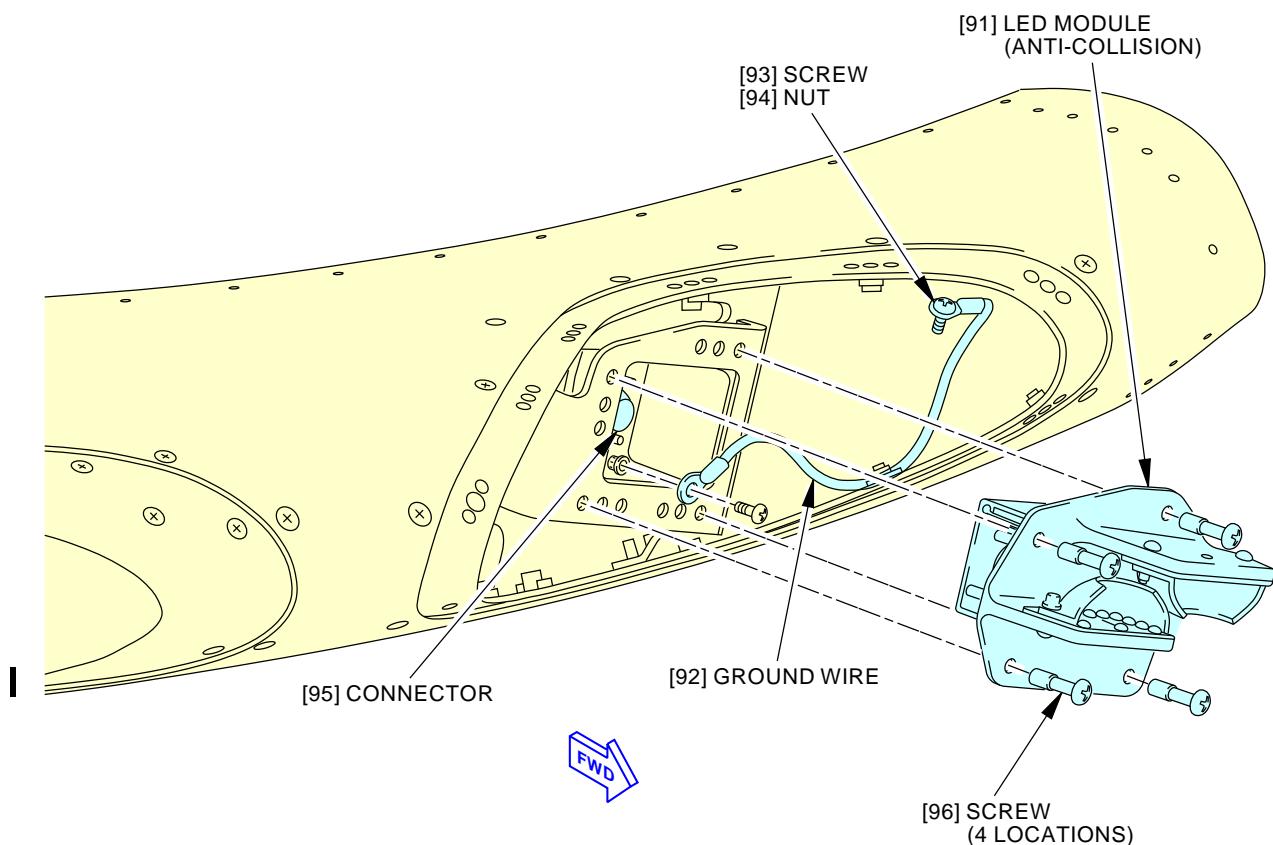
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33-44-13



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AIRCRAFT MAINTENANCE MANUAL



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Wing Anti-Collision Light - LED Module Replacement
Figure 209/33-44-13-990-808

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AKS 002-999; AIRPLANES WITH LED WINGLET
LIGHTS

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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) Taxi Light - Lamp Replacement.
 - (4) Taxi Light Housing Assembly - Removal.
 - (5) Taxi Light Housing Assembly - Installation.
 - (6) Nose Landing Gear Taxi Light Lens - Temporary Repair

TASK 33-45-01-040-801

2. Taxi Light - Deactivation

(Figure 201)

A. General

- (1) This procedure 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. Procedure

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.

SUBTASK 33-45-01-860-011

- (1) Make sure the downlock pins are installed on the nose and main landing gear (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 the Taxi Light is in a zero energy state.

SUBTASK 33-45-01-700-001

- (1) At the overhead panel, P5, set the taxi light switch to the ON mode.
 - (a) Make sure the taxi light does not come on.

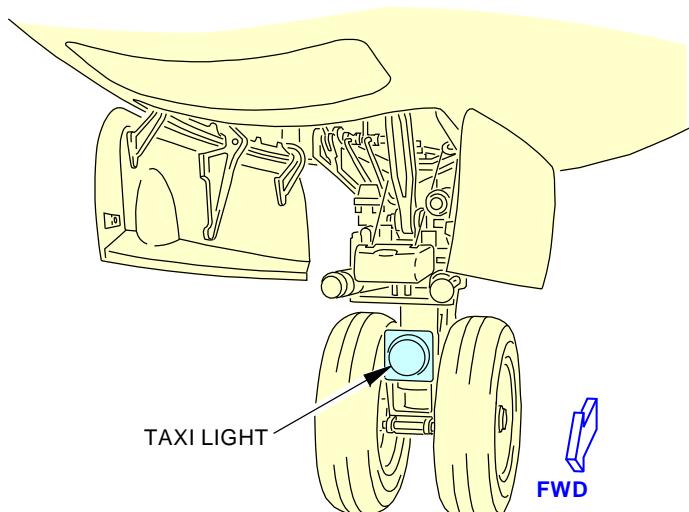
———— END OF TASK ————

EFFECTIVITY
AKS 001-017

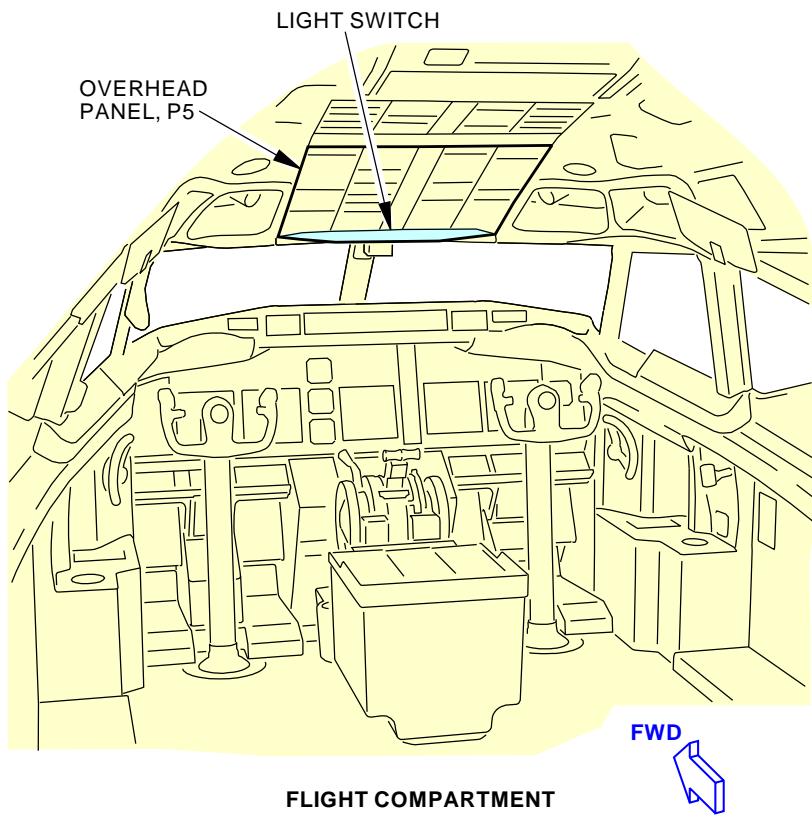
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AIRCRAFT MAINTENANCE MANUAL



NOSE LANDING GEAR



FLIGHT COMPARTMENT

2387508 S0000544898_V1

Taxi Light
Figure 201/33-45-01-990-804

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33-45-01

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AIRCRAFT MAINTENANCE MANUAL

TASK 33-45-01-440-801

3. Taxi Light - Activation

(Figure 201)

A. General

- (1) This procedure 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. Procedure

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
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
32-00-01-480-801	Landing Gear Downlock Pins Installation (P/B 201)

B. Consumable Materials

Reference	Description	Specification
G02186	Seal - Closed Cell Silicone Foam Rubber, Hydraulic Fluid Resistant	BMS1-68 Form III

C. Location Zones

Zone	Area
713	Nose Landing Gear

D. Procedure

SUBTASK 33-45-01-860-001

WARNING: MAKE SURE THE DOWNLOCK PINS ARE INSTALLED ON ALL THE LANDING GEAR. WITHOUT THE DOWNLOCK PINS, THE LANDING GEAR COULD RETRACT AND CAUSE INJURIES TO PERSONS AND DAMAGE TO EQUIPMENT.

- (1) Make sure the downlock pins are installed on the nose and main landing gear (Landing Gear Downlock Pins Installation, TASK 32-00-01-480-801).

EFFECTIVITY _____

AKS 001-017

33-45-01



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AIRCRAFT MAINTENANCE MANUAL

SUBTASK 33-45-01-860-002

- (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>
D	14	C00123	EXT LIGHTING NOSE GEAR TAXI

SUBTASK 33-45-01-960-001

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

- (a) Remove the screws [1] and the retainer assembly [2].
- (b) Pull out the lamp [6].
- (c) Disconnect the electrical wires [5] from the terminals [3] behind the lamp.
 - 1) Remove all dirt and corrosion from the ends of the electrical wires.
- (d) Examine the pads [4] on the housing.
 - 1) If one of the pads [4] is damaged, replace it.
- (e) Connect the electrical wires [5] to the new lamp [6].
- (f) Make sure that the gasket [7] and gasket [28] in the retainer assembly [2] are not damaged.

NOTE: Gaskets can become hard and have cracks when soaked in heat.

- 1) If gaskets are damaged, then replace the retainer assembly [2].

NOTE: Retainer assembly [2] contains the gasket [7] and gasket [28].

- 2) If gaskets are damaged and new retainer assembly [2] is not available for replacement, do these steps to install a temporary gasket around the new lamp:
 - a) Use seal, G02186 as a gasket to wind it completely around the edge of the new lamp 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 to fit in the retainer, being careful not to cover too much of the front of the lamp.

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] and lamp [6] against the housing.
 - 1) Make sure that the lamp filament is horizontal.
- (h) Install the screws [1].

SUBTASK 33-45-01-860-003

- (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 33-45-01-860-004

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

EFFECTIVITY
AKS 001-017

33-45-01



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AIRCRAFT MAINTENANCE MANUAL

SUBTASK 33-45-01-710-001

- (6) Do a test of the new lamp.
 - (a) At the overhead panel, P5, set the switch for the taxi light to the on mode.
 - 1) Make sure the new lamp comes on.
 - (b) Set the switch to the off mode.
 - 1) Make sure the lamp goes off.

SUBTASK 33-45-01-860-005

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

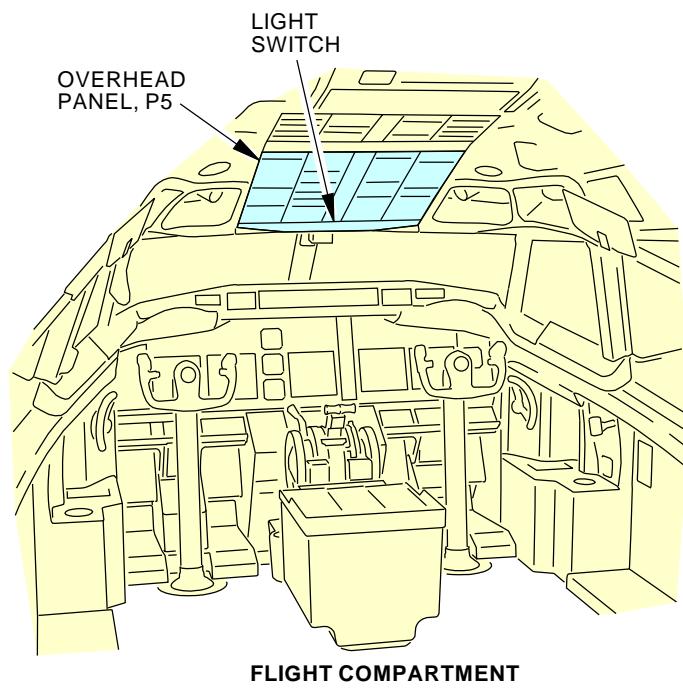
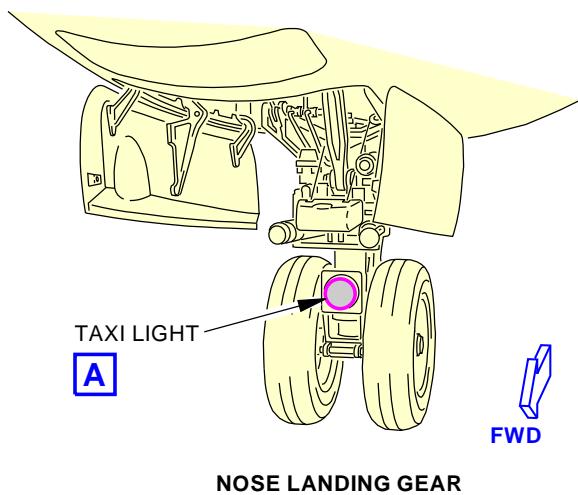
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EFFECTIVITY
AKS 001-017

33-45-01



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



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Taxi Light - Lamp Replacement
Figure 202/33-45-01-990-801 (Sheet 1 of 2)

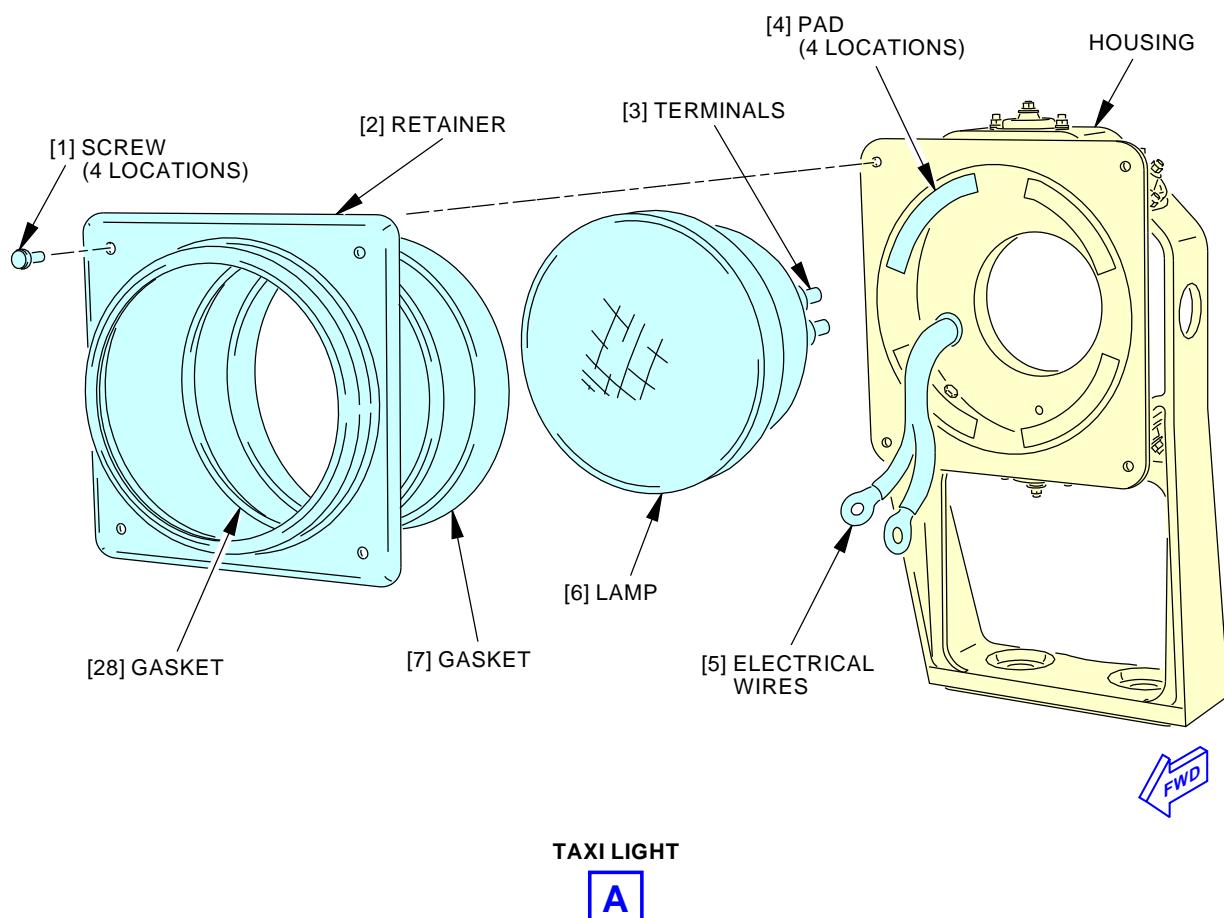
EFFECTIVITY
AKS 001-017

33-45-01

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Taxi Light - Lamp Replacement
Figure 202/33-45-01-990-801 (Sheet 2 of 2)

EFFECTIVITY
AKS 001-017

33-45-01

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AIRCRAFT MAINTENANCE MANUAL

TASK 33-45-01-000-801

5. Taxi Light Housing Assembly - Removal

Figure 203

A. References

Reference	Title
32-00-01-480-801	Landing Gear Downlock Pins Installation (P/B 201)

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
4	Pad	33-45-01-04-135	AKS 001-017

C. Location Zones

Zone	Area
713	Nose Landing Gear

D. Procedure

SUBTASK 33-45-01-860-006

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) Do this task if the downlock pins are not installed on the nose and main landing gear:(Landing Gear Downlock Pins Installation, TASK 32-00-01-480-801).

SUBTASK 33-45-01-860-007

- (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

SUBTASK 33-45-01-020-001

- (3) Do the steps that follow to remove the taxi light housing assembly:

- (a) Remove the screws [1] and the retainer [2].

NOTE: Keep the hardware for installation.

- (b) Pull out the lamp [6].

- (c) Examine the pads [4] on the housing.

- 1) If one of the pads [4] is damaged, replace it.

- (d) Disconnect the electrical wires [5] from the 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.

SUBTASK 33-45-01-020-002

- (4) Disconnect and remove the light wire harness [8] from the light housing assembly [9] and inner cylinder as follows:

- (a) Remove the lockwire [10] from the wire harness backshell [11].

- (b) Loosen the wire harness backshell [11] from the housing through fitting [12].

- (c) Pull the wires from the taxi light housing assembly [9].

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- (d) Remove the screw [13], washers [14], nut [15] and clamp [16] from the light housing assembly [9].
NOTE: Keep hardware for installation.
- (e) Remove the nut [24] and washer [25] to disconnect the clamp from the inner cylinder.
NOTE: Keep hardware for installation.

SUBTASK 33-45-01-020-003

- (5) Remove the bolts [17], washer [18], washer [19], and nuts [20] from the light housing assembly, tow fitting and inner cylinder.

NOTE: Keep the hardware for installation.

- (a) Remove the taxi light housing assembly [9] and shim [22].
- (b) Examine the shim [22] for damage.
 - 1) If damaged, replace the shim [22].

———— END OF TASK ————

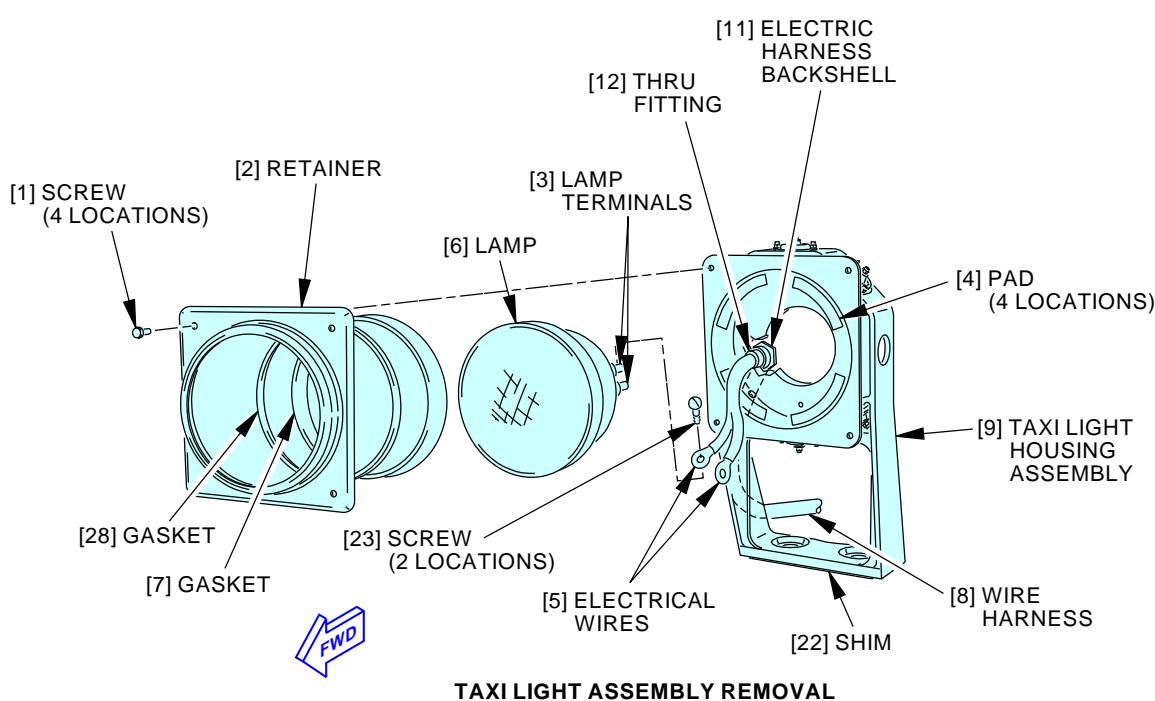
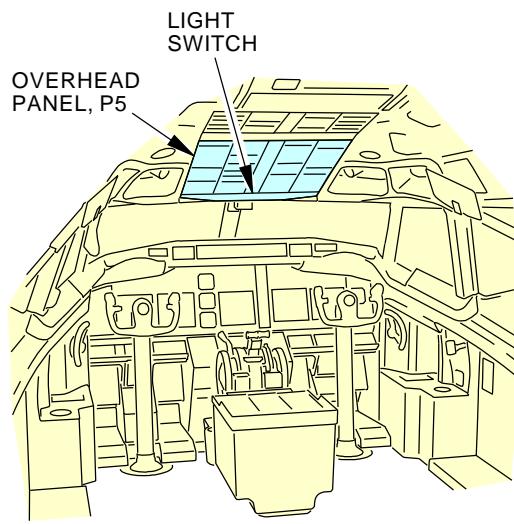
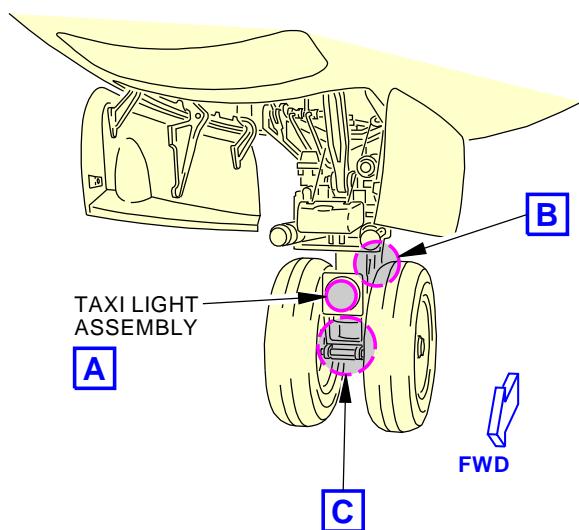
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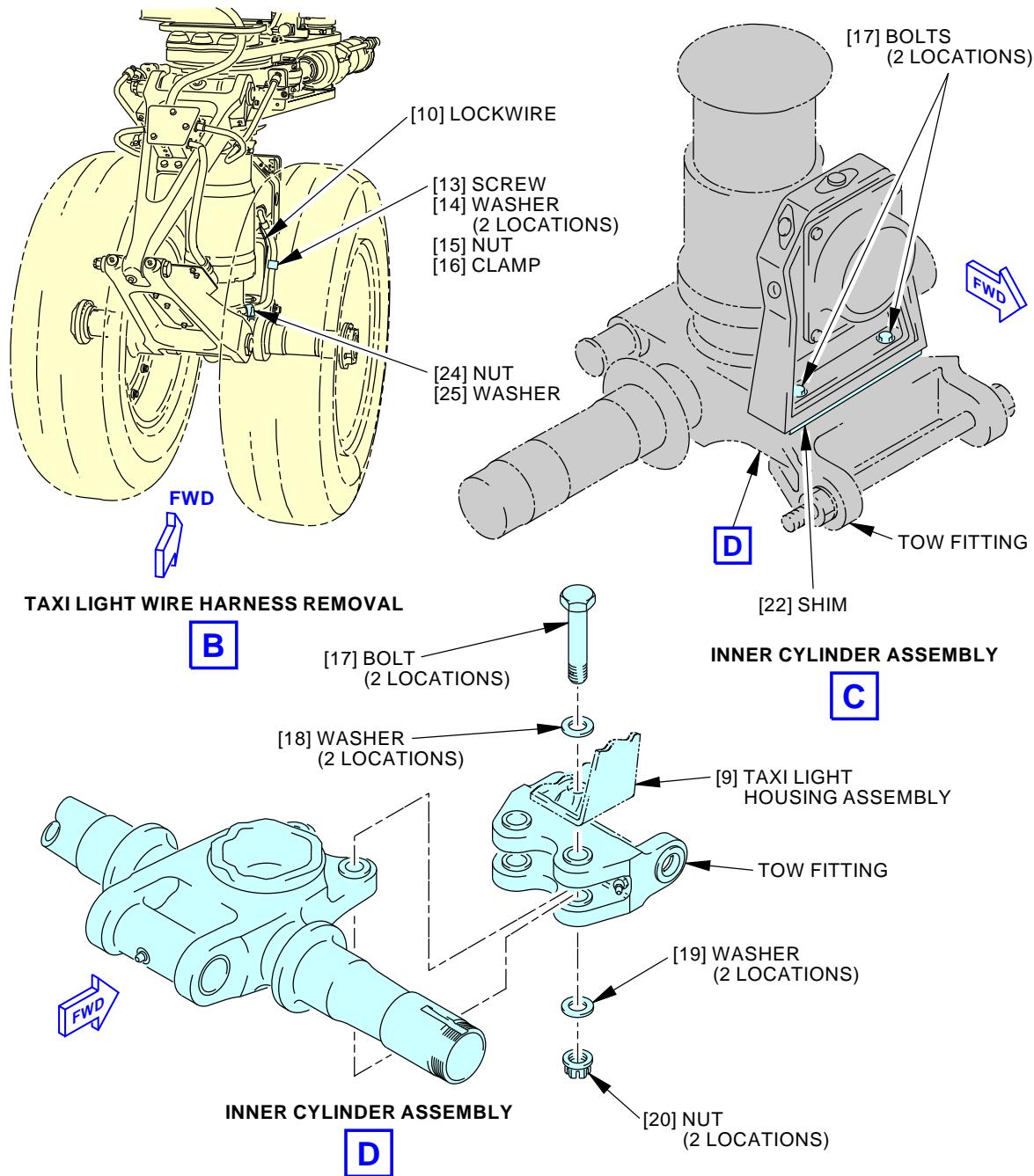
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**Taxi Light Housing Assembly - Installation
Figure 203/33-45-01-990-802 (Sheet 1 of 2)**

EFFECTIVITY
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33-45-01



D31312 S0000149833_V4

**Taxi Light Housing Assembly - Installation
Figure 203/33-45-01-990-802 (Sheet 2 of 2)**

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AIRCRAFT MAINTENANCE MANUAL

TASK 33-45-01-400-801

6. Taxi Light Housing Assembly - Installation

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
G02186	Seal - Closed Cell Silicone Foam Rubber, Hydraulic Fluid Resistant	BMS1-68 Form III

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
6	Lamp	33-45-01-04-040	AKS 001-017
7	Gasket	33-45-01-04-030	AKS 001-017
9	Light housing assembly	33-45-01-04-010	AKS 001-017
28	Gasket	33-45-01-04-025	AKS 001-017

D. Prepare for installation

SUBTASK 33-45-01-420-001

- (1) Do the steps that follow to install the taxi light housing assembly:
 - (a) Align the taxi light housing assembly [9] and shim [22] with inner cylinder and tow fitting.
 - (b) Install the bolts [17], washer [18], washer [19] and nuts [20].
 - (c) Tighten the nuts [20] to within the torque range of 250 in-lb (28 N·m) - 300 in-lb (34 N·m) above the run on torque.
 - (d) Install the clamp to inner cylinder with nut [24] and washer [25].
 - (e) Install the wire harness [8] with clamp [16], screw [13], washers [14] and nut [15] to the light housing assembly [9].
 - (f) Pull the harness wires [5] through the light housing assembly [9].
 - (g) Attach the harness backshell [11] to the housing through fitting [12].
 - (h) Install the lockwire [10] from the harness backshell [11] to the head of screw [13].

SUBTASK 33-45-01-420-002

- (2) Do the steps that follow to install the taxi light:
 - (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 when soaked in heat.
 - (c) If gaskets are damaged, replace the retainer [2] assembly.
NOTE: retainer [2] assembly contains the gasket [7] and gasket [28].
 - (d) If gaskets are damaged and a new retainer [2] assembly is not available for replacement, do these steps to install a temporary gasket around the new lamp:



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- 1) Use seal, G02186 as a gasket to wind it completely around the edge of the new lamp without stretching the material.

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.

NOTE: Do not cover too much surface area on the front of the lamp.

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.

- (e) Align the retainer [2] and lamp [6] against the light housing assembly [9].
- (f) Install the screws [1].

SUBTASK 33-45-01-860-009

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

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	14	C00123	EXT LIGHTING NOSE GEAR TAXI

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

SUBTASK 33-45-01-710-002

- (4) Do a test of the taxi light as follows:

- (a) At the overhead panel P5, set the switch for the taxi 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.

SUBTASK 33-45-01-860-008

- (5) Do this task If electrical power is not necessary Remove Electrical Power, TASK 24-22-00-860-812

———— END OF TASK ————

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.

B. References

Reference	Title
WDM 33-45-11	Wiring Diagram Manual

C. Consumable Materials

Reference	Description	Specification
G50228	Tape - 3M 436 Vibration Damping Tape (Formerly 3M Y436)	

D. Location Zones

Zone	Area
713	Nose Landing Gear

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E. Procedure

SUBTASK 33-45-01-350-001

- (1) Apply two layers of 3M 436 Tape, G50228 over the cracked light lens.

SUBTASK 33-45-01-860-010

- (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>
D	12	C01518	EXTERIOR LIGHTING GENERAL LIGHT CONT
D	14	C00123	EXT LIGHTING NOSE GEAR TAXI

SUBTASK 33-45-01-840-001

- (3) Replace the nose gear taxi light at the next destination where manpower and facilities are available.

———— END OF TASK ————

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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.

AKS 001-017

- (3) Runway Turnoff Light - Lamp Replacement.

AKS 018-999

- (4) Runway Turnoff Light - Light Assembly Replacement.

AKS 001-017

- (5) Runway Turnoff Light - Light Beam Adjustment.

