

CHAPTER

33

LIGHTS



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

CHAPTER 33
LIGHTS

Subject/Page	Date	COC	Subject/Page	Date	COC	Subject/Page	Date	COC
EFFECTIVE PAGES			33-14-00 (cont)			33-18-00 (cont)		
1 thru 5	Jun 15/2009		203	Oct 10/2003		206	Feb 15/2008	
6	BLANK		204	Oct 10/2003		207	Feb 15/2008	
33-CONTENTS			205	Jun 15/2008		208	Feb 15/2008	
1	Feb 15/2008		206	Jun 15/2008		209	Oct 10/2003	
2	Jun 15/2008		207	Oct 10/2003		210	Oct 10/2003	
3	Feb 15/2008		208	Oct 10/2003		211	Oct 10/2003	
4	Feb 15/2009		209	Oct 10/2003		212	Feb 10/2005	
5	Jun 15/2008		210	Oct 10/2003		213	Oct 10/2003	
6	Jun 15/2008		211	Oct 10/2003		214	Oct 10/2003	
7	Jun 15/2008		212	Oct 10/2003		215	Oct 10/2003	
O 8	Jun 15/2009		213	Oct 10/2003		216	Oct 10/2003	
O 9	Jun 15/2009		214	Oct 10/2003		217	Oct 10/2003	
O 10	Jun 15/2009		215	Jun 10/2007		218	Oct 10/2003	
O 11	Jun 15/2009		216	Feb 10/2004		219	Oct 15/2008	
O 12	Jun 15/2009		217	Jun 15/2008		220	Oct 15/2008	
O 13	Jun 15/2009		218	Jun 15/2008		221	Oct 15/2008	
O 14	Jun 15/2009		219	Jun 15/2008		222	Oct 10/2003	
15	Feb 15/2009		220	Jun 15/2008		33-20-00 Config 1		
16	Feb 15/2009		221	Jun 15/2008		501	Feb 15/2009	
33-11-00			222	Jun 15/2008		502	Jun 10/2007	
201	Jun 10/2007		223	Jun 15/2008		503	Feb 15/2008	
202	Jun 10/2007		224	BLANK		504	Feb 15/2009	
203	Jun 10/2007		33-17-00			505	Feb 15/2009	
204	Oct 10/2003		201	Feb 10/2004		506	Feb 15/2009	
205	Oct 10/2003		202	Oct 10/2003		507	Feb 15/2008	
206	Oct 10/2003		203	Oct 10/2003		508	BLANK	
207	Feb 15/2009		204	Feb 10/2004		33-21-00		
208	Feb 15/2009		205	Oct 10/2003		201	Feb 10/2007	
209	Feb 15/2009		206	Feb 15/2009		202	Feb 10/2007	
210	Feb 15/2009		207	Feb 15/2009		203	Oct 10/2003	
211	Oct 15/2008		208	Oct 15/2008		204	Oct 10/2003	
212	Jun 10/2007		209	Feb 15/2009		205	Jun 10/2005	
213	Jun 10/2007		210	BLANK		206	Feb 10/2007	
214	Jun 10/2007		33-18-00			207	Feb 10/2007	
215	Jun 10/2007		201	Oct 10/2003		208	Oct 10/2003	
216	BLANK		202	Oct 10/2003		209	Oct 10/2003	
33-14-00			203	Oct 10/2003		210	Jun 10/2005	
201	Oct 10/2005		204	Oct 10/2003		33-22-00		
202	Jun 15/2008		205	Feb 15/2008		201	Feb 10/2004	

A = Added, R = Revised, D = Deleted, O = Overflow, C = Customer Originated Change

33-EFFECTIVE PAGES



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

CHAPTER 33
LIGHTS

Subject/Page	Date	COC	Subject/Page	Date	COC	Subject/Page	Date	COC
33-22-00 (cont)			33-23-00 (cont)			33-26-02 (cont)		
202	Oct 10/2003		220	Feb 15/2009		208	Oct 10/2003	
203	Oct 10/2003		221	Feb 15/2009		209	Oct 10/2003	
204	Oct 10/2003		222	Jun 15/2008		210	BLANK	
205	Feb 10/2004		223	Jun 15/2008		33-26-03		
206	Oct 10/2003		224	Feb 15/2009		201	Jun 10/2005	
207	Oct 10/2003		33-25-00			202	Jun 10/2005	
208	Oct 10/2003		201	Feb 15/2009		203	Oct 10/2003	
209	Feb 10/2004		202	Jun 15/2008		204	Oct 10/2003	
210	Oct 10/2003		203	Feb 15/2009		205	Oct 10/2003	
211	Oct 10/2003		204	Feb 15/2009		206	Feb 10/2004	
212	Feb 15/2009		205	Feb 15/2009		207	Oct 10/2003	
213	Feb 15/2009		206	Jun 15/2008		208	Oct 10/2003	
214	Oct 10/2003		207	Jun 15/2008		209	Oct 10/2003	
215	Oct 10/2003		208	Feb 15/2009		210	Oct 10/2005	
216	Feb 15/2009		209	Oct 10/2005		211	Oct 10/2005	
217	Feb 15/2009		210	Oct 10/2005		212	Oct 10/2003	
218	Oct 10/2003		211	Oct 10/2005		213	Oct 10/2003	
219	Oct 10/2003		212	Feb 15/2009		214	Feb 15/2009	
220	Feb 10/2004		213	Feb 15/2009		215	Feb 15/2009	
33-23-00			214	Feb 15/2009		216	Jun 10/2005	
201	Jun 15/2008		215	Feb 15/2009		33-27-00		
202	Jun 15/2008		216	Jun 10/2007		201	Jun 15/2008	
203	Oct 10/2003		33-26-01			202	Oct 10/2003	
204	Feb 10/2005		201	Feb 10/2004		203	Feb 10/2004	
205	Feb 15/2009		202	Oct 10/2003		204	Oct 10/2003	
206	Feb 15/2009		203	Oct 10/2003		205	Oct 10/2003	
207	Feb 15/2009		204	Feb 10/2004		206	BLANK	
208	Oct 10/2003		205	Oct 10/2003		33-29-00		
209	Oct 10/2003		206	Oct 10/2003		201	Feb 10/2004	
210	Feb 15/2009		207	Oct 10/2003		202	Oct 10/2003	
211	Feb 15/2009		208	BLANK		203	Oct 10/2003	
212	Feb 15/2009		33-26-02			204	Oct 10/2003	
213	Jun 15/2008		201	Feb 10/2004		205	Oct 10/2003	
214	Jun 15/2008		202	Oct 10/2003		206	Feb 10/2004	
215	Feb 15/2009		203	Oct 10/2003		207	Feb 10/2004	
216	Feb 15/2009		204	Oct 10/2003		208	Feb 15/2009	
217	Feb 15/2009		205	Feb 10/2004		209	Feb 15/2009	
218	Jun 15/2008		206	Oct 10/2003		210	Oct 10/2003	
219	Jun 15/2008		207	Oct 10/2003		211	Oct 10/2003	

A = Added, R = Revised, D = Deleted, O = Overflow, C = Customer Originated Change

33-EFFECTIVE PAGES



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

CHAPTER 33
LIGHTS

Subject/Page	Date	COC	Subject/Page	Date	COC	Subject/Page	Date	COC
33-29-00 (cont)			33-36-00 (cont)			33-42-02 (cont)		
212	BLANK		208	Oct 10/2005		202	Feb 10/2007	
33-32-00			209	Feb 15/2009		203	Oct 10/2003	
201	Oct 10/2004		210	Jun 10/2005		204	Oct 10/2003	
202	Oct 10/2003		211	Jun 10/2005		205	Feb 10/2005	
203	Oct 10/2003		212	Jun 10/2005		206	Jun 15/2008	
204	Oct 10/2003		213	Jun 10/2005		207	Feb 15/2009	
205	Oct 10/2003		214	BLANK		208	Oct 10/2007	
206	Oct 10/2003		33-41-00			209	Jun 10/2006	
207	Oct 10/2003		R 201	Jun 15/2009		210	Oct 10/2003	
208	BLANK		202	Feb 10/2007		211	Oct 10/2003	
33-33-00			203	Oct 10/2003		212	Feb 10/2005	
201	Jun 10/2006		204	Oct 10/2003		213	Oct 10/2003	
202	Jun 10/2006		R 205	Jun 15/2009		214	BLANK	
203	Oct 10/2003		R 206	Jun 15/2009		33-43-10		
204	Oct 10/2003		207	Oct 10/2004		201	Feb 15/2009	
205	Oct 10/2003		208	Oct 10/2003		202	Feb 10/2007	
206	BLANK		209	Oct 10/2003		203	Feb 10/2007	
33-34-00			210	Oct 10/2003		204	Oct 10/2004	
201	Feb 10/2004		33-42-01			205	Oct 10/2004	
202	Oct 10/2003		R 201	Jun 15/2009		206	Oct 10/2004	
203	Oct 10/2003		O 202	Jun 15/2009		207	Feb 10/2007	
204	Oct 10/2003		O 203	Jun 15/2009		208	Oct 10/2004	
205	Oct 10/2003		204	Oct 10/2003		209	Oct 10/2004	
206	BLANK		205	Oct 10/2003		210	Oct 10/2004	
33-35-00			206	Oct 10/2007		211	Oct 10/2004	
201	Feb 10/2004		207	Oct 10/2007		212	BLANK	
202	Oct 10/2003		208	Oct 10/2003		33-43-11		
203	Oct 10/2003		209	Oct 10/2003		201	Feb 10/2007	
204	Oct 10/2003		210	Oct 10/2007		202	Jun 10/2005	
205	Oct 10/2003		211	Oct 10/2007		203	Oct 10/2004	
206	Oct 10/2003		212	Oct 10/2003		204	Oct 10/2004	
33-36-00			213	Oct 10/2003		205	Oct 10/2004	
201	Feb 10/2004		R 214	Jun 15/2009		206	Feb 15/2009	
202	Jun 10/2005		A 215	Jun 15/2009		207	Feb 10/2007	
203	Oct 10/2003		A 216	Jun 15/2009		208	Oct 10/2004	
204	Jun 10/2005		A 217	Jun 15/2009		209	Oct 10/2004	
205	Oct 10/2003		A 218	BLANK		210	BLANK	
206	Feb 10/2004		33-42-02			33-43-12		
207	Feb 15/2009		201	Jun 15/2008		201	Feb 10/2007	

A = Added, R = Revised, D = Deleted, O = Overflow, C = Customer Originated Change

33-EFFECTIVE PAGES



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

CHAPTER 33
LIGHTS

Subject/Page	Date	COC	Subject/Page	Date	COC	Subject/Page	Date	COC
33-43-12 (cont)			33-44-02 (cont)			33-44-13 (cont)		
202	Oct 10/2004		208	Oct 10/2003		221	Jun 10/2006	
203	Oct 10/2004		209	Feb 15/2009		222	Jun 10/2006	
204	Oct 10/2004		210	Oct 10/2003		223	Jun 10/2006	
205	Feb 15/2009		211	Feb 15/2009		224	BLANK	
206	Feb 10/2007		212	Feb 10/2007		33-45-01		
207	Oct 10/2006		213	Oct 10/2003		201	Feb 15/2008	
208	Oct 10/2004		214	Oct 10/2003		202	Feb 15/2009	
209	Oct 10/2004		33-44-04			203	Oct 10/2003	
210	BLANK		201	Feb 15/2009		204	Feb 15/2009	
33-44-00			R 202	Jun 15/2009		205	Feb 15/2008	
501	Feb 15/2009		203	Oct 10/2003		206	Jun 10/2005	
502	Feb 15/2009		204	Oct 10/2003		207	Feb 15/2009	
503	Oct 10/2004		205	Feb 15/2009		208	Feb 10/2005	
504	BLANK		206	Feb 10/2007		209	Feb 15/2009	
33-44-01			207	Oct 10/2003		R 210	Jun 15/2009	
201	Oct 10/2004		208	Oct 10/2003		33-45-02		
202	Oct 10/2004		R 209	Jun 15/2009		201	Oct 15/2008	
203	Oct 10/2004		210	Oct 10/2003		202	Oct 15/2008	
204	Oct 10/2004		33-44-13			203	Oct 15/2008	
205	Oct 10/2004		201	Feb 15/2009		204	Oct 10/2003	
206	Oct 10/2004		202	Feb 15/2009		205	Oct 10/2003	
207	Oct 10/2004		203	Jun 10/2006		206	Oct 10/2003	
208	Oct 10/2004		204	Jun 10/2006		207	Oct 10/2003	
209	Oct 10/2004		205	Jun 10/2006		208	Oct 10/2003	
210	Oct 10/2004		206	Feb 15/2009		R 209	Jun 15/2009	
211	Oct 10/2004		207	Feb 15/2009		210	BLANK	
212	Feb 15/2009		208	Jun 10/2006		33-45-03		
213	Feb 10/2007		209	Jun 10/2006		201	Feb 15/2009	
214	Oct 10/2004		R 210	Jun 15/2009		202	Feb 15/2009	
215	Oct 10/2004		R 211	Jun 15/2009		203	Feb 15/2009	
216	BLANK		O 212	Jun 15/2009		204	Feb 15/2009	
33-44-02			213	Jun 10/2006		205	Feb 15/2009	
201	Feb 15/2009		214	Jun 10/2006		206	Feb 15/2009	
202	Oct 15/2008		215	Jun 10/2006		33-49-00		
203	Oct 10/2003		216	Jun 10/2006		201	Jun 15/2008	
204	Oct 10/2003		217	Jun 10/2006		202	Feb 15/2009	
205	Feb 15/2009		218	Jun 10/2006		203	Feb 15/2009	
206	Oct 15/2008		219	Feb 10/2007		204	Feb 10/2005	
207	Oct 10/2003		220	Jun 10/2006		205	Oct 10/2007	

A = Added, R = Revised, D = Deleted, O = Overflow, C = Customer Originated Change

33-EFFECTIVE PAGES



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

CHAPTER 33
LIGHTS

Subject/Page	Date	COC	Subject/Page	Date	COC	Subject/Page	Date	COC
33-49-00 (cont)			33-51-03 (cont)			33-51-15		
206	Feb 15/2009		203	Oct 10/2003		201	Feb 15/2009	
207	Feb 15/2009		204	Feb 10/2004		202	Feb 15/2009	
208	Feb 10/2005		205	Oct 10/2003		203	Feb 15/2009	
209	Feb 10/2005		206	Oct 10/2003		204	Feb 15/2009	
210	Feb 10/2005		33-51-04			205	Feb 15/2009	
33-51-00			201	Feb 10/2004		206	BLANK	
501	Feb 15/2009		202	Oct 10/2003		33-51-15		
502	Feb 15/2009		33-51-06			R 501	Jun 15/2009	
503	Feb 15/2009		201	Feb 15/2009	C	R 502	Jun 15/2009	
504	BLANK		202	Jun 10/2007	C	R 503	Jun 15/2009	
33-51-01			203	Jun 10/2007	C	504	Feb 15/2009	
201	Feb 10/2004		204	Oct 10/2003		R 505	Jun 15/2009	
202	Oct 10/2003		205	Jun 10/2006		506	Feb 15/2009	
203	Feb 15/2009		206	Feb 10/2005	C			
204	Feb 15/2009		207	Feb 10/2007				
205	Feb 15/2009		208	Feb 10/2007	C			
206	Feb 15/2009		209	Feb 10/2007				
207	Feb 15/2009		210	Feb 15/2009				
208	Feb 15/2009		211	Feb 15/2009	C			
209	Feb 15/2009		212	Feb 15/2009	C			
210	Feb 15/2009		213	Feb 15/2009	C			
211	Feb 15/2009		214	BLANK				
212	Feb 15/2009		33-51-12					
213	Feb 15/2009		201	Jun 10/2007				
214	Feb 15/2009		202	Jun 10/2007				
215	Feb 15/2009		203	Jun 10/2007				
216	Feb 15/2009		204	Jun 10/2007				
217	Feb 15/2009		205	Jun 10/2007				
218	BLANK		206	Jun 10/2007				
33-51-02			207	Jun 10/2007				
201	Feb 15/2009		208	Jun 10/2007				
202	Feb 15/2009		33-51-14					
203	Feb 15/2009		201	Feb 10/2004				
204	Feb 15/2009		202	Oct 10/2003				
205	Feb 10/2005		203	Oct 10/2003				
206	Feb 10/2005		204	Feb 10/2004				
33-51-03			205	Oct 10/2003				
201	Feb 10/2004		206	Oct 10/2003				
202	Oct 10/2003							

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33-EFFECTIVE PAGES



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

CHAPTER 33

LIGHTS

<u>Subject</u>	<u>Chapter Section Subject</u>	<u>Conf</u>	<u>Page</u>	<u>Effect</u>
<u>INSTRUMENT AND PANEL LIGHTS - MAINTENANCE PRACTICES</u>	33-11-00		201	HAP ALL
Captain's Lighting Module - Module Replacement TASK 33-11-00-960-801			201	HAP ALL
First Officer's Lighting Module - Module Replacement TASK 33-11-00-960-802			205	HAP ALL
Control Column Memory Device - Lamp Replacement TASK 33-11-00-960-803			207	HAP ALL
Master Warning And Caution Lights - Lamp Replacement TASK 33-11-00-960-804			210	HAP ALL
Master Warning And Caution Lights - Light Assembly Replacement TASK 33-11-00-960-806			213	HAP ALL
<u>MISCELLANEOUS LIGHTS - MAINTENANCE PRACTICES</u>	33-14-00		201	HAP ALL
Panel/Glareshield Floodlight - Light Assembly Replacement TASK 33-14-00-960-801			201	HAP ALL
Control Stand Floodlight - Lamp Replacement TASK 33-14-00-960-802			205	HAP ALL
Oxygen Mask Floodlight - Light Assembly Replacement TASK 33-14-00-960-803			208	HAP ALL
Dome Light - Lamp Replacement TASK 33-14-00-960-804			211	HAP ALL
Left Dome Light - Removal TASK 33-14-00-000-801			215	HAP ALL
Left Dome Light - Installation TASK 33-14-00-400-801			215	HAP ALL

33-CONTENTS



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

CHAPTER 33
LIGHTS

Chapter
Section
Subject

Conf

Page

Effect

Subject

Circuit Breaker Panel Light - Lamp Replacement TASK 33-14-00-960-805		217	HAP ALL
Dimmer Control Unit - Replacement TASK 33-14-00-960-806		220	HAP ALL
Panel Floodlights - Operational Test of the Standby Relay TASK 33-14-00-710-801		223	HAP ALL
<u>FLIGHT CREW LIGHTS - MAINTENANCE PRACTICES</u>	33-17-00	201	HAP ALL
Map Light - Lamp Replacement TASK 33-17-00-960-801		201	HAP ALL
Flight Kit/Reading Light - Lamp Replacement TASK 33-17-00-960-802		204	HAP ALL
Chart Light - Lamp Replacement TASK 33-17-00-960-803		206	HAP ALL
<u>MASTER DIM AND TEST (MD&T) LIGHTS - MAINTENANCE PRACTICES</u>	33-18-00	201	HAP ALL
Indicator Light - Lamp Replacement TASK 33-18-00-960-801		201	HAP ALL
Indicator Light - Light Assembly Replacement TASK 33-18-00-960-802		205	HAP ALL
Lighted Pushbutton Switch - Lamp Replacement TASK 33-18-00-960-803		206	HAP ALL
Lightplate - Replacement TASK 33-18-00-960-804		212	HAP ALL
Annunciator And Dimming Module - Module Replacement TASK 33-18-00-960-805		215	HAP ALL
Master Dim and Test - Operational Test TASK 33-18-00-710-802		219	HAP ALL

33-CONTENTS



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

CHAPTER 33
LIGHTS

<u>Subject</u>	<u>Chapter Section Subject</u>	<u>Conf</u>	<u>Page</u>	<u>Effect</u>
<u>PASSENGER COMPARTMENT LIGHTS - ADJUSTMENT/TEST</u>	33-20-00	1	501	HAP ALL
Passenger Compartment Lights - Operational Test TASK 33-20-00-710-801-001		1	501	HAP ALL
<u>WINDOW LIGHTS - MAINTENANCE PRACTICES</u>	33-21-00		201	HAP ALL
Window Light - Lamp Replacement TASK 33-21-00-960-801			201	HAP ALL
Window Light - Light Assembly Replacement TASK 33-21-00-960-802			205	HAP ALL
Window Light - Fuse Replacement TASK 33-21-00-960-803			210	HAP ALL
<u>CEILING LIGHTS - MAINTENANCE PRACTICES</u>	33-22-00		201	HAP ALL
Ceiling Light, Recessed - Lamp Replacement TASK 33-22-00-960-801			201	HAP ALL
Ceiling Light, Bin - Lamp Replacement TASK 33-22-00-960-802			205	HAP ALL
Ceiling Light, Night - Lamp Replacement TASK 33-22-00-960-803			209	HAP ALL
Ceiling Light, Recessed - Light Assembly Replacement TASK 33-22-00-960-804			212	HAP ALL
Ceiling Light, Bin - Light Assembly Replacement TASK 33-22-00-960-805			216	HAP ALL
Ceiling Light, Bin - Fuse Replacement TASK 33-22-00-960-806			220	HAP ALL

33-CONTENTS



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

CHAPTER 33
LIGHTS

<u>Subject</u>	<u>Chapter Section Subject</u>	<u>Conf</u>	<u>Page</u>	<u>Effect</u>
<u>READING LIGHTS - MAINTENANCE PRACTICES</u>	33-23-00		201	HAP ALL
Reading Light - Lamp Replacement TASK 33-23-00-960-801			201	HAP ALL
Reading Light - Light Assembly Replacement TASK 33-23-00-960-802			205	HAP ALL
Reading Light - Adjustment TASK 33-23-00-820-803			210	HAP ALL
Reading Light - PSU Circuit Board Replacement TASK 33-23-00-820-801			215	HAP ALL
Reading Light - PSU Circuit Board Fuse Replacement TASK 33-23-00-960-803			220	HAP ALL
<u>INFORMATION SIGNS - MAINTENANCE PRACTICES</u>	33-25-00		201	HAP ALL
Information Sign - Lamp Replacement TASK 33-25-00-960-801			201	HAP 001-013, 015-026, 028-030; AIRPLANES THAT USE THE NO-SMOKING SWITCH TO OPERATE THE NO-SMOKING SIGNS
Information Sign - Lamp Replacement TASK 33-25-00-960-804			203	HAP 031-054, 101-999
Information Sign - Light Assembly Replacement for a No-Smoking/Fasten- Seat-Belt Sign TASK 33-25-00-960-802			206	HAP ALL
Information Sign - Light Assembly Replacement for a Return-to-Seat Sign TASK 33-25-00-960-803			212	HAP 031-054, 101-999

33-CONTENTS



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

CHAPTER 33 LIGHTS

Chapter Section Subject

Conf

Page

Effect

Subject

Information Sign - Lamp Replacement
for a Return-to-Seat Sign
TASK 33-25-00-960-805

215

HAP 001-013,
015-026, 028-030

ATTENDANT WORK LIGHTS - MAINTENANCE PRACTICES

33-26-01

201

HAP ALL

Attendant Work Light - Lamp
Replacement
TASK 33-26-01-960-801

201

HAP ALL

Attendant Work Light - Light Assembly
Replacement
TASK 33-26-01-960-802

204

HAP ALL

GALLEY LIGHTS - MAINTENANCE PRACTICES

33-26-02

201

HAP ALL

Galley Light - Lamp Replacement
TASK 33-26-02-960-801

201

HAP ALL

Galley Light - Ballast Replacement
TASK 33-26-02-960-802

205

HAP ALL

LAVATORY LIGHTS AND SIGNS - MAINTENANCE PRACTICES

33-26-03

201

HAP ALL

Lavatory Light - Lamp Replacement
TASK 33-26-03-960-801

201

HAP ALL

Lavatory Light - Ballast Replacement
TASK 33-26-03-960-802

206

HAP ALL

Lavatory-Occupied Sign - Light
Assembly Replacement
TASK 33-26-03-960-803

210

HAP ALL

Lavatory Door Switch - Adjustment/
Replacement
TASK 33-26-03-960-804

214

HAP ALL

PASSENGER AND LAVATORY CALL LIGHTS - MAINTENANCE PRACTICES

33-27-00

201

HAP ALL

Passenger Call Light - PSU Light/Switch
Replacement
TASK 33-27-00-960-801

201

HAP ALL

33-CONTENTS



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

CHAPTER 33

LIGHTS

Chapter

Section

Subject

Subject

Conf

Page

Effect

Lavatory Call Light - Light/Switch
Replacement
TASK 33-27-00-960-802

203

HAP ALL

ENTRY LIGHTS - MAINTENANCE PRACTICES

33-29-00

201

HAP ALL

Entry Light - Fluorescent Lamp
Replacement
TASK 33-29-00-960-801

201

HAP ALL

Entry Light - Dim Entry Light
Replacement
TASK 33-29-00-960-802

206

HAP ALL

Entry Light - Threshold Light Lamp
Replacement
TASK 33-29-00-960-803

207

HAP ALL

Entry Light - Ballast Replacement
TASK 33-29-00-960-804

208

HAP ALL

WHEEL WELL LIGHTS - MAINTENANCE PRACTICES

33-32-00

201

HAP ALL

Wheel Well Light - Lamp Replacement
TASK 33-32-00-960-801

201

HAP ALL

Wheel Well Lights - Operational Test
TASK 33-32-00-710-801

207

HAP ALL

AIR CONDITIONING COMPARTMENT LIGHTS - MAINTENANCE PRACTICES

33-33-00

201

HAP ALL

Air Conditioning Compartment Light -
Lamp Replacement
TASK 33-33-00-960-801

201

HAP ALL

ELECTRONIC EQUIPMENT COMPARTMENT LIGHTS - MAINTENANCE PRACTICES

33-34-00

201

HAP ALL

Electronic Equipment Compartment
Light - Lamp Replacement
TASK 33-34-00-960-801

201

HAP ALL

33-CONTENTS



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

CHAPTER 33

LIGHTS

Chapter

Section

Subject

Subject

Conf

Page

Effect

<u>ACCESSORY COMPARTMENT LIGHTS - MAINTENANCE PRACTICES</u>	33-35-00		201	HAP ALL
Accessory Compartment Light - Lamp Replacement TASK 33-35-00-960-801			201	HAP ALL
<u>CARGO COMPARTMENT LIGHTS - MAINTENANCE PRACTICES</u>	33-36-00		201	HAP ALL
Cargo Compartment Light - Lamp Replacement, Ceiling TASK 33-36-00-960-801			201	HAP ALL
Cargo Compartment Light - Lamp Replacement, Door TASK 33-36-00-960-802			206	HAP ALL
Cargo Compartment Light - Light Assembly Replacement, Ceiling TASK 33-36-00-960-803			207	HAP ALL
Cargo Compartment Light - Light Assembly Replacement, Door TASK 33-36-00-960-804			210	HAP ALL
Cargo Compartment Light - Lens Assembly Replacement, Ceiling TASK 33-36-00-960-805			212	HAP ALL
<u>WING ILLUMINATION LIGHTS - MAINTENANCE PRACTICES</u>	33-41-00		201	HAP ALL
Wing Illumination Light - Lamp Replacement TASK 33-41-00-960-801			201	HAP ALL
Wing Illumination Light - Transformer Replacement TASK 33-41-00-960-802			205	HAP ALL
Wing Illumination Light - Operational Test TASK 33-41-00-710-801			210	HAP ALL

33-CONTENTS



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

CHAPTER 33
LIGHTS

Chapter
Section

<u>Subject</u>	<u>Subject</u>	<u>Conf</u>	<u>Page</u>	<u>Effect</u>
<u>FIXED LANDING LIGHTS - MAINTENANCE PRACTICES</u>	33-42-01		201	HAP ALL
Fixed Landing Light - Lamp Replacement TASK 33-42-01-960-801			201	HAP ALL
Fixed Landing Light - Light Beam Adjustment TASK 33-42-01-820-801			206	HAP ALL
Fixed Landing Light - Transformer Replacement TASK 33-42-01-960-802			210	HAP ALL
Fixed Landing Light - Lens Temporary Repair TASK 33-42-01-350-801			214	HAP ALL
<u>RETRACTABLE LANDING LIGHTS - MAINTENANCE PRACTICES</u>	33-42-02		201	HAP ALL
Retractable Landing Light - Lamp Replacement TASK 33-42-02-960-801			201	HAP ALL
Retractable Landing Light - Retainer Assembly Removal/Installation TASK 33-42-02-960-804			206	HAP ALL
Retractable Landing Light - Light Assembly Replacement TASK 33-42-02-960-802			207	HAP ALL
Retractable Landing Light - Light Adjustment TASK 33-42-02-960-803			212	HAP ALL
<u>WINGLET POSITION LIGHTS - MAINTENANCE PRACTICES</u>	33-43-10		201	HAP ALL; AIRPLANES WITH WINGLETS
Position Light - Transformer Replacement TASK 33-43-10-960-801			201	HAP ALL; AIRPLANES WITH WINGLETS

33-CONTENTS



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

CHAPTER 33 LIGHTS

Chapter Section Subject

Subject

Conf

Page

Effect

Position Lights - Operational Test TASK 33-43-10-710-801		206	HAP ALL; AIRPLANES WITH WINGLETS
Position Lights - Disconnect the Electrical Connector TASK 33-43-10-020-801		206	HAP ALL; AIRPLANES WITH SINGLE FORWARD LENS CONFIGURATION
Position Lights - Connect the Electrical Connector TASK 33-43-10-420-801		210	HAP ALL; AIRPLANES WITH SINGLE FORWARD LENS CONFIGURATION
<u>WINGLET FORWARD POSITION LIGHTS - MAINTENANCE PRACTICES</u>	33-43-11	201	HAP ALL; AIRPLANES WITH WINGLETS
Forward Position Light - Lamp Replacement TASK 33-43-11-960-801		201	HAP ALL; AIRPLANES WITH SINGLE FORWARD LENS CONFIGURATION
Forward Position Light - Lamp Replacement TASK 33-43-11-960-802		206	HAP ALL; AIRPLANES WITH DUAL FORWARD LENS CONFIGURATION
<u>WINGLET AFT POSITION LIGHTS - MAINTENANCE PRACTICES</u>	33-43-12	201	HAP ALL; AIRPLANES WITH WINGLETS
Aft Position Light - Lamp Replacement TASK 33-43-12-960-801		201	HAP ALL; AIRPLANES WITH WINGLETS
Aft Position Light - Light Assembly Replacement TASK 33-43-12-960-802		205	HAP ALL; AIRPLANES WITH WINGLETS
<u>ANTI-COLLISION LIGHTS - ADJUSTMENT/ TEST</u>	33-44-00	501	HAP ALL
Anti-Collision Lights - Operational Test TASK 33-44-00-710-801		501	HAP ALL

33-CONTENTS



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

CHAPTER 33
LIGHTS

<u>Subject</u>	<u>Chapter Section Subject</u>	<u>Conf</u>	<u>Page</u>	<u>Effect</u>
<u>UPPER ANTI-COLLISION LIGHT - MAINTENANCE PRACTICES</u>	33-44-01		201	HAP ALL
Upper Anti-Collision Light - Lamp Assembly Replacement TASK 33-44-01-960-801			201	HAP ALL
Upper Anti-Collision Light - Light Assembly Replacement TASK 33-44-01-960-802			206	HAP ALL
Upper Anti-Collision Light - Lens Replacement TASK 33-44-01-960-803			210	HAP ALL
Upper Anti-Collision Light - Power Supply Replacement TASK 33-44-01-960-804			212	HAP ALL
<u>LOWER ANTI-COLLISION LIGHT - MAINTENANCE PRACTICES</u>	33-44-02		201	HAP ALL
Lower Anti-Collision Light - Lamp Assembly Replacement TASK 33-44-02-960-801			201	HAP ALL
Lower Anti-Collision Light - Light Assembly Replacement TASK 33-44-02-960-802			205	HAP ALL
Lower Anti-Collision Light - Lens Replacement TASK 33-44-02-960-803			209	HAP ALL
Lower Anti-Collision Light - Power Supply Replacement TASK 33-44-02-960-804			211	HAP ALL
<u>TAIL ANTI-COLLISION LIGHT - MAINTENANCE PRACTICES</u>	33-44-04		201	HAP ALL
Tail Anti-Collision Light - Lamp Replacement TASK 33-44-04-960-801			201	HAP ALL

33-CONTENTS



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

CHAPTER 33 LIGHTS

Chapter Section Subject

Conf

Page

Effect

Subject

Tail Anti-Collision Light - Light
Assembly Replacement
TASK 33-44-04-960-802

205

HAP ALL

Tail Anti-Collision Light - Lens
Replacement
TASK 33-44-04-960-803

209

HAP ALL

WINGLET ANTI-COLLISION LIGHTS - MAINTENANCE PRACTICES

33-44-13

201

HAP ALL

Anti-Collision Light - Light Assembly
Replacement
TASK 33-44-13-960-801

201

HAP ALL;
AIRPLANES WITH
SINGLE FORWARD
LENS
CONFIGURATION

Anti-Collision Light - Light Assembly
Replacement
TASK 33-44-13-960-803

206

HAP ALL;
AIRPLANES WITH
DUAL FORWARD
LENS
CONFIGURATION

Anti-collision Light - Power Supply
Replacement
TASK 33-44-13-960-802

210

HAP ALL;
AIRPLANES WITH
SINGLE FORWARD
LENS
CONFIGURATION

Anti-Collision Lights - Disconnect the
Electrical Connector
TASK 33-44-13-020-801

215

HAP ALL;
AIRPLANES WITH
SINGLE FORWARD
LENS
CONFIGURATION

Anti-Collision Lights - Connect the
Electrical Connector
TASK 33-44-13-420-801

218

HAP ALL;
AIRPLANES WITH
SINGLE FORWARD
LENS
CONFIGURATION

Wing Anti-Collision Light - Attenuator
Assembly Replacement
TASK 33-44-13-960-804

219

HAP ALL;
AIRPLANES WITH
DUAL FORWARD
LENS
CONFIGURATION

33-CONTENTS



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

CHAPTER 33

LIGHTS

Chapter

Section

<u>Subject</u>	<u>Chapter Section Subject</u>	<u>Conf</u>	<u>Page</u>	<u>Effect</u>
<u>TAXI LIGHT - MAINTENANCE PRACTICES</u>	33-45-01		201	HAP ALL
Taxi Light - Lamp Replacement TASK 33-45-01-960-801			201	HAP ALL
Taxi Light Housing Assembly - Removal TASK 33-45-01-000-801			205	HAP ALL
Taxi Light Housing Assembly - Installation TASK 33-45-01-400-801			209	HAP ALL
Nose Landing Gear Taxi Light Lens - Temporary Repair TASK 33-45-01-350-801			210	HAP ALL
<u>RUNWAY TURNOFF LIGHTS - MAINTENANCE PRACTICES</u>	33-45-02		201	HAP ALL
Runway Turnoff Light - Lamp Replacement TASK 33-45-02-960-801			201	HAP ALL
Runway Turnoff Light - Light Beam Adjustment TASK 33-45-02-820-801			206	HAP ALL
<u>TAXI LIGHT RELAY - MAINTENANCE PRACTICES</u>	33-45-03		201	HAP 031-054, 101-999; AIRPLANES WITH THE TAXI LIGHT RELAY
Taxi Light Relay - Operational Test TASK 33-45-03-710-801			201	HAP 031-054, 101-999; AIRPLANES WITH THE TAXI LIGHT RELAY
Taxi Light Relay - Replacement TASK 33-45-03-960-801			204	HAP 031-054, 101-999; AIRPLANES WITH THE TAXI LIGHT RELAY
<u>LOGO LIGHTS - MAINTENANCE PRACTICES</u>	33-49-00		201	HAP ALL
Logo Light - Lamp Replacement TASK 33-49-00-960-801			201	HAP ALL

33-CONTENTS



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

CHAPTER 33 LIGHTS

Chapter Section Subject

Subject

Conf

Page

Effect

Logo Light - Light Assembly Replacement TASK 33-49-00-960-802			206	HAP ALL
<u>EMERGENCY LIGHTS - ADJUSTMENT/TEST</u>	33-51-00		501	HAP ALL
Emergency Lights - Operational Test TASK 33-51-00-710-801			501	HAP ALL
Emergency Lights - Operational Check TASK 33-51-00-720-801			502	HAP ALL
<u>EXIT SIGNS - MAINTENANCE PRACTICES</u>	33-51-01		201	HAP ALL
Exit Sign - Lamp Replacement TASK 33-51-01-960-801			201	HAP ALL
Exit Sign - Light Assembly Replacement TASK 33-51-01-960-802			209	HAP ALL
<u>SELF ILLUMINATED EXIT SIGNS - MAINTENANCE PRACTICES</u>	33-51-02		201	HAP ALL
Self Illuminated Exit Sign - Functional Test TASK 33-51-02-720-801			202	HAP ALL
Self Illuminated Exit Sign - Removal TASK 33-51-02-020-801			203	HAP ALL
Self Illuminated Exit Sign - Installation TASK 33-51-02-400-801			206	HAP ALL
<u>AREA LIGHTS - MAINTENANCE PRACTICES</u>	33-51-03		201	HAP ALL
Area Light - Lamp Replacement TASK 33-51-03-960-801			201	HAP ALL
Area Light - Light Assembly Replacement TASK 33-51-03-960-802			204	HAP ALL
<u>SLIDE/OVERWING LIGHTS - MAINTENANCE PRACTICES</u>	33-51-04		201	HAP ALL
Slide/Overwing Light - Lamp Replacement TASK 33-51-04-960-801			201	HAP ALL

33-CONTENTS



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

CHAPTER 33

LIGHTS

Chapter

Section

Subject

Subject

Conf

Page

Effect

POWER SUPPLIES - MAINTENANCE PRACTICES

33-51-06

201

HAP ALL

Power Supply - Charge the Battery
Packs

201

HAP ALL

TASK 33-51-06-610-802

Power Supply - Fuse Replacement

202

HAP ALL

TASK 33-51-06-960-804

Power Supply - Battery Pack
Replacement

207

HAP ALL

TASK 33-51-06-960-805

Power Supply - Power Supply
Replacement

209

HAP ALL

TASK 33-51-06-960-806

Power Supply - Battery Pack Capacity
Check

210

HAP ALL

TASK 33-51-06-200-801

Power Supply - Battery Pack Deep-
Cycle Procedure

212

HAP ALL

TASK 33-51-06-600-802

FLOOR PROXIMITY LIGHTS, FLOOR- MOUNTED INCANDESCENT - MAINTENANCE PRACTICES

33-51-12

201

HAP 001-013,
015-026, 028-030;
AIRPLANES WITH
FLOOR-MOUNTED
INCANDESCENT
LIGHTS

Floor Proximity Light - Lamp
Replacement

201

HAP 001-013,
015-026, 028-030;
AIRPLANES WITH
FLOOR-MOUNTED
INCANDESCENT
LIGHTS

TASK 33-51-12-960-801

Floor Proximity Light - Light Assembly
Replacement

204

HAP 001-013,
015-026, 028-030;
AIRPLANES WITH
FLOOR-MOUNTED
INCANDESCENT
LIGHTS

TASK 33-51-12-960-802

33-CONTENTS



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

CHAPTER 33

LIGHTS

Chapter

Section

Subject

Subject

Conf

Page

Effect

FLOOR PROXIMITY LIGHTS ON GALLEYS,
LAVATORIES, CLOSETS, AND
WINDSCREENS - MAINTENANCE
PRACTICES

33-51-14

201

HAP ALL

Floor Proximity Light - Lamp
Replacement
TASK 33-51-14-960-801

201

HAP ALL

Floor Proximity Light - Light Assembly
Replacement
TASK 33-51-14-960-802

204

HAP ALL

FLOOR PROXIMITY LIGHTS,
PHOTOLUMINESCENT - MAINTENANCE
PRACTICES

33-51-15

201

HAP 031-054,
101-999; AIRPLANES
WITH
PHOTOLUMINES~
CENT FLOOR
PROXIMITY LIGHTS

Floor Proximity Light - Charge the
Photoluminescent Strips
TASK 33-51-15-860-801

201

HAP 031-054,
101-999; AIRPLANES
WITH
PHOTOLUMINES~
CENT FLOOR
PROXIMITY LIGHTS

Floor Proximity Light -
Photoluminescent Strip Replacement
TASK 33-51-15-960-801

203

HAP 031-054,
101-999; AIRPLANES
WITH
PHOTOLUMINES~
CENT FLOOR
PROXIMITY LIGHTS

Floor Proximity Light -
Photoluminescent Strip Cleaning
TASK 33-51-15-100-801

204

HAP 031-054,
101-999; AIRPLANES
WITH
PHOTOLUMINES~
CENT FLOOR
PROXIMITY LIGHTS

Floor Proximity Light -
Photoluminescent Strip Inspection
TASK 33-51-15-210-801

205

HAP 031-054,
101-999; AIRPLANES
WITH
PHOTOLUMINES~
CENT FLOOR
PROXIMITY LIGHTS

33-CONTENTS



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

CHAPTER 33
LIGHTS

<u>Subject</u>	<u>Chapter Section Subject</u>	<u>Conf</u>	<u>Page</u>	<u>Effect</u>
<u>FLOOR PROXIMITY LIGHTS, CABIN LIGHT INTENSITY - ADJUSTMENT/TEST</u>	33-51-15		501	HAP 031-054, 101-999; AIRPLANES WITH PHOTOLUMINES~ CENT FLOOR PROXIMITY LIGHTS
Cabin lighting - Measure the available light intensity TASK 33-51-15-860-802			501	HAP 031-054, 101-999; AIRPLANES WITH PHOTOLUMINES~ CENT FLOOR PROXIMITY LIGHTS

33-CONTENTS



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

INSTRUMENT AND PANEL LIGHTS - MAINTENANCE PRACTICES

1. General

A. This procedure has these tasks:

- (1) Captain's Lighting Module - Module Replacement
- (2) First Officer's Lighting Module - Module Replacement
- (3) Control Column Memory Device - Lamp Replacement
- (4) Master Warning And Caution Lights - Lamp Replacement

NOTE: A spare lamp box is on the right sidewall that is forward of the first officers seat.

- (5) Master Warning And Caution Lights - Light Assembly Replacement
- (6) Flight Number Reminder Indicator - Replacement

TASK 33-11-00-960-801

2. Captain's Lighting Module - Module Replacement

(Figure 201)

A. General

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

B. References

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 MPC 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

EFFECTIVITY
HAP ALL

33-11-00

Page 201
Jun 10/2007

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

(g) 41C7 5V SEC CENTER PANEL LIGHTING

SUBTASK 33-11-00-960-001

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

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

SUBTASK 33-11-00-860-002

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

SUBTASK 33-11-00-860-003

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

F/O Electrical System Panel, P6-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	9	C00331	PANEL & INSTR 28V PRI CAPT & CTR

(6) Close the Captain's Lighting Module, P41

- (a) 41C1 5.7V SEC MPC 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

EFFECTIVITY
HAP ALL

33-11-00

Page 202
Jun 10/2007

D633A101-HAP

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737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- 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

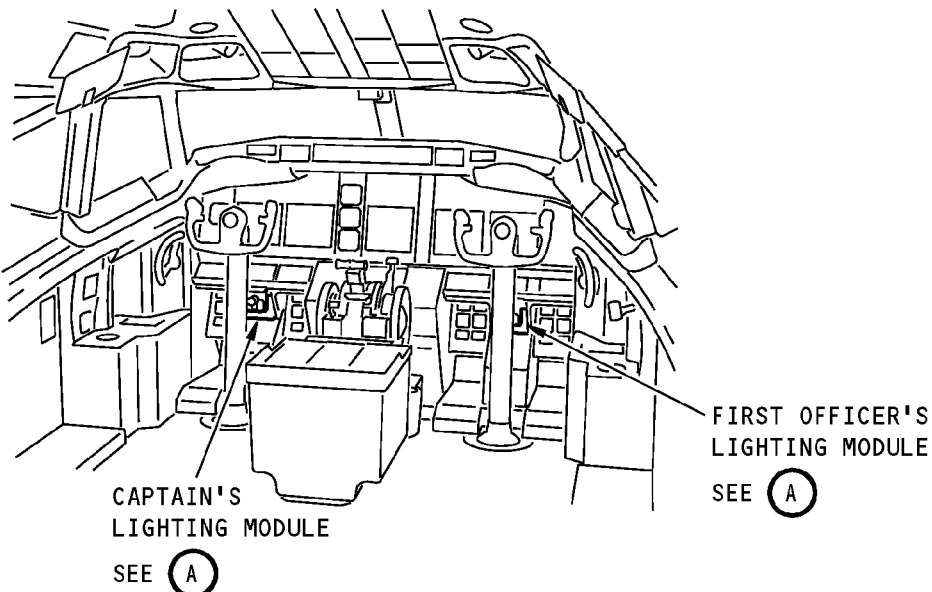
EFFECTIVITY
HAP ALL

D633A101-HAP

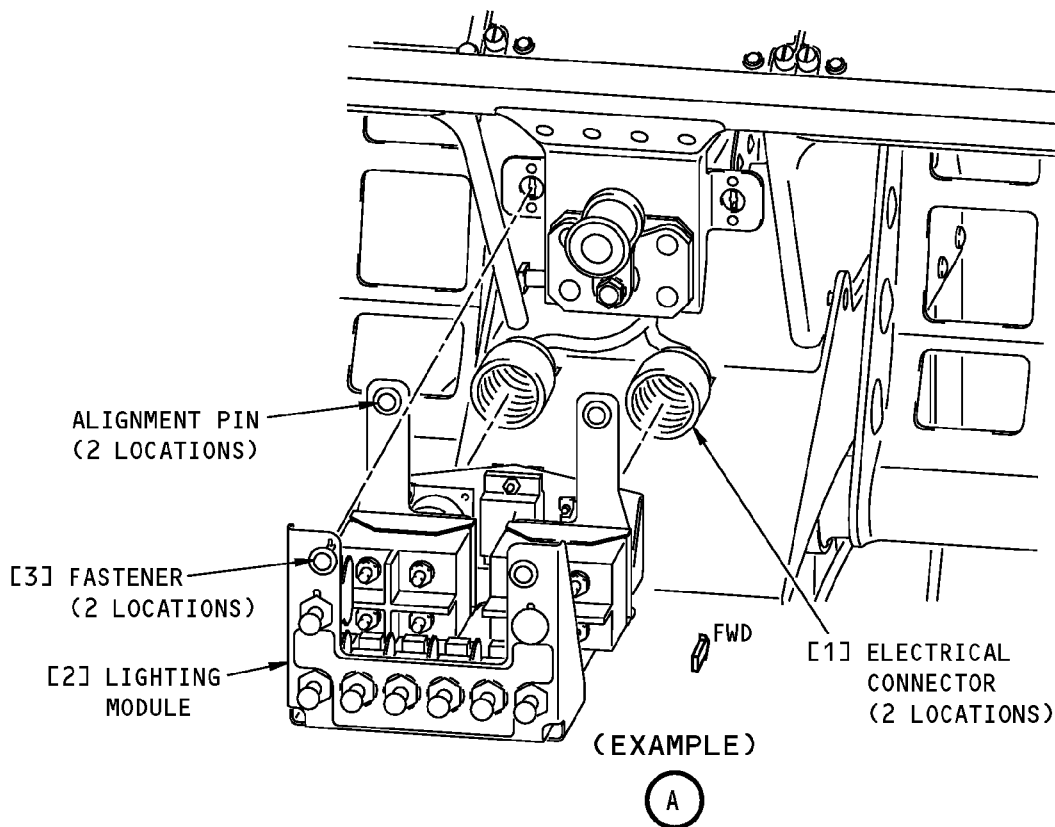
33-11-00

Page 203
Jun 10/2007

AIRCRAFT MAINTENANCE MANUAL



FLIGHT COMPARTMENT



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

EFFECTIVITY
HAP ALL

33-11-00



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-11-00-960-802

3. 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].

EFFECTIVITY
HAP ALL

D633A101-HAP

33-11-00

Page 205
Oct 10/2003



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- 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

Row	Col	Number	Name
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** —————

EFFECTIVITY
HAP ALL

D633A101-HAP

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33-11-00

Page 206
Oct 10/2003



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-11-00-960-803

4. Control Column Memory Device - 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. Location Zones

Zone	Area
211	Flight Compartment - Left
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 33-11-00-020-001

- (2) Do these steps to get access to the memory device [1]:
 - (a) Remove the screws [2].
 - (b) Pull the memory device [1] out of the control column far enough to get access to the spring-loaded pin [4].

SUBTASK 33-11-00-960-003

- (3) Do these steps to replace the lamps [6]:
 - (a) Press the spring-loaded pin [4] to remove the cap [3].
 - (b) Push the lamp holder [5] out of the memory device [1].
 - (c) Replace the applicable lamps [6].
 - (d) Push the lamp holder [5] back into the memory device [1].
 - (e) Install the cap [3].

SUBTASK 33-11-00-420-001

- (4) Do these steps to install the memory device [1]:
 - (a) Make sure the wire leads are securely attached to the memory device [1].
 - (b) Insert the memory device [1] into the control column.
 - (c) Tighten the screws [2] to a torque of 4 ± 0.5 in•lb (0.45 ± 0.06 N•m).

SUBTASK 33-11-00-860-010

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

EFFECTIVITY
HAP ALL

33-11-00

Page 207
Feb 15/2009

D633A101-HAP



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

SUBTASK 33-11-00-860-011

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

F/O Electrical System Panel, P6-3

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

SUBTASK 33-11-00-710-003

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

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

SUBTASK 33-11-00-860-012

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

————— **END OF TASK** —————

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D633A101-HAP

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33-11-00

Page 208
Feb 15/2009

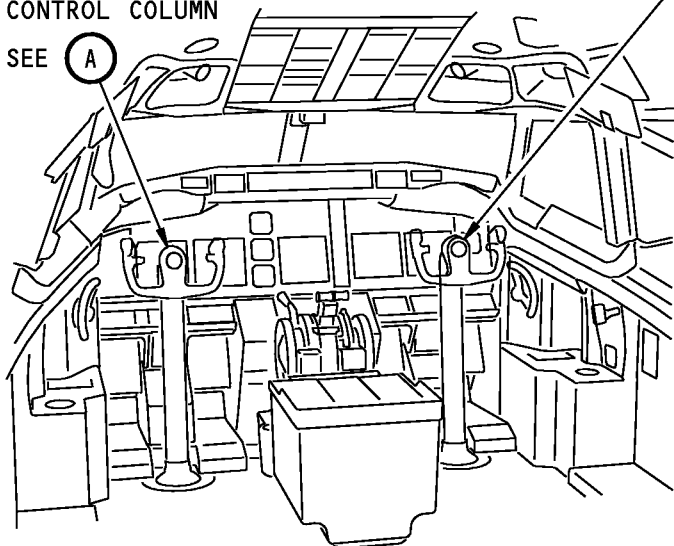
AIRCRAFT MAINTENANCE MANUAL

CAPTAIN'S
CONTROL COLUMN

SEE (A)

FIRST OFFICER'S
CONTROL COLUMN

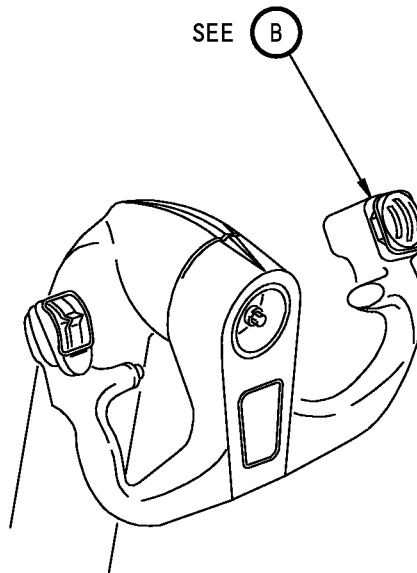
SEE (A)



FLIGHT COMPARTMENT

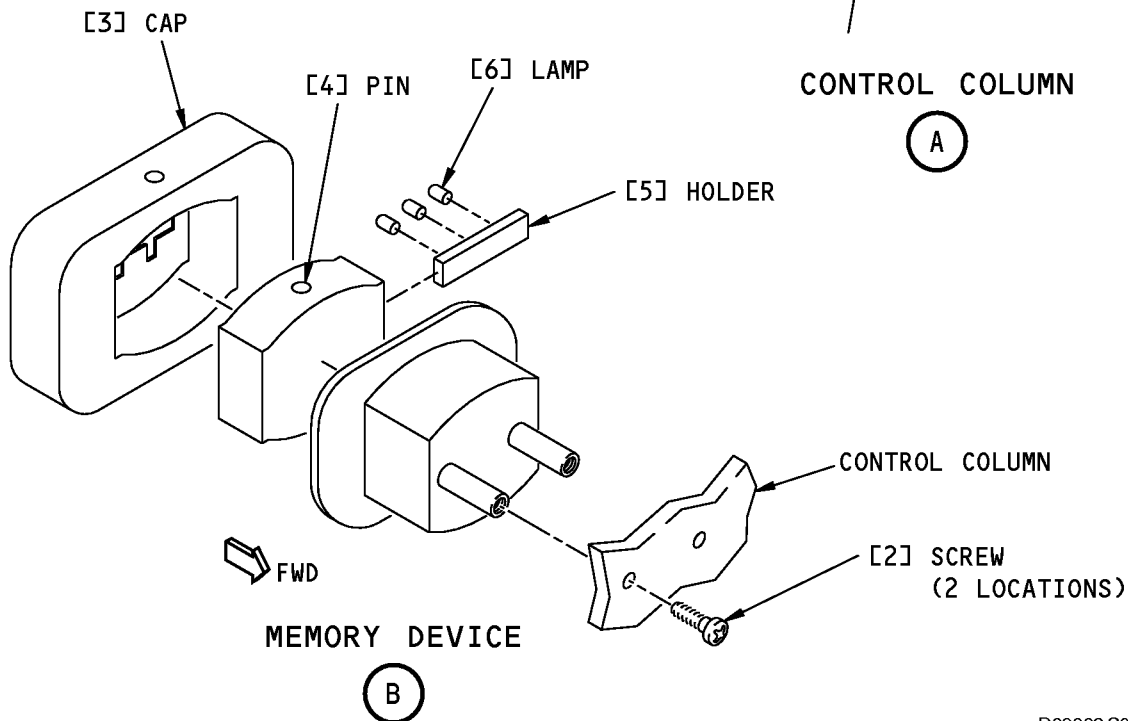
[1] MEMORY DEVICE
(TYPICAL)

SEE (B)



CONTROL COLUMN

(A)



D69663 S0000163547_V2

Memory Device Lamp Replacement
Figure 202/33-11-00-990-802

EFFECTIVITY
HAP ALL

33-11-00

Page 209
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-11-00-960-804

5. Master Warning And Caution Lights - 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. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
21	Lamp	33-14-00-09-130	HAP 031-054, 101-999
		33-14-00-09A-055	HAP 001-007
		33-14-00-09A-150	HAP 008-013, 015-026, 028-030

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

EFFECTIVITY
HAP ALL

33-11-00

Page 210
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	13	C00131	MASTER CAUTION ANNUNCIATOR BAT

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** —————

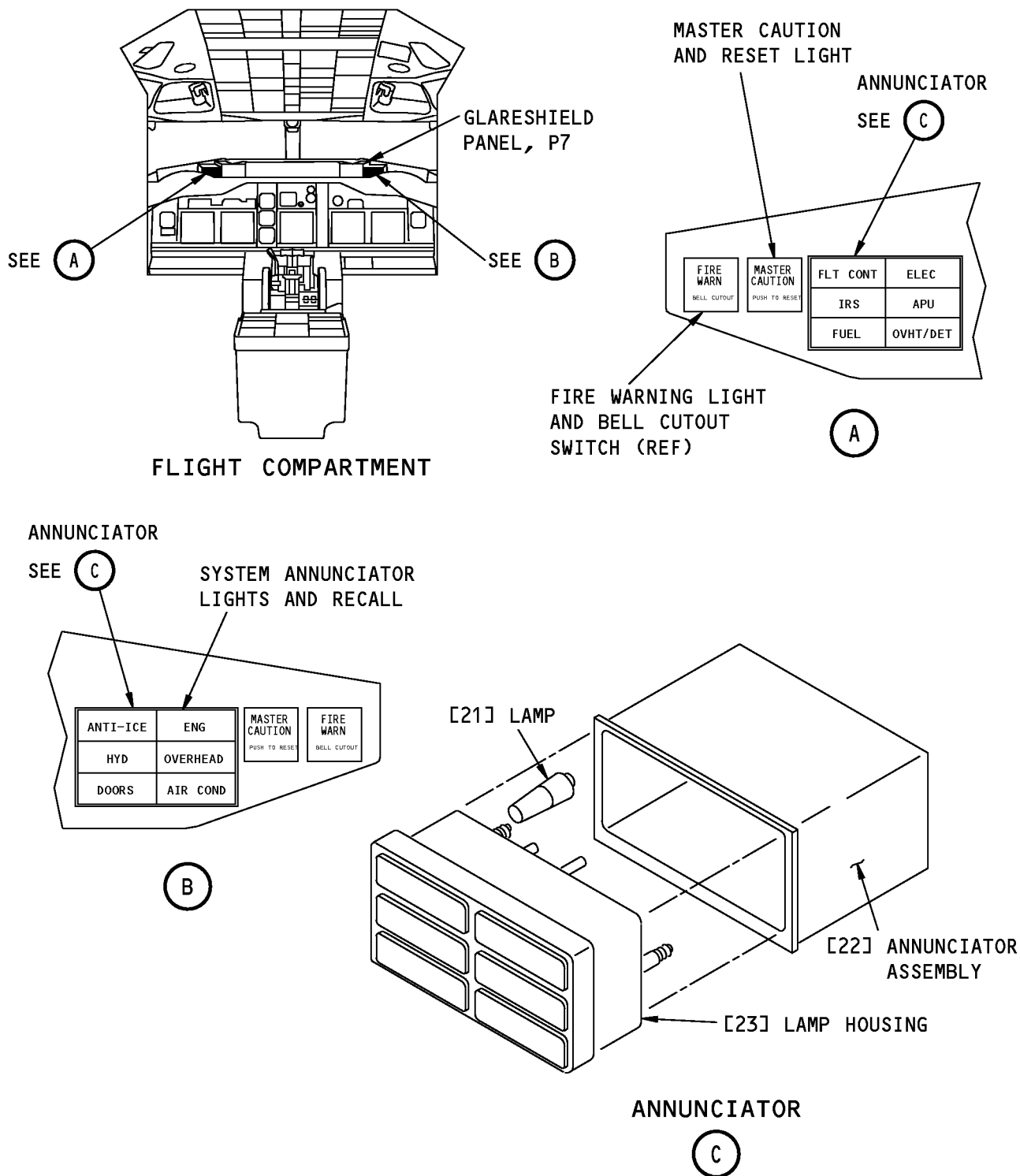
EFFECTIVITY
HAP ALL

D633A101-HAP

33-11-00

Page 211
Oct 15/2008

AIRCRAFT MAINTENANCE MANUAL



Master Warning And Caution Lights - Lamp Replacement
Figure 203/33-11-00-990-803

EFFECTIVITY
HAP ALL

33-11-00

Page 212
Jun 10/2007

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-11-00-960-806

6. Master Warning And Caution Lights - Light Assembly 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. 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

EFFECTIVITY
HAP ALL

33-11-00

Page 213
Jun 10/2007

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	13	C00131	MASTER CAUTION ANNUNCIATOR BAT

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** —————

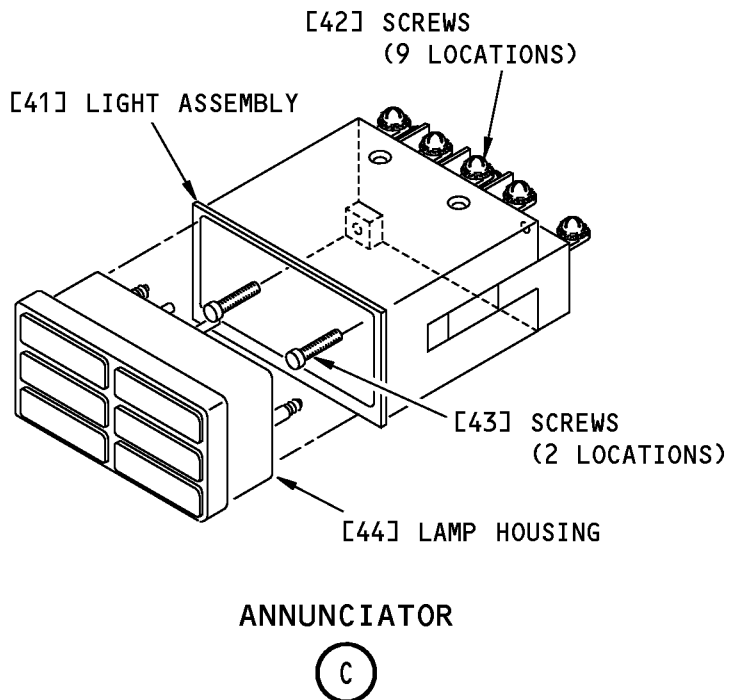
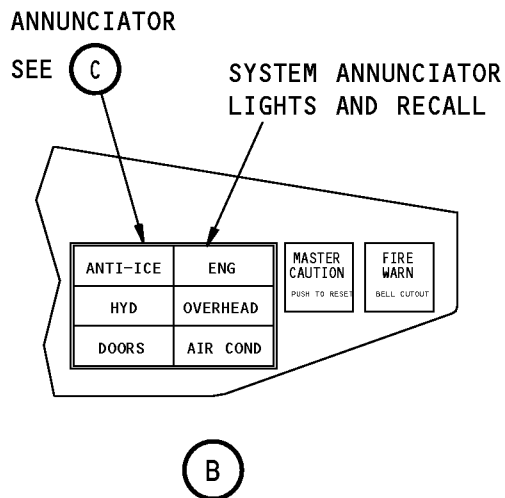
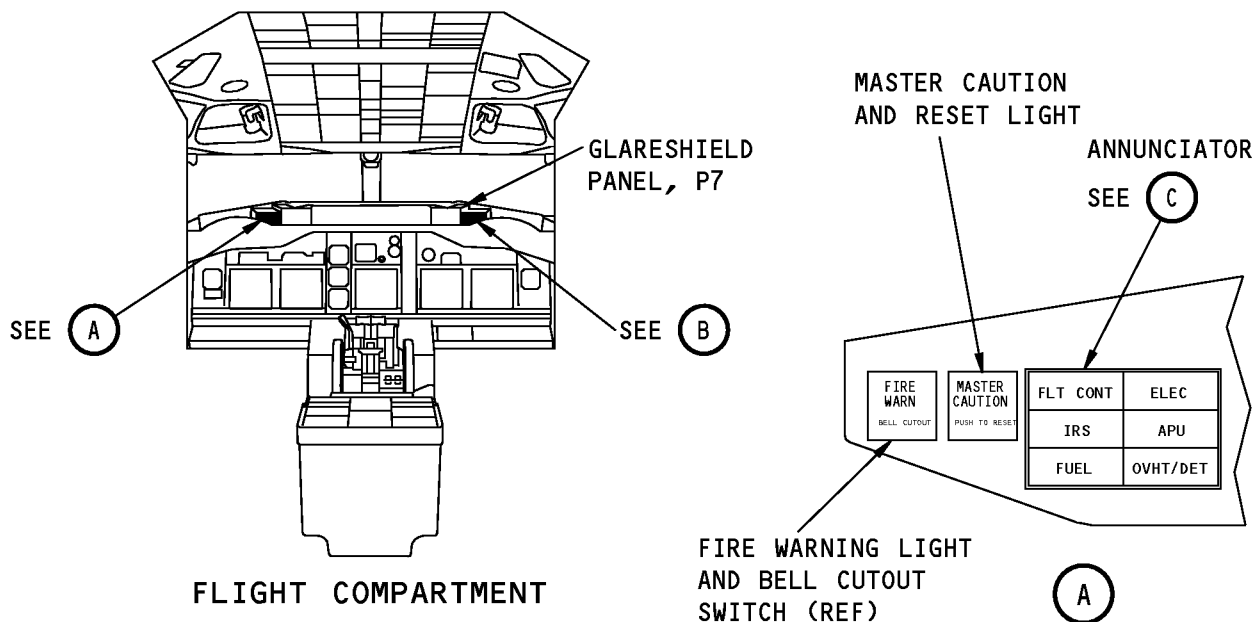
EFFECTIVITY
HAP ALL

D633A101-HAP

33-11-00

Page 214
Jun 10/2007

AIRCRAFT MAINTENANCE MANUAL



Master Warning And Caution Lights - Light Assembly Replacement
Figure 204/33-11-00-990-804

EFFECTIVITY
HAP ALL

33-11-00



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

MISCELLANEOUS LIGHTS - MAINTENANCE PRACTICES

1. General

A. This procedure has these tasks:

- (1) Panel/Glareshield Floodlight - Light Assembly Replacement
- (2) Control Stand Floodlight - Lamp Replacement
- (3) Oxygen Mask Floodlight - Light Assembly Replacement
- (4) Dome Light - Lamp Replacement
- (5) Left Dome Light - Removal
- (6) Left Dome Light - Installation
- (7) Circuit Breaker Panel Light - Lamp Replacement
- (8) Dimmer Control Unit - Replacement
- (9) Panel Floodlights - Operational Test of the Standby Relay

TASK 33-14-00-960-801

2. Panel/Glareshield Floodlight - 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)

B. Location Zones

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

C. Procedure

SUBTASK 33-14-00-860-001

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

F/O Electrical System Panel, P6-3

Row	Col	Number	Name
A	11	C00751	CONTROL CABIN LIGHTING PANEL FLOOD CONT
A	12	C01425	CONTROL 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 [4].
 - (b) Disconnect the electrical wire [3].
 - (c) Replace the light assembly, [1] or [5].
 - (d) Connect the electrical wire [3].
 - (e) Tighten the fasteners, [2] or [4].

EFFECTIVITY
HAP ALL

D633A101-HAP

33-14-00

Page 201
Oct 10/2005



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

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	CONTROL CABIN LIGHTING PANEL FLOOD CONT
A	12	C01425	CONTROL 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.

————— **END OF TASK** —————

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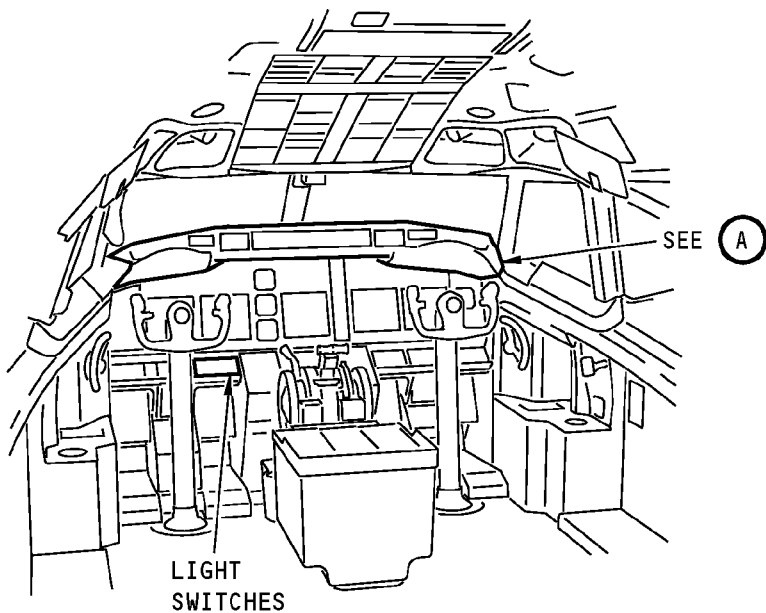
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Page 202
Jun 15/2008

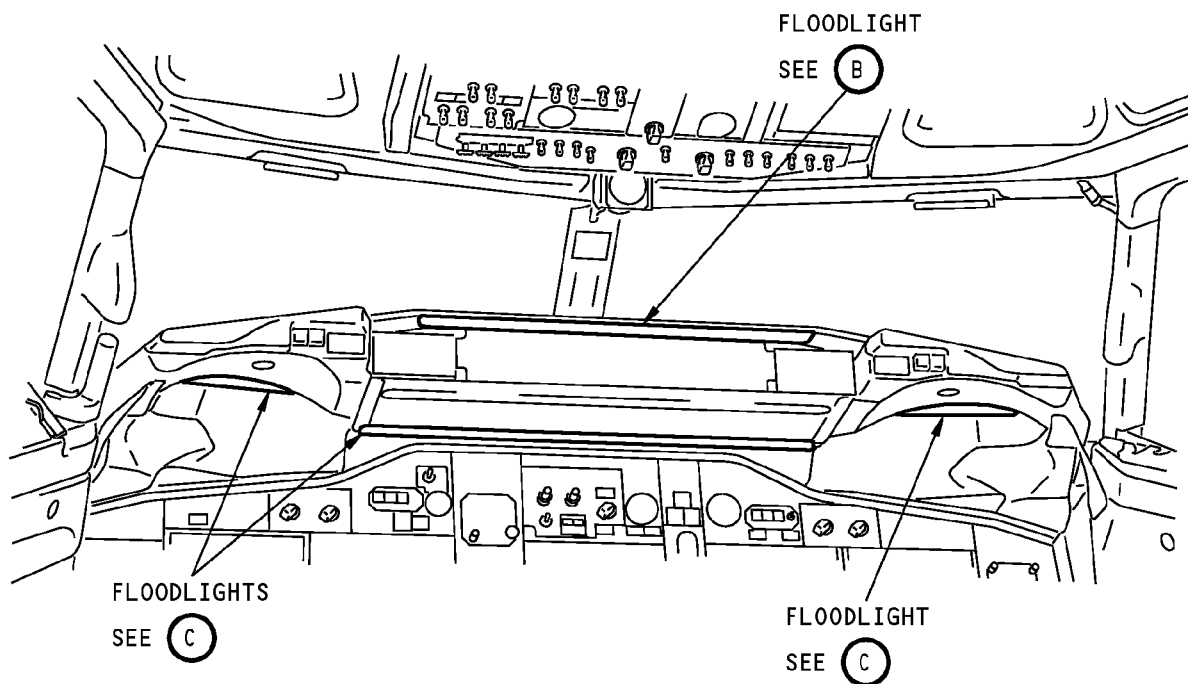


737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL



FLIGHT COMPARTMENT



FORWARD PANEL AND GLARESHIELD

(A)

Panel/Glareshield Floodlight - Light Assembly Replacement
Figure 201 (Sheet 1 of 2)/33-14-00-990-801

EFFECTIVITY
HAP ALL

33-14-00

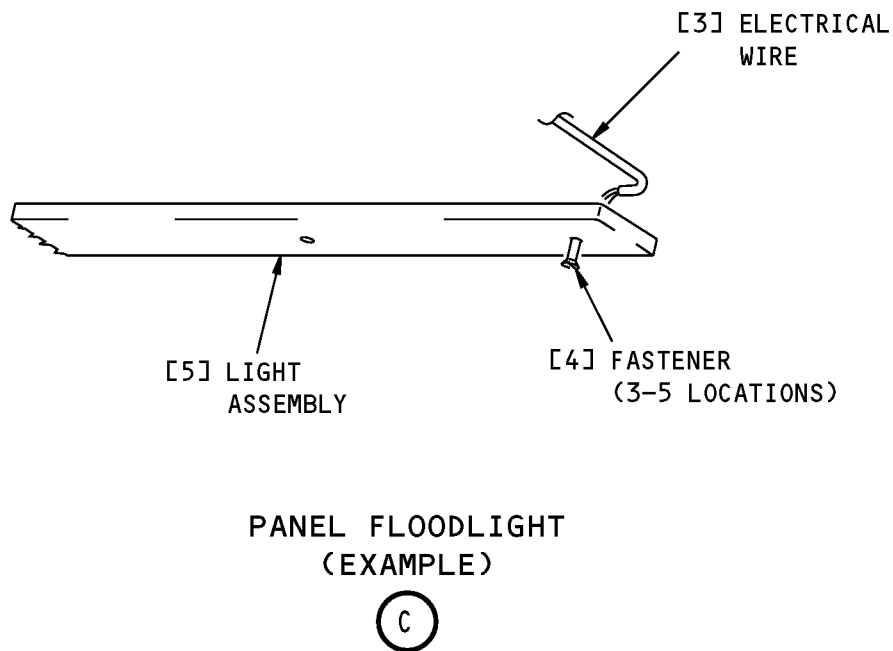
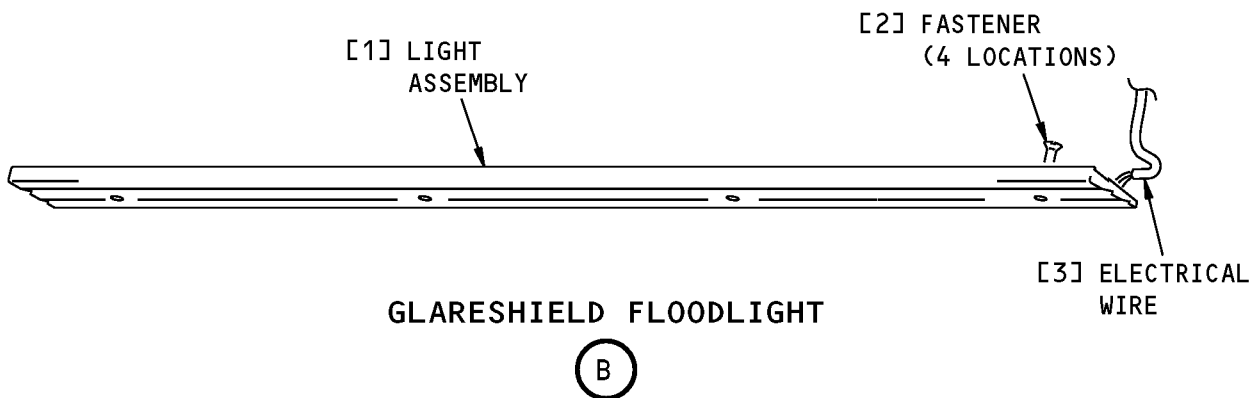
Page 203
Oct 10/2003

D633A101-HAP

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



Panel/Glareshield Floodlight - Light Assembly Replacement
Figure 201 (Sheet 2 of 2)/33-14-00-990-801

EFFECTIVITY	
HAP ALL	

D633A101-HAP

33-14-00

Page 204
Oct 10/2003



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-14-00-960-802

3. Control Stand Floodlight - 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 33-14-00-860-020

- (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.
- (c) Set the switch to the off mode.
 - 1) Make sure the light goes off.
- (d) Set the switch to the usual mode.

EFFECTIVITY
HAP ALL

D633A101-HAP

33-14-00

Page 205
Jun 15/2008



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

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.

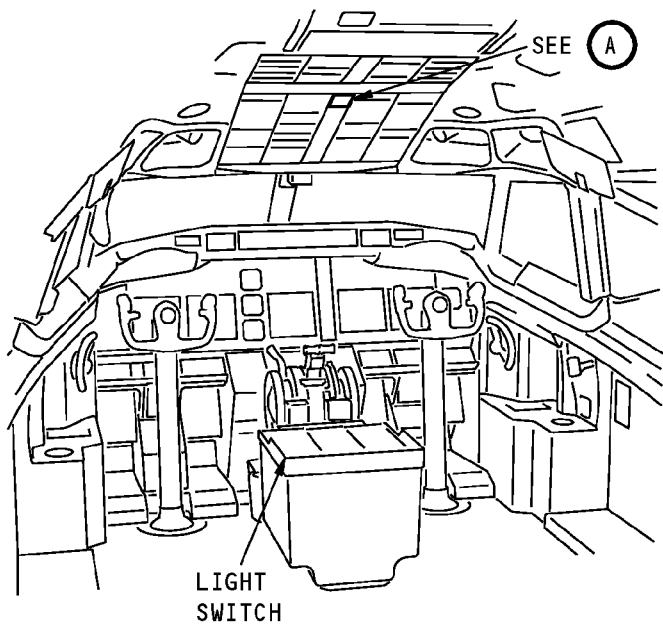
END OF TASK

EFFECTIVITY
HAP ALL

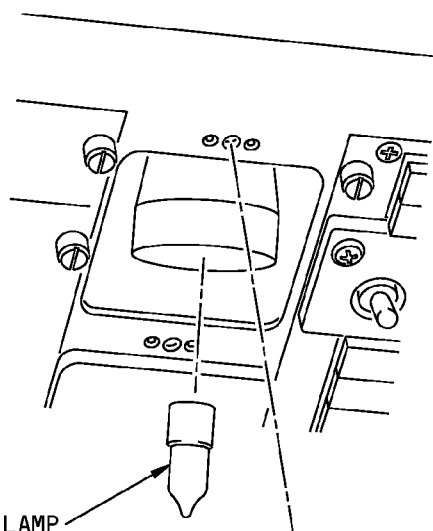
D633A101-HAP

33-14-00

Page 206
Jun 15/2008



FLIGHT COMPARTMENT



CONTROL STAND FLOODLIGHT

(A)

Control Stand Floodlight - Lamp Replacement
Figure 202/33-14-00-990-802

EFFECTIVITY
HAP ALL

33-14-00

Page 207
Oct 10/2003

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-14-00-960-803

4. Oxygen Mask Floodlight - 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)

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 33-14-00-860-007

- (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:

- Loosen the fasteners [41].
- Disconnect the electrical wire [43].
- Replace the light assembly [42].
- Connect the electrical wire [43].
- 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

- 1) Make sure the light comes on.

NOTE: The light will be very dim.

EFFECTIVITY
HAP ALL

33-14-00

Page 208
Oct 10/2003

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (b) Open this circuit breaker:

F/O Electrical System Panel, P6-3

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

- 1) Make sure the light goes off.