AKS 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

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 33-45-02-860-017

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

CAPT Electrical System Panel, P18-3

Row **Col** **Number** **Name**

AKS 018-999

B	14	C01968	EXTERIOR LIGHTING LTRTL - RIGHT
B	15	C01969	EXTERIOR LIGHTING LTRTL - LEFT

AKS 001-017

C	12	C00245	EXT LIGHTING RUNWAY TURNOFF RIGHT
C	13	C00244	EXTERIOR LIGHTING RUNWAY TURNOFF LEFT

AKS ALL

D	12	C01518	EXTERIOR LIGHTING GENERAL LIGHT CONT
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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
AKS ALL

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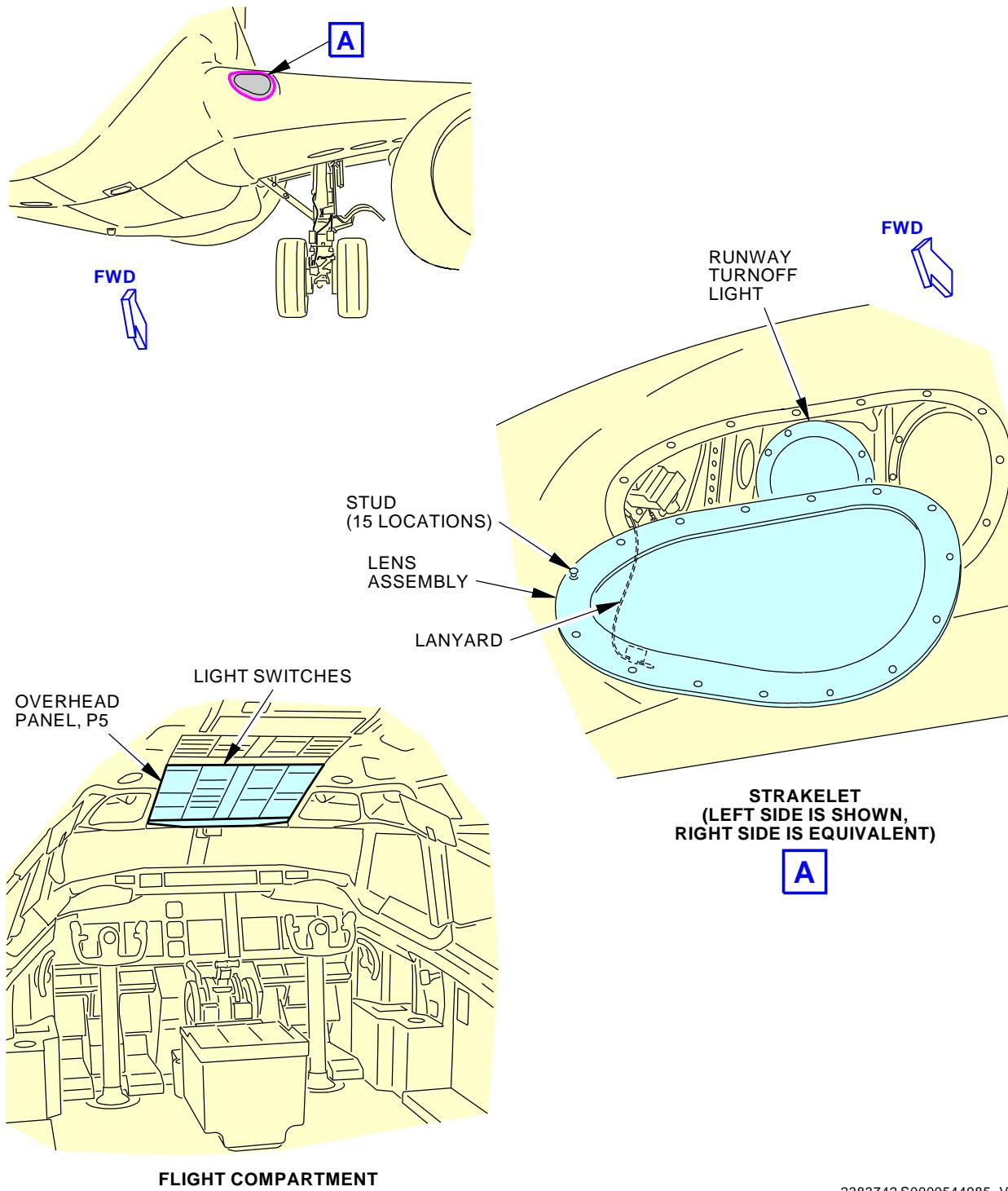
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- (a) Make sure none of the runway turnoff lights come on.

———— END OF TASK ——

———— EFFECTIVITY ——
AKS ALL

33-45-02



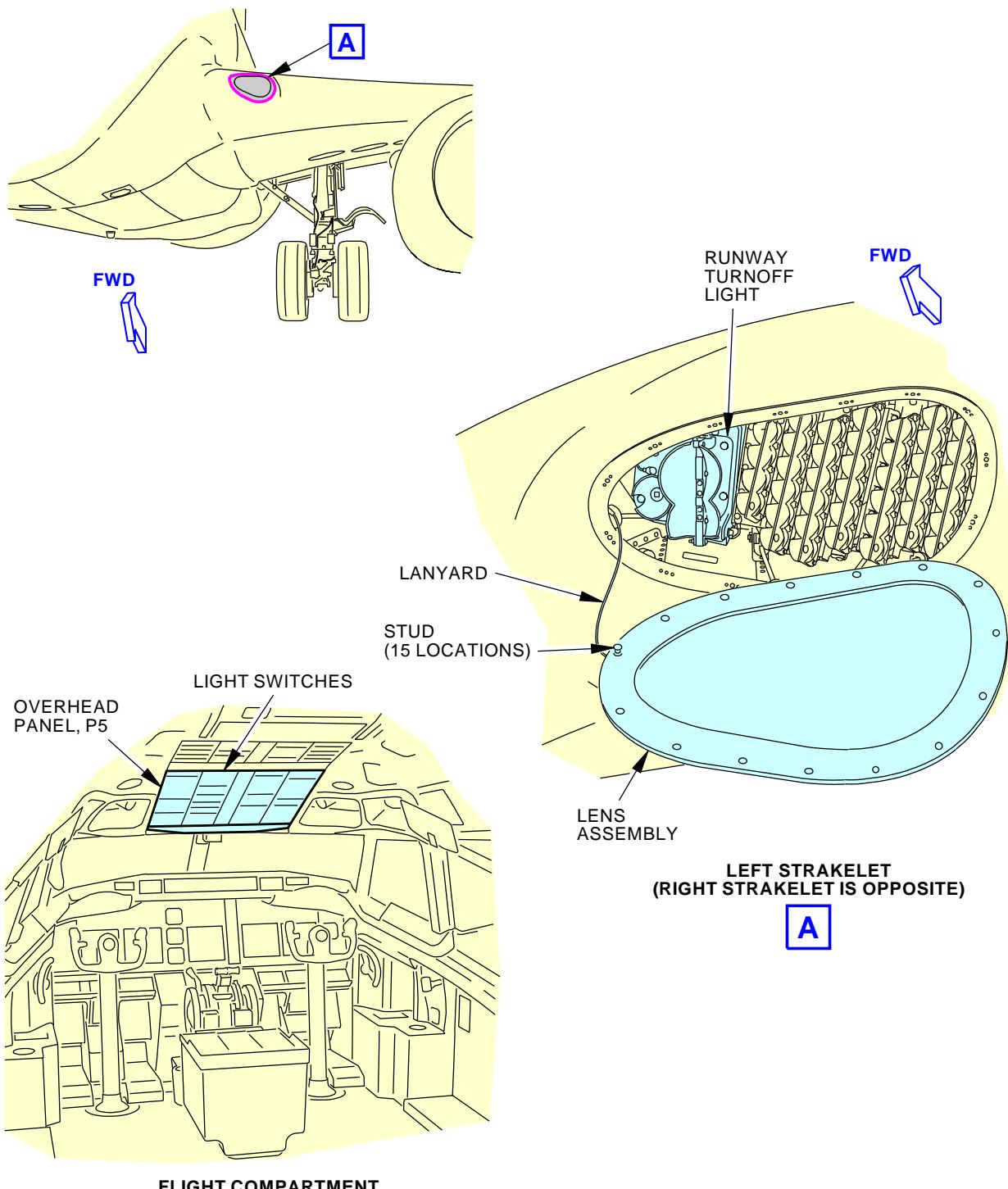
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Runway Turnoff Lights
Figure 201/33-45-02-990-803

 EFFECTIVITY
 AKS 001-017

33-45-02

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Runway Turnoff Lights
Figure 202/33-45-02-990-804

EFFECTIVITY
AKS 018-999

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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. Procedure

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
AKS 018-999			
B	14	C01968	EXTERIOR LIGHTING LTRTL - RIGHT
B	15	C01969	EXTERIOR LIGHTING LTRTL - LEFT
AKS 001-017			
C	12	C00245	EXT LIGHTING RUNWAY TURNOFF RIGHT
C	13	C00244	EXTERIOR LIGHTING RUNWAY TURNOFF LEFT
AKS ALL			
D	12	C01518	EXTERIOR LIGHTING GENERAL LIGHT CONT

— END OF TASK —

AKS 001-017

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



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AKS 001-017 (Continued)

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	33-45-02-01-040	AKS 001-017

D. Location Zones

Zone	Area
511	Left Wing - Leading Edge To Front Spar
611	Right Wing - Leading Edge to Front Spar

E. Procedure

SUBTASK 33-45-02-860-014

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:

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 [2] stays connected.
NOTE: Keep the lens assembly [3] and lanyard [2] 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 the retainer assembly [9].
NOTE: Do not turn the adjustment screws [5].

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AKS ALL

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AKS 001-017 (Continued)

- (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 (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) Using seal, G02186, wind a gasket completely around the edge of the lamp, without stretching the material.
- (f) Put the new lamp [8] in the housing.
 - 1) Make sure the FOG label is on the bottom.
- (g) Install the retainer assembly [9] and the screws [10].

CAUTION: IF THE SCREWS ARE TOO TIGHT, THE RETAINER WILL BEND. DAMAGE TO EQUIPMENT CAN OCCUR.

- 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 electrical power is supplied to the airplane. To supply it, 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) At the overhead panel, P5, set the switch for the runway turnoff light to the on mode.
 - 1) Make sure 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 to the off mode.
 - 1) Make sure the light goes off.

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:

EFFECTIVITY
AKS ALL

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AKS 001-017 (Continued)

- 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 .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 in-lb (2 N·m) to 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 Trailing Edge Flap System Deactivation, TASK 27-51-00-040-801 was performed to deactivate the leading edge flaps and slats, do this task: Trailing Edge Flap System Reactivation, TASK 27-51-00-440-801.
 - (b) If Leading Edge Flaps and Slats - Deactivation, TASK 27-81-00-040-801 was performed to deactivate the leading edge flaps and slats, 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. To remove it, do this task: Remove Electrical Power, TASK 24-22-00-860-812.

———— END OF TASK ————

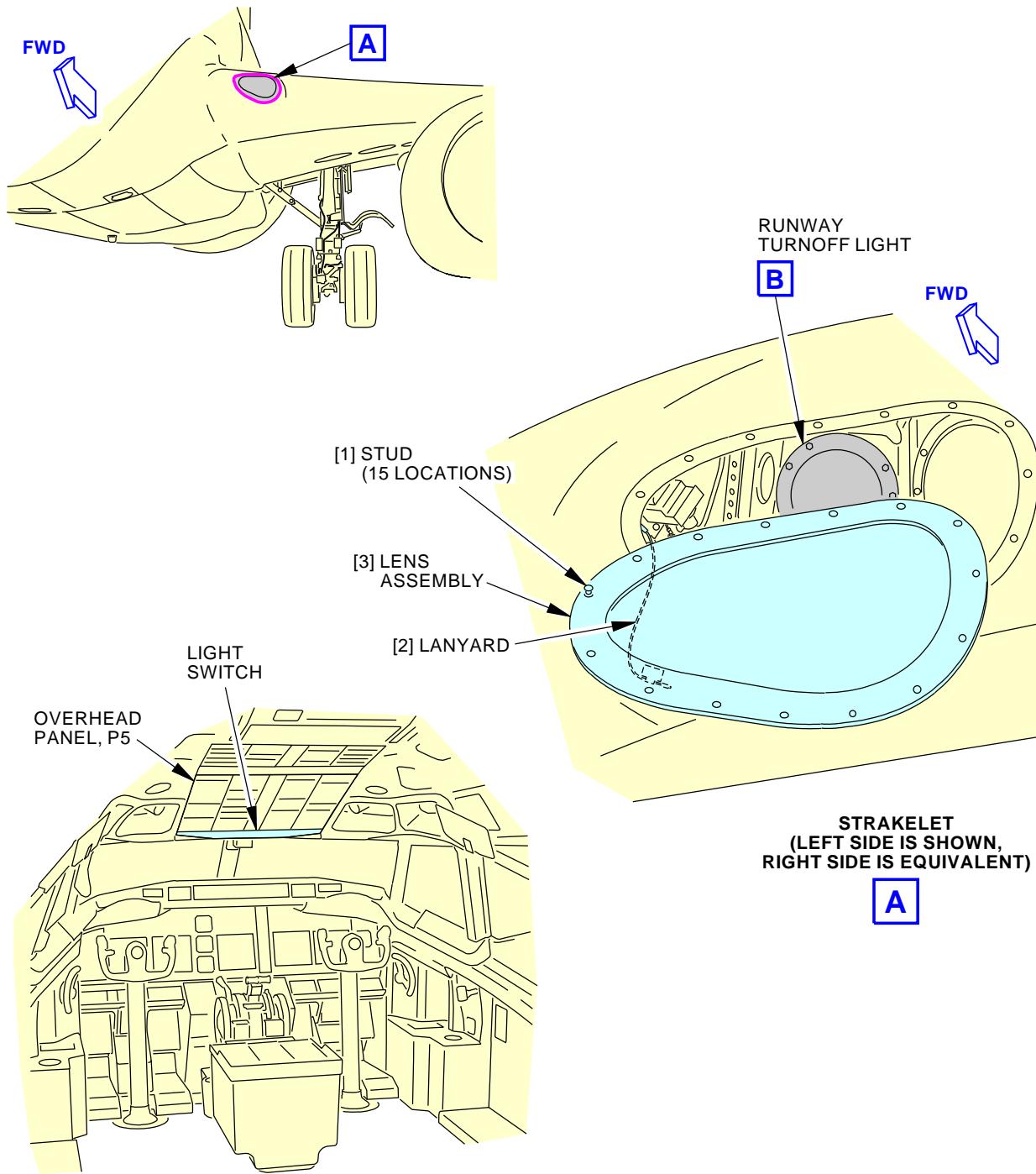
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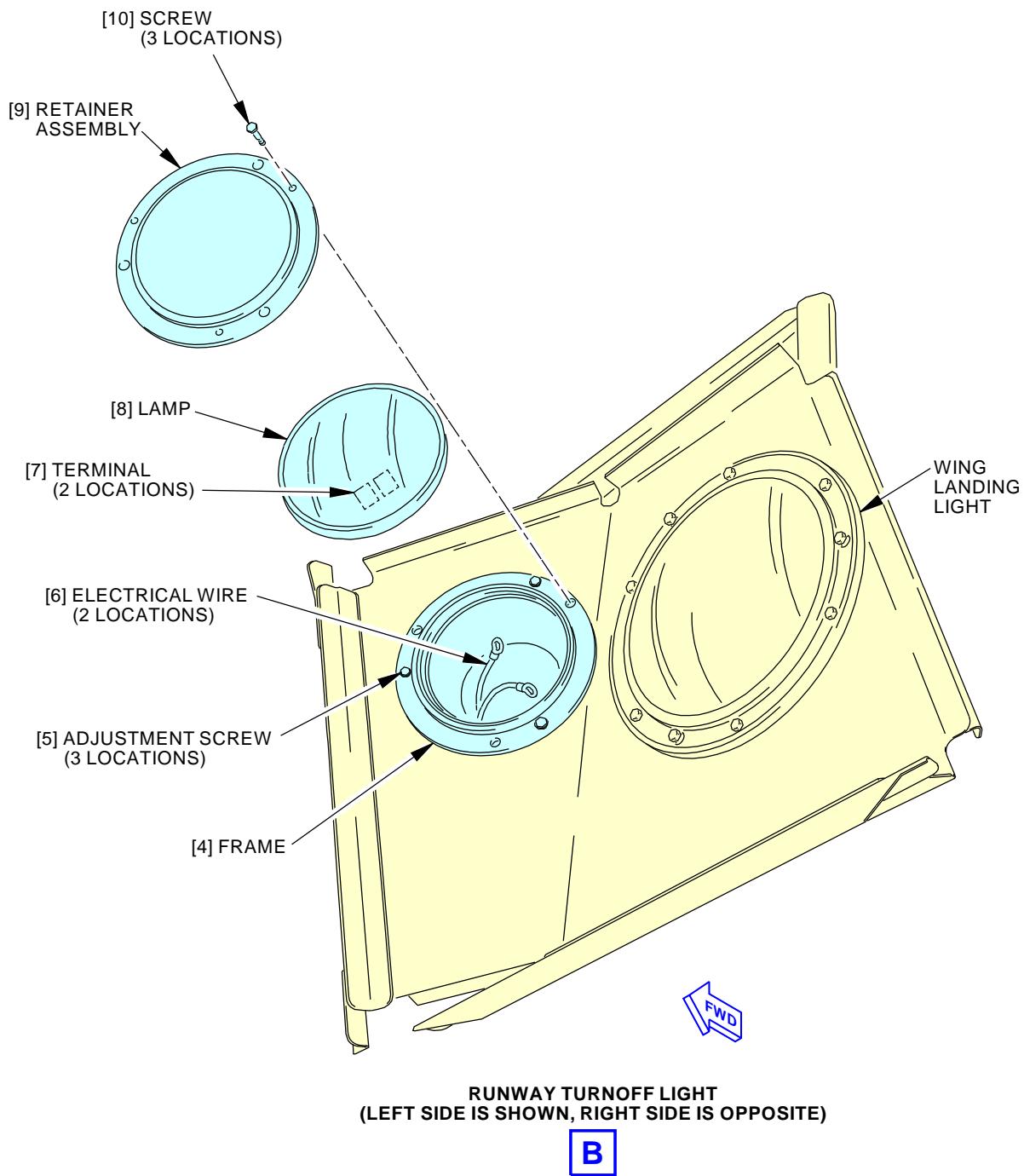
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Runway Turnoff Light - Lamp Replacement
Figure 203/33-45-02-990-801 (Sheet 1 of 2)

 EFFECTIVITY
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**Runway Turnoff Light - Lamp Replacement
Figure 203/33-45-02-990-801 (Sheet 2 of 2)**

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AKS 018-999

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)
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

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 Meters - 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 #: C15292 (MODEL T477W) Supplier: 01014 Part #: M1 Supplier: 3AD17 Opt Part #: M1B Supplier: 3AD17

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. Location Zones

Zone	Area
511	Left Wing - Leading Edge To Front Spar
611	Right Wing - Leading Edge to Front Spar

E. Prepare for the Replacement

SUBTASK 33-45-02-860-019

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:



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AKS 018-999 (Continued)

- (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 the procedure for devices that are sensitive to electrostatic discharge (ESDS Handling for Printed Circuit Board Removal, TASK 20-40-12-000-801).

F. Procedure

SUBTASK 33-45-02-020-001

- (1) Loosen the studs [4] 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 33-45-02-960-002

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

(a) Remove the nut [8], washer [9] and jumper [10].

(b) Remove the screws [7] and washers [5].

(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] and washers [5].

1) 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 N·m) - 35 in-lb (4 N·m).

SUBTASK 33-45-02-910-002

- (3) Measure the electrical bonding resistance using an intrinsically safe approved bonding meter, COM-1550 between the jumpers [10] and the fuselage (SWPM 20-20-00).

(a) Make sure that the bonding resistance is less than 0.0010 ohms.

EFFECTIVITY
AKS ALL

33-45-02

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AKS 018-999 (Continued)

SUBTASK 33-45-02-860-021

- (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 33-45-02-860-022

- (5) 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 33-45-02-710-002

- (6) Do a test of the runway turnoff light:

- (a) 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.
- (b) 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.
- (c) 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.
- (d) 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 33-45-02-420-001

- (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.
 - 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 N·m) - 25 in-lb (3 N·m).

G. 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 Trailing Edge Flap System Deactivation, TASK 27-51-00-040-801 was performed to deactivate the leading edge flaps and slats, do this task: Trailing Edge Flap System Reactivation, TASK 27-51-00-440-801.
- (b) If Leading Edge Flaps and Slats - Deactivation, TASK 27-81-00-040-801 was performed to deactivate the leading edge flaps and slats, do this task: Leading Edge Flaps and Slats - Activation, TASK 27-81-00-440-801.



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AKS 018-999 (Continued)

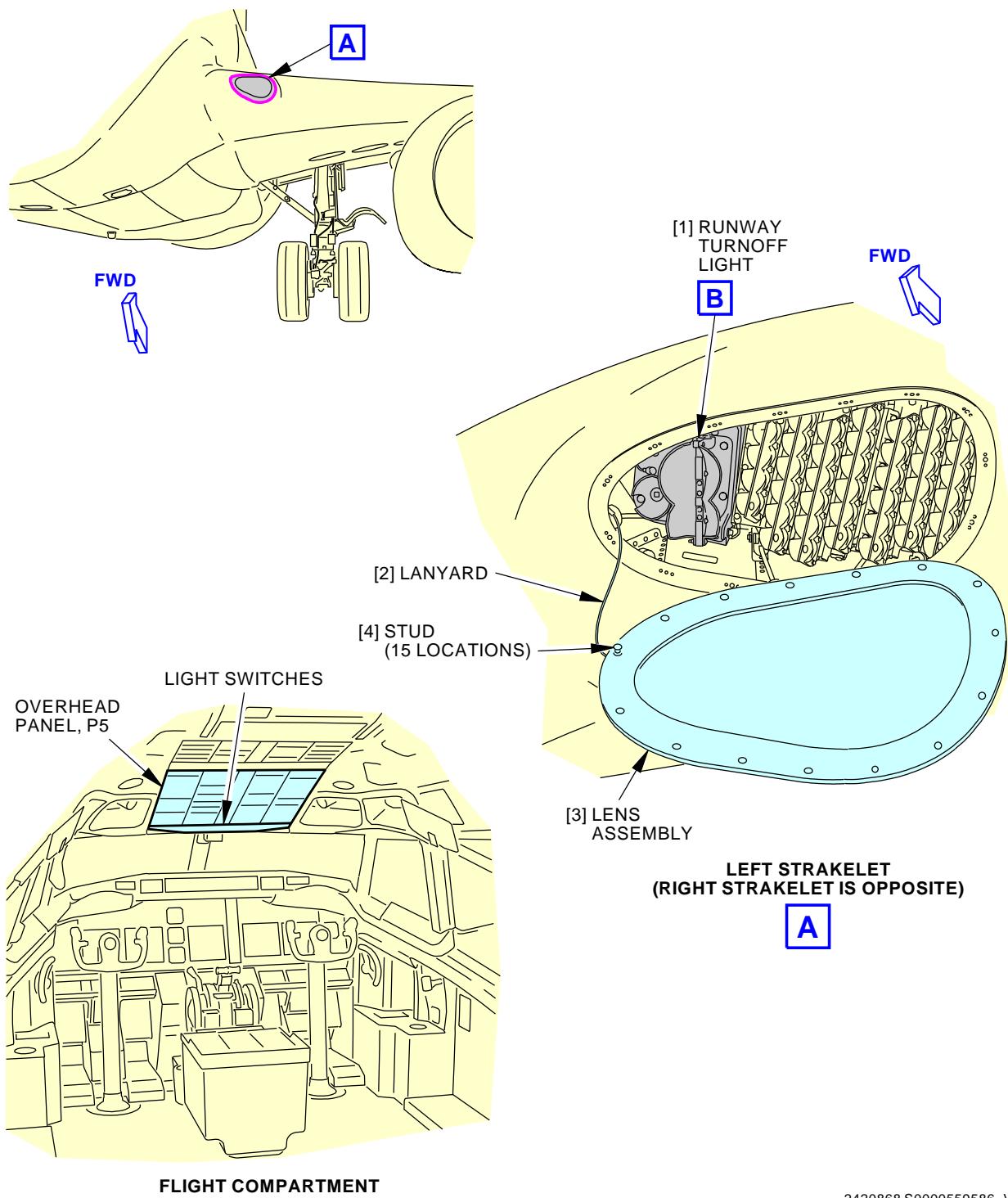
SUBTASK 33-45-02-860-024

- (2) 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
AKS ALL

33-45-02



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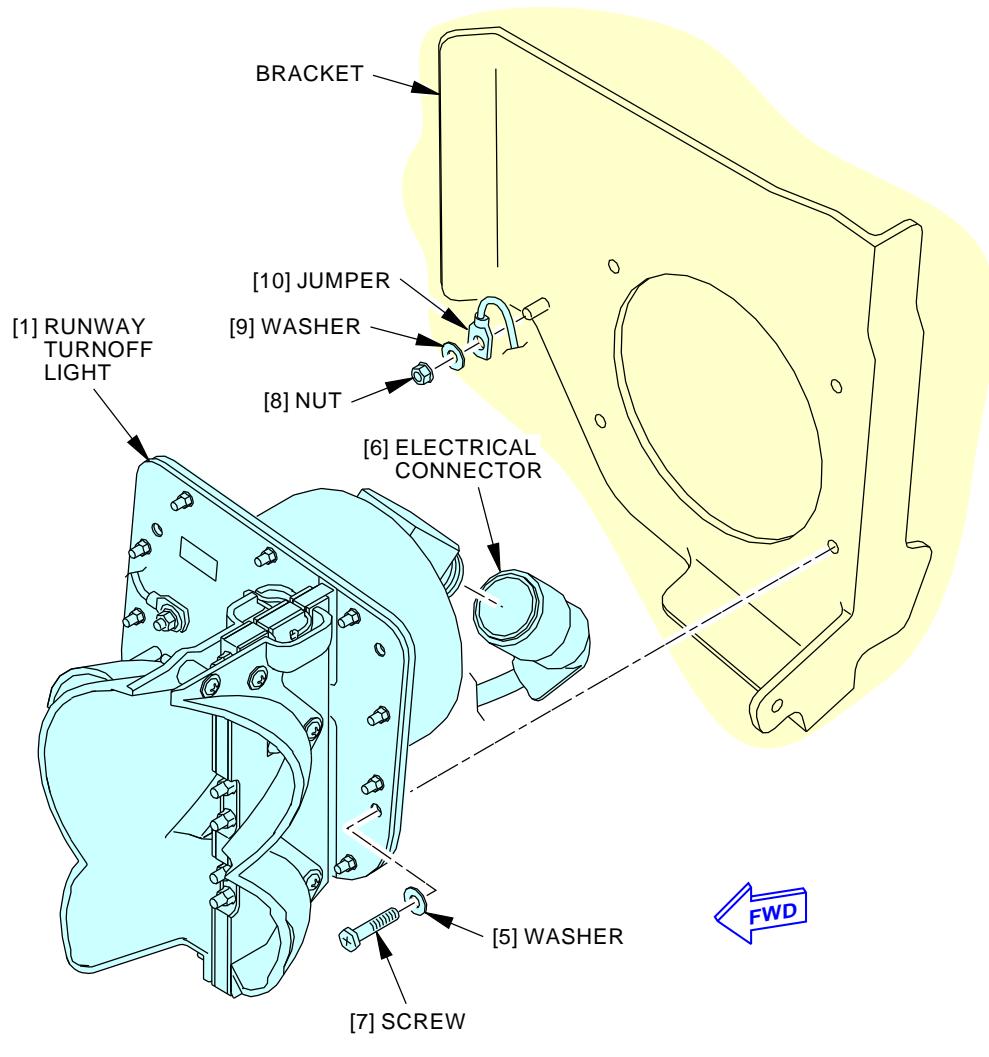
Runway Turnoff Light - Light Assembly Replacement
Figure 204/33-45-02-990-805 (Sheet 1 of 2)

 EFFECTIVITY
 AKS 018-999

33-45-02

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**LEFT RUNWAY TURNOFF LIGHT
 (RIGHT RUNWAY TURNOFF LIGHT IS OPPOSITE)**

B

2420870 S0000559587_V1

**Runway Turnoff Light - Light Assembly Replacement
 Figure 204/33-45-02-990-805 (Sheet 2 of 2)**

EFFECTIVITY
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AKS 001-017

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
AKS ALL

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AIRCRAFT MAINTENANCE MANUAL

AKS 001-017 (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 Trailing Edge Flap System Deactivation, TASK 27-51-00-040-801 was performed to deactivate the leading edge flaps and slats, do this task: Trailing Edge Flap System Reactivation, TASK 27-51-00-440-801.

- (b) If Leading Edge Flaps and Slats - Deactivation, TASK 27-81-00-040-801 was performed to deactivate the leading edge flaps and slats, 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.

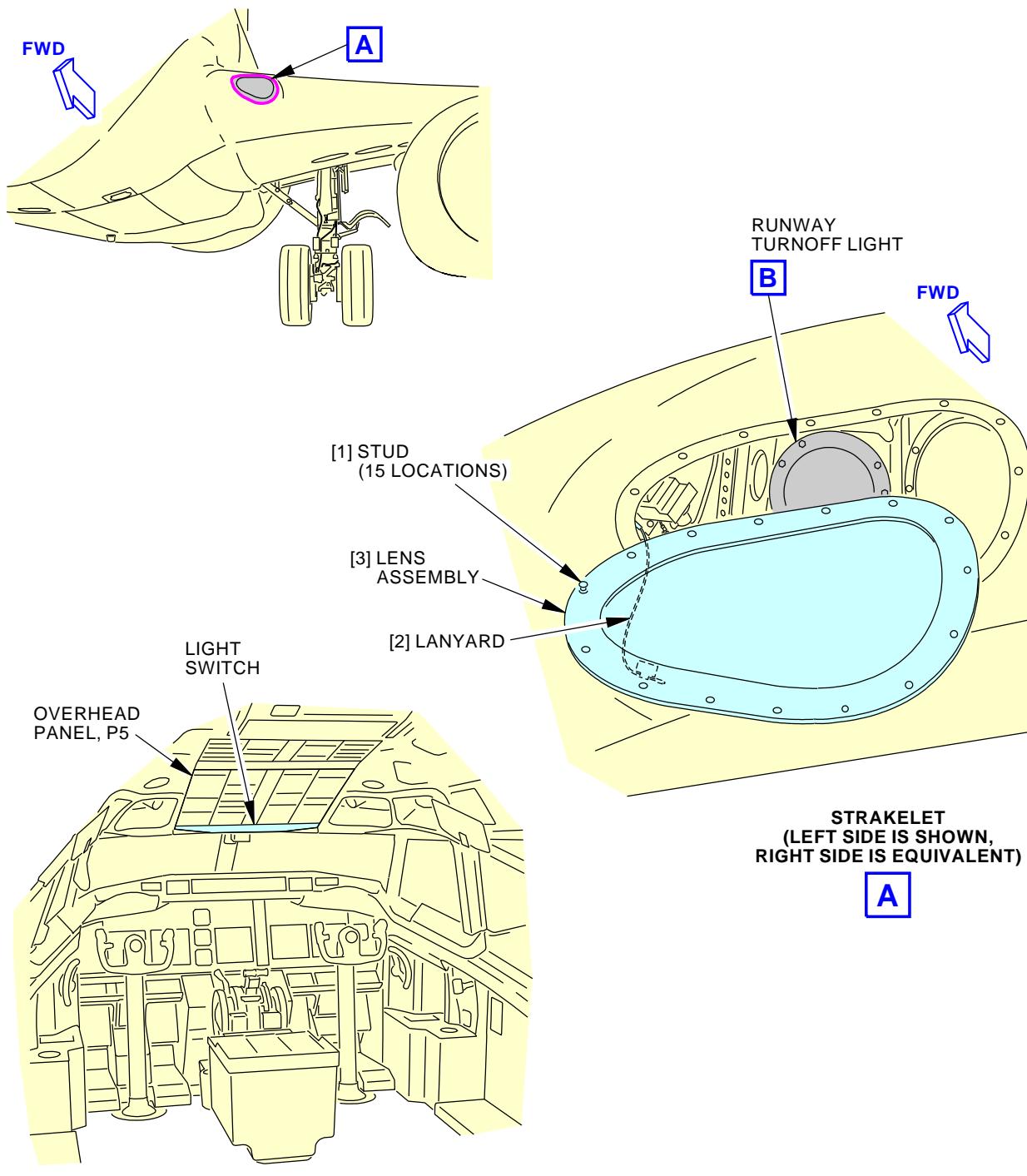
SUBTASK 33-45-02-940-003

- (12) Remove the marker.

———— END OF TASK ————

EFFECTIVITY
AKS ALL

33-45-02



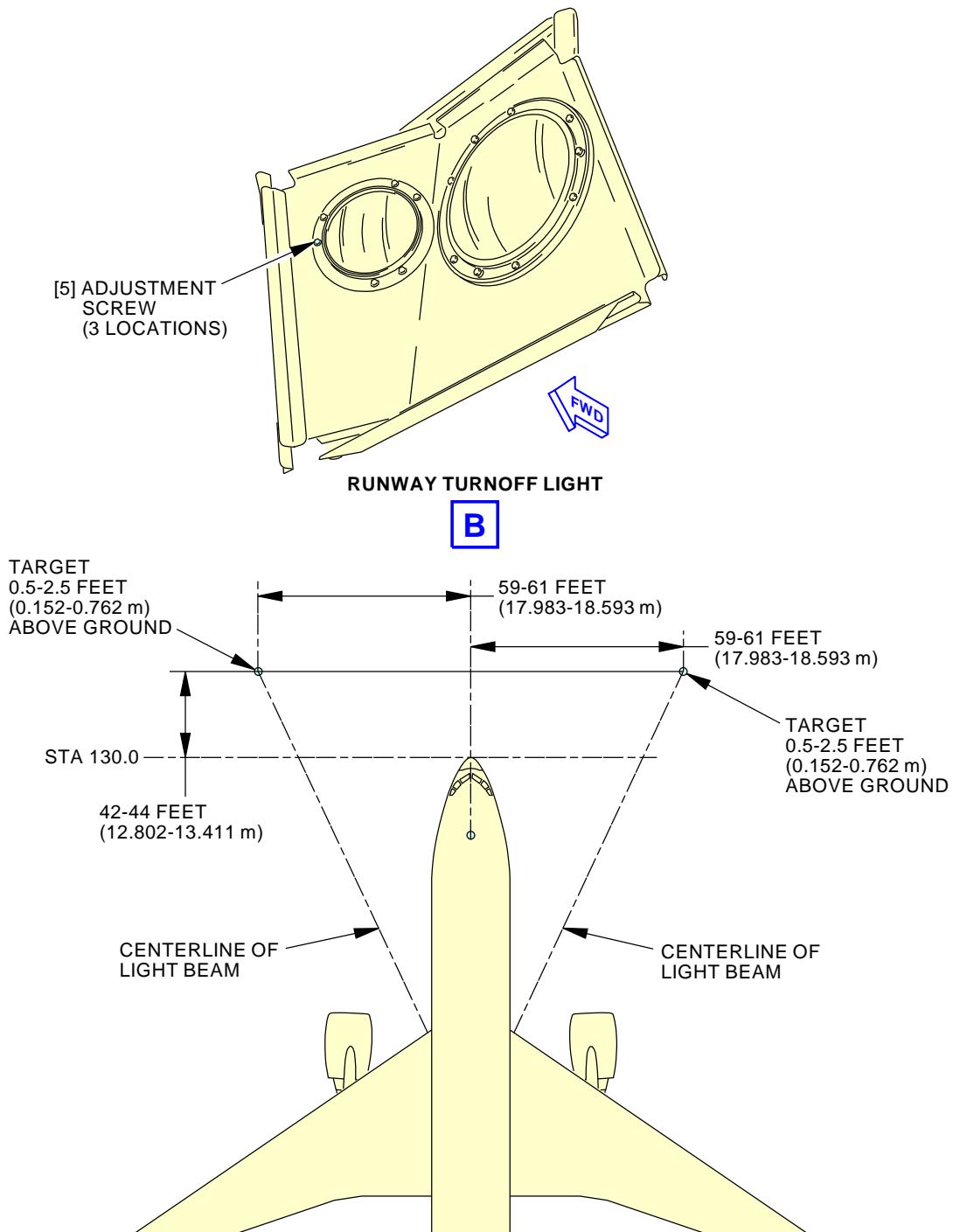
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Runway Turnoff Light - Light Beam Adjustment
Figure 205/33-45-02-990-802 (Sheet 1 of 2)

 EFFECTIVITY
 AKS 001-017

33-45-02

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G05699 S0006576325_V3

Runway Turnoff Light - Light Beam Adjustment
Figure 205/33-45-02-990-802 (Sheet 2 of 2)

EFFECTIVITY
AKS 001-017

33-45-02

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AIRCRAFT MAINTENANCE MANUAL

TAXI LIGHT RELAY - MAINTENANCE PRACTICES

1. General

- A. This procedure has these tasks:
- (1) Taxi Light Relay - Operational Test
 - (2) Taxi Light Relay - Replacement

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 #: A27092-106 Supplier: 81205
	Opt Part #: A27092-84 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

EFFECTIVITY
AKS 003-999; AIRPLANES WITH THE TAXI LIGHT
RELAY

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AIRCRAFT MAINTENANCE MANUAL

- (d) Make sure the taxi light goes off.
- (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
AKS 003-999; AIRPLANES WITH THE TAXI LIGHT
RELAY

33-45-03

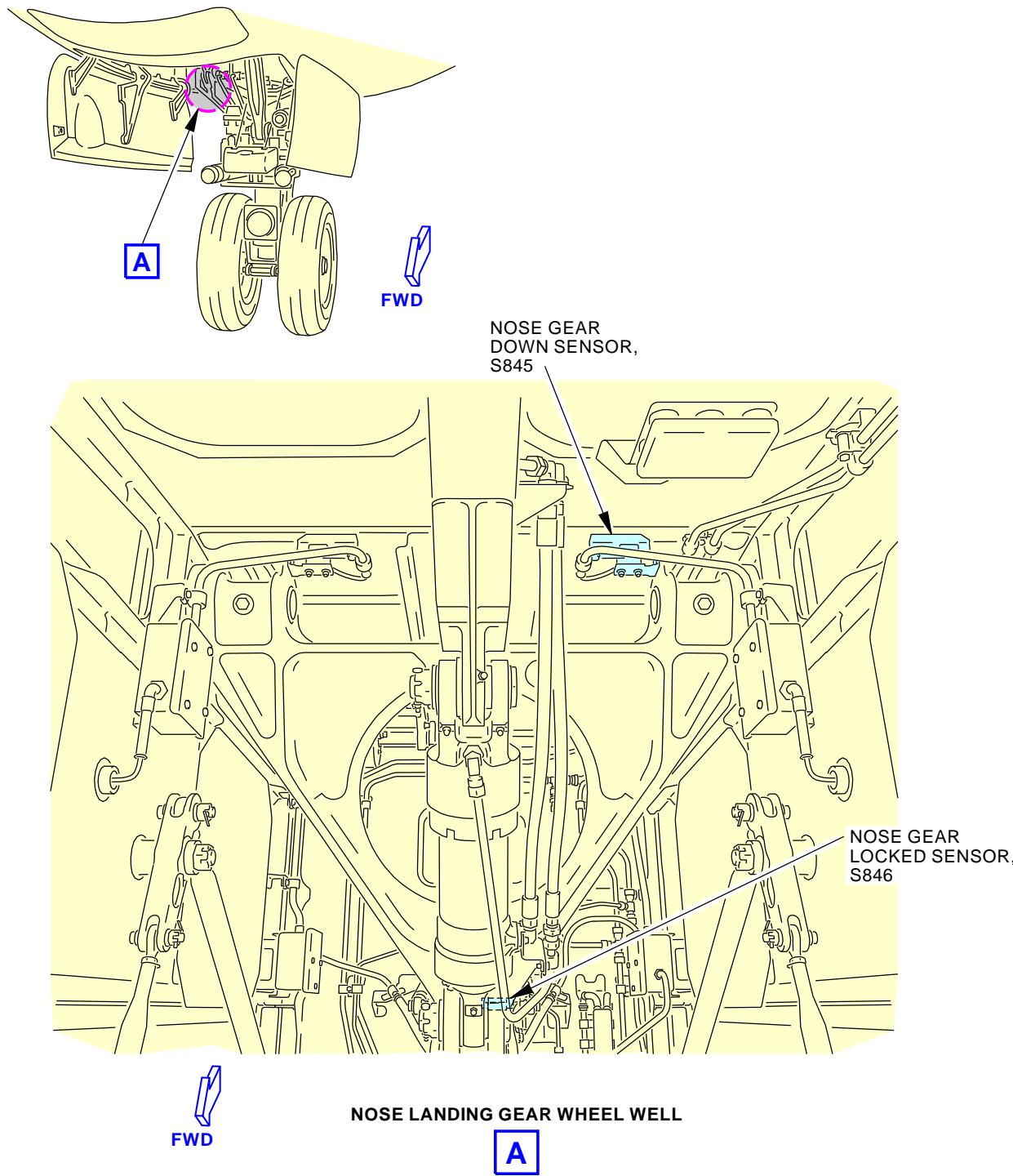
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Taxi Light Relay - Operational Test
Figure 201/33-45-03-990-801

EFFECTIVITY
AKS 003-999; AIRPLANES WITH THE TAXI LIGHT
RELAY

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TASK 33-45-03-960-801

3. Taxi Light Relay - Replacement

(Figure 202)

A. 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

B. Access Panels

Number	Name/Location
114BW	Forward Nose Wheel Well Panel

C. Procedure

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
AKS 003-017			
D	14	C00123	EXT LIGHTING NOSE GEAR TAXI

AKS 003-999; AIRPLANES WITH THE TAXI LIGHT RELAY

SUBTASK 33-45-03-010-001

- (2) Open this access panel:

Number Name/Location

114BW Forward Nose Wheel Well Panel

SUBTASK 33-45-03-960-001

- (3) Do these steps to replace the relay:

- Loosen the fasteners [1] and remove the cover [2] from the J4 junction box.
- Remove the screws [4] on the relay.
- Replace the relay [3].
- Install the screws [4] on the relay.
- 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:

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

EFFECTIVITY
**AKS 003-999; AIRPLANES WITH THE TAXI LIGHT
RELAY**

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(Continued)

CAPT Electrical System Panel, P18-3

Row Col Number Name

AKS 003-017

D 14 C00123 EXT LIGHTING NOSE GEAR TAXI

AKS 003-999; AIRPLANES WITH THE TAXI LIGHT RELAY

SUBTASK 33-45-03-710-002

- (6) For a test of the new relay, do this task: Taxi Light Relay - Operational Test, TASK 33-45-03-710-801.

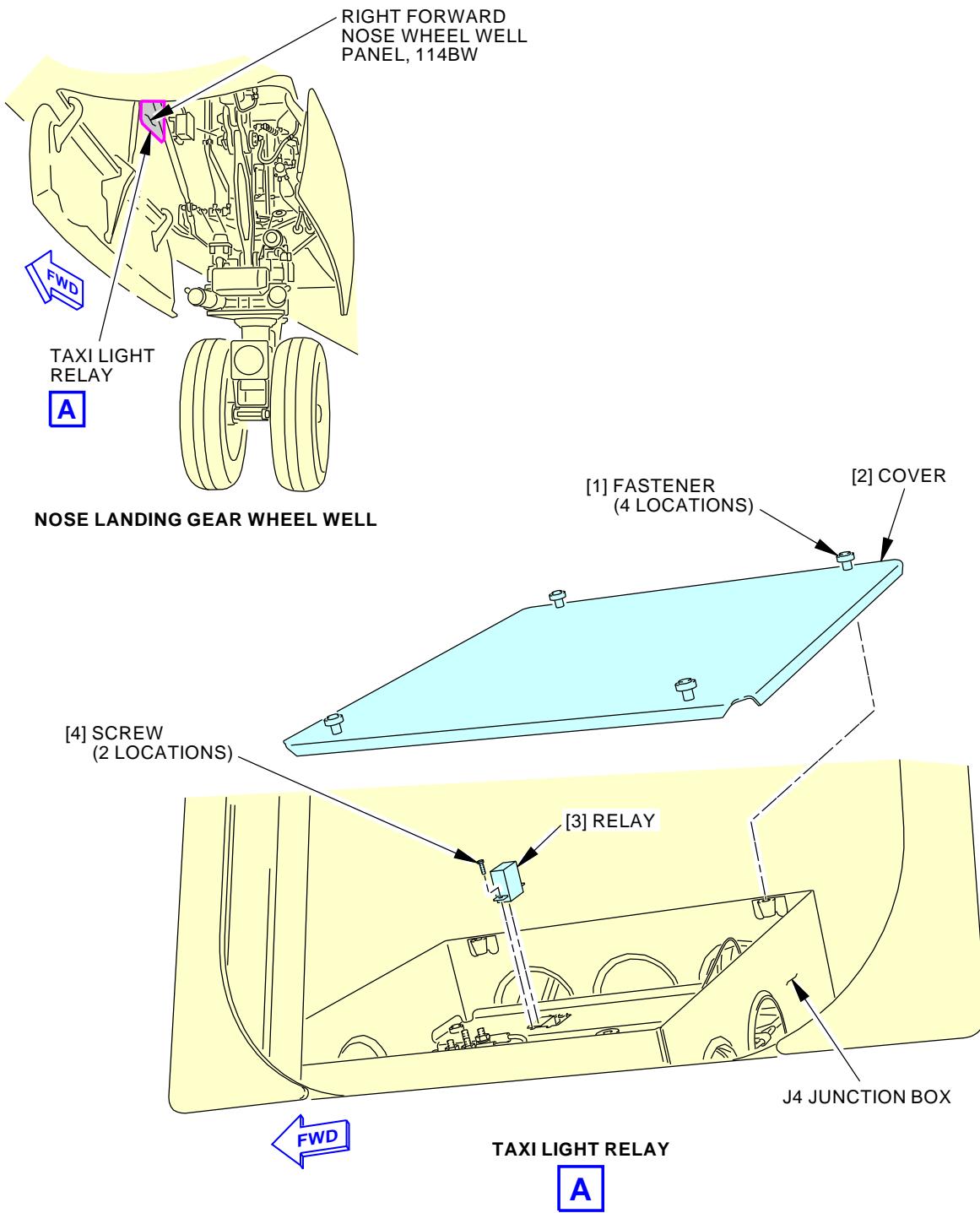
———— END OF TASK ————

EFFECTIVITY
**AKS 003-999; AIRPLANES WITH THE TAXI LIGHT
RELAY**

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AIRCRAFT MAINTENANCE MANUAL



H30399 S0006576331_V3

Taxi Light Relay - Replacement
Figure 202/33-45-03-990-802

EFFECTIVITY
AKS 003-999; AIRPLANES WITH THE TAXI LIGHT
RELAY

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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
 - (3) Logo Light - Lamp Replacement
 - (4) 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

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 33-49-00-860-009

- (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

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 ————

TASK 33-49-00-440-801

3. Logo Light - Activation

(Figure 201)

A. General

- (1) This procedure adds electrical power to the logo lights.



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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 ————

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)

B. Consumable Materials

Reference	Description	Specification
G01306	Gloves - Lint-free	

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Lamp	33-49-00-01-070	AKS ALL

D. 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

E. Access Panels

Number	Name/Location
333EB	Horizontal Stabilizer, Access Panel, Trailing Edge
343EB	Horizontal Stabilizer, Access Panel - T.E. Area

F. Procedure

SUBTASK 33-49-00-860-001

- (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



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SUBTASK 33-49-00-010-001

- (2) Open the applicable access panels below the logo light:

<u>Number</u>	<u>Name/Location</u>
333EB	Horizontal Stabilizer, Access Panel, Trailing Edge
343EB	Horizontal Stabilizer, Access Panel - T.E. Area

SUBTASK 33-49-00-960-001

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 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).

- (c) Remove the socket [2].

- (d) Release the lower spring [6] from the right hook [7] (View D).

- (e) Remove the lamp [1] from the rear of the reflector assembly [11] (View E).

- (f) Install the new lamp [1] to the reflector assembly [11].

- 1) Make sure the lamp [1] is flush into the reflector assembly [11].

- (g) Latch the lower spring [6] to the right hook [7] to hold the lamp [1] in its position (View D).

NOTE: The "V" bend on the lower spring [6] is larger than the top spring [5].

- 1) Make sure 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 the lower spring [6] is positioned under the socket [2] (View C).

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).

- 1) Make sure the socket [2] is seated firmly under the top spring [5].

- (j) Install the socket cover [3] and tighten the fasteners [4].

SUBTASK 33-49-00-940-001

- (4) Close the applicable access panels:

<u>Number</u>	<u>Name/Location</u>
333EB	Horizontal Stabilizer, Access Panel, Trailing Edge
343EB	Horizontal Stabilizer, Access Panel - T.E. Area

EFFECTIVITY
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AIRCRAFT MAINTENANCE MANUAL

SUBTASK 33-49-00-860-002

- (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>
A	15	C00644	EXTERIOR LIGHTING LOGO ILLUM

SUBTASK 33-49-00-860-003

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

SUBTASK 33-49-00-710-001

- (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.

G. 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.

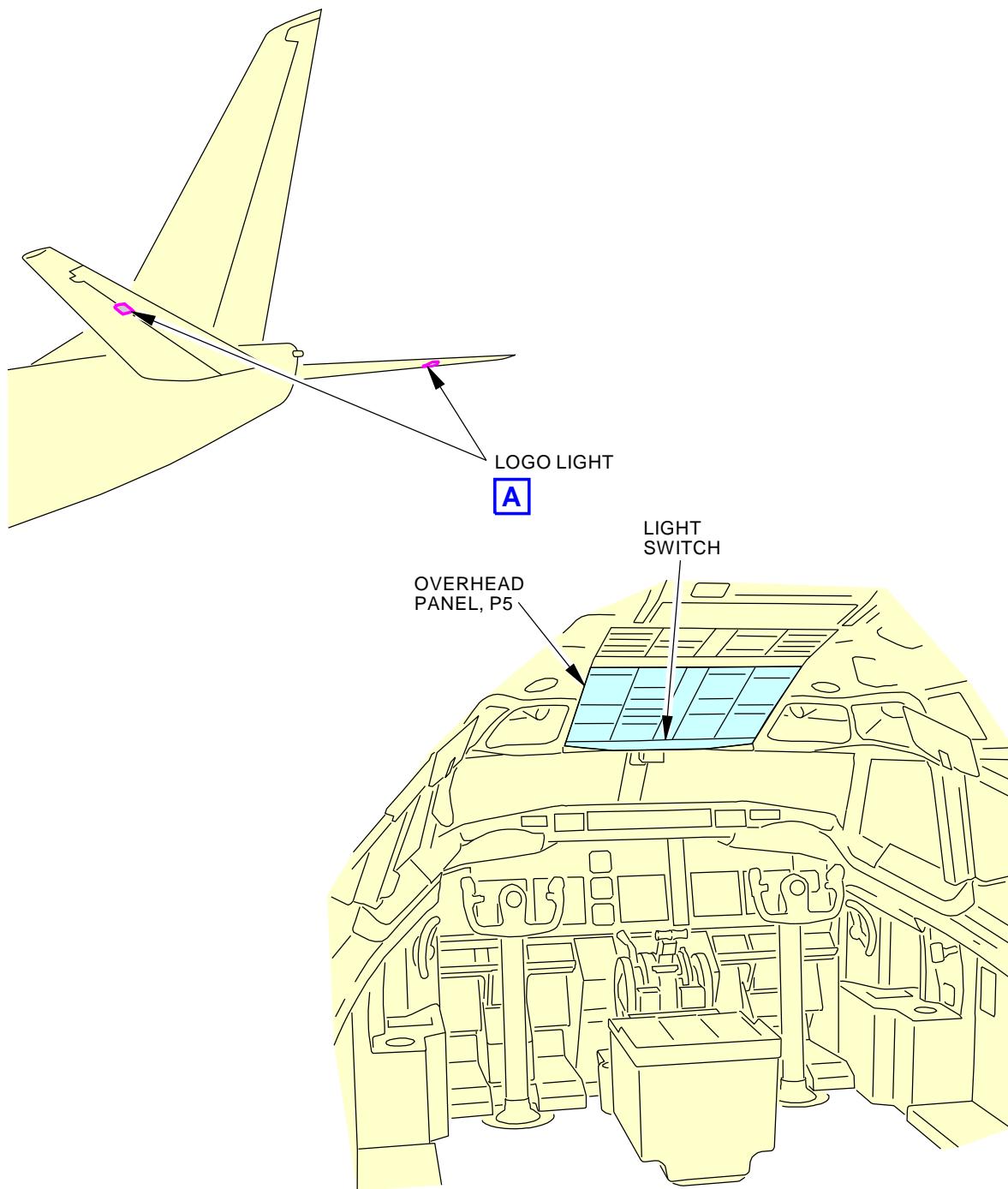
———— END OF TASK ————



33-49-00



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AIRCRAFT MAINTENANCE MANUAL



FLIGHT COMPARTMENT

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Logo Light - Lamp Replacement
Figure 201/33-49-00-990-801 (Sheet 1 of 3)

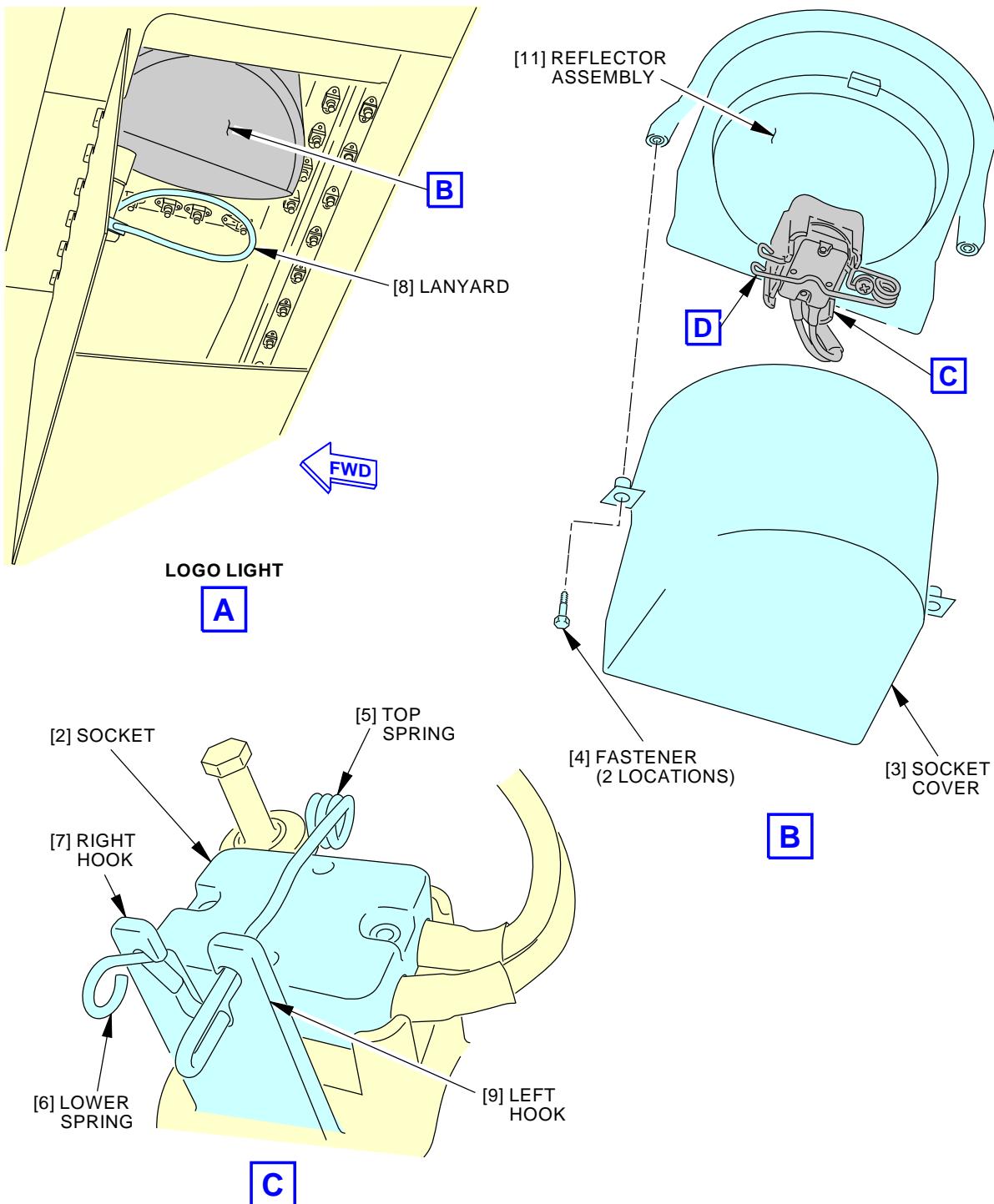
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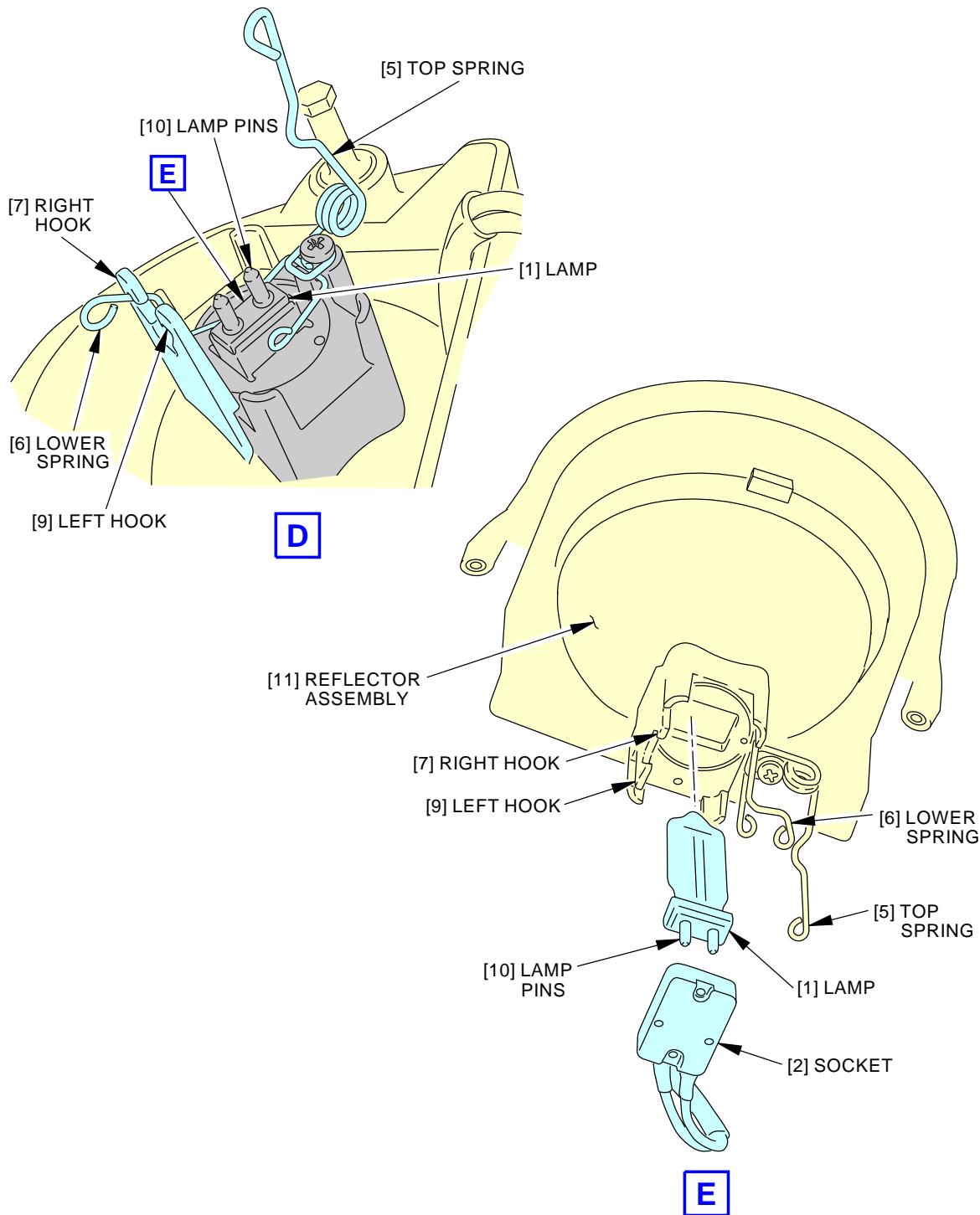
Logo Light - Lamp Replacement
Figure 201/33-49-00-990-801 (Sheet 2 of 3)

EFFECTIVITY
AKS ALL

33-49-00

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Logo Light - Lamp Replacement
Figure 201/33-49-00-990-801 (Sheet 3 of 3)

EFFECTIVITY
AKS ALL

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TASK 33-49-00-960-802

5. Logo Light - Light Assembly Replacement

(Figure 201, Figure 202)

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)

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 Meters - 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 #: C15292 (MODEL T477W) Supplier: 01014 Part #: M1 Supplier: 3AD17 Opt Part #: M1B Supplier: 3AD17

D. Consumable Materials

Reference	Description	Specification
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
G01306	Gloves - Lint-free	

E. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
22	Light assembly	33-49-00-01-010	AKS ALL
		33-49-00-01-015	AKS 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. Access Panels

Number	Name/Location
333EB	Horizontal Stabilizer, Access Panel, Trailing Edge
343EB	Horizontal Stabilizer, Access Panel - T.E. Area



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H. Procedure - Method 1

SUBTASK 33-49-00-860-005

- (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>
A	15	C00644	EXTERIOR LIGHTING LOGO ILLUM

SUBTASK 33-49-00-960-002

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

- Remove the bolts [21] on the top of the light assembly.
- Lift up the light assembly [22].
- Disconnect the electrical connector [23].
- 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.

- Connect the electrical connector [23].
- With sealant, A02315, apply a fillet seal between the specified points on the light assembly and the airplane structure.
- Put the light assembly [22] in its position.
- Install the bolts [21] with the corrosion-preventative compound, C00528.
- 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 33-49-00-860-006

- (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>
A	15	C00644	EXTERIOR LIGHTING LOGO ILLUM

SUBTASK 33-49-00-860-007

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

SUBTASK 33-49-00-710-002

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

- Set the GALLEY switch on the P5-13 panel to the ON position.

NOTE: On some airplanes the switch name is CAB/UTIL.

- At the overhead panel, P5, set the switch for the logo lights to the ON mode.
 - 1) Make sure the light comes on.
 - If it is necessary to adjust the direction of the light beam, do these steps:
 - Open the access panel below the logo light.
 - Turn the adjustment screws below the housing until the light beam is on the logo.
 - Close the access panel.

- Set the GALLEY switch on the P5-13 panel to the OFF position.

NOTE: On some airplanes the switch name is CAB/UTIL.

EFFECTIVITY
AKS ALL

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- (d) Set the logo lights switch to the OFF mode.
 - 1) Make sure the light goes off.

SUBTASK 33-49-00-390-001

- (6) With sealant, A02315, apply an aerodynamic seal around the perimeter of the light assembly.

SUBTASK 33-49-00-860-008

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

I. Procedure - Method 2 (without removing the Lens Assembly)

SUBTASK 33-49-00-860-015

- (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>
A	15	C00644	EXTERIOR LIGHTING LOGO ILLUM

SUBTASK 33-49-00-010-003

- (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 33-49-00-960-004

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

- (a) Remove the screws [2] on the top of the light assembly.

- (b) Disconnect the electrical connector [23].

- (c) 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.

- (d) Connect the electrical connector [23].

- (e) Put the light assembly [22] and the gasket [6] in their position.

- (f) Install the screws [2] on the top of the light assembly.

- (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

- (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>
A	15	C00644	EXTERIOR LIGHTING LOGO ILLUM

SUBTASK 33-49-00-860-018

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

SUBTASK 33-49-00-710-004

- (6) 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.