- (c) Close this circuit breaker:

F/O Electrical System Panel, P6-3

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

SUBTASK 33-14-00-940-004

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

SUBTASK 33-14-00-860-009

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

————— **END OF TASK** —————

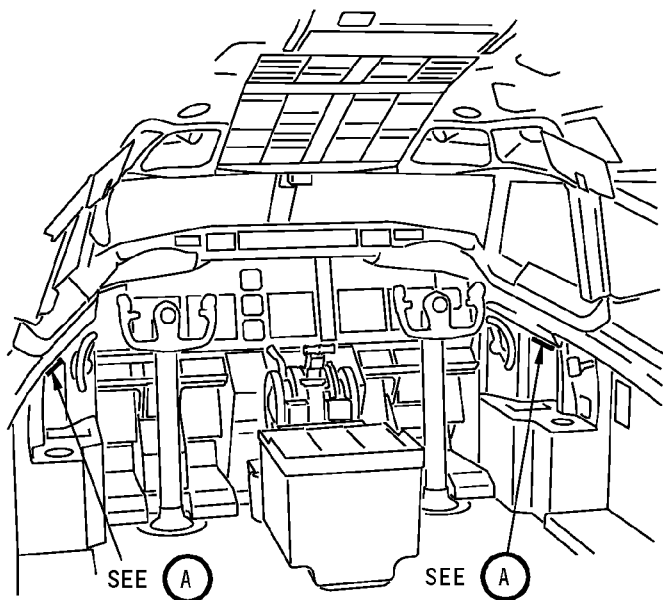
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HAP ALL

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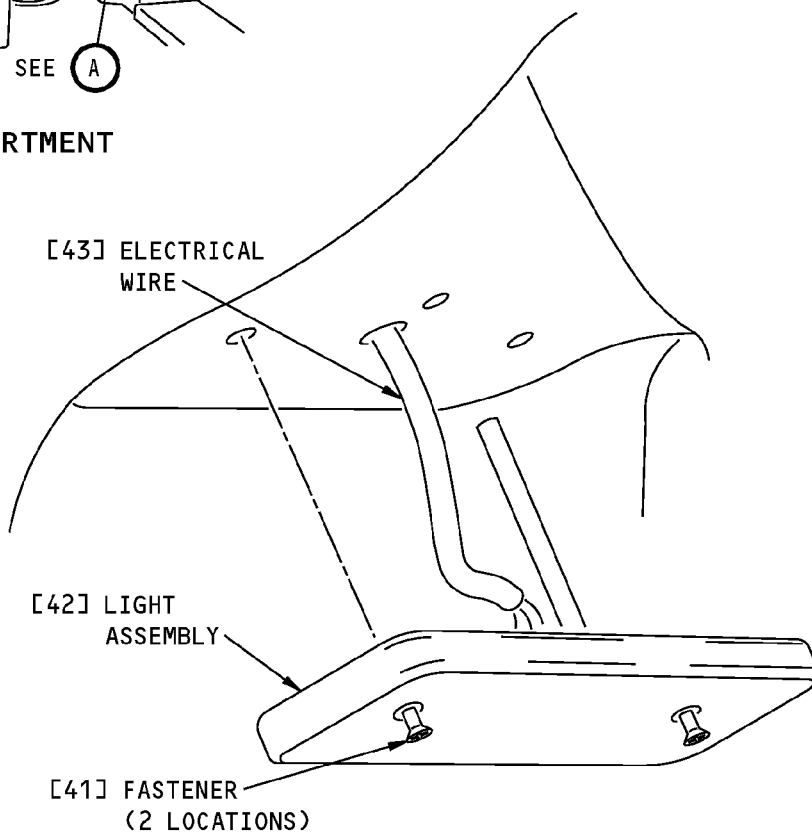
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33-14-00

Page 209
Oct 10/2003



FLIGHT COMPARTMENT



**OXYGEN MASK FLOODLIGHT
(EXAMPLE)**

(A)

**Oxygen Mask Floodlight - Light Assembly Replacement
Figure 203/33-14-00-990-803**

EFFECTIVITY
HAP ALL

33-14-00

Page 210
Oct 10/2003

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-14-00-960-804

5. Dome 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)

B. Location Zones

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

C. 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 [65].
 - (b) Remove the dome light lamp, [62] or [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 [64].
 - (b) Install the lens, [61] or [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.
 - 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.

EFFECTIVITY
HAP ALL

D633A101-HAP

33-14-00

Page 211
Oct 10/2003



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

SUBTASK 33-14-00-860-011

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

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

D633A101-HAP

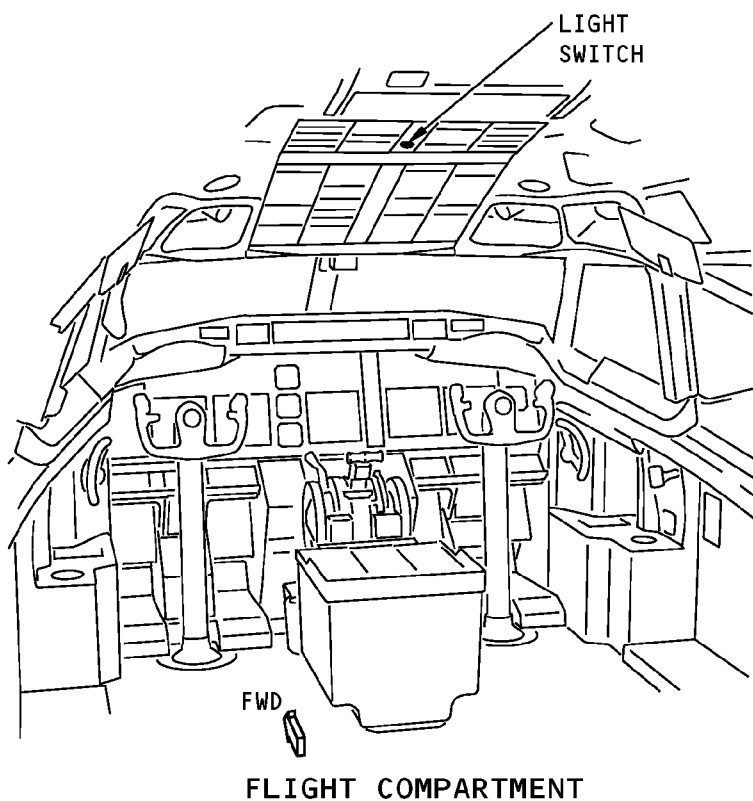
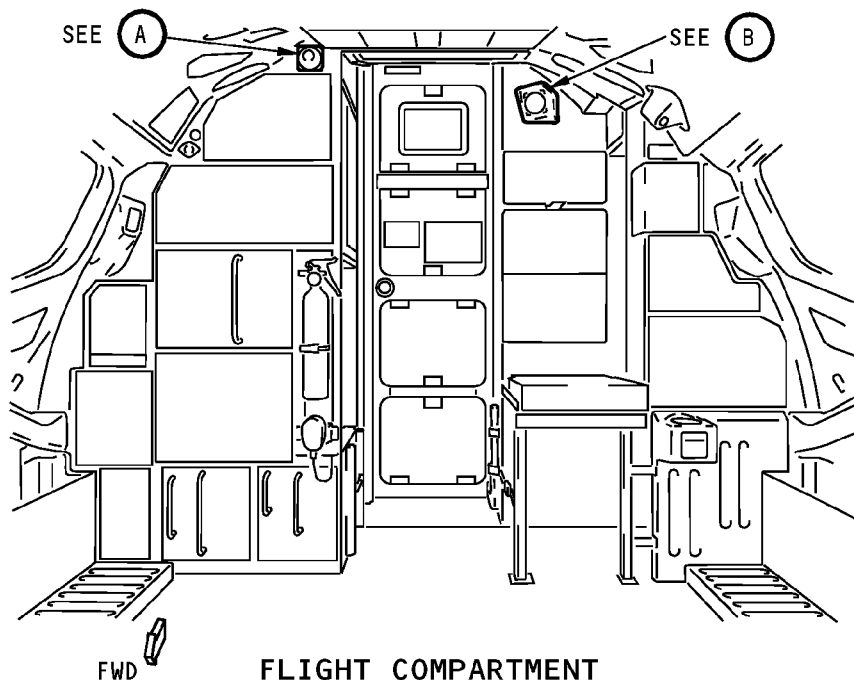
33-14-00

Page 212
Oct 10/2003



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL



Dome Light - Lamp Replacement
Figure 204 (Sheet 1 of 2)/33-14-00-990-804

EFFECTIVITY
HAP ALL

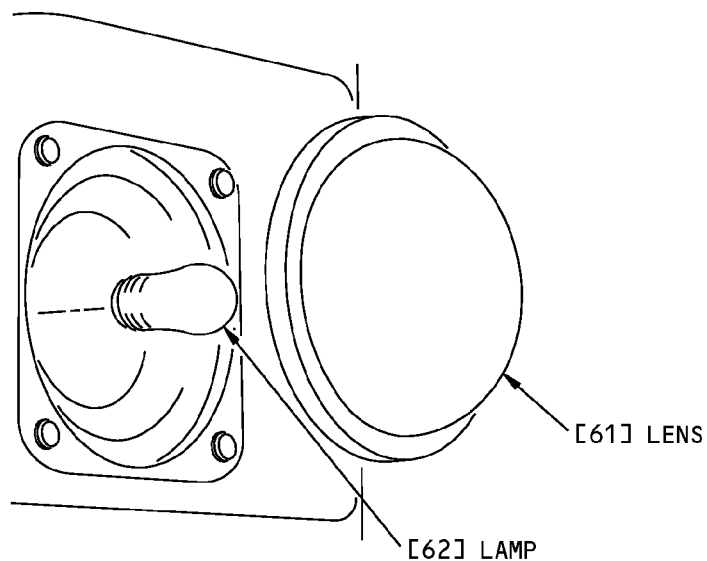
33-14-00

Page 213
Oct 10/2003

D633A101-HAP

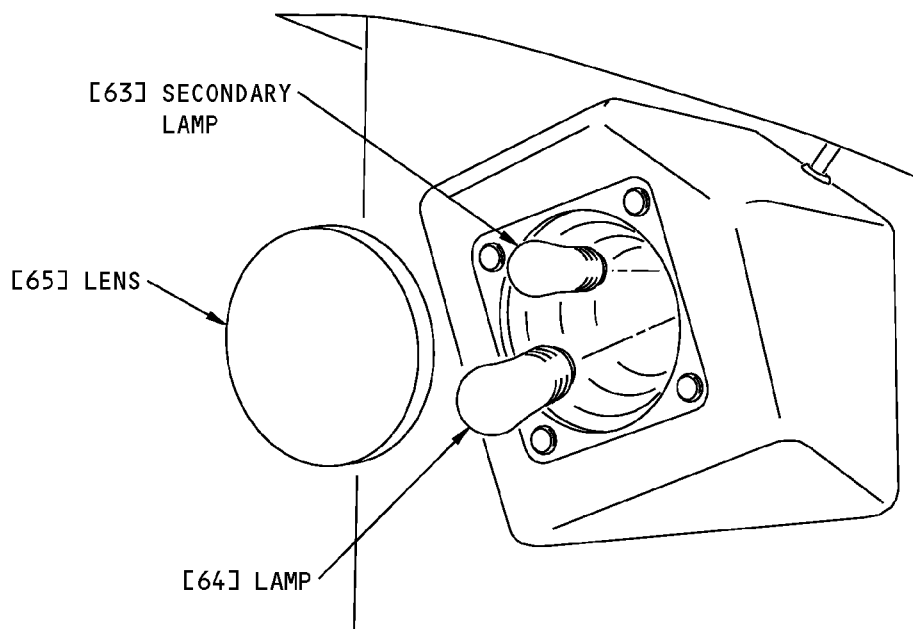
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**737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL**



DOVE LIGHT ASSEMBLY

A



DOVE LIGHT ASSEMBLY

B

**Dome Light - Lamp Replacement
Figure 204 (Sheet 2 of 2)/33-14-00-990-804**

**EFFECTIVITY
HAP ALL**

D633A101-HAP

33-14-00

Page 214
Oct 10/2003



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-14-00-000-801

6. 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

7. 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

EFFECTIVITY
HAP ALL

33-14-00

Page 215
Jun 10/2007

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

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.

EFFECTIVITY
HAP ALL

33-14-00

Page 216
Feb 10/2004

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- 1) Make sure the secondary lamp goes off.
- 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

8. Circuit Breaker Panel Light - Lamp 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 33-14-00-860-022

- (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:
 - (a) If the light has a cover, loosen the fastener, [81] or [88], and lift away the cover, [82] or [87].
 - (b) 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:
 - (a) At the P5 panel, set the switch for the circuit breaker panel lights 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.

EFFECTIVITY
HAP ALL

D633A101-HAP

33-14-00

Page 217
Jun 15/2008



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

SUBTASK 33-14-00-860-013

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

————— **END OF TASK** —————

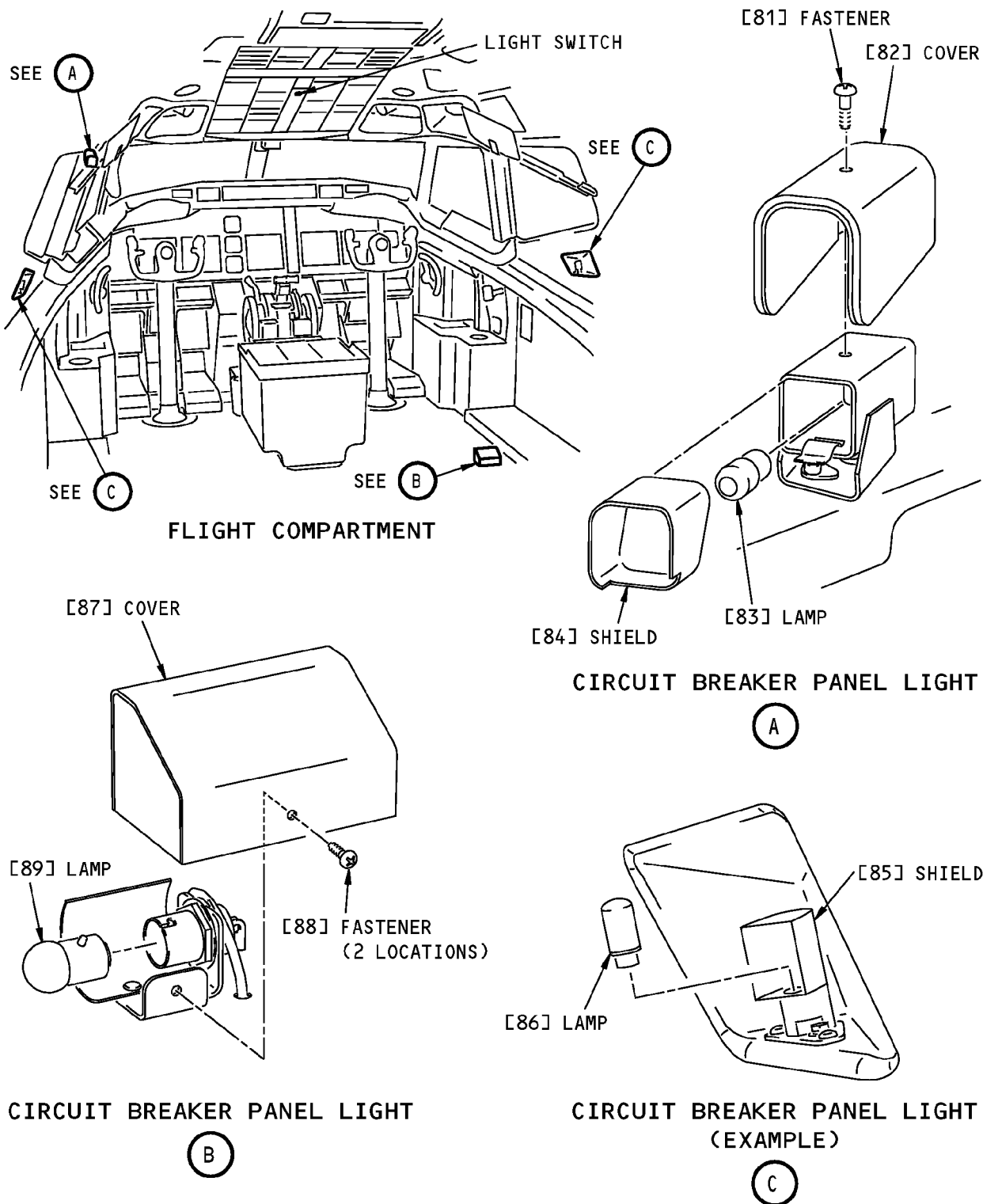
EFFECTIVITY
HAP ALL

D633A101-HAP

33-14-00

Page 218
Jun 15/2008

AIRCRAFT MAINTENANCE MANUAL



Circuit Breaker Panel Light - Lamp Replacement
Figure 205/33-14-00-990-805

EFFECTIVITY
HAP ALL

33-14-00

Page 219
Jun 15/2008

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-14-00-960-806

9. Dimmer Control Unit - 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)
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	CONTROL CABIN LIGHTING PANEL FLOOD CONT
A	12	C01425	CONTROL CABIN LIGHTING PANEL FLOOD STBY

SUBTASK 33-14-00-960-007

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

- Loosen the fasteners [101] on the mounting plate for access to the dimmer control unit.
- Pull out the mounting plate along with the dimmer control unit.
- Disconnect the electrical connector [102].
- Loosen the fasteners [104] that hold the dimmer control to the mounting plate [105].
- Replace the dimmer control unit [103].
- Tighten the fasteners [104].
- Connect the electrical connector [102].
- Put the dimmer control unit and mounting plate [105] back in their position.
- 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	CONTROL CABIN LIGHTING PANEL FLOOD CONT
A	12	C01425	CONTROL CABIN LIGHTING PANEL FLOOD STBY

EFFECTIVITY
HAP ALL

33-14-00

Page 220
Jun 15/2008

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 33-14-00-860-016

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

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

EFFECTIVITY
HAP ALL

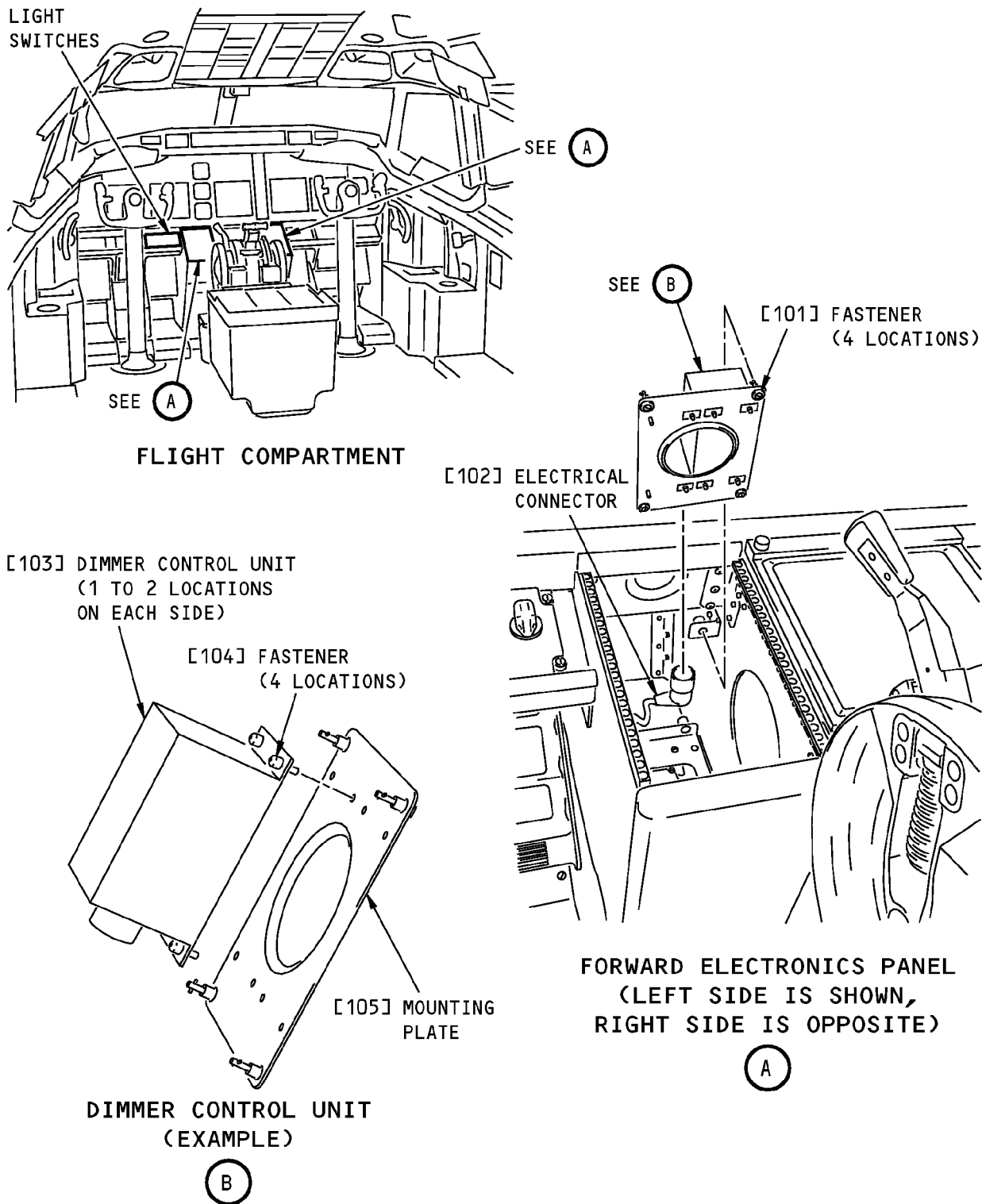
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33-14-00

Page 221
Jun 15/2008

AIRCRAFT MAINTENANCE MANUAL



Dimmer Control Unit - Replacement
Figure 206/33-14-00-990-806

EFFECTIVITY
HAP ALL

33-14-00

Page 222
Jun 15/2008

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-14-00-710-801

10. Panel Floodlights - Operational Test of the Standby Relay

A. References

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

B. Location Zones

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

C. Procedure

SUBTASK 33-14-00-860-018

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

SUBTASK 33-14-00-710-007

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

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

(a) At the forward panel on the floodlight control module, P1-5, set the switch for the main panel floodlights to the bright mode.

1) Make sure the panel floodlights come on brightly.

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

F/O Electrical System Panel, P6-3

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

1) Make sure the panel floodlights become dim.

(c) Set the switch to the off or dim mode.

1) Make sure the switch has no effect of the panel floodlights.

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

F/O Electrical System Panel, P6-3

Row	Col	Number	Name
A	11	C00751	CONTROL 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
HAP ALL

33-14-00

Page 223
Jun 15/2008

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

FLIGHT CREW LIGHTS - MAINTENANCE PRACTICES

1. General

A. This procedure has these tasks:

- (1) Map light - Lamp Replacement
- (2) Flight Kit/Reading Light - Lamp Replacement
- (3) Chart Light - Lamp Replacement

TASK 33-17-00-960-801

2. Map 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)
SSM 33-17-11	System Schematics Manual

B. Location Zones

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

C. Procedure

SUBTASK 33-17-00-860-001

- (1) At the auxiliary panel, P21 or P22, 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 (SSM 33-17-11):
 - (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 P22 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.

EFFECTIVITY
HAP ALL

D633A101-HAP

33-17-00

Page 201
Feb 10/2004



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- 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

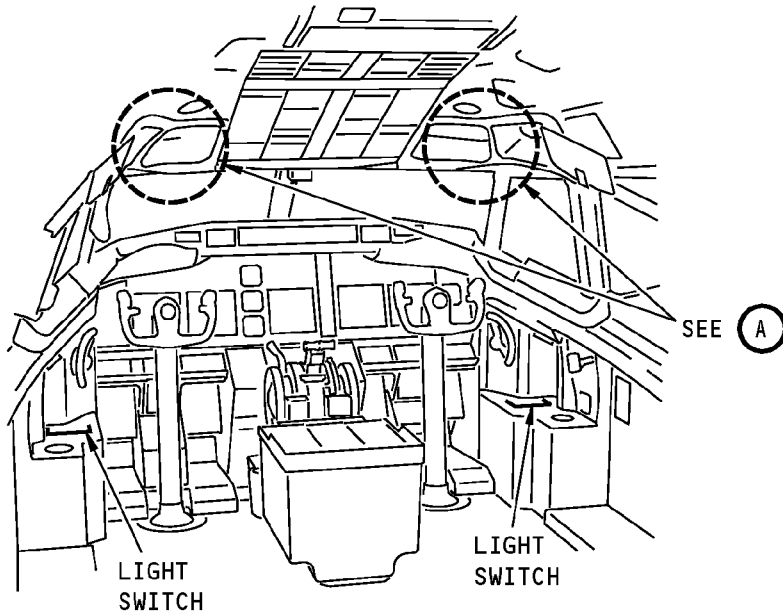
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HAP ALL

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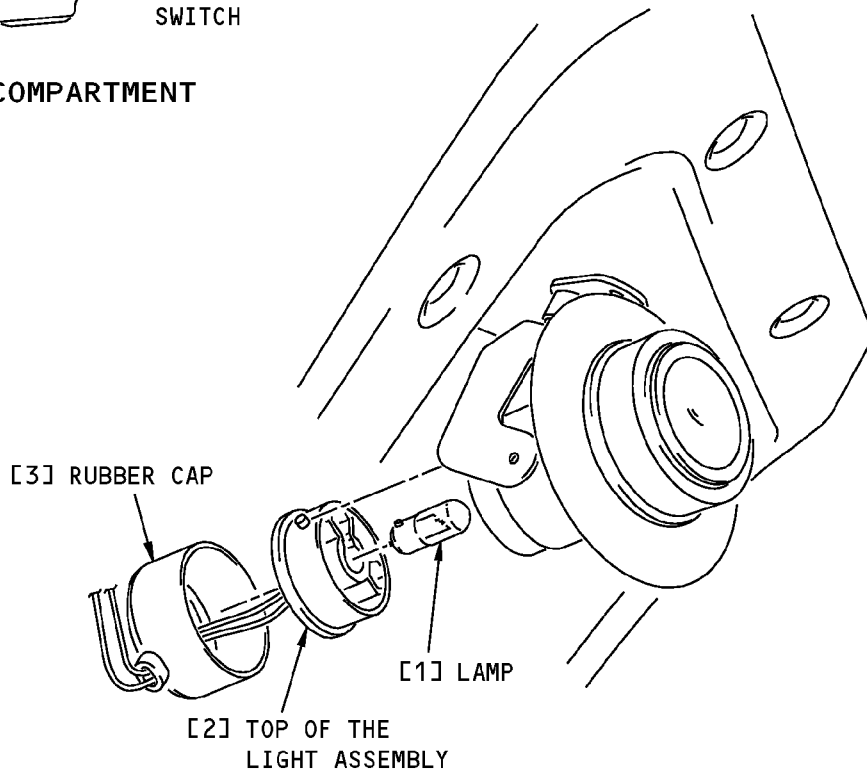
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33-17-00

Page 202
Oct 10/2003



FLIGHT COMPARTMENT



**MAP LIGHT
(EXAMPLE)**

(A)

**Map Light - Lamp Replacement
Figure 201/33-17-00-990-801**

EFFECTIVITY
HAP ALL

33-17-00

Page 203
Oct 10/2003

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-17-00-960-802

3. Flight Kit/Reading 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)
SSM 33-17-11	System Schematics Manual

B. Location Zones

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

C. 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 (SSM 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.

SUBTASK 33-17-00-860-006

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

————— **END OF TASK** —————

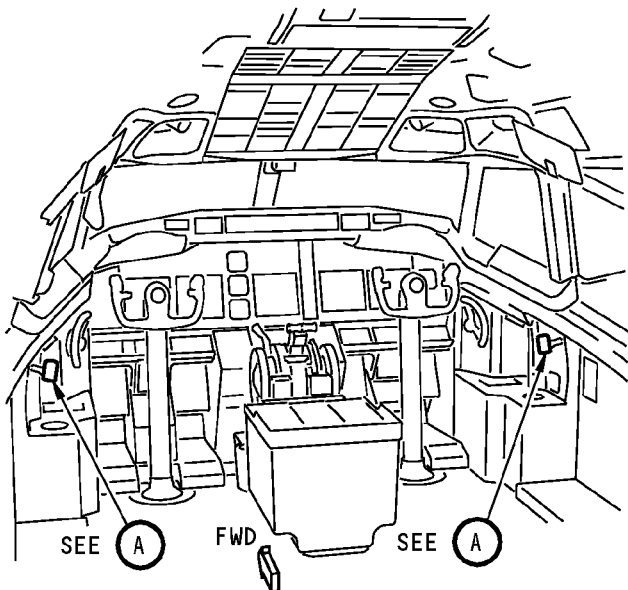
EFFECTIVITY
HAP ALL

33-17-00

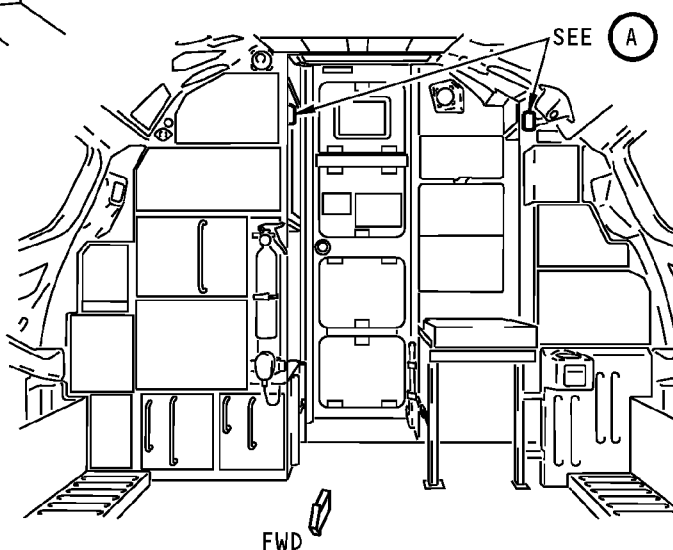
Page 204
Feb 10/2004

D633A101-HAP

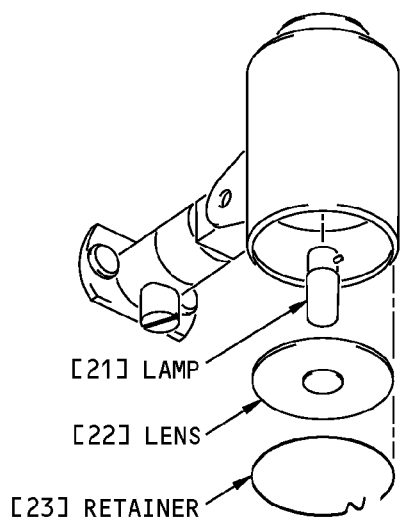
AIRCRAFT MAINTENANCE MANUAL



FLIGHT COMPARTMENT



FLIGHT COMPARTMENT



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

A

**Flight Kit/Reading Light - Lamp Replacement
Figure 202/33-17-00-990-802**

**EFFECTIVITY
HAP ALL**

33-17-00

Page 205
Oct 10/2003

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-17-00-960-803

4. Chart 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)
SSM 33-17-11	System Schematics Manual

B. Location Zones

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

C. Procedure

SUBTASK 33-17-00-860-007

(1) At the auxiliary panel, P21 or P22, 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 (SSM 33-17-11):

HAP 001-013, 015-026, 048-053, 107-999

- (a) Get access to the back of the light assembly.
 - 1) Loosen the fasteners [41] and lower the access panel [42].

HAP 028-047, 054, 101-106

- (b) 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 nut [47] that attaches the bracket [46] to the structure.
 - 3) Remove the bracket [46].
- (c) 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].

HAP ALL

- (d) Lift off the rubber cap [45].

HAP 001-013, 015-026, 048-053, 107-999

- (e) Hold the access panel while you remove the top of the light assembly [44].

HAP 028-047, 054, 101-106

- (f) Remove the top of the light assembly [44].

HAP ALL

- (g) Replace the lamp [43].
- (h) Install the top of the light assembly [44].

EFFECTIVITY
HAP ALL

33-17-00

Page 206
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (i) Put on the rubber cap [45].

HAP 001-013, 015-026, 048-053, 107-999

- (j) Install the access panel [42] and tighten the fasteners [41].

HAP 028-047, 054, 101-106

- (k) For the first officer's chart light, install the access panel [42] and tighten the fasteners [41].
- (l) For the captain's chart light, do these steps:
 - 1) Tighten the bolts [48] and washers [49] that attaches the bracket [46] to the chart light.
 - 2) Put the bracket [46] in its position.
 - 3) Install the nuts [47] that attaches 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 attaches the bracket [46] to the structure.

HAP ALL

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 P22 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) Do this task: Remove Electrical Power, TASK 24-22-00-860-812.

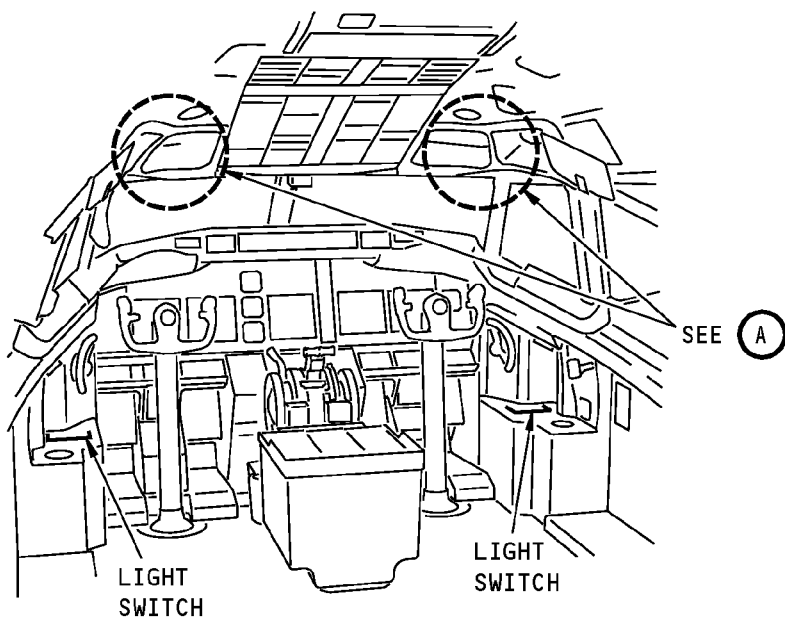
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EFFECTIVITY
HAP ALL

D633A101-HAP

33-17-00

Page 207
Feb 15/2009



FLIGHT COMPARTMENT

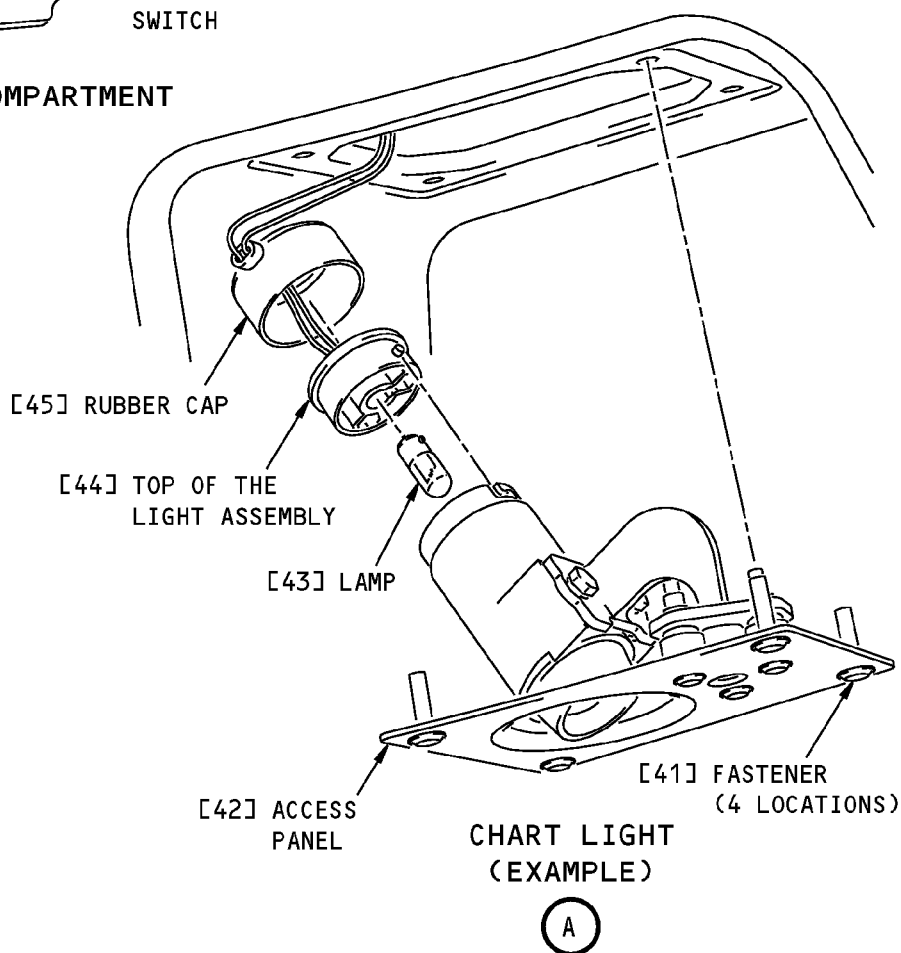


Chart Light - Lamp Replacement
Figure 203 (Sheet 1 of 2)/33-17-00-990-803

EFFECTIVITY

HAP 001-013, 015-026, 048-053, 107-999

D633A101-HAP

33-17-00

Page 208
 Oct 15/2008

AIRCRAFT MAINTENANCE MANUAL

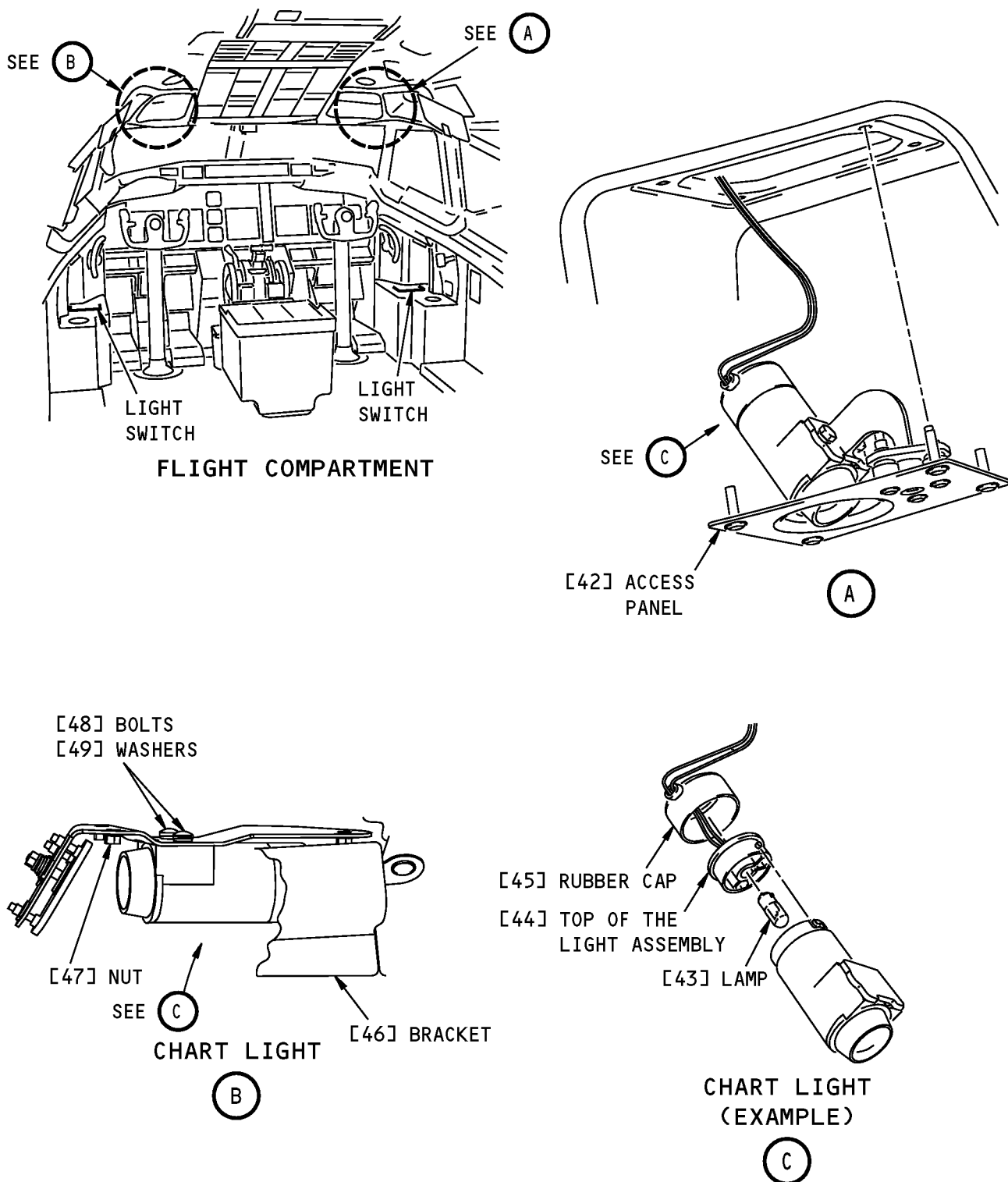


Chart Light - Lamp Replacement
Figure 203 (Sheet 2 of 2)/33-17-00-990-803

EFFECTIVITY
HAP 028-047, 054, 101-106

D633A101-HAP

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33-17-00

Page 209
 Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

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

1. General

A. This procedure has these tasks:

- (1) Indicator Light - Lamp Replacement
- (2) Indicator Light - Light Assembly Replacement
- (3) Lighted Pushbutton Switch - Lamp Replacement
- (4) Lightplate - Replacement
- (5) Annunciator And Dimming Module - Module Replacement.
- (6) Master Dim and Test - Operational Test

TASK 33-18-00-960-801

2. Indicator 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. 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.

EFFECTIVITY
HAP ALL

33-18-00

Page 201
Oct 10/2003

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

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

1) Make sure the indicator light comes on.

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

SUBTASK 33-18-00-940-004

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

SUBTASK 33-18-00-860-006

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

END OF TASK

EFFECTIVITY
HAP ALL

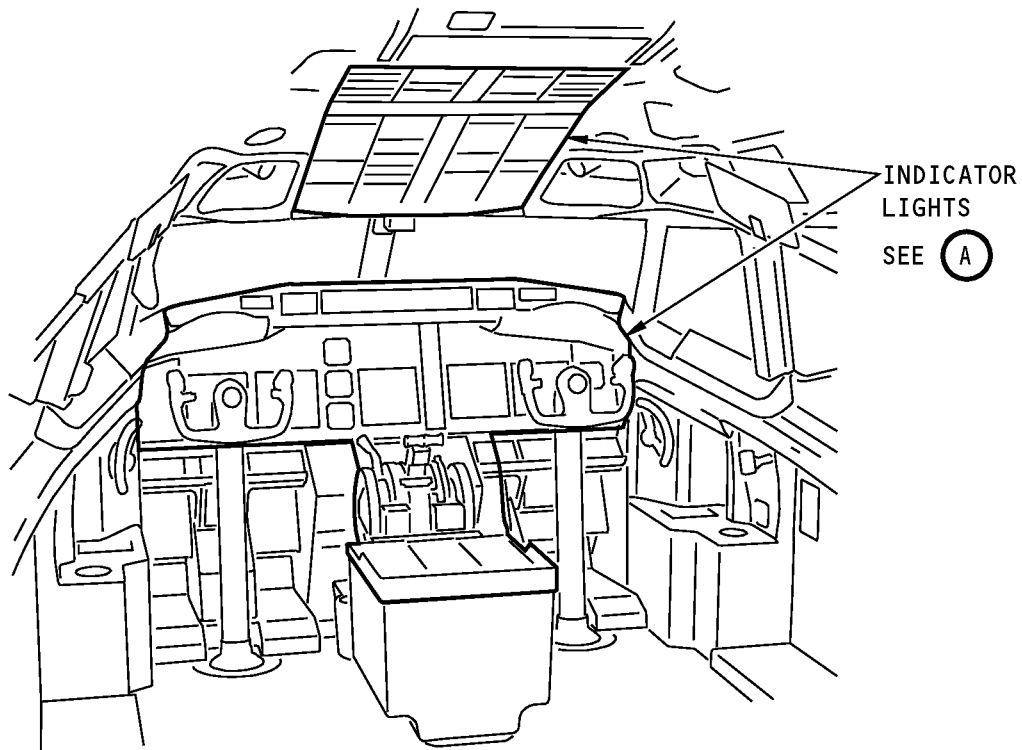
D633A101-HAP

33-18-00

Page 202
Oct 10/2003



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



FLIGHT COMPARTMENT

Indicator Light - Lamp/Light Assembly Replacement
Figure 201 (Sheet 1 of 2)/33-18-00-990-802

EFFECTIVITY
HAP ALL

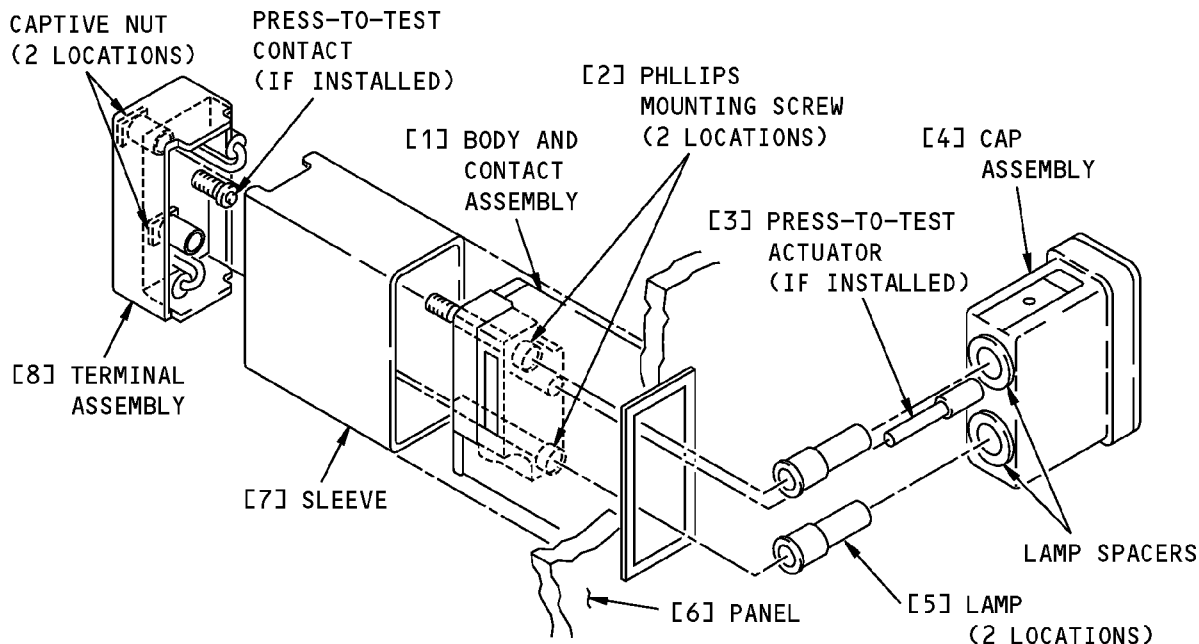
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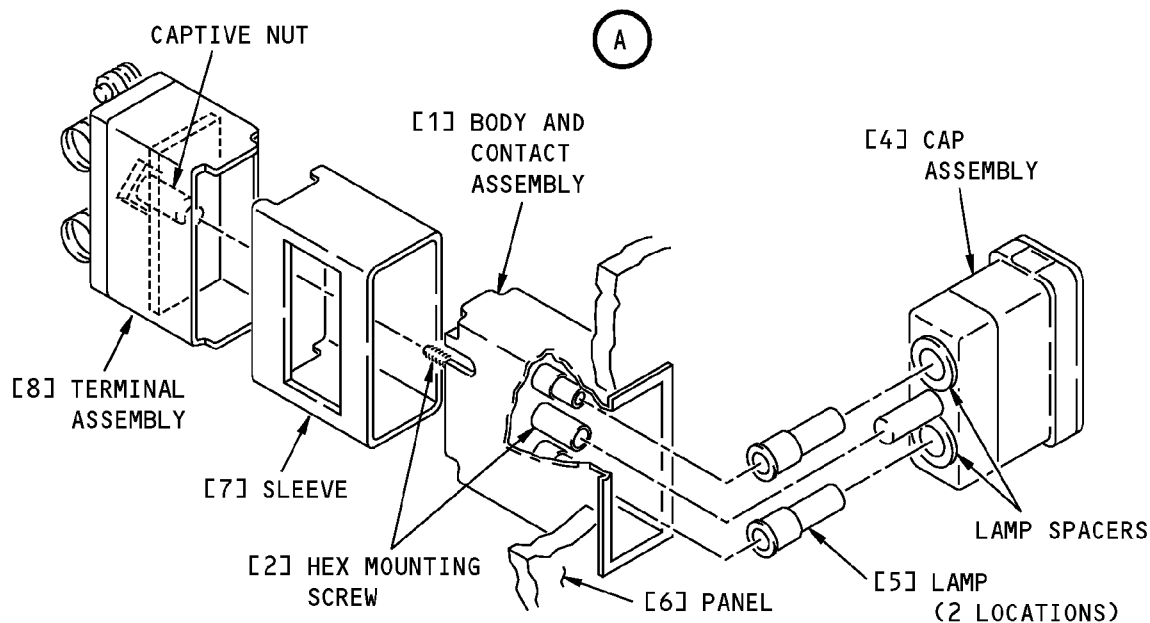
33-18-00

Page 203
Oct 10/2003

AIRCRAFT MAINTENANCE MANUAL



INDICATOR LIGHT WITH PHILLIPS MOUNTING SCREWS
(EXAMPLE)



INDICATOR LIGHT WITH A HEX MOUNTING SCREW
(EXAMPLE)

Indicator Light - Lamp/Light Assembly Replacement
Figure 201 (Sheet 2 of 2)/33-18-00-990-802

EFFECTIVITY
HAP ALL

33-18-00

Page 204
Oct 10/2003

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-18-00-960-802

3. Indicator 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)

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 System Schematics Manual to find the correct circuit breakers for the indicator light (SSM 33-18).

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.

EFFECTIVITY
HAP ALL

33-18-00

Page 205
Feb 15/2008

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 33-18-00-860-008

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

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

4. Lighted Pushbutton Switch - Lamp Replacement

(Figure 202)

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.

EFFECTIVITY
HAP ALL

33-18-00

Page 206
Feb 15/2008

D633A101-HAP

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737-600/700/800/900

AIRCRAFT MAINTENANCE 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)
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].

EFFECTIVITY
HAP ALL

33-18-00

Page 207
Feb 15/2008

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (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) Use the applicable system test to operate the switch.
 - 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
HAP ALL

D633A101-HAP

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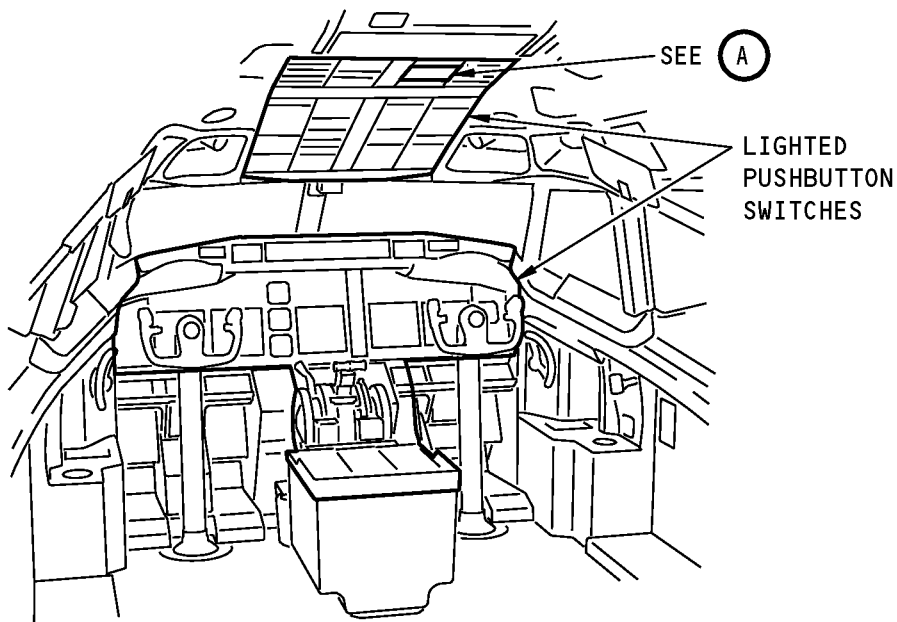
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Page 208
Feb 15/2008

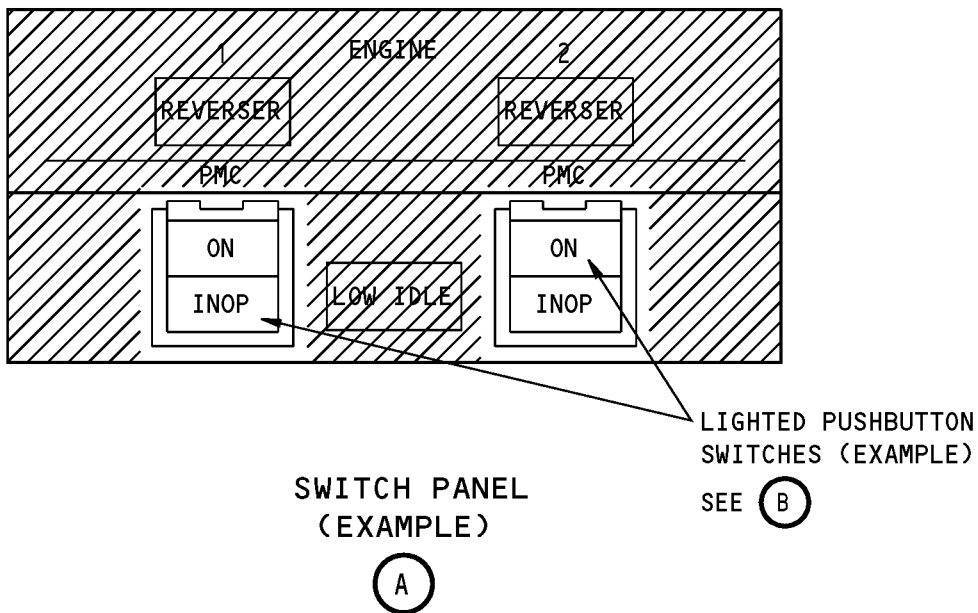


737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL



FLIGHT COMPARTMENT



Lighted Pushbutton Switch
Figure 202 (Sheet 1 of 3)/33-18-00-990-803

EFFECTIVITY
HAP ALL

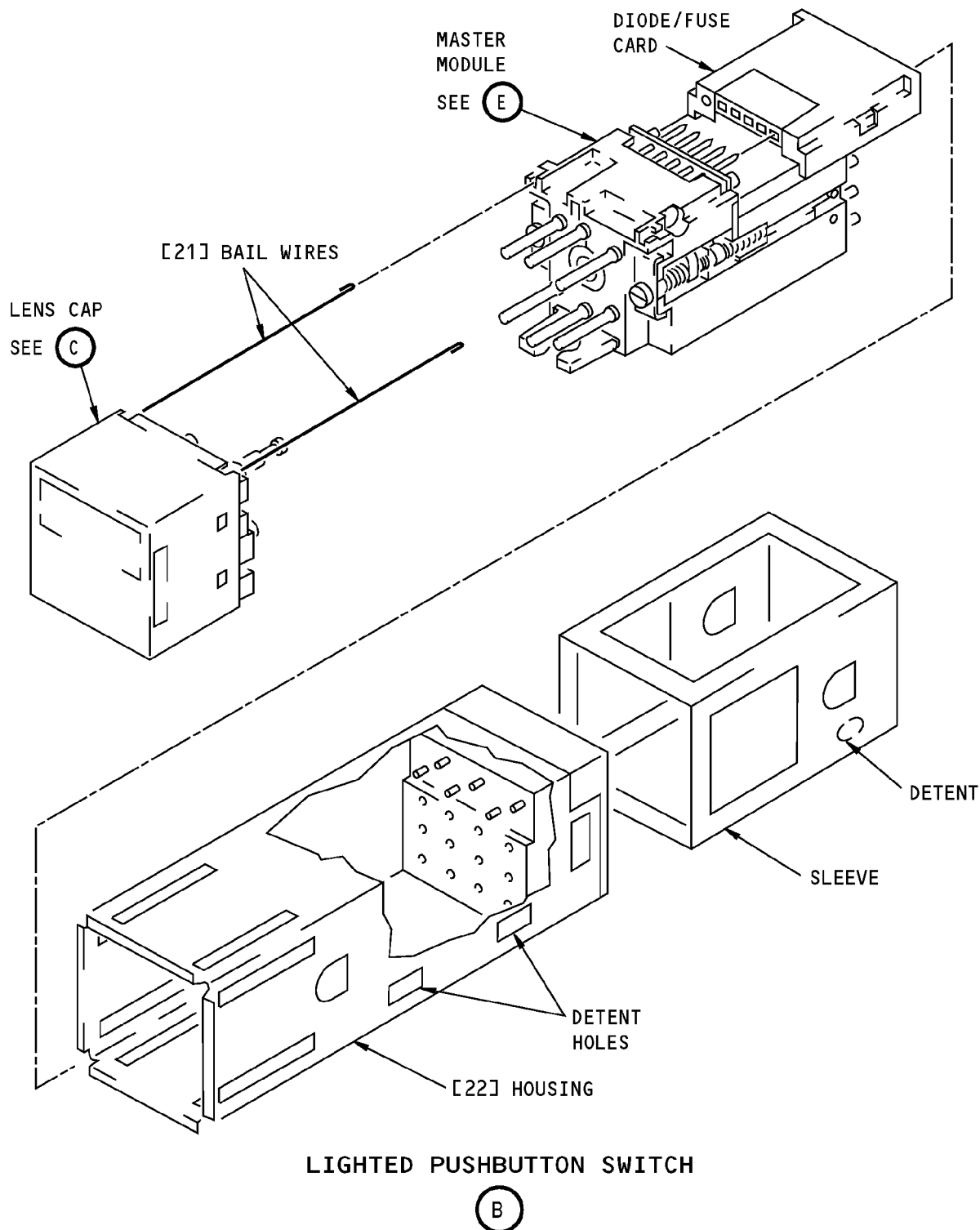
33-18-00

Page 209
Oct 10/2003

D633A101-HAP

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



Lighted Pushbutton Switch
Figure 202 (Sheet 2 of 3)/33-18-00-990-803

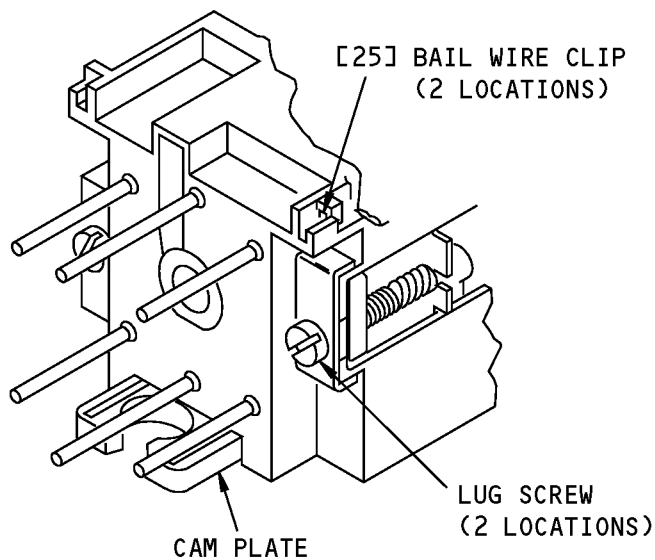
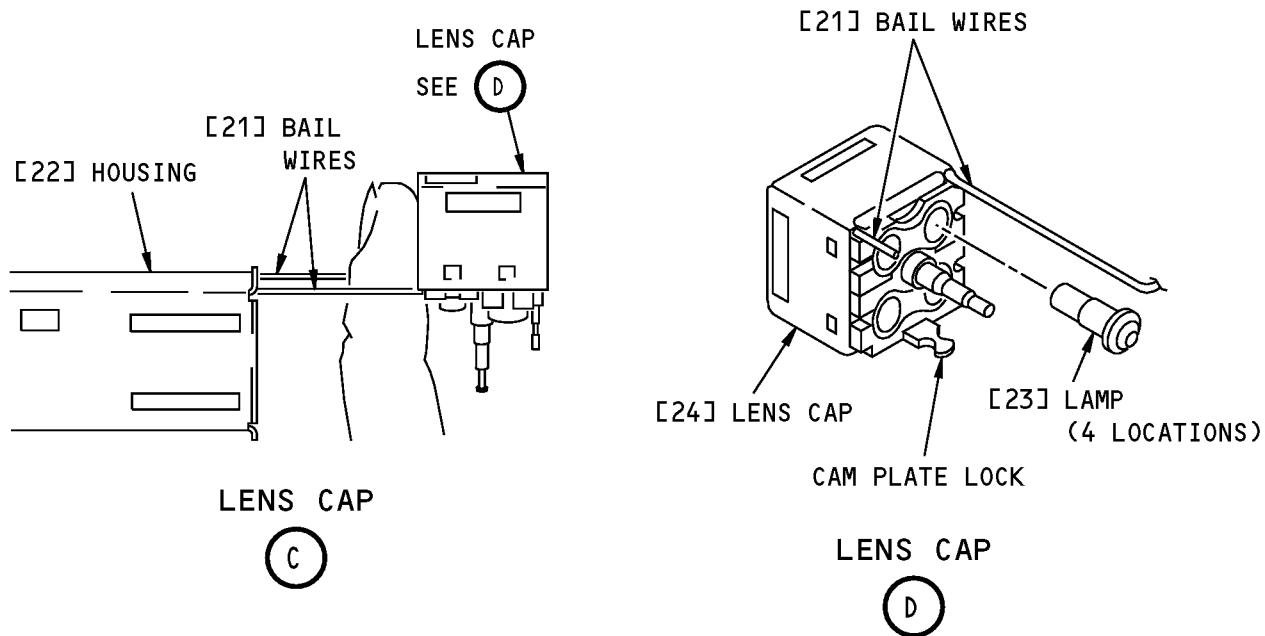
EFFECTIVITY
HAP ALL

33-18-00

Page 210
Oct 10/2003

D633A101-HAP

AIRCRAFT MAINTENANCE MANUAL



MASTER MODULE

(E)

Lighted Pushbutton Switch
Figure 202 (Sheet 3 of 3)/33-18-00-990-803

EFFECTIVITY
HAP ALL

33-18-00

Page 211
Oct 10/2003

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-18-00-960-804

5. Lightplate - Replacement

(Figure 203)

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 Standard Overhaul Practices Manual (SOPM), Chapter 20-11-05 or 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.

EFFECTIVITY
HAP ALL

D633A101-HAP

33-18-00

Page 212
Feb 10/2005



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

SUBTASK 33-18-00-860-010

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

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

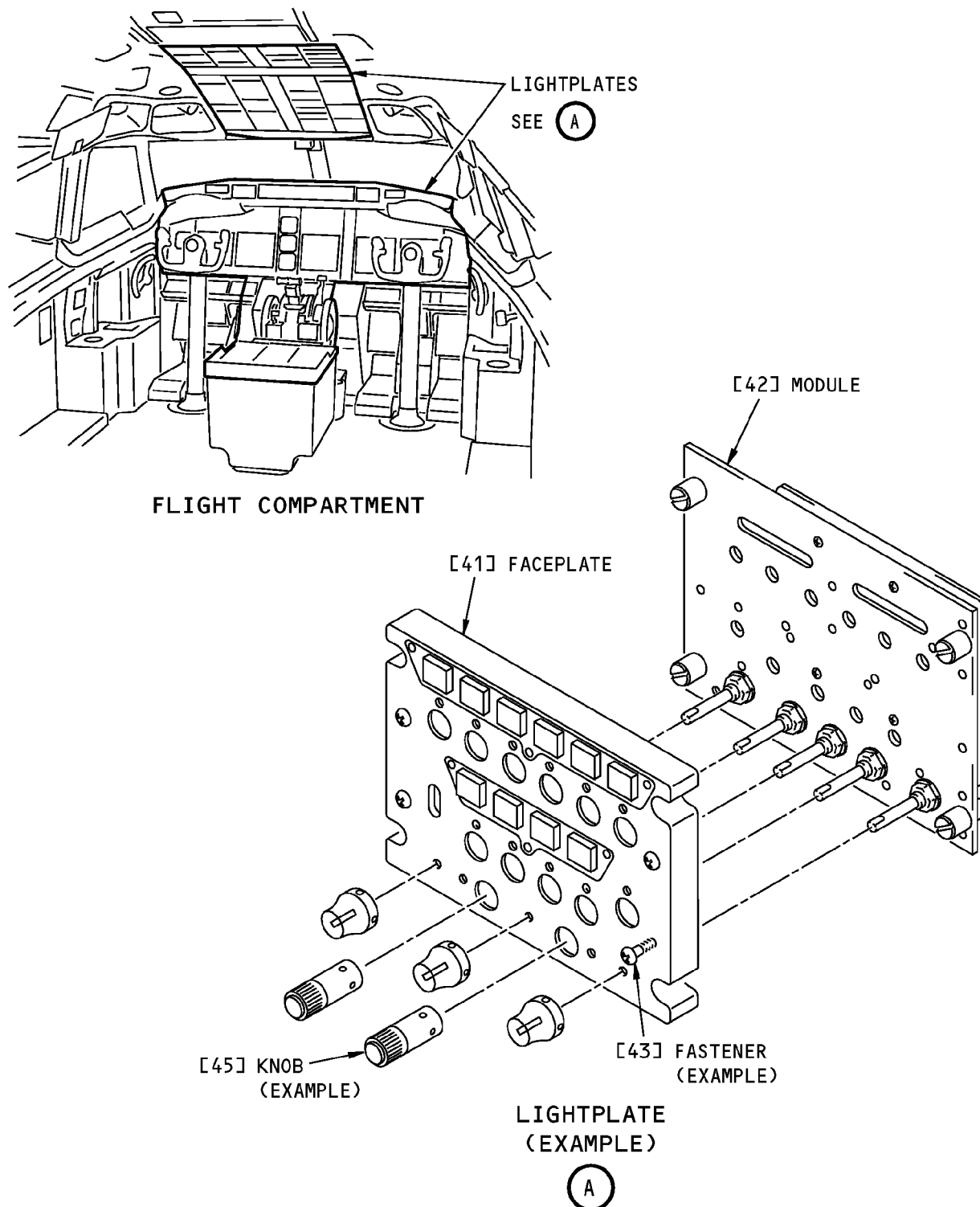
D633A101-HAP

33-18-00

Page 213
Oct 10/2003



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



Lightplate Replacement
Figure 203/33-18-00-990-804

EFFECTIVITY
HAP ALL

33-18-00

Page 214
Oct 10/2003

D633A101-HAP

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737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-18-00-960-805

6. Annunciator And Dimming Module - Module Replacement

(Figure 204)

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.

EFFECTIVITY
HAP ALL

D633A101-HAP

33-18-00

Page 215
Oct 10/2003



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

SUBTASK 33-18-00-860-017

(5) Close these access panels:

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

SUBTASK 33-18-00-860-018

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

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 33-18-00-710-007

(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
HAP ALL

D633A101-HAP

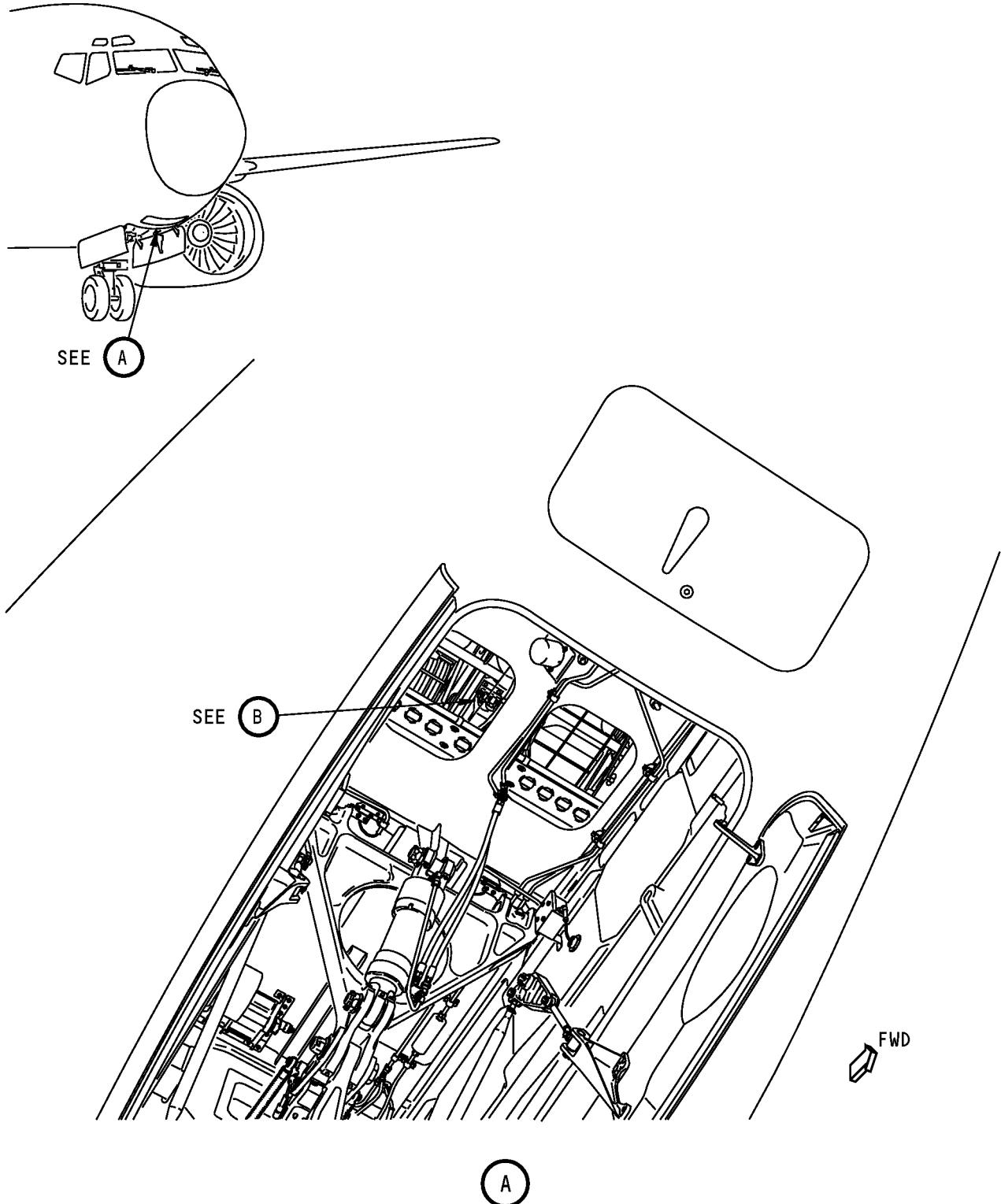
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33-18-00

Page 216
Oct 10/2003



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



Annunciation and Dimming Module, M469 - Removal and Installation
Figure 204 (Sheet 1 of 2)/33-18-00-990-805

EFFECTIVITY
HAP ALL

D633A101-HAP

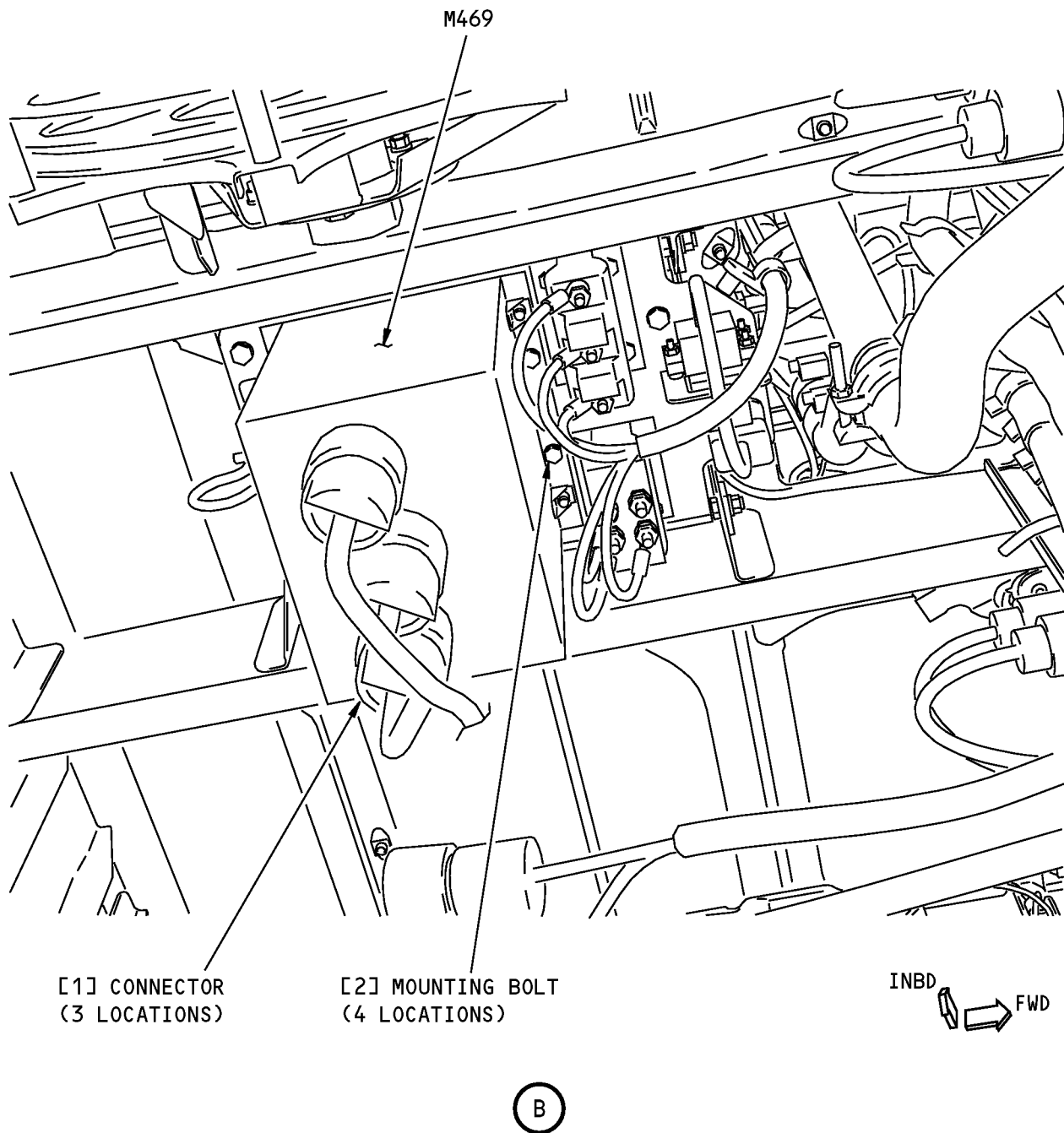
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33-18-00

Page 217
Oct 10/2003



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



Annunciation and Dimming Module, M469 - Removal and Installation
Figure 204 (Sheet 2 of 2)/33-18-00-990-805

EFFECTIVITY
HAP ALL

33-18-00

Page 218
Oct 10/2003

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-18-00-710-802

7. Master Dim and Test - Operational Test

(Figure 205)

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.

HAP 001-013, 015-026, 028-030

- (b) At the glareshield panel, P7, set the A/T switch to ON.

HAP ALL

- (c) At the control stand, P10, release the parking brake.
- (d) Open this circuit breaker and install safety tag:

F/O Electrical System Panel, P6-3

Row	Col	Number	Name
E	1	C00137	DOOR LOCK

EFFECTIVITY
HAP ALL

33-18-00

Page 219
Oct 15/2008

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

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

HAP 001-013, 015-026, 028-030

NOTE: The A/T light will be very dim.

HAP ALL

- 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:

EFFECTIVITY
HAP ALL

33-18-00

Page 220
Oct 15/2008

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (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:

- 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** —————

EFFECTIVITY
HAP ALL

D633A101-HAP

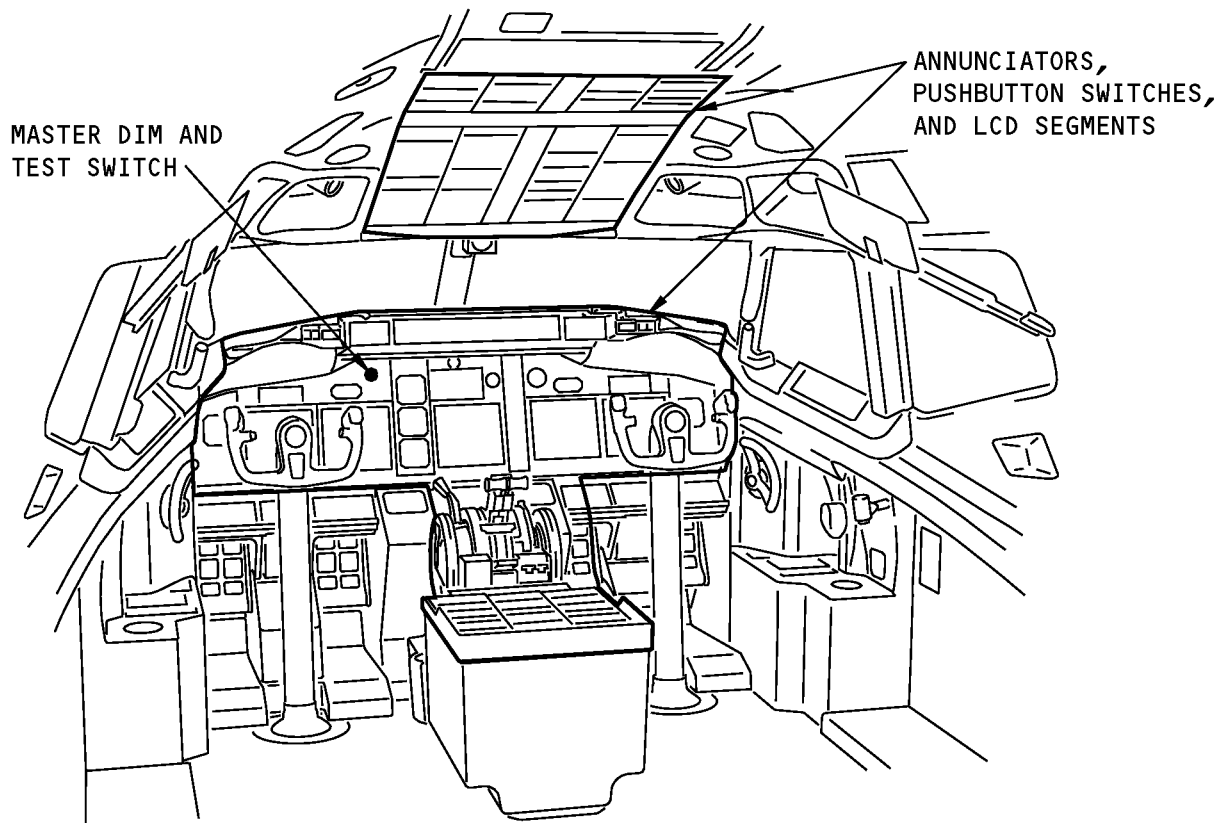
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33-18-00

Page 221
Oct 15/2008



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



FLIGHT COMPARTMENT

Master Dim and Test System Test
Figure 205/33-18-00-990-806

EFFECTIVITY
HAP ALL

D633A101-HAP

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33-18-00

Page 222
Oct 10/2003



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

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 33-20-00-710-801-001

2. Passenger Compartment Lights - Operational Test

- A. General
 - (1) This procedure includes operational tests of these components:
 - (a) Window lights
 - (b) Ceiling lights
 - (c) Night lights
 - (d) Reading lights
 - (e) Information signs
 - (f) Attendant work lights
 - (g) Galley lights
 - (h) Lavatory mirror lights
 - (i) Lavatory-occupied signs
 - (j) Passenger call lights
 - (k) Lavatory call lights
 - (l) Entry lights

B. References

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
29-11-00-860-801	Hydraulic System A or B Pressurization (P/B 201)
29-11-00-860-805	Hydraulic System A or B Power Removal (P/B 201)
32-00-01-480-801	Landing Gear Downlock Pins Installation (P/B 201)
SSM 33-26-11	System Schematics Manual
SSM 33-26-21	System Schematics Manual
SSM 33-26-31	System Schematics Manual
SSM 33-27-11	System Schematics Manual
SSM 33-29-11	System Schematics Manual

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Procedure

SUBTASK 33-20-00-860-001-001

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

SUBTASK 33-20-00-710-001-001

- (2) Do a test of the window lights (SSM 33-21-XX):

EFFECTIVITY
HAP ALL

D633A101-HAP

33-20-00

Config 1
Page 501
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (a) At each applicable attendant panel, set each switch for the window lights to the bright mode.
 - 1) Make sure the window lights come on brightly.
- (b) Set the switch to the dim mode.
 - 1) Make sure the lights become dim.
- (c) Set the switch to the off mode.
 - 1) Make sure the lights go off.
- (d) Set the switch to the usual mode.