EFFECTIVITY
AKS ALL

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- (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

- (7) Close the applicable access panels:

<u>Number</u>	<u>Name/Location</u>
333EB	Horizontal Stabilizer, Access Panel, Trailing Edge
343EB	Horizontal Stabilizer, Access Panel - T.E. Area

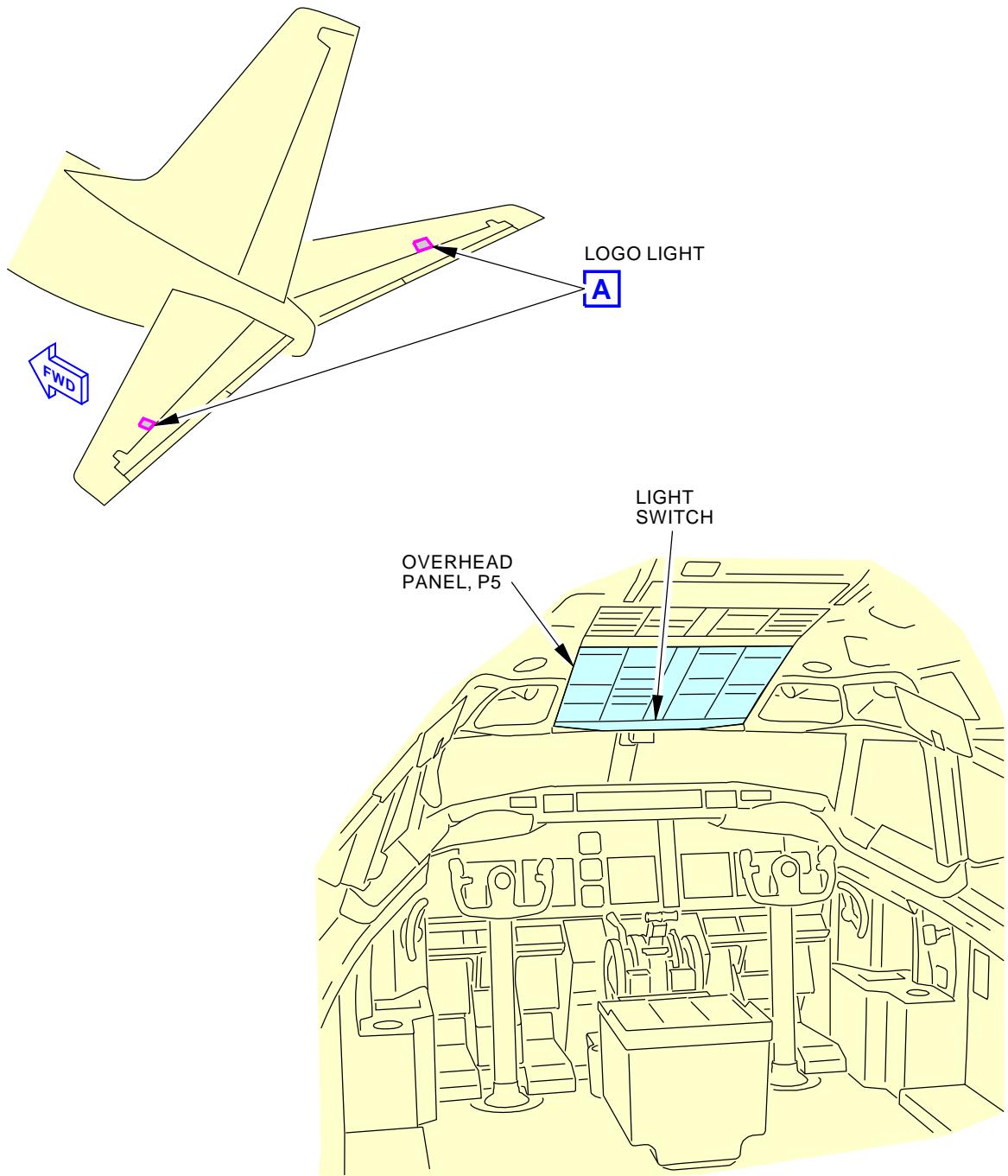
SUBTASK 33-49-00-860-019

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

———— END OF TASK ————

EFFECTIVITY
AKS ALL

33-49-00



FLIGHT COMPARTMENT

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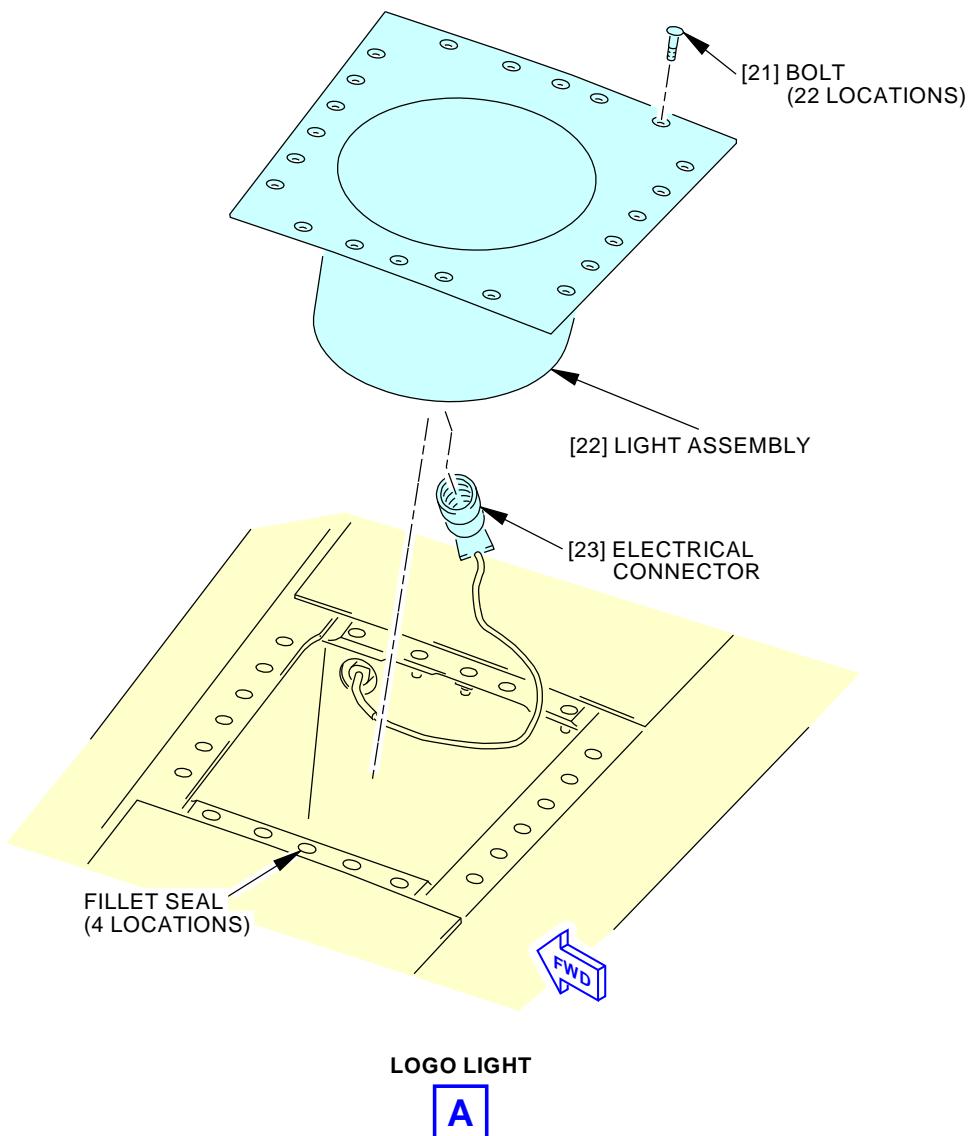
Logo Light - Light Assembly Replacement
Figure 202/33-49-00-990-802 (Sheet 1 of 4)EFFECTIVITY
AKS ALL**33-49-00**

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Logo Light - Light Assembly Replacement
Figure 202/33-49-00-990-802 (Sheet 2 of 4)

EFFECTIVITY
AKS ALL

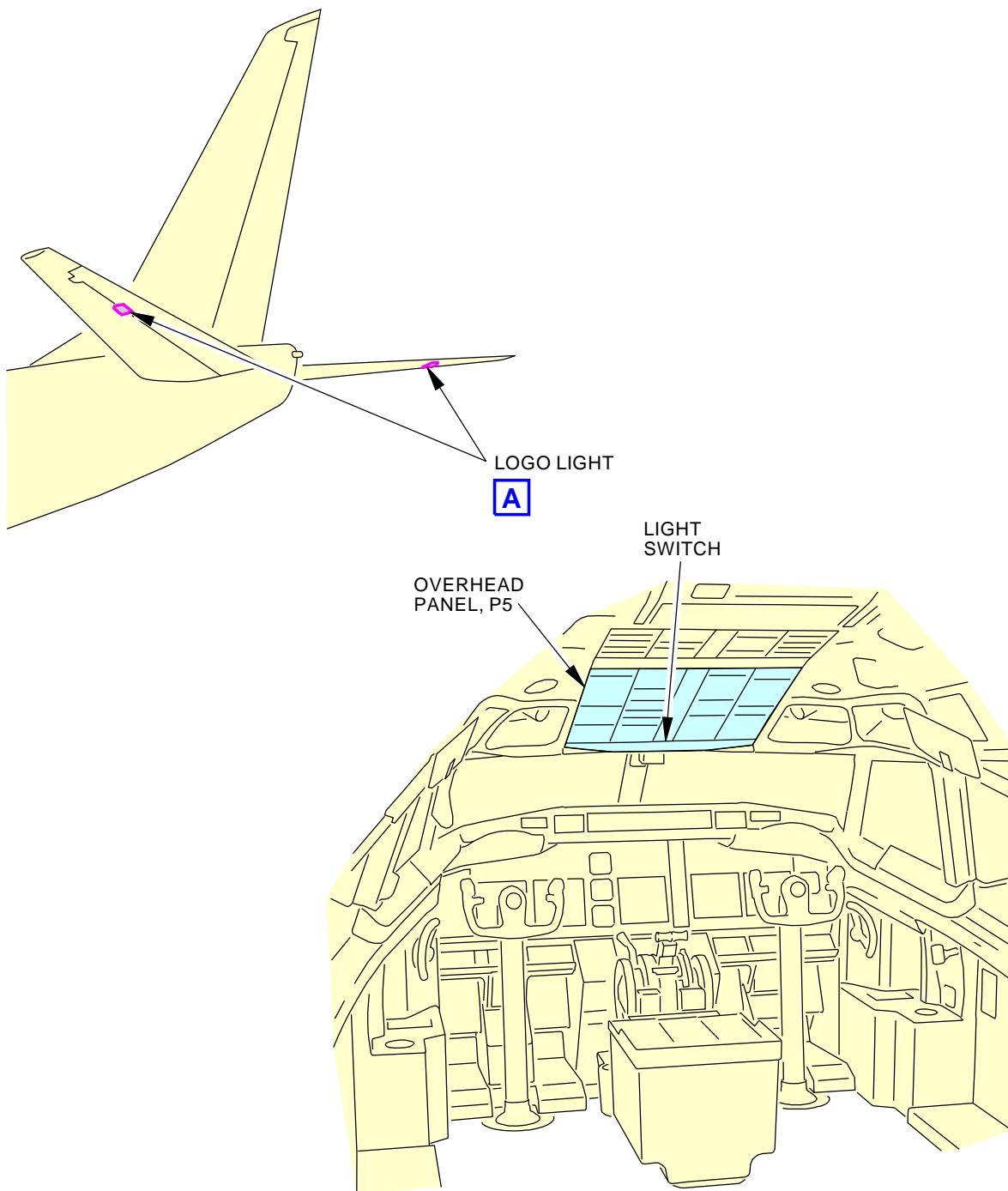
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FLIGHT COMPARTMENT

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Logo Light - Light Assembly Replacement
Figure 202/33-49-00-990-802 (Sheet 3 of 4)

EFFECTIVITY
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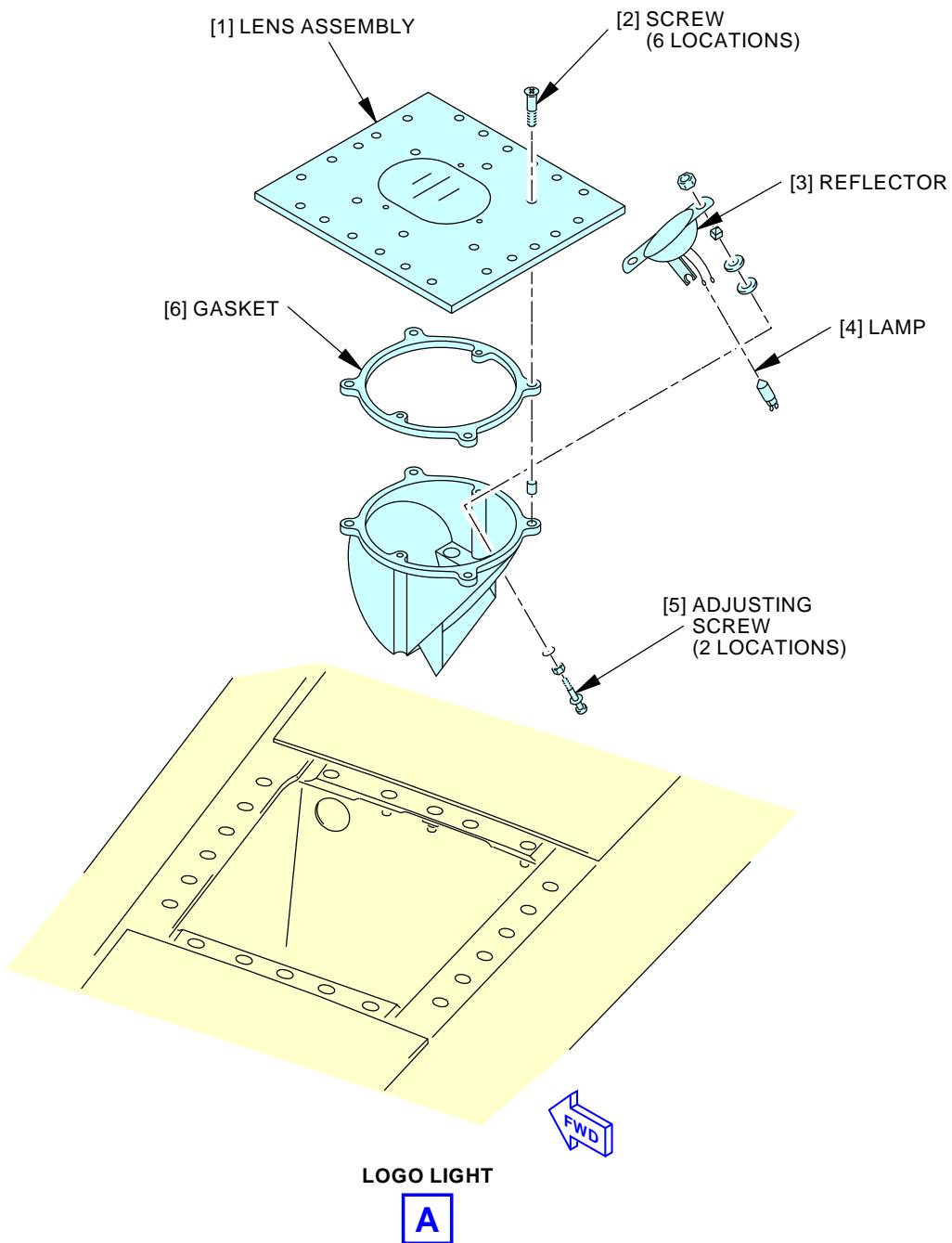
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Logo Light - Light Assembly Replacement
Figure 202/33-49-00-990-802 (Sheet 4 of 4)

EFFECTIVITY
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AIRCRAFT MAINTENANCE MANUAL
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 - Functional Test

TASK 33-51-00-710-801

2. Emergency Lights - Operational Test

NOTE: This procedure is a scheduled maintenance task.

A. General

- (1) This test makes sure the emergency lights come on.

B. References

Reference	Title
WDM 33-51-11 thru 33-51-21	Wiring Diagram Manual
WDM 33-51-22	Wiring Diagram Manual

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Procedure

SUBTASK 33-51-00-710-001

- (1) Do a check of the emergency lights (WDM 33-51-11 thru 33-51-21 and WDM 33-51-22):
 - (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.

 - 1) Make sure the emergency dome light comes on.
 - 2) Make sure the lights in the passenger compartment come on.

NOTE: This check includes all types of emergency area lights, exit signs, escape hatch handles, and floor proximity lights in the passenger compartment.

 - 3) Make sure the exterior lights come on.

NOTE: This check includes all slide and overwing lights.
 - (b) Set the switch to the off mode.
 - 1) Make sure the emergency dome light goes off.
 - 2) Make sure the lights in the passenger compartment go off.
 - 3) Make sure the exterior lights go off.

———— END OF TASK ————

TASK 33-51-00-720-801

3. Emergency Lights - Operational Check

NOTE: This procedure is a scheduled maintenance task.

EFFECTIVITY
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A. General

- (1) This test makes sure all components in the emergency lighting system operate.

B. References

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
33-51-06-610-802	Power Supply - Charge the Battery Packs (P/B 201)
WDM 33-51-11 thru 33-51-22	Wiring Diagram Manual

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Procedure

SUBTASK 33-51-00-610-001

- (1) Make sure the battery packs are fully charged before you do this task (Power Supply - Charge the Battery Packs, TASK 33-51-06-610-802).

SUBTASK 33-51-00-860-001

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

SUBTASK 33-51-00-710-003

- (3) Do a check of the emergency lighting system with the pilots emergency light switch (WDM 33-51-11 thru 33-51-22) .

- (a) At the overhead panel, P5, set the pilots emergency light switch to the on mode.

- 1) Make sure the emergency dome light, L00273, comes on.

NOTE: The location of the emergency dome light is in the flight deck.

- 2) Make sure the exterior lights come on.

NOTE: This check includes all slide and overwing lights.

- 3) Make sure the lights in the passenger compartment come on.

NOTE: This check includes all types of emergency area lights, exit signs, escape hatch handles, and floor proximity lights in the passenger compartment.

- (b) Set the switch to the off mode.

- 1) Make sure the emergency dome light, L00273, goes off.

NOTE: The location of the emergency dome light is in the flight deck.

- 2) Make sure the NOT ARMED indication shows on the P5 panel.

- 3) Make sure the lights in the passenger compartment go off.

- 4) Make sure the exterior lights go off.

- (c) Set the switch to the armed mode.

- 1) Make sure the light stays off.

- 2) Make sure no lighting indication shows on the P5 panel.

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
A	11	C00250	PASS CABIN LIGHTING EMER CHGR FWD

EFFECTIVITY
AKS ALL

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AIRCRAFT MAINTENANCE MANUAL

- 1) Make sure the emergency dome light, L00273, comes on.

NOTE: The location of the emergency dome light is in the flight deck.

- (e) 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	11	C00250	PASS CABIN LIGHTING EMER CHGR FWD
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- 1) Make sure the emergency dome light, L00273, goes off.

NOTE: The location of the emergency dome light is in the flight deck.

- (f) Set the switch to the off mode.

SUBTASK 33-51-00-710-004

- (4) Do a check of the emergency lighting system with the attendant emergency light switch (WDM 33-51-11 thru 33-51-22).

- (a) At the attendant panel, set the attendant emergency light switch to the on mode.

- 1) Make sure the lights in the passenger compartment come on.

NOTE: This check includes all types of emergency area lights, exit signs, escape hatch handles, and floor proximity lights in the passenger compartment.

- 2) Make sure the exterior lights come on.

NOTE: This check includes all slide and overwing lights.

- 3) Make sure the emergency dome light, L00273, comes on.

NOTE: The location of the emergency dome light is in the flight deck.

- (b) Set the switch to the off mode.

- 1) Make sure the lights in the passenger compartment go off.

- 2) Make sure the exterior lights go off.

- 3) Make sure the emergency dome light, L00273, goes off.

NOTE: The location of the emergency dome light is in the flight deck.

SUBTASK 33-51-00-610-003

- (5) Do this task: Power Supply - Charge the Battery Packs, TASK 33-51-06-610-802.

———— END OF TASK ————



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. Location Zones

Zone	Area
200	Upper Half of Fuselage

B. Procedure

SUBTASK 33-51-01-960-001

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.

- (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.

- 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) AIRPLANES WITH KOITO EXIT SIGN;

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 ± 0.13 in-lb (0.16 ± 0.02 N·m).

EFFECTIVITY

AKS ALL

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- 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 the new lamp comes on.
- (b) Set the switch to the off mode.
 - 1) Make sure 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].

———— END OF TASK ————



33-51-01

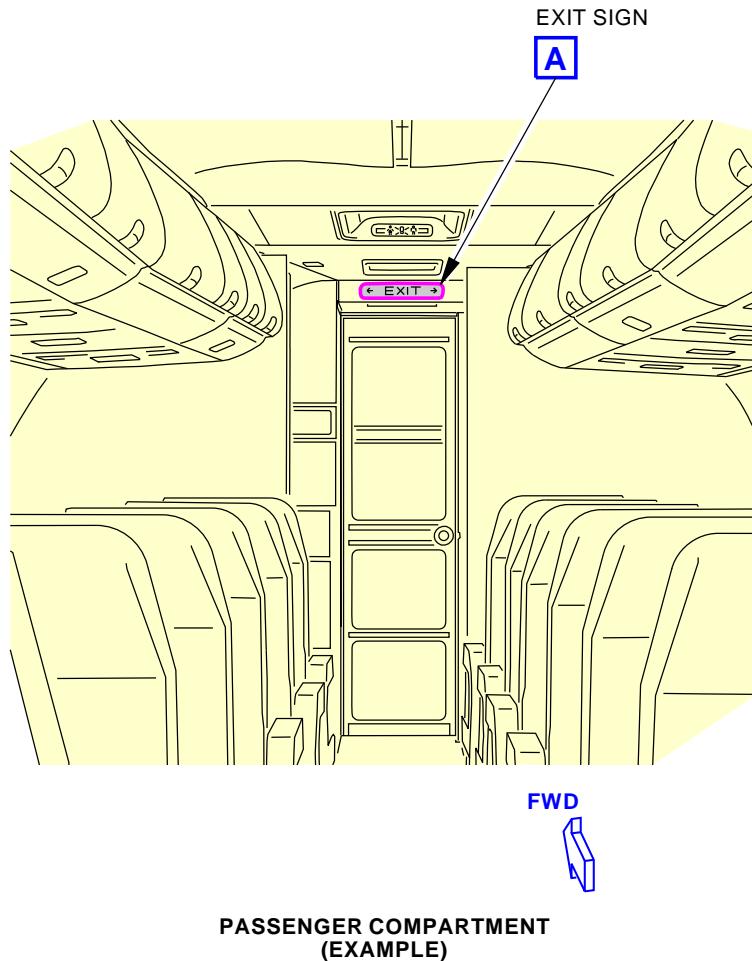
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Exit Sign - Lamp Replacement
Figure 201/33-51-01-990-801 (Sheet 1 of 6)

EFFECTIVITY
AKS ALL

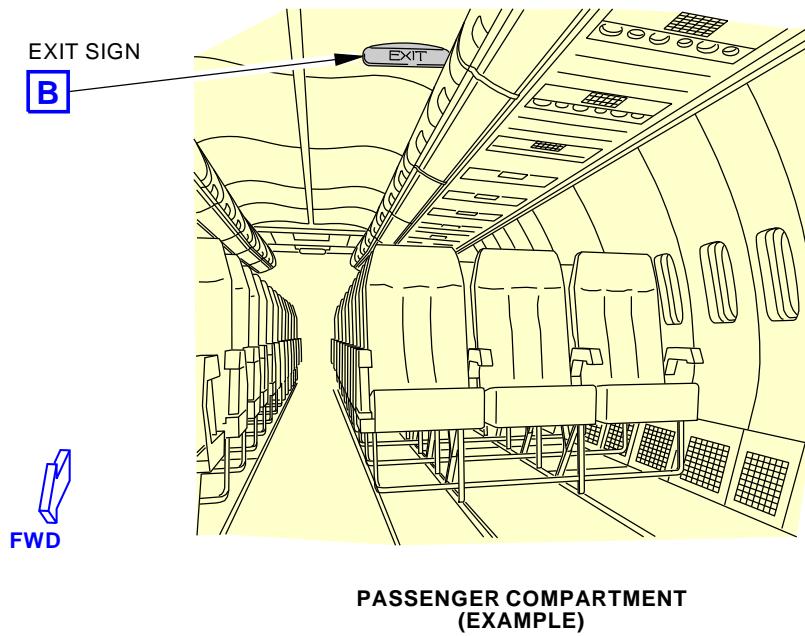
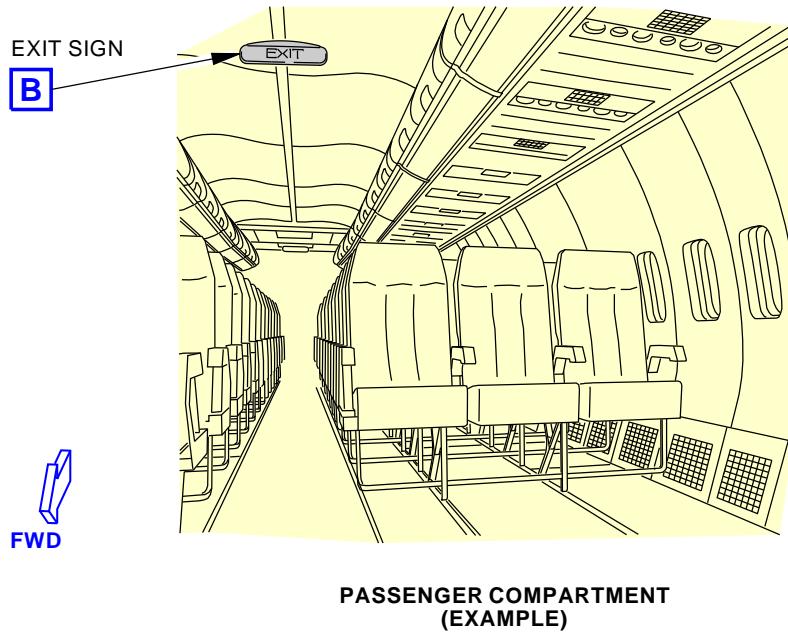
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1739014 S0000312054_V2

Exit Sign - Lamp Replacement
Figure 201/33-51-01-990-801 (Sheet 2 of 6)

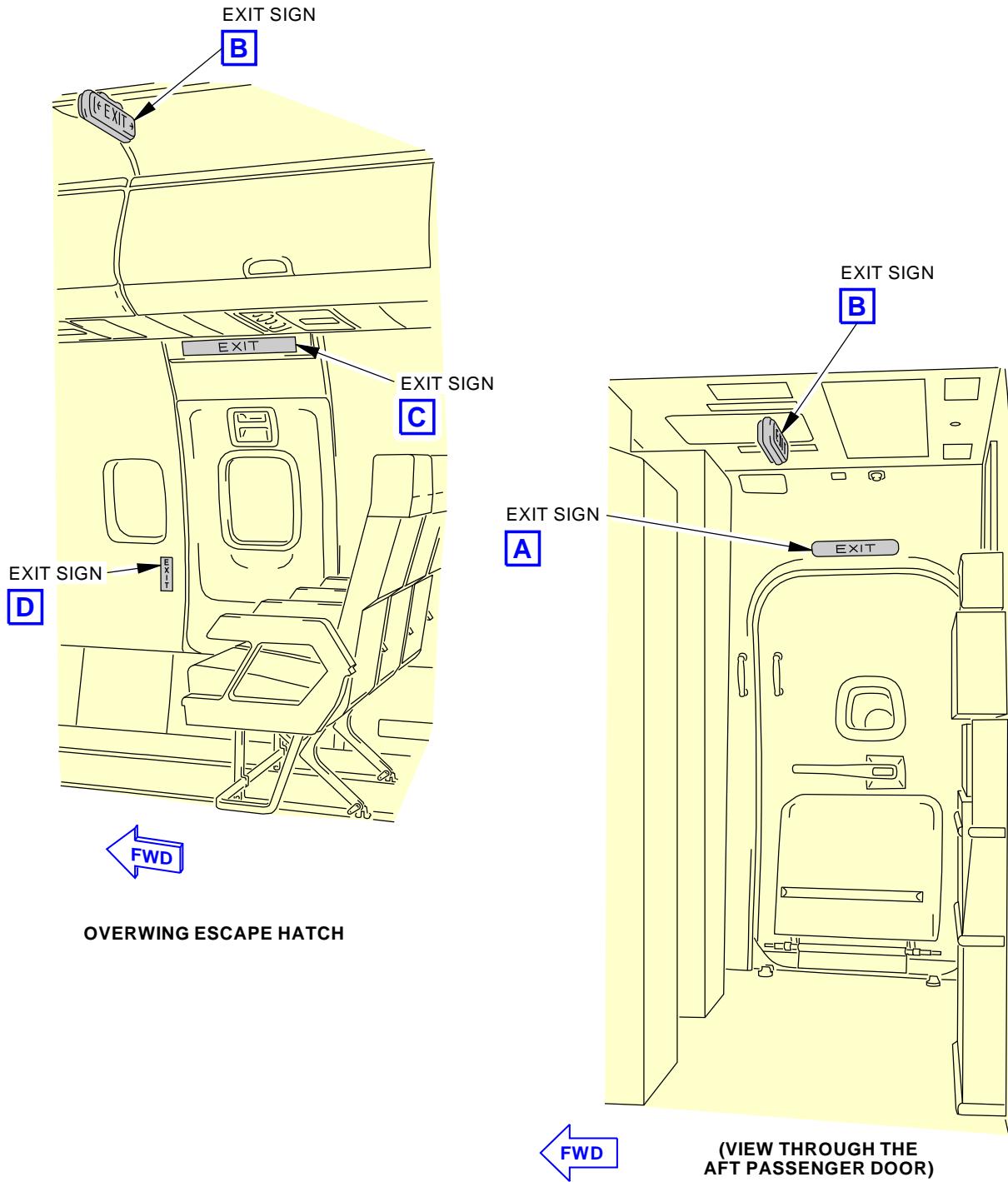
EFFECTIVITY
AKS ALL

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F60596 S0006576370_V2

Exit Sign - Lamp Replacement
Figure 201/33-51-01-990-801 (Sheet 3 of 6)

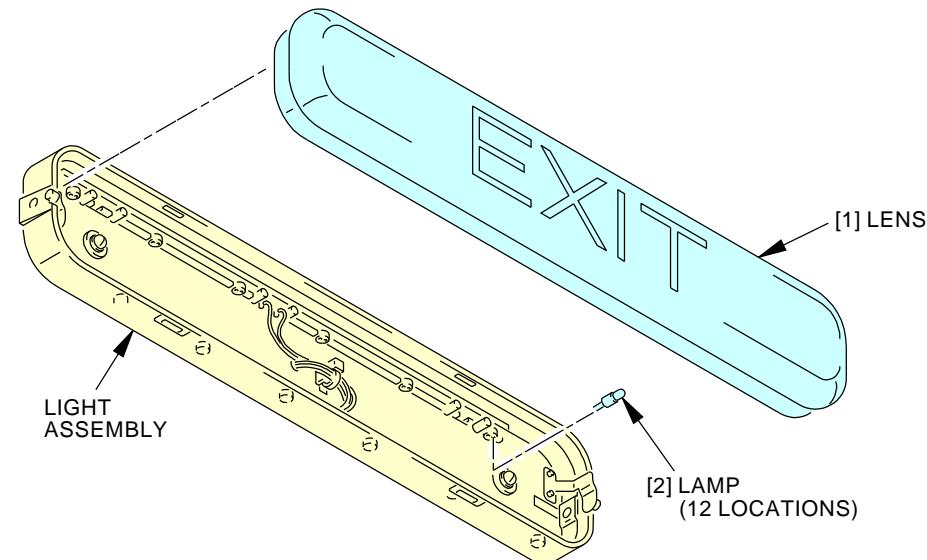
EFFECTIVITY
AKS ALL

33-51-01

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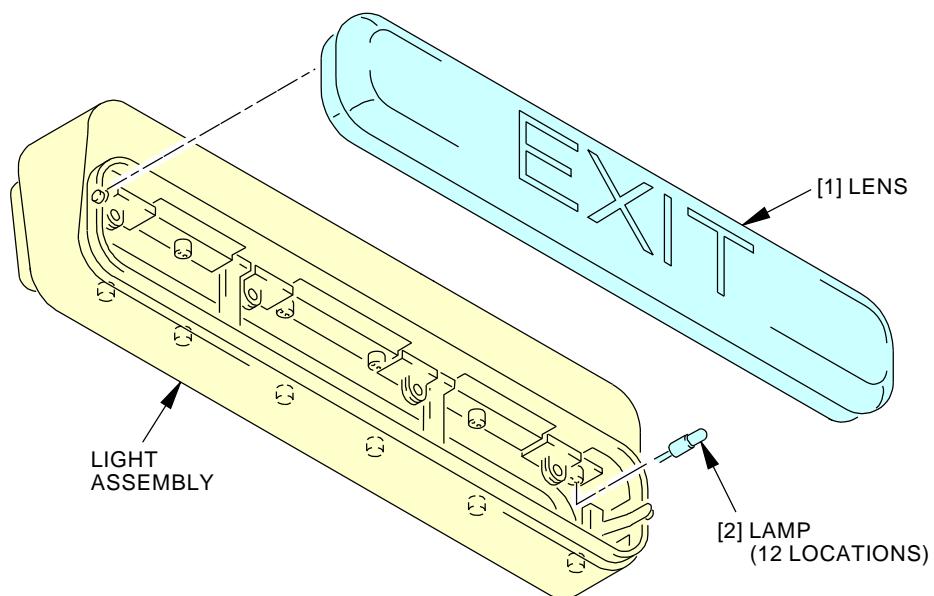


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EXIT SIGN
(EXAMPLE)

A



EXIT SIGN
(EXAMPLE)

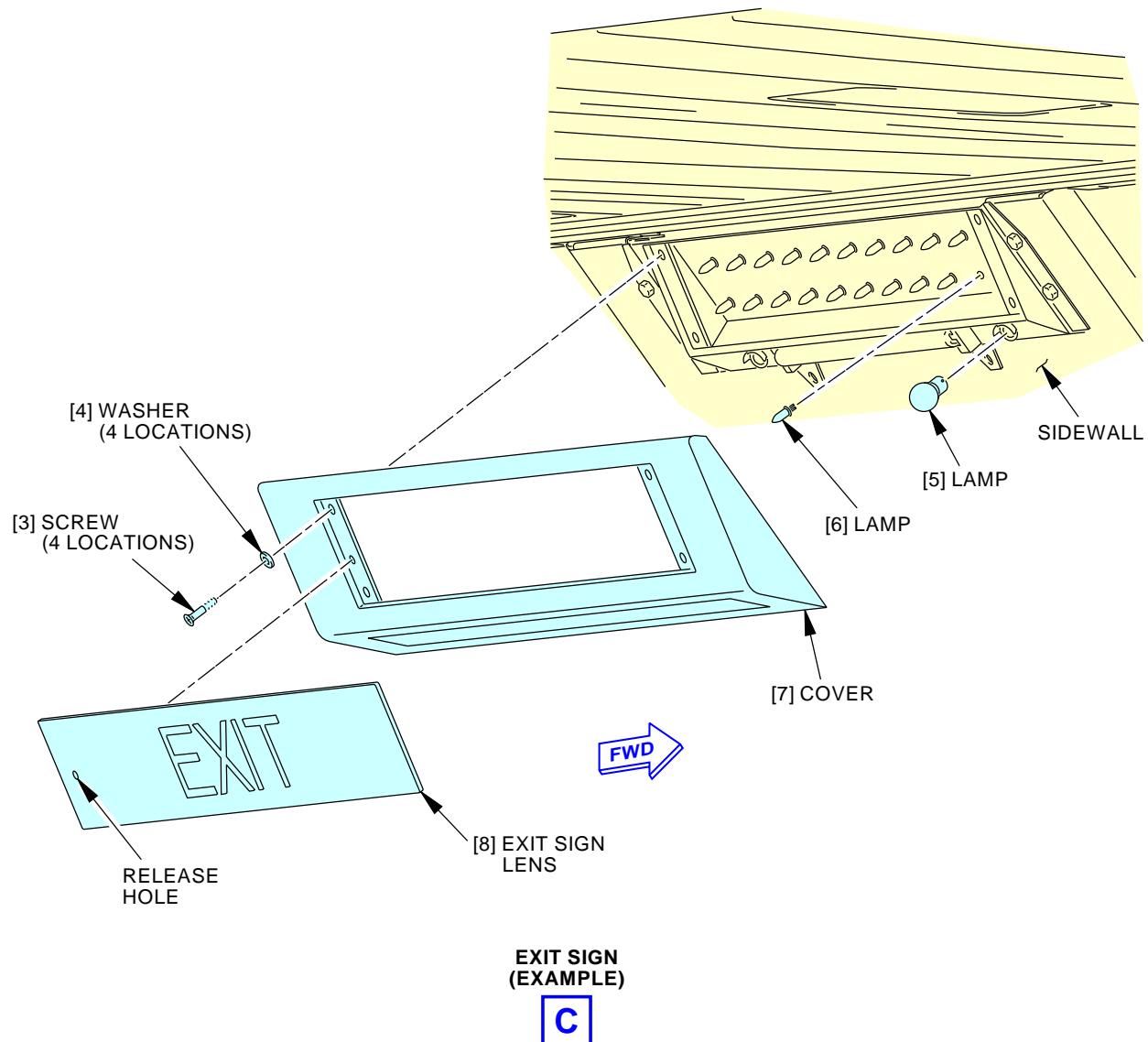
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G82176 S0006576371_V2

Exit Sign - Lamp Replacement
Figure 201/33-51-01-990-801 (Sheet 4 of 6)

EFFECTIVITY
AKS ALL

33-51-01



G82178 S0006576372_V2

Exit Sign - Lamp Replacement
Figure 201/33-51-01-990-801 (Sheet 5 of 6)

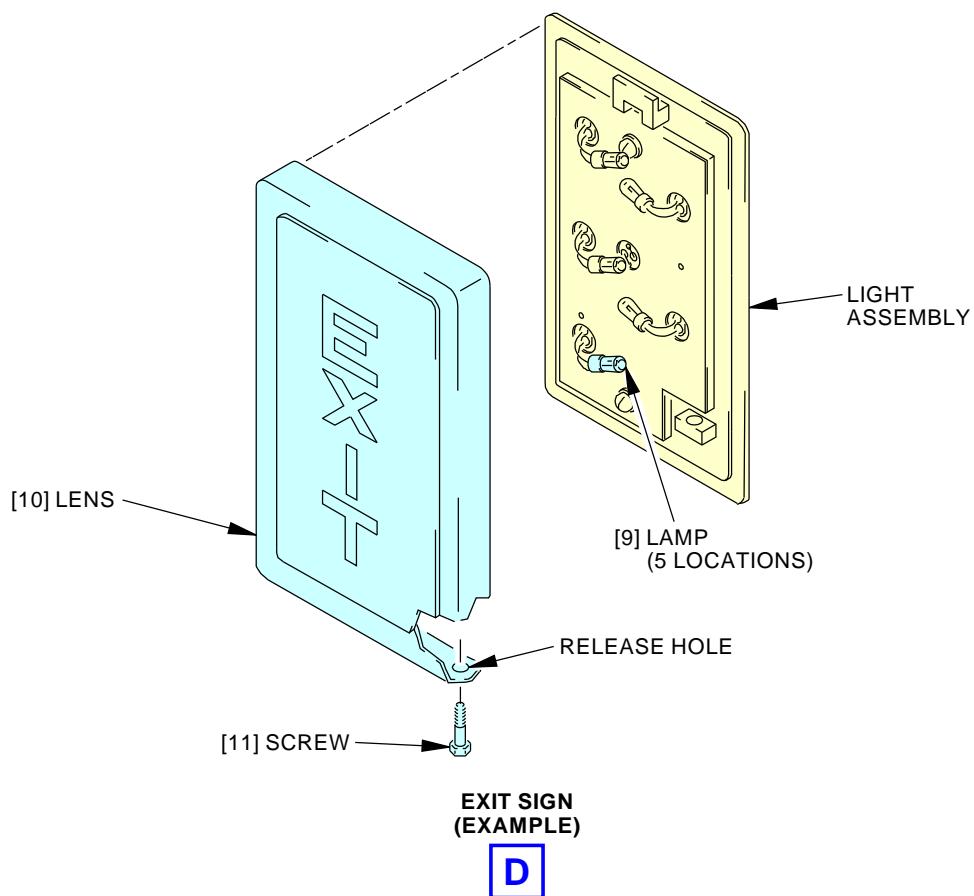
EFFECTIVITY
AKS ALL

33-51-01

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Exit Sign - Lamp Replacement
Figure 201/33-51-01-990-801 (Sheet 6 of 6)

EFFECTIVITY
AKS ALL

33-51-01



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TASK 33-51-01-960-802

3. Exit Sign - Light Assembly Replacement

(Figure 202)

A. References

Reference	Title
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

Zone	Area
200	Upper Half of Fuselage

C. Procedure

AKS 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
A	8	C01403	PASSENGER CABIN PASS CALL LEFT
A	9	C00073	PASSENGER CABIN CREW CALL
A	10	C01357	PASS CABIN LIGHTING EMER CHGR L AFT
A	11	C00250	PASS CABIN LIGHTING EMER CHGR FWD
B	8	C01404	PASSENGER CABIN PASS CALL RIGHT
B	10	C01358	PASS CABIN LIGHTING EMER CHGR R AFT

AKS 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.

SUBTASK 33-51-01-040-002

- (3) Make sure that at the applicable attendant panel, the emergency light switch is in the off mode.

AKS ALL; AIRPLANES WITH THE EXIT SIGN INSTALLED ABOVE THE EMERGENCY EXIT DOOR

SUBTASK 33-51-01-410-008

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

Power Distribution Panel Number 2, P92

Row	Col	Number	Name
E	11	C00594	WINDOW LIGHT RIGHT
E	12	C00776	WINDOW LIGHT LEFT

AKS ALL

SUBTASK 33-51-01-010-001

- (5) Get access to the screws and washers that hold the applicable light assembly in its position.

EFFECTIVITY _____

AKS ALL

33-51-01



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AKS ALL; AIRPLANES WITH THE EXIT SIGN INSTALLED ABOVE A DOOR

- (a) Pull off the lens [1].

AKS ALL; AIRPLANES WITH THE EXIT SIGN ATTACHED TO A CEILING PANEL

- (b) Open an adjacent access or ceiling panel.

AKS 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].

AKS ALL

- (d) Use a No. 4 allen wrench to loosen the screw [36] at a release hole, then pull off the lens [10].

SUBTASK 33-51-01-960-002

WARNING: DO NOT TOUCH THE METAL PINS IN THE ELECTRICAL CONNECTOR. WHEN ELECTRICAL POWER IS SUPPLIED TO THE LIGHT, ELECTRICAL SHOCK CAN OCCUR.

- (6) 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):
 - (a) Remove the screws [21], screws [27], screws [31], or screws [35] and washers [22], washers [26], or washers [34].
 - (b) Disconnect the electrical connectors [23], electrical connectors [28], or electrical connectors [32].
 - (c) Replace the light assembly [24], light assembly [25], light assembly [29], or light assembly [33].
 - 1) Make sure lamps are installed in the new light assembly.
 - (d) Connect the electrical connectors [23], electrical connectors [28], or electrical connectors [32] to the new light assembly.
 - (e) Install the washers [22], washers [26], or washers [34], and screws [21], screws [27], screws [31], or screws [35].

SUBTASK 33-51-01-710-002

- (7) 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 the new exit sign comes on.
- (b) Set the switch to the off mode.
 - 1) Make sure all emergency lights go off.

SUBTASK 33-51-01-410-003

- (8) If an access or ceiling panel was opened, close it.

SUBTASK 33-51-01-410-007

- (9) If a cover [7] on an overwing exit sign was removed, install it.

EFFECTIVITY
AKS ALL

D633A101-AKS



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SUBTASK 33-51-01-410-004

- (10) If a lens [1], lens [8], or lens [10] was removed, install it.

AKS ALL; AIRPLANES WITH THE EXIT SIGN INSTALLED ABOVE THE EMERGENCY EXIT DOOR

SUBTASK 33-51-01-410-009

- (11) 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>
E	11	C00594	WINDOW LIGHT RIGHT
E	12	C00776	WINDOW LIGHT LEFT

AKS ALL; AIRPLANES WITH THE EXIT SIGN INCLUDES A MASTER CALL LIGHT MODULE

SUBTASK 33-51-01-410-005

- (12) 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	8	C01403	PASSENGER CABIN PASS CALL LEFT
A	9	C00073	PASSENGER CABIN CREW CALL
A	10	C01357	PASS CABIN LIGHTING EMER CHGR L AFT
A	11	C00250	PASS CABIN LIGHTING EMER CHGR FWD
B	8	C01404	PASSENGER CABIN PASS CALL RIGHT
B	10	C01358	PASS CABIN LIGHTING EMER CHGR R AFT

AKS ALL

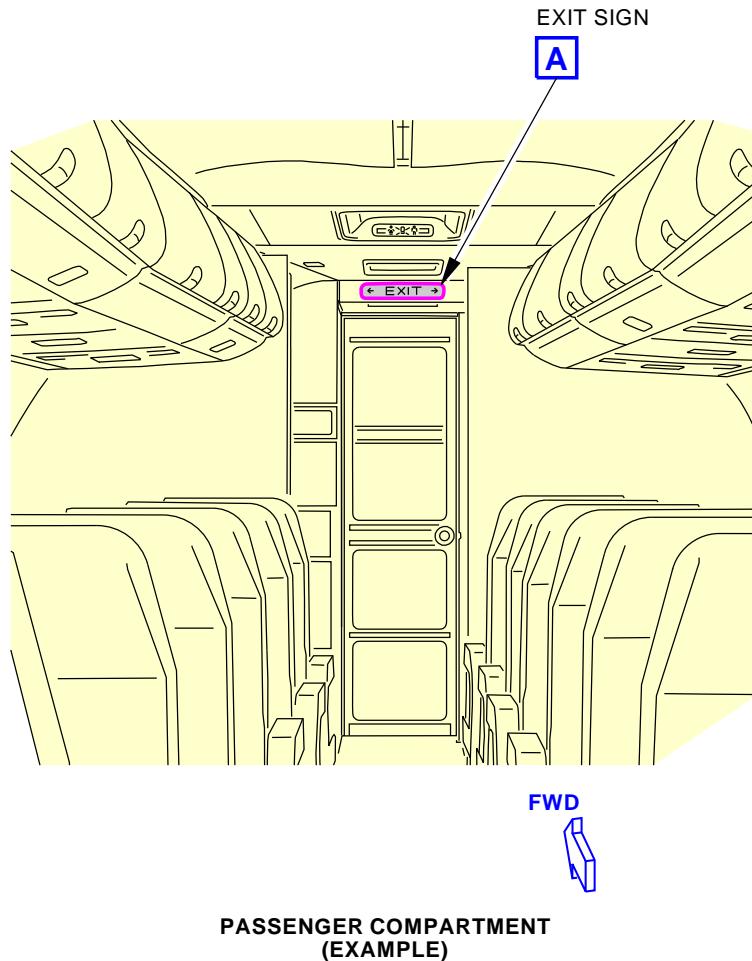
———— END OF TASK ————



33-51-01



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F60481 S0006576369_V4

Exit Sign - Light Assembly Replacement
Figure 202/33-51-01-990-802 (Sheet 1 of 6)

EFFECTIVITY
AKS ALL

33-51-01

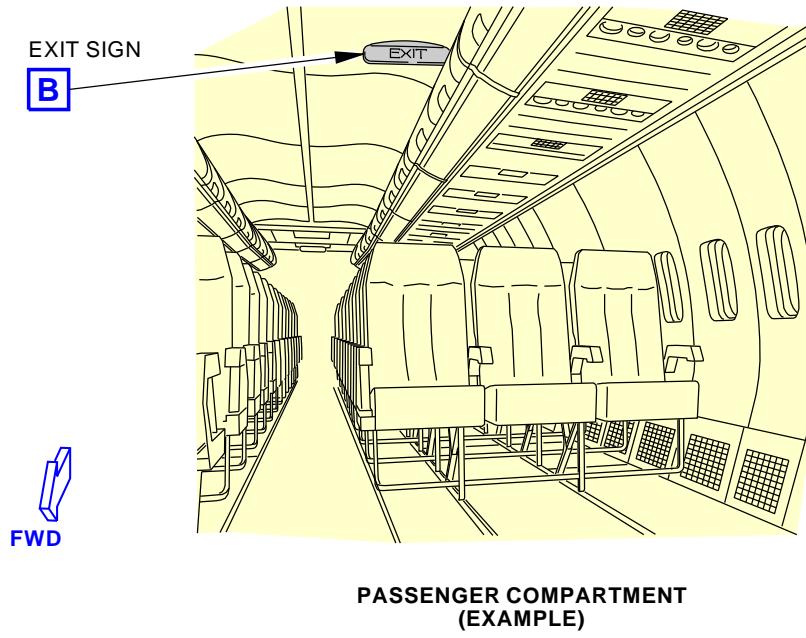
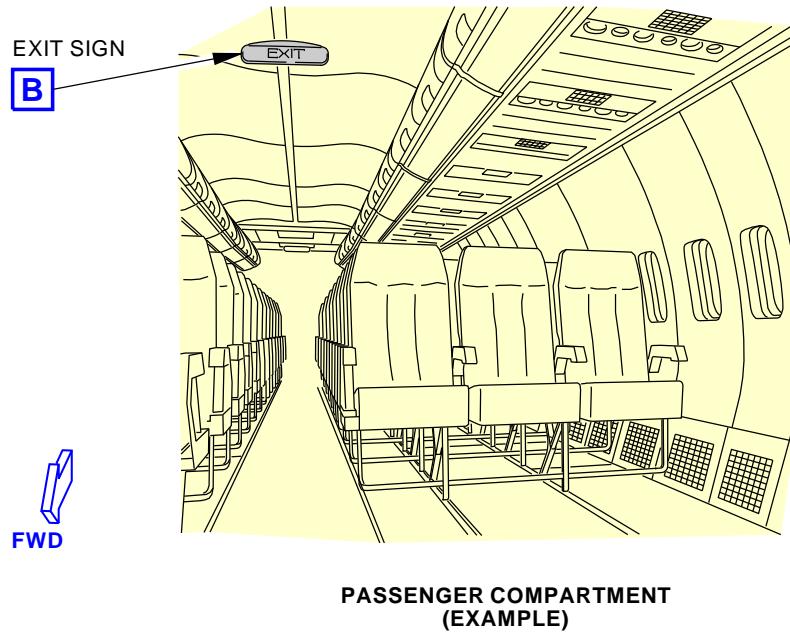
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AIRCRAFT MAINTENANCE MANUAL



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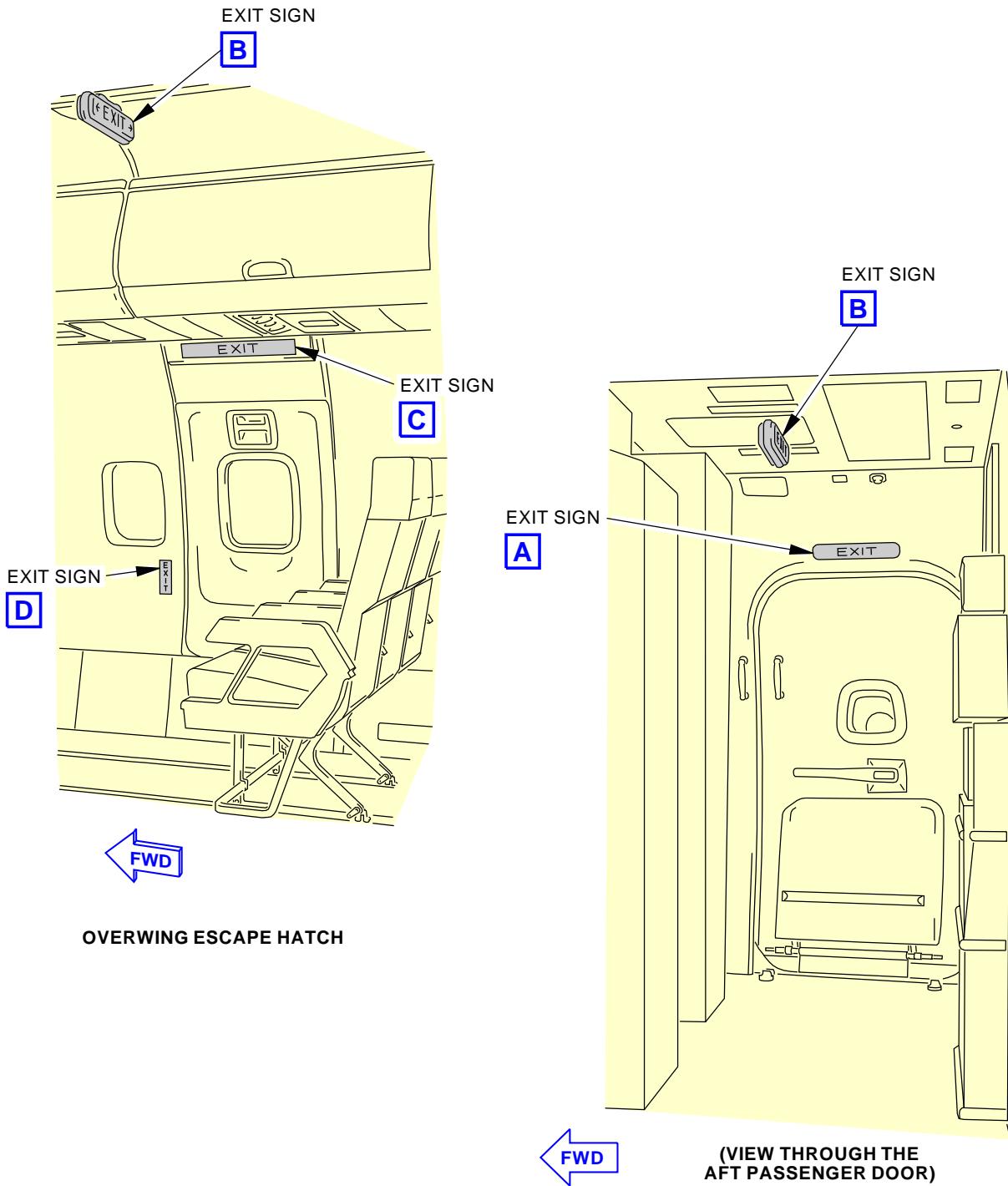
Exit Sign - Light Assembly Replacement
Figure 202/33-51-01-990-802 (Sheet 2 of 6)

EFFECTIVITY
AKS ALL

D633A101-AKS

33-51-01

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F60599 S0006576376_V2

Exit Sign - Light Assembly Replacement
Figure 202/33-51-01-990-802 (Sheet 3 of 6)

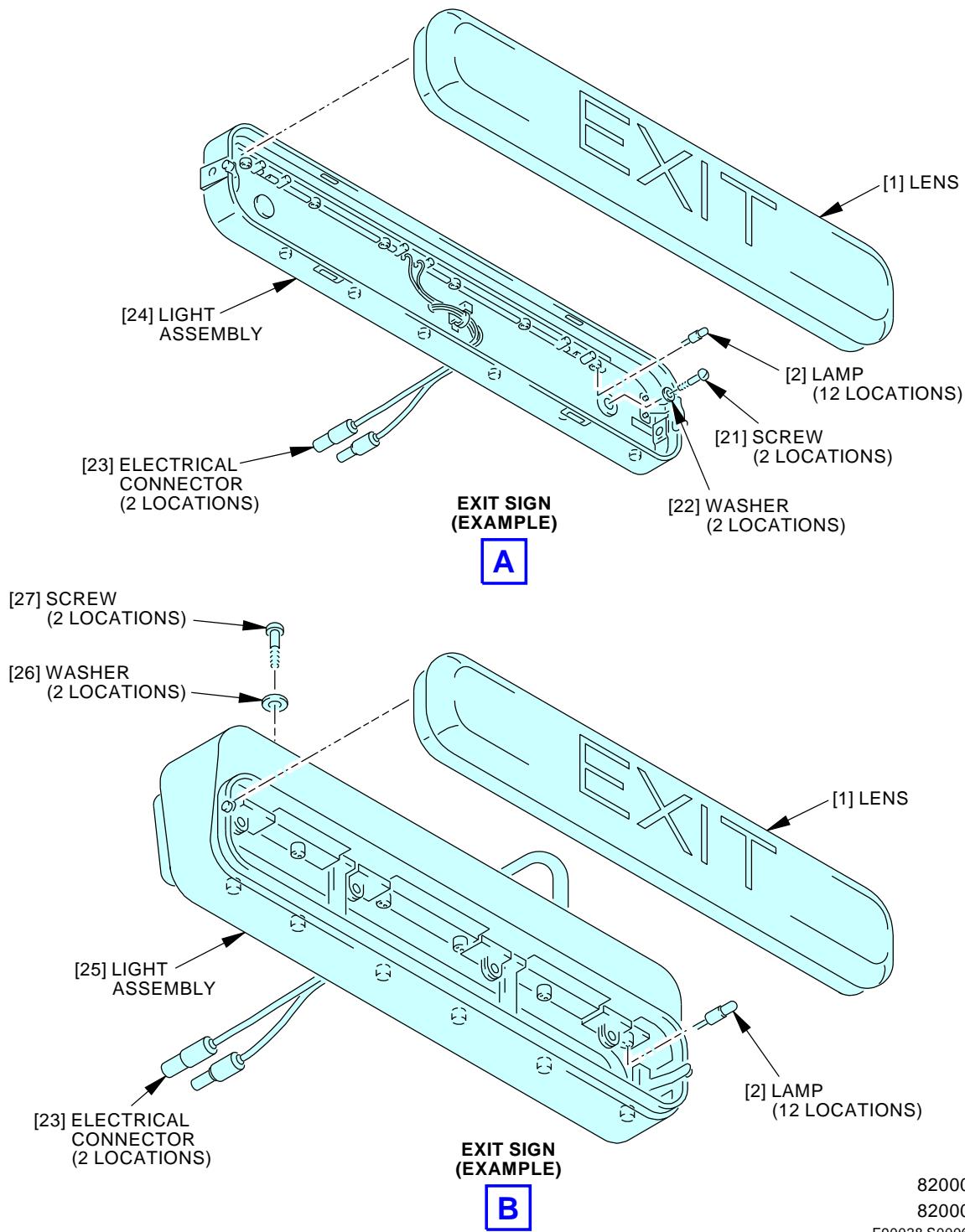
 EFFECTIVITY
 AKS ALL

33-51-01

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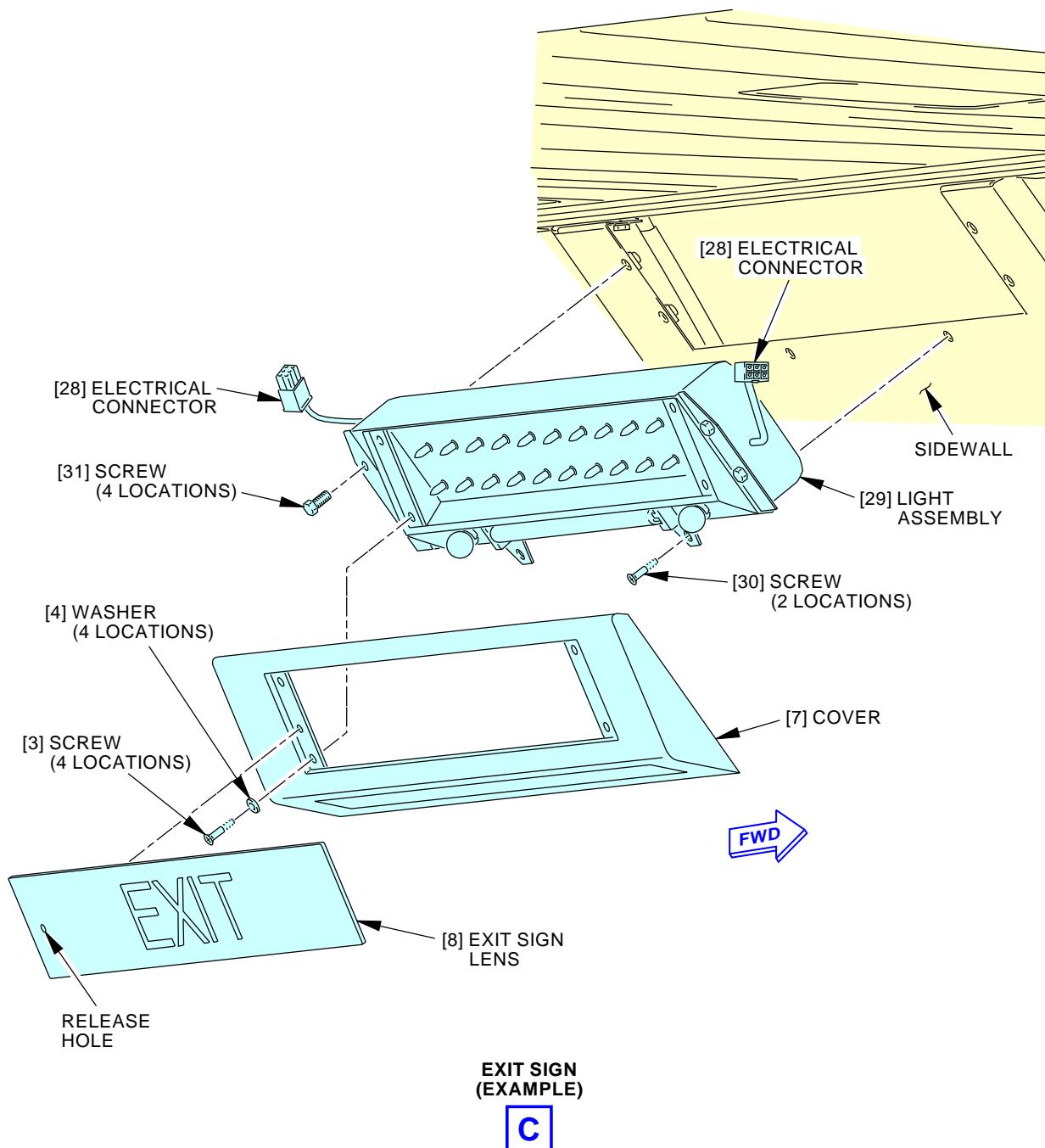
Exit Sign - Light Assembly Replacement
Figure 202/33-51-01-990-802 (Sheet 4 of 6)

EFFECTIVITY
AKS ALL

33-51-01



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G82546 S0006576378_V2

Exit Sign - Light Assembly Replacement
Figure 202/33-51-01-990-802 (Sheet 5 of 6)

EFFECTIVITY
AKS ALL

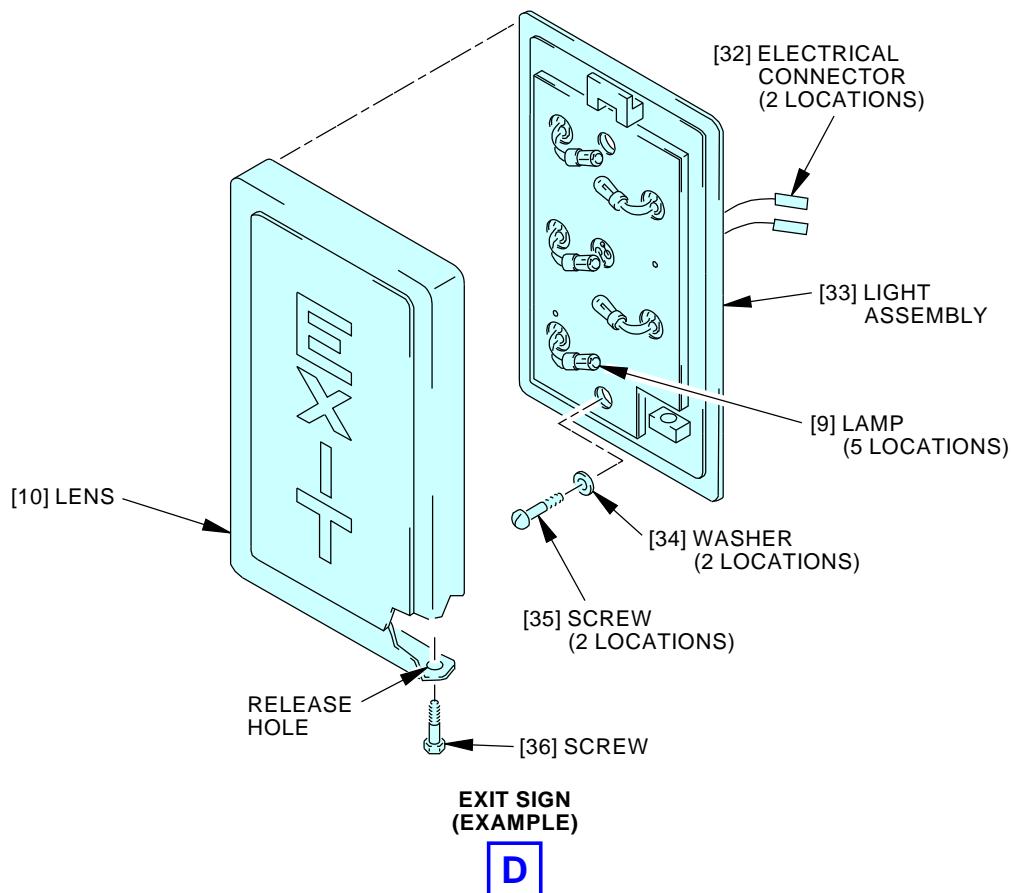
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AIRCRAFT MAINTENANCE MANUAL



G82547 S0006576379_V3

Exit Sign - Light Assembly Replacement
Figure 202/33-51-01-990-802 (Sheet 6 of 6)

EFFECTIVITY
AKS ALL

33-51-01



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AIRCRAFT MAINTENANCE MANUAL
AREA LIGHTS - MAINTENANCE PRACTICES

1. General

- A. This procedure has these tasks:
- (1) Emergency Aisle Light (EAL) - Lens Replacement
 - (2) Emergency Aisle Light (EAL) – Assembly Replacement

TASK 33-51-03-960-803

2. Emergency Aisle Light (EAL) - Lens Replacement

(Figure 201)

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. Procedure

SUBTASK 33-51-03-010-001

- (1) Do these steps to 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) Do these steps to 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].