SUBTASK 33-20-00-710-002-001

(3) Do a test of the ceiling lights (SSM 33-22-XX):

- (a) At each applicable attendant panel, set each switch for the ceiling lights to the bright mode.
 - 1) Make sure the ceiling lights come on brightly.
- (b) Set the switch to the medium mode.
 - 1) Make sure the lights become less bright.
- (c) Set the switch to the dim mode.
 - 1) Make sure the lights become dim.
- (d) Set the switch to the off mode.
 - 1) Make sure the lights go off.
- (e) Set the switch to the usual mode.

SUBTASK 33-20-00-710-004-001

(4) Do a test of the night lights (SSM 33-22-XX):

- (a) At each applicable attendant panel, set each switch for the night lights to the night mode.
 - 1) Make sure the night lights come on.
- (b) Set the switch to the off mode.
 - 1) Make sure the lights go off.
- (c) Set the switch to the usual mode.

SUBTASK 33-20-00-710-005-001

(5) Do a test of the reading lights (SSM 33-23-XX):

- (a) At each passenger seat, set the switch for the reading light to the on mode.
 - 1) Make sure the reading light comes on.
- (b) Set the switch to the off mode.
 - 1) Make sure the light goes off.
- (c) Set the switch to the usual mode.

HAP 001-013, 015-026, 028-030; AIRPLANES THAT USE THE NO-SMOKING SWITCH TO OPERATE THE NO-SMOKING SIGNS

SUBTASK 33-20-00-710-006-001

(6) Do this test of the information signs (SSM 33-25-XX):

- (a) Set the NO SMOKING and the FASTEN BELT switches on the overhead panel, P5, to ON.
 - 1) Make sure that these information signs are on:
 - a) NO SMOKING

EFFECTIVITY
HAP ALL

D633A101-HAP

33-20-00

Config 1
Page 502
Jun 10/2007



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

HAP 001-013, 015-026, 028-030; AIRPLANES THAT USE THE NO-SMOKING SWITCH TO OPERATE THE NO-SMOKING SIGNS (Continued)

- b) FASTEN SEAT BELT
- c) RETURN TO SEAT
- (b) Set the NO SMOKING and the FASTEN BELT switches 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.

- (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 NO SMOKING and the FASTEN BELT switches 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 these information signs are on:
 - a) FASTEN SEAT BELT
 - b) RETURN TO SEAT
- (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 down position.
 - 1) Make sure that 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 NO SMOKING and the FASTEN BELTS switches to OFF.
 - 1) Make sure that all the information signs stay off.
- (m) Move the Landing gear lever to the down position.
- (n) Set the NO SMOKING and the FASTEN BELTS switches 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.

EFFECTIVITY
HAP ALL

D633A101-HAP

33-20-00

Config 1
Page 503
Feb 15/2008



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

HAP 001-013, 015-026, 028-030; AIRPLANES THAT USE THE NO-SMOKING SWITCH TO OPERATE THE NO-SMOKING SIGNS (Continued)

HAP 031-054, 101-999; AIRPLANES WITH NO-SMOKING SIGNS PERMANENTLY ILLUMINATED

SUBTASK 33-20-00-710-007-001

- (7) Do a test of the information signs:

NOTE: The no-smoking switch on the P5 panel will not operate the signs. The switch will have a 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.

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 down 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.

EFFECTIVITY
HAP ALL

D633A101-HAP

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33-20-00

Config 1
Page 504
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

HAP 031-054, 101-999; AIRPLANES WITH NO-SMOKING SIGNS PERMANENTLY ILLUMINATED (Continued)

- (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 down 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.

HAP ALL

SUBTASK 33-20-00-710-008-001

- (8) Do a test of the attendant work lights (SSM 33-26-11):
 - (a) At the adjacent attendant panel, set the switch for each attendant work light to the on mode.
 - 1) Make sure the attendant work light comes on.
 - 2) Make sure the light in the switch comes on.
 - (b) Set the switch to the off mode.
 - 1) Make sure the attendant work light goes off.
 - 2) Make sure the light in the switch goes off.

SUBTASK 33-20-00-710-009-001

- (9) Do a test of the galley lights (SSM 33-26-21):
 - (a) Set the switch for the galley lights to the bright mode.
 - 1) Make sure the lights come on brightly.
 - (b) Set the switch to the dim mode.
 - 1) Make sure the lights become dim.
 - (c) Set the switch to the off mode.
 - 1) Make sure the lights go off.

SUBTASK 33-20-00-710-010-001

- (10) Do a test of the lavatory mirror lights (SSM 33-26-31):
 - (a) At each lavatory, open the lavatory door.
 - 1) Make sure the incandescent lamp is on.

NOTE: The incandescent lamp comes on when electrical power is supplied to the airplane.

HAP 031-054, 101-999

- 2) Make sure the fluorescent lamps are Off.

HAP 001-013, 015-026, 028-030

- 3) Make sure the fluorescent lamps are Dim.

HAP ALL

- (b) Go in the lavatory and lock the door.
 - 1) Make sure the fluorescent lamps come on brightly.
- (c) Unlock the door.

EFFECTIVITY
HAP ALL

D633A101-HAP

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33-20-00

Config 1
Page 505
Feb 15/2009



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

HAP 031-054, 101-999

- 1) Make sure the fluorescent lamps go to Off.

HAP 001-013, 015-026, 028-030

- 2) Make sure the fluorescent lamps go to Dim.

HAP ALL

- 3) Make sure the incandescent lamp stays on.
- (d) Leave the lavatory and close the lavatory door.

SUBTASK 33-20-00-710-011-001

- (11) Do a test of each lavatory-occupied sign:

NOTE: Use two people to do this part of the test.

- (a) Make sure lamps behind the lavatory symbol are on.

NOTE: The lamps come on when electrical power is supplied to the airplane.

- (b) Make sure the lamps behind the occupied symbol are off.
- (c) Go in the lavatory and lock the door.

- 1) Make sure the lamps behind the occupied symbol come on.

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

- 1) Make sure the lamps behind the occupied symbol go off.

- 2) Make sure the lamps behind the lavatory symbol stay on.

SUBTASK 33-20-00-860-002-001

- (12) Do a test of the passenger call lights (SSM 33-27-XX):

- (a) At each passenger service unit (PSU), set the call switch to the on mode.

- 1) Make sure the call light on the PSU comes on.

- 2) Make sure the blue call light in the exit sign near the door comes on.

NOTE: A call-select switch on the PSU lets you send the call signal to the forward or the aft exit sign.

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

- 1) Make sure the call light on the PSU goes off.

- 2) Make sure the blue call light in the exit sign near the door goes off.

SUBTASK 33-20-00-710-012-001

- (13) Do a test of the lavatory call light system (SSM 33-27-11):

- (a) Set the call switch in the lavatory to the on mode.

- 1) Make sure the light in the call switch comes on.

- 2) Make sure the call light/reset switch outside the lavatory comes on.

- 3) Make sure the amber call light in the exit sign near 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.

- 3) Make sure the amber call light on the exit sign near the lavatory goes off.

EFFECTIVITY
HAP ALL

D633A101-HAP

33-20-00

Config 1
Page 506
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 33-20-00-710-013-001

(14) Do a test of the forward entry lights (SSM 33-29-11):

- (a) At the forward entry panel, set the switch for the entry lights to the off mode.
- (b) At the pilots overhead panel, P5, set the BAT switch to the ON mode.
 - 1) Make sure the lights in the forward entry light assembly come on.
 - 2) Make sure the fluorescent lamps in the forward entry light assembly go off.
 - 3) Make sure the forward threshold light near the passenger entry door goes off.
- (c) Set the BAT switch to the usual mode.
- (d) In the passenger compartment at the forward entry panel, set the switch for the entry lights to the dim mode.
 - 1) Make sure the incandescent entry lights in the forward entry light assembly stay on.
 - 2) Make sure the fluorescent lamps in the forward entry light assembly come on dimly.
 - 3) Make sure the forward threshold light near the passenger entry door stays off.
- (e) At the forward entry panel, set the switch for the entry lights to the bright mode.
 - 1) Make sure the incandescent entry lights in the forward entry light assembly stay on.
 - 2) Make sure the fluorescent lamps in the forward entry light assembly come on brightly.
 - 3) Make sure the forward threshold light near the passenger entry door comes on.
- (f) At the forward entry panel, set the switch for the entry lights to the usual mode.

SUBTASK 33-20-00-710-016-001

(15) Do a test of the aft entry lights (SSM 33-29-11):

- (a) At the aft entry panel, set the switch for the entry lights to the off mode.
- (b) At the pilots overhead panel, P5, set the BAT switch to the ON mode.
 - 1) Make sure the light in the aft entry light assembly comes on.
 - 2) Make sure the fluorescent lamps in the aft entry light assembly go off.
- (c) Set the BAT switch to the usual mode.
- (d) In the passenger compartment at the aft entry panel, set the switch for the entry lights to the dim mode.
 - 1) Make sure the incandescent entry light in the aft entry light assembly stays on.
 - 2) Make sure the fluorescent lamps in the aft entry light assembly come on dimly.
- (e) At the aft entry panel, set the switch for the entry lights to the bright mode.
 - 1) Make sure the incandescent entry light in the aft entry light assembly stays on.
 - 2) Make sure the fluorescent lamps in the aft entry light assembly come on brightly.
- (f) At the aft entry panel, set the switch for the entry lights to the usual mode.

SUBTASK 33-20-00-860-003-001

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

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

D633A101-HAP

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33-20-00

Config 1
Page 507
Feb 15/2008



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

WINDOW LIGHTS - MAINTENANCE PRACTICES

1. General

A. This procedure has these tasks:

- (1) Window Light - Lamp Replacement
- (2) Window Light - Light Assembly Replacement
- (3) Window Light - Fuse Replacement

B. If there is a problem with the ballast, replace the light assembly.

TASK 33-21-00-960-801

2. Window 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)
SSM 33-21-11	System Schematics Manual
SSM 33-21-12	System Schematics Manual

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Procedure

SSM 33-21-11, SSM 33-21-12

SUBTASK 33-21-00-860-001

- (1) At the applicable attendant panel, set the switch for the window lights to the off mode and attach a DO-NOT-OPERATE tag.

SUBTASK 33-21-00-960-001

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 (SSM 33-21-11) (SSM 33-21-12):

(a) Remove the lens [3].

- 1) Remove the screw [4] and retainer plate [5] from each side of the lens.
- 2) Use a slim, flat tool along the inboard edge of the lens [3] to lift it away from the light housing.

(b) Replace the lamp [2].

(c) Install the lens [3].

- 1) Align the holes on each side of the lens [3] with the nutplates.
- 2) Push the lens [3] into its position.
- 3) Put one end of the lens in first then push the opposite end and along the edge of the lens in with your thumb.

NOTE: A lot of force is necessary to install the lens.

- 4) Install the screw [4] and retainer plate [5] on each side of the lens.

EFFECTIVITY
HAP ALL

33-21-00

Page 201
Feb 10/2007

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 33-21-00-860-002

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

SUBTASK 33-21-00-710-001

(4) Do a test of the new lamp:

(a) Set the applicable switch for the window lights to the bright mode.

1) Make sure 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 33-21-00-860-003

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

END OF TASK

EFFECTIVITY
HAP ALL

D633A101-HAP

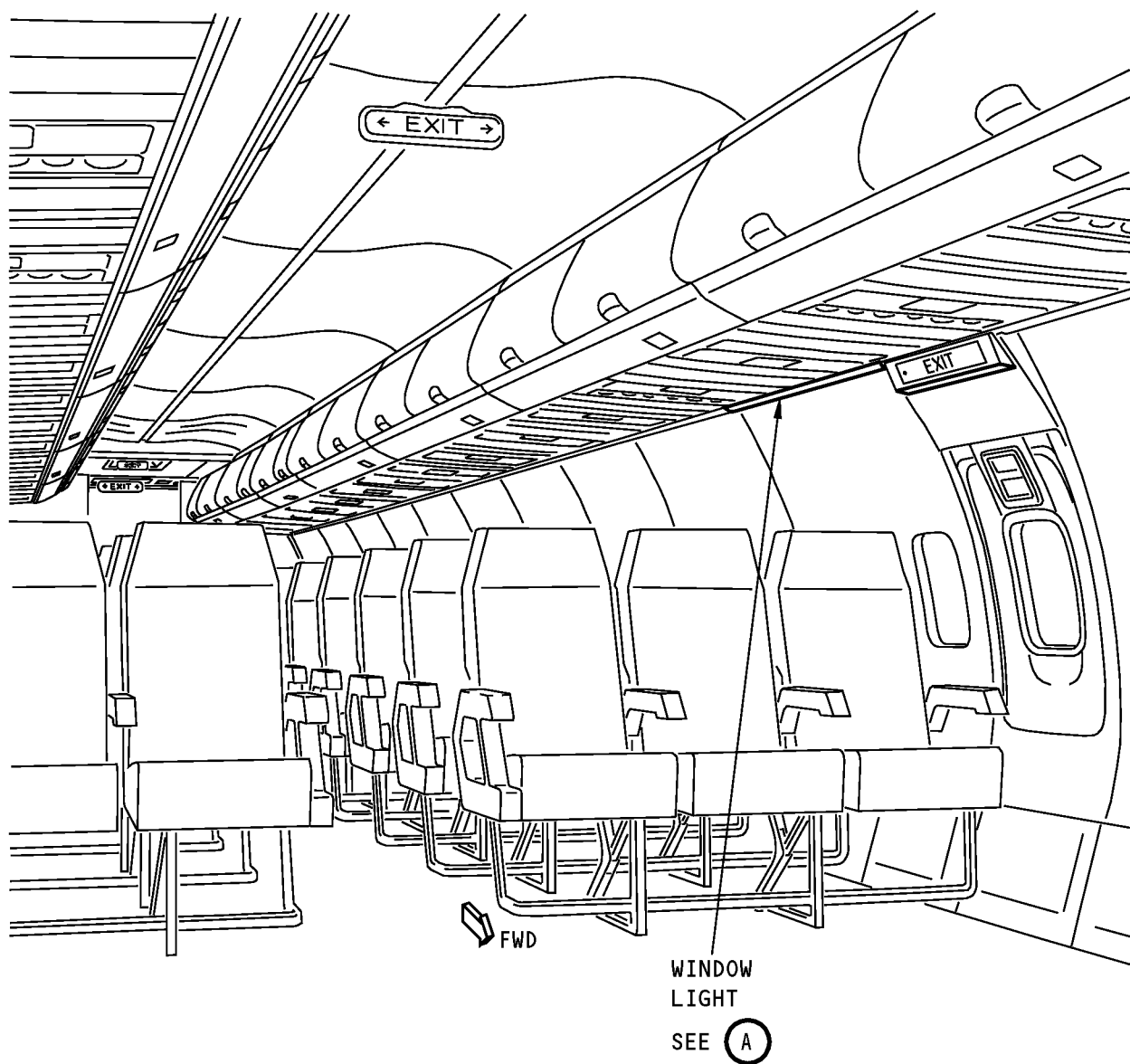
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33-21-00

Page 202
Feb 10/2007



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



PASSENGER COMPARTMENT

Window Light - Lamp Replacement
Figure 201 (Sheet 1 of 2)/33-21-00-990-801

EFFECTIVITY
HAP ALL

33-21-00

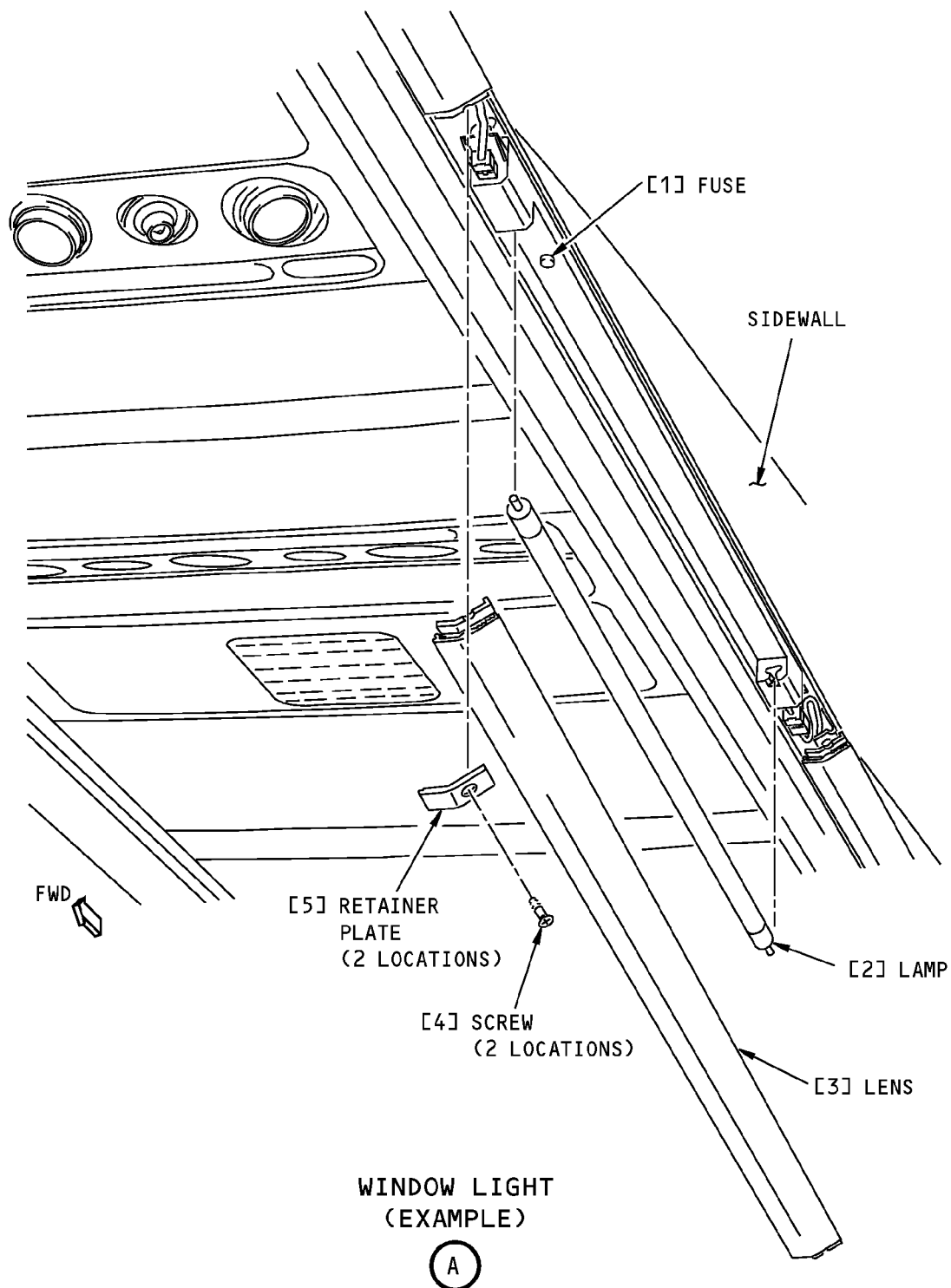
Page 203
Oct 10/2003

D633A101-HAP

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



Window Light - Lamp Replacement
Figure 201 (Sheet 2 of 2)/33-21-00-990-801

EFFECTIVITY
HAP ALL

33-21-00

Page 204
Oct 10/2003

D633A101-HAP

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737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-21-00-960-802

3. Window 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)
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)
SSM 33-21-11	System Schematics Manual
SSM 33-21-12	System Schematics Manual

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Procedure

SSM 33-21-11, SSM 33-21-12:

SUBTASK 33-21-00-960-005

(1) Do this task: Window Light - Fuse Replacement, TASK 33-21-00-960-803.

(a) If the new fuse corrects the problem, stop here. Do not replace the light assembly.

SUBTASK 33-21-00-860-004

(2) 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

(SSM 33-21-11) (SSM 33-21-12)

HAP ALL; AIRPLANES WITH SIDEWALL LIGHT NOT AT AN EMERGENCY EXIT DOORWAY

SUBTASK 33-21-00-960-003

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

(a) Remove the lens [3].

1) Remove the screw [4] and retainer plate [5] from each end of the lens.

2) Use a slim, flat tool along the inboard edge of the lens [3] to lift it away from the light housing.

(b) Remove the lamp [2].

(c) Disconnect the electrical connector [22] from each end of the light assembly.

NOTE: One electrical connector is behind the adjacent lens.

1) To disconnect the electrical connector behind the adjacent lens, do these steps:

a) Remove the screw and retainer plate from one end of the lens.

NOTE: It is not necessary to fully remove the lens. Remove only the end for access to the electrical connector.

EFFECTIVITY
HAP ALL

33-21-00

Page 205
Jun 10/2005

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

HAP ALL; AIRPLANES WITH SIDEWALL LIGHT NOT AT AN EMERGENCY EXIT DOORWAY (Continued)

- b) Use a slim, flat tool along the inboard edge of the lens to lift the end away from the light housing.
- c) Disconnect the electrical connector.
- (d) Remove the screws [23] and washers [24] [25] that hold the light assembly in its position.
- (e) Replace the light assembly [21].
- (f) Install the screws [23] and washers [24] [25] that hold the light assembly in its position.
- (g) Connect the electrical connectors [22] to the new light assembly.

NOTE: On some airplanes, a case ground wire is installed on pin 5 of the electrical connector, reference 737-SL-33-042.

- (h) Install the lamp [2].
- (i) Install the lens [3].
 - 1) Align the holes on each side of the lens [3] with the nutplates.
 - 2) Push the lens [3] into its position.
 - 3) Put one end of the lens in first then push the opposite end and along the edge of the lens in with your thumb.

NOTE: A lot of force is necessary to install the lens.

- 4) Install the screw [4] and retainer plate [5] on each side of the lens.

HAP ALL; AIRPLANES WITH SIDEWALL LIGHT AT AN EMERGENCY EXIT DOORWAY

SUBTASK 33-21-00-960-004

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

- (a) Do this task: Emergency Exit Doorway Lining Removal, TASK 25-21-20-000-801.

NOTE: Do only the steps necessary for access to the sidewall light assembly installed on the back of the upper lining assembly.

- (b) Remove the screws that hold the light assembly to the upper lining assembly.
- (c) Replace the light assembly.

NOTE: On some airplanes, a case ground wire is installed on pin 5 of the electrical connector, reference 737-SL-33-042.

- 1) Make sure a new lamp is installed in the new light assembly.
- (d) Install the screws that hold the light assembly to the upper lining assembly.
- (e) Do this task: Emergency Exit Doorway Lining Installation, TASK 25-21-20-400-801.
 - 1) Make sure the electrical wires are reconnected.

HAP ALL

SUBTASK 33-21-00-860-005

- (5) 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

EFFECTIVITY
HAP ALL

33-21-00

Page 206
Feb 10/2007

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 33-21-00-860-006

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

SUBTASK 33-21-00-710-002

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

- (a) At the applicable attendant panel, set the switch for the window lights 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 33-21-00-860-007

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

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

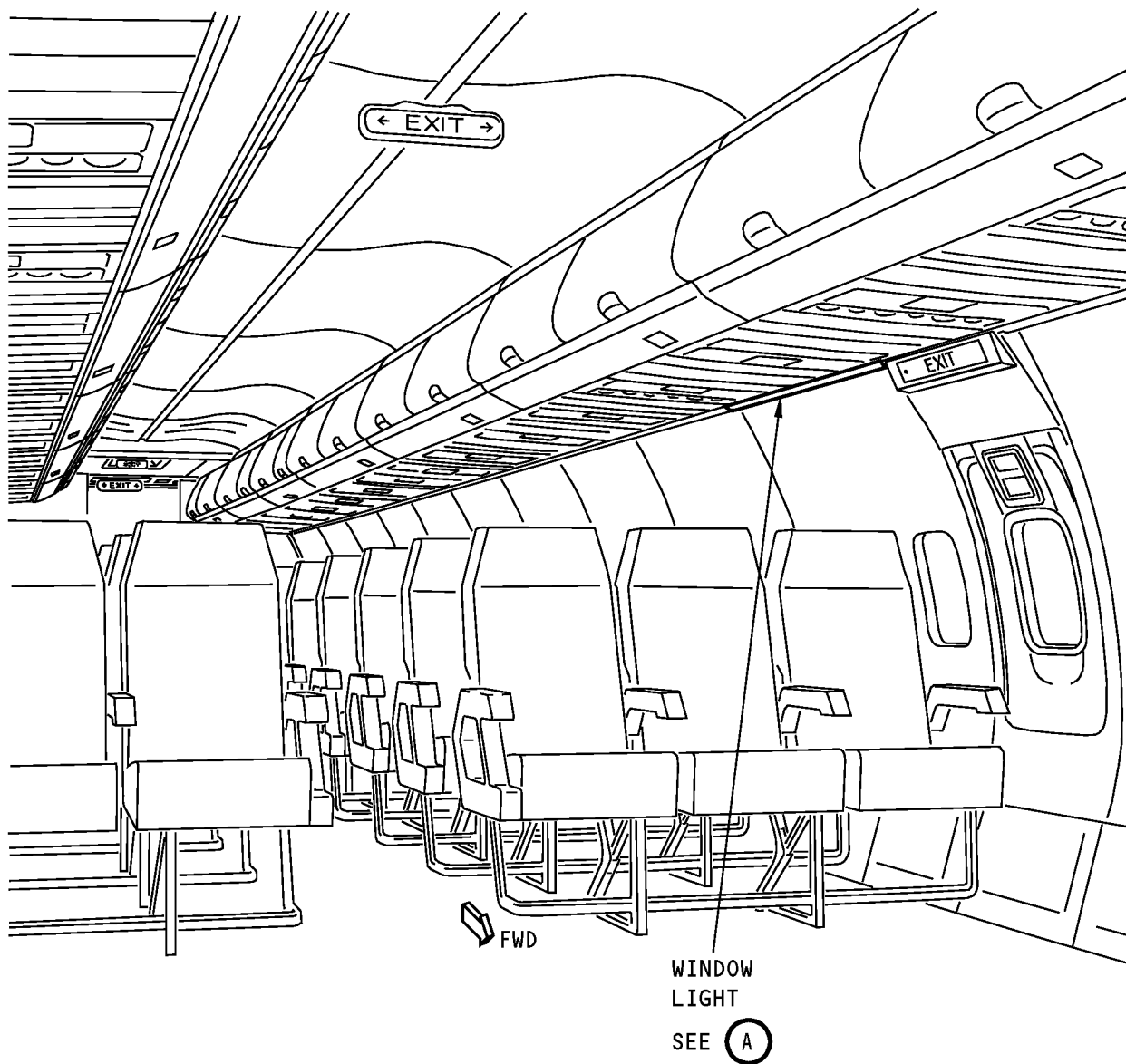
D633A101-HAP

33-21-00

Page 207
Feb 10/2007



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



PASSENGER COMPARTMENT

Window Light - Light Assembly Replacement
Figure 202 (Sheet 1 of 2)/33-21-00-990-802

EFFECTIVITY
HAP ALL

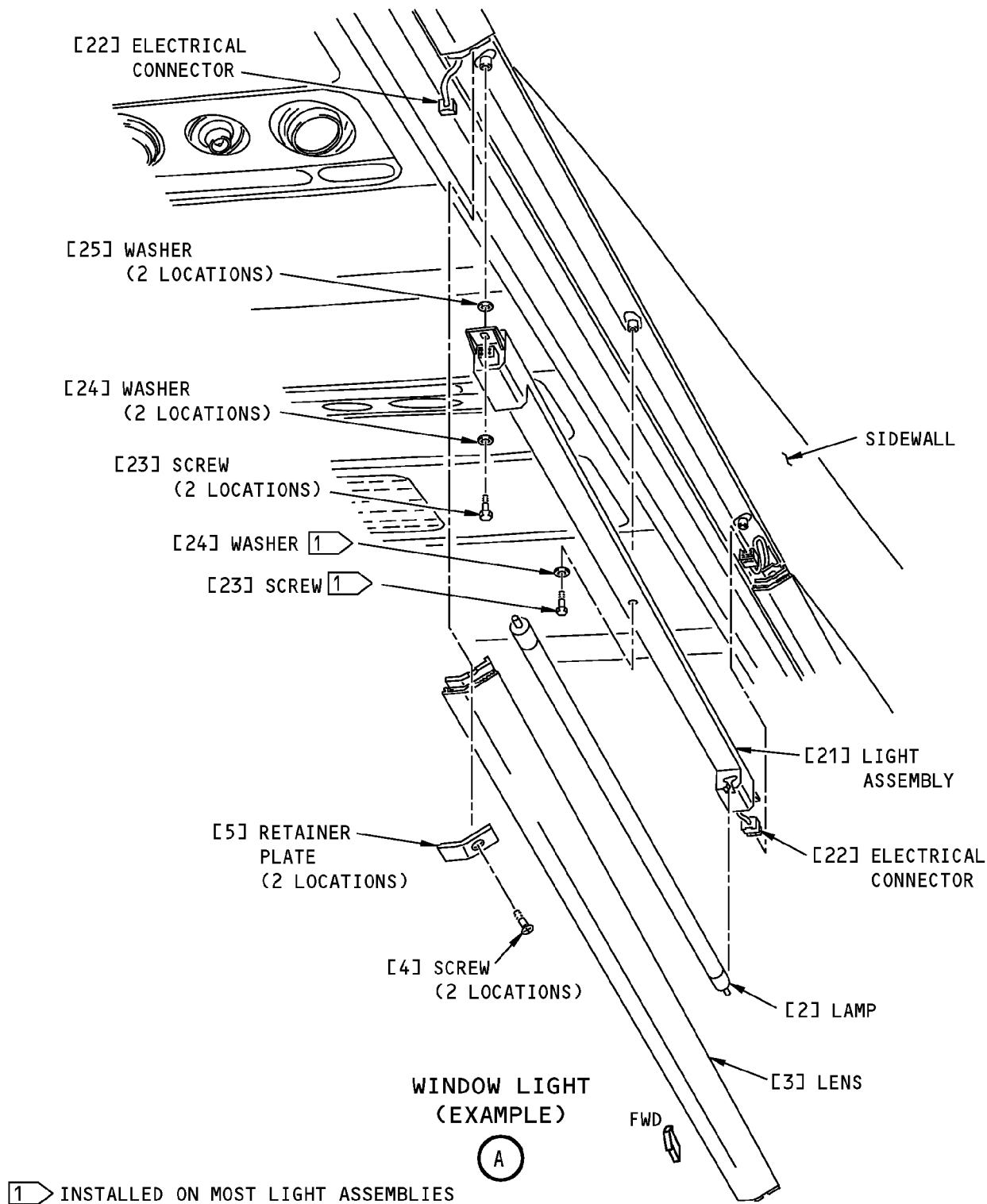
33-21-00

Page 208
Oct 10/2003

D633A101-HAP

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AIRCRAFT MAINTENANCE MANUAL



Window Light - Light Assembly Replacement
Figure 202 (Sheet 2 of 2)/33-21-00-990-802

EFFECTIVITY
HAP ALL

33-21-00

Page 209
Oct 10/2003

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-21-00-960-803

4. Window Light - Fuse 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)
SSM 33-21-11	System Schematics Manual
SSM 33-21-12	System Schematics Manual

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Procedure

SSM 33-21-11, SSM 33-21-12:

SUBTASK 33-21-00-860-008

- (1) At the applicable attendant panel, set the switch for the window lights to the off mode and attach the DO-NOT-OPERATE tag.

SUBTASK 33-21-00-960-006

WARNING: DO NOT TOUCH THE LAMP SOCKETS AND THE METAL ENDS OF THE LAMP AND FUSE. WHEN ELECTRICAL POWER IS SUPPLIED TO THE LIGHT, ELECTRICAL SHOCK CAN OCCUR.

- (2) Do these steps to replace the fuse (SSM 33-21-11) (SSM 33-21-12):
 - (a) Remove the lamp [2] (Window Light - Lamp Replacement, TASK 33-21-00-960-801).
 - (b) Check and replace the fuse [1] if it is unserviceable.
 - (c) Install the lamp [2] (Window Light - Lamp Replacement, TASK 33-21-00-960-801).

SUBTASK 33-21-00-860-009

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

SUBTASK 33-21-00-710-003

- (4) Do a test of the new fuse:
 - (a) Set the applicable switch for the window lights 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 33-21-00-860-010

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

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

33-21-00

Page 210
Jun 10/2005

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

CEILING LIGHTS - MAINTENANCE PRACTICES

1. General

A. This procedure has these tasks:

- (1) Ceiling Light, Recessed - Lamp Replacement
- (2) Ceiling Light, Bin - Lamp Replacement
- (3) Ceiling Light, Night - Lamp Replacement
- (4) Ceiling Light, Recessed - Light Assembly Replacement
- (5) Ceiling Light, Bin - Light Assembly Replacement
- (6) Ceiling Light, Bin - Fuse Replacement

B. If there is a problem with the ballast, replace the light assembly.

TASK 33-22-00-960-801

2. Ceiling Light, Recessed - 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)
25-21-71-000-804	Horseshoe Panel Removal (P/B 401)
25-21-71-400-804	Horseshoe Panel Installation (P/B 401)
SSM 33-22-11	System Schematics Manual
SSM 33-22-12	System Schematics Manual

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Procedure

SUBTASK 33-22-00-860-001

- (1) At the forward attendant panel, set the switch for the ceiling lights to the off mode and attach the DO-NOT-OPERATE tag.

SUBTASK 33-22-00-960-001

WARNING: DO NOT TOUCH THE SOCKETS OR THE METAL ENDS OF THE LAMP. WHEN ELECTRICAL POWER IS SUPPLIED TO THE LIGHT, ELECTRICAL SHOCK CAN OCCUR.

- (2) Do these steps to replace the lamp (SSM 33-22-11) (SSM 33-22-12):

- (a) Lower the recessed ceiling panel.

NOTE: This panel is part of the horseshoe panel (Horseshoe Panel Removal, TASK 25-21-71-000-804).

- (b) Replace the lamp [1].

- (c) Close the recessed ceiling panel (Horseshoe Panel Installation, TASK 25-21-71-400-804).

SUBTASK 33-22-00-860-002

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

EFFECTIVITY
HAP ALL

D633A101-HAP

33-22-00

Page 201
Feb 10/2004



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

SUBTASK 33-22-00-710-001

- (4) Do a test of the new lamp:
- (a) Set the switch for the ceiling lights to the bright mode.
 - 1) Make sure the lamp comes on brightly.
 - (b) Set the switch to the usual mode.

SUBTASK 33-22-00-860-003

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

————— **END OF TASK** —————

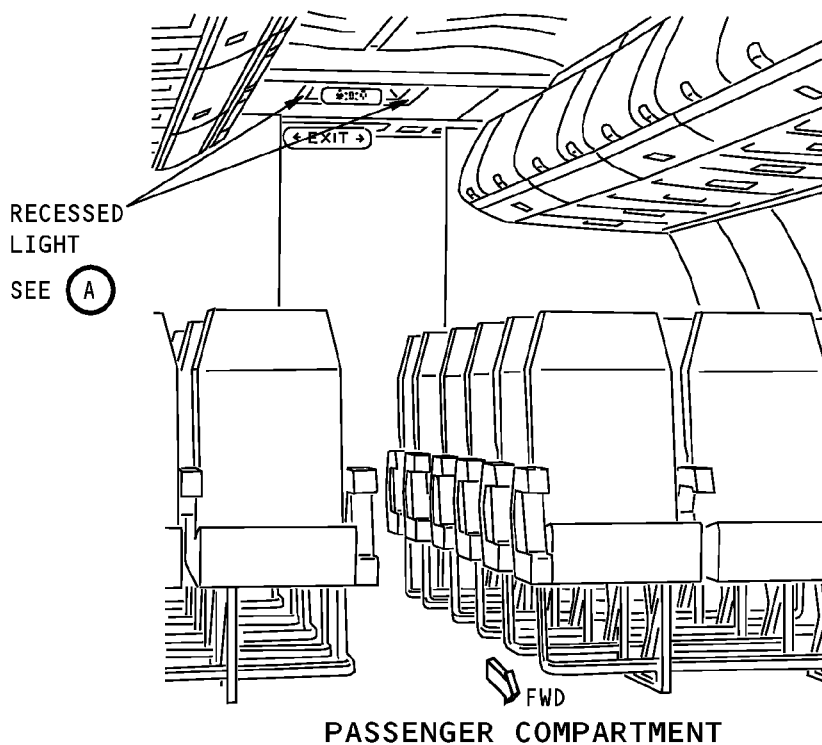
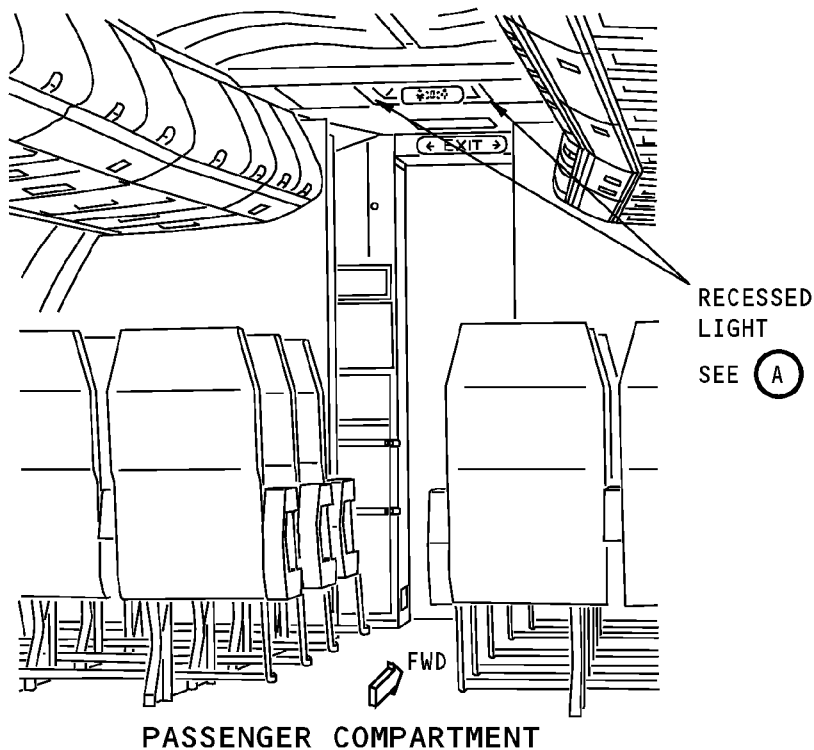
EFFECTIVITY
HAP ALL

D633A101-HAP

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33-22-00

Page 202
Oct 10/2003



Ceiling Light, Recessed - Lamp Replacement
Figure 201 (Sheet 1 of 2)/33-22-00-990-801

EFFECTIVITY
HAP ALL

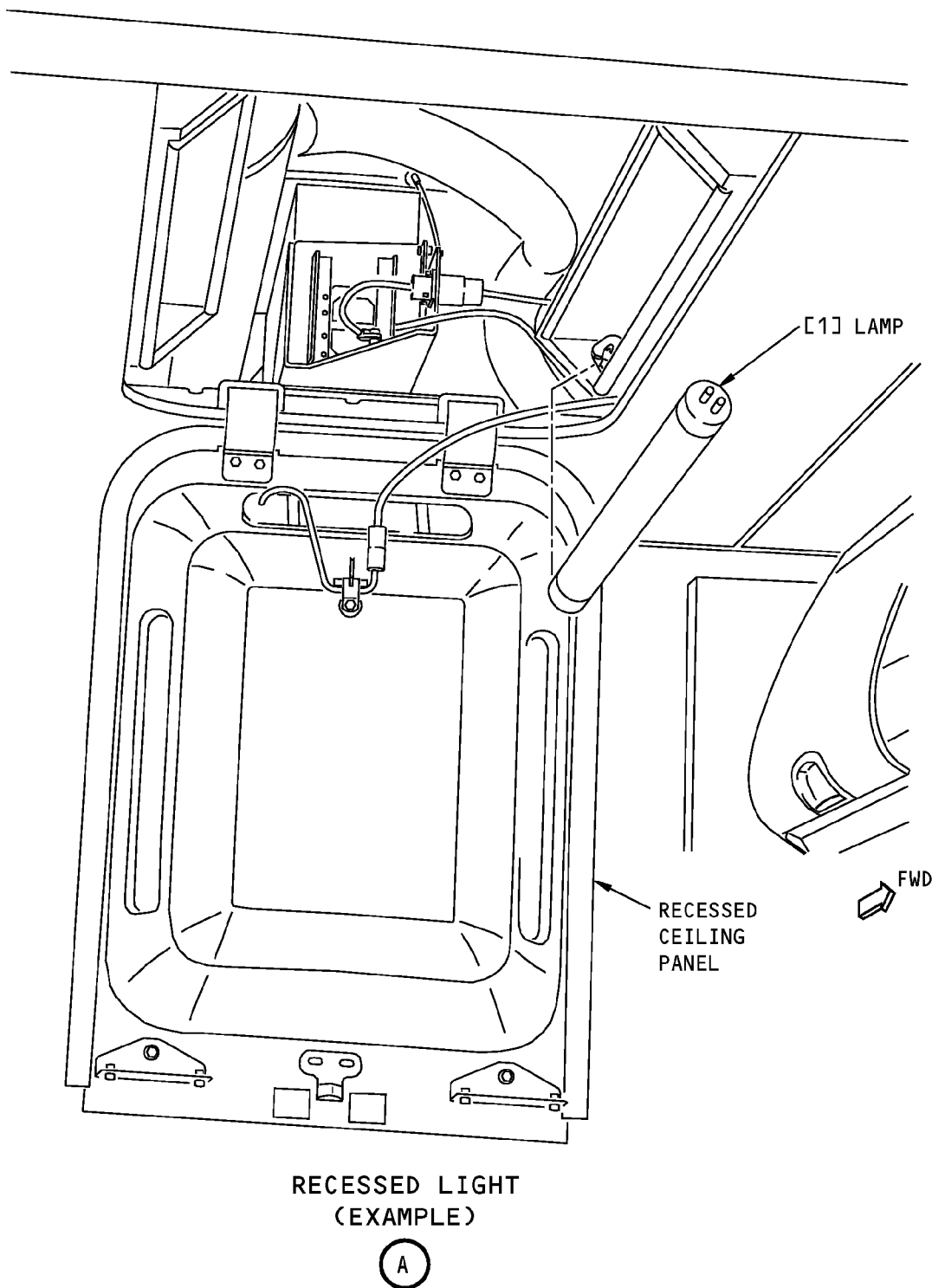
33-22-00

Page 203
Oct 10/2003

D633A101-HAP



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



Ceiling Light, Recessed - Lamp Replacement
Figure 201 (Sheet 2 of 2)/33-22-00-990-801

EFFECTIVITY
HAP ALL

33-22-00

Page 204
Oct 10/2003

D633A101-HAP

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737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-22-00-960-802

3. Ceiling Light, Bin - 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)
SSM 33-22-11	System Schematics Manual
SSM 33-22-12	System Schematics Manual

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Procedure

SUBTASK 33-22-00-860-004

CAUTION: DO NOT REPLACE THE LAMP UNTIL ELECTRICAL POWER IS REMOVED FROM THE CIRCUIT. IF YOU DO NOT REMOVE ELECTRICAL POWER, YOU CAN CAUSE DAMAGE TO THE FUSE IN THE LIGHT ASSEMBLY.

- (1) At the forward attendant panel, set the switch for the ceiling lights to the off mode and attach the DO-NOT-OPERATE tag.

SUBTASK 33-22-00-960-002

WARNING: DO NOT TOUCH THE SOCKETS OR THE METAL ENDS OF THE LAMP. WHEN ELECTRICAL POWER IS SUPPLIED TO THE LIGHT, ELECTRICAL SHOCK CAN OCCUR.

- (2) Do these steps to replace the lamp (SSM 33-22-11) (SSM 33-22-12):

- (a) Reach over the light shield for access to the lamp.

NOTE: Do not remove the light shield.

- (b) Lift the plastic cover away from the lamp.

NOTE: The plastic cover is attached on the inboard side of the light assembly with Velcro.

- (c) Remove the lamp [21].

NOTE: Some fluorescent lamps are 70 inches long. Be careful when you replace them.

- (d) Install the new lamp [21].

- (e) Attach the plastic cover.

SUBTASK 33-22-00-860-005

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

SUBTASK 33-22-00-710-002

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

- (a) Set the switch for the ceiling lights to the bright mode.

- 1) Make sure the light comes on brightly.

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

EFFECTIVITY
HAP ALL

33-22-00

Page 205
Feb 10/2004

D633A101-HAP



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

SUBTASK 33-22-00-860-006

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

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

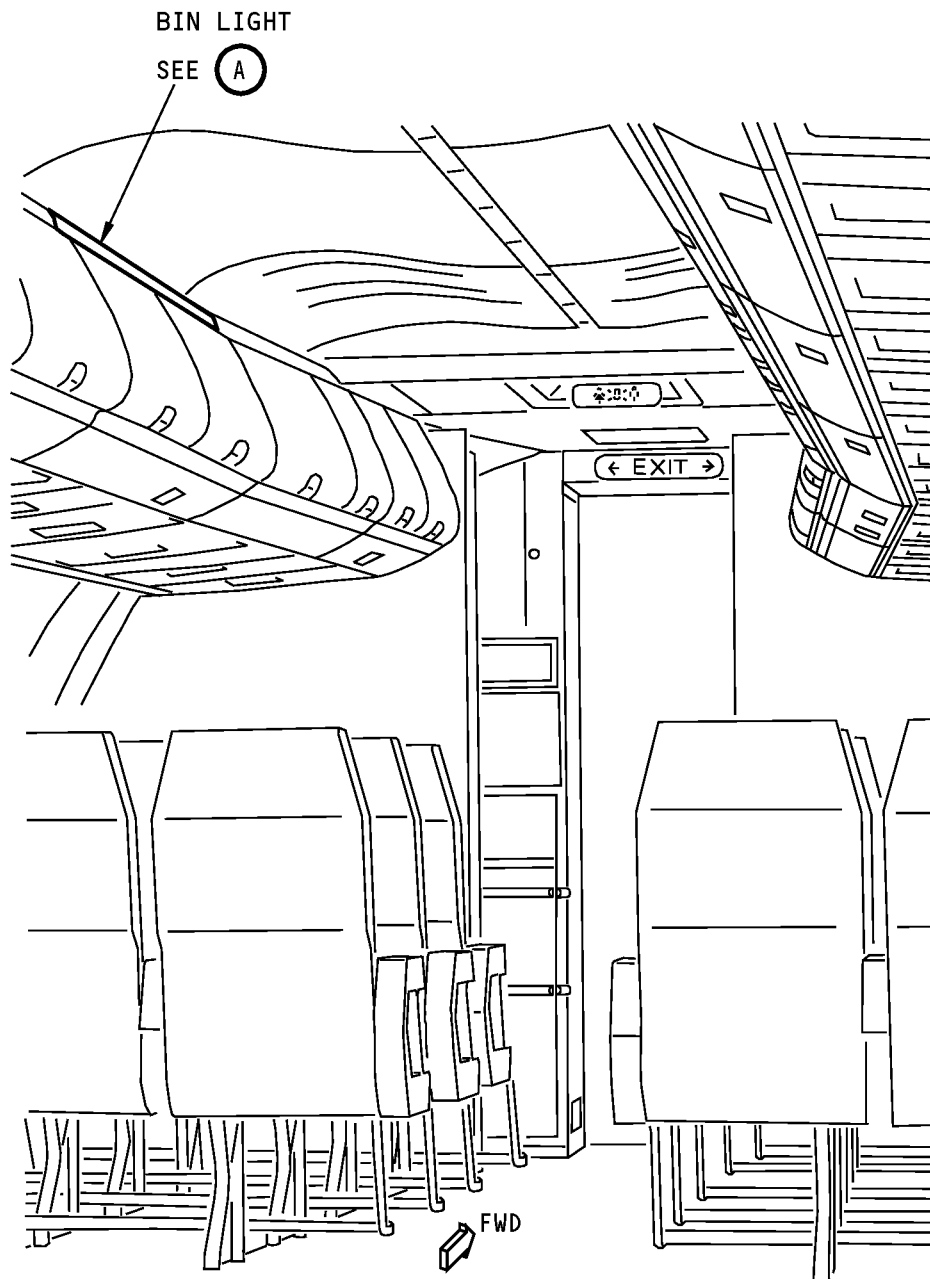
D633A101-HAP

33-22-00

Page 206
Oct 10/2003



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



PASSENGER COMPARTMENT

Ceiling Light, Bin - Lamp Replacement
Figure 202 (Sheet 1 of 2)/33-22-00-990-802

EFFECTIVITY
HAP ALL

33-22-00

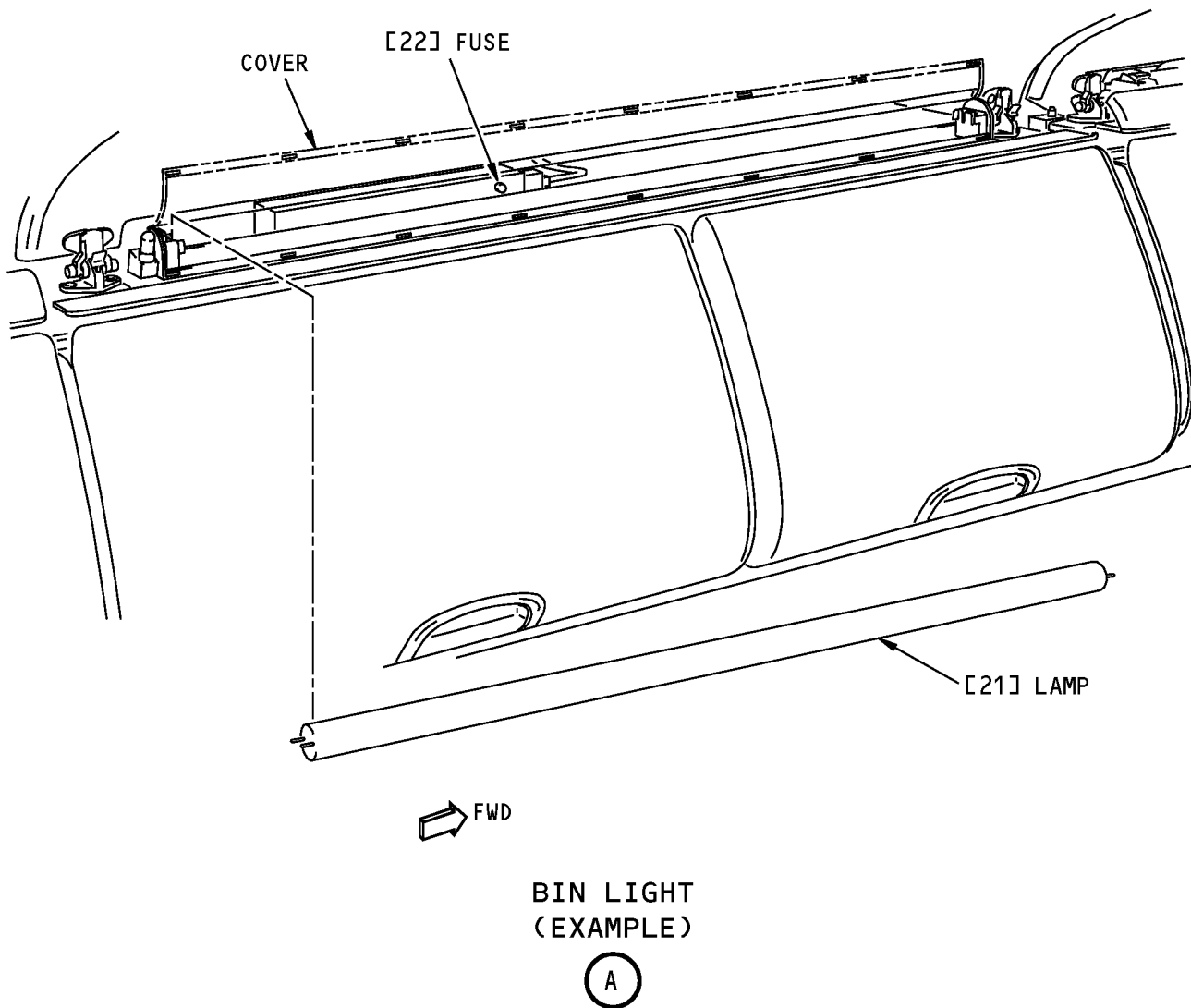
Page 207
Oct 10/2003

D633A101-HAP

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



NOTE: LIGHTSHIELD IS NOT SHOWN FOR CLARITY.

Ceiling Light, Bin - Lamp Replacement
Figure 202 (Sheet 2 of 2)/33-22-00-990-802

EFFECTIVITY
HAP ALL

D633A101-HAP

33-22-00

Page 208
Oct 10/2003



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-22-00-960-803

4. Ceiling Light, Night - 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)
SSM 33-22-11	System Schematics Manual
SSM 33-22-12	System Schematics Manual

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Procedure

SUBTASK 33-22-00-860-007

- (1) At the forward attendant panel, set the switch for the ceiling lights to the off mode and attach the DO-NOT-OPERATE tag.

SUBTASK 33-22-00-960-003

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 (SSM 33-22-11) (SSM 33-22-12):

- (a) Reach over the light shield for access to the lamp.

NOTE: Do not remove the light shield.

- (b) Replace the incandescent lamp [41] attached to the end of the bin light assembly.

SUBTASK 33-22-00-860-008

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

SUBTASK 33-22-00-710-003

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

- (a) Set the switch for the ceiling lights to the night mode.

- 1) Make sure the new lamp comes on.

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

SUBTASK 33-22-00-860-009

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

END OF TASK

EFFECTIVITY
HAP ALL

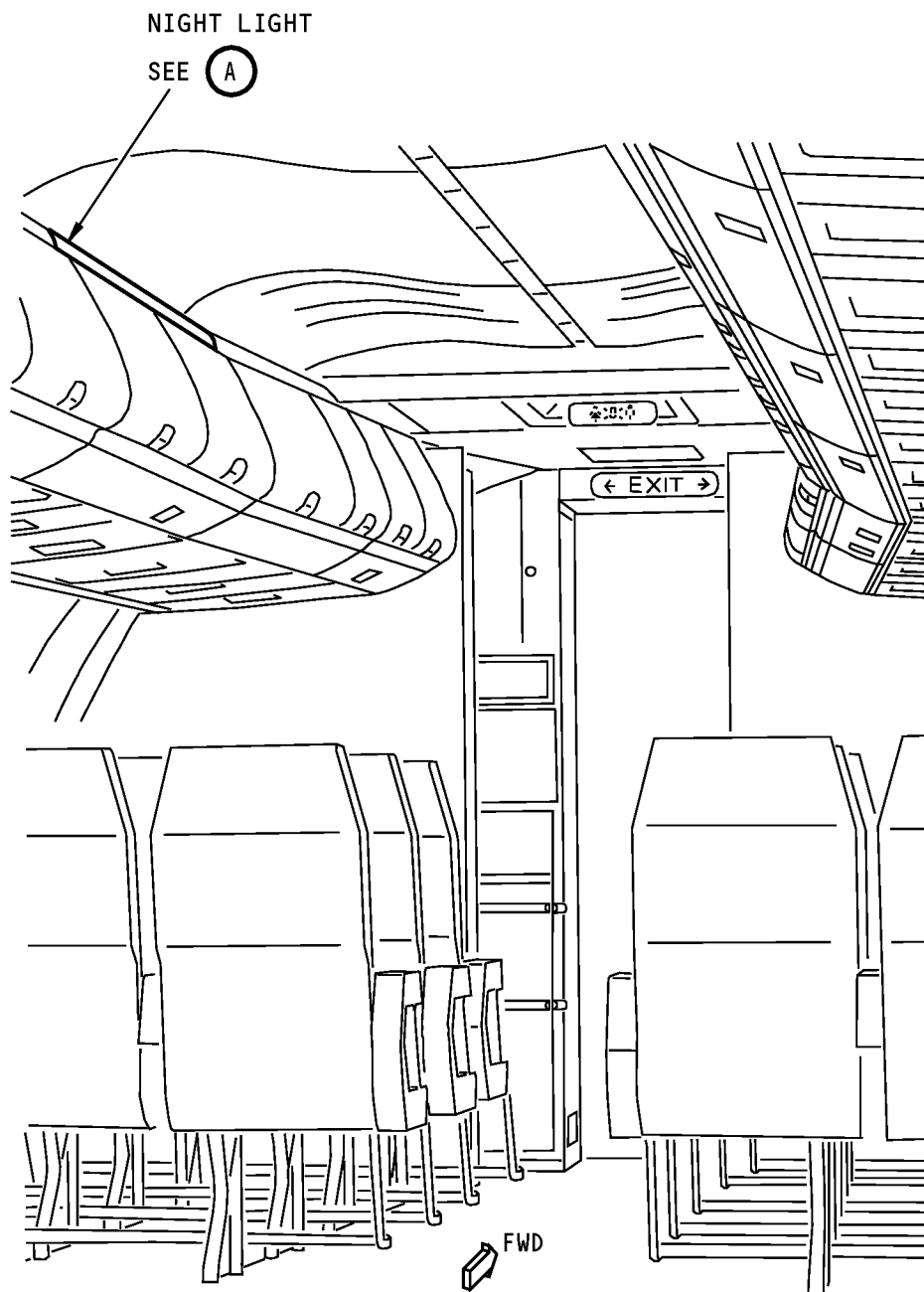
33-22-00

Page 209
Feb 10/2004

D633A101-HAP



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



PASSENGER COMPARTMENT

Ceiling Light, Night - Lamp Replacement
Figure 203 (Sheet 1 of 2)/33-22-00-990-803

EFFECTIVITY
HAP ALL

33-22-00

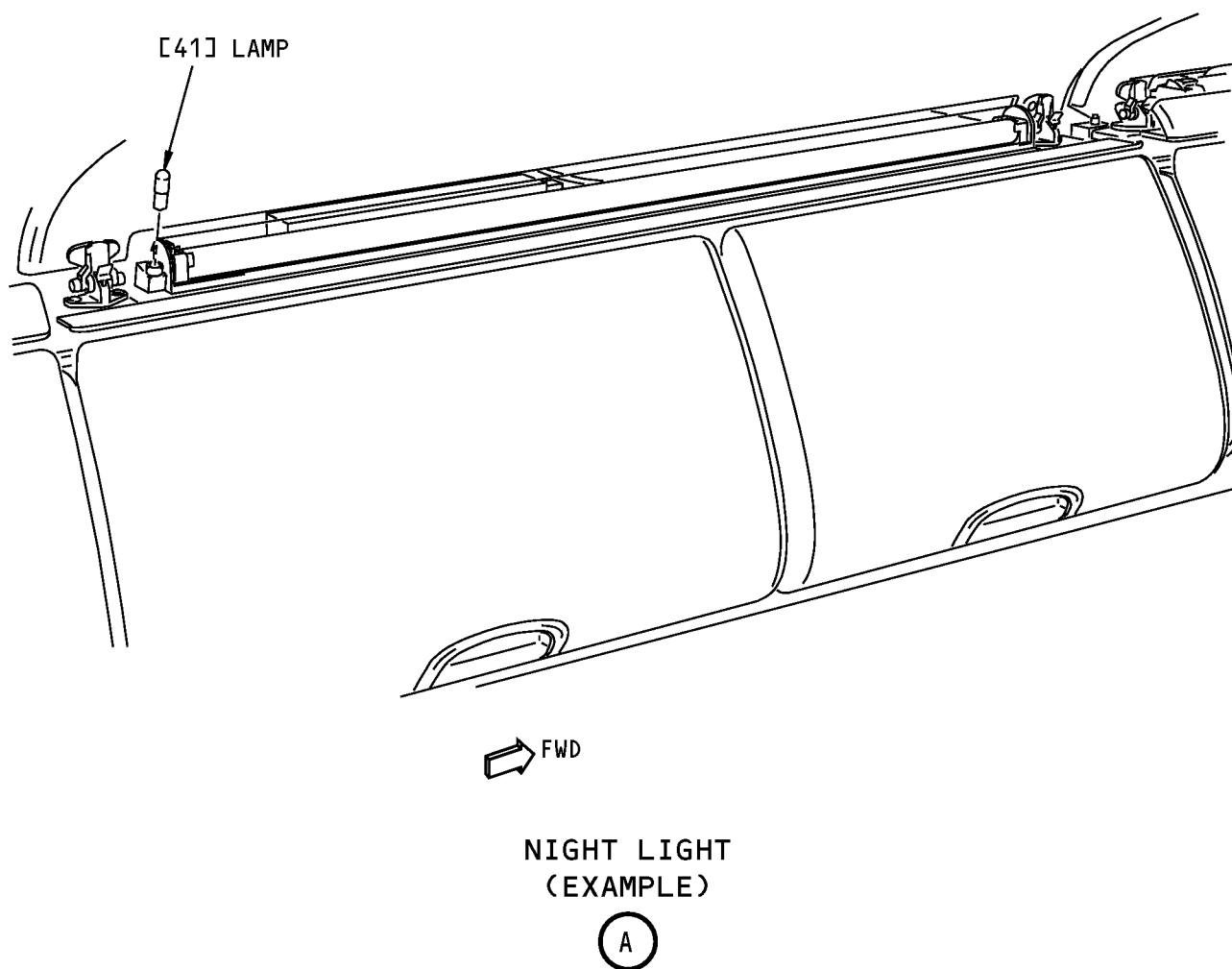
Page 210
Oct 10/2003

D633A101-HAP

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



NOTE: LIGHTSHIELD IS NOT SHOWN FOR CLARITY.

Ceiling Light, Night - Lamp Replacement
Figure 203 (Sheet 2 of 2)/33-22-00-990-803

EFFECTIVITY
HAP ALL

D633A101-HAP

33-22-00

Page 211
Oct 10/2003



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-22-00-960-804

5. Ceiling Light, Recessed - Light Assembly 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)
25-21-71-000-804	Horseshoe Panel Removal (P/B 401)
25-21-71-400-804	Horseshoe Panel Installation (P/B 401)
SSM 33-22-11	System Schematics Manual
SSM 33-22-12	System Schematics Manual

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Procedure

SUBTASK 33-22-00-860-010

- (1) Open the applicable circuit breaker for the ceiling light and install safety tags:

Power Distribution Panel Number 1, P91

Row	Col	Number	Name
HAP 001-013, 015-026, 028-036			
D	11	C00590	CEILING LT-R
D	12	C00591	CEILING LT-L
HAP 037-054, 101-999			
E	9	C00590	CEILING LT-R
E	10	C00591	CEILING LT-L

HAP ALL

(SSM 33-22-11) (SSM 33-22-12):

SUBTASK 33-22-00-960-004

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

NOTE: When you replace the light assembly, do not discard it. Refer to vendor instructions for possible repairs.

- (a) Lower the recessed ceiling panel.

NOTE: This panel is part of the horseshoe panel (Horseshoe Panel Removal, TASK 25-21-71-000-804).

- (b) Disconnect the electrical connector [64].
- (c) Remove the screws [63] and washers [62] that hold the light assembly in its position.
- (d) Replace the light assembly [61].
- (e) Install the screws [63] and washers [62].
- (f) Connect the electrical connector [64] to the new light assembly.
- (g) Install the lamp [1].
- (h) Close the recessed ceiling panel (Horseshoe Panel Installation, TASK 25-21-71-400-804).

EFFECTIVITY
HAP ALL

33-22-00

Page 212
Feb 15/2009

D633A101-HAP



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

SUBTASK 33-22-00-860-011

- (3) Remove the safety tags and close the applicable circuit breaker for the ceiling light:

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
HAP 001-013, 015-026, 028-036			
D	11	C00590	CEILING LT-R
D	12	C00591	CEILING LT-L
HAP 037-054, 101-999			
E	9	C00590	CEILING LT-R
E	10	C00591	CEILING LT-L

HAP ALL

SUBTASK 33-22-00-860-012

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

SUBTASK 33-22-00-710-004

- (5) Do a test of the new light assembly:
- (a) At the forward attendant panel, set the switch for the ceiling lights to the bright mode.
 - 1) Make sure the light comes on brightly.
 - (b) Set the switch to the usual mode.

SUBTASK 33-22-00-860-013

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

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

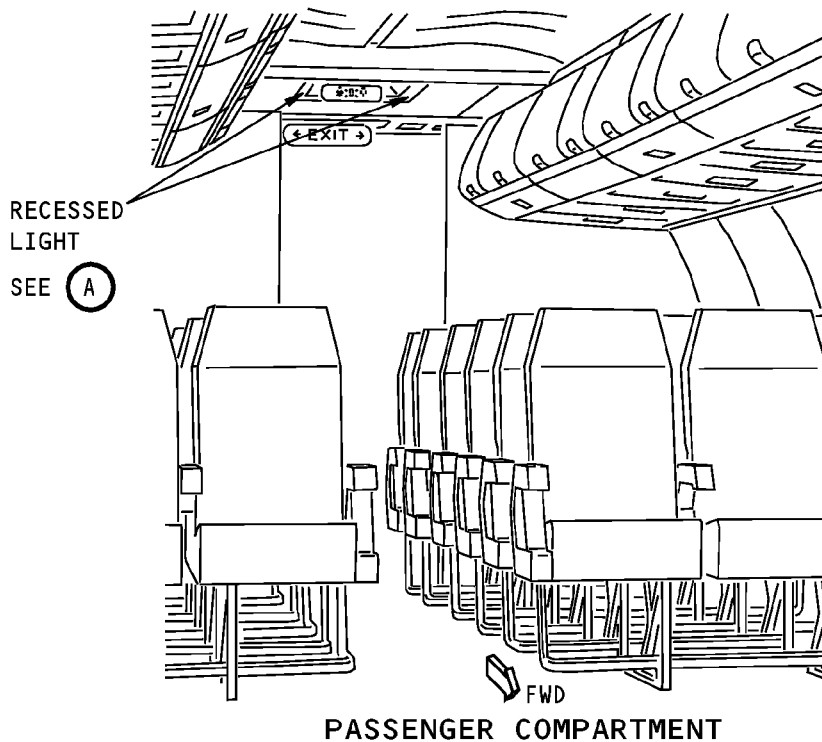
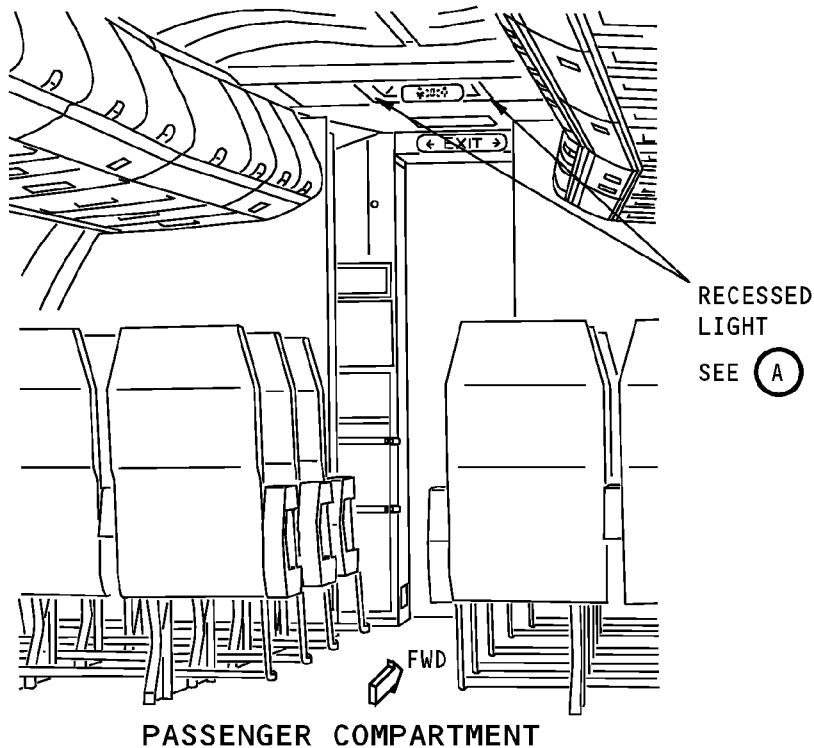
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33-22-00

Page 213
Feb 15/2009

AIRCRAFT MAINTENANCE MANUAL



Ceiling Light, Recessed - Light Assembly Replacement
Figure 204 (Sheet 1 of 2)/33-22-00-990-804

EFFECTIVITY
HAP ALL

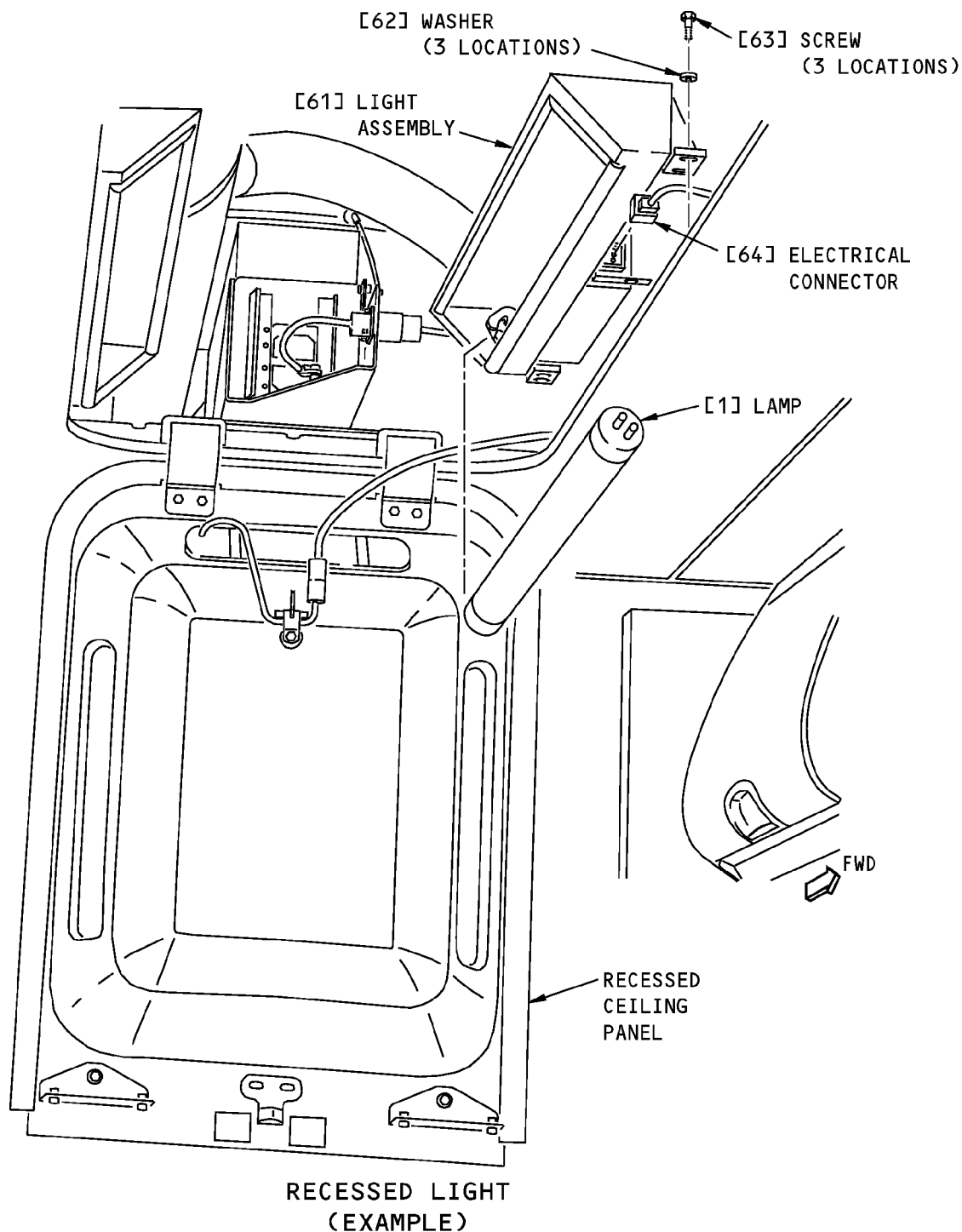
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33-22-00

Page 214
Oct 10/2003

AIRCRAFT MAINTENANCE MANUAL



A

Ceiling Light, Recessed - Light Assembly Replacement
Figure 204 (Sheet 2 of 2)/33-22-00-990-804

EFFECTIVITY
HAP ALL

33-22-00

Page 215
Oct 10/2003

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-22-00-960-805

6. Ceiling Light, Bin - 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)
SSM 33-22-11	System Schematics Manual
SSM 33-22-12	System Schematics Manual

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Procedure

SUBTASK 33-22-00-960-006

(1) Do this task: Ceiling Light, Bin - Fuse Replacement, TASK 33-22-00-960-806.

(a) If the new fuse corrects the problem, stop here. Do not replace the light assembly.

SUBTASK 33-22-00-860-014

CAUTION: DO NOT REPLACE THE LIGHT ASSEMBLY UNTIL ELECTRICAL POWER IS REMOVED FROM THE CIRCUIT. IF YOU DO NOT REMOVE ELECTRICAL POWER, YOU CAN CAUSE DAMAGE TO THE FUSE IN THE LIGHT ASSEMBLY.

(2) Open the applicable circuit breaker for the ceiling light and install the safety tag:

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
HAP 001-013, 015-026, 028-036			
D	11	C00590	CEILING LT-R
D	12	C00591	CEILING LT-L
HAP 037-054, 101-999			
E	9	C00590	CEILING LT-R
E	10	C00591	CEILING LT-L

HAP ALL

(SSM 33-22-11) (SSM 33-22-12)

SUBTASK 33-22-00-010-001

(3) Open the applicable stowage bin doors for access to the screws below the light assembly.

SUBTASK 33-22-00-010-002

(4) If a hinge prevents access to the screws, loosen the hinge from the top of the stowage bin:

NOTE: Do not loosen the hinge from the stowage bin door.

(a) Reach over the light shield and remove the inboard bolt.

(b) Reach behind the hinge and remove the outboard bolt.

EFFECTIVITY
HAP ALL

33-22-00

Page 216
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 33-22-00-960-005

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

NOTE: When you replace the light assembly, do not discard it. Refer to vendor instructions for possible repairs.

- (a) Remove the screws [84] below the light assembly.
- (b) Reach over the light shield for access to the light assembly.

NOTE: Do not remove the light shield.

- (c) Disconnect the electrical connector [82].
- (d) Remove the light assembly [81].
- (e) Install the new light assembly [81].
 - 1) Make sure the lamp is installed (Ceiling Light, Bin - Lamp Replacement, TASK 33-22-00-960-802).
- (f) Connect the electrical connector [82] to the new light assembly.
- (g) Install the screws [84].

SUBTASK 33-22-00-410-001

- (6) If a hinge was loosened, install it:

- (a) Reach behind the hinge and install the outboard bolt.
- (b) Reach over the light shield and install the inboard bolt.

SUBTASK 33-22-00-410-002

- (7) Close the stowage bin doors.

SUBTASK 33-22-00-860-015

- (8) Close the applicable circuit breaker for the ceiling light and remove the safety tag:

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
HAP 001-013, 015-026, 028-036			
D	11	C00590	CEILING LT-R
D	12	C00591	CEILING LT-L
HAP 037-054, 101-999			
E	9	C00590	CEILING LT-R
E	10	C00591	CEILING LT-L

HAP ALL

SUBTASK 33-22-00-860-016

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

SUBTASK 33-22-00-710-005

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

- (a) At the forward attendant panel, set the switch for the ceiling lights to the bright mode.
 - 1) Make sure the light comes on brightly.
- (b) Set the switch to the usual mode.