EFFECTIVITY
AKS ALL

33-51-03



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AIRCRAFT MAINTENANCE MANUAL

- (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.

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 switch to the off mode.
 - 1) Make sure that all emergency lights go off.

———— END OF TASK ————

EFFECTIVITY
AKS ALL

33-51-03

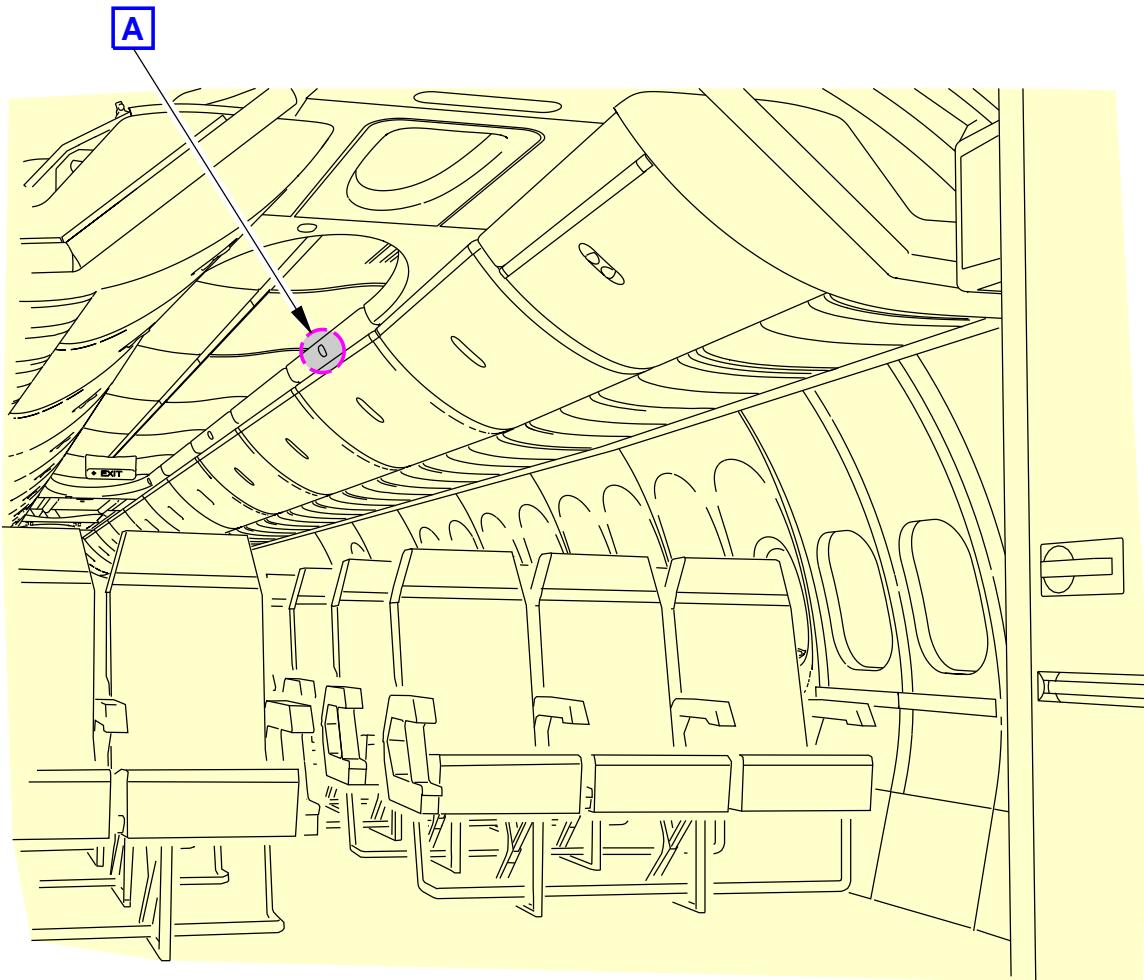
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AIRCRAFT MAINTENANCE MANUAL



PASSENGER COMPARTMENT

2178138 S0000480795_V2

Emergency Aisle Light (EAL) - Lens Replacement
Figure 201/33-51-03-990-803 (Sheet 1 of 2)

EFFECTIVITY
AKS ALL

33-51-03

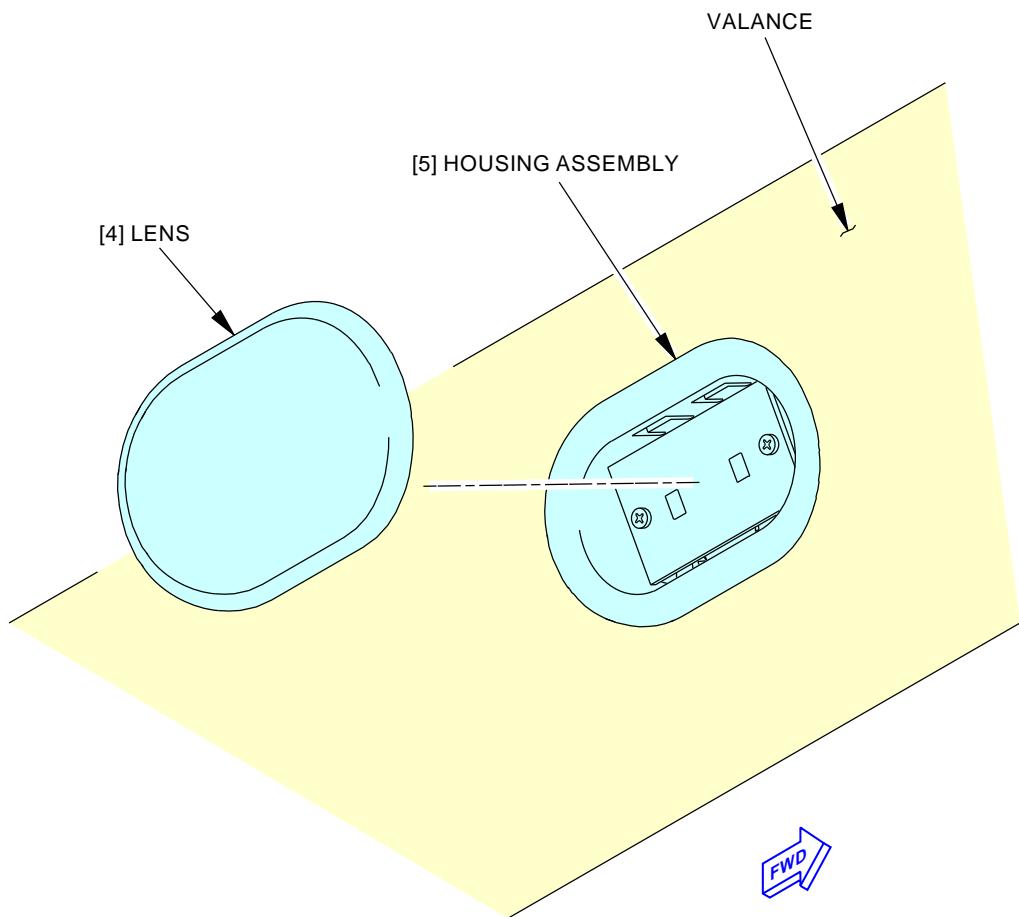
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EMERGENCY AISLE LIGHT (EAL)
(EXAMPLE)

A

2178164 S0000480796_V2

Emergency Aisle Light (EAL) - Lens Replacement
Figure 201/33-51-03-990-803 (Sheet 2 of 2)

EFFECTIVITY
AKS ALL

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TASK 33-51-03-960-805

3. Emergency Aisle Light (EAL) – Assembly Replacement

(Figure 202)

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	33-51-03-90A-085	AKS ALL
		33-51-03-90A-380	AKS ALL
		33-51-03-90B-035	AKS ALL
		33-51-03-90D-040	AKS ALL
		33-51-03-90E-040	AKS ALL
		33-51-03-92-055	AKS ALL
		33-51-03-92-160	AKS ALL

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Procedure

SUBTASK 33-51-03-010-003

- (1) Do these steps to remove the emergency aisle light (EAL) assembly [8]:

- (a) 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.
- (b) Get access behind the valance assembly.
- (c) Disconnect the electrical connector [9].
- (d) Remove the retaining ring [10].
- (e) Remove the gasket [11].
 - 1) Replace the gasket [11] if damaged.
- (f) Remove the emergency aisle light (EAL) assembly [8].

SUBTASK 33-51-03-410-003

- (2) Do these steps to install the emergency aisle light (EAL) assembly [8]:

- (a) Install the emergency aisle light (EAL) assembly [8] from the outer side (decorative side) of the valance assembly.
 - 1) Put the electrical connector [9] through the hole of the valance assembly.
- (b) 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.
- (c) Get access behind the valance assembly.
- (d) Install the new gasket [11].



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- (e) Install the retaining ring [10] that attaches the emergency aisle light (EAL) assembly [8] to the valance assembly.
 - 1) Make sure that the emergency aisle light (EAL) assembly [8] attaches into the correct position.
- (f) Connect the electrical connector [9].
- (g) 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

- (3) 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.

- (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 switch to the off mode.
 - 1) Make sure that all emergency lights go off.

———— END OF TASK ————

EFFECTIVITY
AKS ALL

33-51-03

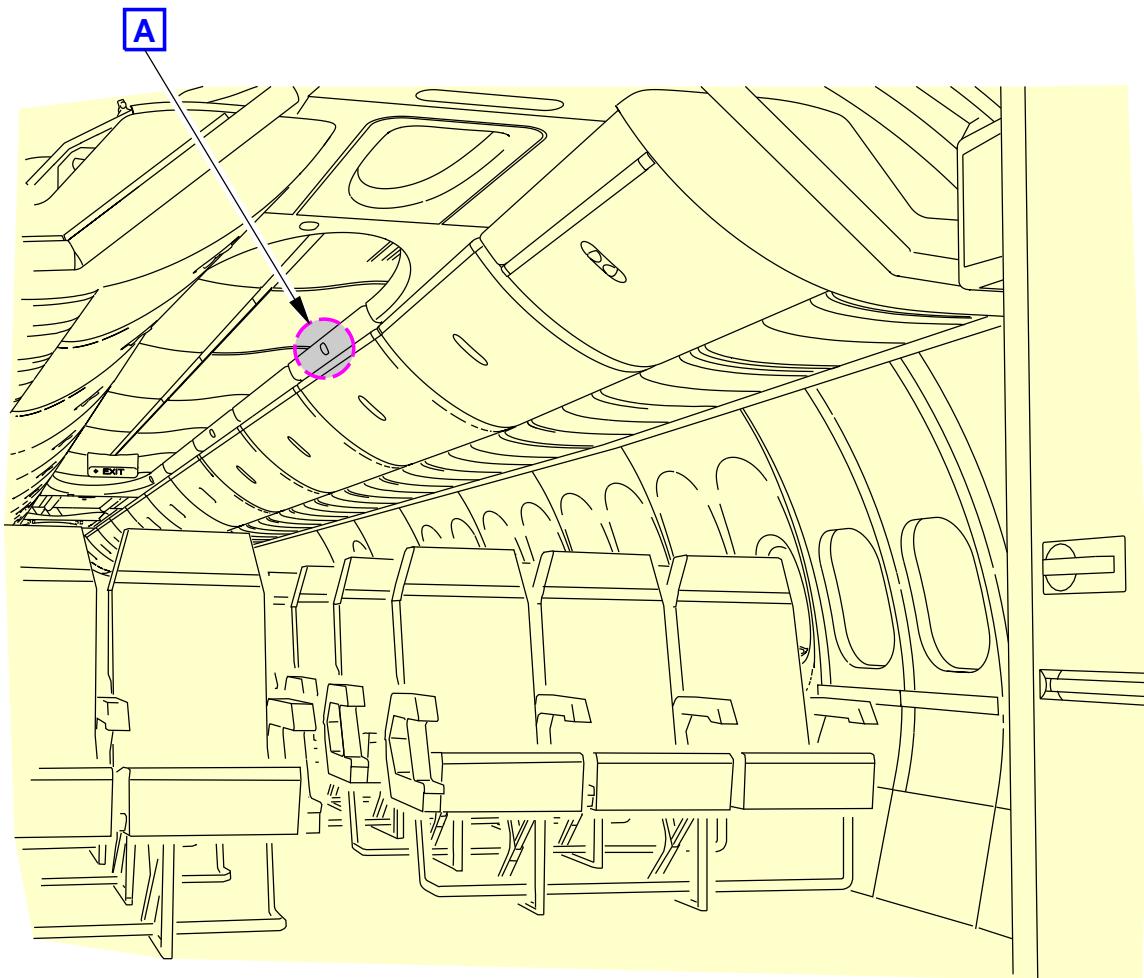
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AIRCRAFT MAINTENANCE MANUAL



PASSENGER COMPARTMENT

2178141 S0000480800_V2

Emergency Aisle Light (EAL) - Assembly Replacement
Figure 202/33-51-03-990-805 (Sheet 1 of 2)

EFFECTIVITY
AKS ALL

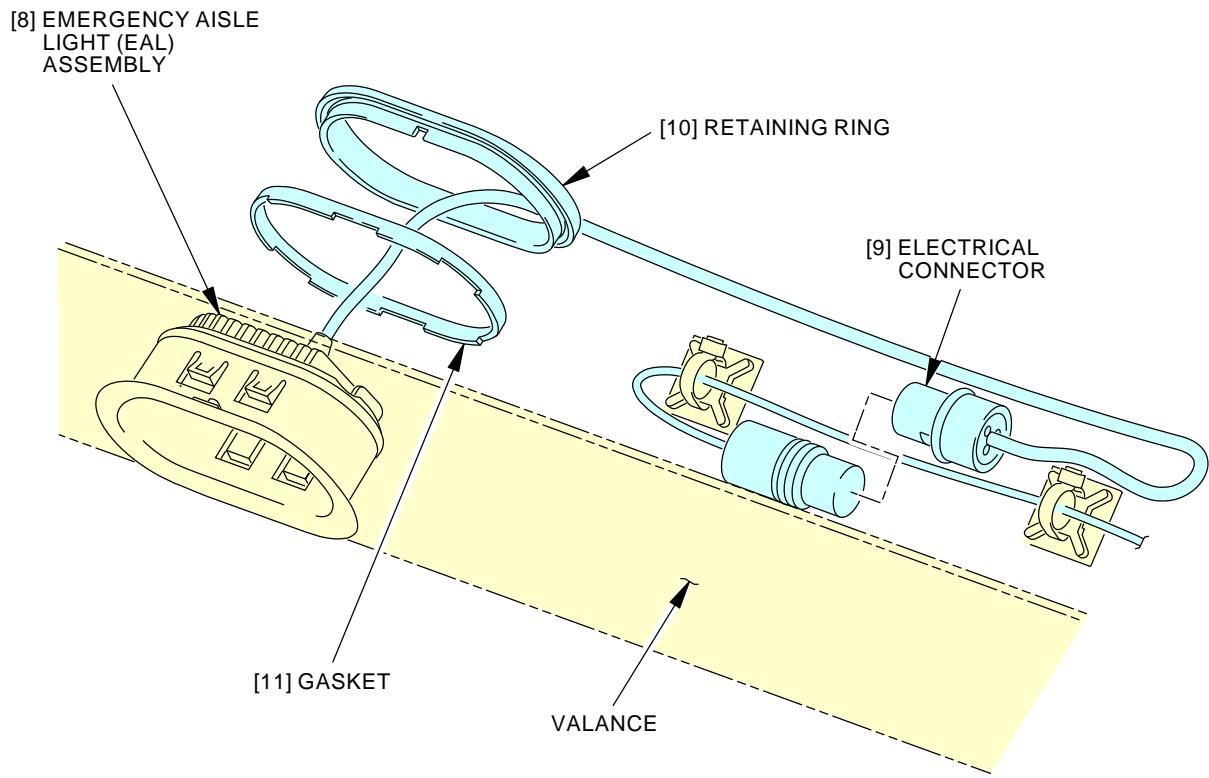
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**EMERGENCY AISLE LIGHT (EAL)
(EXAMPLE)**

A

2178269 S0000480801_V2

Emergency Aisle Light (EAL) - Assembly Replacement
Figure 202/33-51-03-990-805 (Sheet 2 of 2)

EFFECTIVITY
AKS ALL

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AIRCRAFT MAINTENANCE MANUAL

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
WDM 33-51-12	Wiring Diagram Manual
WDM 33-51-14	Wiring Diagram Manual

C. Consumable Materials

Reference	Description	Specification
G02309	Material - Moldable Plastic Shim	BMS8-338

D. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
4	Lamp	33-51-04-06A-075	AKS ALL
8	Lamp	33-51-00-52-075	AKS ALL

E. Location Zones

Zone	Area
200	Upper Half of Fuselage

F. Procedure

SUBTASK 33-51-04-960-001

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 33-51-12 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) Replace the lamp [4] or lamp [8].
 - (c) If the shims on the lens assembly [3] or lens assembly [7] gasket are damaged, replace them.
 - 1) Remove the unwanted shim material.



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- 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] and tighten the fasteners [2] or fasteners [6] until the lens assembly 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 shim thickness is no more than 0.125 in. (0.318 cm).
- (d) Install the lens assembly [3] or lens assembly [7], and tighten the fasteners [2] or fasteners [6].

SUBTASK 33-51-04-710-001

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

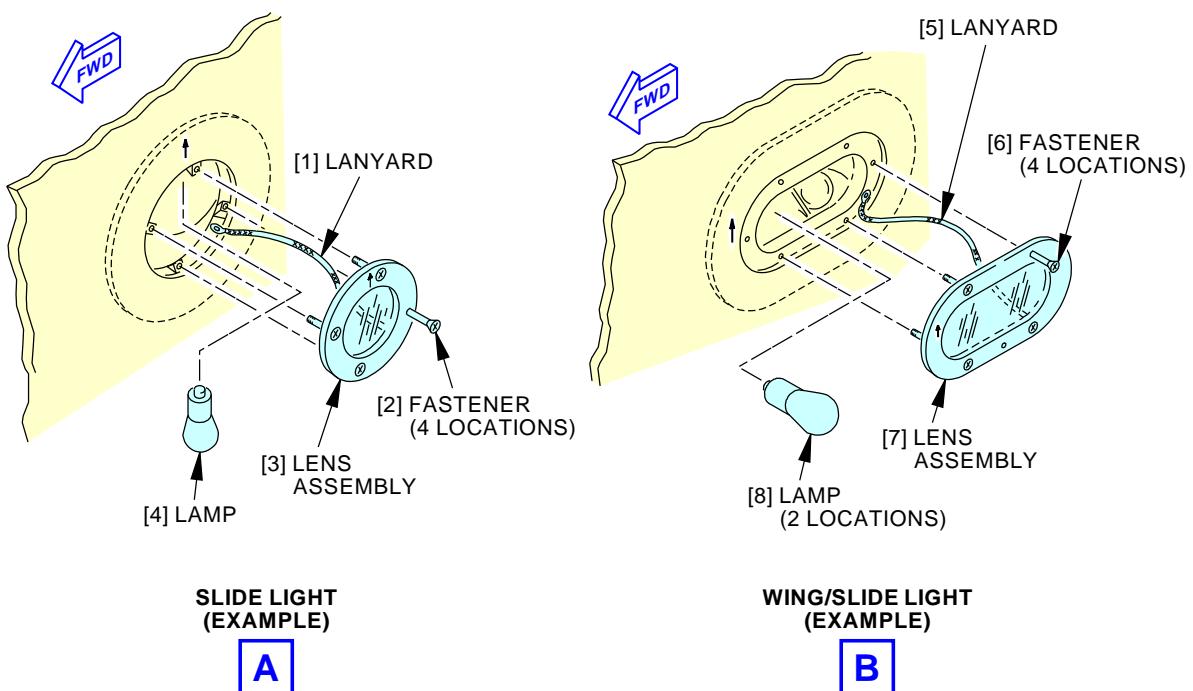
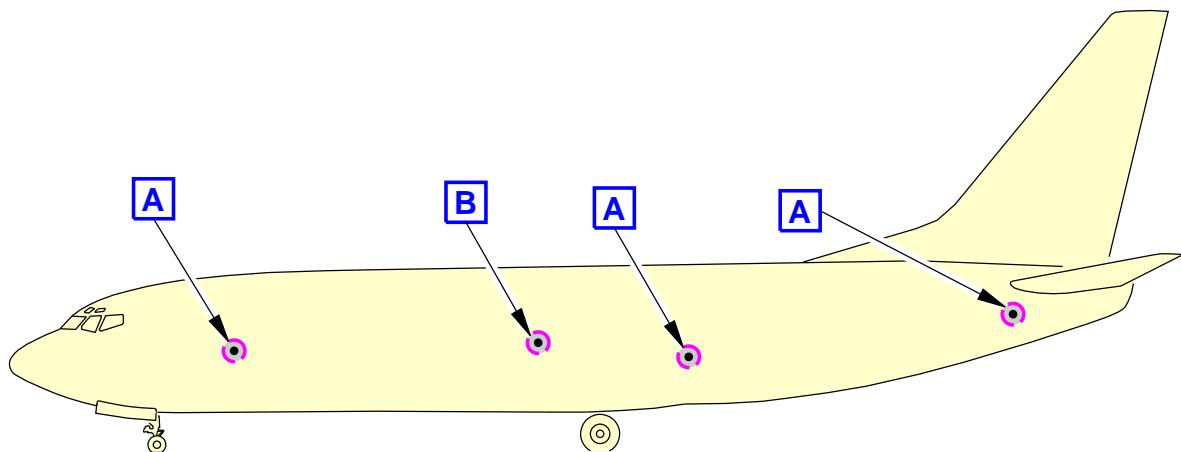
NOTE: The battery packs supply electrical power to the emergency lights. Use the lights for a minimum time to do the test.

- (a) At the pilots overhead panel, P5, or the attendant panel, set the emergency light switch to the on mode.
 - 1) Make sure the new lamp comes on.
- (b) Set the switch to the off mode.
 - 1) Make sure all emergency lights go off.

———— END OF TASK ————

EFFECTIVITY
AKS ALL

33-51-04



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Slide Light - Lamp Replacement
Figure 201/33-51-04-990-801

 EFFECTIVITY
 AKS 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)

C. 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)	BMS15-5 Class A

D. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
11	Light assembly	33-51-00-03-020	AKS ALL
		33-51-04-01A-005	AKS ALL
		33-51-04-02A-010	AKS ALL
		33-51-04-03A-005	AKS ALL

E. Location Zones

Zone	Area
200	Upper Half of Fuselage

F. Procedure

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.
(TASK 25-21-46-000-801)

SUBTASK 33-51-04-020-001

- (2) From the inside of the cabin, disconnect the electrical connector [14] from the light assembly [11].

SUBTASK 33-51-04-020-002

- (3) Loosen the bolts [12] and collars [13] to remove the light assembly [11].

SUBTASK 33-51-04-110-001

- (4) 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

- (5) Rub dry with a clean, dry cotton wiper, G00034.

SUBTASK 33-51-04-160-002

- (6) Continue to clean and dry the fay surface bonding area until the dry cotton wiper, G00034, stays clean.

EFFECTIVITY
AKS ALL

33-51-04



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SUBTASK 33-51-04-390-001

- (7) Apply sealant, A50231, to the contact surface of the light assembly [11] housing.

SUBTASK 33-51-04-390-002

- (8) Apply sealant, A50231, to the shank and threads of the bolts [12].

SUBTASK 33-51-04-420-001

- (9) Install the light assembly [11] on the aircraft skin using the bolts [12] and collars [13].

- (a) Make sure the sealant, A50231, is continuously squeezed out along the edges of the light assembly [11] housing.
- (b) If there are gaps, bubbles, or voids in the sealant, A50231, squeeze out, then disassemble and apply more sealant, A50231.
- (c) Shape the squeezed out sealant, A50231, into a fillet seal.
- (d) As an option, remove the extra squeezed out sealant, A50231.

NOTE: Make sure the sealant, A50231, that remains is flush with the mating part edges.

SUBTASK 33-51-04-420-002

- (10) From the inside of the cabin, connect the electrical connector [14] to the light assembly [11].

SUBTASK 33-51-04-710-002

- (11) 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) At the P5 overhead panel, or the attendant control panel, set the emergency light switch to the ON mode.
 - 1) Make sure the applicable emergency light comes on.
- (b) Set the switch to the OFF mode.
 - 1) Make sure the applicable emergency lights go off.

G. Put the Airplane Back to Its Usual Condition

SUBTASK 33-51-04-410-001

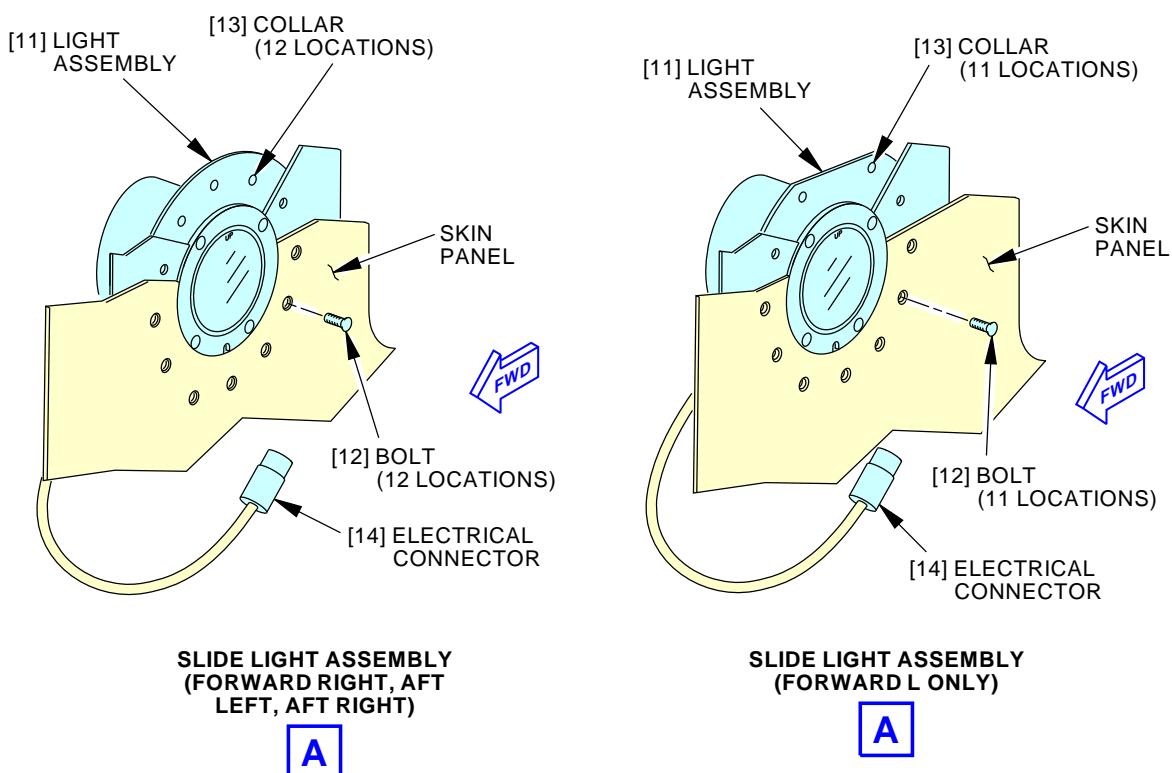
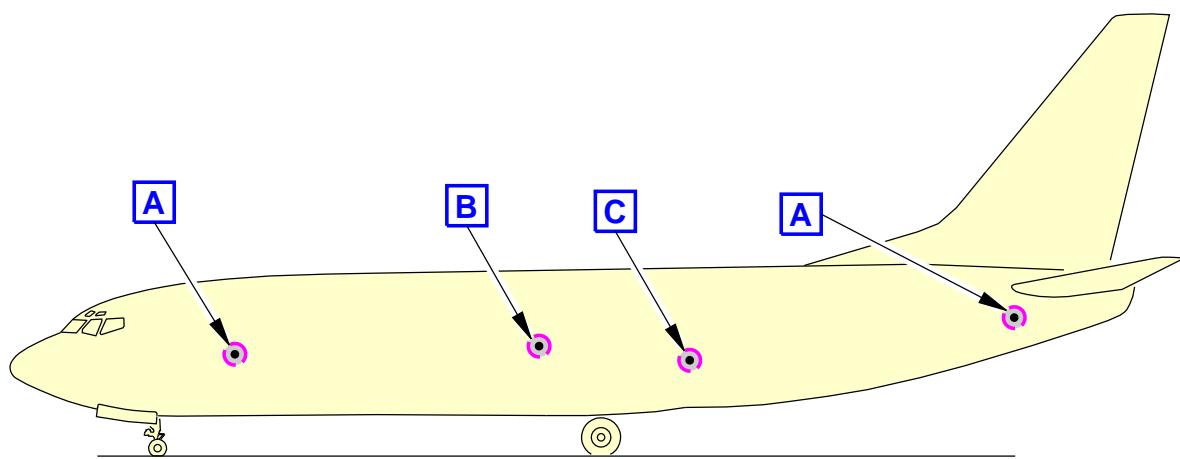
- (1) Install the applicable sidewall panel that was removed to get access to the light assembly from the inside of the cabin.

(TASK 25-21-46-000-801)

———— END OF TASK ————



33-51-04



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Slide Light - Light Assembly Replacement
Figure 202/33-51-04-990-802 (Sheet 1 of 2)

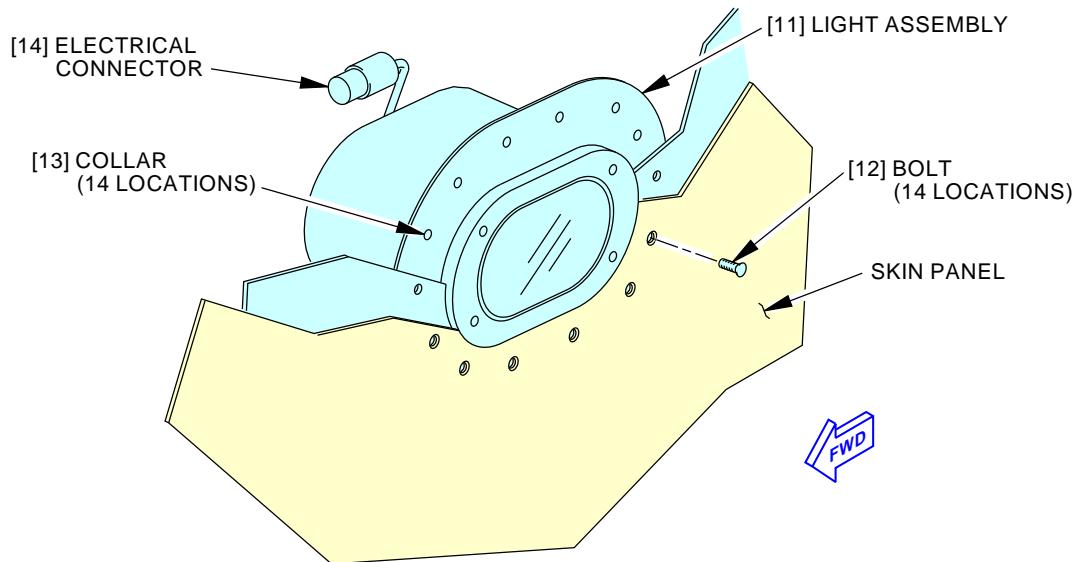
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AKS ALL

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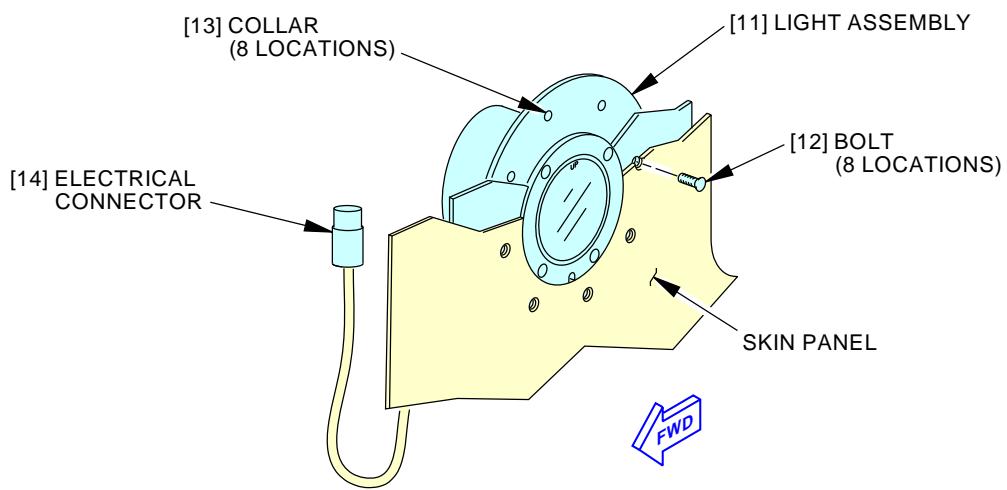


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SLIDE LIGHT ASSEMBLY

B



SLIDE LIGHT ASSEMBLY

C

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Slide Light - Light Assembly Replacement
Figure 202/33-51-04-990-802 (Sheet 2 of 2)

EFFECTIVITY
AKS ALL

33-51-04



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AIRCRAFT MAINTENANCE MANUAL

POWER SUPPLIES - MAINTENANCE PRACTICES

1. General

- A. This procedure contains scheduled maintenance task data.
- B. This procedure has these tasks:

NOTE: See (WDM 33-51-11) 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. Procedure

SUBTASK 33-51-06-860-007

- (1) Make sure the pilots emergency light switch on the overhead panel, P5, is set to the off mode.

SUBTASK 33-51-06-860-008

- (2) Make sure the attendants emergency light switch in the passenger compartment is set to the off mode.

SUBTASK 33-51-06-860-009

- (3) To charge the battery packs, do this task: Supply Electrical Power, 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, maximum time necessary to charge them is 90 minutes.

SUBTASK 33-51-06-860-010

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

———— END OF TASK ————



33-51-06



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

TASK 33-51-06-960-804

3. Power Supply - Fuse Replacement

(Figure 201)

A. References

Reference	Title
WDM 33-51-11	Wiring Diagram Manual
WDM 33-51-11 thru 33-51-21	Wiring Diagram Manual
WDM 33-51-12 thru 33-51-21	Wiring Diagram Manual

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
4	Battery pack	33-51-06-12-046	AKS ALL
		33-51-06-30-025	AKS ALL
		33-51-06-31-050	AKS ALL
8	Fuse	33-51-06-12-048	AKS ALL
		33-51-06-30-040	AKS ALL
		33-51-06-31-065	AKS ALL

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Procedure

SUBTASK 33-51-06-860-011

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
A	10	C01357	PASS CABIN LIGHTING EMER CHGR L AFT
A	11	C00250	PASS CABIN LIGHTING EMER CHGR FWD
B	10	C01358	PASS CABIN LIGHTING EMER CHGR R AFT

SUBTASK 33-51-06-010-003

- (2) Get access to the power supply:

NOTE: Use the WDM to identify power supply locations (WDM 33-51-11 thru 33-51-21).

AKS ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED NEAR THE FORWARD ENTRY DOOR

- (a) Lower the left side of the entry light.

AKS ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED NEAR THE AFT ENTRY DOOR

- (b) Open the access panel in the lowered ceiling panel.

AKS ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED ALONG THE SIDEWALL NEAR THE FLOOR

- (c) Remove the sidewall carpet riser.

AKS ALL

SUBTASK 33-51-06-960-004

- (3) Do these steps to replace the fuse:

EFFECTIVITY
AKS ALL

33-51-06



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AIRCRAFT MAINTENANCE MANUAL

- (a) Loosen the fasteners [3] on the battery pack.

CAUTION: TO PREVENT DAMAGE TO THE BATTERY PACK, MAKE SURE YOU KEEP IT 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 THESE INSTRUCTIONS.

- (b) Lift away the battery pack [4] to disconnect its pins from the base of the power supply.
(c) Replace each damaged fuse [8].
(d) Connect the pins on the battery pack [4] with the base of the power supply.
(e) Tighten the fasteners [3].

SUBTASK 33-51-06-710-003

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

- (a) 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	10	C01357	PASS CABIN LIGHTING EMER CHGR L AFT
A	11	C00250	PASS CABIN LIGHTING EMER CHGR FWD
B	10	C01358	PASS CABIN LIGHTING EMER CHGR R AFT

- (b) Set the test switch [7] to the on mode.
(c) Make sure the lights and signs connected to the power supply come on.
NOTE: Use the WDM to identify the individual lights and signs (WDM 33-51-12 thru 33-51-21).
(d) After one minute, make sure all emergency lights and signs go off automatically.

SUBTASK 33-51-06-410-003

- (5) Put the airplane back to its usual condition:

AKS ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED NEAR THE FORWARD ENTRY DOOR

- (a) Install the entry light.

AKS ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED NEAR THE AFT ENTRY DOOR

- (b) Close the access panel in the lowered ceiling panel.

AKS ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED ALONG THE SIDEWALL NEAR THE FLOOR

- (c) Install the sidewall carpet riser.

AKS ALL

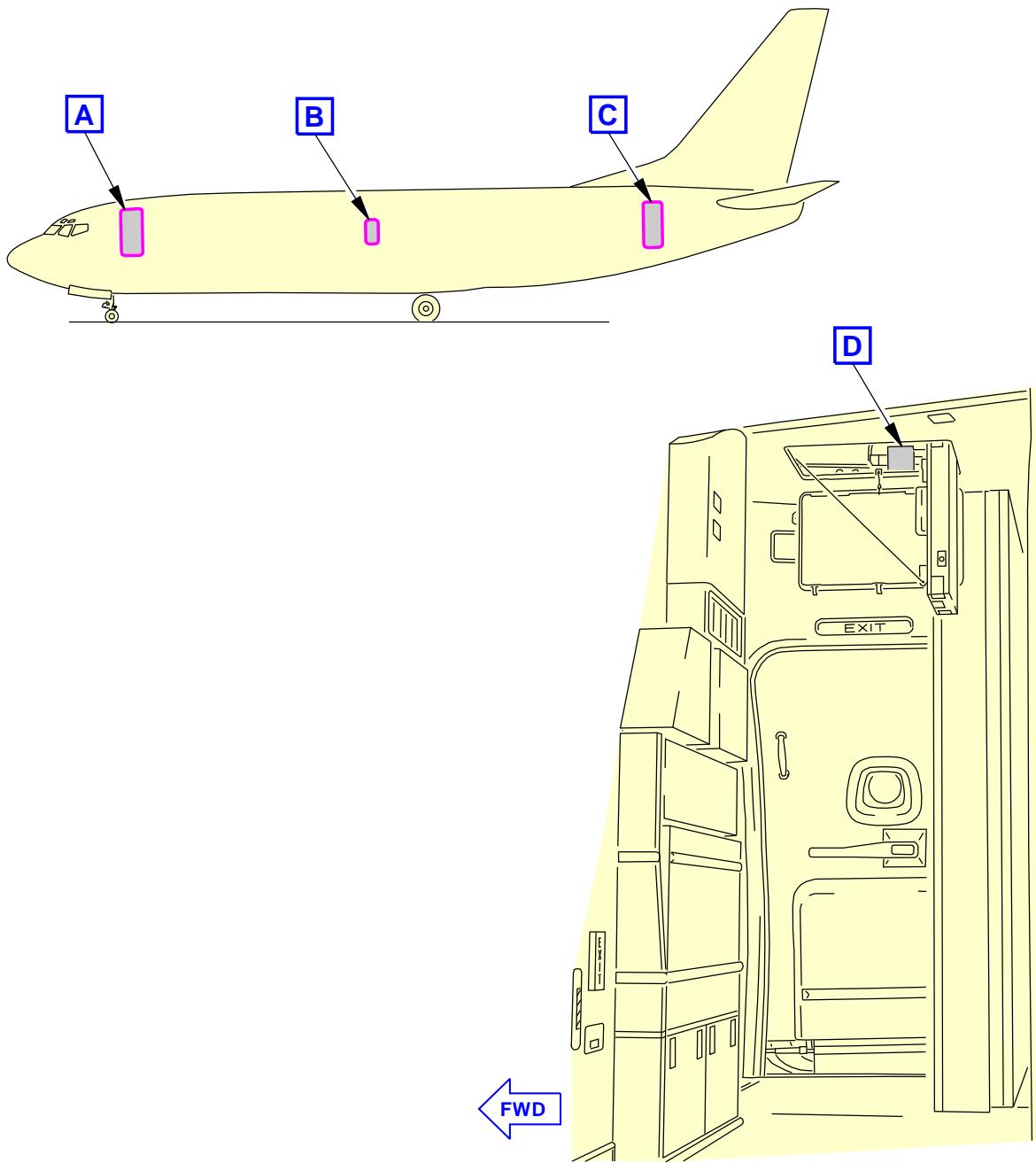
———— END OF TASK ————



33-51-06



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AIRCRAFT MAINTENANCE MANUAL



VIEW THROUGH THE
FORWARD PASSENGER DOOR

EFFECTIVITY
AKS ALL

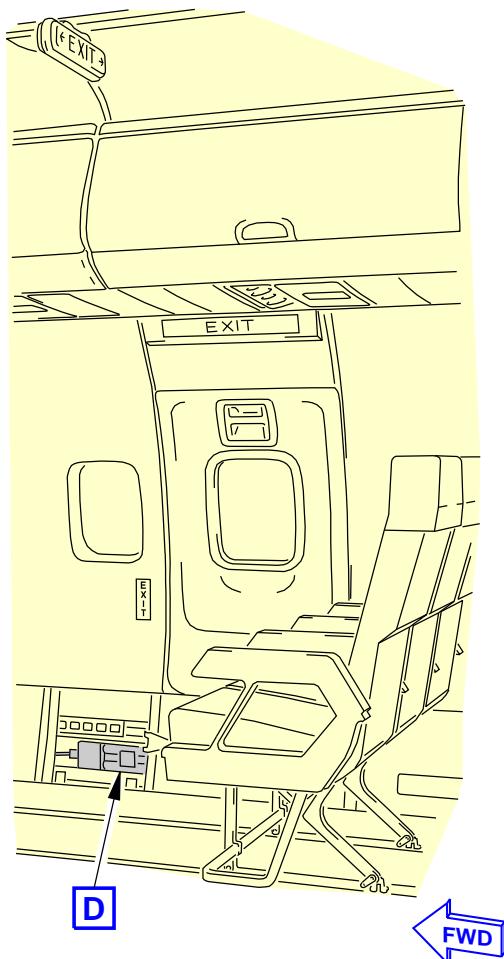
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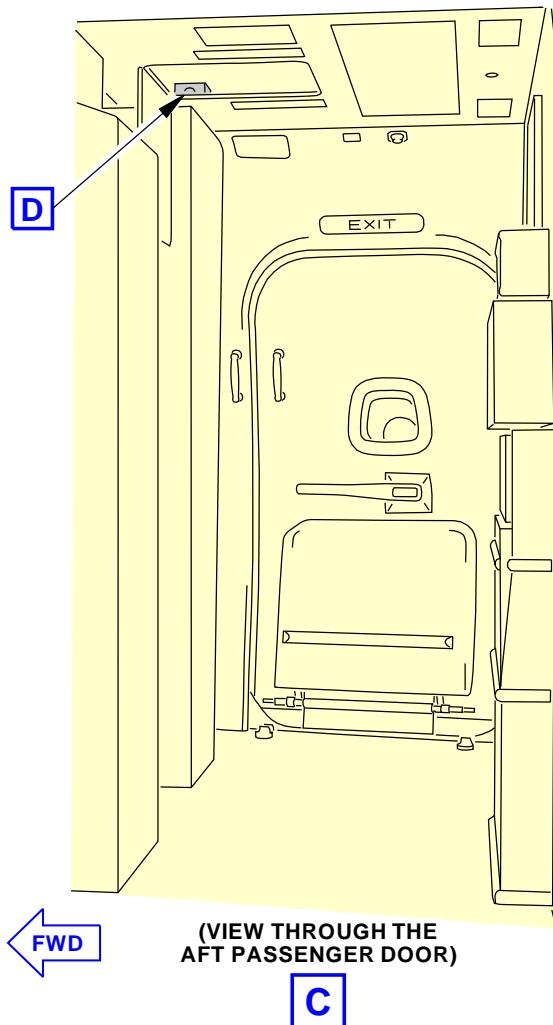


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AIRCRAFT MAINTENANCE MANUAL



OVERWING ESCAPE HATCH
(EXAMPLE)

B



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Power Supply - Power Supply/Battery Pack/Fuse Replacement
Figure 201/33-51-06-990-802 (Sheet 2 of 3)

EFFECTIVITY
AKS ALL

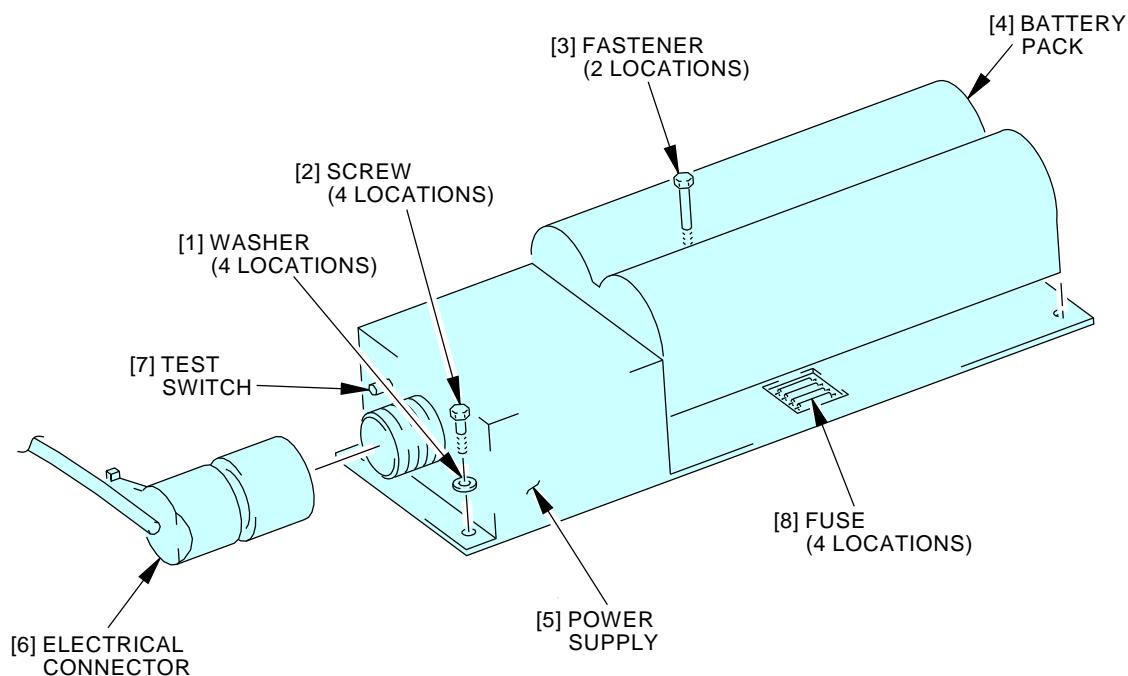
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POWER SUPPLY
(EXAMPLE)

D

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Power Supply - Power Supply/Battery Pack/Fuse Replacement
Figure 201/33-51-06-990-802 (Sheet 3 of 3)

EFFECTIVITY
AKS ALL

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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	Wiring Diagram Manual
WDM 33-51-12 thru 33-51-21	Wiring Diagram Manual

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Procedure

SUBTASK 33-51-06-860-012

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
A	10	C01357	PASS CABIN LIGHTING EMER CHGR L AFT
A	11	C00250	PASS CABIN LIGHTING EMER CHGR FWD
B	10	C01358	PASS CABIN LIGHTING EMER CHGR R AFT

SUBTASK 33-51-06-010-004

- (2) Get access to the power supply that contains the battery pack:

NOTE: Use the WDM to identify power supply locations (WDM 33-51-12 thru 33-51-21).

AKS ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED NEAR THE FORWARD ENTRY DOOR

- (a) Lower the left side of the entry light.

AKS ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED NEAR THE AFT ENTRY DOOR

- (b) Open the access panel in the lowered ceiling panel.

AKS ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED ALONG THE SIDEWALL NEAR THE FLOOR

- (c) Remove the sidewall carpet riser.

AKS ALL

SUBTASK 33-51-06-960-005

- (3) Do these steps to remove the battery pack:

- (a) Loosen the fasteners [3].



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CAUTION: TO PREVENT DAMAGE TO THE BATTERY PACK, MAKE SURE YOU KEEP IT 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 THESE INSTRUCTIONS.

- (b) Lift away the battery pack [4] to disconnect its pins from the base of the power supply.

SUBTASK 33-51-06-960-006

- (4) Do these steps to install the battery pack:
- Align the connector pins with the base of the power supply, then install the battery pack [4].
 - Tighten the fasteners [3].

SUBTASK 33-51-06-710-004

- (5) Do a test of the new battery pack:
- 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	10	C01357	PASS CABIN LIGHTING EMER CHGR L AFT
A	11	C00250	PASS CABIN LIGHTING EMER CHGR FWD
B	10	C01358	PASS CABIN LIGHTING EMER CHGR R AFT

- (b) Set the test switch [7] to the on mode.
- Make sure the lights and signs connected to the battery pack come on.
NOTE: Use the WDM to identify the individual lights and signs (WDM 33-51-12 thru 33-51-21).
 - If the lights and sign do not come on, supply electrical power to the airplane to charge the battery packs (Power Supply - Charge the Battery Packs, TASK 33-51-06-610-802), then do the test again.
NOTE: If the battery packs are fully drained, maximum time necessary to charge them is 90 minutes. However, this test can be completed after charging the battery packs for only 10 minutes.

- (c) After one minute, make sure all emergency lights and signs go off automatically.

SUBTASK 33-51-06-410-004

- (6) Put the airplane back to its usual condition.

AKS ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED NEAR THE FORWARD ENTRY DOOR

- (a) Install the entry light.

AKS ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED NEAR THE AFT ENTRY DOOR

- (b) Close the access panel in the lowered ceiling panel.

AKS ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED ALONG THE SIDEWALL NEAR THE FLOOR

- (c) Install the sidewall carpet riser.

AKS ALL

———— END OF TASK ————

EFFECTIVITY
AKS ALL

33-51-06



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

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	Wiring Diagram Manual
WDM 33-51-12 thru 33-51-21	Wiring Diagram Manual

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
5	Power supply	33-51-06-12-045	AKS ALL
		33-51-06-30-015	AKS ALL
		33-51-06-31-015	AKS ALL

D. Location Zones

Zone	Area
200	Upper Half of Fuselage

E. Procedure

SUBTASK 33-51-06-860-013

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
A	10	C01357	PASS CABIN LIGHTING EMER CHGR L AFT
A	11	C00250	PASS CABIN LIGHTING EMER CHGR FWD
B	10	C01358	PASS CABIN LIGHTING EMER CHGR R AFT

SUBTASK 33-51-06-010-005

- (2) Get access to the power supply:

NOTE: Use the WDM to identify power supply locations (WDM 33-51-12 thru 33-51-21).

AKS ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED NEAR THE FORWARD ENTRY DOOR

- (a) Lower the left side of the entry light.

AKS ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED NEAR THE AFT ENTRY DOOR

- (b) Open the access panel in the lowered ceiling panel.

AKS ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED ALONG THE SIDEWALL NEAR THE FLOOR

- (c) Remove the sidewall carpet riser.

AKS ALL

SUBTASK 33-51-06-960-007

- (3) Do these steps to replace the power supply:

- (a) Disconnect the electrical connector [6].

EFFECTIVITY
AKS ALL

33-51-06



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AIRCRAFT MAINTENANCE MANUAL

- (b) Remove the screws [2] and washers [1].
- (c) Remove the power supply [5].
- (d) Install the new power supply [5].
- (e) Install the washers [1] and screws [2].
- (f) Connect the electrical connector [6].

SUBTASK 33-51-06-710-005

- (4) Do a test of the new power supply:
 - (a) 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	10	C01357	PASS CABIN LIGHTING EMER CHGR L AFT
A	11	C00250	PASS CABIN LIGHTING EMER CHGR FWD
B	10	C01358	PASS CABIN LIGHTING EMER CHGR R AFT

- (b) Set the test switch [7] to the on mode.
 - 1) Make sure the lights and signs connected to the power supply come on.
NOTE: Use the WDM to identify the individual lights and signs (WDM 33-51-12 thru 33-51-21).
 - 2) If the lights and signs do not come on, supply electrical power to the airplane to charge the battery packs (Power Supply - Charge the Battery Packs, TASK 33-51-06-610-802), then do the test again.
NOTE: If the battery packs are fully drained, maximum time necessary to charge them is 90 minutes. However, this test can be completed after charging the battery packs for only 10 minutes.
- (c) After one minute, make sure all emergency lights and signs go off automatically.

SUBTASK 33-51-06-410-005

- (5) Put the airplane back to its usual condition:

AKS ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED NEAR THE FORWARD ENTRY DOOR

- (a) Install the entry light.

AKS ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED NEAR THE AFT ENTRY DOOR

- (b) Close the access panel in the lowered ceiling panel.

AKS ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED ALONG THE SIDEWALL NEAR THE FLOOR

- (c) Install the sidewall carpet riser.

AKS 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.

EFFECTIVITY
AKS ALL

33-51-06

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A. General

- (1) 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
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
WDM 33-51-12 thru 33-51-21	Wiring Diagram Manual

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Procedure

SUBTASK 33-51-06-860-014

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

SUBTASK 33-51-06-860-015

- (2) Make sure 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 power has been on for 90 minutes and no emergency lights have been tested, the battery packs can be considered fully charged. If the battery packs are fully drained, maximum time necessary to charge them is 90 minutes.

SUBTASK 33-51-06-210-001

- (3) Do the battery pack capacity check:

- (a) At the overhead panel, P5, set the pilots emergency light switch 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 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 33-51-12 thru 33-51-21). 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) At the P5 panel, set the pilots emergency light switch 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, maximum time necessary to charge them is 90 minutes.

SUBTASK 33-51-06-860-017

- (4) If there are battery packs that do not operate correctly during the capacity check, then do these steps:

NOTE: The battery packs have been re-charged following the capacity check.

EFFECTIVITY
AKS ALL

33-51-06



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- (a) To deep cycle the battery packs, do this task: Power Supply - Battery Pack Deep-Cycle Procedure, TASK 33-51-06-600-802

SUBTASK 33-51-06-810-001

- (5) Retest any battery packs that did not stay on for 15 minutes above.
- (a) At the overhead panel, P5, set the pilots emergency light switch 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

- (6) If the battery pack operated correctly during the retest, then put the airplane back to its usual condition:
- (a) At the P5 panel, set the pilots emergency light switch to the off mode.
- (b) Charge the battery pack.
NOTE: The battery pack in the emergency lights power supply is continuously charged when electrical power is supplied to the airplane, unless the emergency light switches are set to the on mode. If the battery pack is fully drained, maximum time necessary to charge it is 90 minutes.

SUBTASK 33-51-06-860-025

- (7) If the battery pack did not operate correctly during the retest, then replace it:
- (a) Do this task: Power Supply - Battery Pack Replacement, TASK 33-51-06-960-805.
- (b) At the P5 panel, set the pilots emergency light switch to the off mode.
- (c) Charge the battery pack.
NOTE: The battery pack in the emergency lights power supply is continuously charged when electrical power is supplied to the airplane, unless the emergency light switches are set to the on mode. If the battery pack is fully drained, maximum time necessary to charge it is 90 minutes.

SUBTASK 33-51-06-860-018

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

————— 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

- (1) 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)

EFFECTIVITY
AKS ALL

33-51-06

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AIRCRAFT MAINTENANCE MANUAL

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Procedure

SUBTASK 33-51-06-860-019

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

SUBTASK 33-51-06-610-004

- (2) Do the battery pack deep-cycle procedure:

- At the overhead panel, P5, set the pilots emergency light switch to the on mode.
- 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.

- After all emergency lights and signs go off, set the switch to the off mode.
- Charge the battery packs (Power Supply - 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, maximum time necessary to charge them is 90 minutes.

SUBTASK 33-51-06-860-020

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

———— END OF TASK ————



33-51-06



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AIRCRAFT MAINTENANCE MANUAL

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. Procedure

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 LIGHT, ELECTRICAL SHOCK CAN OCCUR.

- (1) Do these steps to replace the applicable lamp (WDM 33-51-21):
 - (a) Remove the lens, [3] or [6].
 - (b) Replace the lamp, [2] or [5].
 - (c) Install the lens, [3] or [6].

SUBTASK 33-51-14-710-001

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

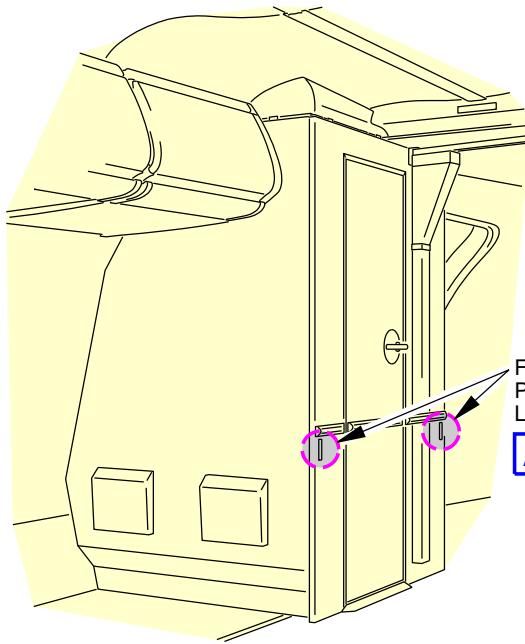
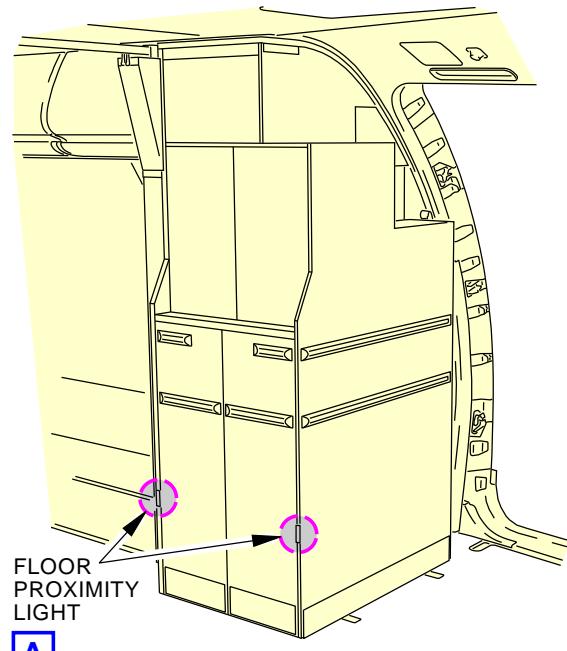
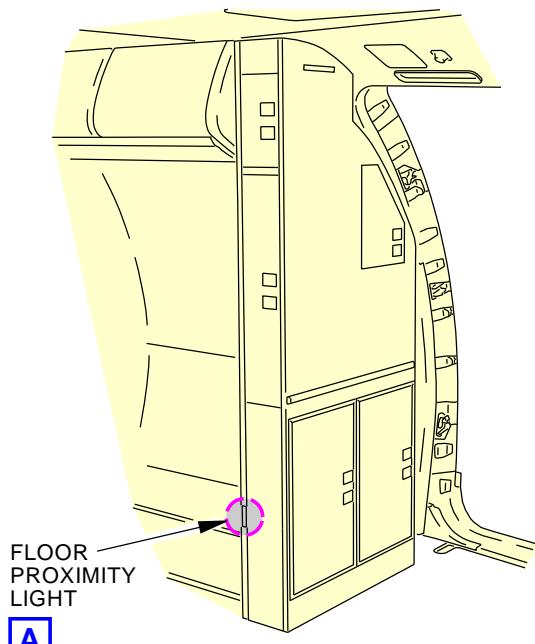
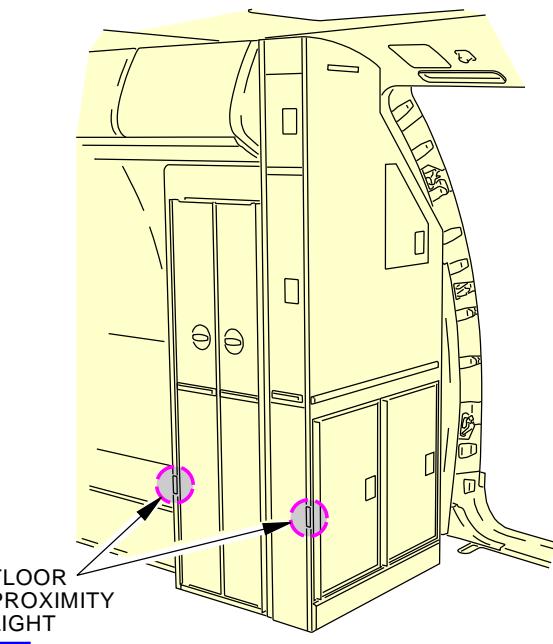
NOTE: The emergency lights are energized by the power supplies. Use the lights for a minimum time to do the test.

- (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 ————



33-51-14


**LAVATORY
(EXAMPLE)**

**GALLEY
(EXAMPLE)**

**WINDSCREEN
(EXAMPLE)**

**CLOSET
(EXAMPLE)**

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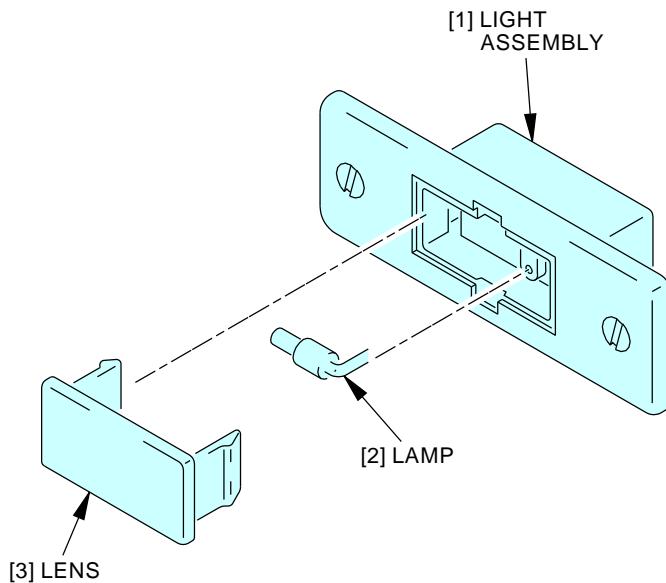
Floor Proximity Light - Lamp Replacement
Figure 201/33-51-14-990-801 (Sheet 1 of 2)

EFFECTIVITY
AKS ALL

33-51-14

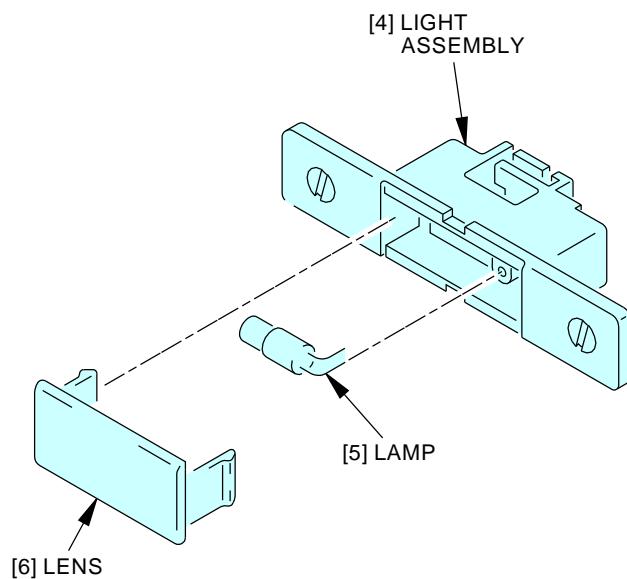
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**FLOOR PROXIMITY LIGHT
(EXAMPLE)**

A



**FLOOR PROXIMITY LIGHT
(EXAMPLE)**

A

81000-33901
81000-33801

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Floor Proximity Light - Lamp Replacement
Figure 201/33-51-14-990-801 (Sheet 2 of 2)

EFFECTIVITY
AKS 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. Procedure

SUBTASK 33-51-14-960-002

- (1) Do these steps to replace the applicable light assembly (WDM 33-51-21):

- (a) Remove the fasteners, [21] or [24].
- (b) Pull out the light assembly, [22] or [25].
- (c) Disconnect the electrical wires, [23] or [26].
- (d) Connect the electrical wires, [23] or [26] to the new light assembly.
 - 1) Make sure the new light assembly includes a lamp (TASK 33-51-14-960-801).
- (e) Put in the new light assembly, [22] or [25].
 - 1) Make sure the electrical wires are installed securely in their usual position.
- (f) Install the fasteners, [21] or [24].