SUBTASK 33-22-00-860-017

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

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

33-22-00

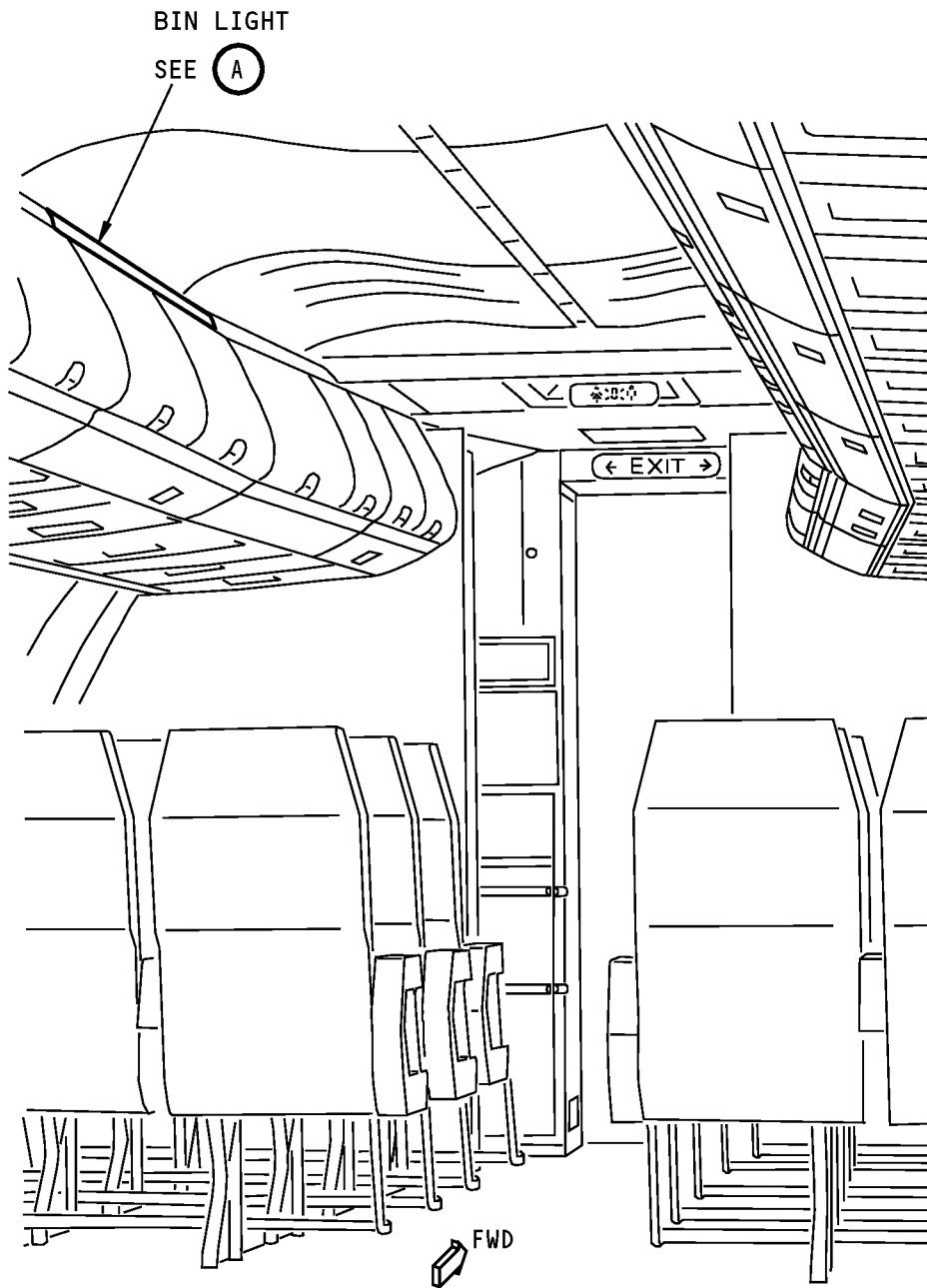
Page 217
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL



PASSENGER COMPARTMENT

Ceiling Light, Bin - Light Assembly Replacement
Figure 205 (Sheet 1 of 2)/33-22-00-990-805

EFFECTIVITY
HAP ALL

33-22-00

Page 218
Oct 10/2003

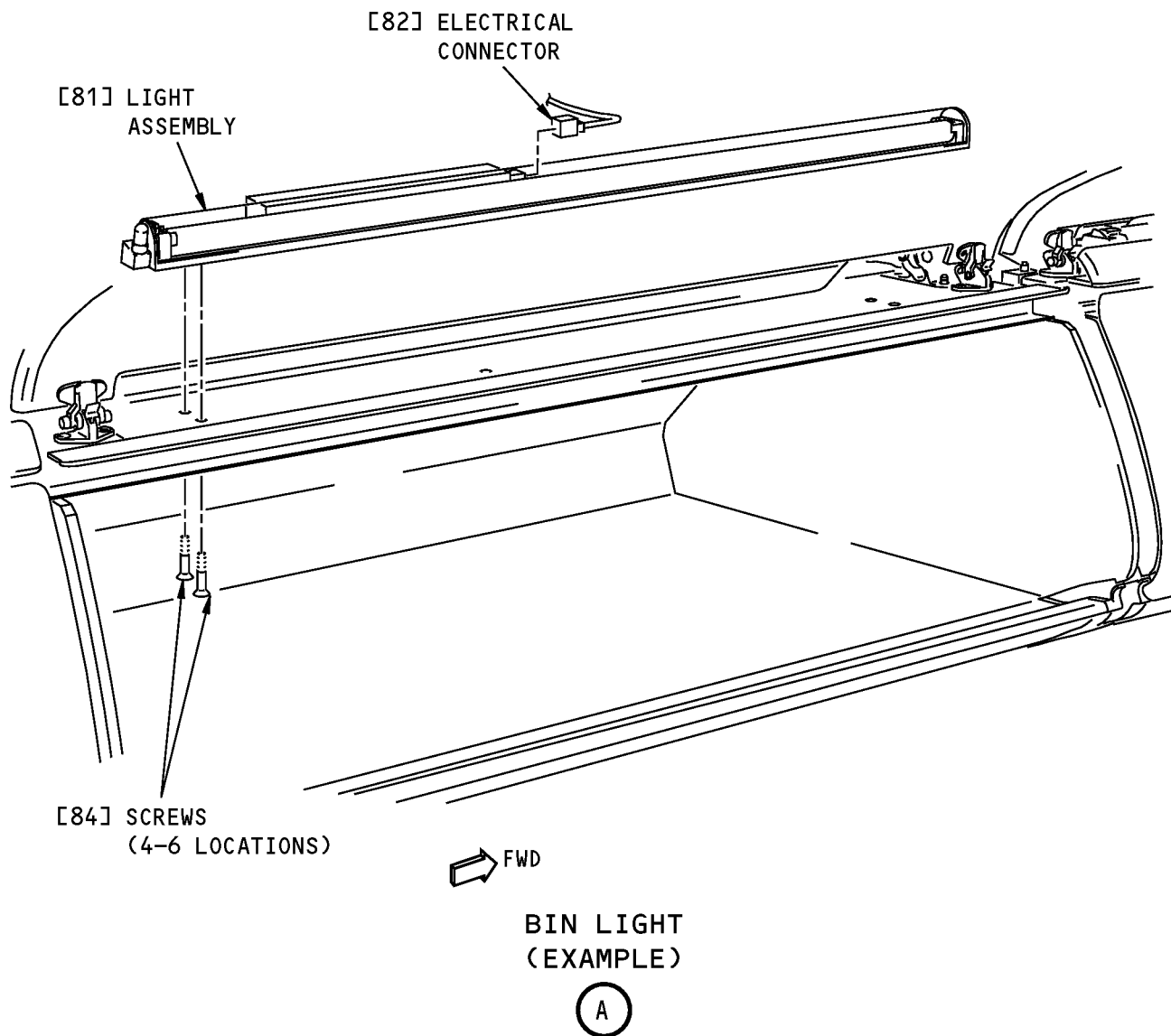
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NOTE: LIGHTSHIELD AND STOWAGE BIN DOORS
ARE NOT SHOWN FOR CLARITY.

Ceiling Light, Bin - Light Assembly Replacement
Figure 205 (Sheet 2 of 2)/33-22-00-990-805

EFFECTIVITY
HAP ALL

D633A101-HAP

33-22-00

Page 219
Oct 10/2003



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-22-00-960-806

7. Ceiling Light, Bin - Fuse 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)
SSM 33-22-11	System Schematics Manual
SSM 33-22-12	System Schematics Manual

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Procedure

SUBTASK 33-22-00-860-018

CAUTION: DO NOT REPLACE THE FUSE UNTIL ELECTRICAL POWER IS REMOVED FROM THE CIRCUIT. IF YOU DO NOT REMOVE ELECTRICAL POWER, YOU CAN CAUSE DAMAGE TO THE FUSE IN THE LIGHT ASSEMBLY.

- (1) At the forward attendant panel, set the switch for the ceiling lights to the off mode and attach the safety tag.

SUBTASK 33-22-00-960-007

WARNING: DO NOT TOUCH THE LAMP SOCKETS AND THE METAL ENDS OF THE LAMP AND FUSE. WHEN ELECTRICAL POWER IS SUPPLIED TO THE LIGHT, ELECTRICAL SHOCK CAN OCCUR.

- (2) Do these steps to replace the fuse (SSM 33-22-11) (SSM 33-22-12):
 - (a) Remove the lamp [21] (Ceiling Light, Bin - Lamp Replacement, TASK 33-22-00-960-802).
 - (b) Check and replace the fuse [22] if it is unserviceable.
 - (c) Install the lamp [21] (Ceiling Light, Bin - Lamp Replacement, TASK 33-22-00-960-802).

SUBTASK 33-22-00-860-019

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

SUBTASK 33-22-00-710-006

- (4) Do a test of the new fuse:
 - (a) Set the switch for the ceiling lights to the bright mode.
 - 1) Make sure the light comes on brightly.
 - (b) Set the switch to the usual mode.

SUBTASK 33-22-00-860-020

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

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

33-22-00

Page 220
Feb 10/2004

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

READING LIGHTS - MAINTENANCE PRACTICES

1. General

A. This procedure has these tasks:

- (1) Reading Light - Lamp Replacement
- (2) Reading Light - Light Assembly Replacement
- (3) Reading Light - Adjustment
- (4) Reading Light - PSU Circuit Board Replacement
- (5) Reading Light - PSU Circuit Board Fuse Replacement.

TASK 33-23-00-960-801

2. Reading 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)
SSM 33-23-11	System Schematics Manual
SSM 33-23-12	System Schematics Manual
SSM 33-23-21	System Schematics Manual
SSM 33-23-22	System Schematics Manual
SSM 33-23-31	System Schematics Manual

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Procedure

SUBTASK 33-23-00-960-001

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

WARNING: PUT ON SAFETY GLASSES TO PREVENT EYE INJURIES. EYE PROTECTION IS MANDATORY. THE HALOGEN LAMP IS PRESSURIZED. IF THE LAMP BREAKS, THE PRESSURE WILL EJECT THE GLASS WITH AN EXPLOSIVE FORCE. INJURIES TO YOUR EYES CAN OCCUR IF THE LAMP BREAKS.

CAUTION: DO NOT TOUCH THE HALOGEN LAMP WITH YOUR BARE SKIN. USE A CLOTH TO HOLD THE HALOGEN LAMP. IF YOUR SKIN TOUCHES THE HALOGEN LAMP, YOU WILL DECREASE ITS LIFE.

- (1) Do these steps to replace the lamp (SSM 33-23-11) (SSM 33-23-12) (SSM 33-23-21) (SSM 33-23-22) (SSM 33-23-31):

- (a) Remove the lens assembly [2].

NOTE: With two fingers, push together the inner and outer sides of the lens assembly. At the same time, turn the lens assembly counterclockwise to disengage it.

- (b) Replace the lamp [1].

EFFECTIVITY
HAP ALL

33-23-00

Page 201
Jun 15/2008

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (c) Install the lens assembly [2].

SUBTASK 33-23-00-860-001

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

SUBTASK 33-23-00-710-001

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

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

- 1) Make sure the lamp comes on.

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

- 1) Make sure the lamp goes off.

SUBTASK 33-23-00-860-002

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

————— **END OF TASK** —————

EFFECTIVITY
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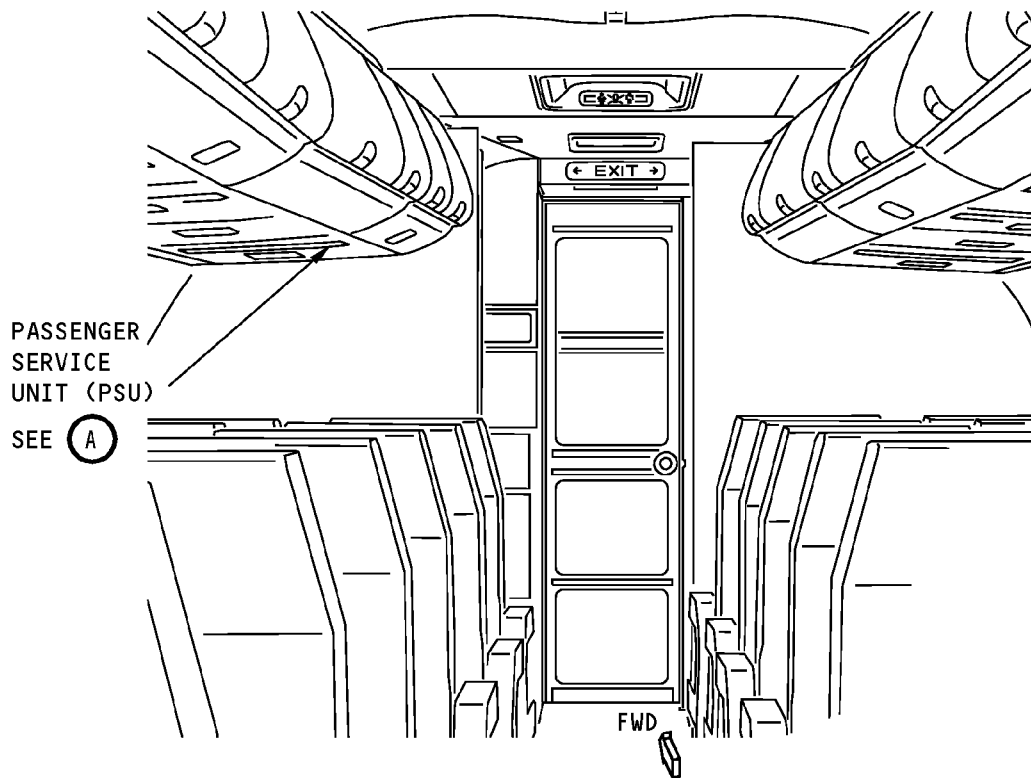
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Page 202
Jun 15/2008

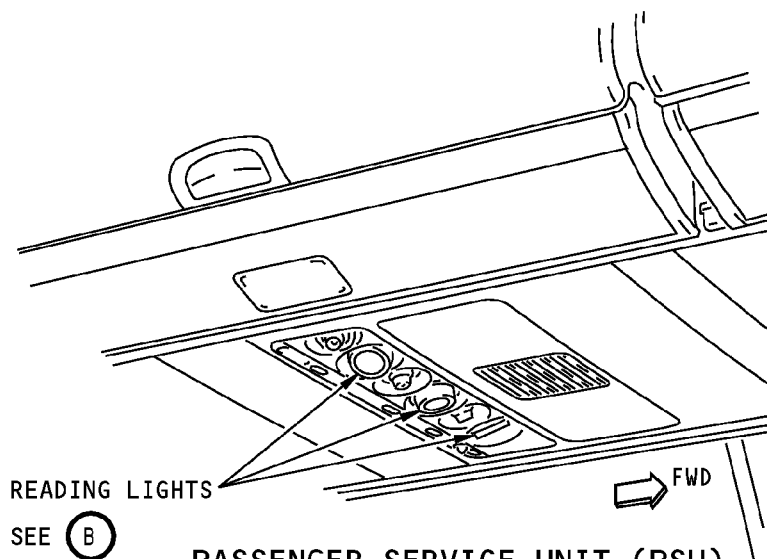


737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL



PASSENGER COMPARTMENT



PASSENGER SERVICE UNIT (PSU) (EXAMPLE)

(A)

Reading Light - Lamp Replacement
Figure 201 (Sheet 1 of 2)/33-23-00-990-801

EFFECTIVITY
HAP ALL

33-23-00

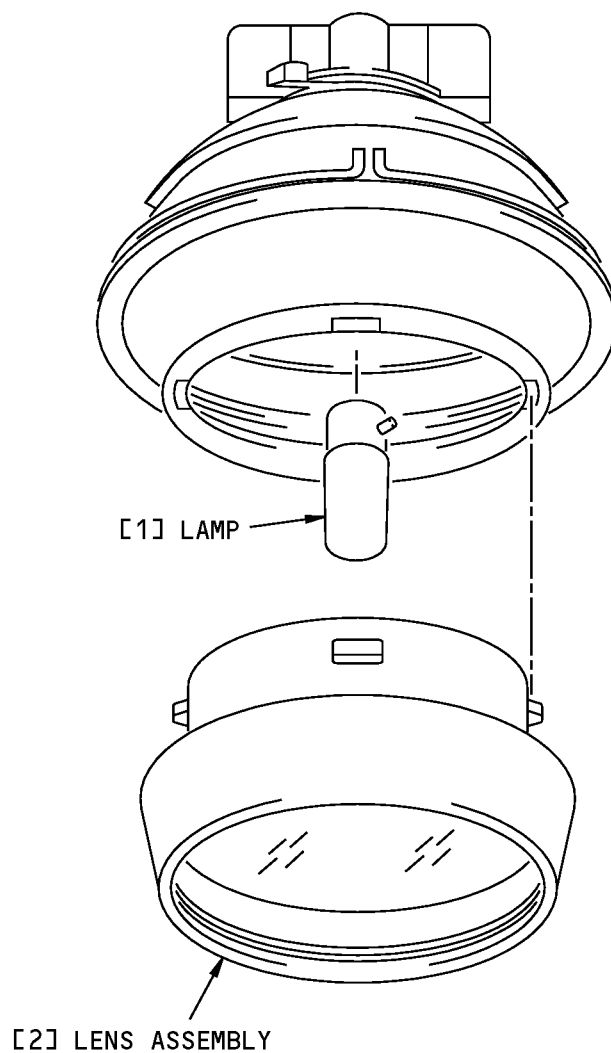
Page 203
Oct 10/2003

D633A101-HAP

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



READING LIGHT
(EXAMPLE)



Reading Light - Lamp Replacement
Figure 201 (Sheet 2 of 2)/33-23-00-990-801

EFFECTIVITY
HAP ALL

D633A101-HAP

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33-23-00

Page 204
Feb 10/2005



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-23-00-960-802

3. Reading 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)
25-23-61-000-801	Passenger Service Unit (PSU) Removal (P/B 201)
25-23-61-400-801	Passenger Service Unit (PSU) Installation (P/B 201)
SSM 33-23-11	System Schematics Manual
SSM 33-23-12	System Schematics Manual
SSM 33-23-21	System Schematics Manual
SSM 33-23-22	System Schematics Manual
SSM 33-23-31	System Schematics Manual

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Procedure

SUBTASK 33-23-00-960-003

- (1) To replace fuse. Do this task: Reading Light - PSU Circuit Board Fuse Replacement, TASK 33-23-00-960-803.

NOTE: If the new fuse corrects the problem then you do not need to replace the light assembly.

SUBTASK 33-23-00-860-003

- (2) Open the applicable circuit breakers and install the 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

HAP 001-013, 015-026, 028-054

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
HAP ALL			
B	1	C00094	PASS READING LIGHTS-RIGHT STA340-464
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
HAP ALL

33-23-00

Page 205
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

Row	Col	Number	Name
B	6	C00099	PASS READING LIGHTS-RIGHT
B	7	C00774	PASS READING LIGHTS-RIGHT
HAP 001-013, 015-026, 028-054			
B	8	C01437	PASS READING LIGHTS-R STA768-880
B	9	C01438	PASS READING LIGHTS-R STA880-937

HAP ALL

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

SUBTASK 33-23-00-010-001

- (3) For access to the top of the light assembly, lower the passenger service unit (PSU) (Passenger Service Unit (PSU) Removal, TASK 25-23-61-000-801).

SUBTASK 33-23-00-960-002

- (4) 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.

- (c) Replace the light assembly [23].

- Make sure a lamp is installed in the new light assembly (Reading Light - Lamp Replacement, TASK 33-23-00-960-801).
- 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.

- (d) 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.

- (e) Connect the electrical connectors [21].

SUBTASK 33-23-00-410-001

- (5) Close the PSU (Passenger Service Unit (PSU) Installation, TASK 25-23-61-400-801).

SUBTASK 33-23-00-860-004

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

SUBTASK 33-23-00-860-005

- (7) Remove the safety tags and close the applicable 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
HAP 001-013, 015-026, 028-054			
B	8	C01152	PASS READING LIGHTS-LEFT STA768-880

EFFECTIVITY
HAP ALL

33-23-00

Page 206
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

HAP 001-013, 015-026, 028-054 (Continued)

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
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>
HAP ALL			
B	1	C00094	PASS READING LIGHTS-RIGHT STA340-464
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

HAP 001-013, 015-026, 028-054

B	8	C01437	PASS READING LIGHTS-R STA768-880
B	9	C01438	PASS READING LIGHTS-R STA880-937

HAP ALL

SUBTASK 33-23-00-710-002

(8) 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

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

END OF TASK

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HAP ALL

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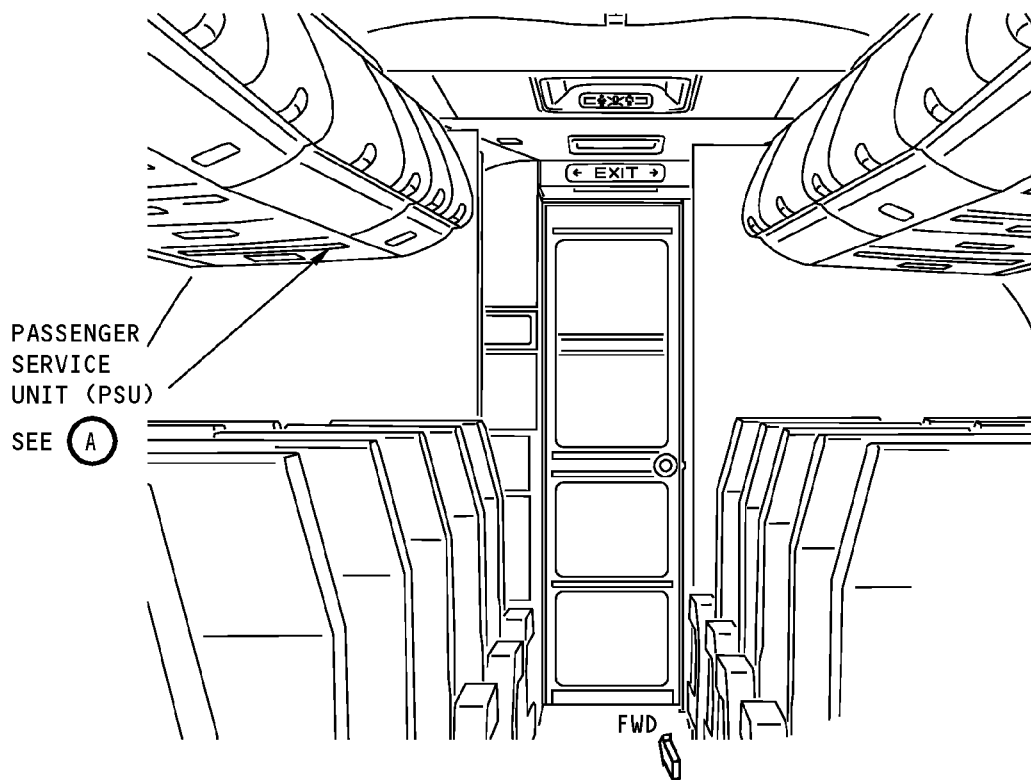
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Page 207
Feb 15/2009

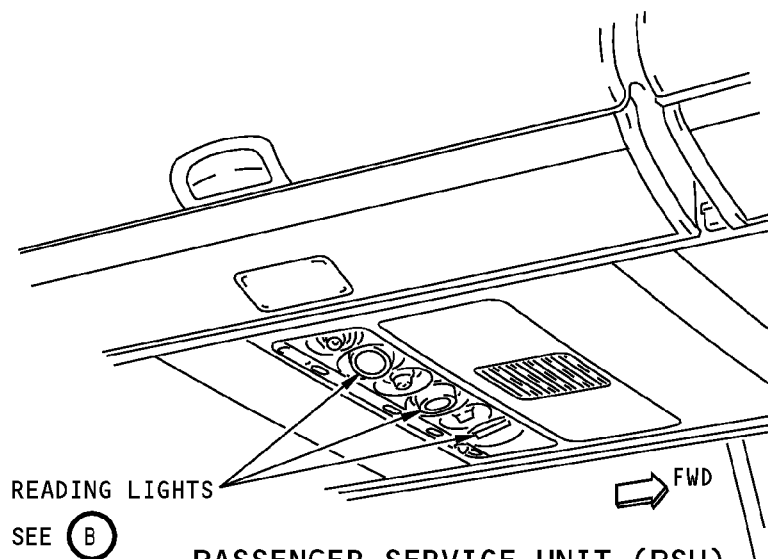


737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL



PASSENGER COMPARTMENT



PASSENGER SERVICE UNIT (PSU) (EXAMPLE)

(A)

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

EFFECTIVITY
HAP ALL

33-23-00

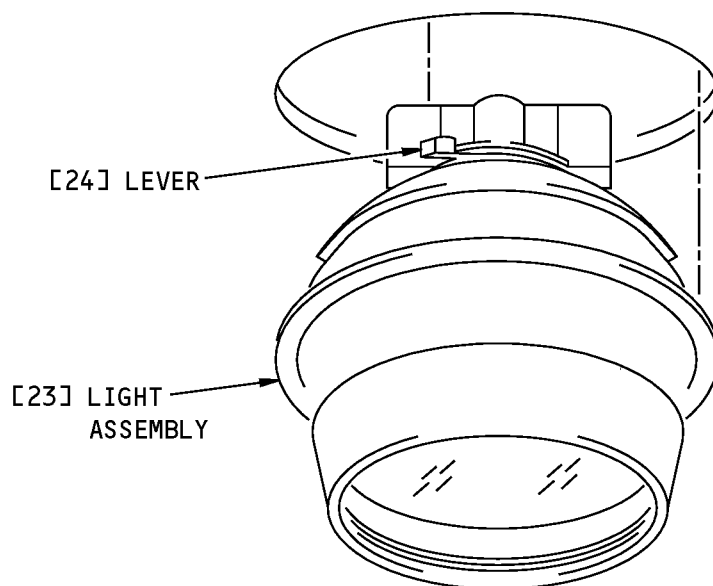
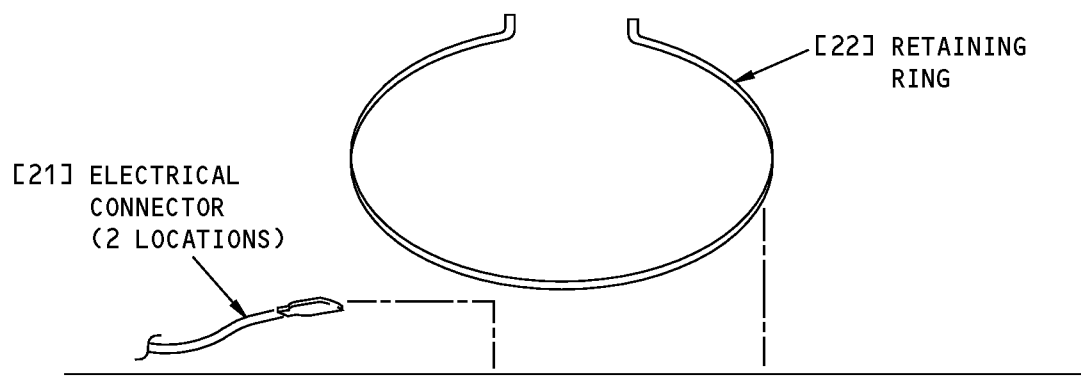
Page 208
Oct 10/2003

D633A101-HAP

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



READING LIGHT
(EXAMPLE)

(B)

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

EFFECTIVITY
HAP ALL

D633A101-HAP

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33-23-00

Page 209
Oct 10/2003



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-23-00-820-803

4. Reading Light - Adjustment

Figure 203

A. General

- (1) If the reading light has circular lens, you can permit the passengers and attendants to adjust the direction of the light beam. You can also adjust and lock the reading light in its position. Passengers and attendants cannot change direction of the light beam while the reading light is locked.
- (2) If the reading light has a rectangular lens, you adjust where the light beam is pointed. Passenger and attendants cannot adjust the reading light to change the direction of the light beam

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)
25-23-61-000-801	Passenger Service Unit (PSU) Removal (P/B 201)
25-23-61-400-801	Passenger Service Unit (PSU) Installation (P/B 201)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Procedure

SUBTASK 33-23-00-820-006

(1) Adjusting the reading light.

- (a) 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

HAP 001-013, 015-026, 028-054

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

EFFECTIVITY
HAP ALL

33-23-00

Page 210
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

HAP 001-013, 015-026, 028-054 (Continued)

Power Distribution Panel Number 2, P92

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
HAP ALL			
B	1	C00094	PASS READING LIGHTS-RIGHT STA340-464
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

HAP 001-013, 015-026, 028-054

B	8	C01437	PASS READING LIGHTS-R STA768-880
B	9	C01438	PASS READING LIGHTS-R STA880-937

HAP ALL

- (e) Open the passenger service unit (PSU) to get access to the rear of the reading light (Passenger Service Unit (PSU) Removal, TASK 25-23-61-000-801).

- (f) READING LIGHT WITH CIRCULAR LENS:

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) Use the lever to lock the reading light in its position.

- (g) READING LIGHT WITH A RECTANGULAR LENS:

Adjust the direction of the light beam.

- 1) Loosen the two adjustment nuts on the edge of the reflector.
- 2) Move the reflector until the reading light is in the correct position.
- 3) Tighten the adjustment nuts.

- (h) Close the PSU (Passenger Service Unit (PSU) Installation, TASK 25-23-61-400-801).

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

HAP 001-013, 015-026, 028-054

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

EFFECTIVITY
HAP ALL

33-23-00

Page 211
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

HAP 001-013, 015-026, 028-054 (Continued)

Power Distribution Panel Number 2, P92

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
HAP ALL			
B	1	C00094	PASS READING LIGHTS-RIGHT STA340-464
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

HAP 001-013, 015-026, 028-054

B	8	C01437	PASS READING LIGHTS-R STA768-880
B	9	C01438	PASS READING LIGHTS-R STA880-937

HAP ALL

- (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** —————

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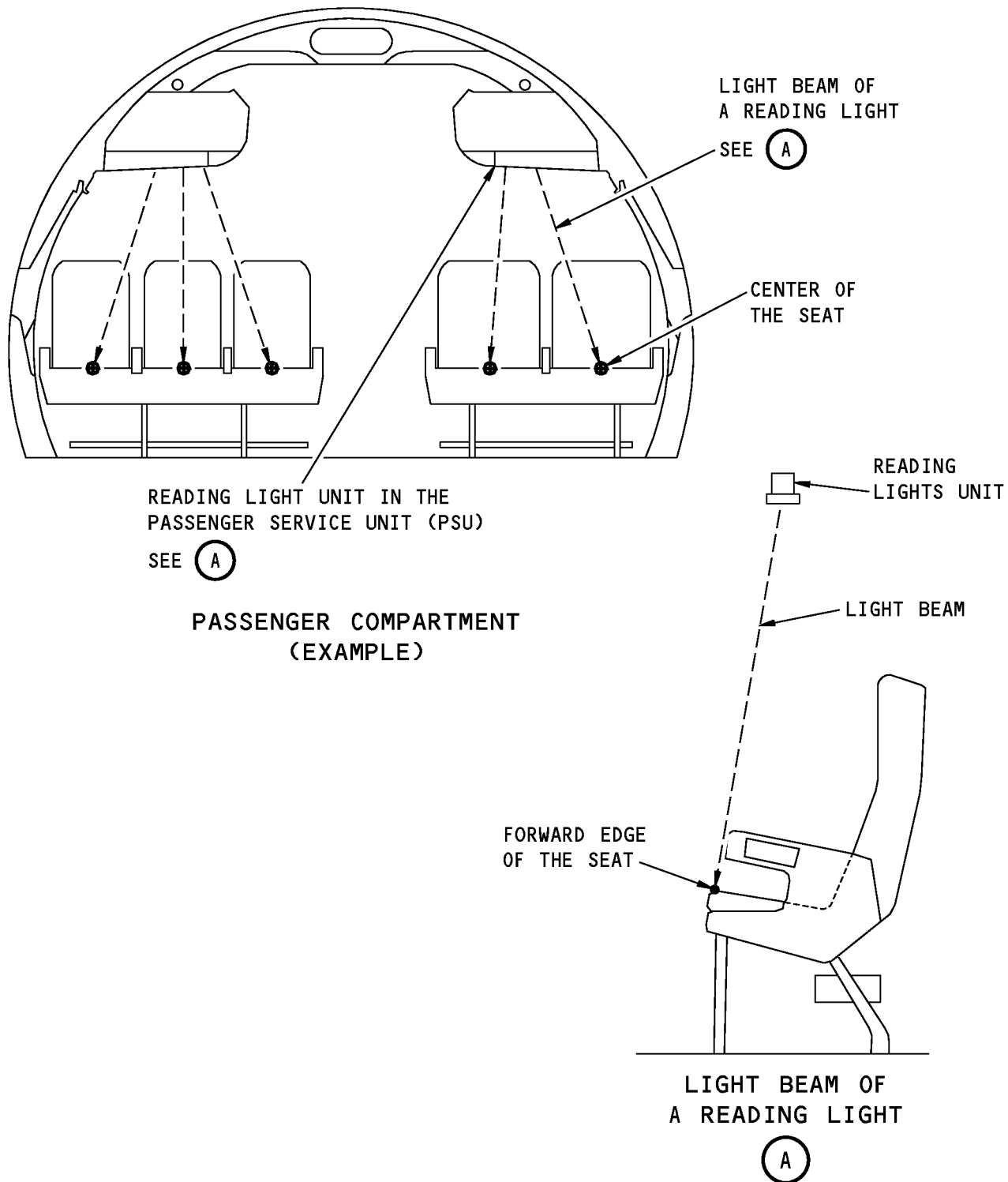
33-23-00

Page 212
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL



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

EFFECTIVITY
HAP ALL

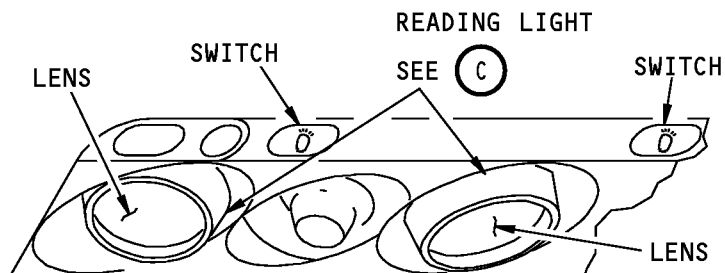
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Page 213
Jun 15/2008

D633A101-HAP

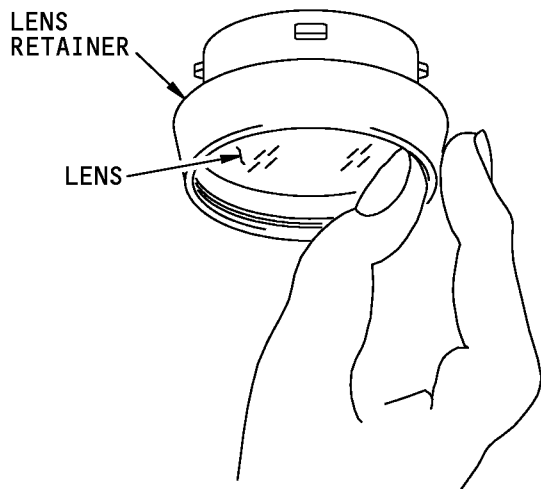
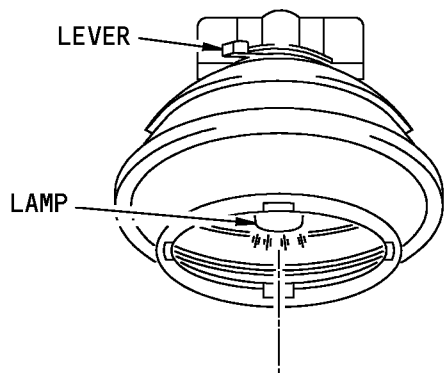
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READING LIGHTS UNIT (EXAMPLE)

(B) 1

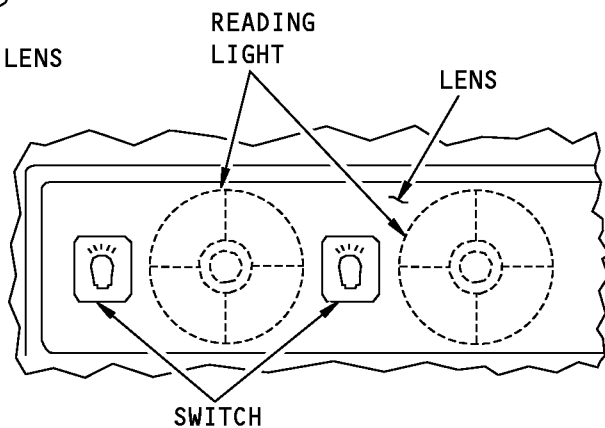


READING LIGHT (EXAMPLE)

(C) 1

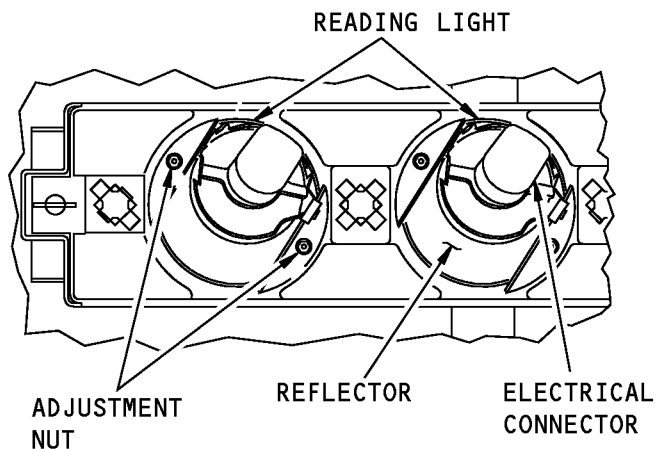
1 READING LIGHT WITH A CIRCULAR LENS

2 READING LIGHT WITH A RECTANGULAR LENS



READING LIGHTS UNIT (EXAMPLE)
(FRONT VIEW)

(B) 2



READING LIGHTS UNIT (EXAMPLE)
(REAR VIEW)

(B) 2

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

EFFECTIVITY
HAP ALL

33-23-00

Page 214
Jun 15/2008

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-23-00-820-801

5. Reading Light - PSU Circuit Board Replacement

(Figure 204)

A. References

Reference	Title
20-40-12-000-801	ESDS Handling for Printed Circuit Board Removal (P/B 201)
20-40-12-400-801	ESDS Handling for Printed Circuit Board Installation (P/B 201)
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
25-23-61-000-801	Passenger Service Unit (PSU) Removal (P/B 201)
25-23-61-400-802	Three-piece Adjustable PSU Spacer Panel Installation (P/B 201)
SSM 33-23-11	System Schematics Manual
SSM 33-23-12	System Schematics Manual
SSM 33-23-21	System Schematics Manual
SSM 33-23-22	System Schematics Manual
SSM 33-23-31	System Schematics Manual

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Procedure

SUBTASK 33-23-00-860-007

- (1) Open the applicable circuit breakers and install the 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

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

HAP 001-013, 015-026, 028-054

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
HAP ALL			
B	1	C00094	PASS READING LIGHTS-RIGHT STA340-464
B	2	C00095	PASS READING LIGHTS-RIGHT
B	3	C00096	PASS READING LIGHTS-RIGHT

EFFECTIVITY
HAP ALL

33-23-00

Page 215
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

Row	Col	Number	Name
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
HAP 001-013, 015-026, 028-054			
B	8	C01437	PASS READING LIGHTS-R STA768-880
B	9	C01438	PASS READING LIGHTS-R STA880-937

HAP ALL

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

SUBTASK 33-23-00-010-002

- (2) For access to the top of the light assembly, lower the passenger service unit (PSU) [45] (Passenger Service Unit (PSU) Removal, TASK 25-23-61-000-801).

SUBTASK 33-23-00-820-001

- (3) Do these steps to replace the PSU circuit board:

CAUTION: DO NOT TOUCH THE CIRCUIT BOARD BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE.
ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE CIRCUIT BOARD.

- (a) Before you touch the PSU circuit board, do this task: ESDS Handling for Printed Circuit Board Removal, TASK 20-40-12-000-801.
- (b) Disconnect the electrical connectors [43] from the circuit board.
- (c) Remove each fastener [42] from the shroud.
- (d) Lift away the shroud [41].

NOTE: It is not necessary to remove the electrical wires from the shroud.

- (e) Remove the circuit board [44] from the PSU.

NOTE: Do not discard the circuit board. Its fuses are replaceable.

- (f) If necessary, do this task to replace the fuse: Reading Light - PSU Circuit Board Fuse Replacement, TASK 33-23-00-960-803.

CAUTION: DO NOT TOUCH THE CIRCUIT BOARD BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE.
ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE CIRCUIT BOARD.

- (g) Before you touch the new circuit board, do this task: ESDS Handling for Printed Circuit Board Installation, TASK 20-40-12-400-801.
- (h) Install the circuit board [44].
- (i) Replace the shroud [41].
- (j) Install each fastener [42] on the shroud.
- (k) Connect the electrical connectors [43].

SUBTASK 33-23-00-410-002

- (4) Close the PSU [45] (Three-piece Adjustable PSU Spacer Panel Installation, TASK 25-23-61-400-802).

SUBTASK 33-23-00-860-008

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

EFFECTIVITY
HAP ALL

33-23-00

Page 216
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 33-23-00-860-009

- (6) 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

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

HAP 001-013, 015-026, 028-054

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>
------------	------------	---------------	-------------

HAP ALL

B	1	C00094	PASS READING LIGHTS-RIGHT STA340-464
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

HAP 001-013, 015-026, 028-054

B	8	C01437	PASS READING LIGHTS-R STA768-880
B	9	C01438	PASS READING LIGHTS-R STA880-937

HAP ALL

SUBTASK 33-23-00-710-003

- (7) Do a test of the new PSU circuit board:
- Set one of the switches for the reading lights to the on mode.
 - Make sure the light comes on.
 - Set the switch to the off mode.
 - Make sure the light goes off.

SUBTASK 33-23-00-860-010

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

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

33-23-00

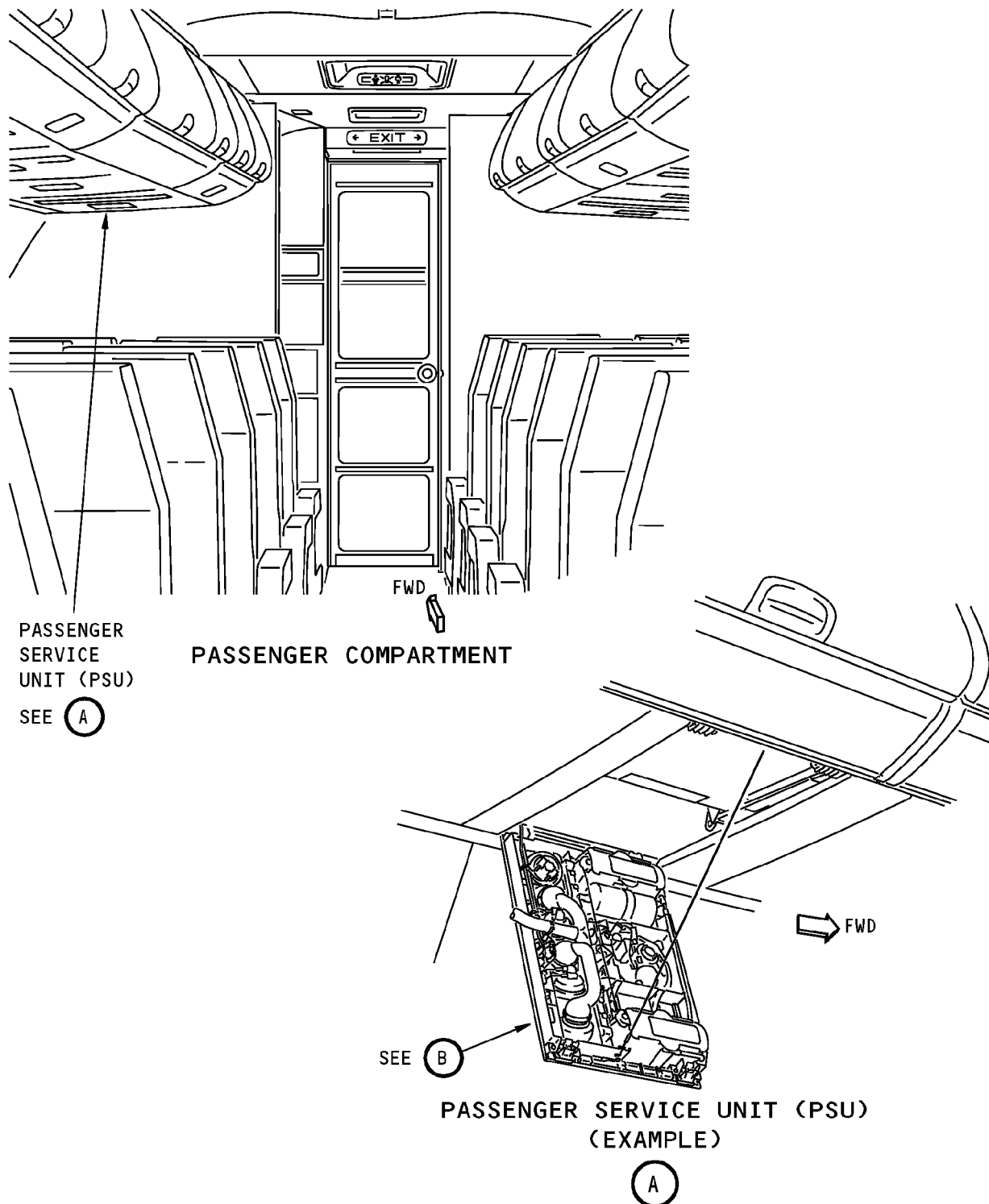
Page 217
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL



Reading Light - PSU Circuit Board Replacement
Figure 204 (Sheet 1 of 2)/33-23-00-990-803

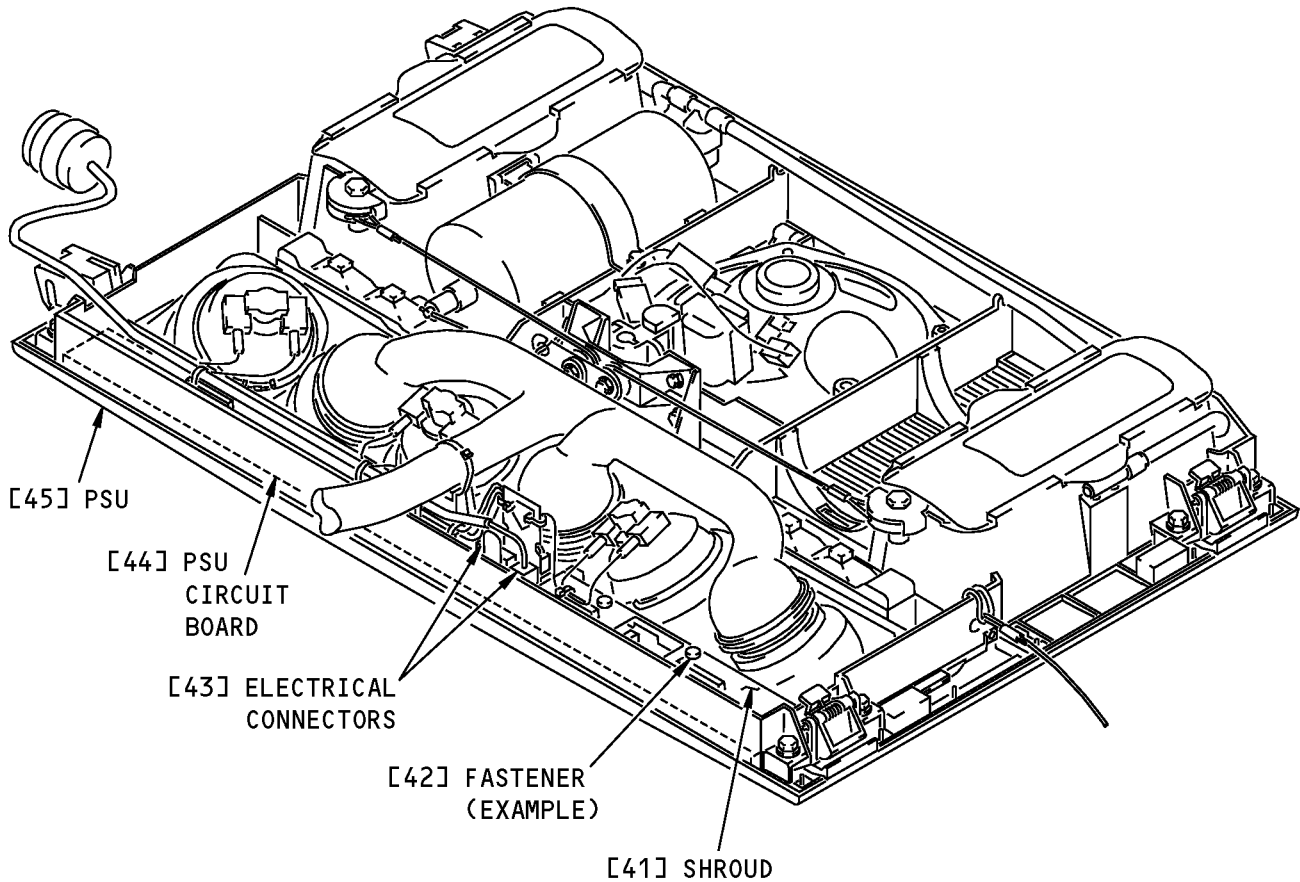
EFFECTIVITY
HAP ALL

33-23-00

Page 218
Jun 15/2008

D633A101-HAP

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**PASSENGER SERVICE UNIT (PSU)
(EXAMPLE)**

B

**Reading Light - PSU Circuit Board Replacement
Figure 204 (Sheet 2 of 2)/33-23-00-990-803**

**EFFECTIVITY
HAP ALL**

33-23-00

Page 219
Jun 15/2008

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-23-00-960-803

6. Reading Light - PSU Circuit Board Fuse Replacement

(Figure 205) (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. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Procedure

HAP 001-013, 015, 016, 036

SUBTASK 33-23-00-820-004

- (1) Do these steps to replace the reading light fuse [61], F5 on the PSU circuit board:
 - (a) For removal of PSU circuit board, do this task: Reading Light - PSU Circuit Board Replacement, TASK 33-23-00-820-801.
 - (b) Remove cap of fuseholder F5.
 - (c) Remove reading light fuse [61], F5 from the circuit board.
 - (d) Install the new reading light fuse [61], F5 on the circuit board.
 - (e) For installation of PSU circuit board, do this task: Reading Light - PSU Circuit Board Replacement, TASK 33-23-00-820-801.

HAP 017-026, 028-035, 037-054, 101-999

SUBTASK 33-23-00-820-005

- (2) Do these steps to replace the fuses on the PSU circuit board:

Fuse Function	Fuse Number
call select fuse [67]	F1
oxygen actuator fuse [62]	F2
no smoking fuse [63]	F3
fasten seat belt fuse [64]	F4
reading light fuse [66]	F5
muting relay fuse [65]	F6

- (a) Do this task to remove the PSU circuit board: Reading Light - PSU Circuit Board Replacement, TASK 33-23-00-820-801
- (b) Remove the applicable fuse from the circuit board.
- (c) Install the new fuse on the circuit board.
- (d) Do this task to install PSU circuit board: Reading Light - PSU Circuit Board Replacement, TASK 33-23-00-820-801.

HAP ALL

EFFECTIVITY
HAP ALL

33-23-00

Page 220
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 33-23-00-860-016

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

SUBTASK 33-23-00-710-005

(4) Do a test of the new fuse for the reading light:

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

SUBTASK 33-23-00-710-006

(5) Do a test of the new fuse for the call light:

- (a) At the applicable passenger service unit PSU, set the call switch to the on mode.
 - 1) Make sure the call light on the PSU comes on.
 - 2) Make sure the blue call light in the exit sign near the door comes on.

NOTE: A call-select switch on the PSU lets you send the call signal to the forward or the aft exit sign.

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

SUBTASK 33-23-00-710-007

(6) Do a test of the new fuse for the fasten seat belt indication:

- (a) At the pilots overhead panel, P5, set the switch for the seat belts to the on mode.
 - 1) Make sure the return-to-seat sign comes on.
- (b) Set the call switch to the off mode.
 - 1) Make sure the sign goes off.

HAP 001-013, 015-026, 028-030

SUBTASK 33-23-00-710-008

(7) Do a test of the new fuse for the NO-SMOKING light:

- (a) At the pilots overhead panel, P5, set the switch for the no smoking switch to the on mode.
 - 1) Make sure the return-to-seat sign comes on.
- (b) Set the call switch to the off mode.
 - 1) Make sure the sign goes off.

HAP 031-054, 101-999

SUBTASK 33-23-00-710-009

(8) Make sure the lamp for NO-SMOKING comes on when electrical power is supplied.

HAP ALL

SUBTASK 33-23-00-860-018

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

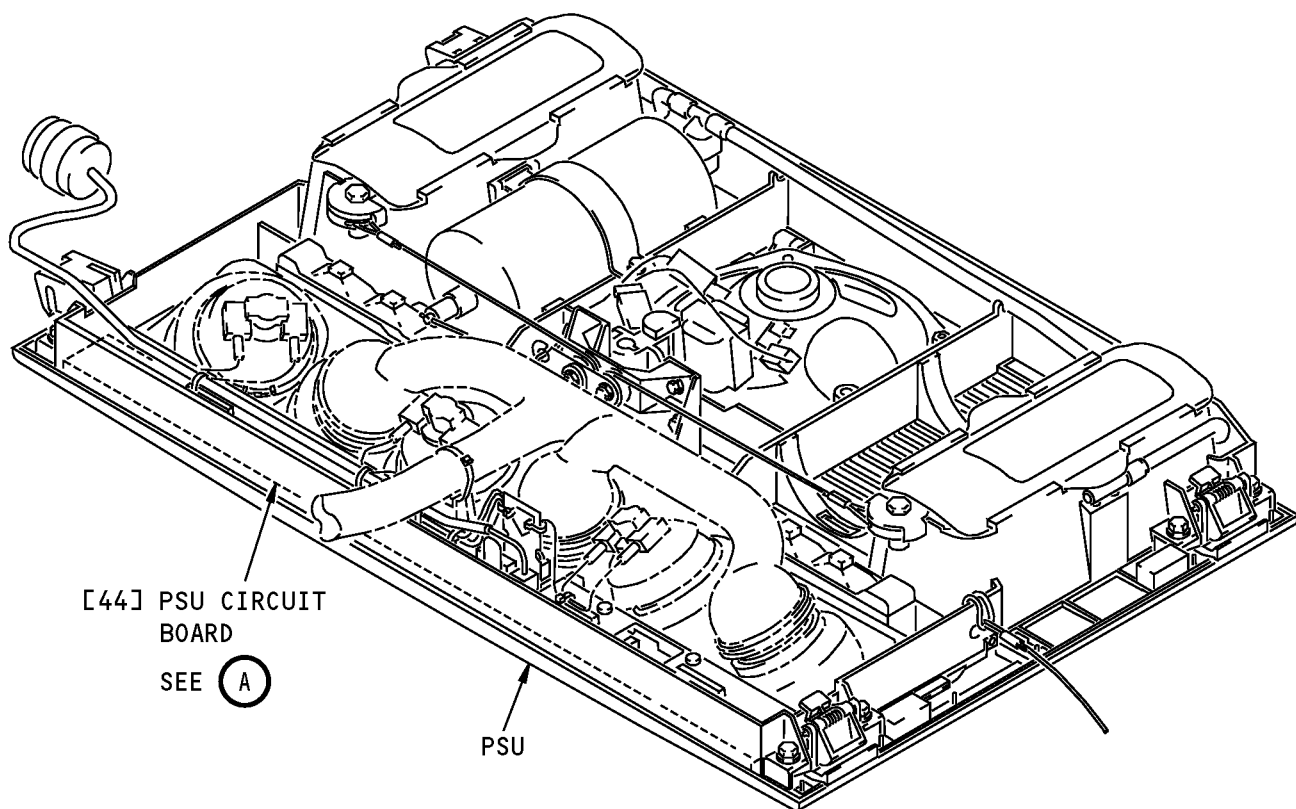
————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

33-23-00

Page 221
Feb 15/2009

D633A101-HAP



Reading Light - PSU Circuit Board Fuse Replacement
Figure 205 (Sheet 1 of 3)/33-23-00-990-804

EFFECTIVITY
HAP ALL

D633A101-HAP

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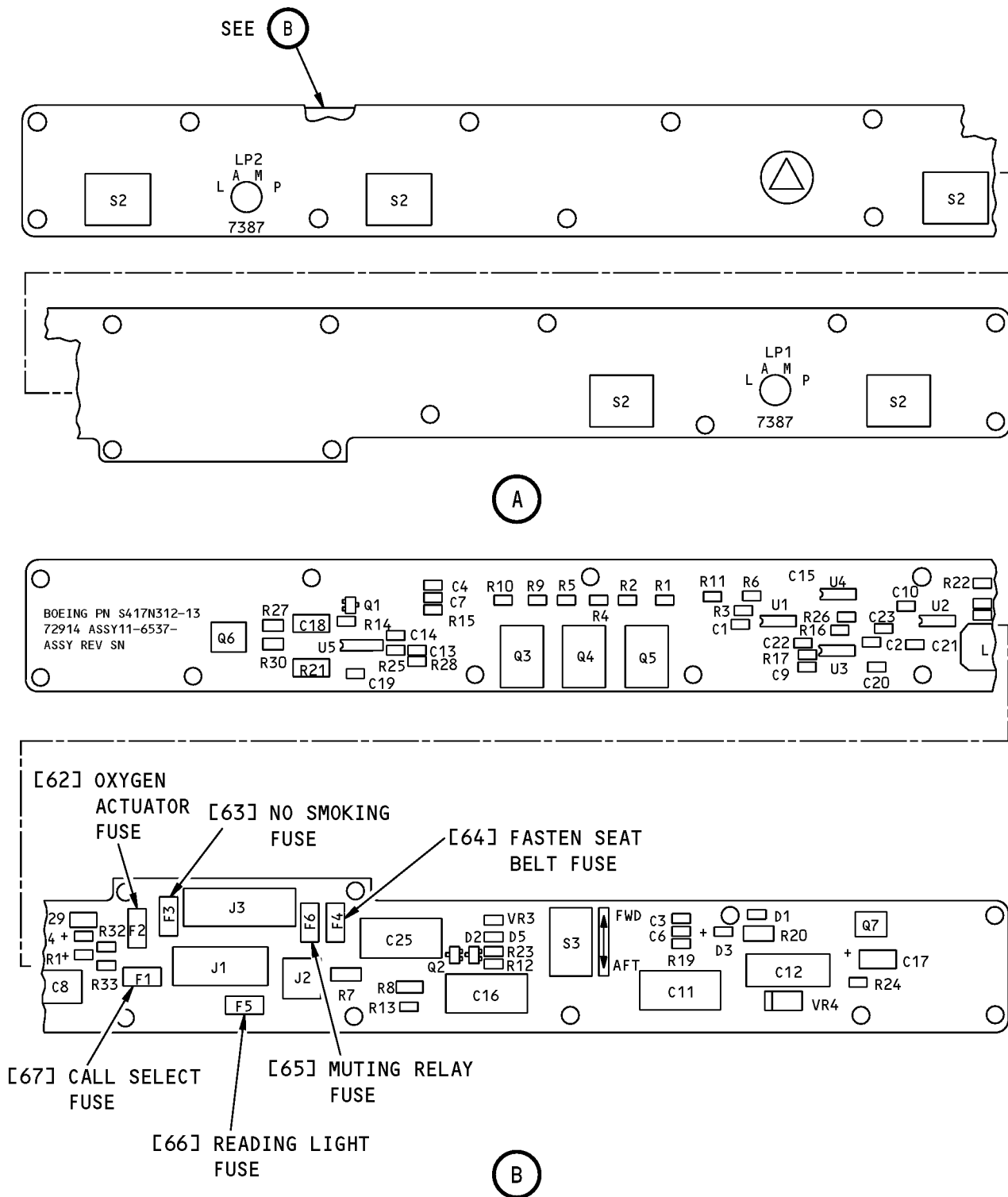
Page 222
Jun 15/2008



33-23-00

D633A101-HAP

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



Reading Light - PSU Circuit Board Fuse Replacement
Figure 205 (Sheet 3 of 3)/33-23-00-990-804

EFFECTIVITY
HAP 017-026, 028-035, 037-054, 101-999

D633A101-HAP

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33-23-00

Page 224
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

INFORMATION SIGNS - MAINTENANCE PRACTICES

1. General

A. This procedure has these tasks:

- (1) Information Sign - Lamp Replacement
- (2) Information Sign - Light Assembly Replacement for a No-Smoking/Fasten-Seat-Belt Sign

HAP 031-054, 101-999

- (3) Information Sign - Light Assembly Replacement for a Return-to-Seat Sign

HAP 001-013, 015-026, 028-030

- (4) Information Sign - Lamp Replacement for a Return-to-Seat Sign

HAP ALL

- (5) Information Sign - Fuse Replacement

- (a) To replace the fuses for the information signs, do these tasks: Reading Light - PSU Circuit Board Fuse Replacement, TASK 33-23-00-960-803.

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).

HAP 031-054, 101-999; AIRPLANES WITH ELECTRICALLY ILLUMINATED SIGNS

- C. 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.

HAP 001-013, 015-026, 028-030; AIRPLANES THAT USE THE NO-SMOKING SWITCH TO OPERATE THE NO-SMOKING SIGNS

TASK 33-25-00-960-801

2. Information Sign - Lamp Replacement

(Figure 201)

A. General

HAP 001-013, 015-026, 028-030

- (1) This task does not include the return-to-seat signs in the lavatories. These light assemblies have LEDS; they do not have lamps.

HAP 001-013, 015-026, 028-030; AIRPLANES THAT USE THE NO-SMOKING SWITCH TO OPERATE THE NO-SMOKING SIGNS

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)
25-23-61-000-801	Passenger Service Unit (PSU) Removal (P/B 201)
25-23-61-400-801	Passenger Service Unit (PSU) Installation (P/B 201)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

EFFECTIVITY
HAP ALL

33-25-00

Page 201
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

HAP 001-013, 015-026, 028-030; AIRPLANES THAT USE THE NO-SMOKING SWITCH TO OPERATE THE NO-SMOKING SIGNS (Continued)

D. Procedure

SUBTASK 33-25-00-860-001

- (1) At the pilots overhead panel, P5, set the switches for the passenger signs to the off mode.

HAP 001-013, 015-026, 028-030; AIRPLANES WITH A SIGN INSTALLED IN THE PASSENGER SERVICE UNIT (PSU)

SUBTASK 33-25-00-960-001

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 one of the following sets of steps to replace the lamp:

NOTE: These steps do not apply if a video monitor is also installed in the PSU. A different sign is used which requires replacement of the light assembly.

HAP 001-013, 015-026, 028-030; AIRPLANES WITH A PASSENGER SIGN WITH A SLOT AT THE EDGE OF THE LENS

- (a) Do the following:

- 1) Carefully remove the lens with a screwdriver.

NOTE: Use a screwdriver with a flat end that will fit into the slot at the edge of the lens.

- 2) Carefully replace the lamp.
- 3) Carefully push the lens back into its position.

HAP 001-013, 015-026, 028-030; AIRPLANES WITH A PASSENGER SIGN WITHOUT A SLOT AT THE EDGE OF THE LENS

- (b) Do the following:

- 1) Lower the PSU (Passenger Service Unit (PSU) Removal, TASK 25-23-61-000-801).
- 2) Release the fasteners and lift up the light assembly.
- 3) Pull the lamp through the rear of the sign assembly.
- 4) Replace the lamp.
- 5) Install the light assembly and tighten the fasteners.
- 6) Close the PSU (Passenger Service Unit (PSU) Installation, TASK 25-23-61-400-801).

HAP 001-013, 015-026, 028-030; AIRPLANES WITH A SIGN INSTALLED ON A WALL

SUBTASK 33-25-00-960-002

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.

- (3) Do these steps to replace the lamp:
 - (a) Pull the sign assembly away from the wall.
 - (b) Loosen the fasteners and remove the back of the housing.
 - (c) Replace the lamp.
 - (d) Install the housing and tighten the fasteners.

EFFECTIVITY
HAP ALL

33-25-00

Page 202
Jun 15/2008

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

HAP 001-013, 015-026, 028-030; AIRPLANES WITH A SIGN INSTALLED ON A WALL (Continued)

- (e) Push the sign assembly back into the wall.

HAP 001-013, 015-026, 028-030; AIRPLANES THAT USE THE NO-SMOKING SWITCH TO OPERATE THE NO-SMOKING SIGNS

SUBTASK 33-25-00-860-002

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

SUBTASK 33-25-00-710-001

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

- (a) At the pilots overhead panel, P5, set the switches for the passenger signs to the on mode.
- 1) Make sure the new lamp comes on.
- (b) Set the switches to the off mode.
- 1) Make sure the sign goes off.

SUBTASK 33-25-00-860-003

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

END OF TASK

HAP 031-054, 101-999

TASK 33-25-00-960-804

3. Information Sign - Lamp Replacement

(Figure 201)

A. General

- (1) The no-smoking switch on the P5 panel will not operate the signs. The switch will have a INOP placard.
- (2) This task does not include the return-to-seat signs in the lavatories. These light assemblies have LEDs; they do not have lamps. When these signs do not operate correctly, replace the light assembly (Information Sign - Light Assembly Replacement for a Return-to-Seat Sign, TASK 33-25-00-960-803).

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)
25-23-61-000-801	Passenger Service Unit (PSU) Removal (P/B 201)
25-23-61-400-801	Passenger Service Unit (PSU) Installation (P/B 201)
SSM 33-25-11	System Schematics Manual
SSM 33-25-12	System Schematics Manual
SSM 33-25-21	System Schematics Manual
SSM 33-25-22	System Schematics Manual
SSM 33-25-31	System Schematics Manual
SSM 33-25-32	System Schematics Manual
SSM 33-25-41	System Schematics Manual

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

EFFECTIVITY
HAP ALL

33-25-00

Page 203
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

HAP 031-054, 101-999 (Continued)

D. Procedure

SUBTASK 33-25-00-860-012

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

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	8	C01406	PASSENGER CABIN SIGNS FASTEN SEAT BELT RIGHT
C	9	C01405	PASSENGER CABIN SIGNS FASTEN SEAT BELT LEFT
C	10	C01408	PASSENGER CABIN SIGNS NO SMOKING RIGHT
C	11	C01407	PASSENGER CABIN SIGNS NO SMOKING LEFT

HAP 031-054, 101-999; AIRPLANES WITH A SIGN INSTALLED IN THE PASSENGER SERVICE UNIT (PSU)

SUBTASK 33-25-00-960-006

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

- (2) Do one of the following sets of steps to replace the lamp:

NOTE: These steps do not apply if a video monitor is also installed in the PSU. A different sign is used which requires replacement of the light assembly.

HAP 031-054, 101-999; AIRPLANES WITH A PASSENGER SIGN WITH A SLOT AT THE EDGE OF THE LENS

- (a) Do the following:

- 1) Carefully remove the lens with a screwdriver.

NOTE: Use a screwdriver with a flat end that will fit into the slot at the edge of the lens.

- 2) Carefully replace the lamp.
3) Carefully push the lens back into its position.

HAP 031-054, 101-999; AIRPLANES WITH A PASSENGER SIGN WITHOUT A SLOT AT THE EDGE OF THE LENS

- (b) Do the following:

- 1) Lower the PSU (Passenger Service Unit (PSU) Removal, TASK 25-23-61-000-801).
2) Release the fasteners and lift up the light assembly.
3) Pull the lamp through the rear of the sign assembly.
4) Replace the lamp.
5) Install the light assembly and tighten the fasteners.
6) Close the PSU (Passenger Service Unit (PSU) Installation, TASK 25-23-61-400-801).

EFFECTIVITY
HAP ALL

33-25-00

Page 204
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

HAP 031-054, 101-999; AIRPLANES WITH A PASSENGER SIGN WITHOUT A SLOT AT THE EDGE OF THE LENS (Continued)

HAP 031-054, 101-999; AIRPLANES WITH A SIGN INSTALLED ON A WALL

SUBTASK 33-25-00-960-007

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

- (3) Do these steps to replace the lamp:
- (a) Pull the sign assembly away from the wall.
 - (b) Loosen the fasteners and remove the back of the housing.
 - (c) Replace the lamp.
 - (d) Install the housing and tighten the fasteners.
 - (e) Push the sign assembly back into the wall.

HAP 031-054, 101-999

SUBTASK 33-25-00-860-013

- (4) 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>
C	8	C01406	PASSENGER CABIN SIGNS FASTEN SEAT BELT RIGHT
C	9	C01405	PASSENGER CABIN SIGNS FASTEN SEAT BELT LEFT
C	10	C01408	PASSENGER CABIN SIGNS NO SMOKING RIGHT
C	11	C01407	PASSENGER CABIN SIGNS NO SMOKING LEFT

SUBTASK 33-25-00-860-014

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

SUBTASK 33-25-00-710-004

- (6) For a NO-SMOKING sign, make sure the new lamp comes on when electrical power is supplied.

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

SUBTASK 33-25-00-710-005

- (7) For a FASTEN-SEAT-BELT sign, do a test of the new lamp:
- (a) At the pilots overhead panel, P5, set the switch for the seat belts to the on mode.
 - 1) Make sure the lamp comes on.
 - (b) Set the switch to the off mode.
 - 1) Make sure the sign goes off.

SUBTASK 33-25-00-860-015

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

HAP ALL

————— END OF TASK —————

EFFECTIVITY
HAP ALL

33-25-00

Page 205
Feb 15/2009

D633A101-HAP



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

TASK 33-25-00-960-802

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

(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)
25-23-61-000-801	Passenger Service Unit (PSU) Removal (P/B 201)
25-23-61-400-801	Passenger Service Unit (PSU) Installation (P/B 201)
33-23-00-960-803	Reading Light - PSU Circuit Board Fuse Replacement (P/B 201)
SSM 33-25-11	System Schematics Manual
SSM 33-25-12	System Schematics Manual
SSM 33-25-21	System Schematics Manual
SSM 33-25-22	System Schematics Manual
SSM 33-25-31	System Schematics Manual
SSM 33-25-32	System Schematics Manual
SSM 33-25-41	System Schematics Manual
SSM 33-25-51	System Schematics Manual

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Procedure

SUBTASK 33-25-00-960-011

- (1) To replace the fuse for the no-smoking/fasten-seat-selt sign, do this task:Reading Light - PSU Circuit Board Fuse Replacement, TASK 33-23-00-960-803.

NOTE: If the new fuse corrects the problem, you do not need to replace the light assembly.

SUBTASK 33-25-00-860-004

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
C	8	C01406	PASSENGER CABIN SIGNS FASTEN SEAT BELT RIGHT
C	9	C01405	PASSENGER CABIN SIGNS FASTEN SEAT BELT LEFT
C	10	C01408	PASSENGER CABIN SIGNS NO SMOKING RIGHT
C	11	C01407	PASSENGER CABIN SIGNS NO SMOKING LEFT

(SSM 33-25-11) (SSM 33-25-12) (SSM 33-25-21) (SSM 33-25-22) (SSM 33-25-31) (SSM 33-25-32) (SSM 33-25-41) (SSM 33-25-51)

EFFECTIVITY
HAP ALL

33-25-00

Page 206
Jun 15/2008

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

HAP ALL; AIRPLANES WITH A SIGN INSTALLED IN THE PASSENGER SERVICE UNIT (PSU)

SUBTASK 33-25-00-960-003

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

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

NOTE: These steps do not apply if a video monitor is also installed in the PSU. A different sign is used. Those instructions are given after these steps.

- (a) Lower the PSU (Passenger Service Unit (PSU) Removal, TASK 25-23-61-000-801).
- (b) Disconnect the electrical connectors [22].
- (c) Loosen the fasteners [23] from the light assembly.
- (d) Replace the light assembly [21].
- (e) Tighten the fasteners [23].
- (f) Connect the electrical connectors [22].
- (g) Close the PSU (Passenger Service Unit (PSU) Installation, TASK 25-23-61-400-801).

HAP ALL; AIRPLANES WITH A SIGN INSTALLED IN THE PASSENGER SERVICE UNIT (PSU) WITH A VIDEO MONITOR

SUBTASK 33-25-00-960-008

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

(4) Do these steps to replace the light assembly:

- (a) Use the slot on the side of the lens to remove it from the PSU.

NOTE: The light assembly will drop down with the lens.

- (b) Disconnect the electrical wires from the light assembly.
- (c) Lift the light assembly from the lens.
- (d) Put the new light assembly against the lens.
- (e) Connect the electrical wires to the light assembly.
- (f) Put the lens and light assembly in the PSU and push in firmly into its position.

HAP ALL; AIRPLANES WITH A SIGN INSTALLED ON A WALL

SUBTASK 33-25-00-960-004

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.

(5) Do these steps to replace the light assembly:

- (a) Pull the sign away from the wall.
- (b) Disconnect the electrical wires behind the light assembly.
- (c) Replace the light assembly.
 - 1) Make sure lamps are installed in the new light assembly.
- (d) Connect the electrical wires to the new light assembly.

EFFECTIVITY
HAP ALL

33-25-00

Page 207
Jun 15/2008

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

HAP ALL; AIRPLANES WITH A SIGN INSTALLED ON A WALL (Continued)

- (e) Push the sign back into the wall.

HAP ALL

SUBTASK 33-25-00-860-005

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
C	8	C01406	PASSENGER CABIN SIGNS FASTEN SEAT BELT RIGHT
C	9	C01405	PASSENGER CABIN SIGNS FASTEN SEAT BELT LEFT
C	10	C01408	PASSENGER CABIN SIGNS NO SMOKING RIGHT
C	11	C01407	PASSENGER CABIN SIGNS NO SMOKING LEFT

SUBTASK 33-25-00-860-006

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

HAP 001-013, 015-026, 028-030; AIRPLANES THAT USE THE NO-SMOKING SWITCH TO OPERATE THE NO-SMOKING SIGNS

SUBTASK 33-25-00-710-002

- (8) Do this test of the light assembly:
- (a) At the pilots overhead panel, P5, set the switches for the passenger signs to the on mode.
 - 1) Make sure the sign comes on correctly.
 - (b) Set the switches to the off mode.
 - 1) Make sure the sign goes off.

HAP 031-054, 101-999; AIRPLANES WITH NO-SMOKING SIGNS PERMANENTLY ILLUMINATED

SUBTASK 33-25-00-710-006

- (9) Do this test of the new light assembly:
- (a) Make sure the no-smoking symbol comes on when electrical power is supplied.
 - (b) At the pilots overhead panel, P5, set the switch for the seat belts to the on mode.

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

 - 1) Make sure the fasten-seat-belt symbol comes on.
 - (c) Set the fasten-seat-belt switch to the off mode.
 - 1) Make sure the fasten-seat-belt symbol goes off.
 - (d) Make sure the no-smoking symbol stays on.

HAP ALL

SUBTASK 33-25-00-860-007

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

————— END OF TASK —————

EFFECTIVITY
HAP ALL

D633A101-HAP

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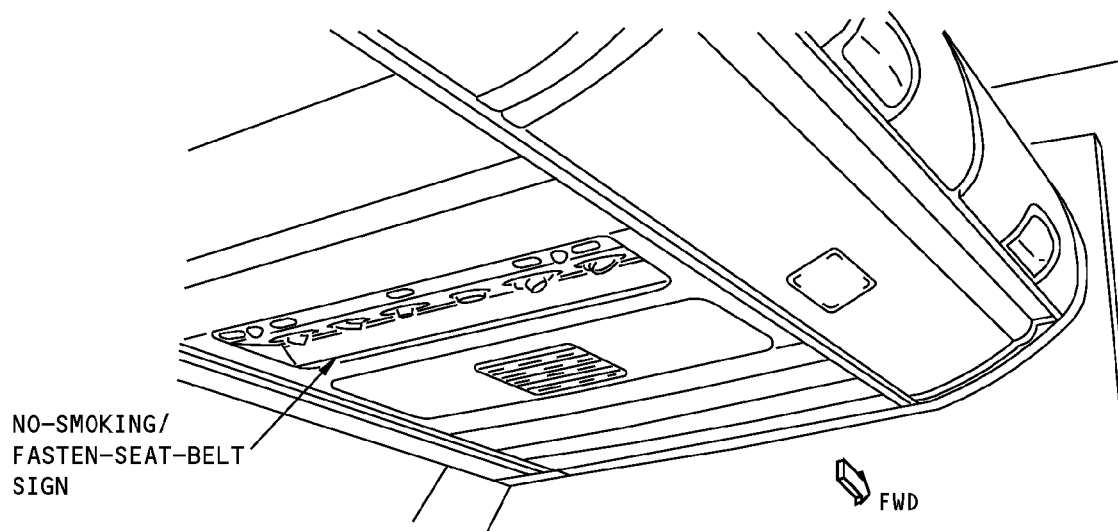
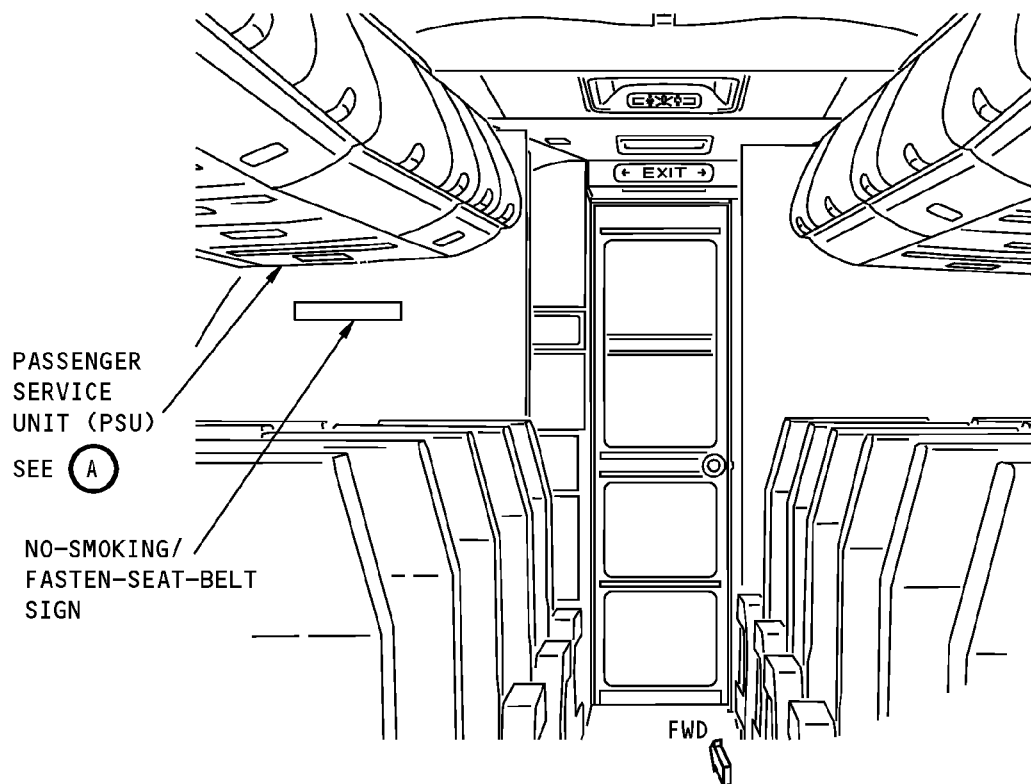
33-25-00

Page 208
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL



PASSENGER SERVICE UNIT (PSU)
(EXAMPLE)

(A)

Information Sign - Lamp Replacement
Figure 201/33-25-00-990-805

EFFECTIVITY
HAP ALL

33-25-00

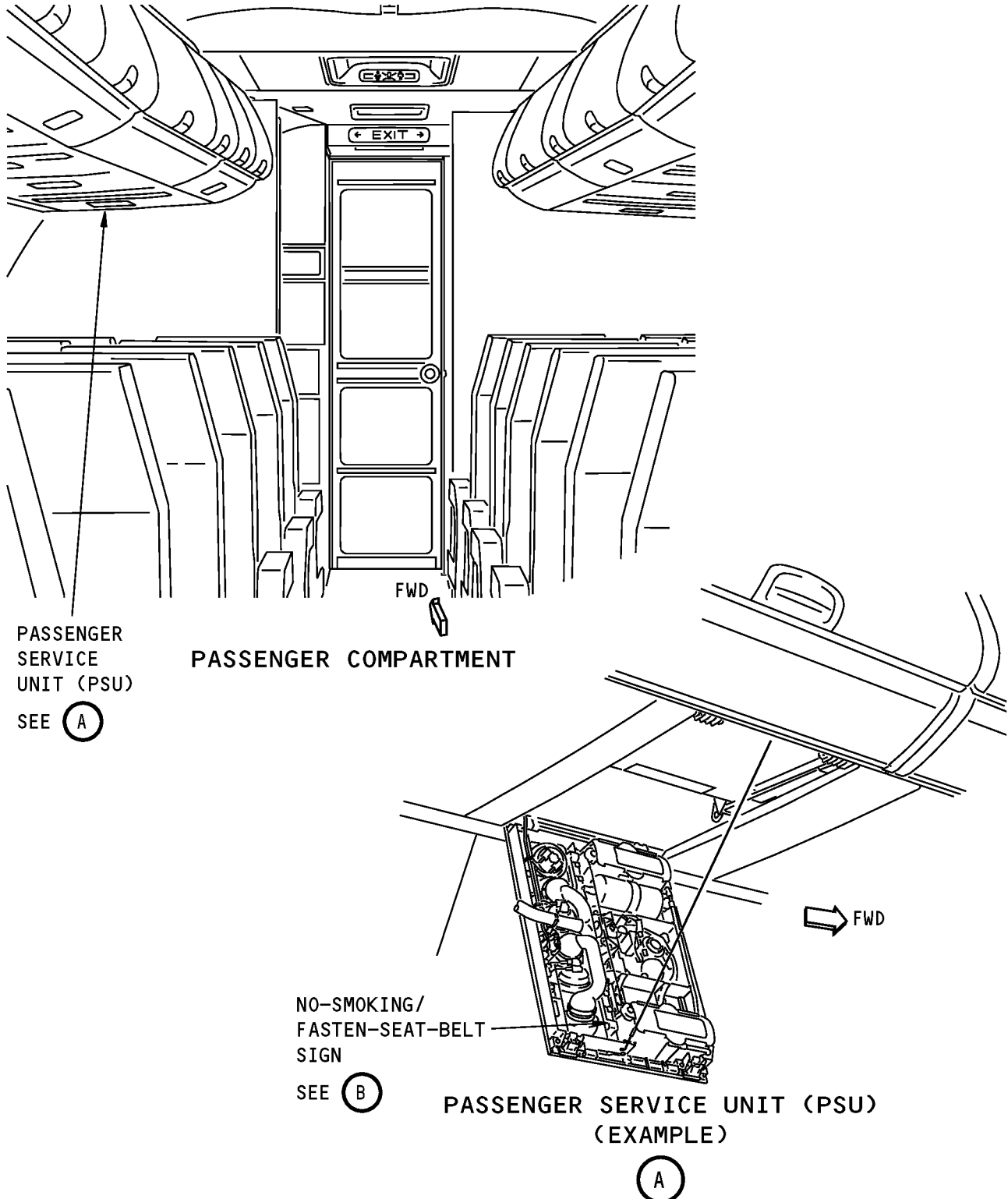
Page 209
Oct 10/2005

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL



Information Sign, No-Smoking/Fasten-Seat-Belt Sign - Light Assembly Replacement
Figure 202 (Sheet 1 of 2)/33-25-00-990-802

EFFECTIVITY
HAP ALL

D633A101-HAP

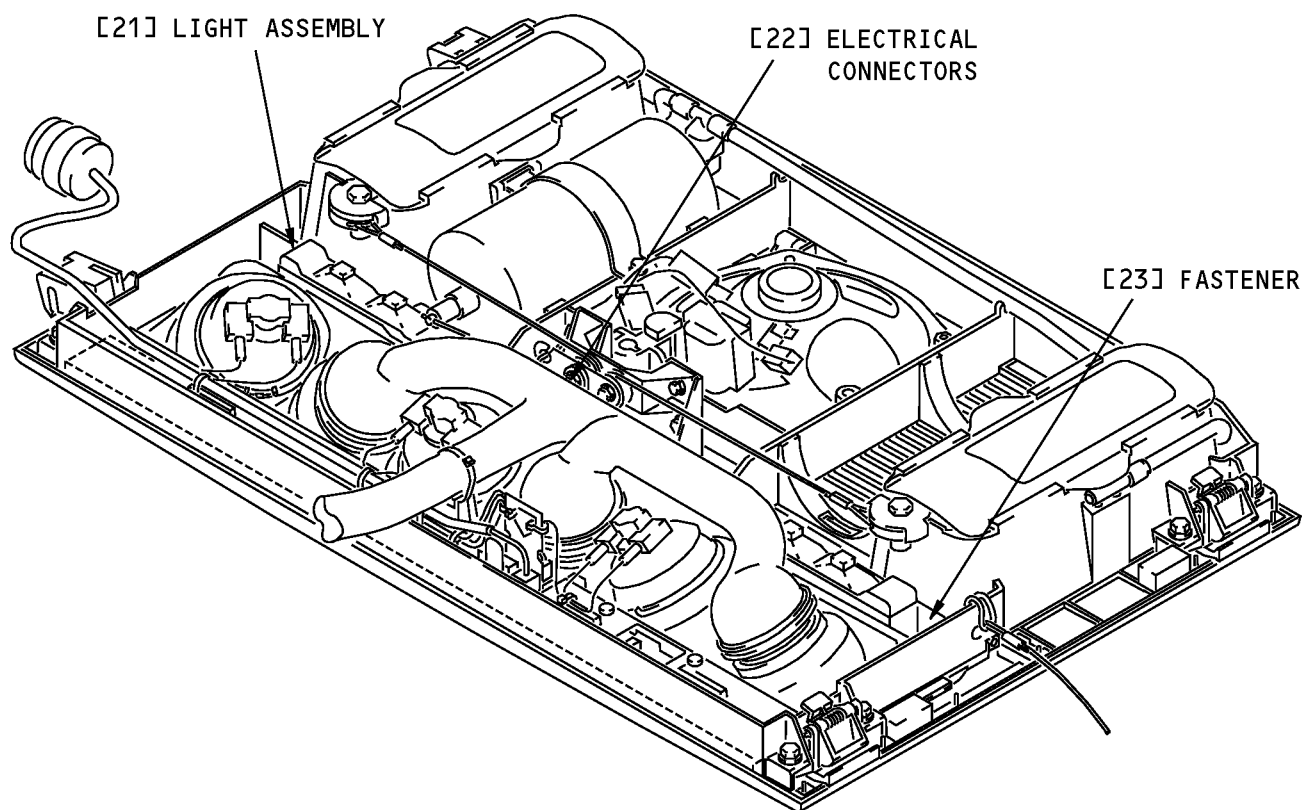
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33-25-00

Page 210
Oct 10/2005



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



NO-SMOKING/FASTEN-SEAT-BELT SIGN
(EXAMPLE)

B

Information Sign, No-Smoking/Fasten-Seat-Belt Sign - Light Assembly Replacement
Figure 202 (Sheet 2 of 2)/33-25-00-990-802

EFFECTIVITY
HAP ALL

D633A101-HAP

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33-25-00

Page 211
Oct 10/2005



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

HAP 031-054, 101-999

TASK 33-25-00-960-803

5. 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)
SSM 33-25-11	System Schematics Manual
SSM 33-25-12	System Schematics 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	PASSENGER CABIN SIGNS FASTEN SEAT BELT RIGHT
C	9	C01405	PASSENGER CABIN SIGNS FASTEN SEAT BELT LEFT

SUBTASK 33-25-00-960-005

- (2) Do these steps to replace the sign: (SSM 33-25-11) (SSM 33-25-12)
- (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.
 - (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

Row	Col	Number	Name
C	8	C01406	PASSENGER CABIN SIGNS FASTEN SEAT BELT RIGHT
C	9	C01405	PASSENGER CABIN SIGNS FASTEN SEAT BELT LEFT

EFFECTIVITY
HAP ALL

33-25-00

Page 212
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

HAP 031-054, 101-999 (Continued)

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.

————— **END OF TASK** —————

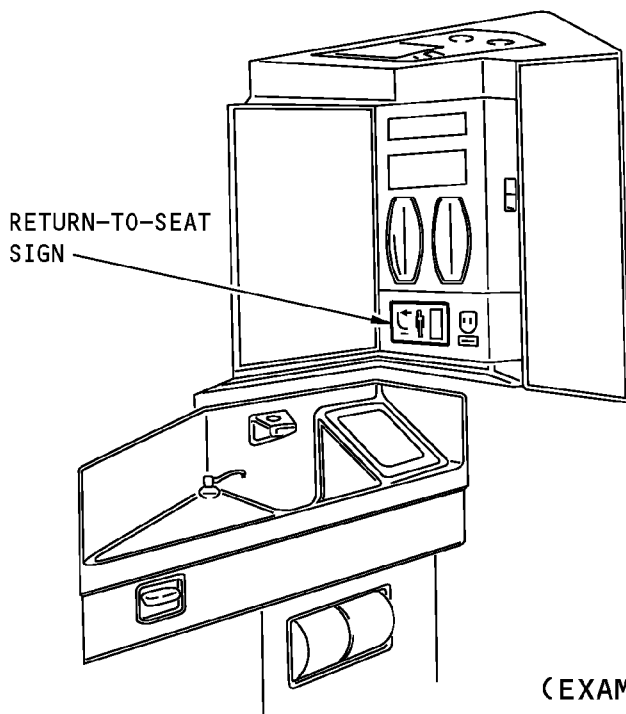
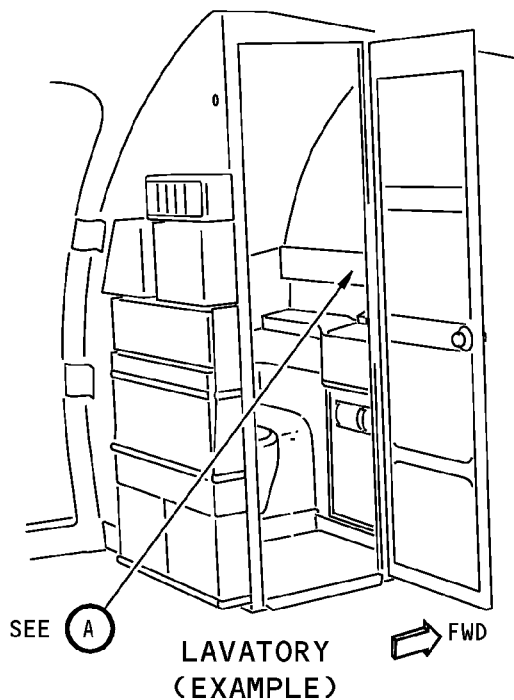
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HAP ALL

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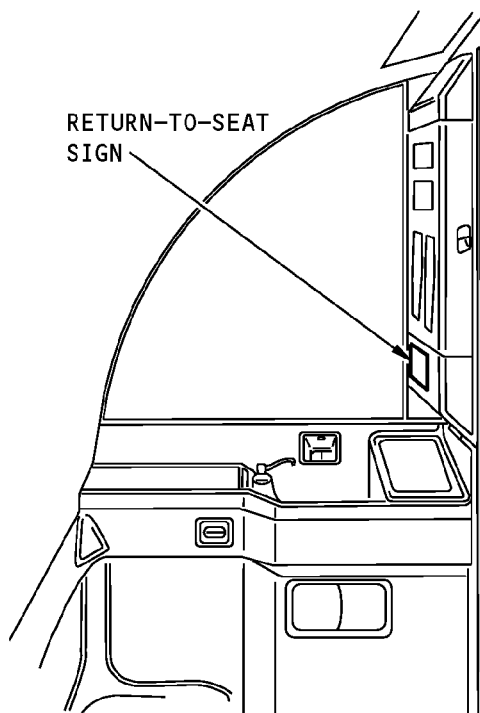
33-25-00

Page 213
Feb 15/2009



(EXAMPLE)

(A)



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

EFFECTIVITY
HAP 031-054, 101-999

D633A101-HAP

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33-25-00

Page 214
 Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

HAP 031-054, 101-999 (Continued)

HAP 001-013, 015-026, 028-030

TASK 33-25-00-960-805

6. Information Sign - Lamp Replacement for a Return-to-Seat Sign

A. References

Reference	Title
24-22-00-860-812	Remove Electrical Power (P/B 201)
SSM 33-25-11	System Schematics Manual
SSM 33-25-12	System Schematics Manual

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Procedure

SUBTASK 33-25-00-860-016

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
C	8	C01406	PASSENGER CABIN SIGNS FASTEN SEAT BELT RIGHT
C	9	C01405	PASSENGER CABIN SIGNS FASTEN SEAT BELT LEFT

SUBTASK 33-25-00-960-009

- (2) Do these steps to replace the lamp: (SSM 33-25-11) (SSM 33-25-12)

- Open the lavatory cabinet door above the sign.
- Remove the sign assembly.
 - Get access to the rear of the sign assembly.
 - Remove the screws on the sign bracket and remove the sign assembly.
- Remove the screws and remove the rear panel of the sign assembly.
- Carefully replace the lamp.
- Put the screws in position and install the rear panel of the sign assembly.
- Install the sign assembly with it's screws.
- Close the lavatory cabinet door.

SUBTASK 33-25-00-710-007

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

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
C	8	C01406	PASSENGER CABIN SIGNS FASTEN SEAT BELT RIGHT

EFFECTIVITY
HAP ALL

33-25-00

Page 215
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

HAP 001-013, 015-026, 028-030 (Continued)

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	9	C01405	PASSENGER CABIN SIGNS FASTEN SEAT BELT LEFT

- (b) At the pilots overhead panel, P5, set the switch for the seat belts to the on mode.
 - 1) Make sure the new lamp comes on.
- (c) Set the switch to the off mode.

SUBTASK 33-25-00-860-017

- (4) Remove electrical power if it is not necessary: .
 - (a) do this task: Remove Electrical Power, TASK 24-22-00-860-812

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

D633A101-HAP

33-25-00

Page 216
Jun 10/2007



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

ATTENDANT WORK LIGHTS - MAINTENANCE PRACTICES

1. General

A. This procedure has these tasks:

- (1) Attendant Work Light - Lamp Replacement
- (2) Attendant Work Light - Light Assembly Replacement

TASK 33-26-01-960-801

2. Attendant Work 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)
SSM 33-26-11	System Schematics Manual

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Procedure

SUBTASK 33-26-01-860-010

- (1) At the adjacent attendant panel, make sure the switch for the attendant work light is set to the off mode (SSM 33-26-11).

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

SUBTASK 33-26-01-710-001

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

- (a) At the adjacent attendant panel, set the switch for the attendant work light to the on mode.
 - 1) Make sure the light comes on.
- (b) Set the switch to the off mode.
 - 1) Make sure the light goes off.

SUBTASK 33-26-01-860-002

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

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

D633A101-HAP

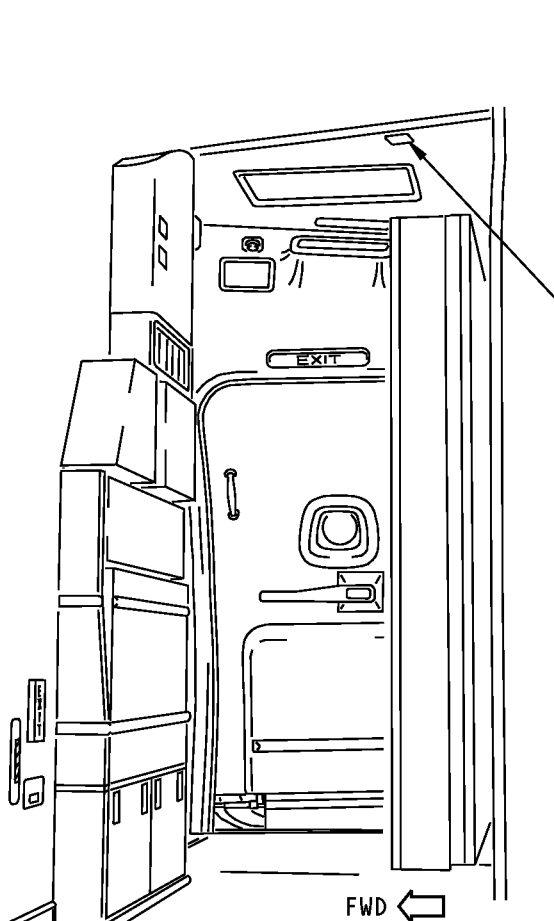
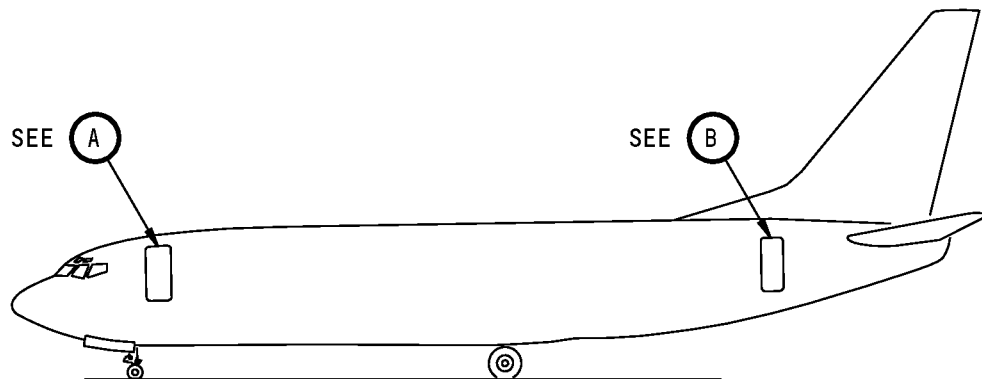
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33-26-01

Page 201
Feb 10/2004

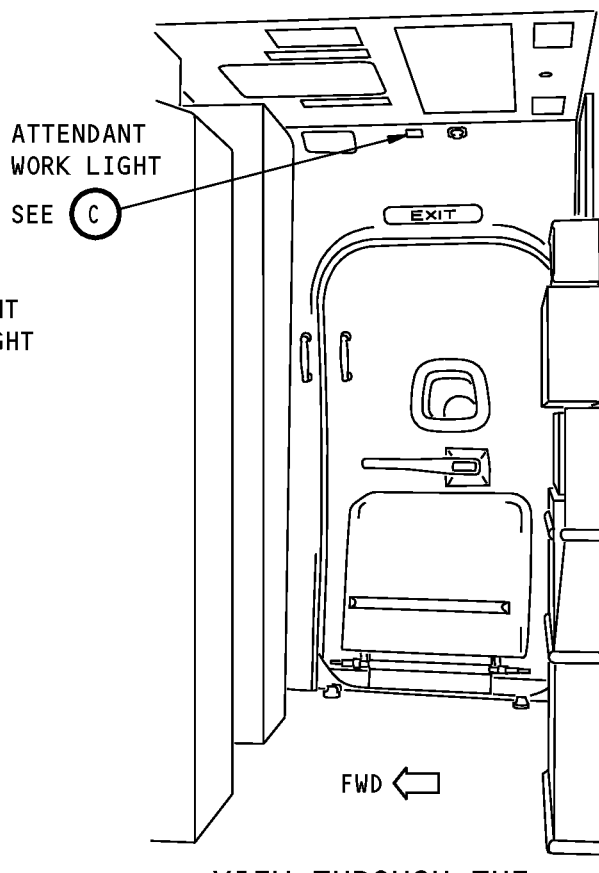


737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL



VIEW THROUGH THE
FORWARD PASSENGER DOOR

(A)



VIEW THROUGH THE
AFT PASSENGER DOOR
(RIGHT SIDE IS SHOWN,
LEFT SIDE IS OPPOSITE)

(B)

Attendant Work Light - Lamp Replacement
Figure 201 (Sheet 1 of 2)/33-26-01-990-801

EFFECTIVITY
HAP ALL

D633A101-HAP

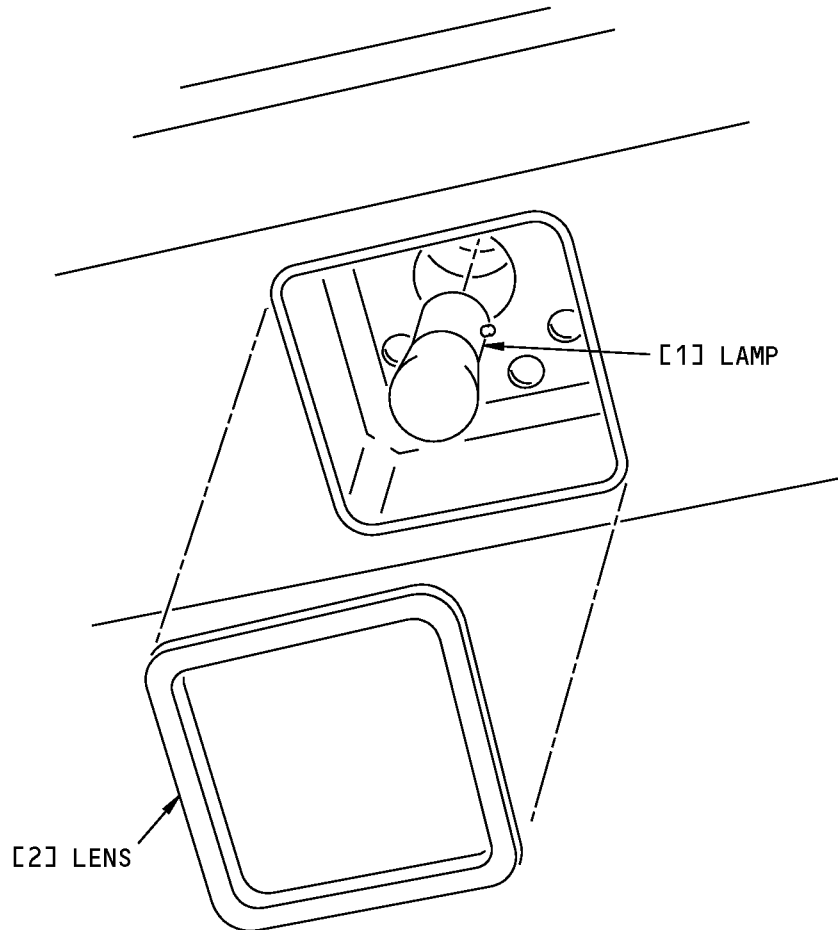
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33-26-01

Page 202
Oct 10/2003



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



ATTENDANT WORK LIGHT
(EXAMPLE)



Attendant Work Light - Lamp Replacement
Figure 201 (Sheet 2 of 2)/33-26-01-990-801

EFFECTIVITY
HAP ALL

D633A101-HAP

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33-26-01

Page 203
Oct 10/2003



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-26-01-960-802

3. Attendant Work 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)
SSM 33-26-11	System Schematics Manual

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. 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 & THRSH LT

SUBTASK 33-26-01-860-004

- (2) Get access to the back of the light assembly. (SSM 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 & THRSH LT

SUBTASK 33-26-01-860-006

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

EFFECTIVITY
HAP ALL

D633A101-HAP

33-26-01

Page 204
Feb 10/2004



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 33-26-01-710-002

(7) Do a test of the new light:

- (a) At the adjacent attendant panel, set the switch for the attendant work light to the on mode.
 - 1) Make sure the light comes on.
- (b) Set the switch to the off mode.
 - 1) Make sure the light goes off.

SUBTASK 33-26-01-860-007

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

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

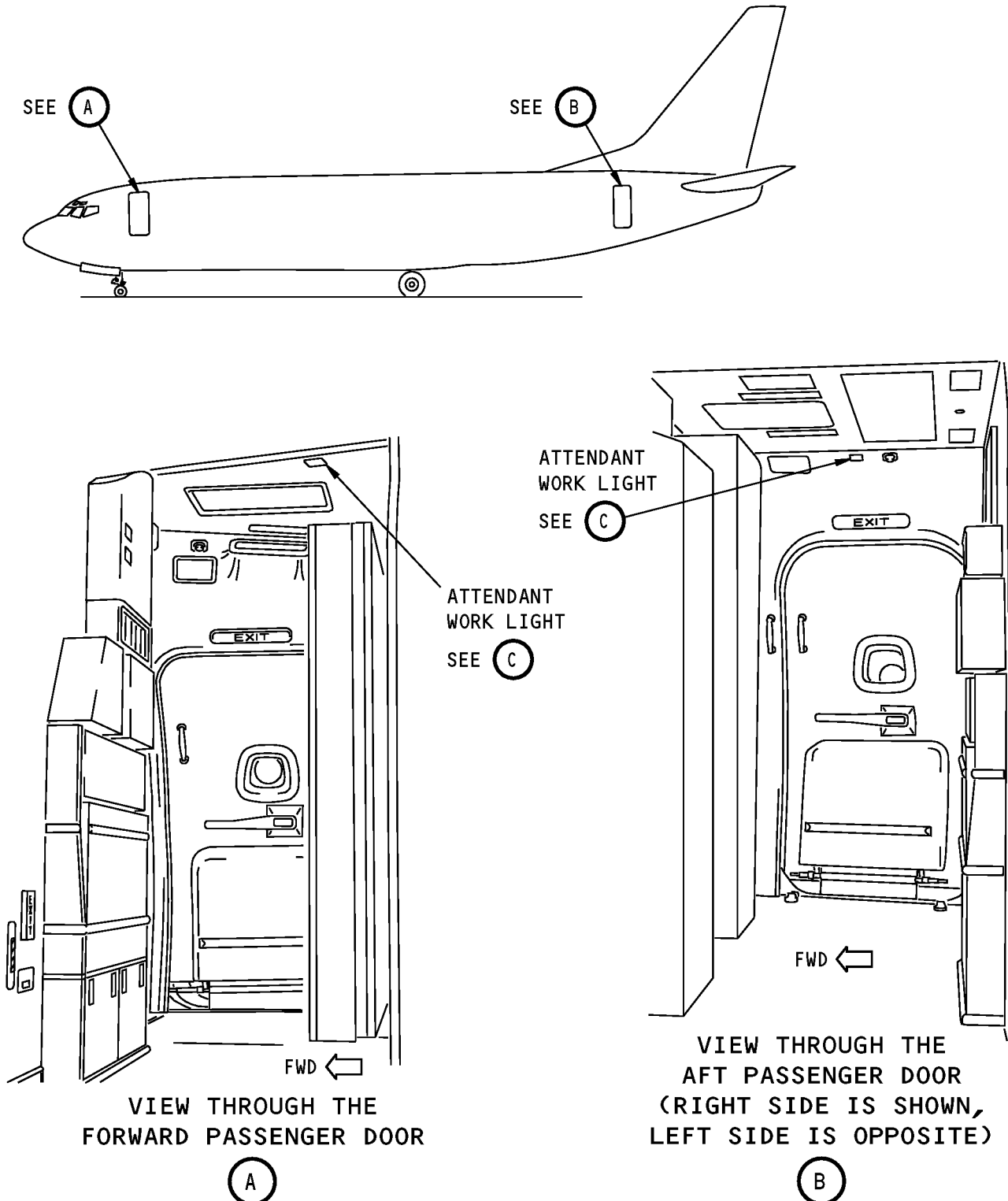
D633A101-HAP

33-26-01

Page 205
Oct 10/2003



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



Attendant Work Light - Light Assembly Replacement
Figure 202 (Sheet 1 of 2)/33-26-01-990-802

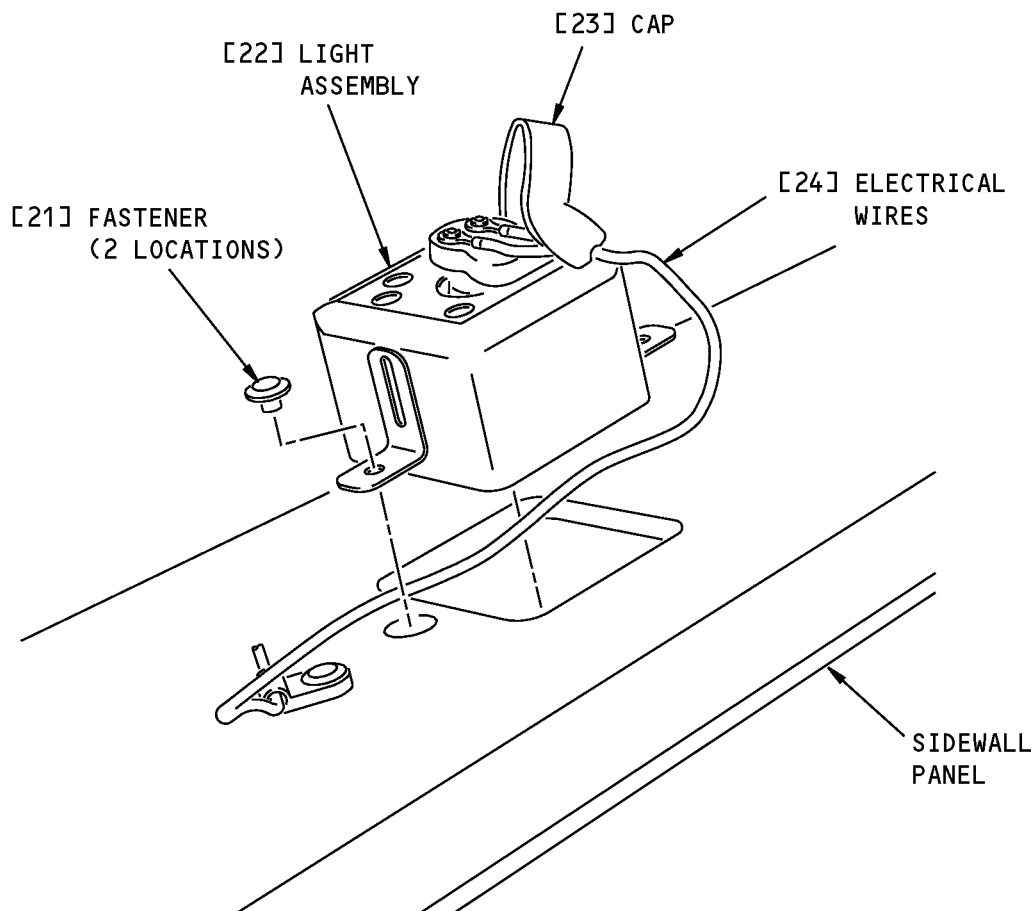
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33-26-01

Page 206
Oct 10/2003



**ATTENDANT WORK LIGHT
 (EXAMPLE)**

C

Attendant Work Light - Light Assembly Replacement
Figure 202 (Sheet 2 of 2)/33-26-01-990-802

EFFECTIVITY
HAP ALL

D633A101-HAP

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33-26-01

Page 207
 Oct 10/2003



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

GALLEY LIGHTS - MAINTENANCE PRACTICES

1. General

A. This procedure has these tasks:

- (1) Galley Light - Lamp Replacement
- (2) Galley Light - Ballast Replacement

TASK 33-26-02-960-801

2. Galley 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)
SSM 33-26-21	System Schematics 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. (SSM 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.

EFFECTIVITY
HAP ALL

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33-26-02

Page 201
Feb 10/2004



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

SUBTASK 33-26-02-860-003

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

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

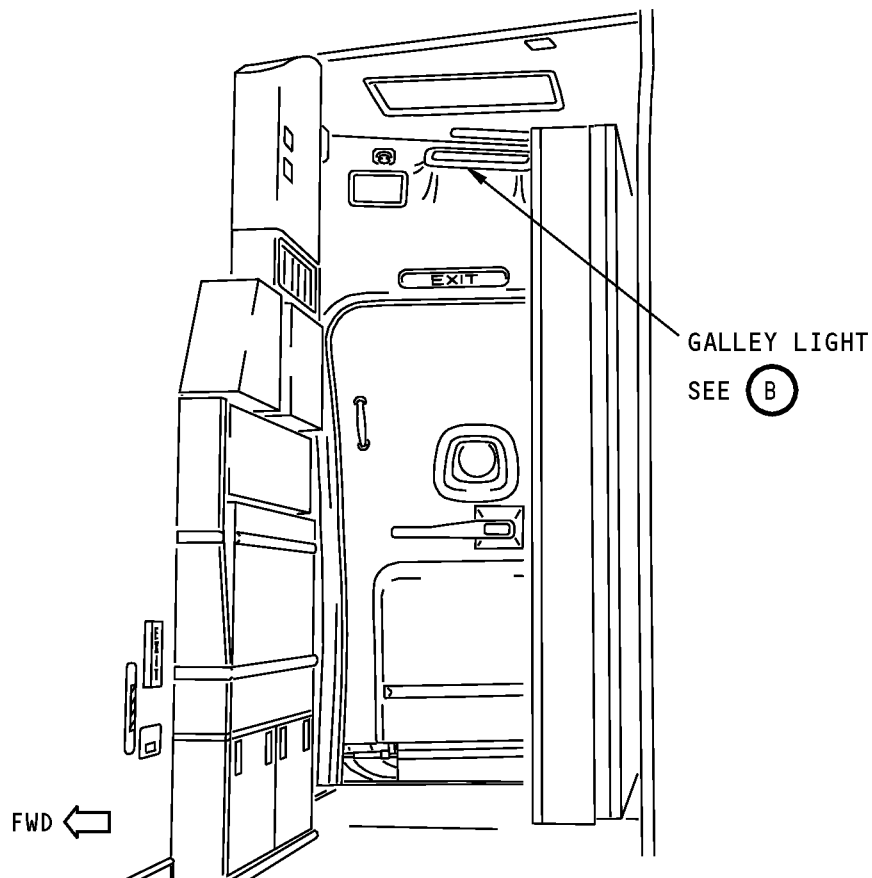
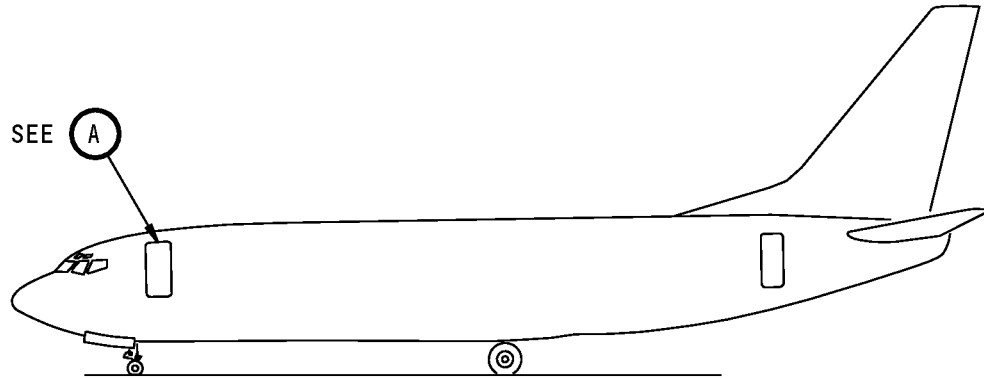
D633A101-HAP

33-26-02

Page 202
Oct 10/2003



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



VIEW THROUGH THE
FORWARD PASSENGER DOOR

A

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

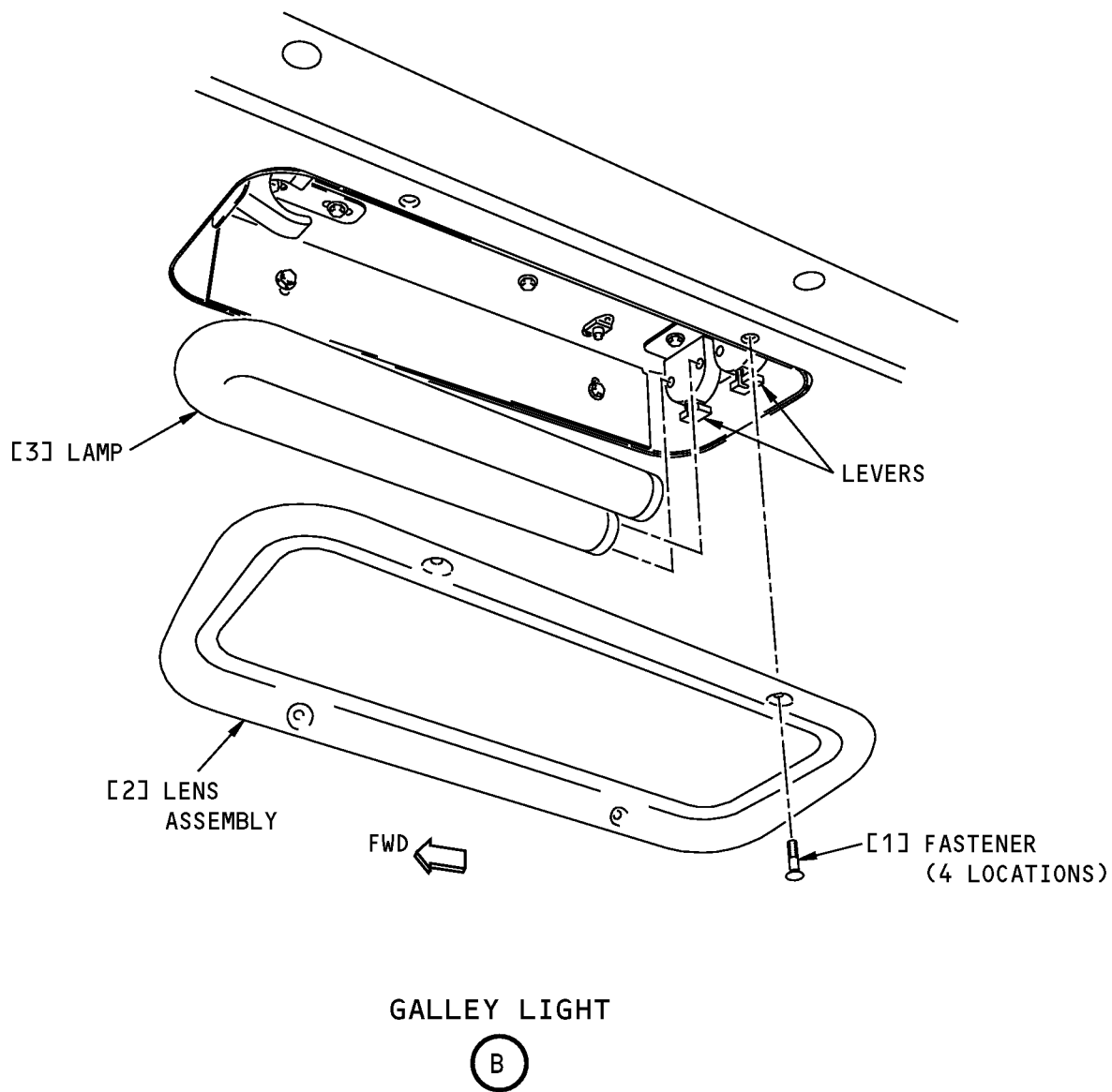
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33-26-02

Page 203
Oct 10/2003



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

EFFECTIVITY
HAP ALL

D633A101-HAP

33-26-02

Page 204
Oct 10/2003



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-26-02-960-802

3. 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)
SSM 33-26-21	System Schematics Manual

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. 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 LT

SUBTASK 33-26-02-010-001

- (2) Remove the galley light for access to the ballast (SSM 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 [24] in the housing.
- (c) Install the lamp [3].
- (d) Install the lens assembly [2] and tighten the fasteners [1].

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HAP ALL

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33-26-02

Page 205
Feb 10/2004



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

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 LT

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.

————— **END OF TASK** —————

EFFECTIVITY
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D633A101-HAP

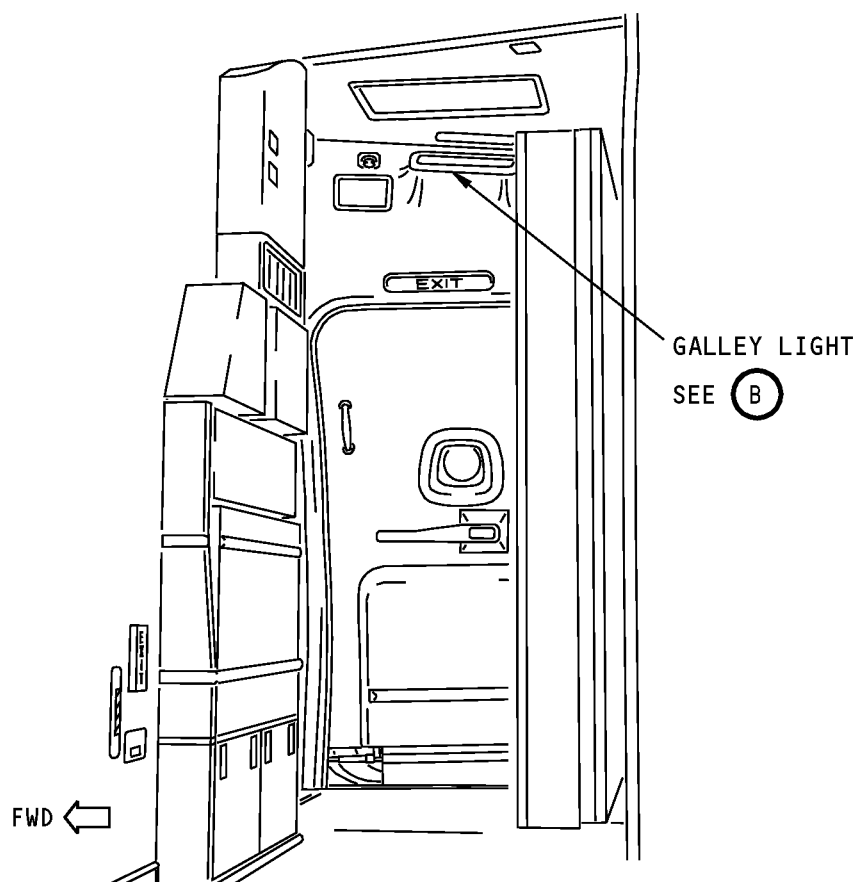
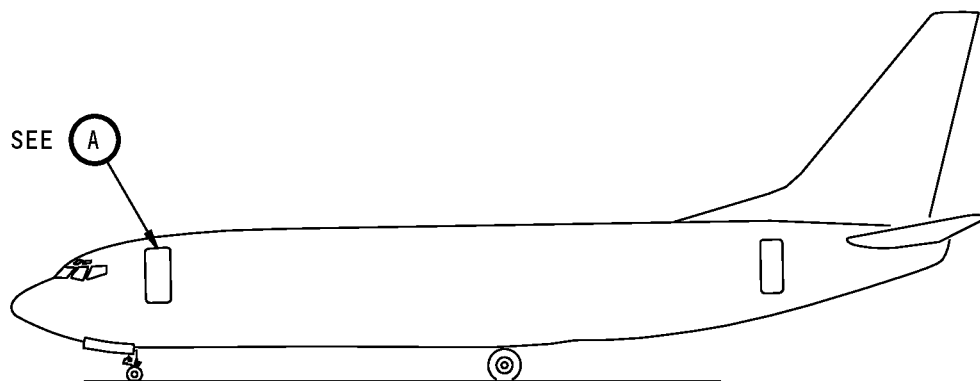
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33-26-02

Page 206
Oct 10/2003



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



VIEW THROUGH THE
FORWARD PASSENGER DOOR

(A)

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

EFFECTIVITY
HAP ALL

D633A101-HAP

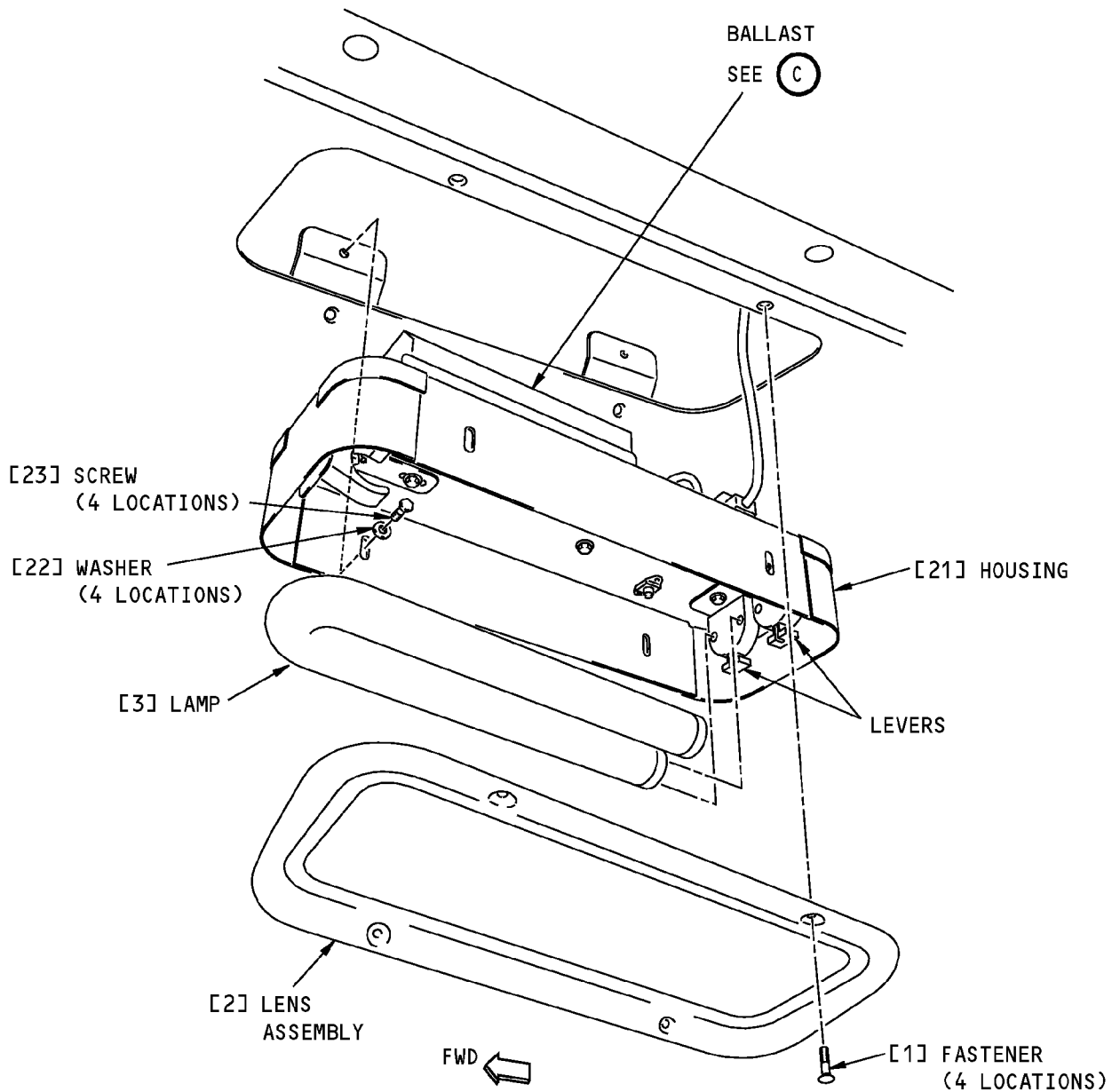
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33-26-02

Page 207
Oct 10/2003



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



GALLEY LIGHT

(B)

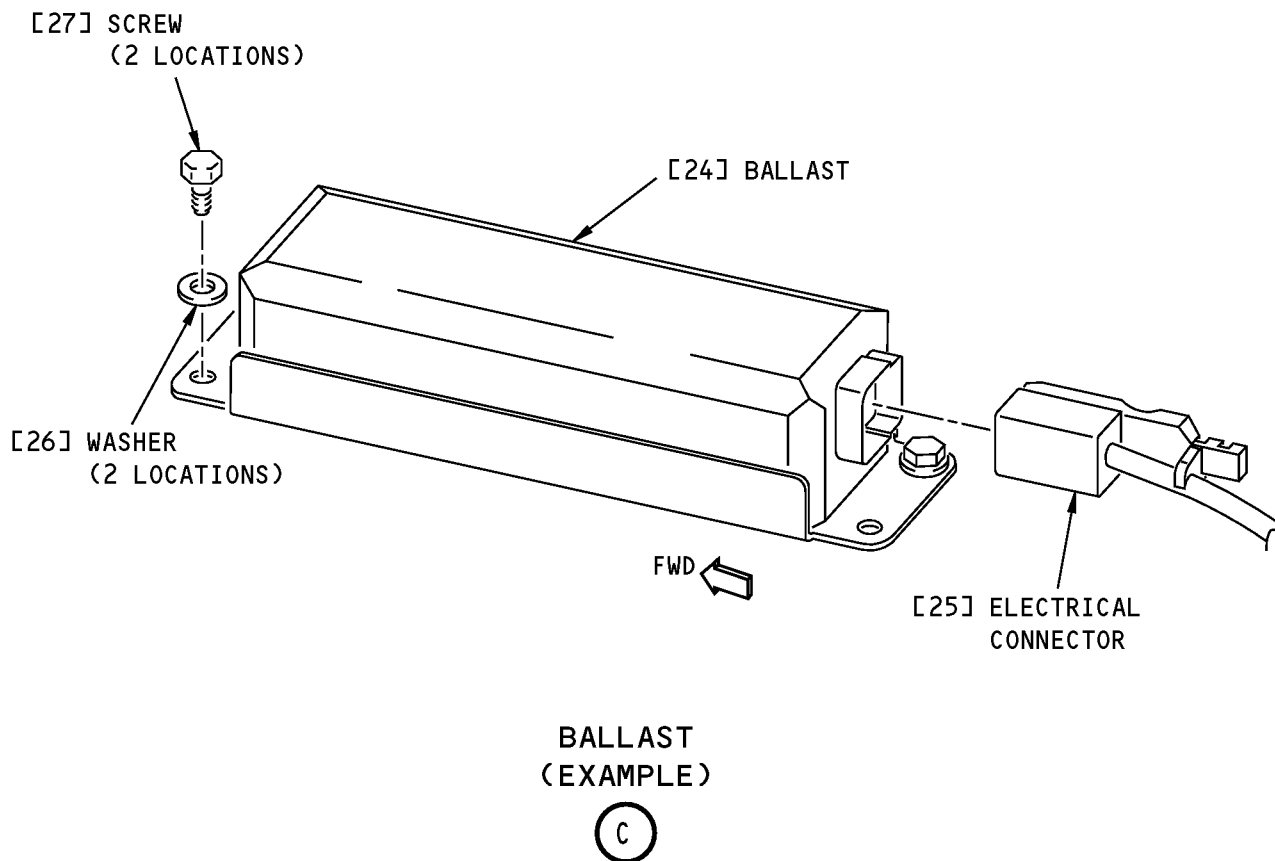
Galley Light - Ballast Replacement
Figure 202 (Sheet 2 of 3)/33-26-02-990-802

EFFECTIVITY
HAP ALL

33-26-02

Page 208
Oct 10/2003

D633A101-HAP



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

EFFECTIVITY
HAP ALL

D633A101-HAP

33-26-02

Page 209
Oct 10/2003



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

LAVATORY LIGHTS AND SIGNS - MAINTENANCE PRACTICES

1. General

A. This procedure has these tasks:

- (1) Lavatory Light - Lamp Replacement
- (2) Lavatory Light - Ballast Replacement
- (3) Lavatory-Occupied Sign - Light Assembly Replacement
- (4) Lavatory Door Switch - Adjustment/Replacement

TASK 33-26-03-960-801

2. Lavatory 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)
SSM 33-26-31	System Schematics 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	9	C01217	PASSENGER CABIN SIGNS LAVATORY OCCUPIED SIGN
E	14	C00163	LAVATORY MIRROR LIGHT

SUBTASK 33-26-03-960-002

- (2) Do these steps to replace the lamp: (SSM 33-26-31)
 - (a) Pull the lens [1] away from the mirror light assembly.
 - (b) Replace the applicable lamp, [2], [3], [4], or [5].

SUBTASK 33-26-03-860-002

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
A	8	C01403	PASSENGER CABIN PASS CALL LEFT
D	9	C01217	PASSENGER CABIN SIGNS LAVATORY OCCUPIED SIGN

EFFECTIVITY
HAP ALL

33-26-03

Page 201
Jun 10/2005

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
E	14	C00163	LAVATORY MIRROR LIGHT

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** —————

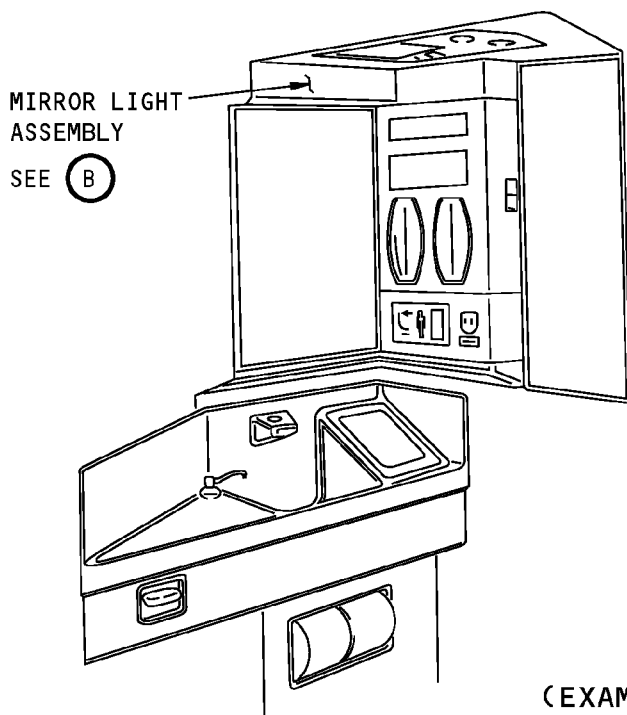
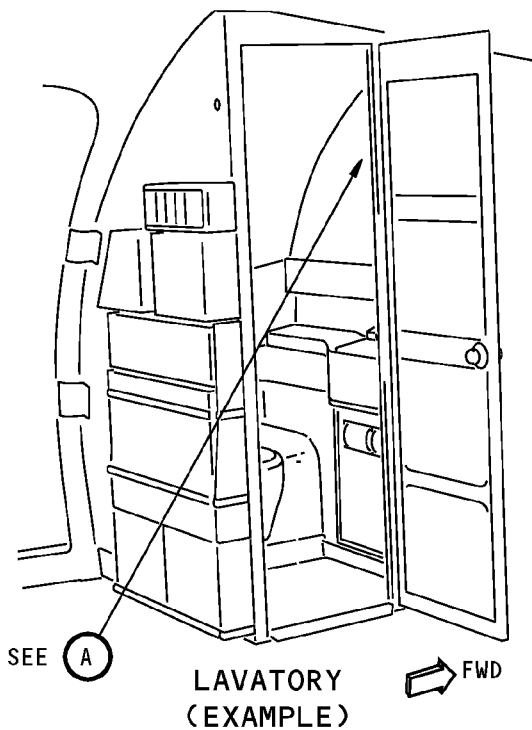
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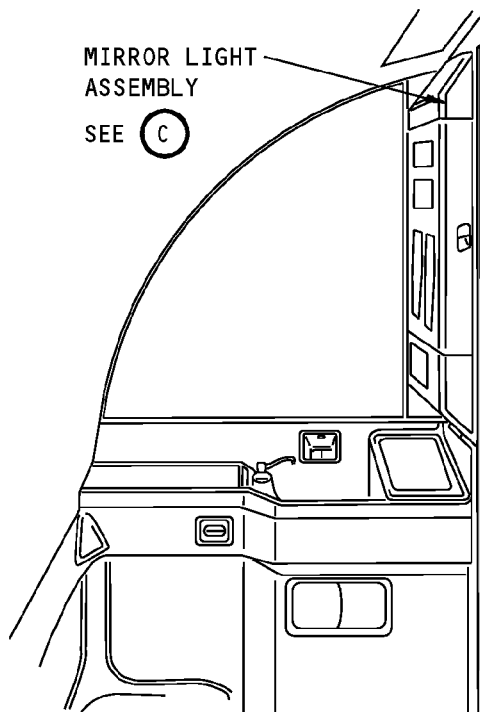
33-26-03

Page 202
Jun 10/2005



(EXAMPLE)

(A)



Lavatory Light - Lamp Replacement
Figure 201 (Sheet 1 of 3)/33-26-03-990-801

EFFECTIVITY
HAP ALL

D633A101-HAP

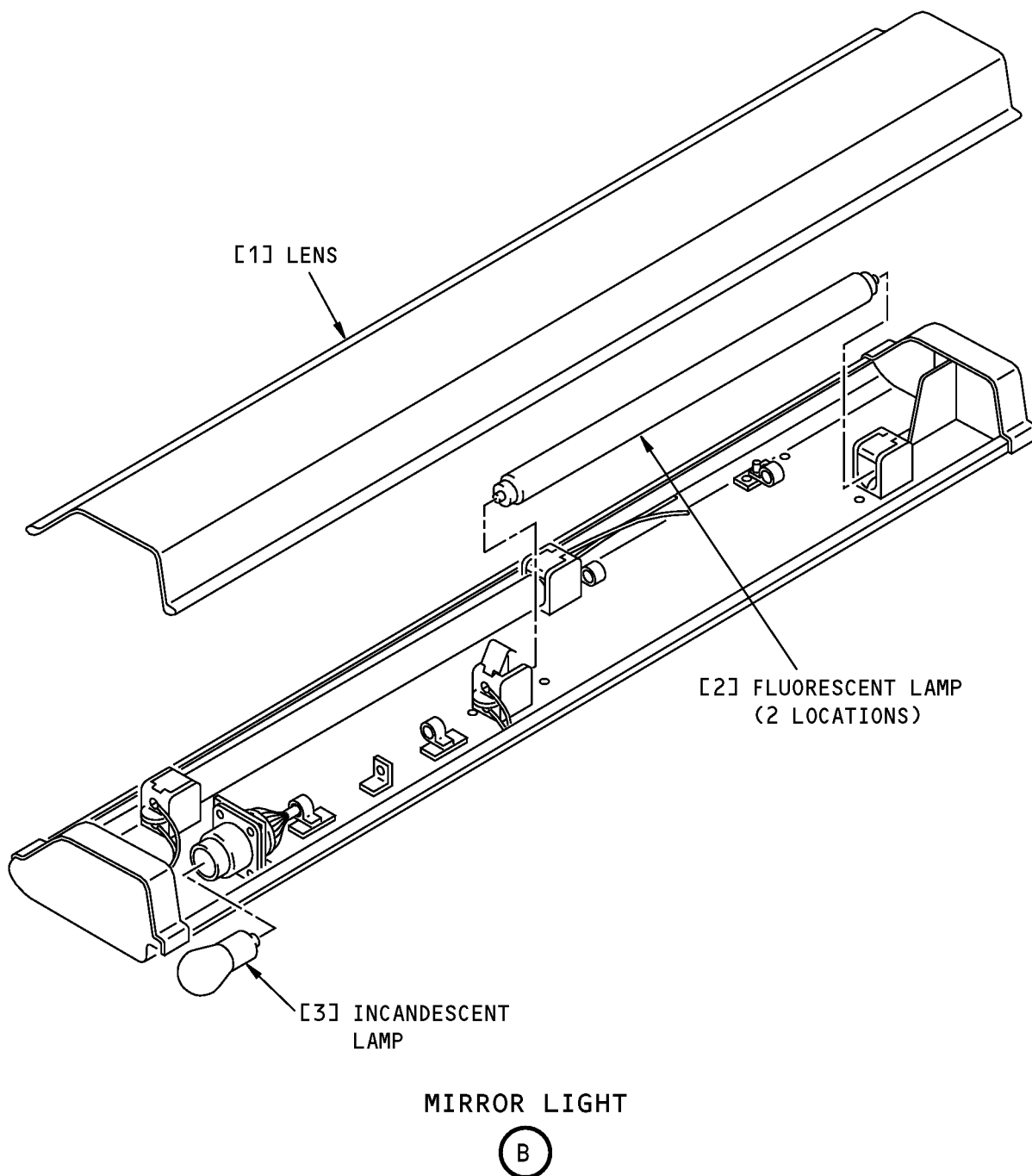
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33-26-03

Page 203
Oct 10/2003



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



Lavatory Light - Lamp Replacement
Figure 201 (Sheet 2 of 3)/33-26-03-990-801

EFFECTIVITY
HAP ALL

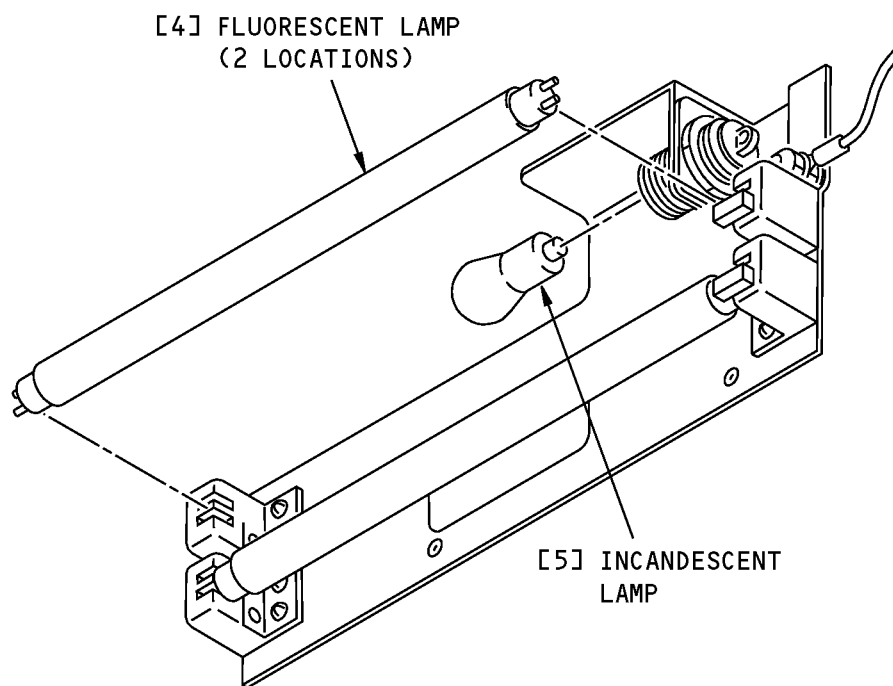
33-26-03

Page 204
Oct 10/2003

D633A101-HAP



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



MIRROR LIGHT



Lavatory Light - Lamp Replacement
Figure 201 (Sheet 3 of 3)/33-26-03-990-801

EFFECTIVITY
HAP ALL

D633A101-HAP

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33-26-03

Page 205
Oct 10/2003



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-26-03-960-802

3. Lavatory 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)
SSM 33-26-31	System Schematics 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	C00163	LAVATORY MIRROR LIGHT

SUBTASK 33-26-03-010-001

- (2) Lower the lavatory ceiling panel. (SSM 33-26-31)

SUBTASK 33-26-03-960-003

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

- Disconnect the electrical connector [23].
- Remove the screws [21] and washers [24].
- Replace the ballast [22].
- Install the washers [24] and screws [21].
- Connect the electrical connector [23].

SUBTASK 33-26-03-860-004

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
E	14	C00163	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.

- Make sure the fluorescent lavatory lights come on.

EFFECTIVITY
HAP ALL

33-26-03

Page 206
Feb 10/2004

D633A101-HAP



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

SUBTASK 33-26-03-860-012

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

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

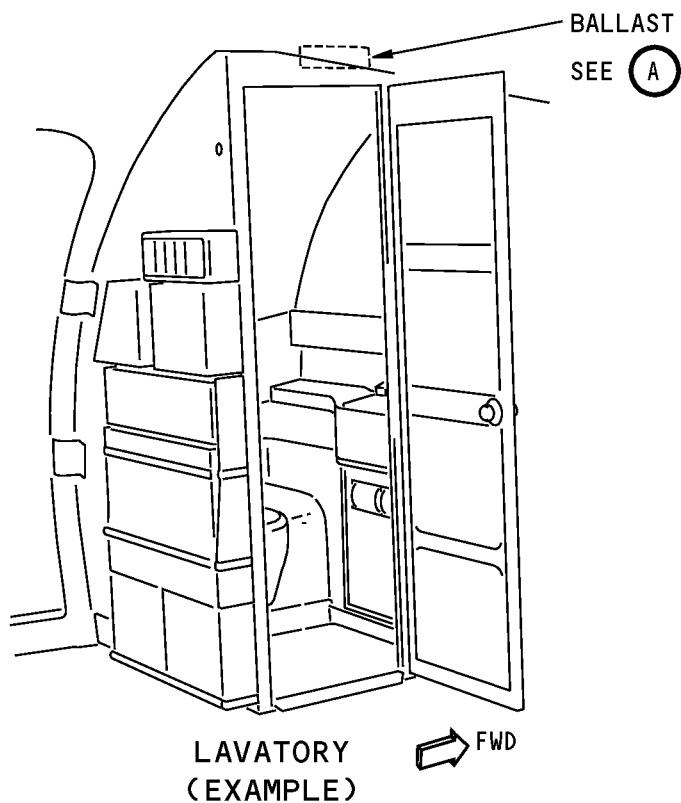
D633A101-HAP

33-26-03

Page 207
Oct 10/2003



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



Lavatory Light - Ballast Replacement
Figure 202 (Sheet 1 of 2)/33-26-03-990-802

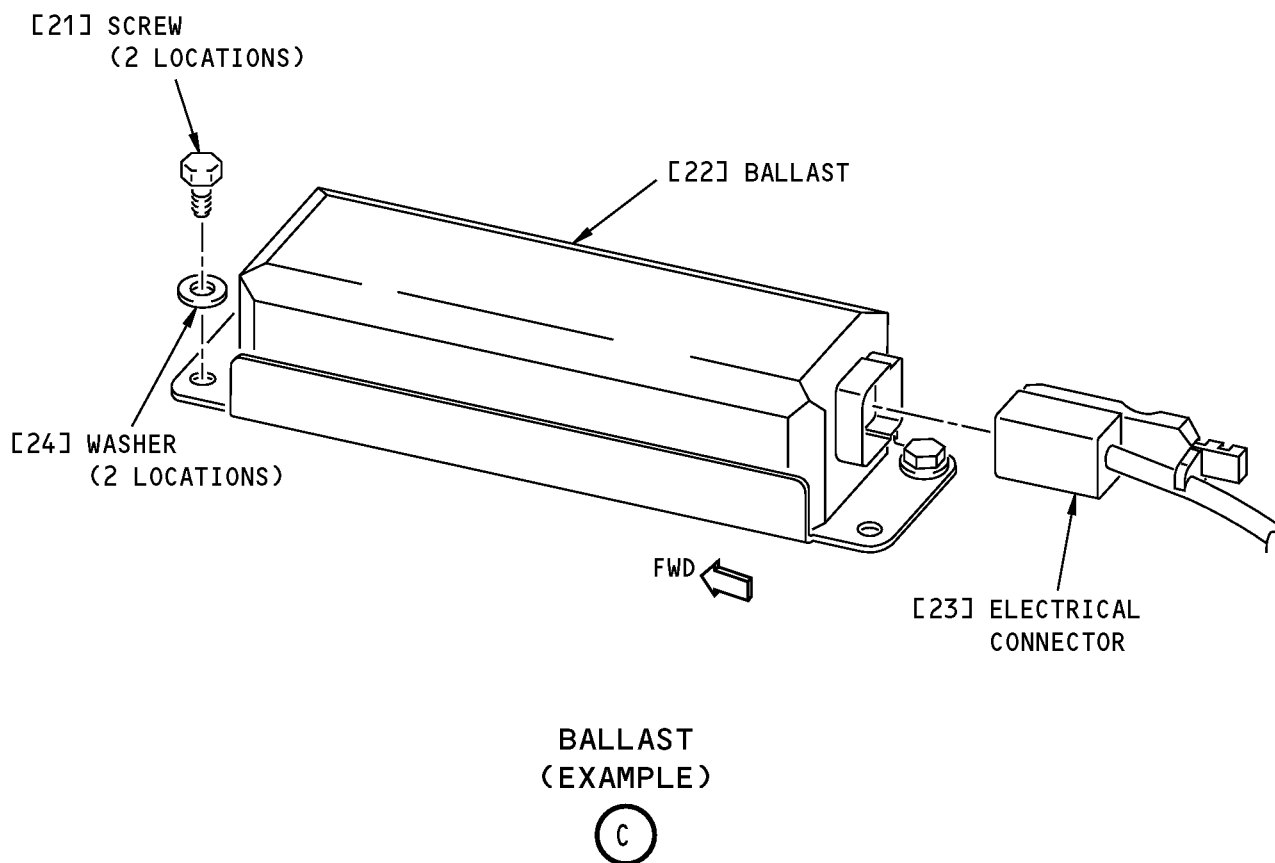
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D633A101-HAP

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33-26-03

Page 208
Oct 10/2003



Lavatory Light - Ballast Replacement
Figure 202 (Sheet 2 of 2)/33-26-03-990-802

EFFECTIVITY
HAP ALL

D633A101-HAP

33-26-03

Page 209
Oct 10/2003



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-26-03-960-803

4. Lavatory-Occupied Sign - 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)
SSM 33-26-31	System Schematics Manual

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	9	C01217	PASSENGER CABIN SIGNS LAVATORY OCCUPIED SIGN

SUBTASK 33-26-03-010-003

- (2) Lower the recessed ceiling panel. (SSM 33-26-31)

SUBTASK 33-26-03-960-001

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

- Disconnect the electrical connector [42].
- From the bottom of the panel, push the sign [41] out of the recessed ceiling panel.
- Loosen the screw [43] and pull the electrical wire through the strap [44] on the recessed ceiling panel.
- From the top of the panel, put the new sign [41] in the recessed ceiling panel.
- Put the electrical wire through the strap [44] and tighten the screw [43].
- Connect the electrical connector [42].

SUBTASK 33-26-03-010-004

- (4) Close the recessed ceiling panel.

SUBTASK 33-26-03-860-006

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
D	9	C01217	PASSENGER CABIN SIGNS LAVATORY OCCUPIED SIGN

SUBTASK 33-26-03-860-007

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

EFFECTIVITY
HAP ALL

33-26-03

Page 210
Oct 10/2005

D633A101-HAP



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

SUBTASK 33-26-03-710-001

(7) Do a test of the new sign:

(a) Make sure the lavatory symbol comes on and the occupied symbol stays off.

NOTE: The lavatory symbol is energized when electrical power is supplied to the airplane.

(b) Close and lock the lavatory door.

1) Make sure the occupied symbol comes on.

(c) Unlock and open the lavatory door.

1) Make sure the occupied symbol goes off and the lavatory symbol stays on.

SUBTASK 33-26-03-860-008

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

END OF TASK

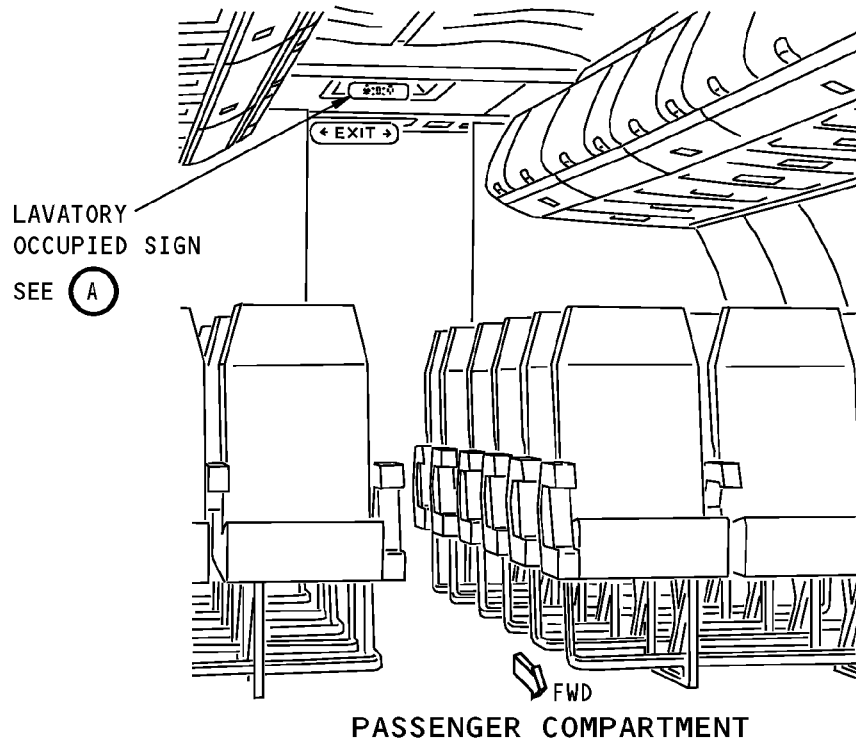
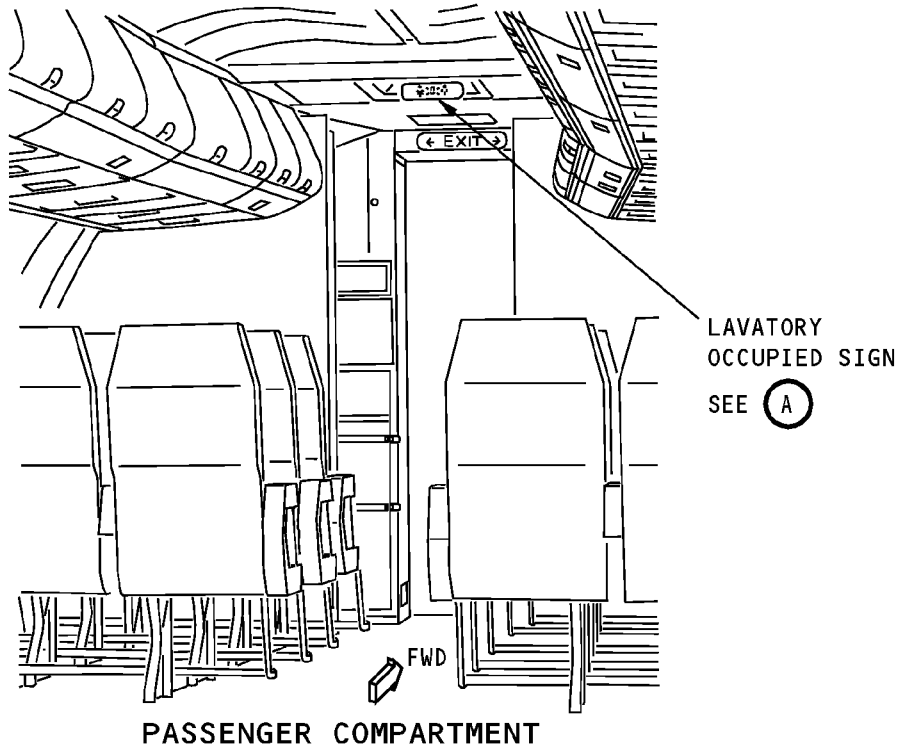
EFFECTIVITY
HAP ALL

D633A101-HAP

33-26-03

Page 211
Oct 10/2005

AIRCRAFT MAINTENANCE MANUAL



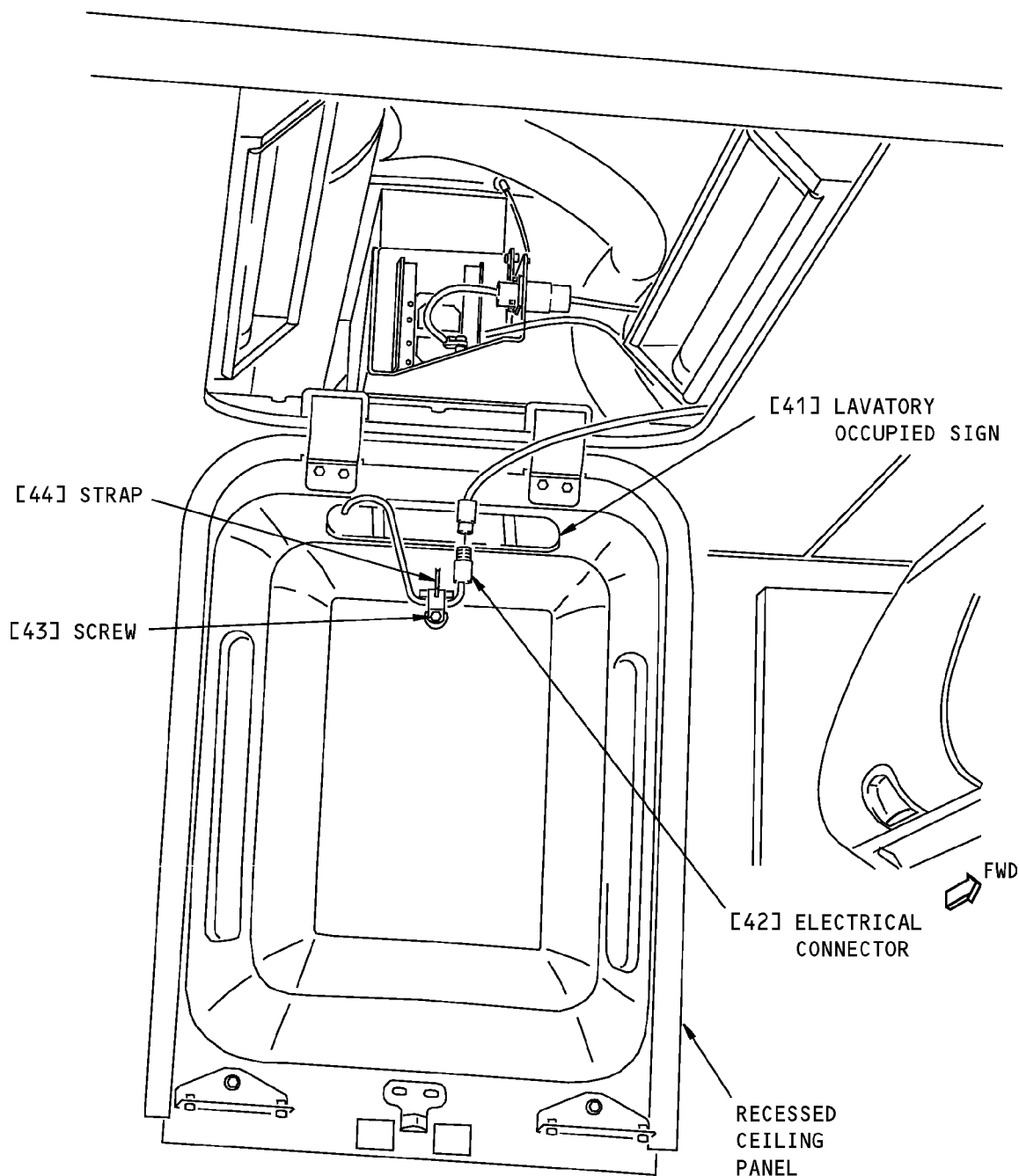
Lavatory Occupied Sign - Light Assembly Replacement
Figure 203 (Sheet 1 of 2)/33-26-03-990-803

EFFECTIVITY
HAP ALL

33-26-03

Page 212
Oct 10/2003

D633A101-HAP



LAVATORY OCCUPIED SIGN
(EXAMPLE)

A

Lavatory Occupied Sign - Light Assembly Replacement
Figure 203 (Sheet 2 of 2)/33-26-03-990-803

EFFECTIVITY
HAP ALL

33-26-03

Page 213
Oct 10/2003

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-26-03-960-804

5. Lavatory Door Switch - Adjustment/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)
SSM 33-26-31	System Schematics Manual

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Procedure

SSM 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 this circuit breaker and install safety tag:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
D	9	C01217	PASSENGER CABIN SIGNS LAVATORY OCCUPIED SIGN

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.

HAP 001-013, 015-026, 028-030

- (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: Use a small screwdriver or any appropriate tool that will move the Lever Assembly towards the microswitch.

HAP 031-054, 101-999

- (d) 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.

EFFECTIVITY
HAP ALL

33-26-03

Page 214
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

HAP 031-054, 101-999 (Continued)

- 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.

NOTE: Refer to the lavatory CMM for further detailed information.

HAP ALL

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

SUBTASK 33-26-03-860-014

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

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	9	C01217	PASSENGER CABIN SIGNS LAVATORY OCCUPIED SIGN

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) Supply electrical power:Supply Electrical Power, TASK 24-22-00-860-811.