SUBTASK 33-51-14-710-002

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

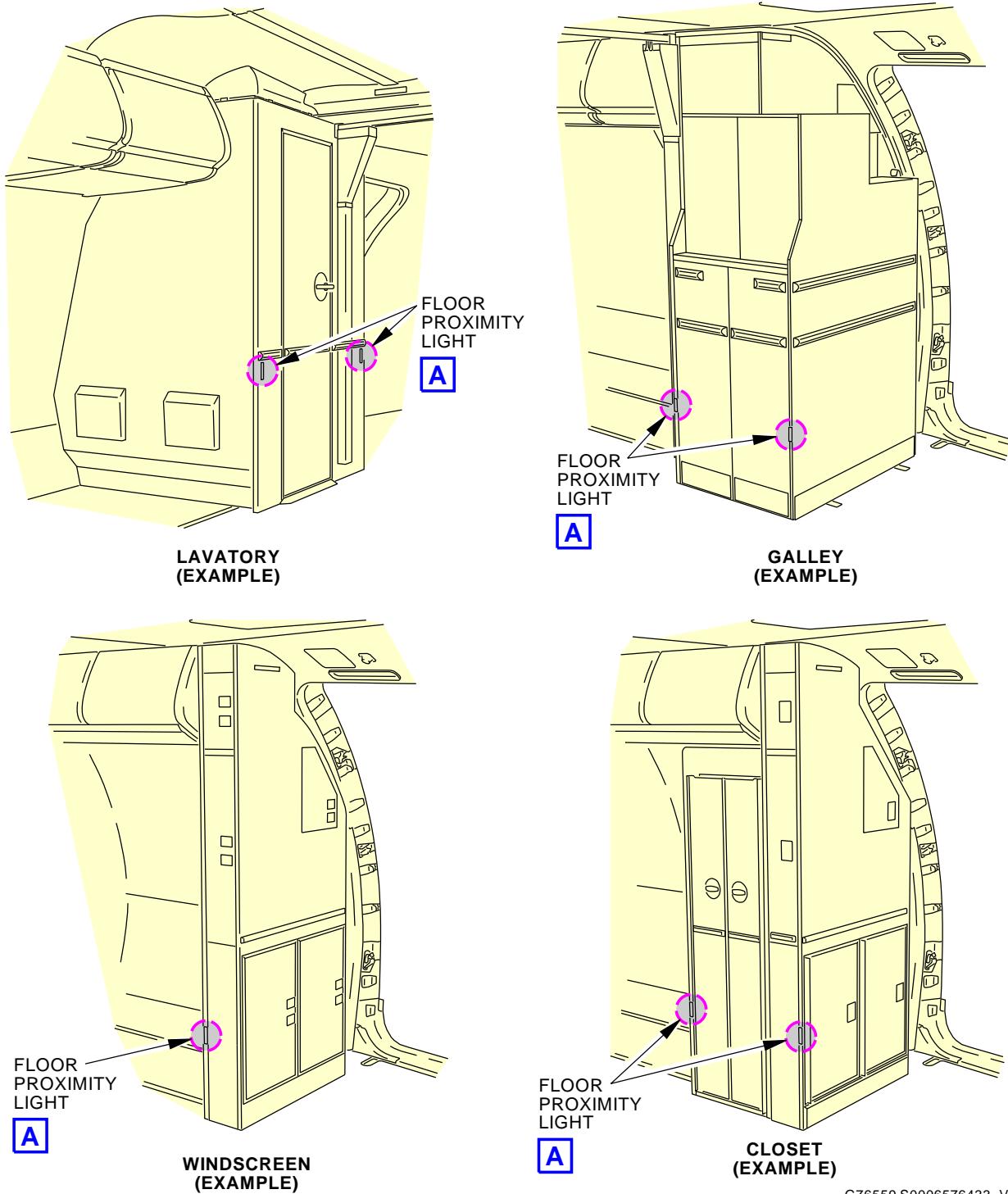
NOTE: The emergency lights are energized by the power supplies. Use the lights for a minimum time to do the test.

- (a) At the attendant panel in the passenger compartment, set the emergency light switch to the on mode.
 - 1) Make sure the light comes on.
- (b) Set the switch to the off mode.
 - 1) Make sure all emergency lights and signs go off.

———— END OF TASK ————

EFFECTIVITY
AKS ALL

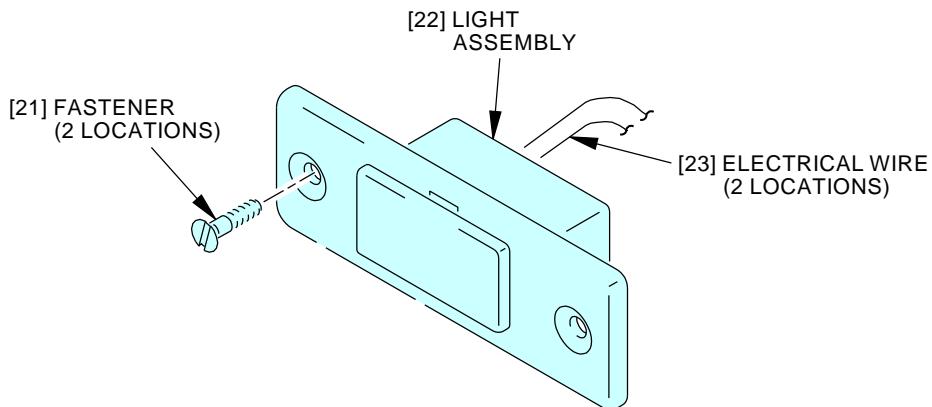
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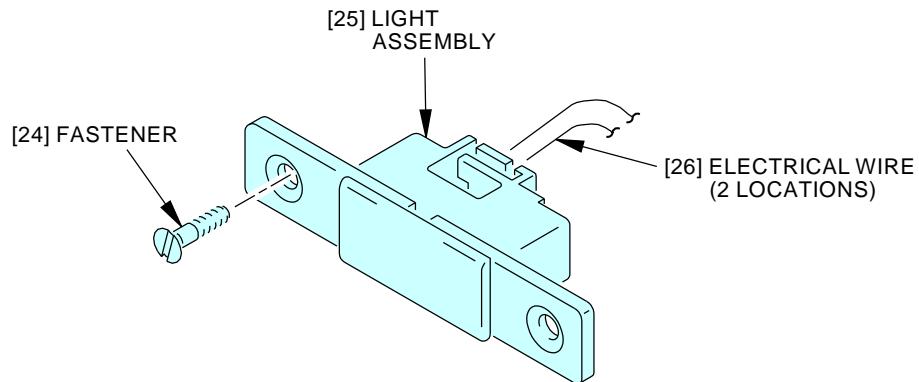
Floor Proximity Light - Light Assembly Replacement
Figure 202/33-51-14-990-802 (Sheet 1 of 2)EFFECTIVITY
AKS ALL**33-51-14**

BOEING
737-600/700/800/900
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FLOOR PROXIMITY LIGHT
(EXAMPLE)

A



FLOOR PROXIMITY LIGHT
(EXAMPLE)

A

81000-33901
81000-33801

F62161 S0006576434_V2

Floor Proximity Light - Light Assembly Replacement
Figure 202/33-51-14-990-802 (Sheet 2 of 2)

EFFECTIVITY
AKS ALL

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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.

AKS ALL

TASK 33-51-15-860-803

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.
- (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

Zone	Area
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 201 or Table 202)

EFFECTIVITY
AKS ALL; AIRPLANES WITH PHOTOLUMINESCENT
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AKS ALL (Continued)

Table 201/33-51-15-993-809 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 202/33-51-15-993-810 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 203 or Table 204).

NOTE: The Photoluminescent Duration times listed in (Table 203 and Table 204) differ from those listed in (Table 201 and Table 202) because of differences in the charge time starting conditions.

EFFECTIVITY
**AKS ALL; AIRPLANES WITH PHOTOLUMINESCENT
FLOOR PROXIMITY LIGHTS**

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AKS ALL (Continued)

Table 203/33-51-15-993-811 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 204/33-51-15-993-812 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

**AKS ALL; AIRPLANES WITH PHOTOLUMINESCENT
FLOOR PROXIMITY LIGHTS**

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AKS ALL (Continued)

Table 204/33-51-15-993-812 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 205 or Table 206)

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
**AKS ALL; AIRPLANES WITH PHOTOLUMINESCENT
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AKS ALL (Continued)

Table 205/33-51-15-993-813 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 206/33-51-15-993-814 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 207 or Table 208).

NOTE: The Photoluminescent Duration times listed in (Table 207 and Table 208) differ from those listed in (Table 205 and Table 206) 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 207/33-51-15-993-815 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

AKS ALL; AIRPLANES WITH PHOTOLUMINESCENT FLOOR PROXIMITY LIGHTS

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AKS ALL (Continued)

Table 207/33-51-15-993-815 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 208/33-51-15-993-816 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

AKS ALL; AIRPLANES WITH PHOTOLUMINESCENT FLOOR PROXIMITY LIGHTS

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AKS ALL (Continued)

Table 209/33-51-15-993-817 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.

AKS ALL; AIRPLANES WITH PHOTOLUMINESCENT FLOOR PROXIMITY LIGHTS

————— END OF TASK —————

TASK 33-51-15-960-801

3. 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.
 - (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	MIL-A-46106
A50038	Adhesive - Fast-setting, 2 Part Epoxy, Medium Viscosity	BMS5-123 Type I Class 2 Clear
B00083	Solvent - VM&P Naphthas	ASTM D-3735 Type III
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	BMS15-5 Class 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

EFFECTIVITY

**AKS ALL; AIRPLANES WITH PHOTOLUMINESCENT
FLOOR PROXIMITY LIGHTS**

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D. Location Zones

Zone	Area
200	Upper Half of Fuselage

E. Procedure

SUBTASK 33-51-15-960-001

- (1) Do these steps to replace the photoluminescent strip:

- (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) Use a cotton wiper, G00034 dampened with solvent, B00083 Final Cleaning Prior to General Sealing (Series 92), TASK 20-30-92-910-801, to clean the floor panel.
- (d) FOR STANDARD PHOTOLUMINESCENT STRIP;
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.

- 1) Do this task: Prepare For Sealing, TASK 51-31-00-160-801.

CAUTION: SEALANT MUST NOT EXTEND OVER PERIPHERY OF PHOTOLUMINESCENT STRIP

- 2) Carefully seal the exposed end of all strips with small beads of adhesive, A50038.

- (e) FOR COLORED PHOTOLUMINESCENT STRIP;

Do these steps to prepare the new colored photoluminescent strip 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 has a cover sleeve, a color filter, a photoluminescent insert, and two end caps.

- 1) Remove the end caps from each end of the strip sleeve.
- 2) If necessary, trim the new colored photoluminescent strip to fit.
 - a) Remove the color filter and photoluminescent insert in the cover sleeve.
 - b) Cut the cover sleeve to the applicable length.
 - c) 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.
 - d) Clean the cover sleeve, color filter and photoluminescent insert from dust and unwanted material.
 - e) Put the color filter and photoluminescent insert into the cover sleeve.
- 3) Do these steps to install the end caps:
 - a) Do this task: Prepare For Sealing, TASK 51-31-00-160-801.
 - b) Apply small beads of RTV 108 adhesive, A00635 to each end of the cover sleeve.
 - c) Install the end caps to each end of the cover sleeve.
 - d) Remove excess RTV 108 adhesive, A00635 from the colored photoluminescent strip.

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(f) FOR ENCAPSULATED PHOTOLUMINESCENT STRIP;

- 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.

- a) Cut the photoluminescent insert so it is flush or slightly shorter than the length of the cover sleeve.
 - b) Do this task: Prepare For Sealing, TASK 51-31-00-160-801.
 - c) Clean the trimmed ends of the strip to remove dust, unwanted material and loose shavings.
 - d) Apply small beads (minimum 0.063 in. (1.600 mm) in diameter) of RTV 108 adhesive, A00635 to the trimmed ends of the strip.
 <1> Smooth the sealant and allow to dry.
 - e) Remove excess RTV 108 adhesive, A00635 from the edges of the strip with a clean cloth.
- (g) Use a cotton wiper, G00034 dampened with solvent, B00083 to clean the new light strip (TASK 20-30-92-910-801).
- (h) Apply new tape, G50156, to the floor panel.
- (i) Using the new piece(s) of photoluminescent strip as a guide, mark the tape, G50156 where the ends of the strip will be located.

AKS ALL

- (j) Place small lateral strips of 3/4-inch wide Nitto 223S Tape, G02129 on top of the tape, G50156 so that none of that tape or any floor panel is visible between the strips.

AKS ALL; AIRPLANES WITH PHOTOLUMINESCENT FLOOR PROXIMITY LIGHTS

- (k) 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.
- (l) Press the strip down firmly along its length to attach it in place.

———— END OF TASK ————

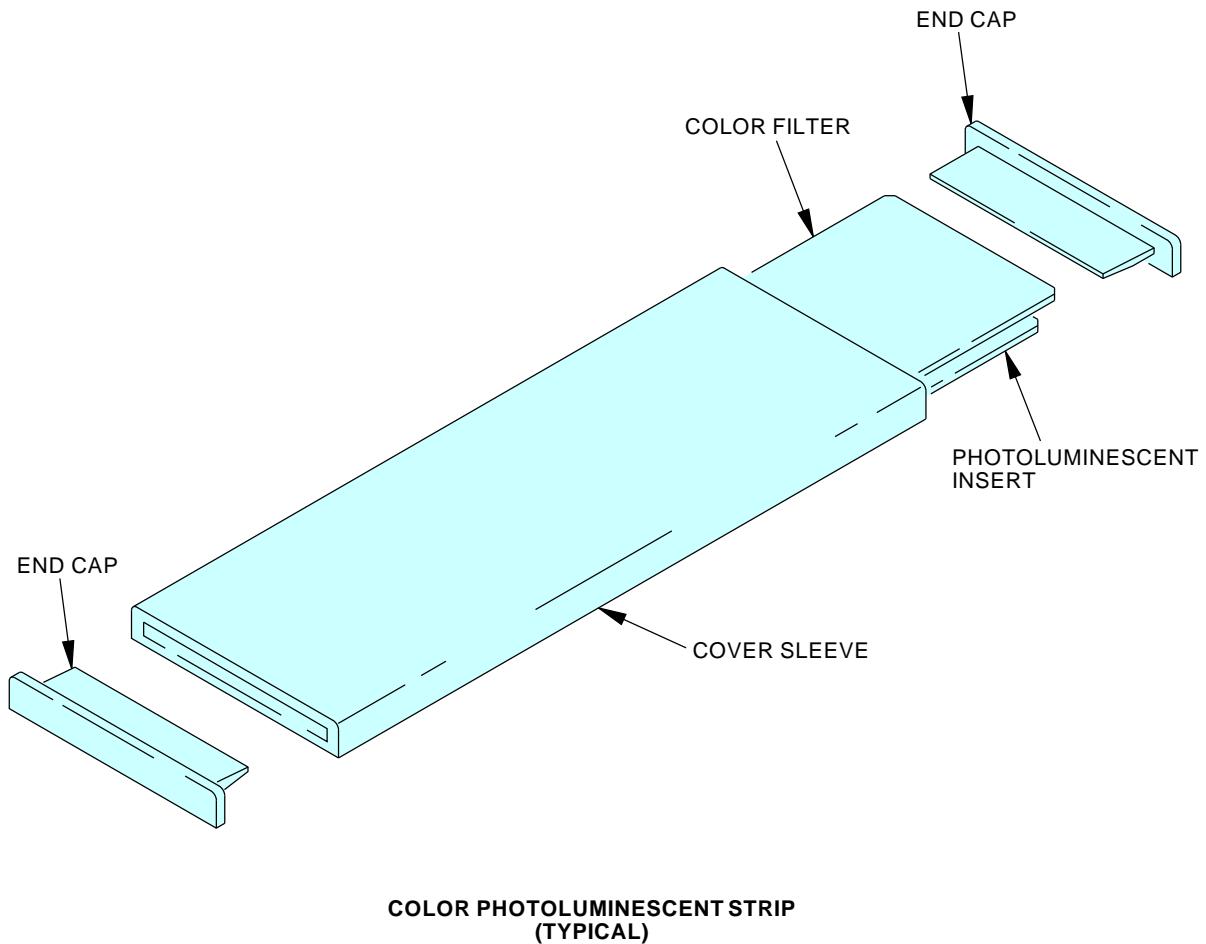
EFFECTIVITY

**AKS ALL; AIRPLANES WITH PHOTOLUMINESCENT
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Floor Proximity Light - Photoluminescent Strip Replacement
Figure 201/33-51-15-990-804 (Sheet 1 of 2)

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AKS ALL; AIRPLANES WITH PHOTOLUMINESCENT
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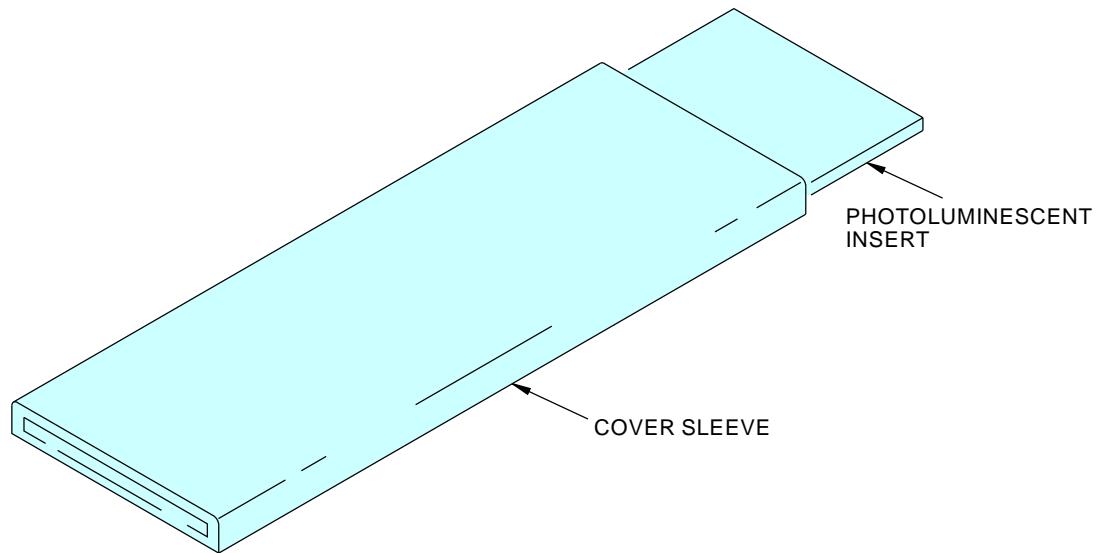
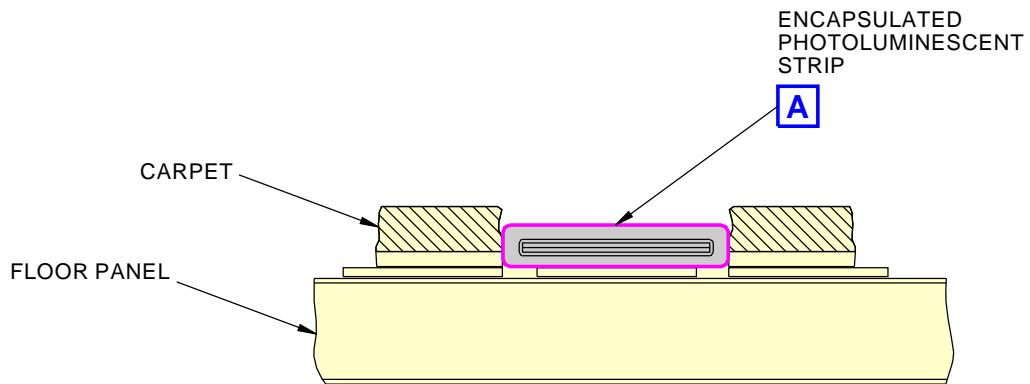
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ENCAPSULATED PHOTOLUMINESCENT STRIP (TYPICAL)



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Floor Proximity Light - Photoluminescent Strip Replacement
Figure 201/33-51-15-990-804 (Sheet 2 of 2)

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TASK 33-51-15-100-801

4. Floor Proximity Light - Photoluminescent Strip Cleaning

A. Consumable Materials

Reference	Description	Specification
B00083	Solvent - VM&P Naphthas	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

5. Floor Proximity Light - Photoluminescent Strip Inspection

A. Location Zones

Zone	Area
200	Upper Half of Fuselage

B. Procedure

SUBTASK 33-51-15-210-001

- (1) Do this procedure to inspect the light strips.
 - (a) FOR STANDARD PHOTOLUMINESCENT STRIP;
There can be no more than 5.0 in. (12.7 cm) of any length of photoluminescent strip between 15.0 in. (38.1 cm) and 72.0 in. (182.9 cm) that will not give out light.
 - (b) FOR COLORED PHOTOLUMINESCENT STRIP;
There can be no more than 5.0 in. (12.7 cm) of any length of colored photoluminescent strip between 15.0 in. (38.1 cm) and 79.0 in. (200.7 cm) that will not give out light.
 - (c) If the strips are dirty, do this task: Floor Proximity Light - Photoluminescent Strip Cleaning, TASK 33-51-15-100-801.
 - (d) For 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
AKS ALL; AIRPLANES WITH PHOTOLUMINESCENT
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FLOOR PROXIMITY LIGHTS, CABIN LIGHT INTENSITY - ADJUSTMENT/TEST

1. General

- A. This procedure contains scheduled maintenance task data.
- B. This procedure has this task:
 - (1) Cabin Lighting - Measure the 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. 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 #: MODEL 211 Supplier: \$1183
COM-11031	Meter - Light, Handheld (Photometer) Part #: MODEL S471 Supplier: \$1183

C. Consumable Materials

Reference	Description	Specification
G00270	Tape - Scotch Flatback Masking 250	ASTM D6123 (Supersedes A-A-883)

D. Location Zones

Zone	Area
200	Upper Half of Fuselage

E. Procedure

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) Assure 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:

NOTE: See (Figure 501).

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- 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.

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- 2) Use a ruler or measuring tape to measure 40 inches aft of that piece and put another piece of tape on the carpet.
- 3) In like fashion, place pieces of tape every 40 inches throughout the rest of the length of the cabin, all the way back to, and including, the centerline of the most aft passenger door.

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- (d) Make several copies of (Figure 502) to use for recording data at each measurement point.

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- (e) Set the lights for the cabin light level test:
 - 1) At the applicable attendant control panel, set the Passenger Seating Area to the White Bright scene.
 - 2) Set all reading lights to the off mode.
 - 3) Close all window shades, lavatory doors, cabin egress doors, and all overhead bin doors.

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- (f) Maintain the above conditions for 30 minutes minimum to stabilize the light source.

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- (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) Do these steps to set up the light meter and sensor such as, handheld light meter, COM-11031 and illuminance photometric sensor, COM-11030 or equivalent:
 - 1) Connect the cable from the handheld light meter, COM-11031 to illuminance photometric sensor, COM-11030.
 - 2) Turn the handheld light meter, COM-11031 on.
 - 3) Set the handheld light meter, COM-11031 to read in the 0 to 200 Lux range (or approximately 0 to 20 Fc), daylight mode (if applicable), and zero it or initialize it if necessary.

- (b) Do these steps to measure the light intensity:

- 1) Place the illuminance photometric sensor, COM-11030 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 no object is in the path of the light to the illuminance photometric sensor, COM-11030.
- 3) Record the measurement point number and the light level value on the data sheet, (Figure 502).

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- 4) Move the 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.

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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.

AKS ALL

- (c) Make sure that the average value for each side is 30 Lux (2.787 Fc) minimum.
 - 1) If you do not get 30 Lux (2.787 Fc) minimum, clean the light lens or replace the applicable light assembly.

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SUBTASK 33-51-15-940-001

- (4) Return the airplane to its usual condition.

———— END OF TASK ————

EFFECTIVITY

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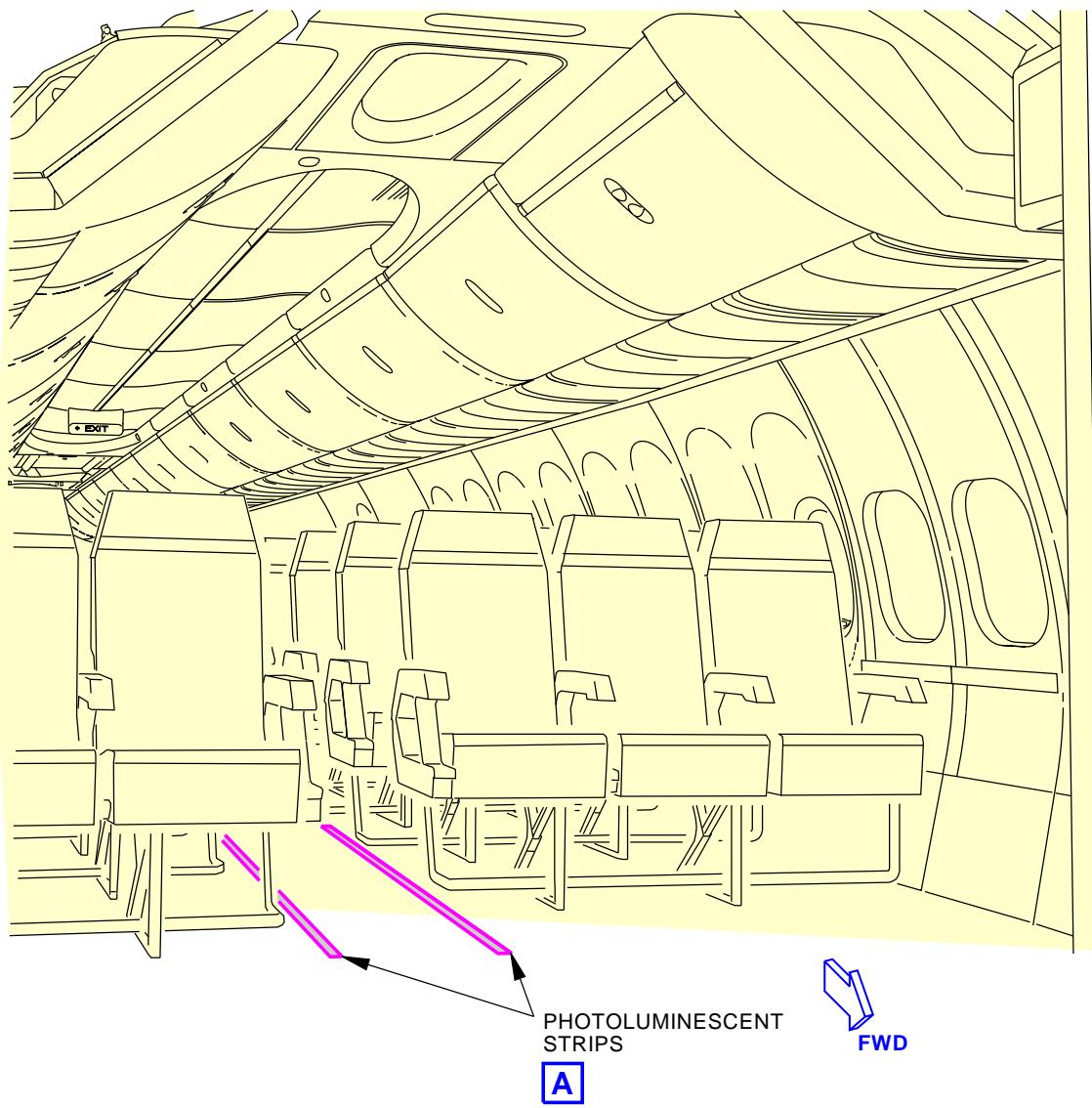
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PASSENGER COMPARTMENT
(EXAMPLE)

2207793 S0000492775_V2

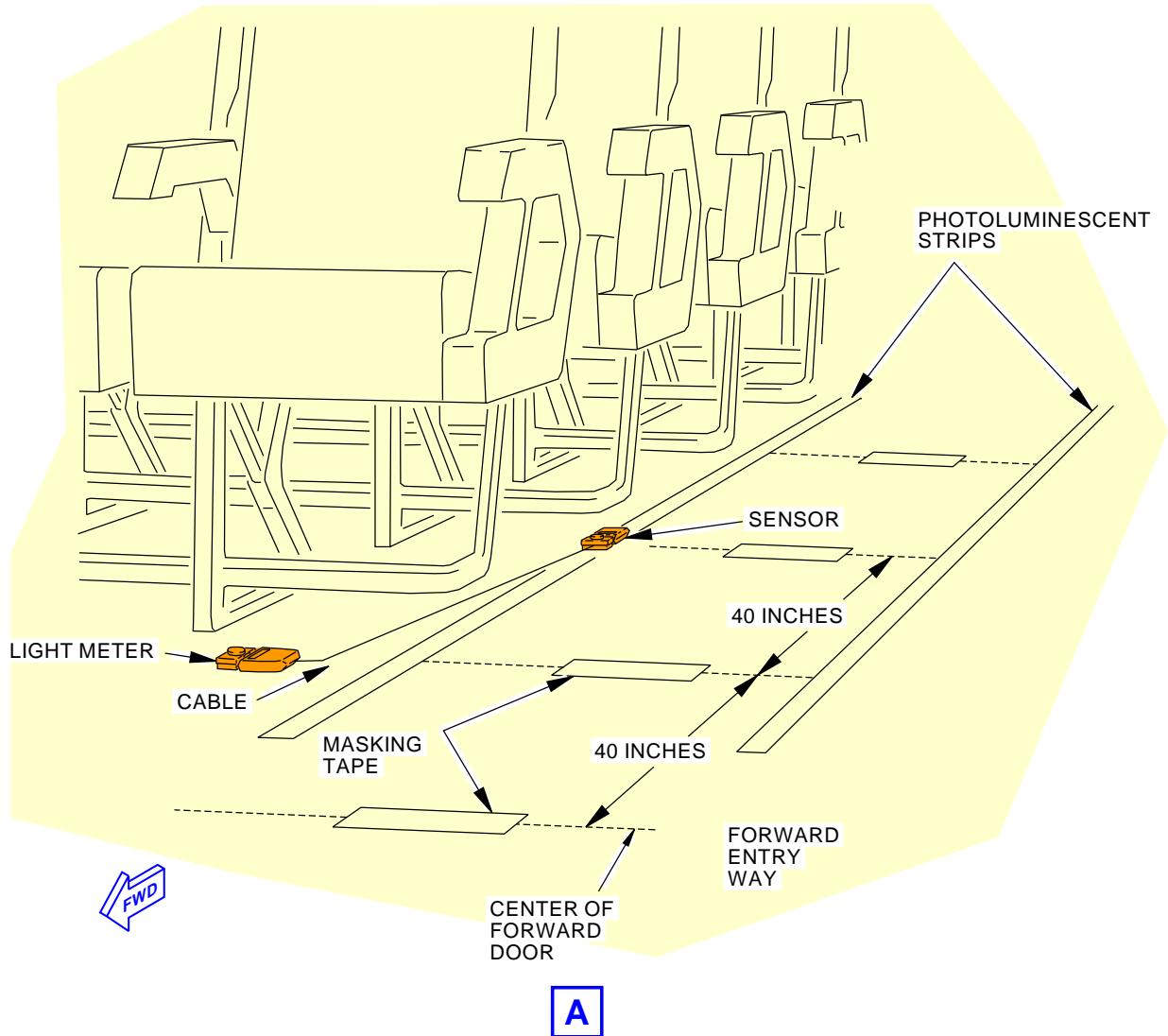
Floor Proximity Lights - Cabin Light Intensity Test
Figure 501/33-51-15-990-801 (Sheet 1 of 2)

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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 2 of 2)

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MEASUREMENT POINT	MEASURED LIGHT (LUX)	
	LEFT SIDE	RIGHT SIDE
SUBTOTAL THIS PAGE:		
SUBTOTAL PREVIOUS PAGE:		
OVERALL TOTAL:		
AVERAGE (LAST PAGE ONLY):		

DATA SHEET

M24270 S0006576447_V2

Floor Proximity Lights - Cabin Light Intensity Test Light Meter Readings
Figure 502/33-51-15-990-802

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