SUBTASK 33-26-03-710-004

- (8) Repeat the test of the switch:SUBTASK 33-20-00-710-010-001

SUBTASK 33-26-03-860-016

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

————— **END OF TASK** —————

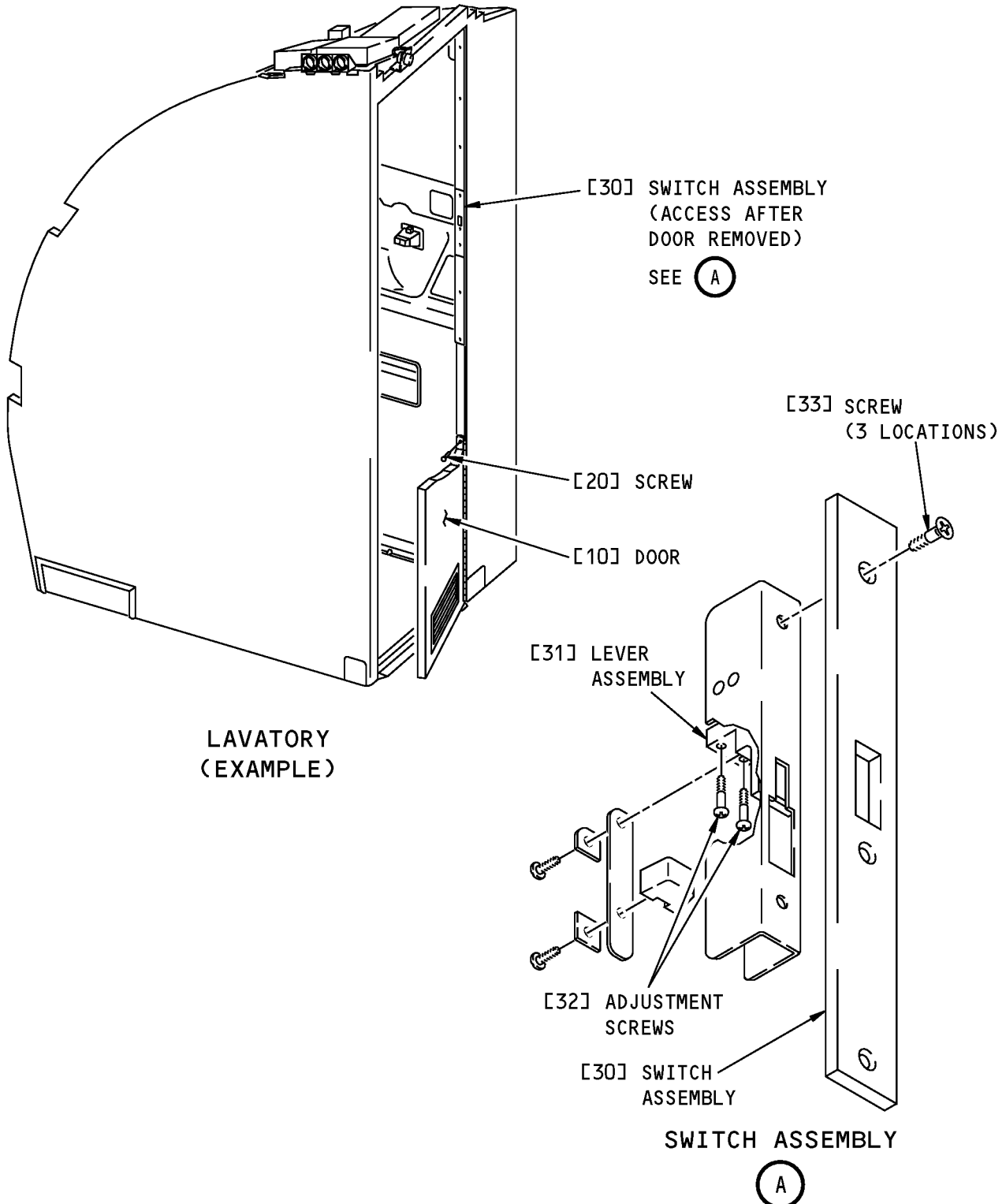
EFFECTIVITY
HAP ALL

33-26-03

Page 215
Feb 15/2009

D633A101-HAP

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



LAVATORY DOOR SWITCH - ADJUSTMENT/REPLACEMENT
Figure 204/33-26-03-990-804

EFFECTIVITY
HAP ALL

D633A101-HAP

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33-26-03

Page 216
Jun 10/2005



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

PASSENGER AND LAVATORY CALL LIGHTS - MAINTENANCE PRACTICES

1. General

A. This procedure has these tasks:

- (1) Passenger Call Light - PSU Light/Switch Replacement
- (2) Lavatory Call Light - Light/Switch Replacement
- (3) Passenger Call Light - Fuse Replacement
 - (a) To replace the fuse for the passenger call light, do this task: Reading Light - PSU Circuit Board Fuse Replacement, TASK 33-23-00-960-803.

TASK 33-27-00-960-801

2. Passenger Call Light - PSU Light/Switch Replacement

(Figure 201)

A. References

Reference	Title
33-20-00-710-801-001	Passenger Compartment Lights - Operational Test (P/B 501)
33-23-00-820-801	Reading Light - PSU Circuit Board Replacement (P/B 201)
33-23-00-960-803	Reading Light - PSU Circuit Board Fuse Replacement (P/B 201)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Procedure

SUBTASK 33-27-00-960-002

- (1) To replace the fuse for the passenger call light on a passenger service unit (PSU), do this task: Reading Light - PSU Circuit Board Fuse Replacement, TASK 33-23-00-960-803.

NOTE: If the new fuse corrects the problem, you do not need to replace the light assembly.

SUBTASK 33-27-00-860-001

- (2) To replace a passenger call light or call switch on a passenger service unit (PSU), do this task: Reading Light - PSU Circuit Board Replacement, TASK 33-23-00-820-801.

NOTE: The installation test of the PSU in the reference task is sufficient. For an optional test, do a test of the Passenger and Lavatory Call Lights (Passenger Compartment Lights - Operational Test, TASK 33-20-00-710-801-001).

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

33-27-00

Page 201
Jun 15/2008

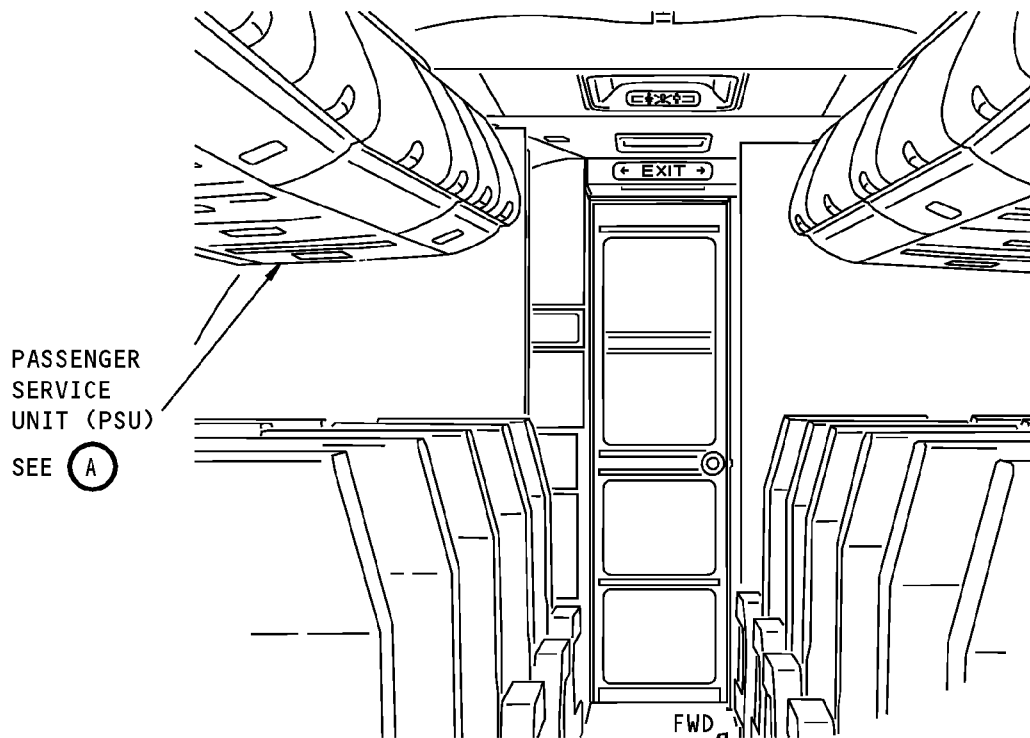
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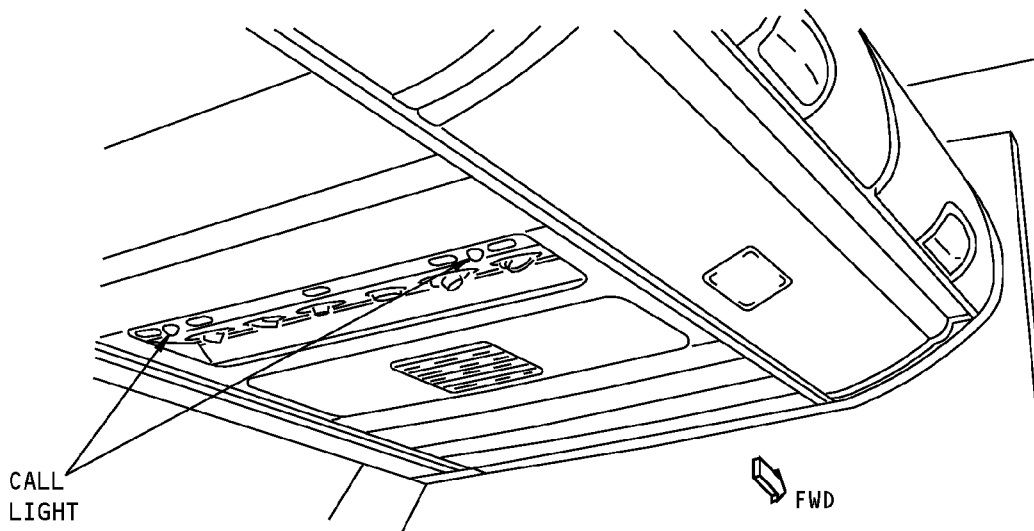


737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL



PASSENGER COMPARTMENT



PASSENGER SERVICE UNIT (PSU) (EXAMPLE)

(A)

Passenger Call Light - PSU Light/Switch Replacement
Figure 201/33-27-00-990-801

EFFECTIVITY
HAP ALL

D633A101-HAP

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33-27-00

Page 202
Oct 10/2003



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-27-00-960-802

3. Lavatory Call Light - Light/Switch Replacement

(Figure 202)

A. General

- (1) The lavatory call lights include these components: (SSM 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)
SSM 33-27-11	System Schematics 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.

EFFECTIVITY
HAP ALL

D633A101-HAP

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33-27-00

Page 203
Feb 10/2004



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (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
HAP ALL

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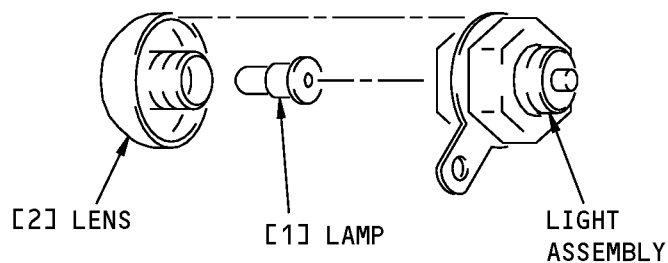
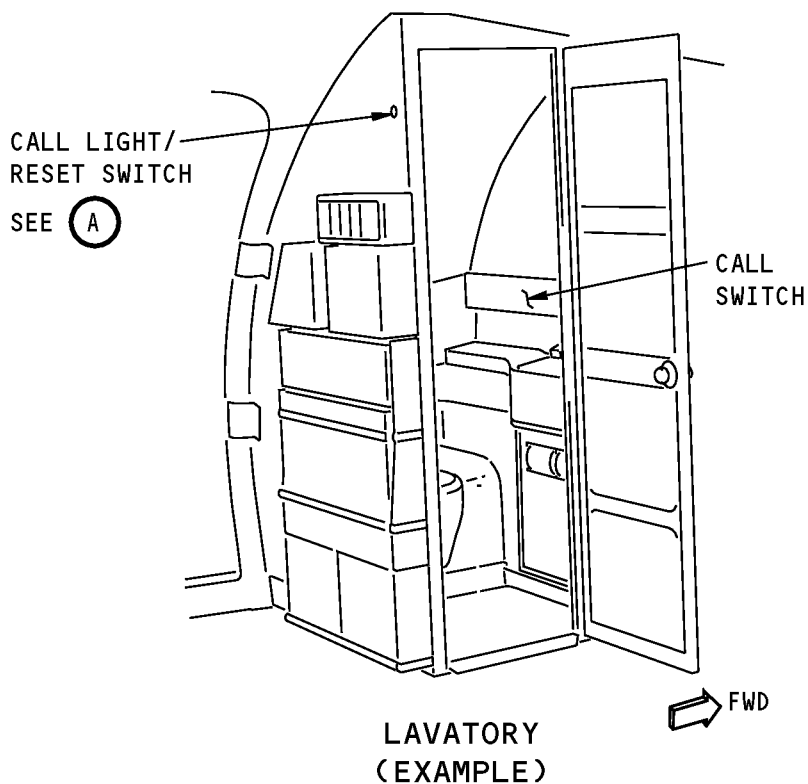
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33-27-00

Page 204
Oct 10/2003



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



CALL LIGHT/RESET SWITCH
(EXAMPLE)

(A)

Lavatory Call Light - Light/Switch Replacement
Figure 202/33-27-00-990-802

EFFECTIVITY
HAP ALL

D633A101-HAP

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33-27-00

Page 205
Oct 10/2003



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

ENTRY LIGHTS - MAINTENANCE PRACTICES

1. General

A. This procedure has these tasks:

- (1) Entry Light - Fluorescent Lamp Replacement
- (2) Entry Light - Dim Entry Light Replacement
- (3) Entry Light - Threshold Light Lamp Replacement
- (4) Entry Light - Entry Light Assembly Replacement
- (5) Entry Light - Ballast Replacement

TASK 33-29-00-960-801

2. Entry Light - Fluorescent 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)
SSM 33-29-11	System Schematics Manual

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Procedure

SUBTASK 33-29-00-860-001

- (1) At the forward attendant panel, set the switch for the entry lights to the off mode and attach the DO-NOT-OPERATE tag.

SUBTASK 33-29-00-960-001

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 a fluorescent lamp in the entry light (SSM 33-29-11):

- (a) Lower the applicable lens assembly [1] or light assembly [6].

NOTE: For the forward entry light, lower the left side of the lens assembly. For the aft entry light, lower the aft side of the light assembly.

- (b) For the aft entry light, open the door assembly [8] to get access to the lamps.
- (c) Replace the applicable lamp [3] or [7].

NOTE: Use the levers to eject the lamp.

- (d) For the aft entry light, close the door assembly [8].
- (e) Close the applicable lens assembly [1] or light assembly [6].

SUBTASK 33-29-00-860-002

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

SUBTASK 33-29-00-710-001

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

EFFECTIVITY
HAP ALL

D633A101-HAP

33-29-00

Page 201
Feb 10/2004



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (a) Make sure the flight compartment door is closed when you replace a lamp in the forward entry light assembly.
- (b) Set the switch for the entry lights to the bright mode.
 - 1) Make sure the fluorescent light comes on brightly.
- (c) Set the switch to the dim mode.
 - 1) Make sure the fluorescent light becomes dim.
- (d) Set the switch to the off mode.
 - 1) Make sure the fluorescent light goes off.

SUBTASK 33-29-00-860-003

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

END OF TASK

EFFECTIVITY
HAP ALL

D633A101-HAP

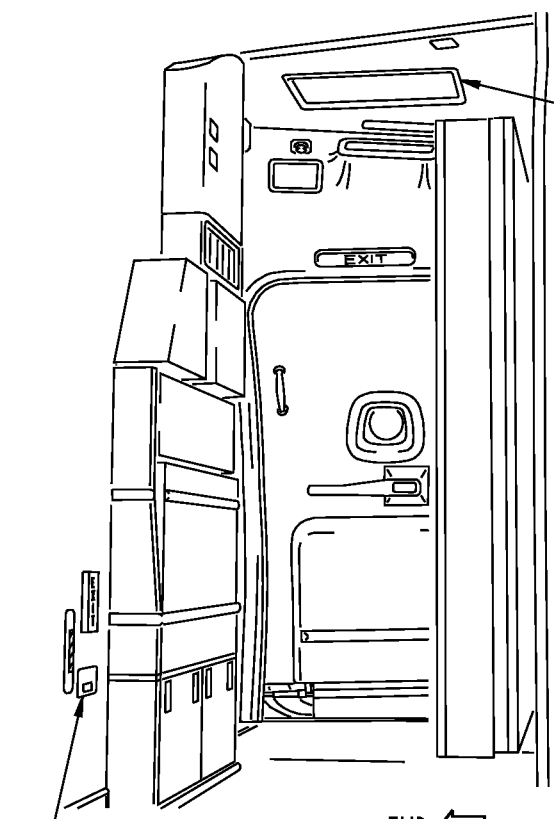
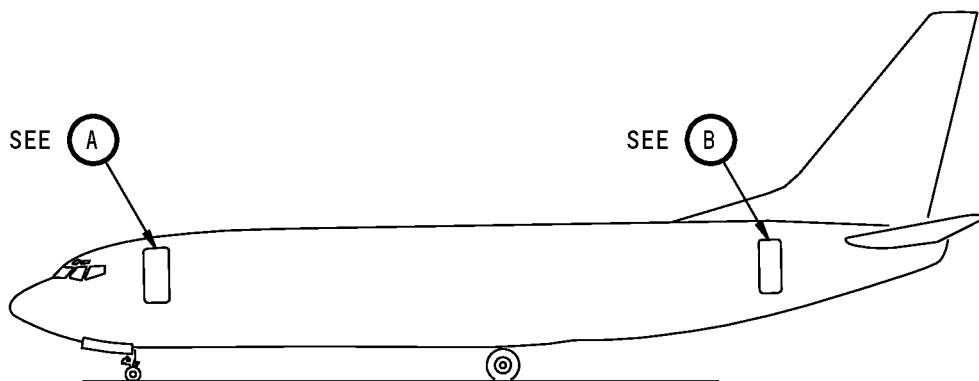
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33-29-00

Page 202
Oct 10/2003



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



THRESHOLD LIGHT

SEE (D)

VIEW THROUGH THE
FORWARD PASSENGER DOOR

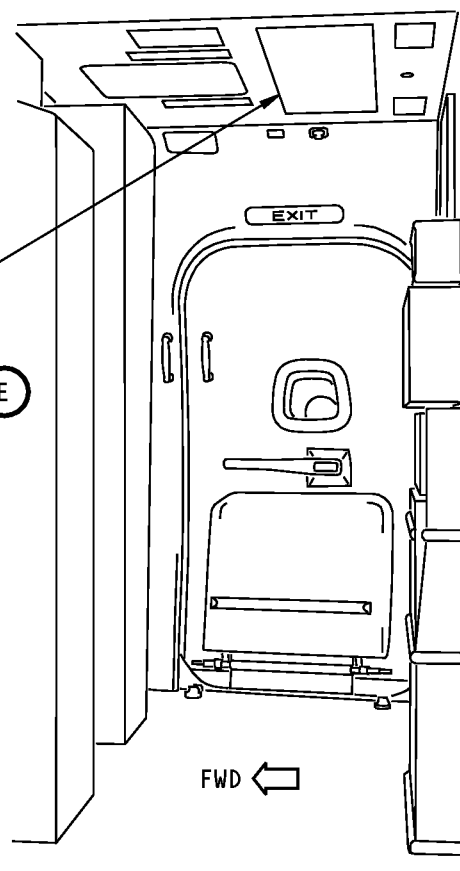
(A)

FORWARD
ENTRY LIGHT

SEE (C)

AFT
ENTRY
LIGHT

SEE (E)



VIEW THROUGH THE
AFT PASSENGER DOOR

(B)

Entry Light - Lamp Replacement
Figure 201 (Sheet 1 of 3)/33-29-00-990-801

EFFECTIVITY
HAP ALL

D633A101-HAP

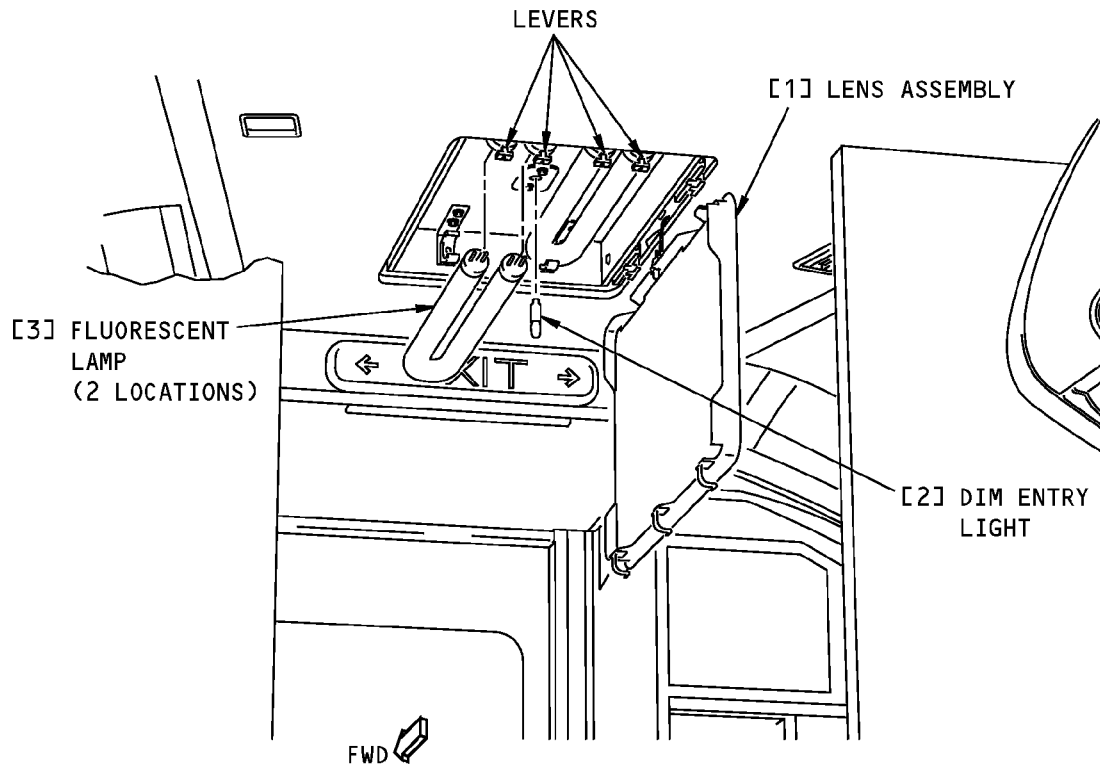
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33-29-00

Page 203
Oct 10/2003

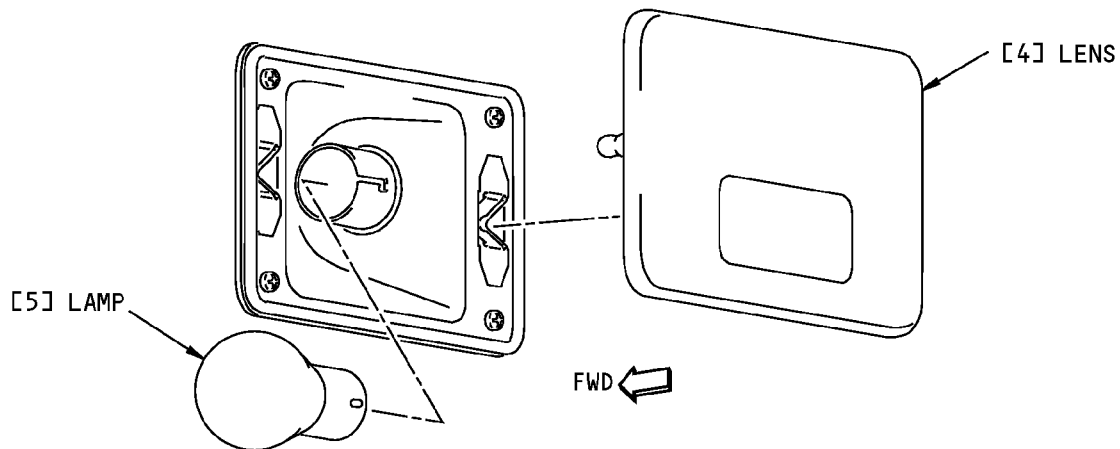


737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL



FORWARD ENTRY LIGHT

(C)



FORWARD THRESHOLD LIGHT

(D)

Entry Light - Lamp Replacement
Figure 201 (Sheet 2 of 3)/33-29-00-990-801

EFFECTIVITY
HAP ALL

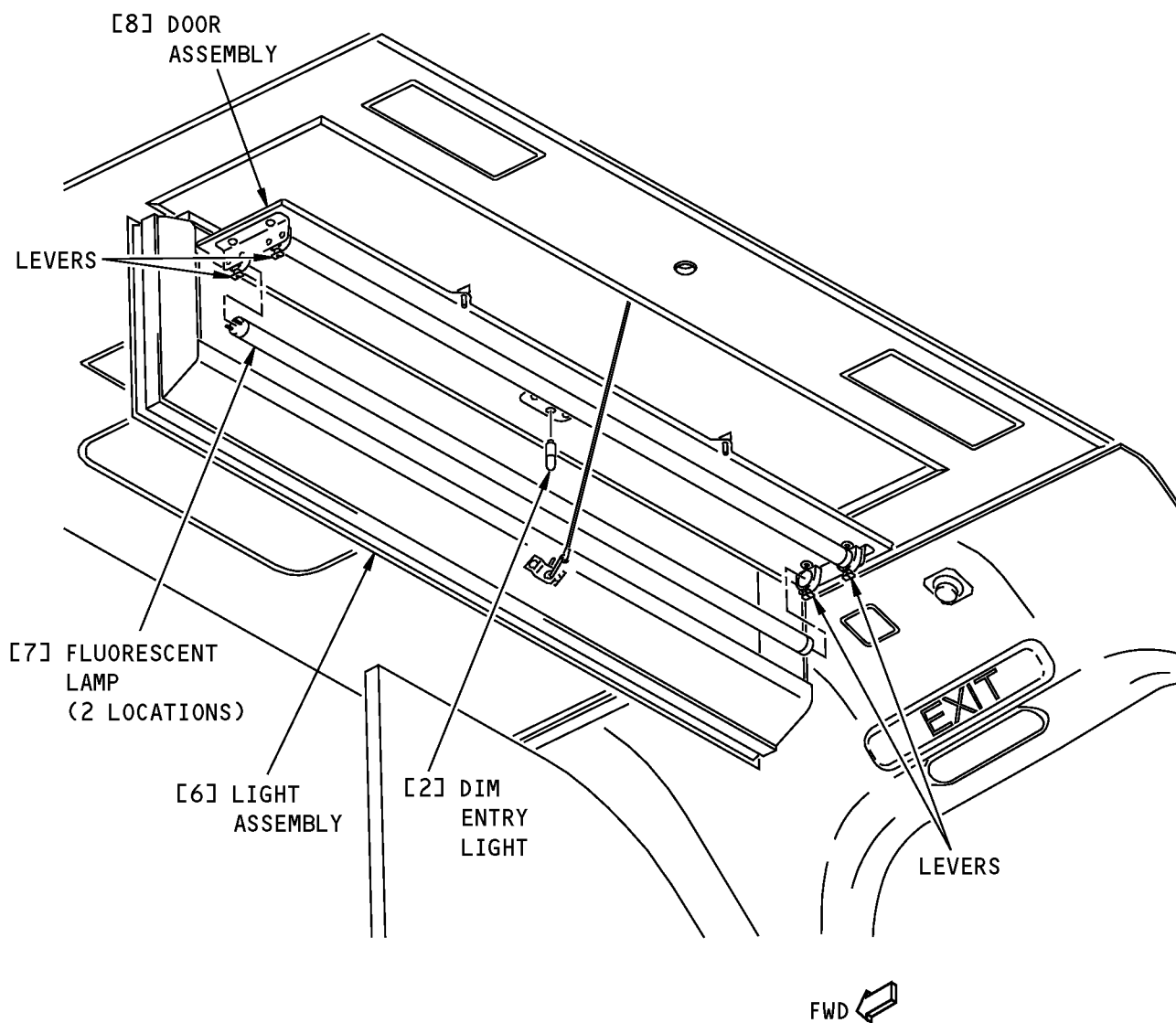
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Page 204
Oct 10/2003

D633A101-HAP



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



AFT ENTRY LIGHT

E

Entry Light - Lamp Replacement
Figure 201 (Sheet 3 of 3)/33-29-00-990-801

EFFECTIVITY
HAP ALL

D633A101-HAP

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33-29-00

Page 205
Oct 10/2003



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-29-00-960-802

3. Entry Light - Dim Entry Light 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)
SSM 33-29-11	System Schematics Manual

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Procedure

SUBTASK 33-29-00-860-004

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

F/O Electrical System Panel, P6-4

Row	Col	Number	Name
E	9	C00155	ENTRY LIGHTS DIM

SUBTASK 33-29-00-860-005

- (2) At the forward attendant panel, set the switch for the entry lights to the off mode.

SUBTASK 33-29-00-960-002

WARNING: DO NOT TOUCH THE SOCKETS OR THE METAL ENDS OF THE LAMP. WHEN ELECTRICAL POWER IS SUPPLIED TO THE LIGHT, ELECTRICAL SHOCK CAN OCCUR.

- (3) Do these steps to replace the dim entry light (SSM 33-29-11):

- (a) Lower the applicable lens assembly [1] or light assembly [6].

NOTE: For the forward entry light, lower the left side of the lens assembly. For the aft entry light, lower the aft side of the light assembly.

- (b) For the aft entry light, lift the back of the door assembly [8] to get access to the lamp.

- (c) Replace the dim entry light [2].

- (d) For the aft entry light, close the back of the door assembly [8].

- (e) Close the applicable lens assembly [1] or light assembly [6].

SUBTASK 33-29-00-860-006

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

SUBTASK 33-29-00-710-002

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

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

F/O Electrical System Panel, P6-4

Row	Col	Number	Name
E	9	C00155	ENTRY LIGHTS DIM

- (b) At the overhead panel, P5, set the BAT switch to the ON mode.

EFFECTIVITY
HAP ALL

33-29-00

Page 206
Feb 10/2004

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (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 33-29-00-860-007

- (6) Set the switch for the entry lights to the usual mode.

SUBTASK 33-29-00-860-008

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

END OF TASK

TASK 33-29-00-960-803

4. Entry Light - Threshold 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)
SSM 33-29-11	System Schematics Manual

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Procedure

SUBTASK 33-29-00-860-009

- (1) At the forward attendant panel, set the switch for the entry lights to the off mode.

SUBTASK 33-29-00-960-003

WARNING: DO NOT TOUCH THE SOCKETS OR THE METAL ENDS OF THE LAMP. WHEN ELECTRICAL POWER IS SUPPLIED TO THE LIGHT, ELECTRICAL SHOCK CAN OCCUR.

- (2) Do these steps to replace the lamp in the threshold light (SSM 33-29-11):

- (a) Use a slim, flat tool to lift the lens [4] away from the light assembly.
(b) Replace the lamp [5].
(c) Align the lens [4] and push it on to the light assembly.

SUBTASK 33-29-00-860-010

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

SUBTASK 33-29-00-710-003

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

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

EFFECTIVITY
HAP ALL

D633A101-HAP

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33-29-00

Page 207
Feb 10/2004



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

SUBTASK 33-29-00-860-011

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

END OF TASK

TASK 33-29-00-960-804

5. Entry 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)
SSM 33-29-11	System Schematics Manual

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Procedure

SUBTASK 33-29-00-860-012

(1) 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>
HAP 001-013, 015-026, 028-036			
E	10	C00413	BRT ENTRY LT
HAP 037-054, 101-999			
E	11	C00413	BRT ENTRY LT
HAP ALL			

SUBTASK 33-29-00-960-004

(2) Do these steps to replace the ballast (SSM 33-29-11):

(a) Lower the applicable entry light for access to the top side of the light assembly housing.

NOTE: Lower the forward side of the forward entry light. Lower the aft side of the aft entry light.

(b) Disconnect the electrical connector [22].

(c) Remove the screws [24] and washers [23].

(d) Replace the ballast [21].

(e) Install the screws [24] and washers [23].

(f) Connect the electrical connector [22].

(g) Close the applicable entry light.

EFFECTIVITY
HAP ALL

33-29-00

Page 208
Feb 15/2009

D633A101-HAP



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

SUBTASK 33-29-00-860-013

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

Power Distribution Panel Number 1, P91

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
HAP 001-013, 015-026, 028-036			
E	10	C00413	BRT ENTRY LT
HAP 037-054, 101-999			
E	11	C00413	BRT ENTRY LT
HAP ALL			

SUBTASK 33-29-00-860-014

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

SUBTASK 33-29-00-710-004

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

- Make sure the flight compartment door is closed when you replace a ballast for the forward entry light assembly.
- At the forward attendant panel, set the switch for the entry lights to the bright mode.
 - Make sure the fluorescent lamps come on brightly.
- Set the switch to the dim mode.
 - Make sure the fluorescent lamps become dim.
- Set the switch to the off mode.
 - Make sure the fluorescent lamps go off.

SUBTASK 33-29-00-860-015

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

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

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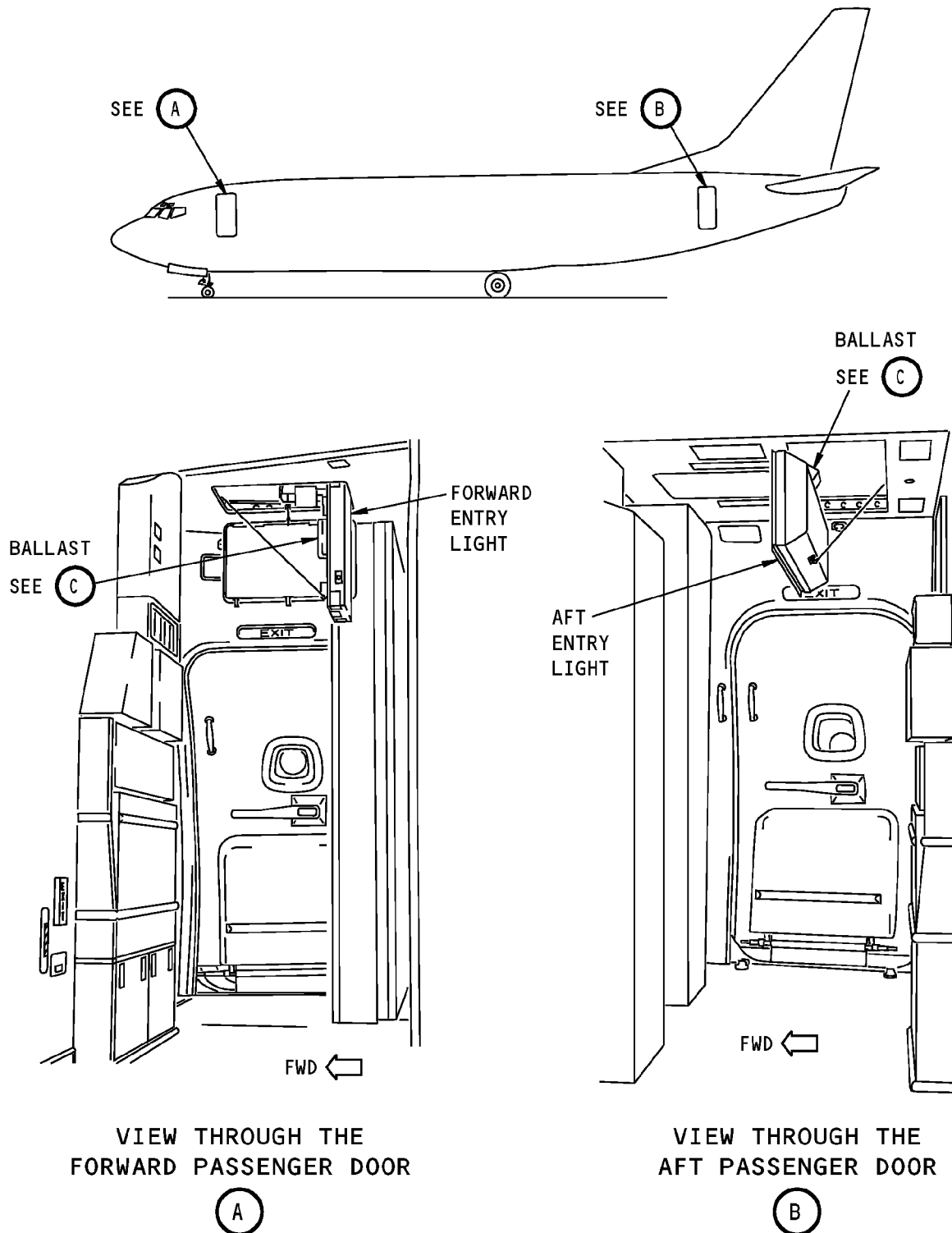
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33-29-00

Page 209
Feb 15/2009



737-600/700/800/900
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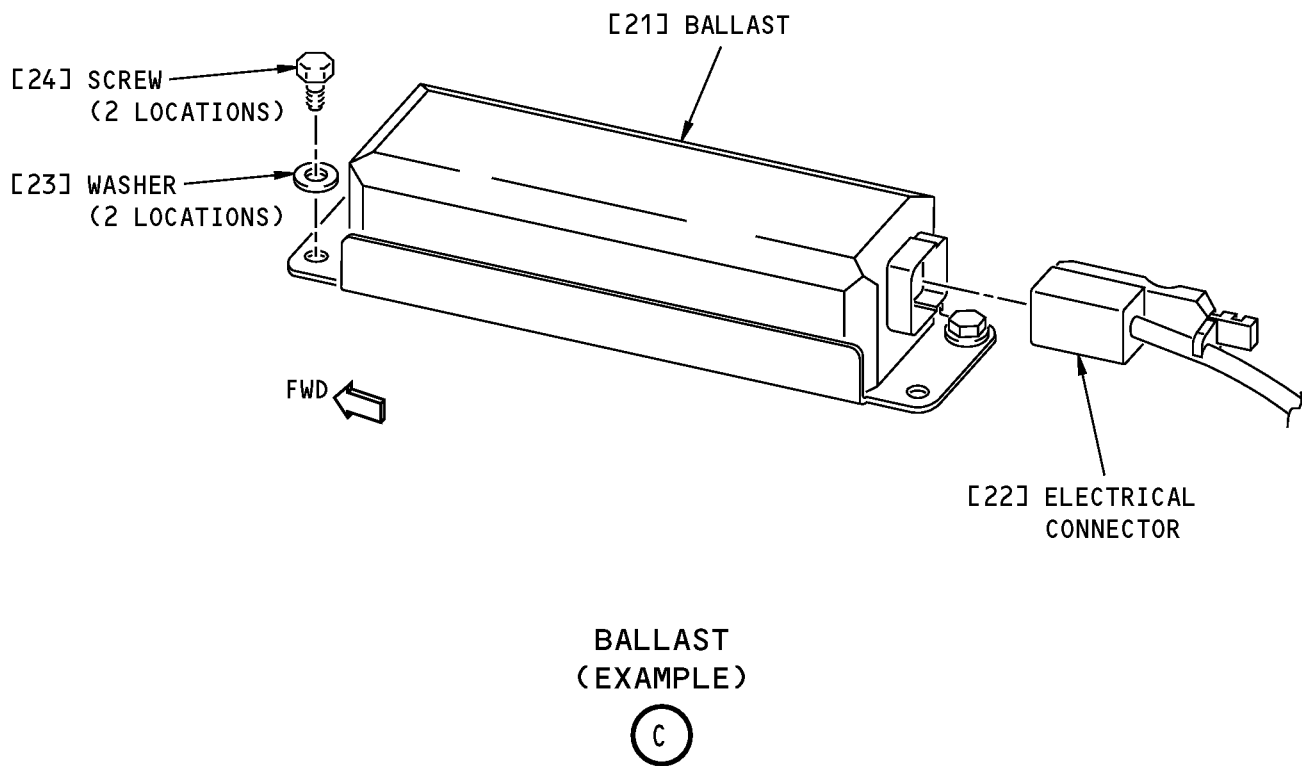
Entry Light - Ballast Replacement
Figure 202 (Sheet 1 of 2)/33-29-00-990-802

EFFECTIVITY
HAP ALL

D633A101-HAP

33-29-00

Page 210
Oct 10/2003



Entry Light - Ballast Replacement
Figure 202 (Sheet 2 of 2)/33-29-00-990-802

EFFECTIVITY
HAP ALL

D633A101-HAP

33-29-00

Page 211
Oct 10/2003



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

WHEEL WELL LIGHTS - MAINTENANCE PRACTICES

1. General

A. This procedure has these tasks:

- (1) Wheel Well Light - Lamp Replacement
- (2) Wheel Well Lights - Operational Test

TASK 33-32-00-960-801

2. Wheel Well 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)
SSM 33-32-11	System Schematics Manual

B. Location Zones

Zone	Area
115	Nose Landing Gear Wheel Well - Left
116	Nose Landing Gear Wheel Well - Right
133	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Left
134	Main Landing Gear Wheel Well, Body Station 663.75 to Body Station 727.00 - Right

C. Procedure

SUBTASK 33-32-00-860-001

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

HAP ALL; AIRPLANES WITH MAIN WHEEL WELL SERVICE LIGHT

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

HAP 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.

HAP ALL

SUBTASK 33-32-00-960-001

- (2) Do these steps to replace the lamp:
 - (a) Loosen the applicable fasteners [4] [8].
 - 1) If washers [7] are installed, remove them.
 - (b) Remove the applicable lens assembly [3] [5].
 - (c) Replace the applicable lamp [1] [6].
 - (d) Install the applicable lens assembly [3] [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] [8].

EFFECTIVITY
HAP ALL

33-32-00

Page 201
Oct 10/2004

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- 1) If washers [7] were removed, install them.

SUBTASK 33-32-00-860-002

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

SUBTASK 33-32-00-710-001

- (4) 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

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

SUBTASK 33-32-00-860-003

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

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

D633A101-HAP

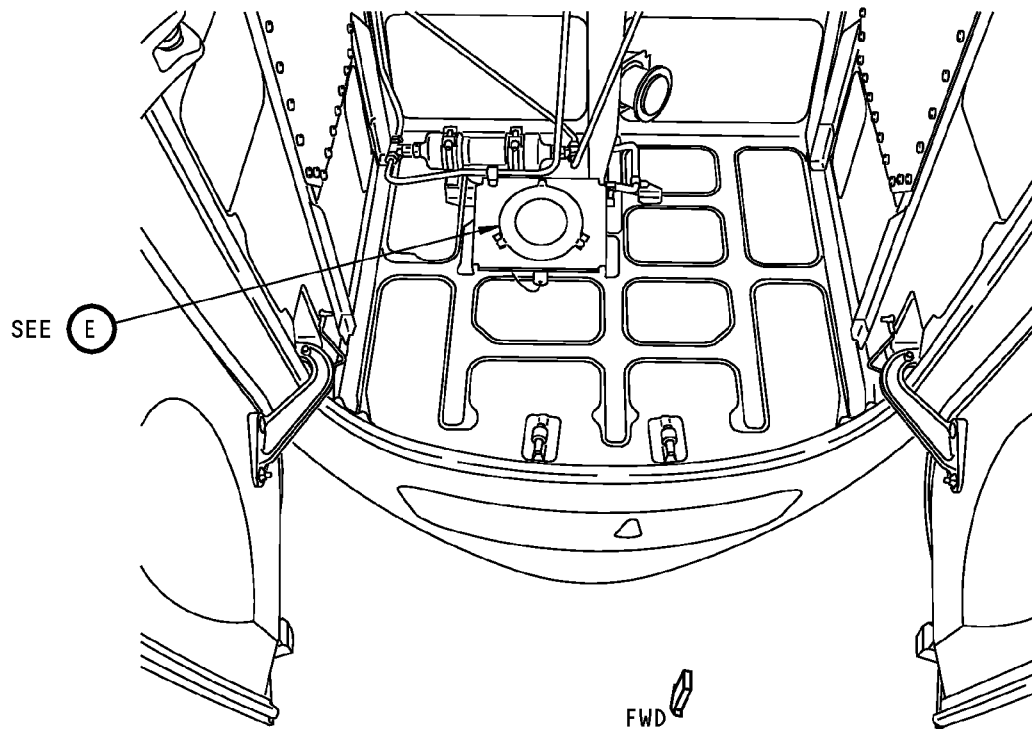
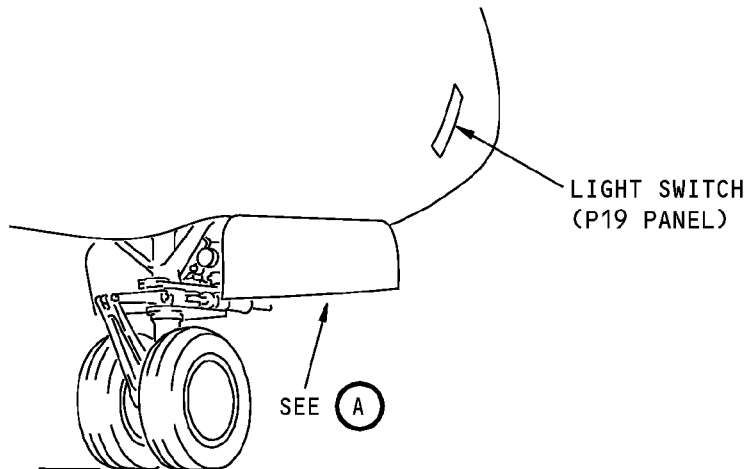
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33-32-00

Page 202
Oct 10/2003



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



VIEW THROUGH THE NOSE LANDING GEAR WHEEL WELL

(A)

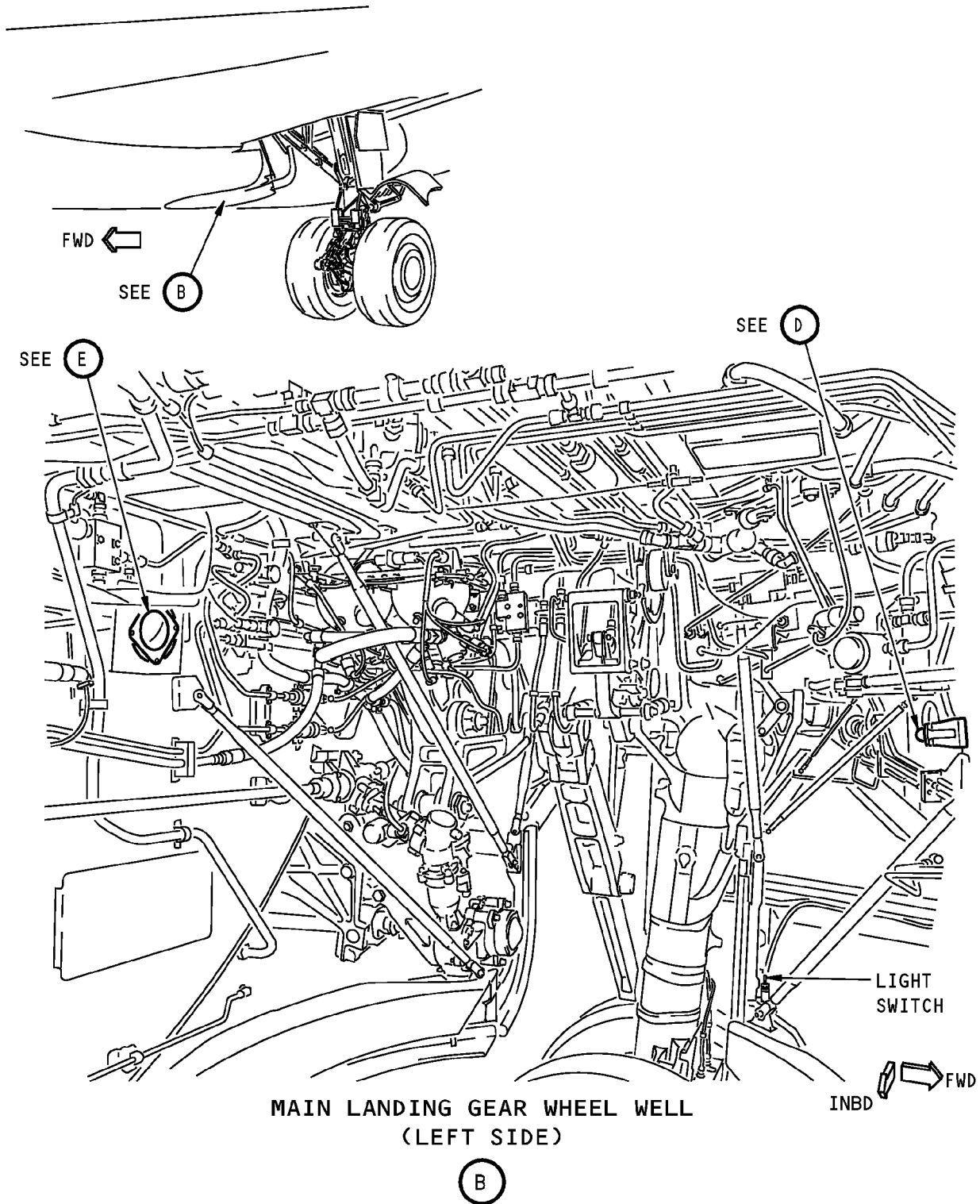
Wheel Well Light - Lamp Replacement
Figure 201 (Sheet 1 of 4)/33-32-00-990-801

EFFECTIVITY
HAP ALL

D633A101-HAP

33-32-00

Page 203
Oct 10/2003



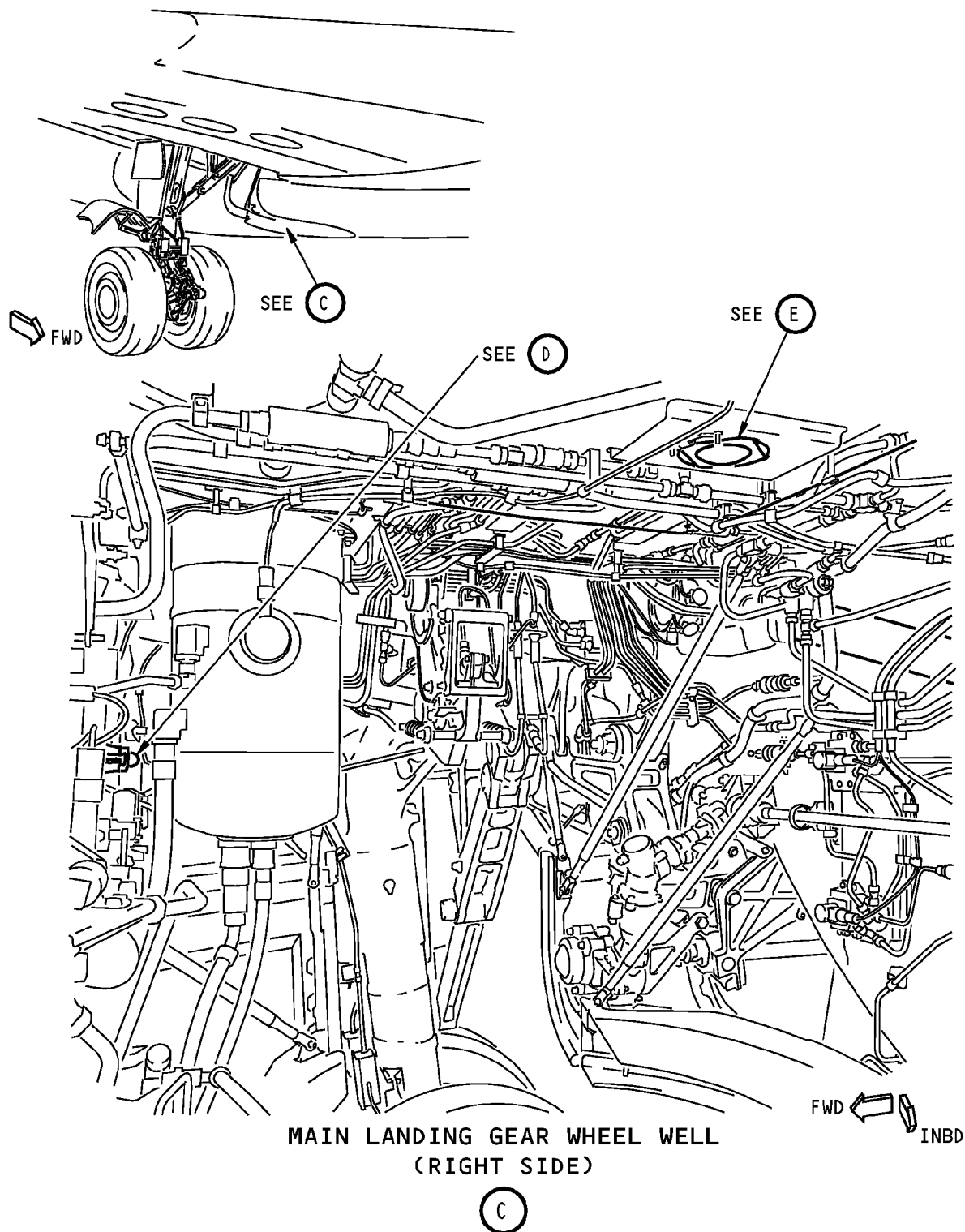
**Wheel Well Light - Lamp Replacement
Figure 201 (Sheet 2 of 4)/33-32-00-990-801**

EFFECTIVITY
HAP ALL

33-32-00

Page 204
Oct 10/2003

D633A101-HAP



**Wheel Well Light - Lamp Replacement
Figure 201 (Sheet 3 of 4)/33-32-00-990-801**

EFFECTIVITY
HAP ALL

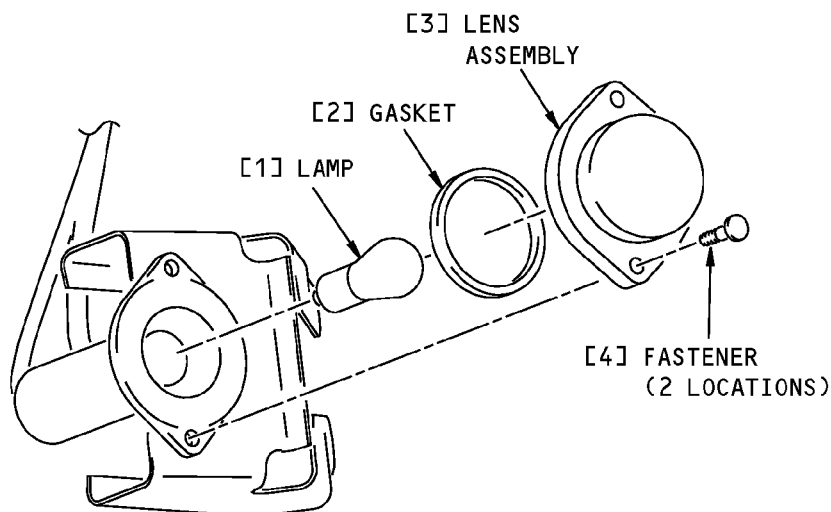
33-32-00

Page 205
Oct 10/2003

D633A101-HAP

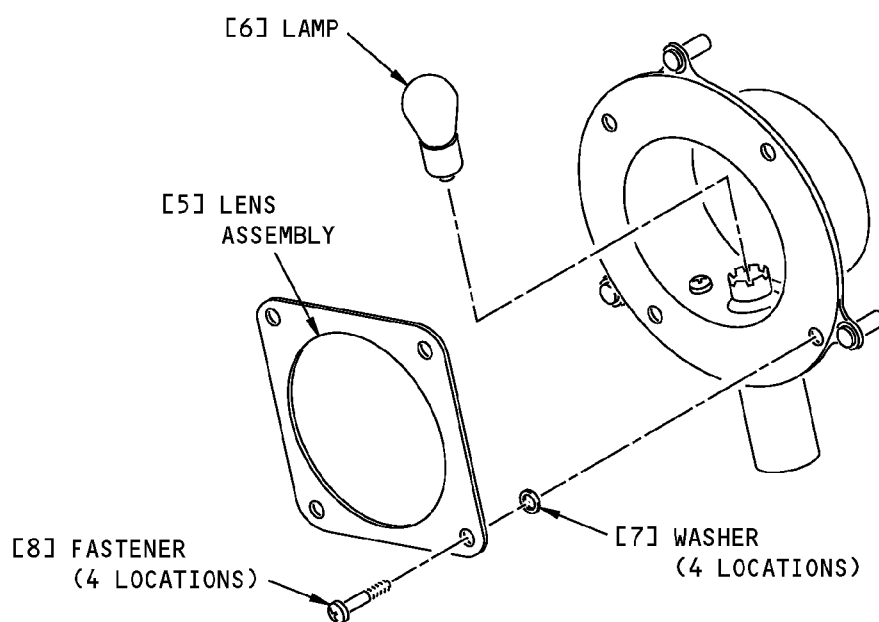


737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL



LIGHT
(EXAMPLE)

D



LIGHT
(EXAMPLE)

E

Wheel Well Light - Lamp Replacement
Figure 201 (Sheet 4 of 4)/33-32-00-990-801

EFFECTIVITY
HAP ALL

33-32-00

Page 206
Oct 10/2003

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-32-00-710-801

3. 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
HAP ALL

D633A101-HAP

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33-32-00

Page 207
Oct 10/2003



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

AIR CONDITIONING COMPARTMENT LIGHTS - MAINTENANCE PRACTICES

1. General

A. This procedure has one task:

- (1) Air Conditioning Compartment Light - Lamp Replacement

TASK 33-33-00-960-801

2. Air Conditioning Compartment Light - Lamp Replacement

(Figure 201)

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)
SSM 33-33-11	System Schematics Manual

C. 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

D. Access Panels

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

E. Procedure

SUBTASK 33-33-00-010-001

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

For the left side,

<u>Number</u>	<u>Name/Location</u>
192CL	Air Conditioning Access Door

For the right side,

<u>Number</u>	<u>Name/Location</u>
192CR	Air Conditioning 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:

EFFECTIVITY
HAP ALL

33-33-00

Page 201
Jun 10/2006

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

For the left side,

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

For the right side,

<u>Number</u>	<u>Name/Location</u>
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 (SSM 33-33-11).

SUBTASK 33-33-00-960-001

- (4) Do these steps to replace the lamp:
- (a) Loosen the fasteners [4].
 - (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 is damaged, replace it [2].
 - (e) Tighten the fasteners [4].

SUBTASK 33-33-00-860-002

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

SUBTASK 33-33-00-710-001

- (6) 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

(7) Close the access door that was opened:

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

SUBTASK 33-33-00-010-003

(8) Close the access panel, if opened:

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

SUBTASK 33-33-00-860-003

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

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

33-33-00

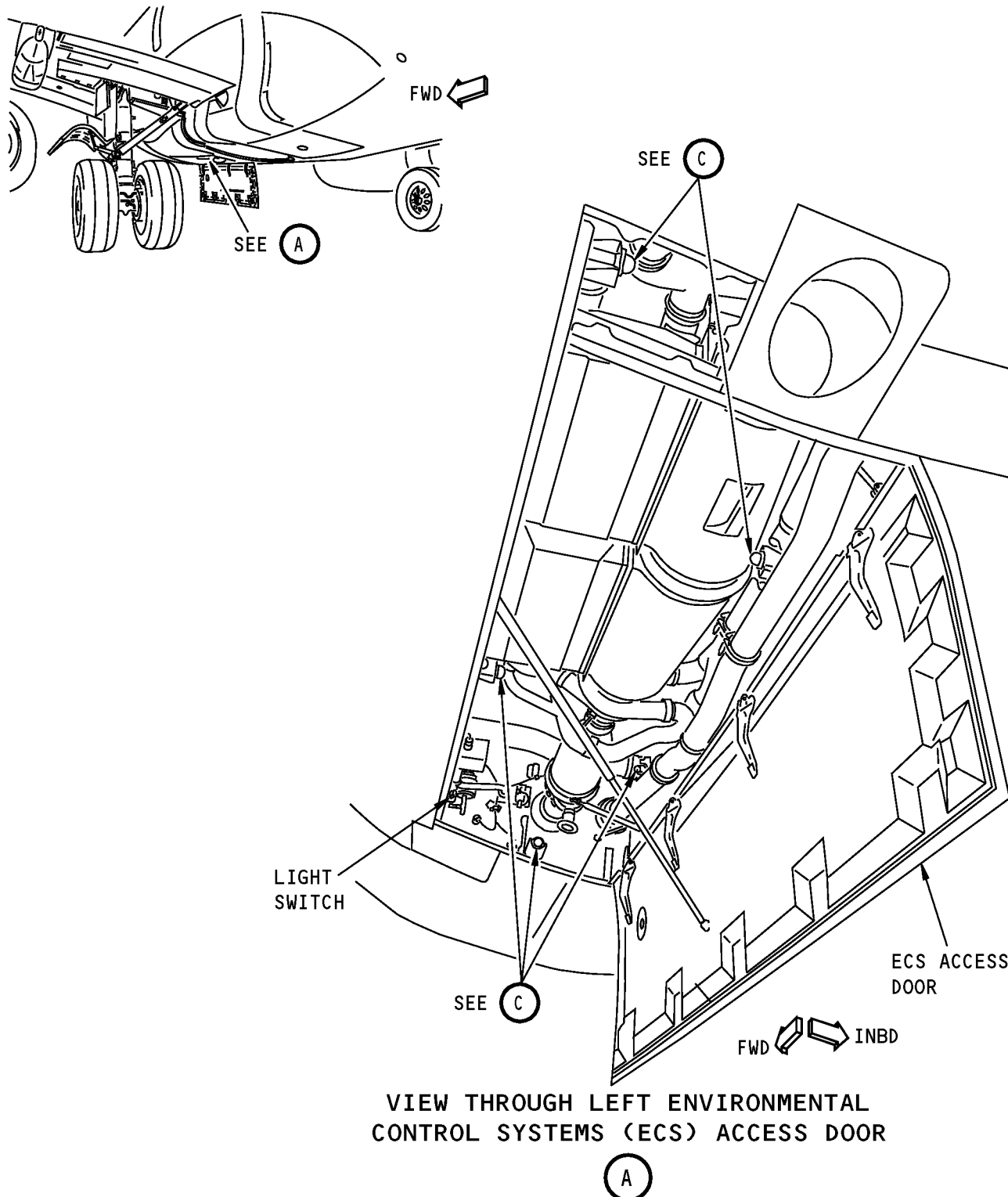
Page 202
Jun 10/2006

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL



Air Conditioning Compartment Light - Lamp Replacement
Figure 201 (Sheet 1 of 3)/33-33-00-990-801

EFFECTIVITY
HAP ALL

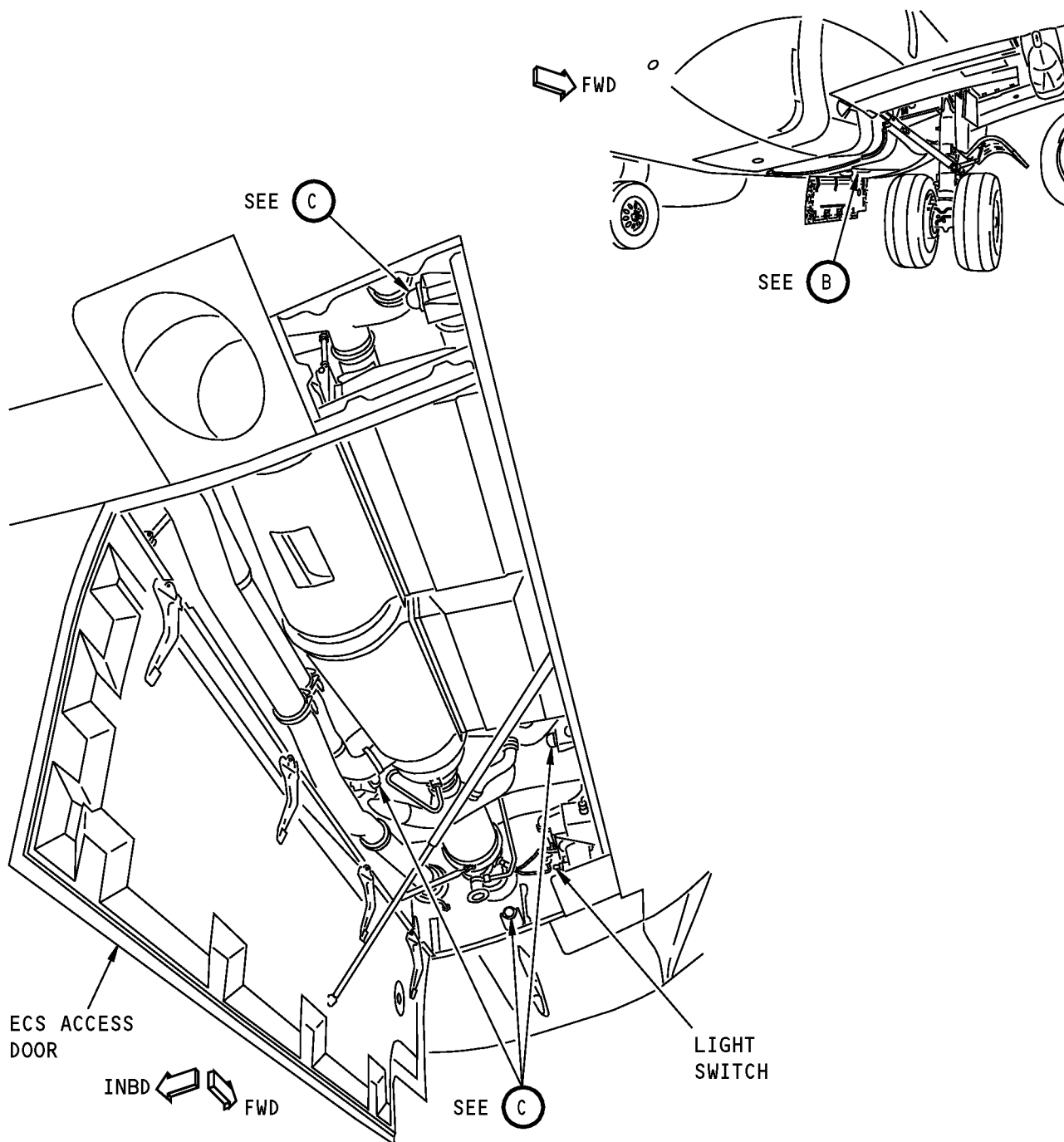
33-33-00

Page 203
Oct 10/2003

D633A101-HAP

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



**VIEW THROUGH RIGHT ENVIRONMENTAL
CONTROL SYSTEMS (ECS) ACCESS DOOR**

(B)

**Air Conditioning Compartment Light - Lamp Replacement
Figure 201 (Sheet 2 of 3)/33-33-00-990-801**

**EFFECTIVITY
HAP ALL**

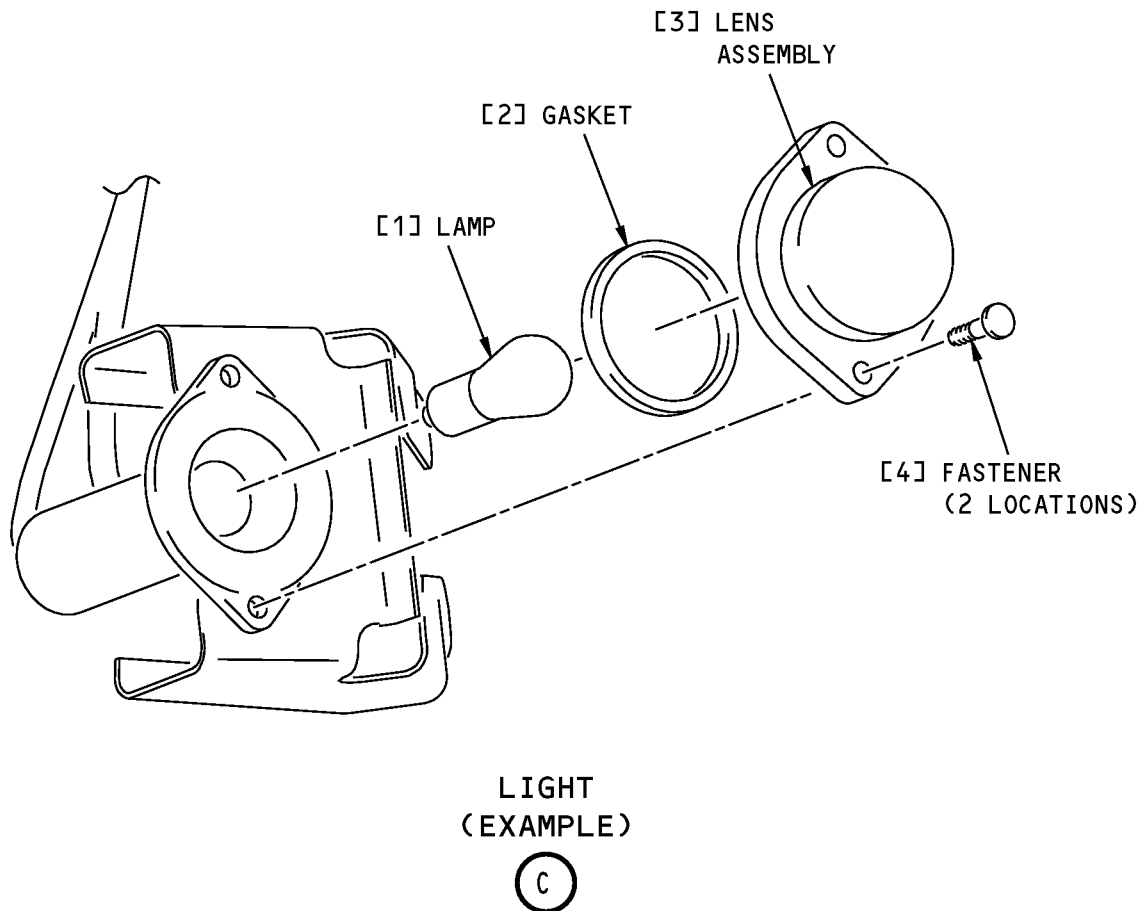
D633A101-HAP

33-33-00

Page 204
Oct 10/2003



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



Air Conditioning Compartment Light - Lamp Replacement
Figure 201 (Sheet 3 of 3)/33-33-00-990-801

EFFECTIVITY
HAP ALL

D633A101-HAP

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33-33-00

Page 205
Oct 10/2003



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

ELECTRONIC EQUIPMENT COMPARTMENT LIGHTS - MAINTENANCE PRACTICES

1. General

A. This procedure has one task:

- (1) Electronic Equipment Compartment Lights - Lamp Replacement

TASK 33-34-00-960-801

2. Electronic Equipment Compartment 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)
SSM 33-34-11	System Schematics Manual

B. Location Zones

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

C. Access Panels

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

D. Procedure

SUBTASK 33-34-00-010-001

- (1) For access to the area forward of the nose landing gear wheel well, do this step:

- (a) Open this access panel:

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

<u>Number</u>	<u>Name/Location</u>
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 (SSM 33-34-11).

SUBTASK 33-34-00-960-001

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

- (a) Loosen the applicable fasteners [4] [7].
1) If washers [3] are installed, remove them.
(b) Remove the applicable lens assembly [1] [5].

EFFECTIVITY
HAP ALL

D633A101-HAP

33-34-00

Page 201
Feb 10/2004



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (c) Replace the applicable lamp [2] [6].
- (d) Install the applicable lens assembly [1] [5].
- (e) Tighten the applicable fasteners [4] [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.
 - 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:

<u>Number</u>	<u>Name/Location</u>
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** —————

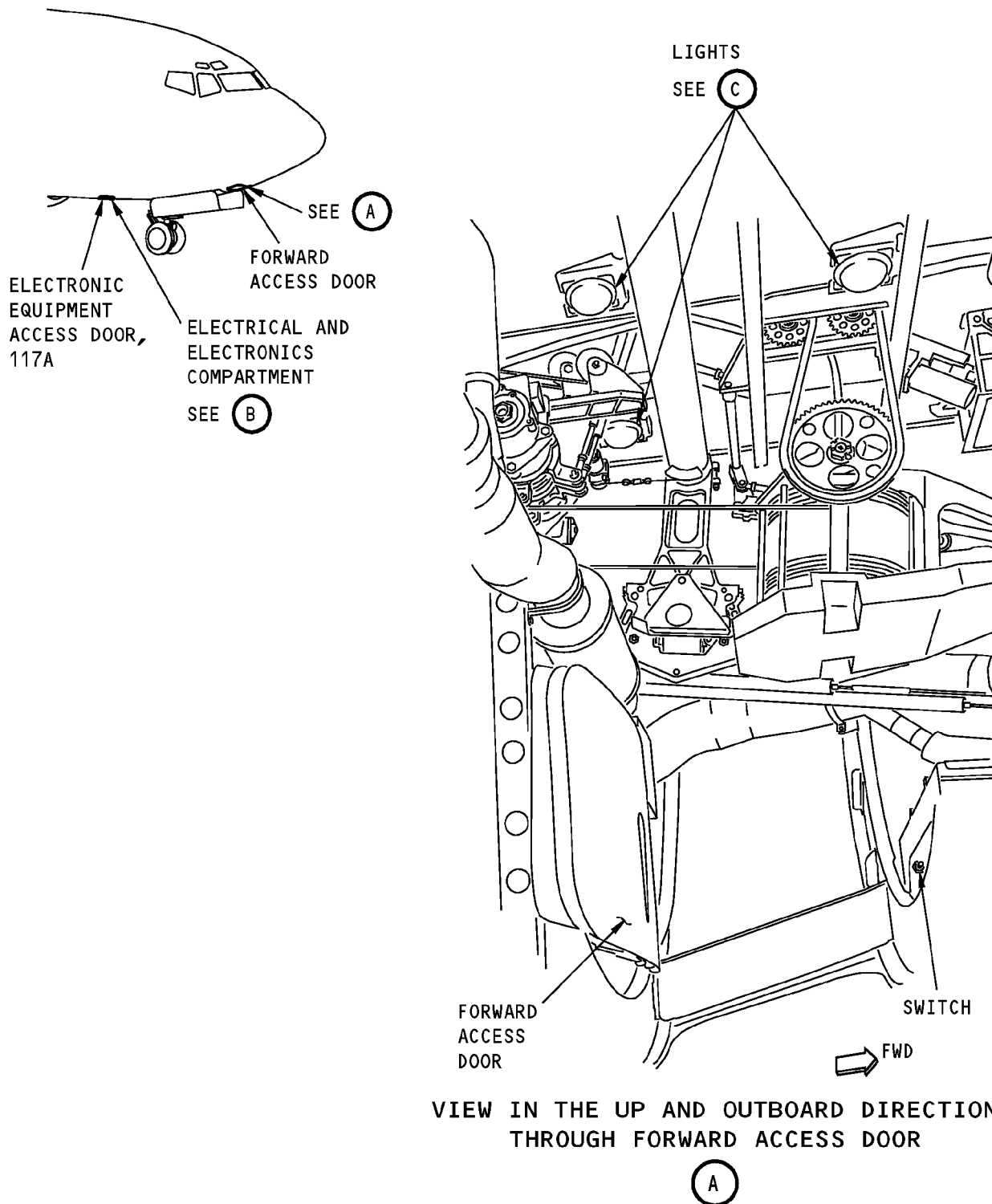
EFFECTIVITY
HAP ALL

D633A101-HAP

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33-34-00

Page 202
Oct 10/2003



VIEW IN THE UP AND OUTBOARD DIRECTION
THROUGH FORWARD ACCESS DOOR

Electronic Equipment Compartment Light - Lamp Replacement
Figure 201 (Sheet 1 of 3)/33-34-00-990-801

EFFECTIVITY
HAP ALL

33-34-00

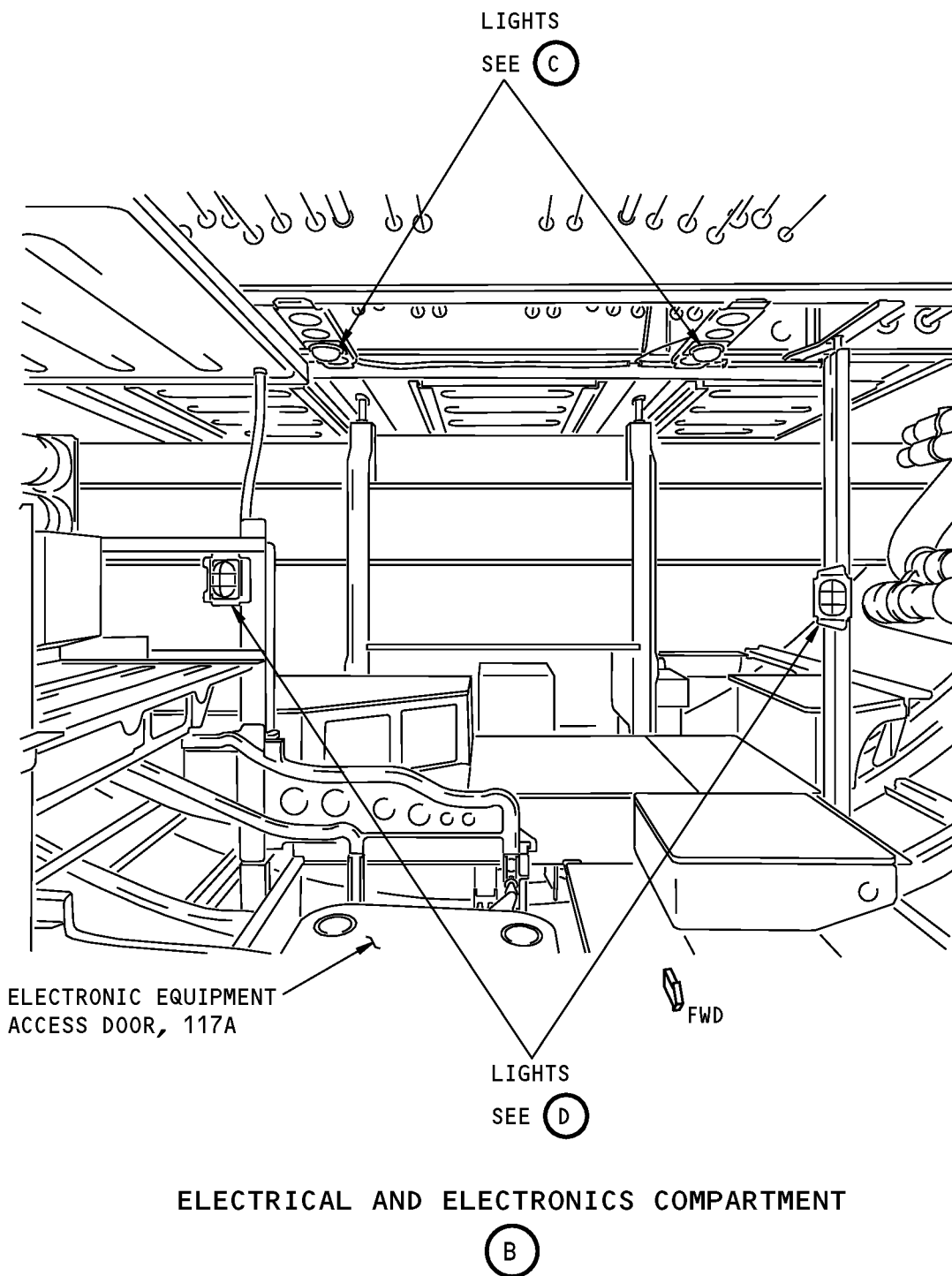
Page 203
Oct 10/2003

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL



Electronic Equipment Compartment Light - Lamp Replacement
Figure 201 (Sheet 2 of 3)/33-34-00-990-801

EFFECTIVITY
HAP ALL

33-34-00

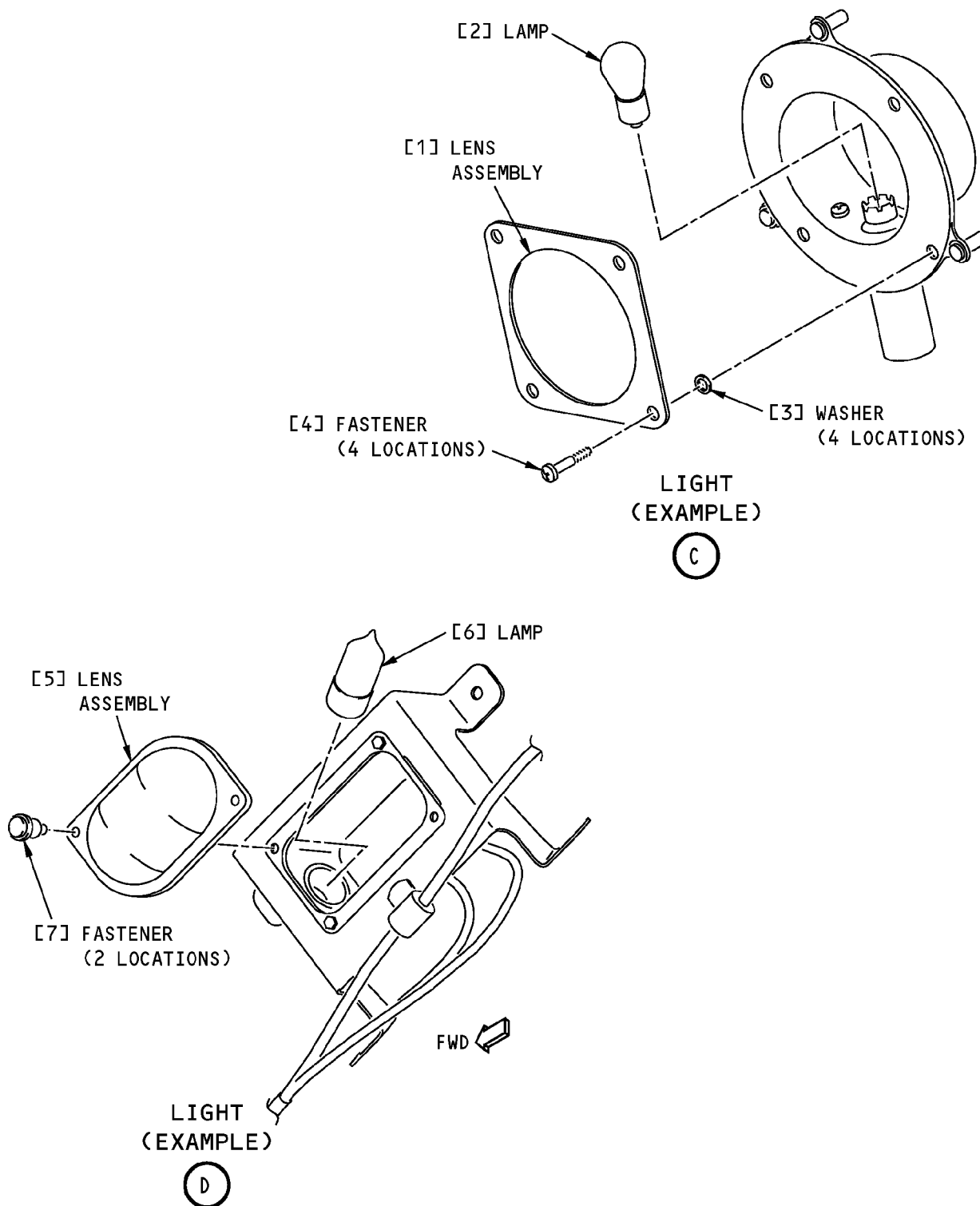
Page 204
Oct 10/2003

D633A101-HAP

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



Electronic Equipment Compartment Light - Lamp Replacement
Figure 201 (Sheet 3 of 3)/33-34-00-990-801

EFFECTIVITY
HAP ALL

D633A101-HAP

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33-34-00

Page 205
Oct 10/2003



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

ACCESSORY COMPARTMENT LIGHTS - MAINTENANCE PRACTICES

1. General

A. This procedure has one task:

- (1) Accessory Compartment Light - Lamp Replacement

TASK 33-35-00-960-801

2. Accessory Compartment 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)
SSM 33-35-11	System Schematics Manual

B. Location Zones

Zone	Area
310	Fuselage - Body Station 1016.00 to Body Station 1217.00

C. Access Panels

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

D. 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:

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

<u>Number</u>	<u>Name/Location</u>
315A	APU Cowl Door

SUBTASK 33-35-00-010-003

- (3) For access to the tailcone, do this step:

- (a) Open this access panel:

<u>Number</u>	<u>Name/Location</u>
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 (SSM 33-35-11).

EFFECTIVITY
HAP ALL

33-35-00

Page 201
Feb 10/2004

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 33-35-00-960-001

- (5) Do these steps to replace the lamp:
- (a) Loosen the applicable fasteners [4] [7].
 - (b) Remove the applicable lens assembly [3] [6].
 - (c) Replace the applicable lamp [1] [5].
 - (d) Install the applicable lens assembly [3] [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] [7].

SUBTASK 33-35-00-860-002

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

SUBTASK 33-35-00-710-001

- (7) Do this test of the new lamp:
- (a) At the access door, set the switch for the light to the on mode.
 - 1) Make sure the lamp comes on.
 - (b) Set the switch to the off mode.
 - 1) Make sure the lamp goes off.

SUBTASK 33-35-00-410-001

- (8) 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

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

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

D633A101-HAP

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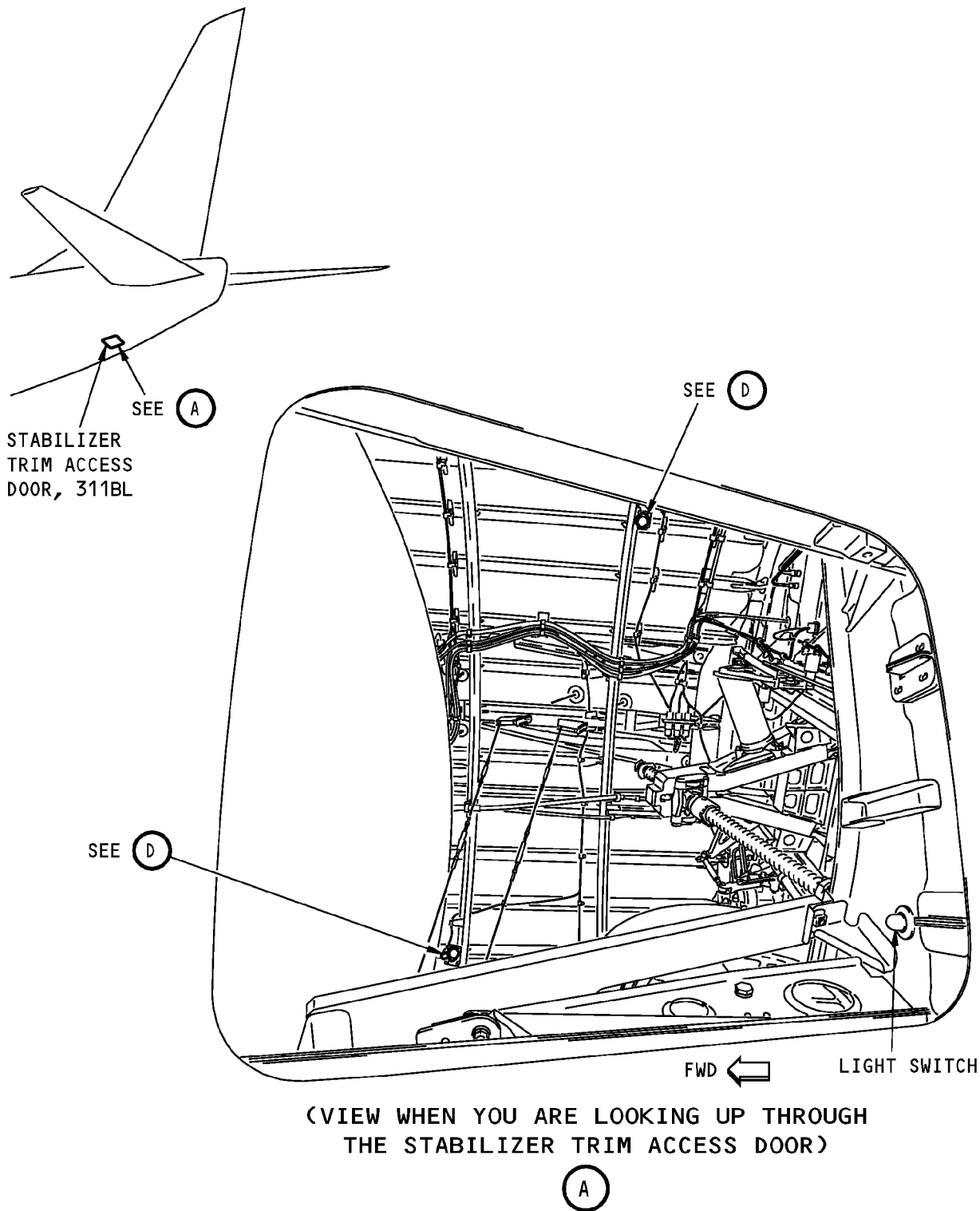
33-35-00

Page 202
Oct 10/2003



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL



Accessory Compartment Light - Lamp Replacement
Figure 201 (Sheet 1 of 4)/33-35-00-990-801

EFFECTIVITY
HAP ALL

33-35-00

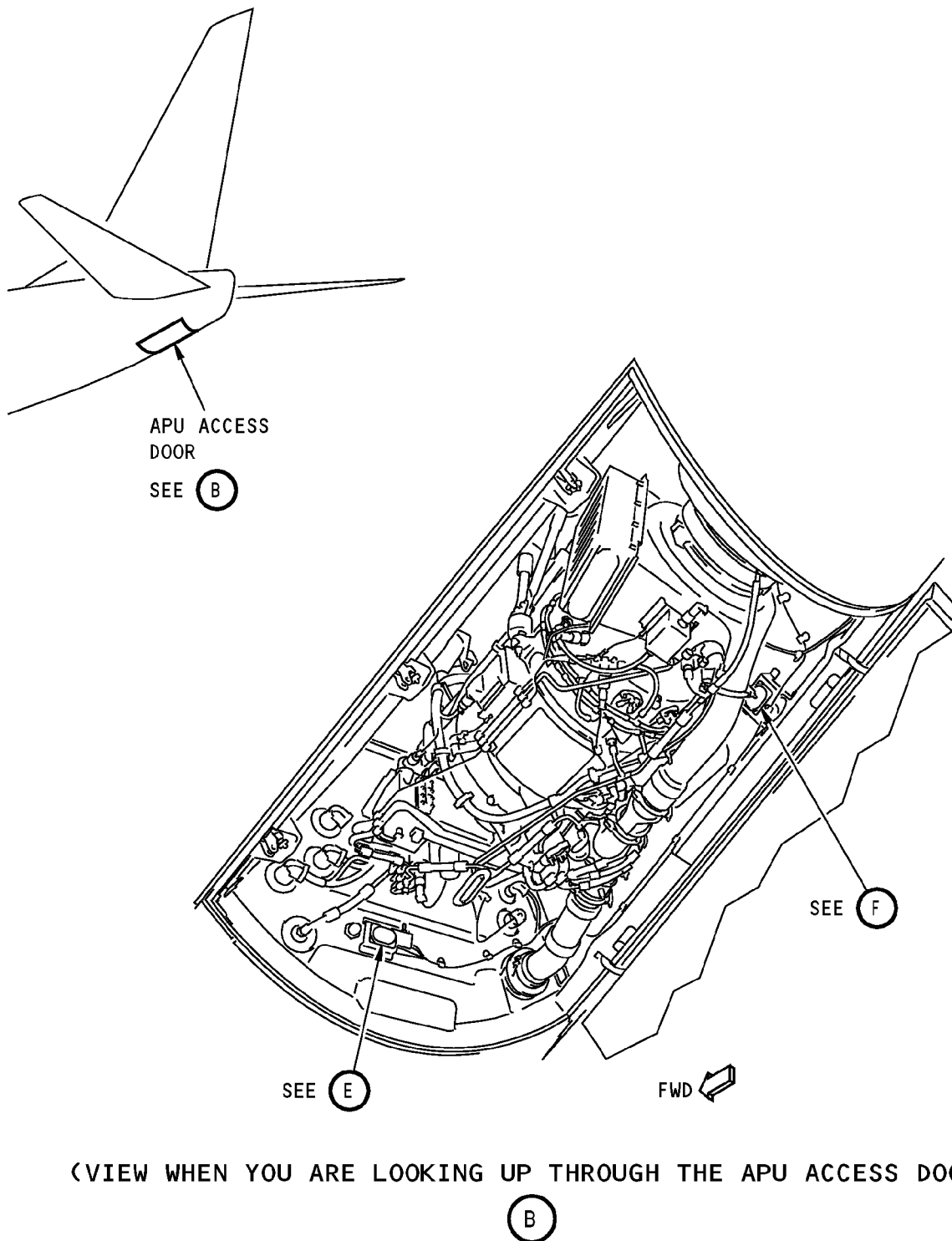
Page 203
Oct 10/2003

D633A101-HAP

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



Accessory Compartment Light - Lamp Replacement
Figure 201 (Sheet 2 of 4)/33-35-00-990-801

EFFECTIVITY
HAP ALL

D633A101-HAP

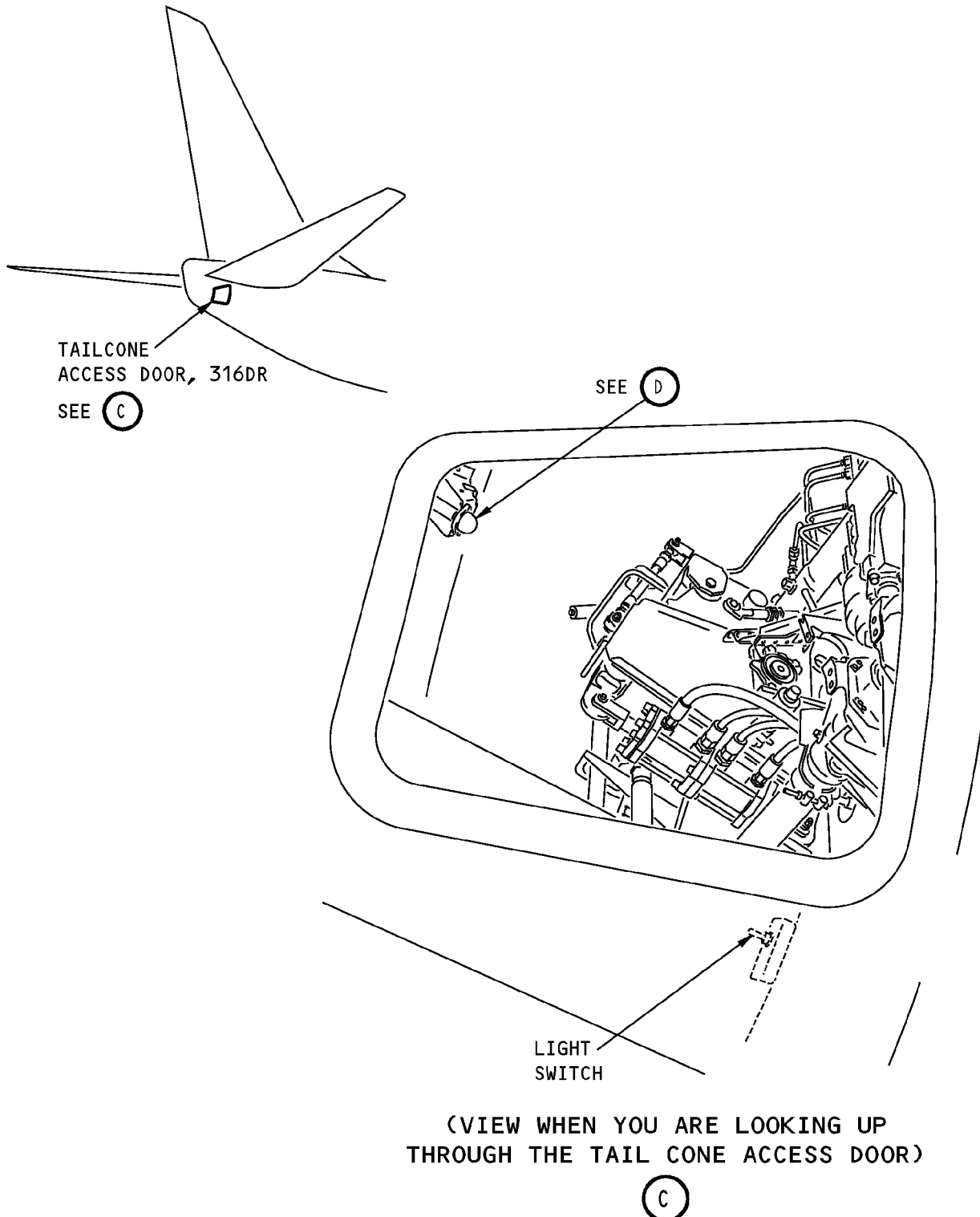
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33-35-00

Page 204
Oct 10/2003



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



Accessory Compartment Light - Lamp Replacement
Figure 201 (Sheet 3 of 4)/33-35-00-990-801

EFFECTIVITY
HAP ALL

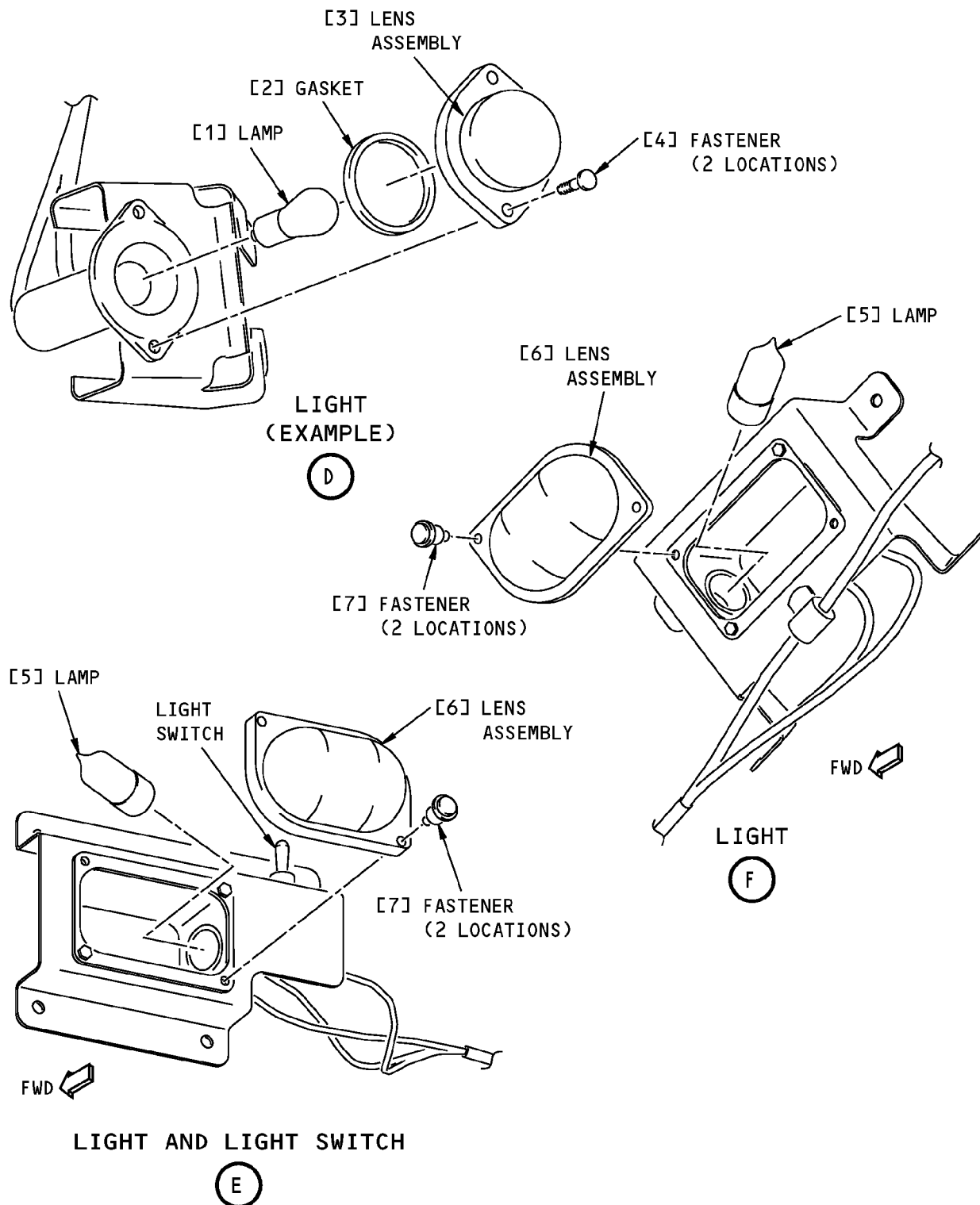
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33-35-00

Page 205
Oct 10/2003

AIRCRAFT MAINTENANCE MANUAL



Accessory Compartment Light - Lamp Replacement
Figure 201 (Sheet 4 of 4)/33-35-00-990-801

EFFECTIVITY
HAP ALL

D633A101-HAP

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33-35-00



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

CARGO COMPARTMENT LIGHTS - MAINTENANCE PRACTICES

1. General

A. This procedure has these tasks:

- (1) Cargo Compartment Light - Lamp Replacement, Ceiling
- (2) Cargo Compartment Light - Lamp Replacement, Door
- (3) Cargo Compartment Light - Light Assembly Replacement, Ceiling
- (4) Cargo Compartment Light - Light Assembly Replacement, Door
- (5) Cargo Compartment Light - Lens Assembly Replacement, Ceiling

TASK 33-36-00-960-801

2. Cargo Compartment Light - Lamp Replacement, Ceiling

(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)
SSM 33-36-11	System Schematics Manual
SSM 33-36-12	System Schematics Manual

B. Location Zones

Zone	Area
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
821	Forward Cargo Door
822	Aft Cargo Door

D. 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

(SSM 33-36-11) (SSM 33-36-12)

SUBTASK 33-36-00-960-001

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

EFFECTIVITY
HAP ALL

D633A101-HAP

33-36-00

Page 201
Feb 10/2004



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (a) Pull off the lens assembly [6] but do not remove the lanyard [5].

NOTE: Each light assembly [1] has a microswitch [2] which sets the light to the off mode when the lens assembly is removed.

- (b) Replace the lamp [7].

- (c) Push the lens assembly [6] back into its position.

NOTE: If the lens assembly smoke penetration prevention tape gasket is missing or damaged, install or replace the foam tape 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** —————

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HAP ALL

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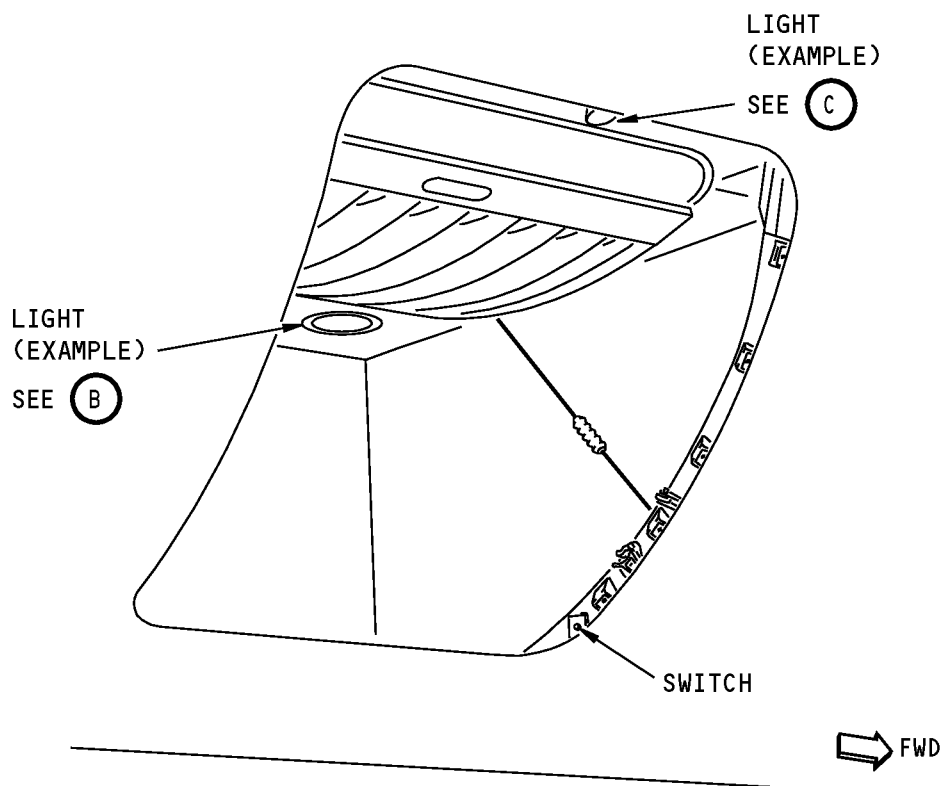
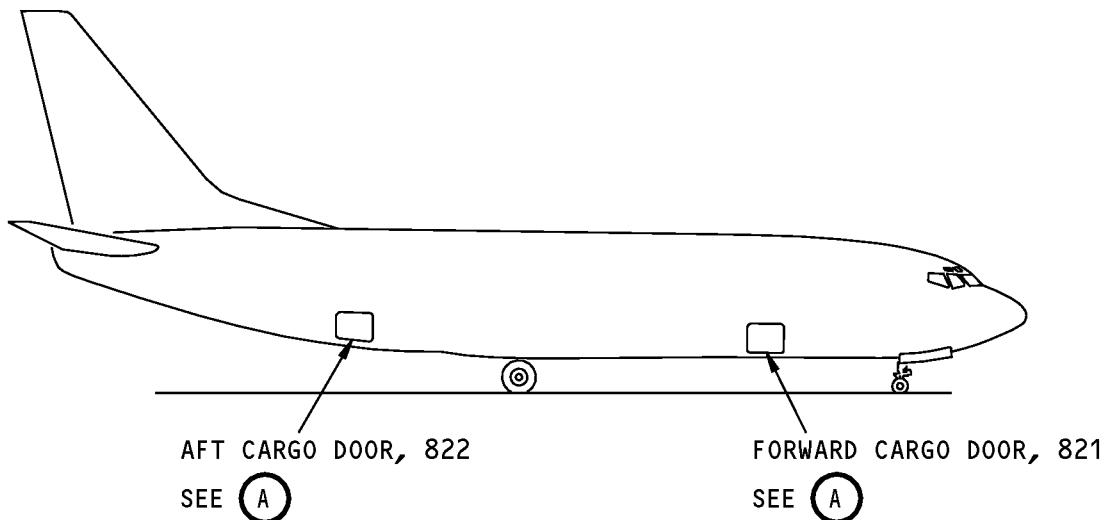
33-36-00

Page 202
Jun 10/2005



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL



VIEW THROUGH FORWARD CARGO DOOR, 821
(AFT CARGO DOOR, 822, IS EQUIVALENT)

(A)

Cargo Compartment Light - Lamp/Light/Lens Assembly Replacement
Figure 201 (Sheet 1 of 3)/33-36-00-990-802

EFFECTIVITY
HAP ALL

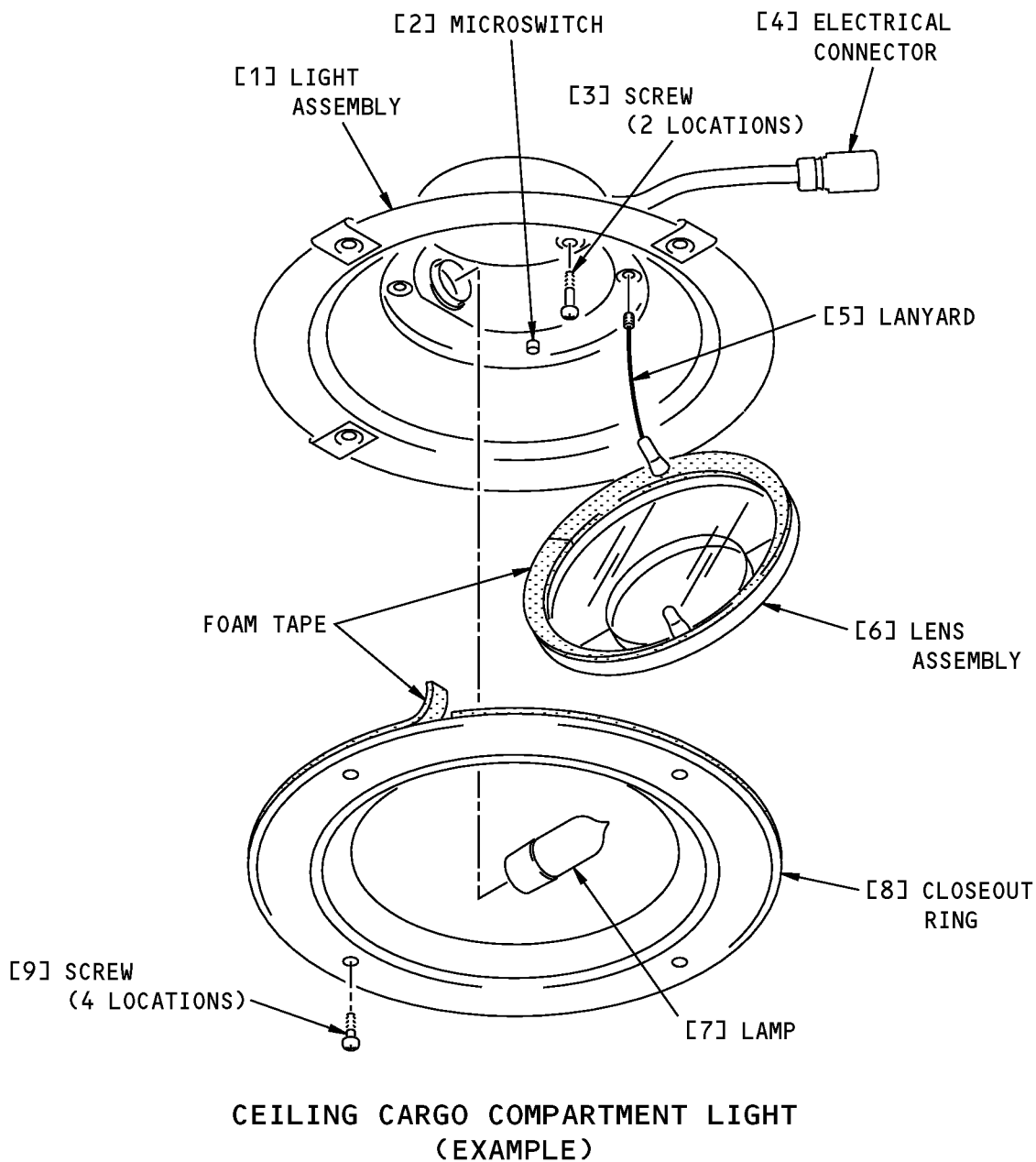
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33-36-00

Page 203
Oct 10/2003

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



(B)

Cargo Compartment Light - Lamp/Light/Lens Assembly Replacement
Figure 201 (Sheet 2 of 3)/33-36-00-990-802

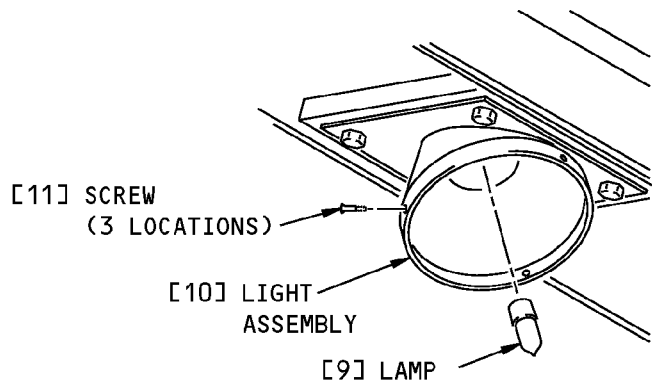
EFFECTIVITY HAP ALL

33-36-00

Page 204
 Jun 10/2005

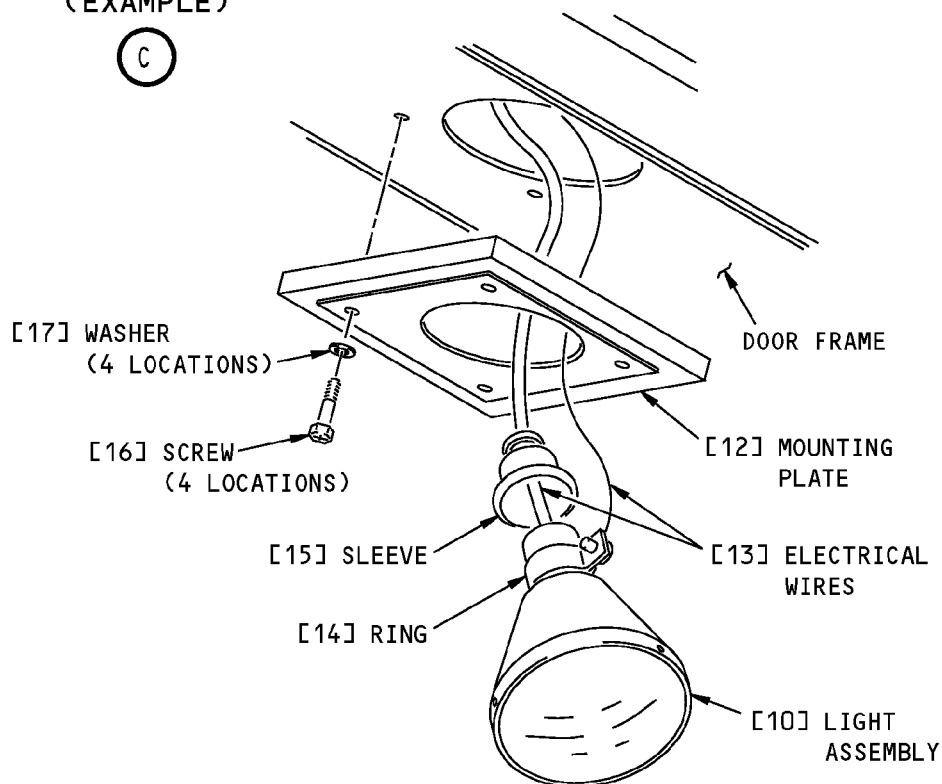
D633A101-HAP

AIRCRAFT MAINTENANCE MANUAL



DOOR CARGO COMPARTMENT LIGHT LAMP REPLACEMENT (EXAMPLE)

(C)



DOOR CARGO COMPARTMENT LIGHT LIGHT ASSEMBLY REPLACEMENT (EXAMPLE)

(C)

Cargo Compartment Light - Lamp/Light/Lens Assembly Replacement
Figure 201 (Sheet 3 of 3)/33-36-00-990-802

EFFECTIVITY
HAP ALL

33-36-00

Page 205
Oct 10/2003

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-36-00-960-802

3. Cargo Compartment Light - Lamp Replacement, Door

(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)
SSM 33-36-11	System Schematics Manual
SSM 33-36-12	System Schematics Manual

B. Location Zones

Zone	Area
122	Forward Cargo Compartment - Right
142	Aft Cargo Compartment - Right

C. Access Panels

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

D. 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 (SSM 33-36-11) (SSM 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.

1) Make sure the lamp goes off.

EFFECTIVITY
HAP ALL

D633A101-HAP

33-36-00

Page 206
Feb 10/2004



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

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** —————

TASK 33-36-00-960-803

4. Cargo Compartment Light - Light Assembly Replacement, Ceiling

(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)
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)
SSM 33-36-11	System Schematics Manual
SSM 33-36-12	System Schematics Manual

B. Consumable Materials

Reference	Description	Specification
B00634	Solvent - Stabilized Limonene Cleaner	BMS11-10 Type 1, 2, or 3
G50360	Seal - Closed Cell Silicone Foam Rubber, Hydraulic Fluid Resistant (with Adhesive)	BMS1-68, Grade A, Form III

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
117A	Electronic Equipment Access Door
821	Forward Cargo Door
822	Aft Cargo Door

EFFECTIVITY
HAP ALL

33-36-00

Page 207
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

E. Procedure

SUBTASK 33-36-00-010-003

- (1) Open this access panel:

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

SUBTASK 33-36-00-860-005

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

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) Pull off the lens assembly [6] but do not remove the lanyard [5].
(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) Replace the Lens:

- 1) If the foam gasket on the lens assembly is worn or missing, before pushing the lens back into place, replace or repair the gasket as follows:
- a) Remove any worn pieces of tape and clean the area with Limonene solvent, B00634.
- b) Cut sufficient lengths of seal, G50360 to create a gasket surface completely around the mating edge of the lens assembly [6].
- c) Press the tape sections into place and trim to fit.
- 2) Push the lens assembly [6] back into its position.

EFFECTIVITY
HAP ALL

D633A101-HAP

33-36-00

Page 208
Oct 10/2005



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (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.

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 [9]:

- (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].

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
HAP ALL

33-36-00

Page 209
Feb 15/2009

D633A101-HAP



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

TASK 33-36-00-960-804

5. Cargo Compartment Light - Light Assembly Replacement, Door

(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)
SSM 33-36-11	System Schematics Manual
SSM 33-36-12	System Schematics 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 33-36-00-010-005

(1) Open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 33-36-00-860-009

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

Open the applicable circuit breakers and install the safety tag:

Power Distribution Panel Number 2, P92

Row	Col	Number	Name
C	4	C00127	CARGO COMPT LT-FWD
C	5	C00128	CARGO COMPT LT-AFT

SUBTASK 33-36-00-940-003

(3) Set up the safety equipment.

SUBTASK 33-36-00-010-006

(4) Open the applicable cargo door:

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

SUBTASK 33-36-00-960-004

(5) Do these steps to replace the light assembly:

EFFECTIVITY
HAP ALL

D633A101-HAP

33-36-00

Page 210
Jun 10/2005



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (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.

SUBTASK 33-36-00-860-012

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

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

D633A101-HAP

33-36-00

Page 211
Jun 10/2005



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

TASK 33-36-00-960-805

6. Cargo Compartment Light - Lens Assembly Replacement, Ceiling

(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)
SSM 33-36-11	System Schematics Manual
SSM 33-36-12	System Schematics Manual

B. Location Zones

Zone	Area
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
821	Forward Cargo Door
822	Aft Cargo Door

D. 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 (SSM 33-36-11) (SSM 33-36-12):

(a) Pull off the lens assembly [6].

NOTE: Each light assembly [1] has a microswitch [2] which sets the light to the off mode when the lens assembly is removed.

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

NOTE: The lens assembly stays attached to the lanyard.

(c) Replace the lens assembly [6] and lanyard [5].

NOTE: A new lanyard will be attached to the new lens assembly.

(d) Connect the new lanyard [5] to the light assembly [1].

(e) Push the new lens assembly [6] into its position.

EFFECTIVITY
HAP ALL

33-36-00

Page 212
Jun 10/2005

D633A101-HAP



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

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:

<u>Number</u>	<u>Name/Location</u>
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** —————

EFFECTIVITY
HAP ALL

D633A101-HAP

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33-36-00

Page 213
Jun 10/2005



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

WING ILLUMINATION LIGHTS - MAINTENANCE PRACTICES

1. General

A. This procedure has these tasks:

- (1) Wing Illumination Light - Lamp Replacement
- (2) Wing Illumination Light - Transformer Replacement
- (3) Wing Illumination Lights - Operational Test

TASK 33-41-00-960-801

2. 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)
SSM 33-41-11	System Schematics 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 fasteners [3] and remove the lens [2].

NOTE: The lanyard stays connected.

- (b) Replace the lamp [1].
- (c) 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.

EFFECTIVITY
HAP ALL

33-41-00

Page 201
Jun 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- 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 .125 inches.
- (d) Install the lens assembly [2] and tighten the fasteners [3] from 18 to 21 pound-inches.
 - 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.

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

D633A101-HAP

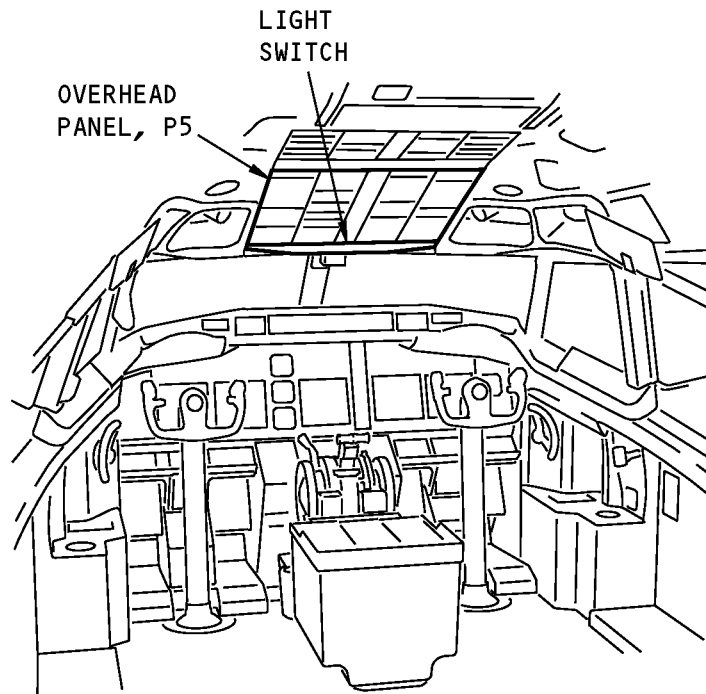
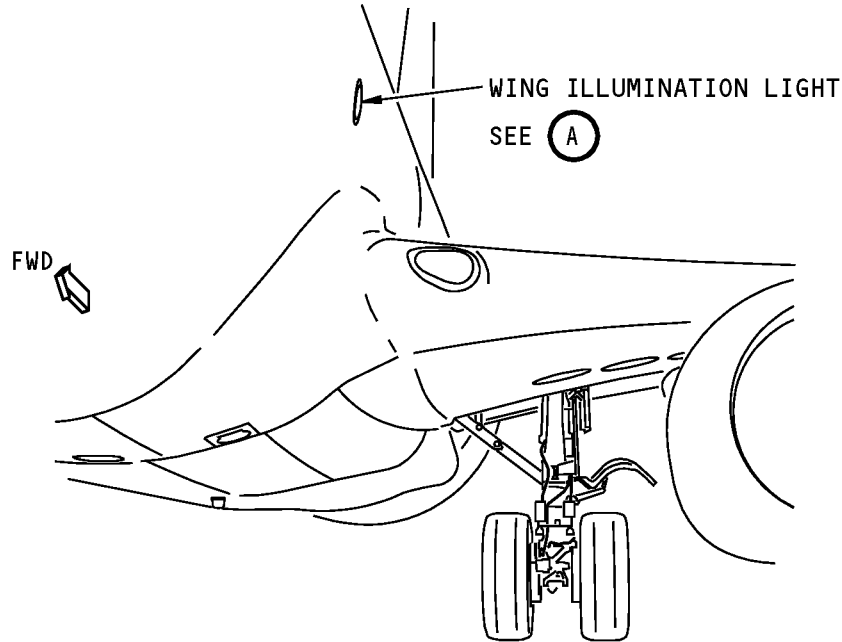
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33-41-00

Page 202
Feb 10/2007



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



FLIGHT COMPARTMENT

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

EFFECTIVITY
HAP ALL

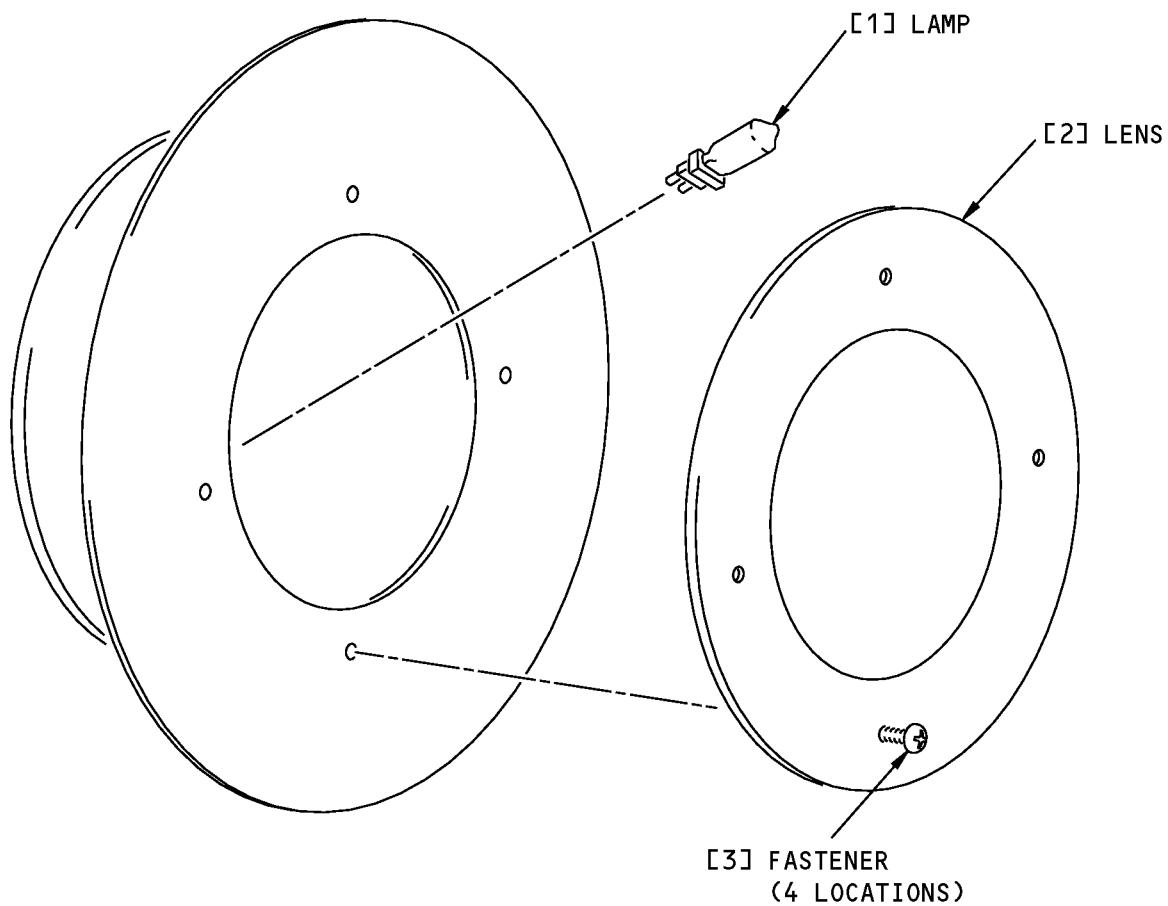
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Page 203
Oct 10/2003

D633A101-HAP



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



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

A

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

EFFECTIVITY
HAP ALL

D633A101-HAP

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33-41-00

Page 204
Oct 10/2003



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-41-00-960-802

3. 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	HAP 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 fasteners [3] and remove the lens [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

EFFECTIVITY
HAP ALL

33-41-00

Page 205
Jun 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

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.

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.
 - (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 fasteners [3] from 18 to 21 pound-inches.
 - 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.

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.

EFFECTIVITY
HAP ALL

33-41-00

Page 206
Jun 15/2009

D633A101-HAP



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

SUBTASK 33-41-00-860-008

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

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

D633A101-HAP

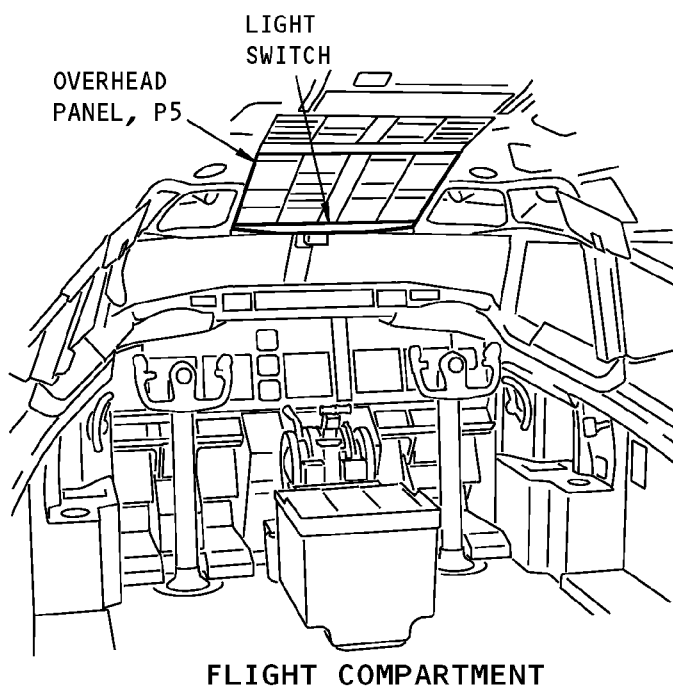
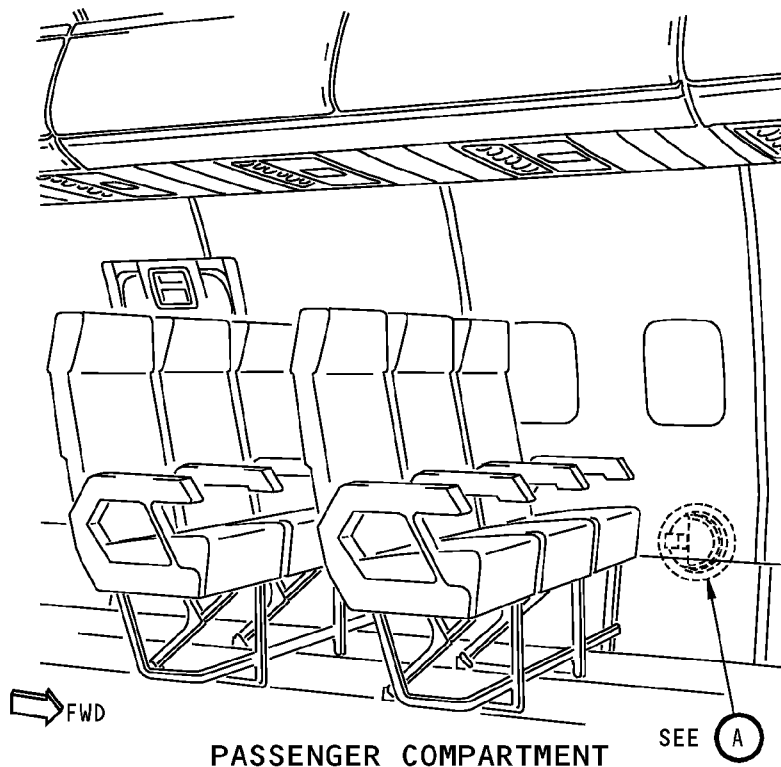
33-41-00

Page 207
Oct 10/2004



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL



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

EFFECTIVITY
HAP ALL

D633A101-HAP

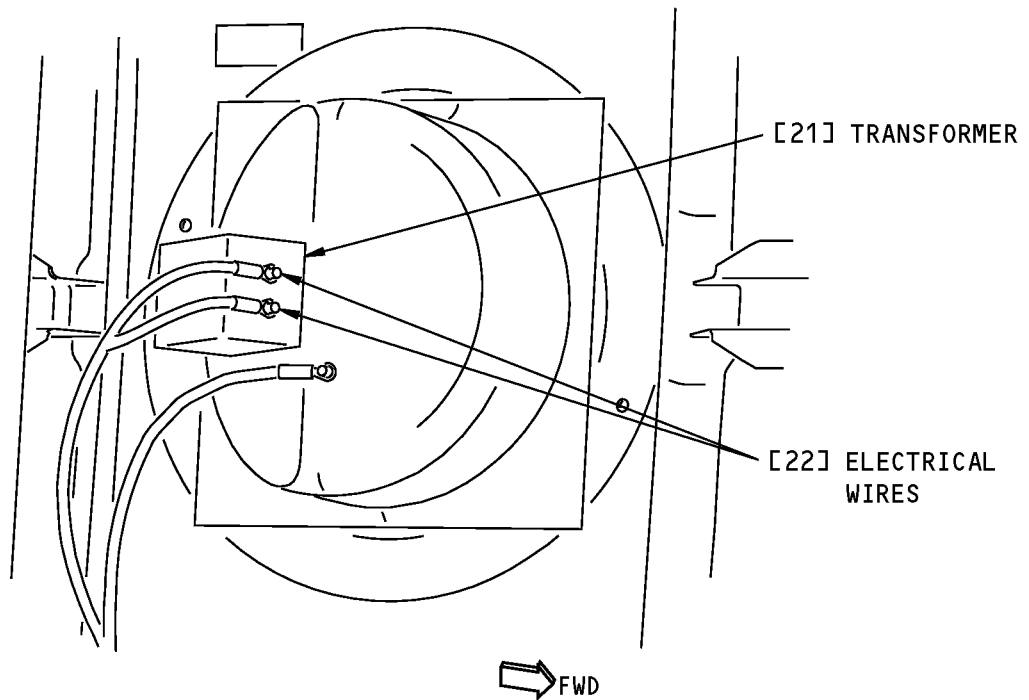
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33-41-00

Page 208
Oct 10/2003



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

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

EFFECTIVITY
HAP ALL

D633A101-HAP

33-41-00

Page 209
Oct 10/2003



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-41-00-710-801

4. Wing Illumination Light - Operational Test

A. References

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

B. Location Zones

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

C. Procedure

SUBTASK 33-41-00-860-009

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

SUBTASK 33-41-00-710-003

(2) Do a test of the wing illumination lights:

(a) At the overhead panel, P5, set the switch for the wing illumination lights to the on mode.

1) Make sure the lights come on.

(b) Set the switch to the off mode.

1) Make sure the lights go off.

SUBTASK 33-41-00-860-010

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

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

D633A101-HAP

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33-41-00

Page 210
Oct 10/2003



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

FIXED LANDING LIGHTS - MAINTENANCE PRACTICES

1. General

A. This procedure has these tasks:

- (1) Fixed Landing Light - Lamp Replacement
- (2) Fixed Landing Light - Light Beam Adjustment
- (3) Fixed Landing Light - Transformer Replacement
- (4) Fixed Landing Light - Lens Temporary Repair

TASK 33-42-01-960-801

2. Fixed Landing Light - Lamp Replacement

(Figure 201)

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)
27-81-00-040-801	Deactivate the Leading Edge Flaps and Slats (P/B 201)
27-81-00-440-801	Reactivate the Leading Edge Flaps and Slats (P/B 201)
SSM 33-42-11	System Schematics 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. Location Zones

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

D. Procedure

SUBTASK 33-42-01-860-001

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

SUBTASK 33-42-01-860-002

- (2) Do this task: Deactivate the Leading Edge Flaps and Slats, TASK 27-81-00-040-801.

SUBTASK 33-42-01-860-003

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
B	15	C00271	EXTERIOR LIGHTING LANDING LEFT FIXED
C	14	C00272	EXTERIOR LIGHTING LANDING RIGHT FIXED

EFFECTIVITY
HAP ALL

33-42-01

Page 201
Jun 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 33-42-01-010-001

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

NOTE: The lanyard [2] stays connected.

SUBTASK 33-42-01-960-001

- (5) 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 (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.

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

NOTE: It is optional to seal the electrical connection.

NOTE: The sealant does not have to become tack-free prior to the completion of this procedure and dispatch of the airplane.

- (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 201).

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
HAP ALL

33-42-01

Page 202
Jun 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 33-42-01-860-004

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

SUBTASK 33-42-01-710-001

- (7) 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) Do a visual check to make sure the light beam points in the correct direction (Figure 202).

- a) 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

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

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

1) Remove and discard the damaged tape.

2) Apply Skyflex tape, G50066, around the perimeter of the lens opening.

- a) If the tape is too long, fold it to fit the opening, but not more than four times.

NOTE: Do not stretch the tape.

3) Use a sharp tool to make a .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).

SUBTASK 33-42-01-860-005

- (9) Do this task: Reactivate the Leading Edge Flaps and Slats, TASK 27-81-00-440-801.

SUBTASK 33-42-01-860-006

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

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

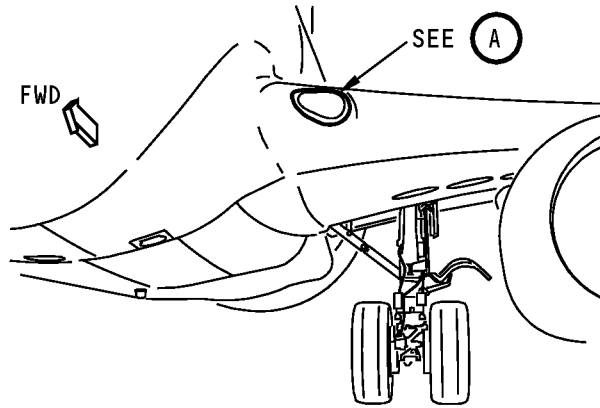
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33-42-01

Page 203
Jun 15/2009

AIRCRAFT MAINTENANCE MANUAL



FIXED
LANDING
LIGHT

SEE (B)

[1] STUD
(15 LOCATIONS)

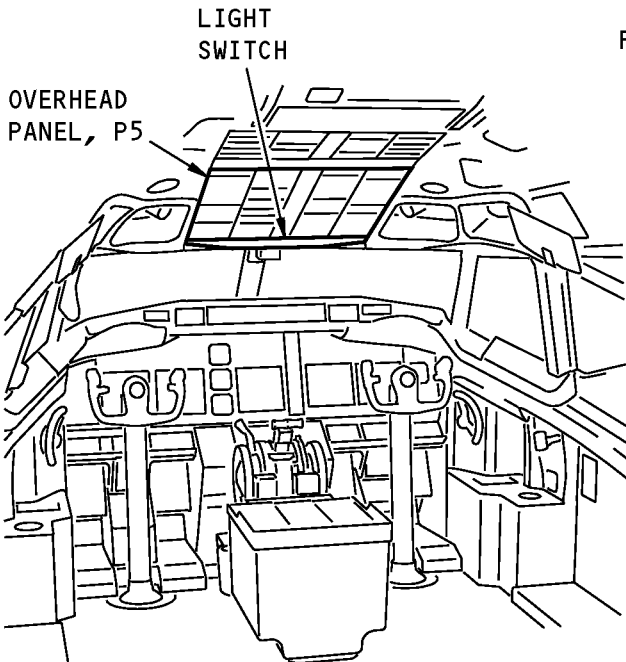
[3] LENS
ASSEMBLY

[2] LANYARD

FWD

STRAKELET
(LEFT SIDE IS SHOWN,
RIGHT SIDE IS EQUIVALENT)

(A)



FLIGHT COMPARTMENT

Fixed Landing Light - Lamp Replacement
Figure 201 (Sheet 1 of 2)/33-42-01-990-801

EFFECTIVITY
HAP ALL

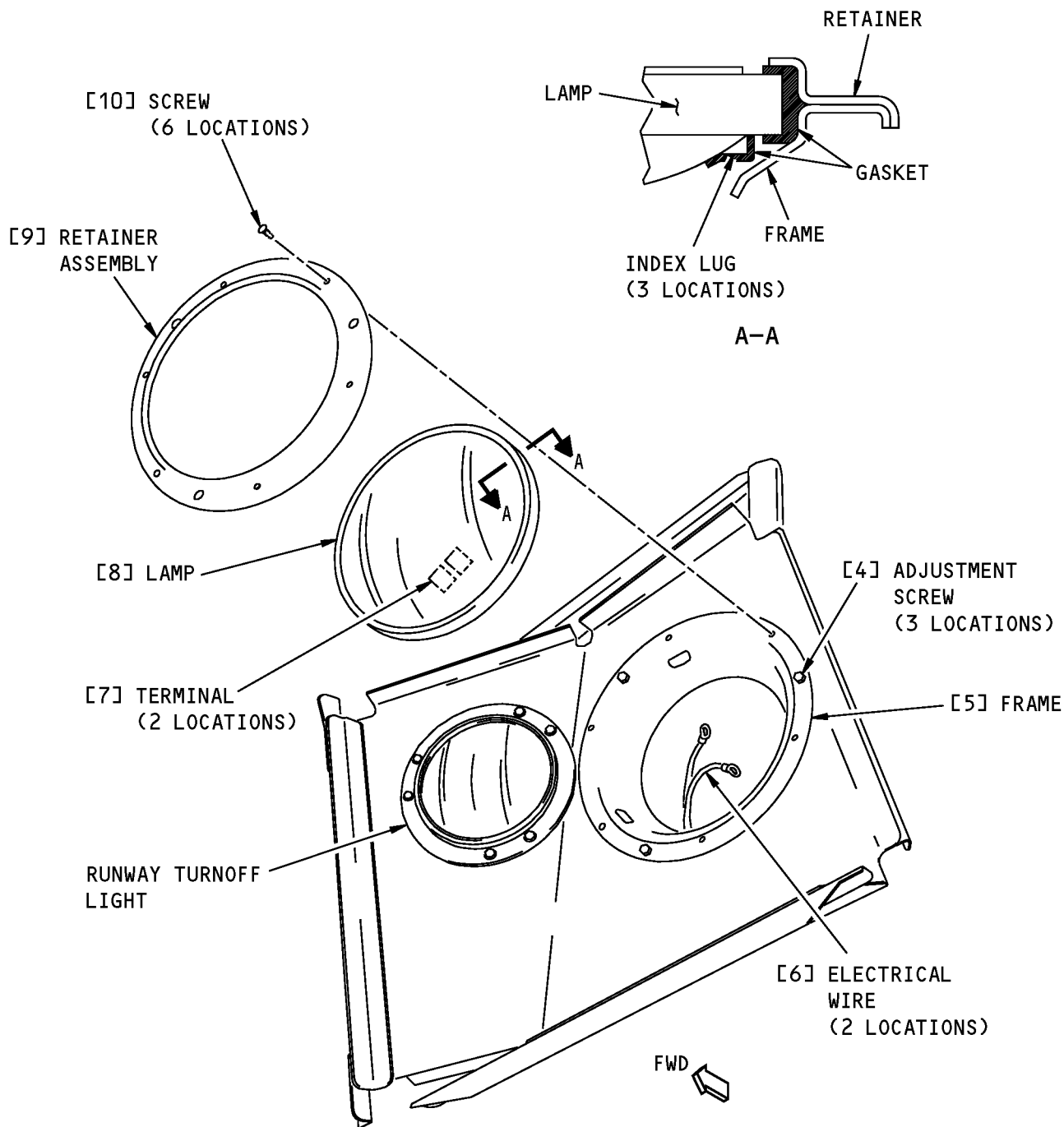
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33-42-01

Page 204
Oct 10/2003

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



FIXED LANDING LIGHT

(B)

Fixed Landing Light - Lamp Replacement
Figure 201 (Sheet 2 of 2)/33-42-01-990-801

EFFECTIVITY
HAP ALL

33-42-01

Page 205
Oct 10/2003

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-42-01-820-801

3. Fixed Landing Light - Light Beam Adjustment

(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)
27-81-00-040-801	Deactivate the Leading Edge Flaps and Slats (P/B 201)
27-81-00-440-801	Reactivate the Leading Edge Flaps and Slats (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 202.

NOTE: A marker can be any item large enough to be seen from a distance.

SUBTASK 33-42-01-860-007

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

SUBTASK 33-42-01-860-008

- (4) Do this task: Deactivate the Leading Edge Flaps and Slats, TASK 27-81-00-040-801.

SUBTASK 33-42-01-010-002

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

NOTE: The lanyard [2] stays connected.

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.

SUBTASK 33-42-01-860-010

- (8) At the P5 panel, set the switch for the fixed landing light to the off mode.

EFFECTIVITY
HAP ALL

33-42-01

Page 206
Oct 10/2007

D633A101-HAP



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

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 .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).

SUBTASK 33-42-01-860-011

(10) Do this task: Reactivate the Leading Edge Flaps and Slats, TASK 27-81-00-440-801.

SUBTASK 33-42-01-860-012

(11) 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
HAP ALL

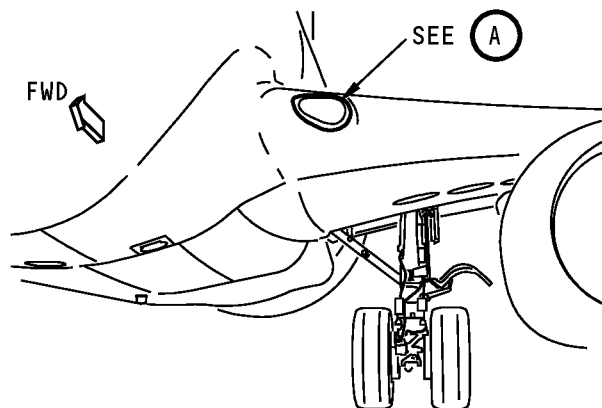
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33-42-01

Page 207
Oct 10/2007

AIRCRAFT MAINTENANCE MANUAL



FIXED
LANDING
LIGHT

SEE (B)

[1] STUD
(15 LOCATIONS)

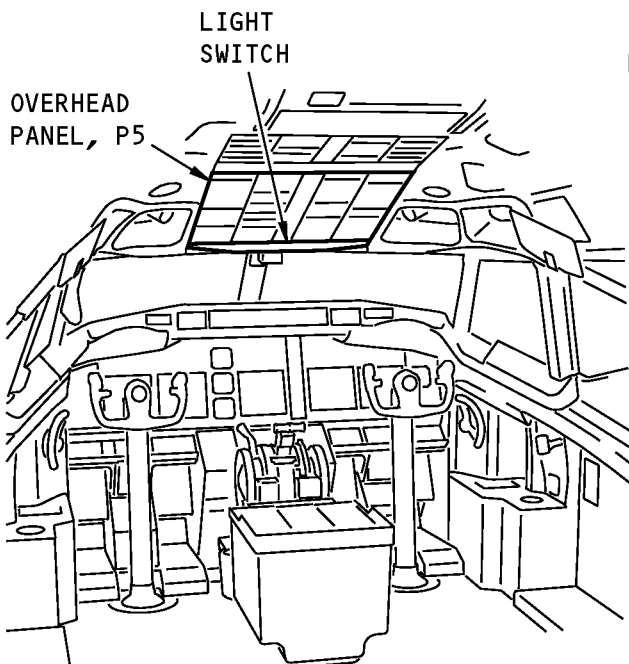
[3] LENS
ASSEMBLY

[2] LANYARD

FWD

STRAKELET
(LEFT SIDE IS SHOWN,
RIGHT SIDE IS EQUIVALENT)

(A)



FLIGHT COMPARTMENT

Fixed Landing Light - Light Beam Adjustment
Figure 202 (Sheet 1 of 2)/33-42-01-990-802

EFFECTIVITY
HAP ALL

D633A101-HAP

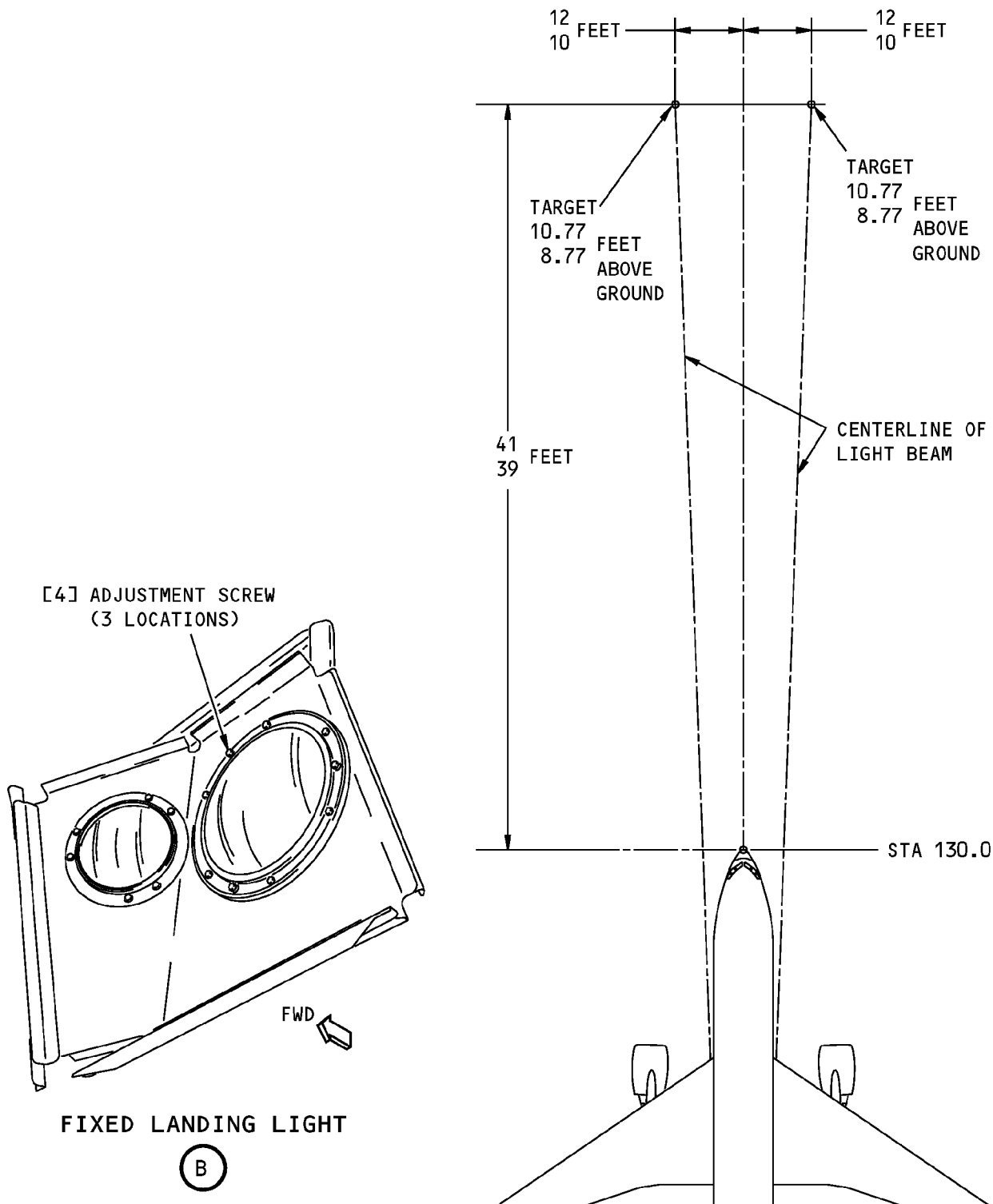
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33-42-01

Page 208
Oct 10/2003



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



Fixed Landing Light - Light Beam Adjustment
Figure 202 (Sheet 2 of 2)/33-42-01-990-802

EFFECTIVITY
HAP ALL

D633A101-HAP

33-42-01

Page 209
Oct 10/2003



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-42-01-960-802

4. Fixed Landing Light - Transformer 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)
27-81-00-040-801	Deactivate the Leading Edge Flaps and Slats (P/B 201)
27-81-00-440-801	Reactivate the Leading Edge Flaps and Slats (P/B 201)
SSM 33-42-11	System Schematics Manual

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 33-42-01-860-013

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

SUBTASK 33-42-01-860-014

(2) Do this task: Deactivate the Leading Edge Flaps and Slats, TASK 27-81-00-040-801.

SUBTASK 33-42-01-860-015

(3) Open the applicable circuit breaker and install the safety tag:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
B	15	C00271	EXTERIOR LIGHTING LANDING LEFT FIXED
C	14	C00272	EXTERIOR LIGHTING LANDING RIGHT FIXED

SUBTASK 33-42-01-010-003

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

NOTE: The lanyard [2] stays connected.

SUBTASK 33-42-01-960-002

(5) Do these steps to replace the transformer:

- Loosen the nuts and disconnect the electrical wires [41] from the transformer.
 - 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].

EFFECTIVITY
HAP ALL

33-42-01

Page 210
Oct 10/2007

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (e) Connect the electrical wires [41] to the new transformer and tighten the nuts.

NOTE: Use the nuts on the new transformer.

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

SUBTASK 33-42-01-860-016

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

SUBTASK 33-42-01-710-002

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

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

SUBTASK 33-42-01-410-003

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

- (a) If the tape around the perimeter of the lens opening is damaged, do these steps:
- 1) Remove and discard the damaged tape.
- 2) Apply Skyflex tape, G50066, around the perimeter of the lens opening.
- a) If the tape is too long, fold it to fit the opening, but not more than four times.

NOTE: Do not stretch the tape.

- 3) Use a sharp tool to make a .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).

SUBTASK 33-42-01-860-017

- (9) Do this task: Reactivate the Leading Edge Flaps and Slats, TASK 27-81-00-440-801.

SUBTASK 33-42-01-860-018

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

————— **END OF TASK** —————

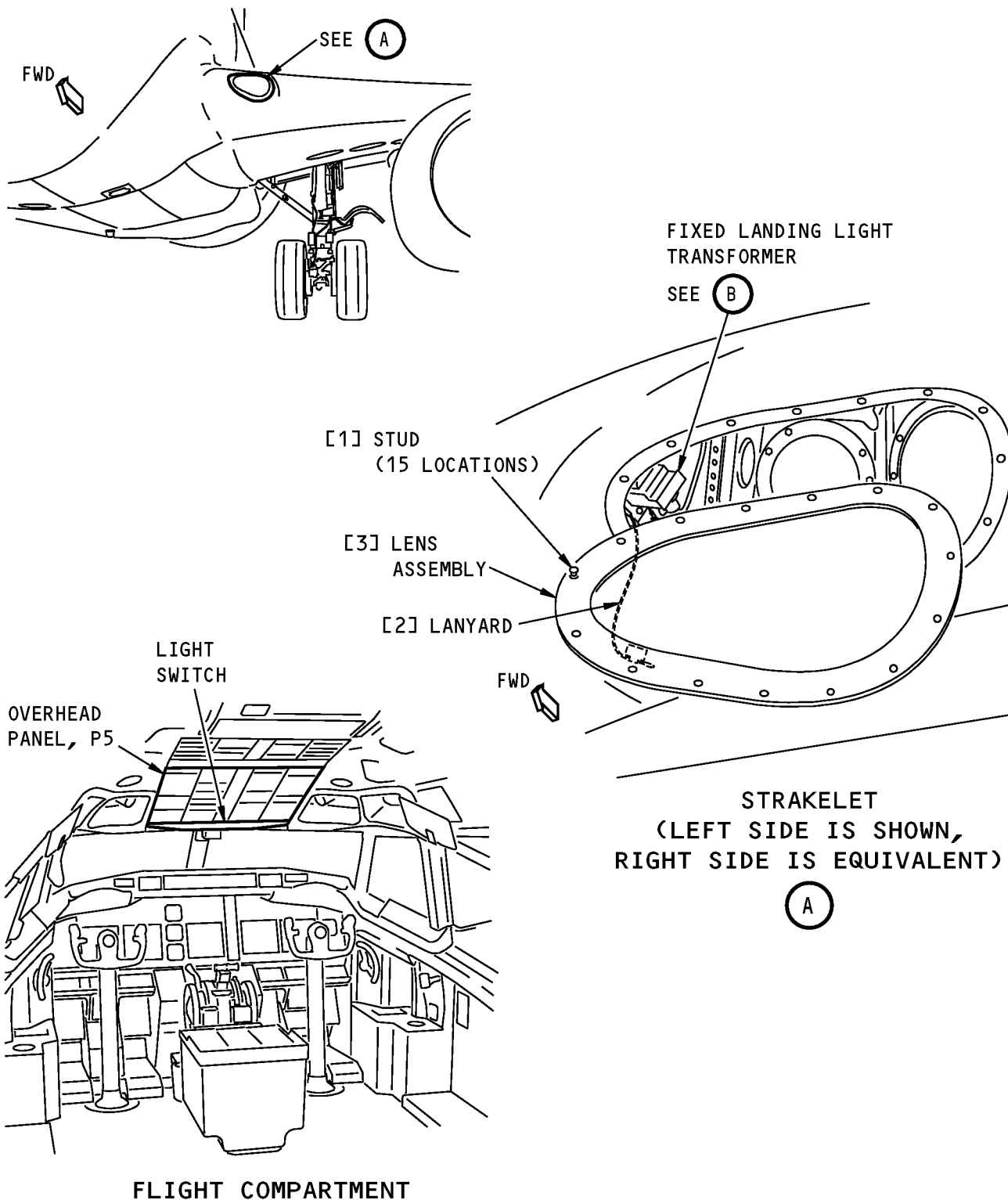
EFFECTIVITY
HAP ALL

33-42-01

Page 211
Oct 10/2007

D633A101-HAP

AIRCRAFT MAINTENANCE MANUAL



Fixed Landing Light - Transformer Replacement
Figure 203 (Sheet 1 of 2)/33-42-01-990-803

EFFECTIVITY
HAP ALL

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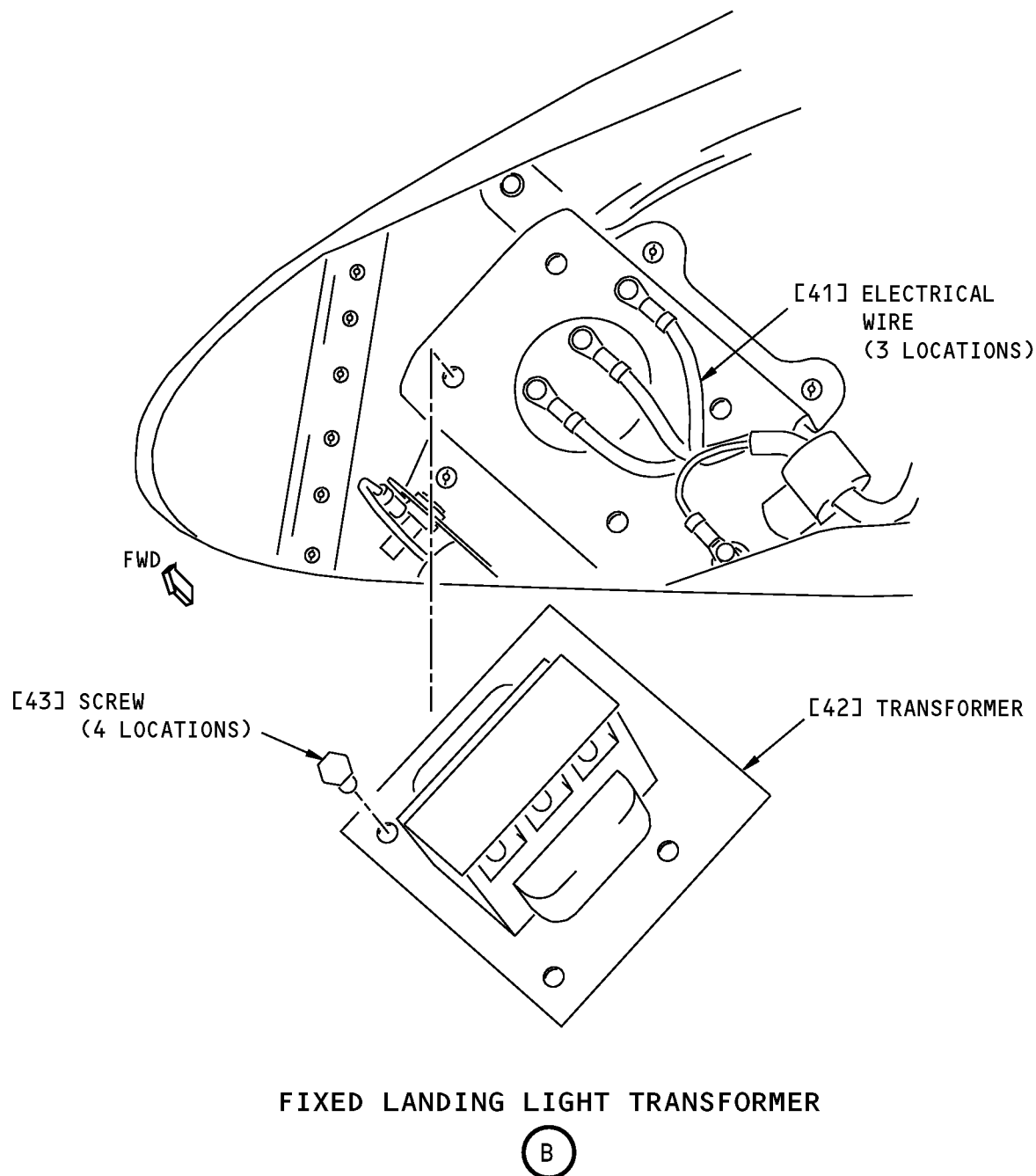
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33-42-01

Page 212
Oct 10/2003



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



Fixed Landing Light - Transformer Replacement
Figure 203 (Sheet 2 of 2)/33-42-01-990-803

EFFECTIVITY
HAP ALL

D633A101-HAP

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33-42-01

Page 213
Oct 10/2003



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-42-01-350-801

5. 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
27-81-00-040-801	Deactivate the Leading Edge Flaps and Slats (P/B 201)
27-81-00-440-801	Reactivate the Leading Edge Flaps and Slats (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 33-42-01-860-019

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 this task: Deactivate the Leading Edge Flaps and Slats, TASK 27-81-00-040-801

SUBTASK 33-42-01-860-020

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
B	15	C00271	EXTERIOR LIGHTING LANDING LEFT FIXED
C	12	C00245	EXTERIOR LIGHTING RUNWAY TURNOFF RIGHT
C	13	C00244	EXTERIOR LIGHTING RUNWAY TURNOFF LEFT
C	14	C00272	EXTERIOR LIGHTING LANDING RIGHT FIXED

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].

EFFECTIVITY
HAP ALL

33-42-01

Page 214
Jun 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

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.

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 $\pm$ 0.031 in. (2.388 $\pm$ 0.788 mm) thick.
 - 2) Drill 0.274 $\pm$ 0.006 in. (6.960 $\pm$ 0.153 mm) diameter holes and countersink to 0.4015 $\pm$ 0.0025 in. (10.1981 $\pm$ 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.

SUBTASK 33-42-01-350-002

- (5) Do these steps to install the temporary cover [5]:
 - (a) Make each aluminum strip align with the contour of the broken lens assembly.
 - (b) Attach the shim (if one is necessary) and each aluminum strip with the studs [1].

NOTE: Do not use the ring [4].

 - 1) Bring the aluminum strips up to contour, 0.126 $\pm$ 0.040 in. (3.200 $\pm$ 1.016 mm).
 - (c) Cover all gaps with speed Vibration Damping Tape 434 tape, G02329.

NOTE: The gaps between the aluminum strips should be 0.10 $\pm$ 0.10 in. (2.54 $\pm$ 2.54 mm) wide. The gaps between the aluminum strips and the opening should be 0.060 $\pm$ 0.060 in. (1.524 $\pm$ 1.524 mm) wide.

G. Put the Airplane Back to Its Usual Condition

SUBTASK 33-42-01-860-021

- (1) Do this task: Reactivate the Leading Edge Flaps and Slats, TASK 27-81-00-440-801.

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

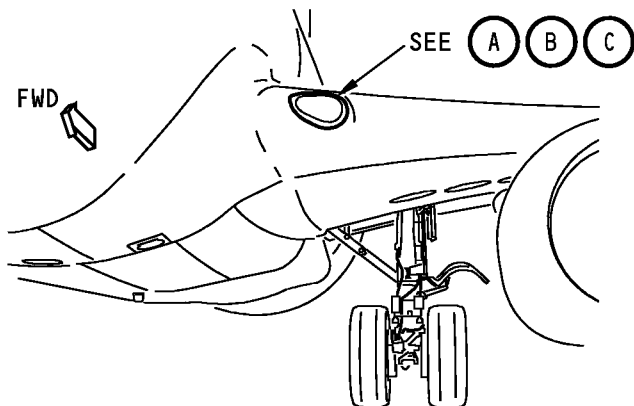
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Page 215
Jun 15/2009

D633A101-HAP

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AIRCRAFT MAINTENANCE MANUAL



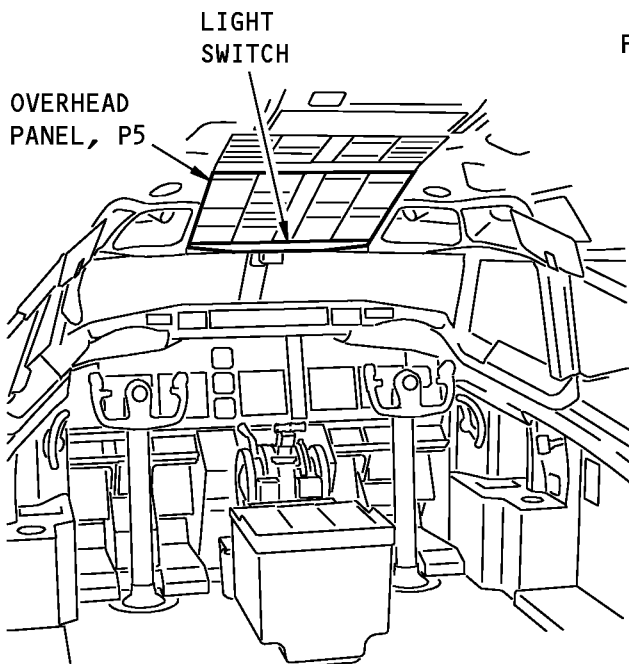
[1] STUD
(15 LOCATIONS)

[3] LENS
ASSEMBLY

[2] LANYARD

FIXED
LANDING
LIGHT

FWD



STRAKELET
(LEFT SIDE IS SHOWN,
RIGHT SIDE IS EQUIVALENT)

A

FLIGHT COMPARTMENT

1750616 S0000316014_V1

Fixed Landing Light - Lens Temporary Repair
Figure 204 (Sheet 1 of 2)/33-42-01-990-804

EFFECTIVITY
HAP ALL

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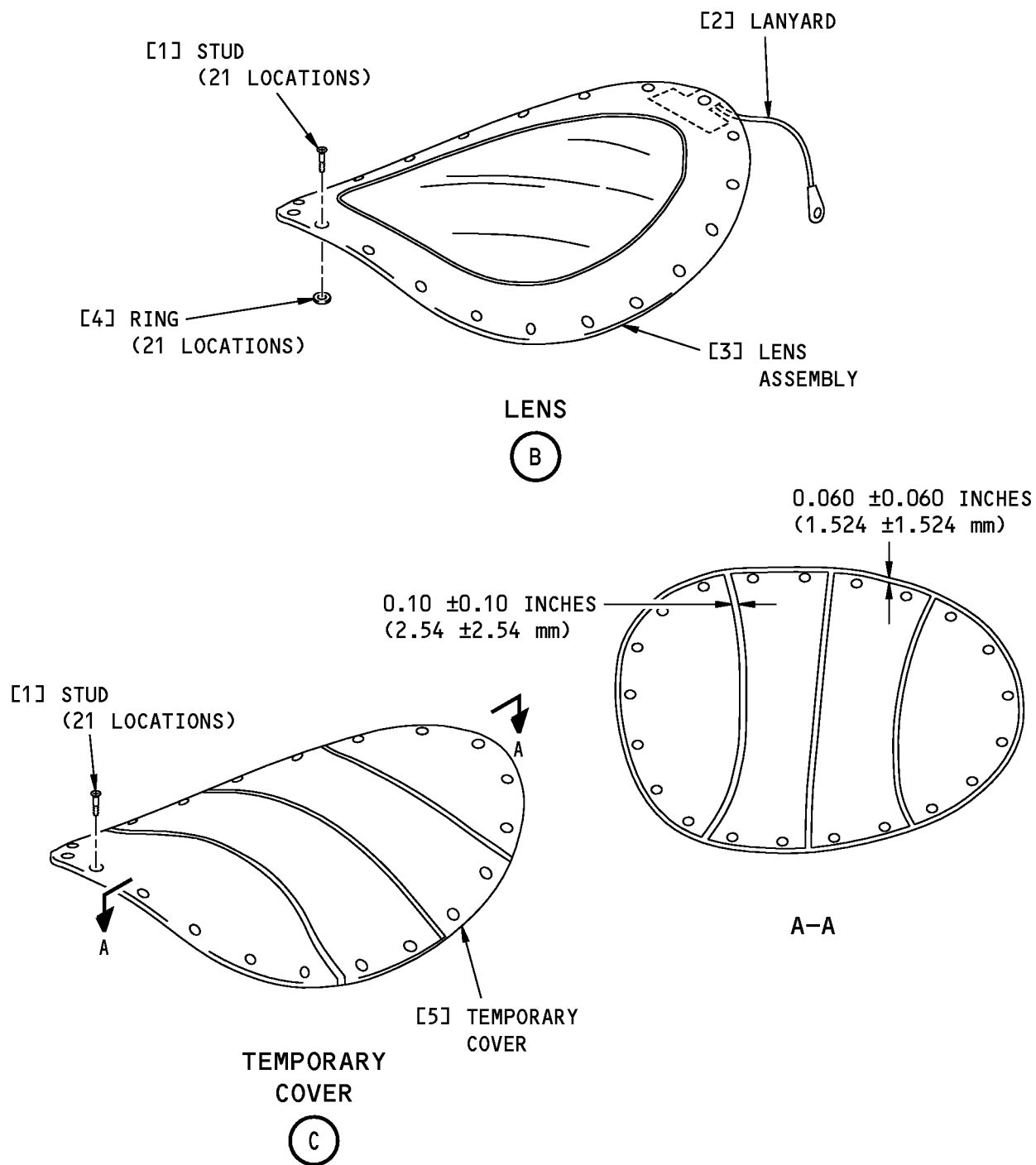
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33-42-01

Page 216
Jun 15/2009



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



1750629 S0000316015_V1

Fixed Landing Light - Lens Temporary Repair
Figure 204 (Sheet 2 of 2)/33-42-01-990-804

EFFECTIVITY
HAP ALL

D633A101-HAP

33-42-01

Page 217
Jun 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

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 - Lamp Replacement
- (2) Retractable Landing Light - Retainer Assembly Removal/Installation
- (3) Retractable Landing Light - Light Assembly Replacement
- (4) Retractable Landing Light - Light Adjustment

TASK 33-42-02-960-801

2. Retractable Landing Light - Lamp Replacement

(Figure 201)

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)
SSM 33-42-11	System Schematics Manual

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
2	Lamp	33-42-02-01-090	HAP ALL

D. Location Zones

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

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

Row	Col	Number	Name
B	14	C00274	EXTERIOR LIGHTING LANDING RIGHT RETR
C	15	C00273	EXTERIOR LIGHTING LANDING LEFT RETR

SUBTASK 33-42-02-960-001

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

- (a) Loosen the fasteners [5].
- (b) Pull the retainer assembly [1] and lamp [2] from the housing.

NOTE: The lanyard [6] stays connected.

- (c) Disconnect the electrical wires [3] from the back of the lamp.

EFFECTIVITY
HAP ALL

33-42-02

Page 201
Jun 15/2008

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (d) Remove the lamp [2].
- (e) Connect the electrical wires [3] to the new lamp.
- (f) Do these steps to install the new lamp [2] against the back of the retainer assembly [1].
 - 1) If a gasket 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.
 - 2) Turn the lamp until one lug is in the top position and the lamp filament is in a horizontal position to the ground when the light is extended.

HAP ALL; AIRPLANES WITH THE RETAINER ASSEMBLY WITH THREE CUTOUTS FOR LAMP LUGS

- 3) Align the top lamp lug with the cutout in the top of the retainer assembly [1].

NOTE: If the lug at the top of the lamp is aligned correctly, all three lugs on the back of the lamp will fit into the cutouts in the housing. The gasket material [4] on the rim of the housing is flexible, which will permit the lugs to fit into the corresponding housing cutouts.

HAP ALL; AIRPLANES WITH THE RETAINER ASSEMBLY WITH A LAMP RETENTION BRACKET

- 4) Align the top lamp lug with the cutout in the lamp retention bracket [7].
 - a) Attach the end of the lamp retention bracket around the post near the center of the lamp.

HAP ALL

- (g) Install the lamp [2] and retainer assembly [1] in the housing.
- (h) 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.

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.

EFFECTIVITY
HAP ALL

33-42-02

Page 202
Feb 10/2007

D633A101-HAP

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737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 33-42-02-860-005

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

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

D633A101-HAP

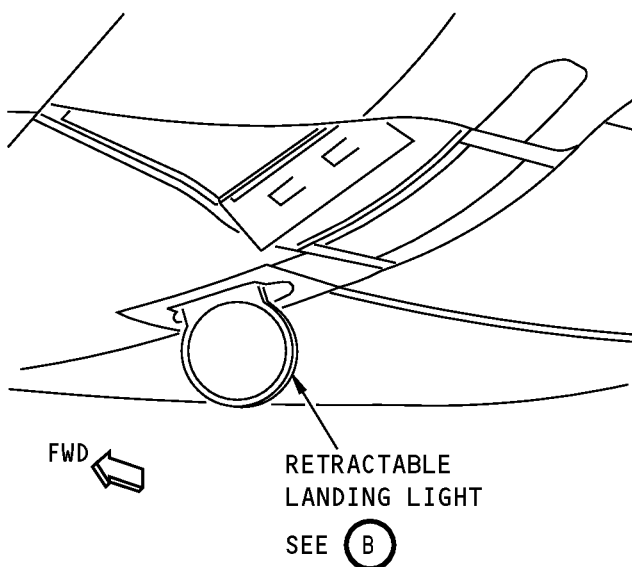
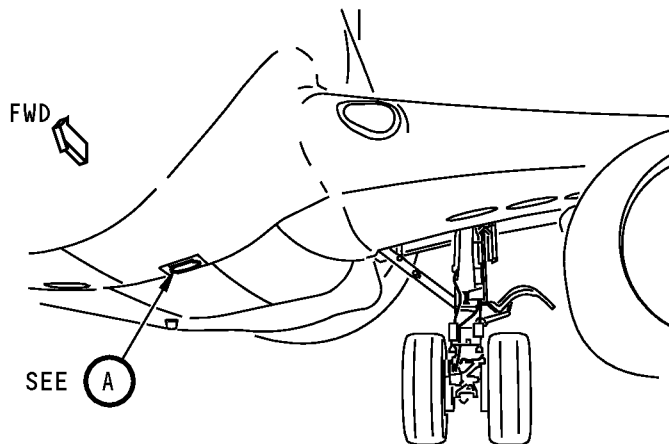
33-42-02

Page 203
Oct 10/2003



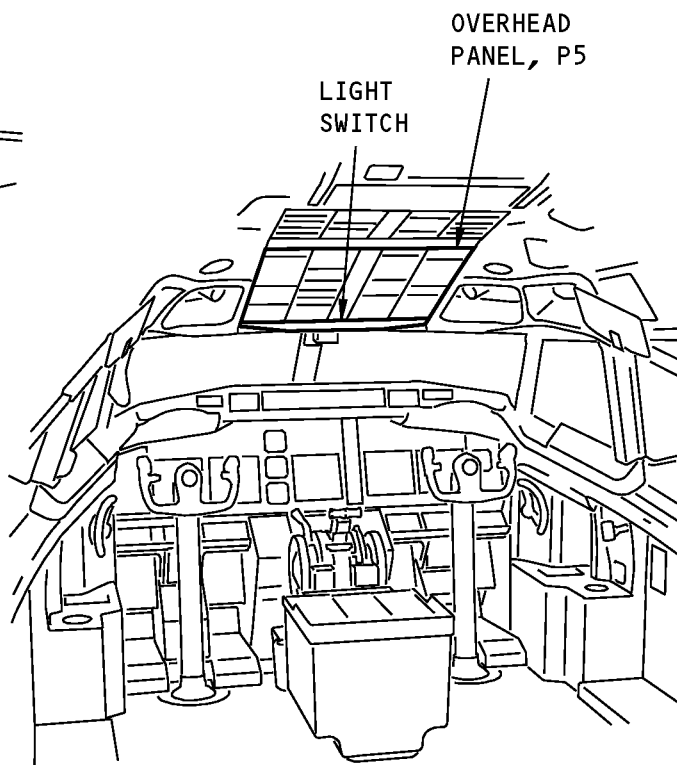
737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL



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

(A)



FLIGHT COMPARTMENT

Retractable Landing Light - Lamp Replacement
Figure 201 (Sheet 1 of 2)/33-42-02-990-801

EFFECTIVITY
HAP ALL

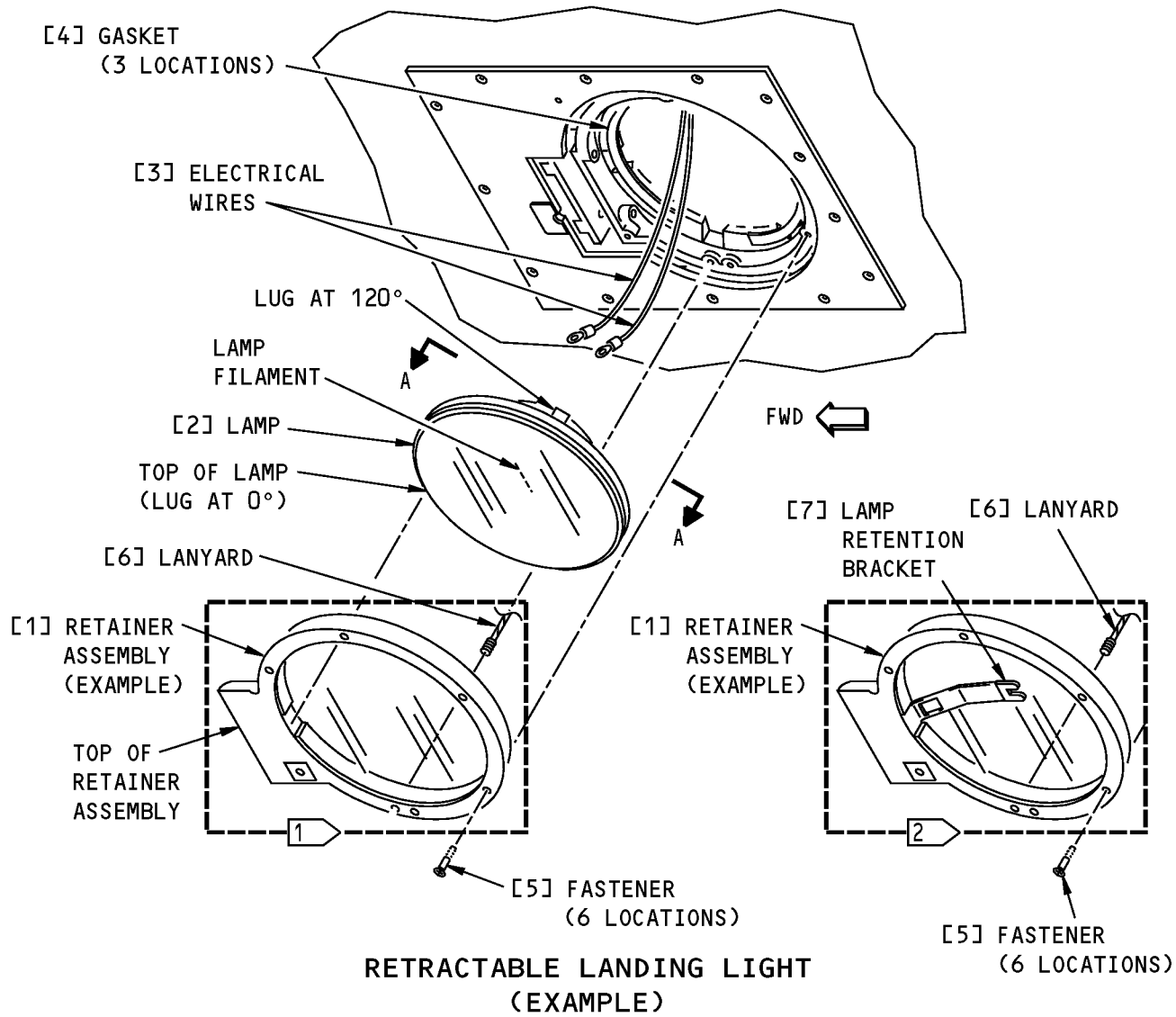
33-42-02

Page 204
Oct 10/2003

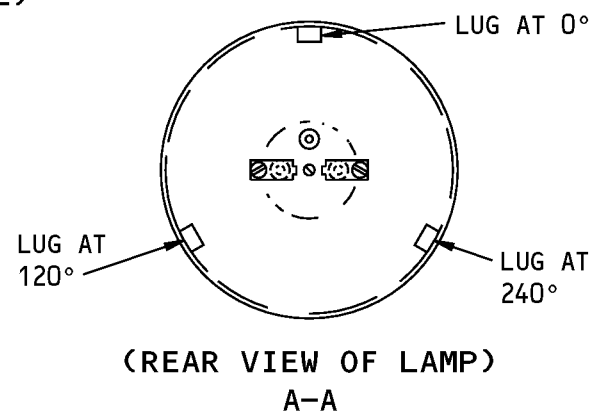
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AIRCRAFT MAINTENANCE MANUAL



- 1 RETAINER ASSEMBLY WITH
3 LAMP LUG CUTOUTS
- 2 RETAINER ASSEMBLY WITH
A LAMP RETENTION BRACKET



Retractable Landing Light - Lamp Replacement
Figure 201 (Sheet 2 of 2)/33-42-02-990-801

EFFECTIVITY
HAP ALL

33-42-02



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-42-02-960-804

3. Retractable Landing Light - Retainer Assembly Removal/Installation

(Figure 201)

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	HAP ALL

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.

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].

EFFECTIVITY
HAP ALL

33-42-02

Page 206
Jun 15/2008

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

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

4. Retractable Landing 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)
51-21-99-300-801	Decorative Exterior Paint System Application (P/B 701)
SSM 33-42-11	System Schematics Manual

B. Consumable Materials

Reference	Description	Specification
C00528	Compound - Corrosion Preventive, Petroleum Hot Application (Soft Film)	MIL-C-11796, Class III

C. Location Zones

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

D. Access Panels

Number	Name/Location
192CL	Air Conditioning Access Door
192CR	Air Conditioning Access Door

E. 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

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:

Number	Name/Location
192CL	Air Conditioning Access Door
192CR	Air Conditioning Access Door

EFFECTIVITY
HAP ALL

33-42-02

Page 207
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 33-42-02-960-002

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

- (a) Disconnect the electrical connector [25].
- (b) Remove the nuts, [22] and [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 nuts, [22] and [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.

1) Make sure the light extends fully, 78 1/2 degrees.

a) If it is necessary to adjust the light, do this task: Retractable Landing Light - Light Adjustment, TASK 33-42-02-960-803.

(b) Set the switch to the on mode.

1) Make sure the light comes on.

(c) 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.

EFFECTIVITY
HAP ALL

33-42-02

Page 208
Oct 10/2007

D633A101-HAP



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

SUBTASK 33-42-02-010-002

(7) Close the applicable access panel:

<u>Number</u>	<u>Name/Location</u>
192CL	Air Conditioning Access Door
192CR	Air Conditioning 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.

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

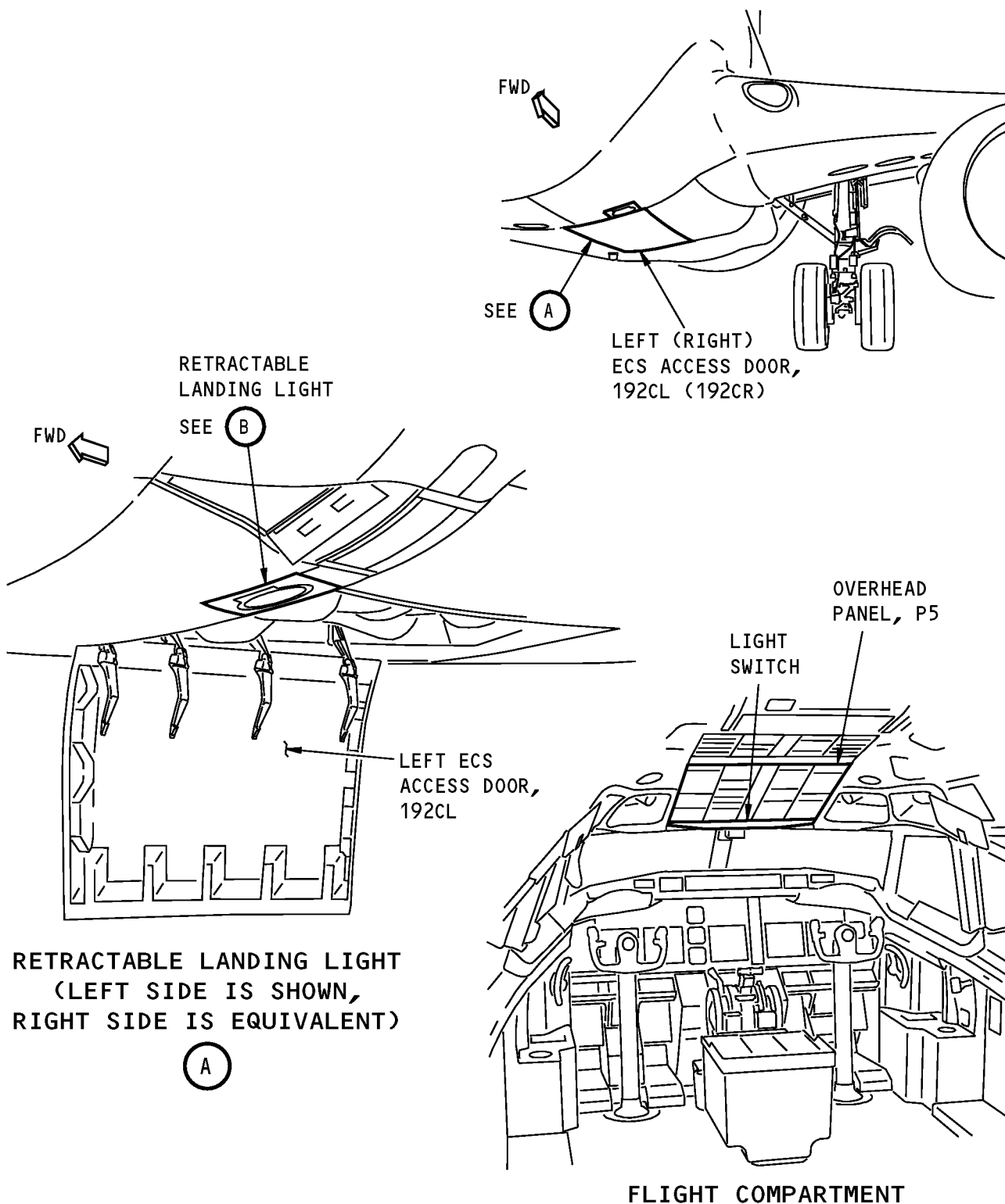
D633A101-HAP

33-42-02

Page 209
Jun 10/2006



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



Retractable Landing Light - Light Assembly Replacement
Figure 202 (Sheet 1 of 2)/33-42-02-990-802

EFFECTIVITY
HAP ALL

D633A101-HAP

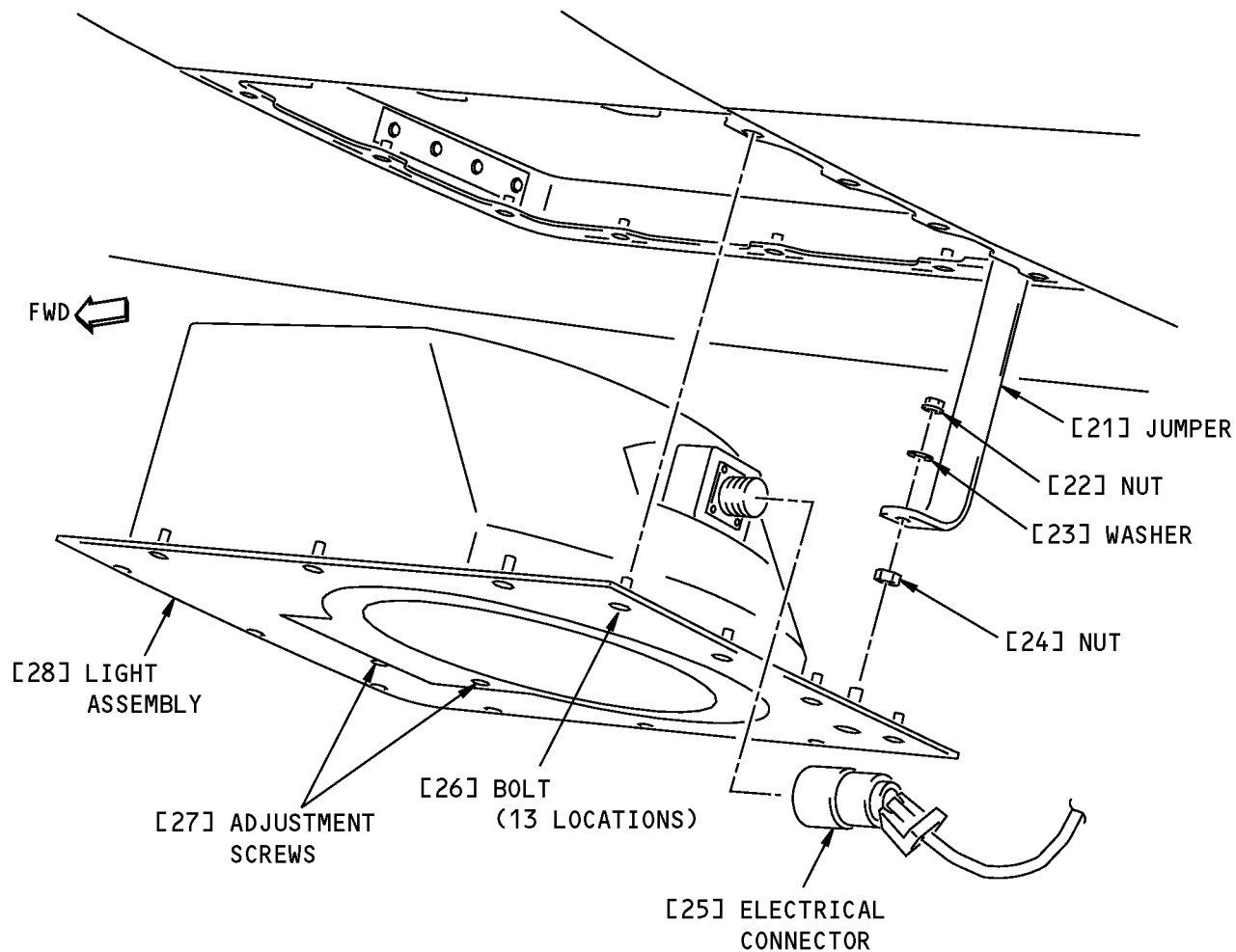
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33-42-02

Page 210
Oct 10/2003



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



RETRACTABLE LANDING LIGHT

(B)

Retractable Landing Light - Light Assembly Replacement
Figure 202 (Sheet 2 of 2)/33-42-02-990-802

EFFECTIVITY
HAP ALL

33-42-02

Page 211
Oct 10/2003

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-42-02-960-803

5. Retractable Landing Light - Light Adjustment

(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
123	Forward Cargo Compartment - Left
124	Forward Cargo Compartment - Right

C. 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:

- At the overhead panel, P5, set the switch for the retractable landing light to the extend mode.
- Make sure the light extends fully, 78 1/2 degrees.
- 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.

- Turn the applicable adjustment screw [27] approximately 90 degrees.
- 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.

- If the light does not extend fully, adjust the light again.
- Set the switch to the retract mode.
 - Make sure the light retracts fully.
 - 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.

- Turn the applicable adjustment screw [27] approximately 90 degrees.
- 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.

- If the light does not retract fully, adjust the light again.

EFFECTIVITY
HAP ALL

33-42-02

Page 212
Feb 10/2005

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 33-42-02-860-011

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

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

D633A101-HAP

33-42-02

Page 213
Oct 10/2003



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

WINGLET POSITION LIGHTS - MAINTENANCE PRACTICES

1. General

A. This procedure has these tasks:

- (1) Position Light - Transformer Replacement
- (2) Position Lights - Operational Test

HAP ALL; AIRPLANES WITH SINGLE FORWARD LENS CONFIGURATION

- (3) Position Lights - Disconnect the Electrical Connector
- (4) Position Lights - Connect the Electrical Connector

HAP ALL; AIRPLANES WITH WINGLETS

TASK 33-43-10-960-801

2. 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)
SSM 33-43-11	System Schematics 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	Meter - Bonding (Approved Explosion Proof & Intrinsically Safe) (Part #: C15292 (MODEL T477W), Supplier: 01014, A/P Effectivity: 737-ALL) (Part #: M1, Supplier: 3AD17, A/P Effectivity: 737-ALL) (Part #: M1B, Supplier: 3AD17, A/P Effectivity: 737-ALL)

C. Consumable Materials

Reference	Description	Specification
B00083	Solvent - Aliphatic Naphtha (For Acrylic Plastics)	TT-N-95 Type II, ASTM D-3735 Type III
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	BMS15-5

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

EFFECTIVITY
HAP ALL; AIRPLANES WITH WINGLETS

33-43-10

Page 201
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

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

<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 33-43-10-960-001

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

- (a) Open the applicable access panel:

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

<u>Number</u>	<u>Name/Location</u>
521AAB	Lower Leading Edge Access Panel - Slat Station 508.31
621ZB	Lower Leading Edge Access Panel - Slat Station 508.31

SUBTASK 33-43-10-860-002

- (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.

EFFECTIVITY
HAP ALL; AIRPLANES WITH WINGLETS

D633A101-HAP

33-43-10

Page 202
Feb 10/2007



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (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
HAP ALL; AIRPLANES WITH WINGLETS

D633A101-HAP

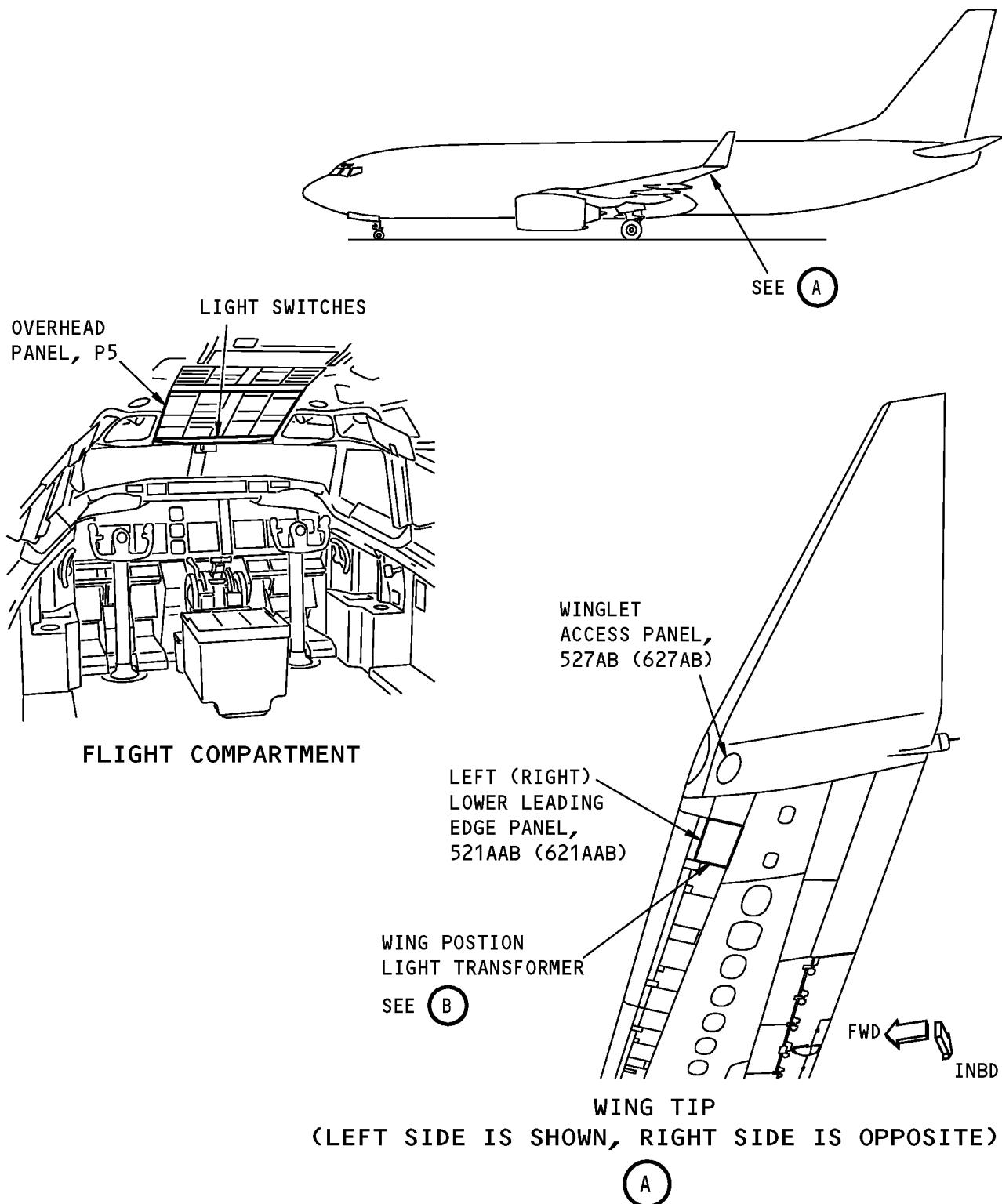
33-43-10

Page 203
Feb 10/2007



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL



Position Light - Transformer Replacement
Figure 201 (Sheet 1 of 2)/33-43-10-990-801

EFFECTIVITY
HAP ALL; AIRPLANES WITH WINGLETS

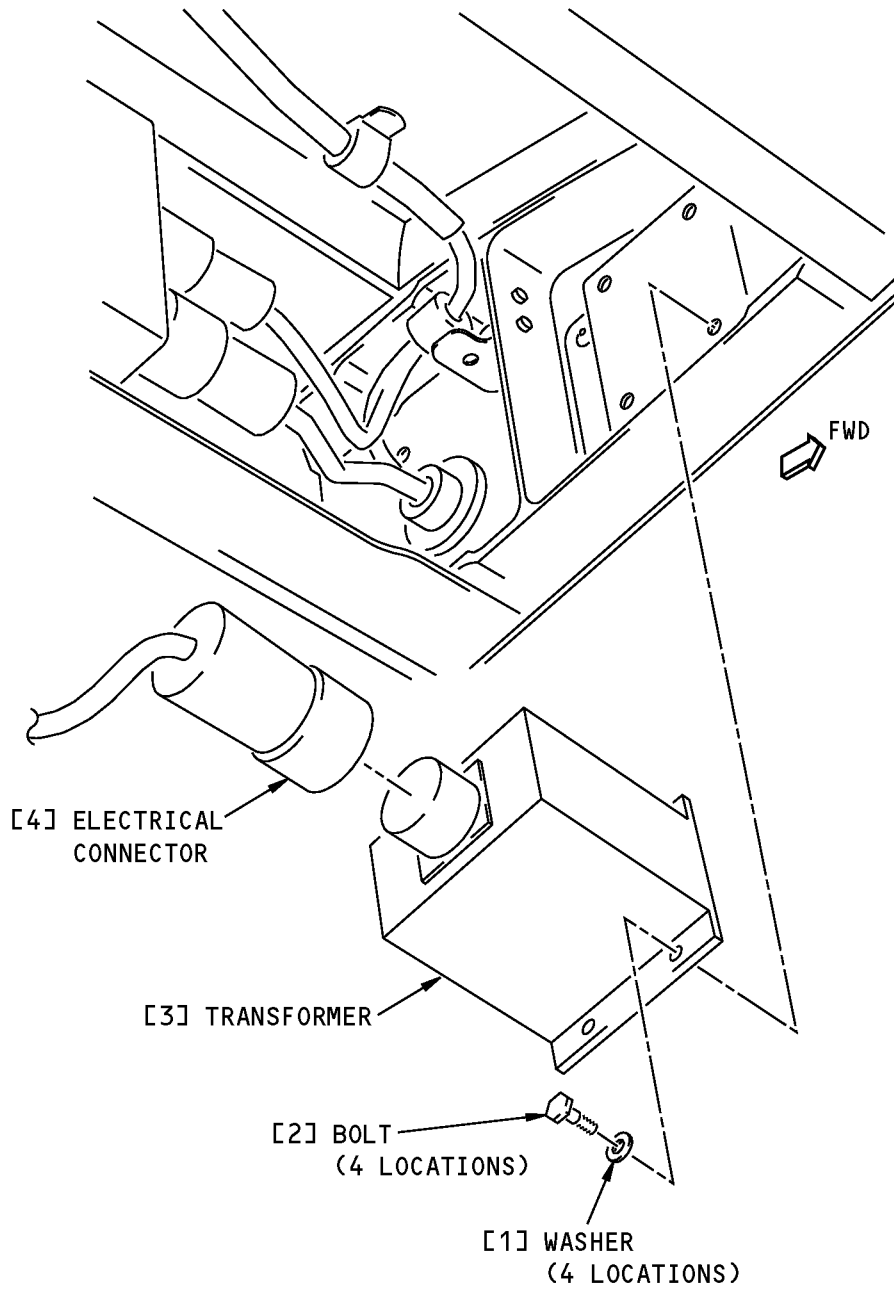
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33-43-10

Page 204
Oct 10/2004



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



POSITION LIGHT TRANSFORMER

B

Position Light - Transformer Replacement
Figure 201 (Sheet 2 of 2)/33-43-10-990-801

EFFECTIVITY
HAP ALL; AIRPLANES WITH WINGLETS

D633A101-HAP

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33-43-10

Page 205
Oct 10/2004



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-43-10-710-801

3. 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)
SSM 33-43-11	System Schematics 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.

SUBTASK 33-43-10-710-002

(2) Do a test of the position lights on the left wing (SSM 33-43-11):

- (a) At the overhead panel, P5, set the switch for the left position lights to the on mode.
 - 1) Make sure the forward and aft position lights on the left wing come on.
- (b) Set the switch to the off mode.
 - 1) Make sure the lights go off.

SUBTASK 33-43-10-710-003

(3) Do a test of the position lights on the right wing (SSM 33-43-11):

- (a) At the overhead panel, P5, set the switch for the right position lights to the on mode.
 - 1) Make sure the forward and aft position lights on the right wing come on.
- (b) Set the switch to the off mode.
 - 1) Make sure the lights go off.

SUBTASK 33-43-10-860-006

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

END OF TASK

HAP ALL; AIRPLANES WITH SINGLE FORWARD LENS CONFIGURATION

TASK 33-43-10-020-801

4. Position Lights - Disconnect the Electrical Connector

(Figure 202)

A. General

- (1) Use this procedure when it is necessary to remove the winglet.

B. References

Reference	Title
SSM 33-43-11	System Schematics Manual

EFFECTIVITY
HAP ALL; AIRPLANES WITH WINGLETS

33-43-10

Page 206
Oct 10/2004

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

HAP ALL; AIRPLANES WITH SINGLE FORWARD LENS CONFIGURATION (Continued)

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
HAP ALL; AIRPLANES WITH WINGLETS

D633A101-HAP

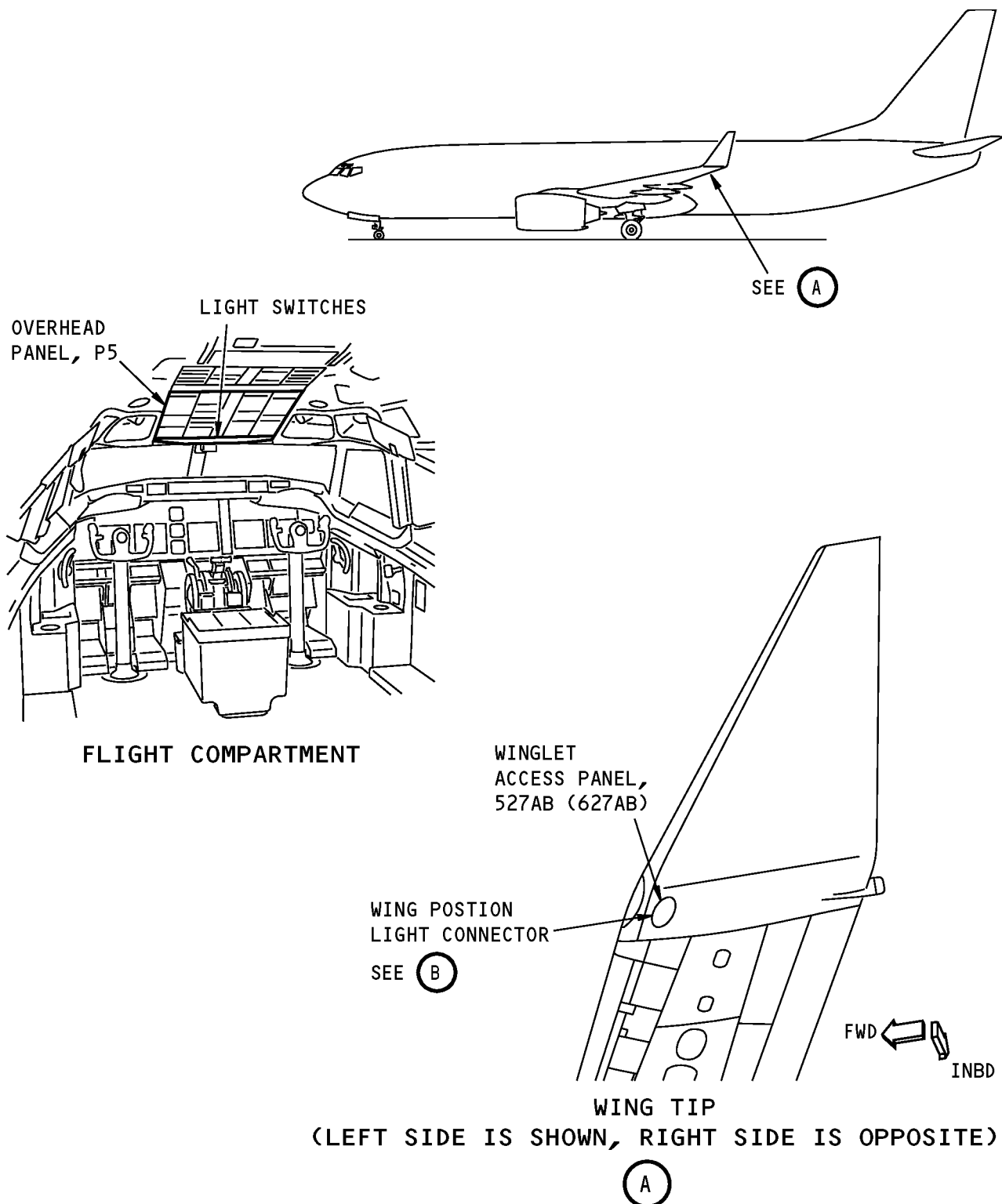
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33-43-10

Page 207
Feb 10/2007



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



Position Lights - Disconnect/Connect the Electrical Connector
Figure 202 (Sheet 1 of 2)/33-43-10-990-802

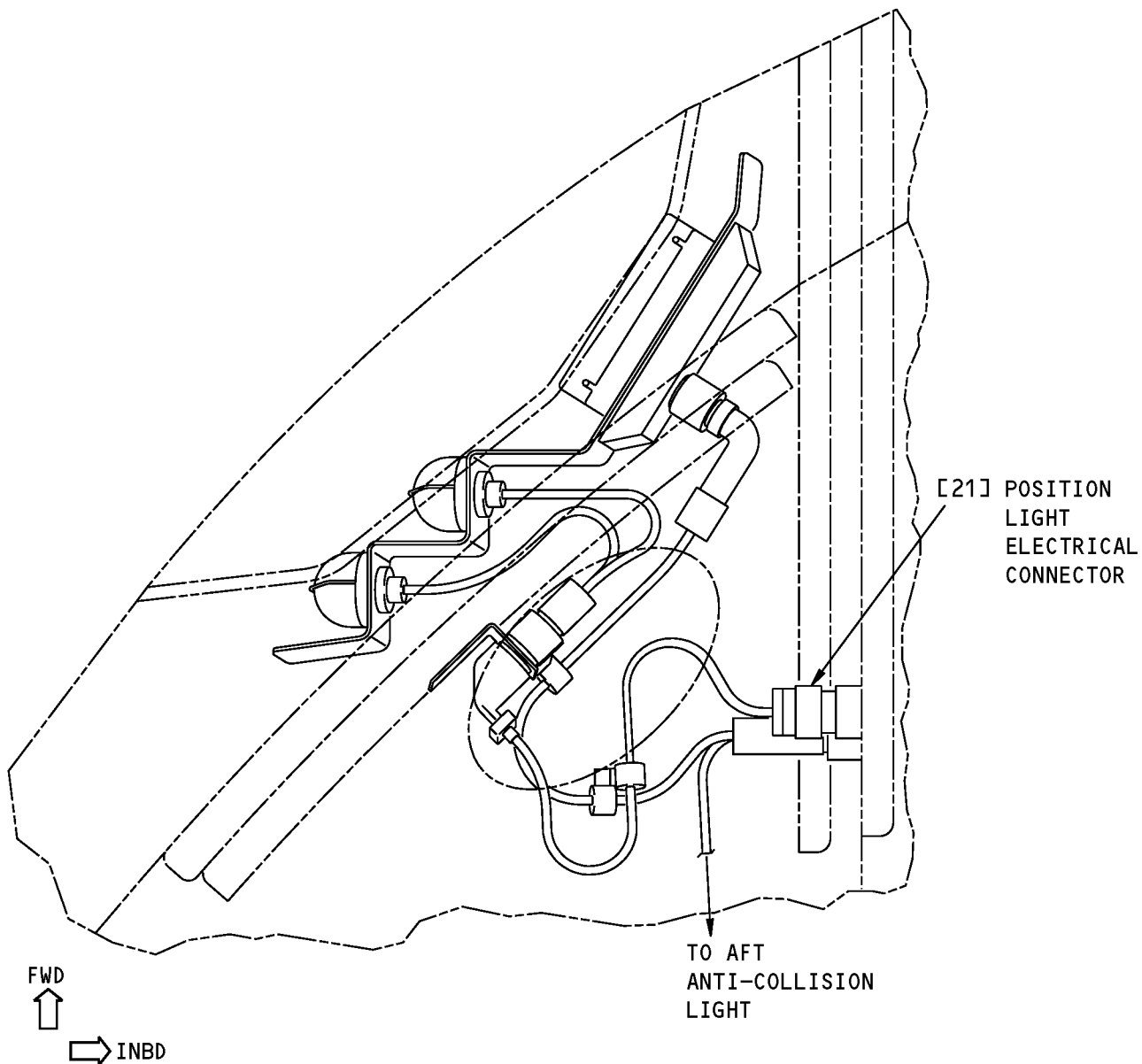
EFFECTIVITY
HAP ALL; AIRPLANES WITH SINGLE FORWARD LENS
CONFIGURATION

D633A101-HAP

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33-43-10

Page 208
Oct 10/2004



POSITION LIGHTS ELECTRICAL CONNECTOR

B

**Position Lights - Disconnect/Connect the Electrical Connector
Figure 202 (Sheet 2 of 2)/33-43-10-990-802**

**EFFECTIVITY
HAP ALL; AIRPLANES WITH SINGLE FORWARD LENS
CONFIGURATION**

D633A101-HAP

33-43-10

Page 209
Oct 10/2004



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

HAP ALL; AIRPLANES WITH SINGLE FORWARD LENS CONFIGURATION (Continued)

TASK 33-43-10-420-801

5. Position Lights - Connect the Electrical Connector

(Figure 202)

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.

EFFECTIVITY
HAP ALL; AIRPLANES WITH WINGLETS

33-43-10

Page 210
Oct 10/2004

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

HAP ALL; AIRPLANES WITH SINGLE FORWARD LENS CONFIGURATION (Continued)

- 1) Make sure the lights go off.

SUBTASK 33-43-10-860-010

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

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL; AIRPLANES WITH WINGLETS

D633A101-HAP

33-43-10

Page 211
Oct 10/2004



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

WINGLET FORWARD POSITION LIGHTS - MAINTENANCE PRACTICES

1. General

A. This procedure has one task:

- (1) Forward Position Light - Lamp Replacement

HAP ALL; AIRPLANES WITH SINGLE FORWARD LENS CONFIGURATION

TASK 33-43-11-960-801

2. Forward Position 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)
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)
SSM 33-43-11	System Schematics 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
HAP ALL; AIRPLANES WITH WINGLETS

33-43-11

Page 201
Feb 10/2007

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

HAP ALL; AIRPLANES WITH SINGLE FORWARD LENS CONFIGURATION (Continued)

SUBTASK 33-43-11-960-001

(3) Do these steps to replace the lamp:

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 retaining wire clip [7] up and off the glass 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 glass lens [3] and move the lens 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
HAP ALL; AIRPLANES WITH WINGLETS

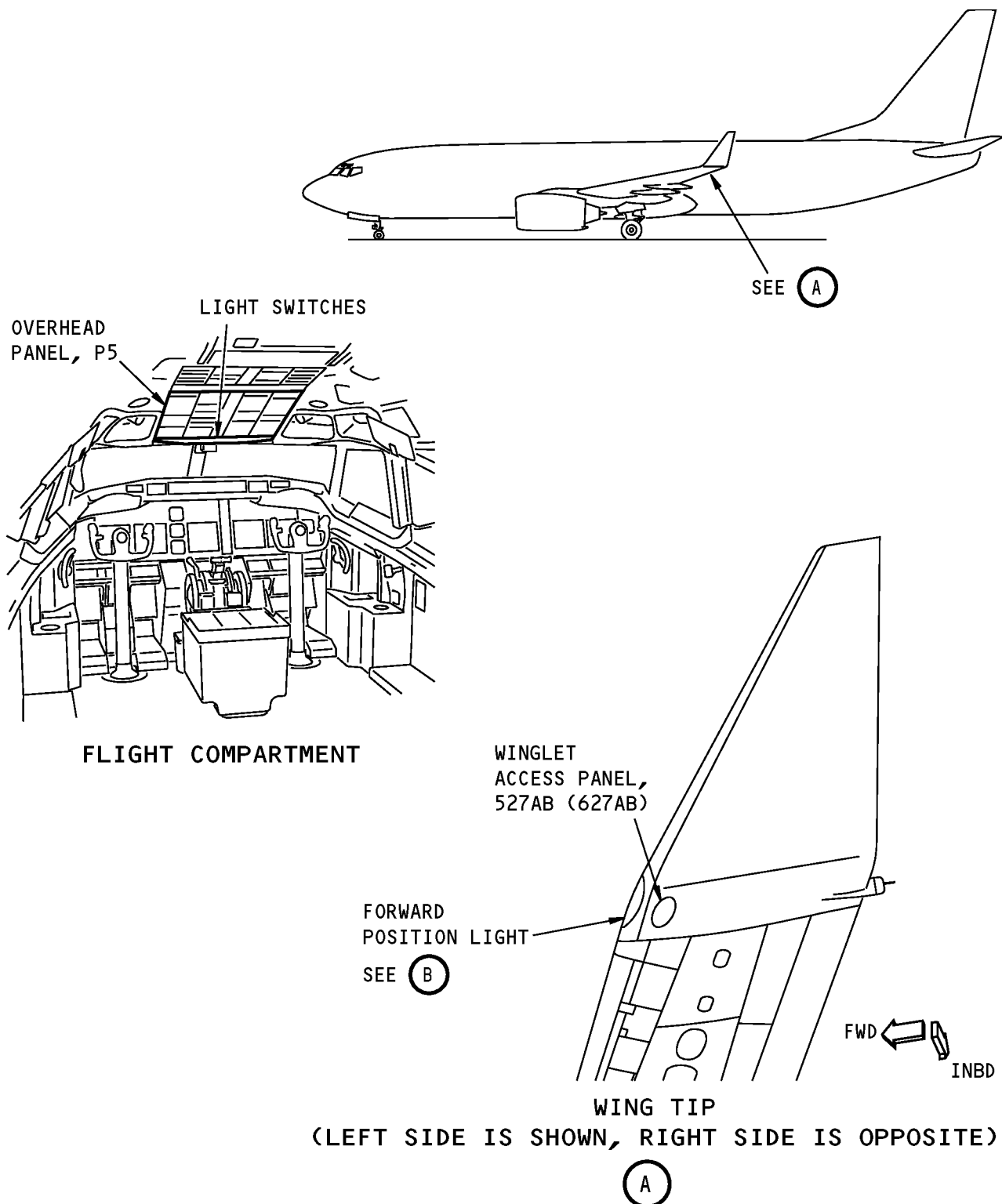
33-43-11

Page 202
Jun 10/2005

D633A101-HAP



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



Forward Position Light - Lamp Replacement
Figure 201 (Sheet 1 of 3)/33-43-11-990-801

EFFECTIVITY
HAP ALL; AIRPLANES WITH SINGLE FORWARD LENS
CONFIGURATION

33-43-11

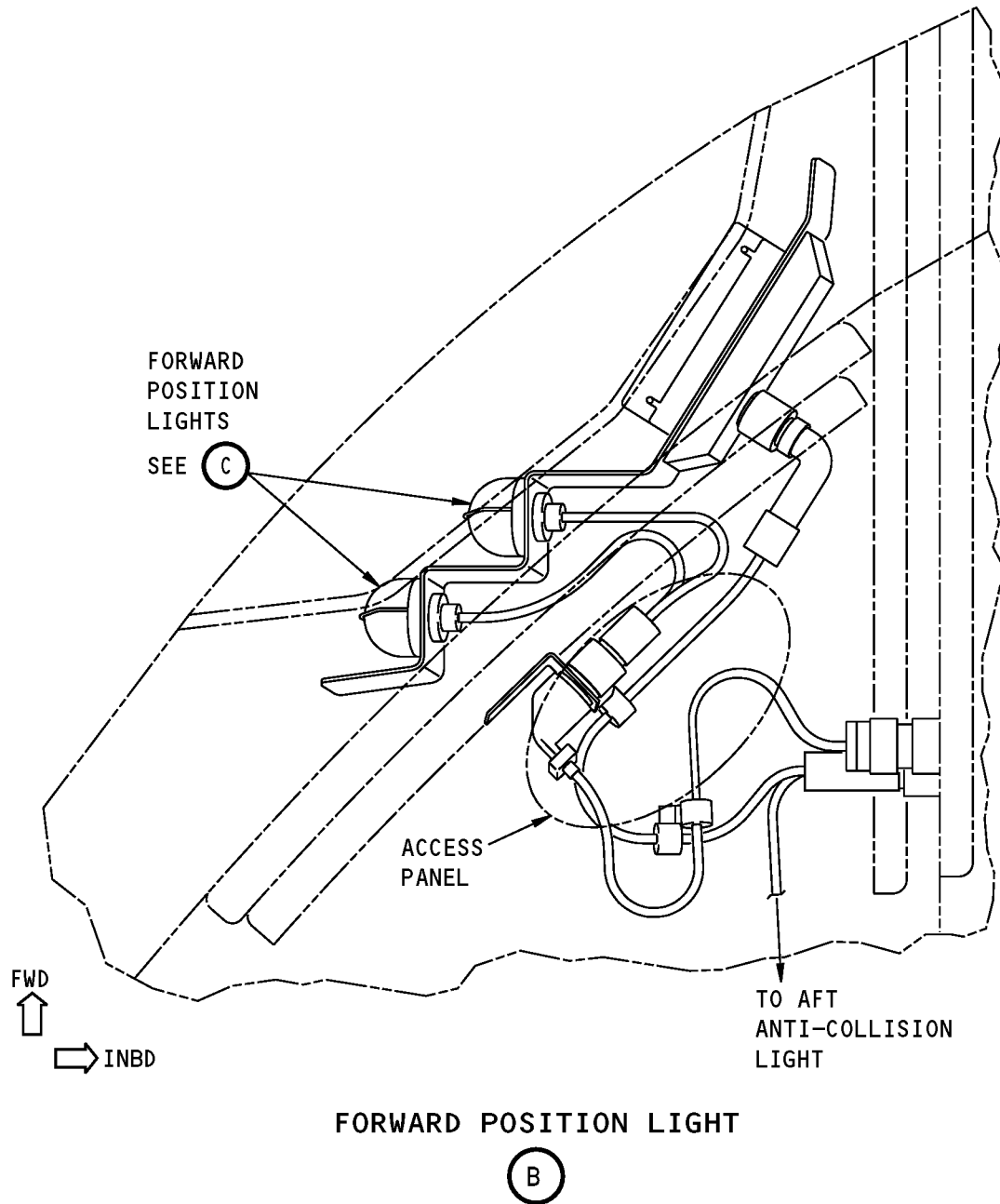
Page 203
Oct 10/2004

D633A101-HAP

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



Forward Position Light - Lamp Replacement
Figure 201 (Sheet 2 of 3)/33-43-11-990-801

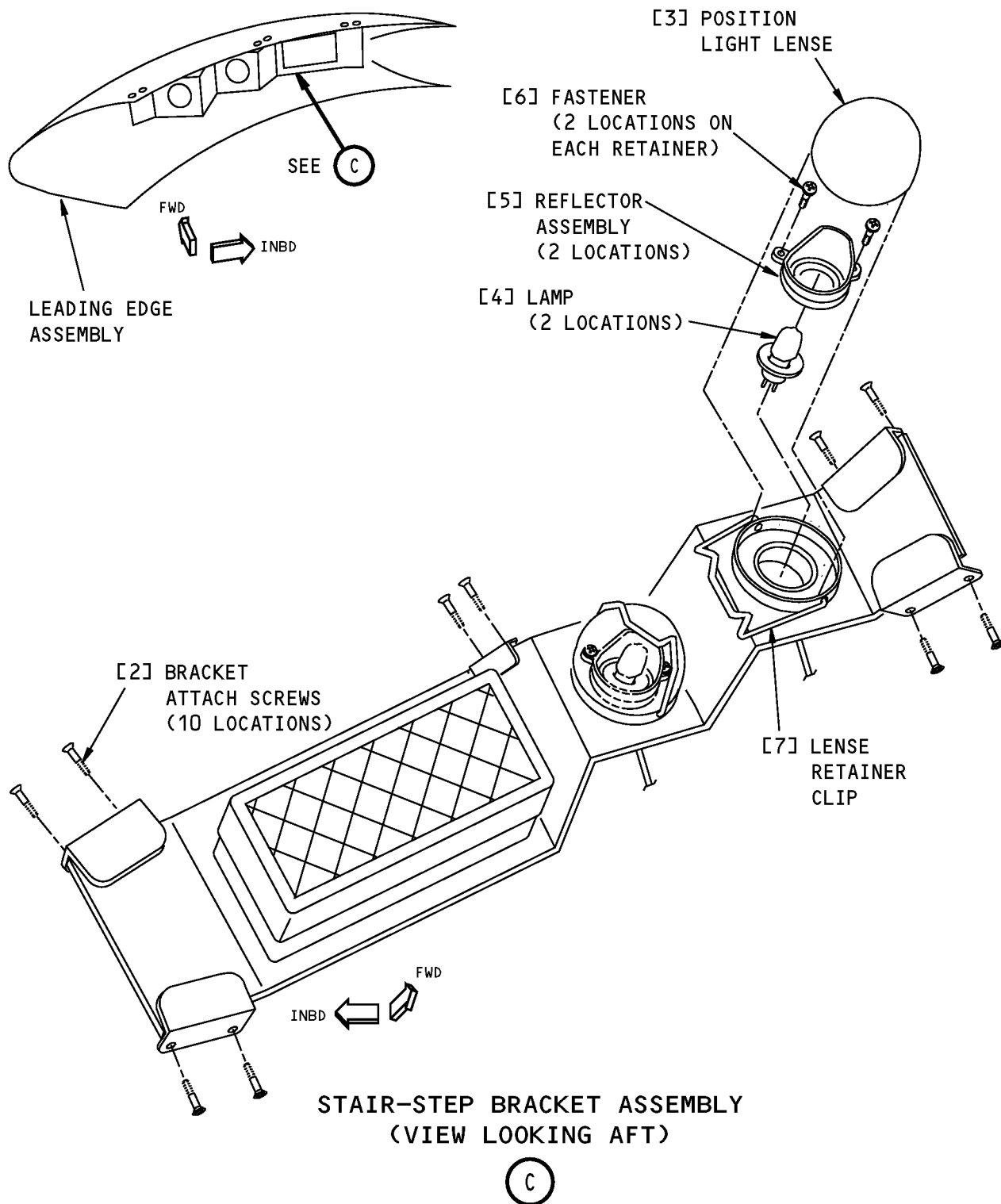
EFFECTIVITY
HAP ALL; AIRPLANES WITH SINGLE FORWARD LENS
CONFIGURATION

D633A101-HAP

33-43-11

Page 204
Oct 10/2004

AIRCRAFT MAINTENANCE MANUAL



Forward Position Light - Lamp Replacement
Figure 201 (Sheet 3 of 3)/33-43-11-990-801

EFFECTIVITY
HAP ALL; AIRPLANES WITH SINGLE FORWARD LENS
CONFIGURATION

33-43-11

Page 205
Oct 10/2004

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

HAP ALL; AIRPLANES WITH SINGLE FORWARD LENS CONFIGURATION (Continued)

HAP ALL; AIRPLANES WITH DUAL FORWARD LENS CONFIGURATION

TASK 33-43-11-960-802

3. Forward Position 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)
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 33-43-11	System Schematics 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	Meter - Bonding (Approved Explosion Proof & Intrinsically Safe) (Part #: C15292 (MODEL T477W), Supplier: 01014, A/P Effectivity: 737-ALL) (Part #: M1, Supplier: 3AD17, A/P Effectivity: 737-ALL) (Part #: M1B, Supplier: 3AD17, A/P Effectivity: 737-ALL)

C. Consumable Materials

Reference	Description	Specification
G01043	Cloth - Lint-free	
G01306	Gloves - Lint-free	

D. Location Zones

Zone	Area
527	Left Winglet
627	Right Winglet

E. 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 33-43-11-860-010

(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

EFFECTIVITY
HAP ALL; AIRPLANES WITH WINGLETS

33-43-11

Page 206
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

HAP ALL; AIRPLANES WITH DUAL FORWARD LENS CONFIGURATION (Continued)

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

SUBTASK 33-43-11-960-003

- (3) Do these steps to replace the lamp [1]:

NOTE: Do not touch the new lamp with your hands. Use lint-free gloves, G01306 or lint-free cloth, G01043.

- (a) Remove the two 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 meter, COM-1550, make sure that the resistance between the reflector assembly and light support measures no more than 0.0025 ohms.

SUBTASK 33-43-11-420-001

- (4) 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

- (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 33-43-11-860-008

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

SUBTASK 33-43-11-710-002

- (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 33-43-11-860-011

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

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL; AIRPLANES WITH WINGLETS

33-43-11

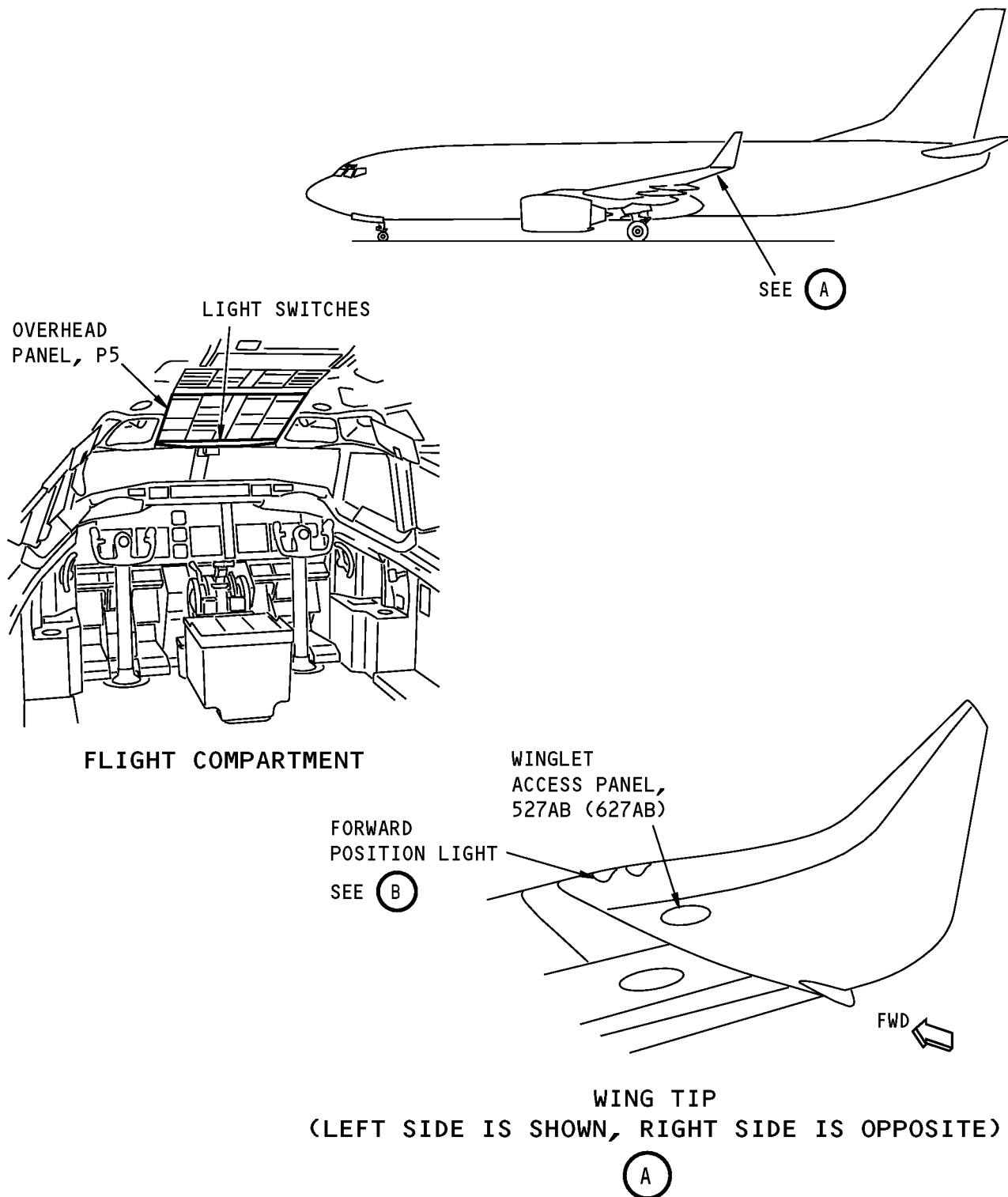
Page 207
Feb 10/2007

D633A101-HAP

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



Forward Position Light - Lamp Replacement
Figure 202 (Sheet 1 of 2)/33-43-11-990-802

EFFECTIVITY
HAP ALL; AIRPLANES WITH DUAL FORWARD LENS
CONFIGURATION

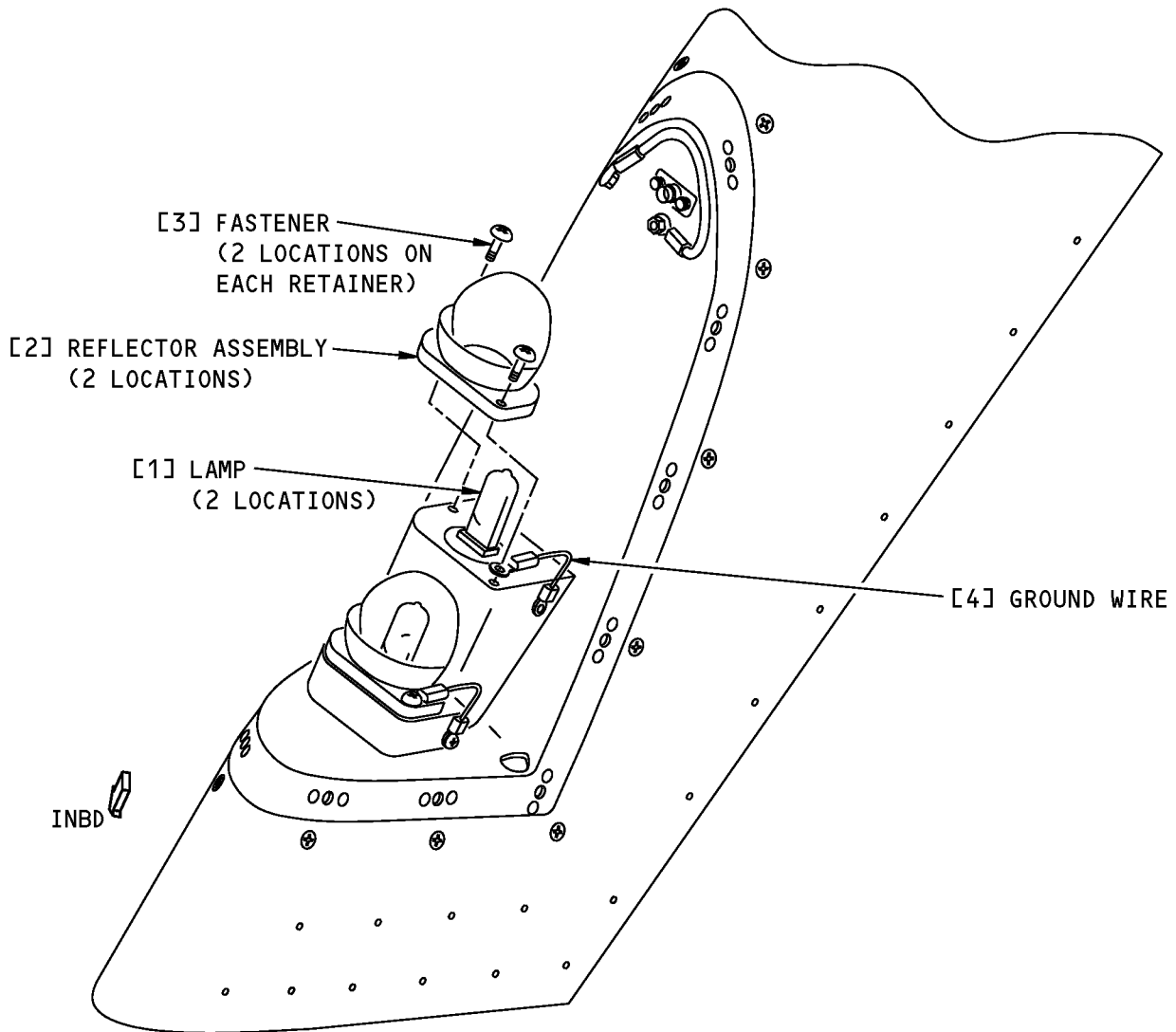
33-43-11

Page 208
Oct 10/2004

D633A101-HAP



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



FORWARD POSITION LIGHT
(POSITION LIGHT LENS ASSEMBLY REMOVED)

B

Forward Position Light - Lamp Replacement
Figure 202 (Sheet 2 of 2)/33-43-11-990-802

EFFECTIVITY
HAP ALL; AIRPLANES WITH DUAL FORWARD LENS
CONFIGURATION

33-43-11

Page 209
Oct 10/2004

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

WINGLET AFT POSITION LIGHTS - MAINTENANCE PRACTICES

1. General

A. This procedure has these tasks:

- (1) Aft Position Light - Lamp Replacement
- (2) Aft Position Light - Light Assembly Replacement

TASK 33-43-12-960-801

2. Aft Position Light - Lamp Replacement

(Figure 201)

A. General

- (1) This procedure gives the task to replace the lamps for the aft position light.
- (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.

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)
SSM 33-43-11	System Schematics Manual

C. Consumable Materials

Reference	Description	Specification
G01306	Gloves - Lint-free	

D. Location Zones

Zone	Area
527	Left Winglet
627	Right Winglet

E. Procedure

SUBTASK 33-43-12-860-001

- (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

SUBTASK 33-43-12-960-001

- (2) Replace the lamp [1]:

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.

EFFECTIVITY
HAP ALL; AIRPLANES WITH WINGLETS

D633A101-HAP

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33-43-12

Page 201
Feb 10/2007



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (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].

SUBTASK 33-43-12-860-002

- (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 33-43-12-860-003

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

SUBTASK 33-43-12-710-001

- (5) 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

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

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL; AIRPLANES WITH WINGLETS

D633A101-HAP

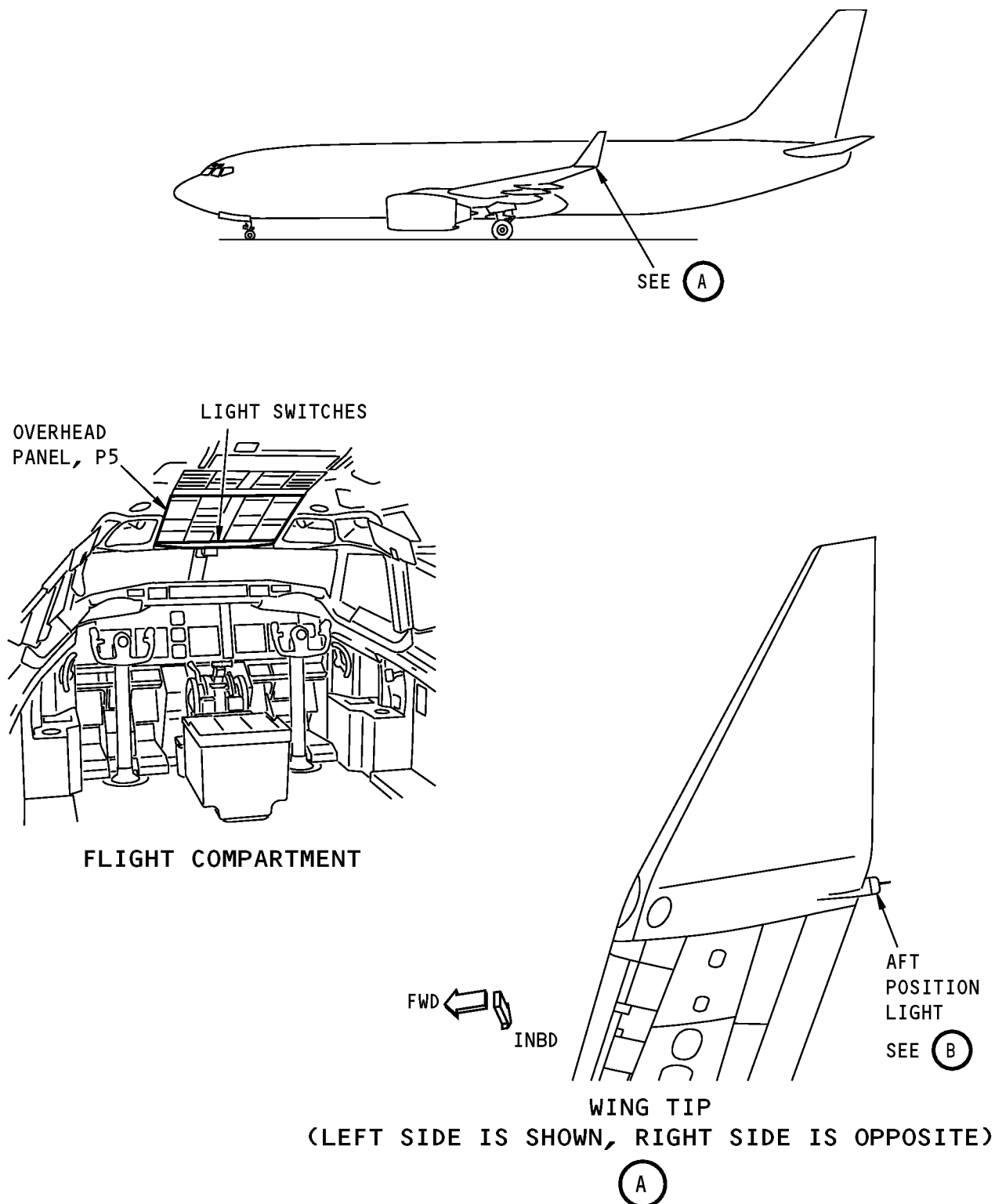
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33-43-12

Page 202
Oct 10/2004



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



Aft Position Light - Lamp Replacement
Figure 201 (Sheet 1 of 2)/33-43-12-990-801

EFFECTIVITY
HAP ALL; AIRPLANES WITH WINGLETS

D633A101-HAP

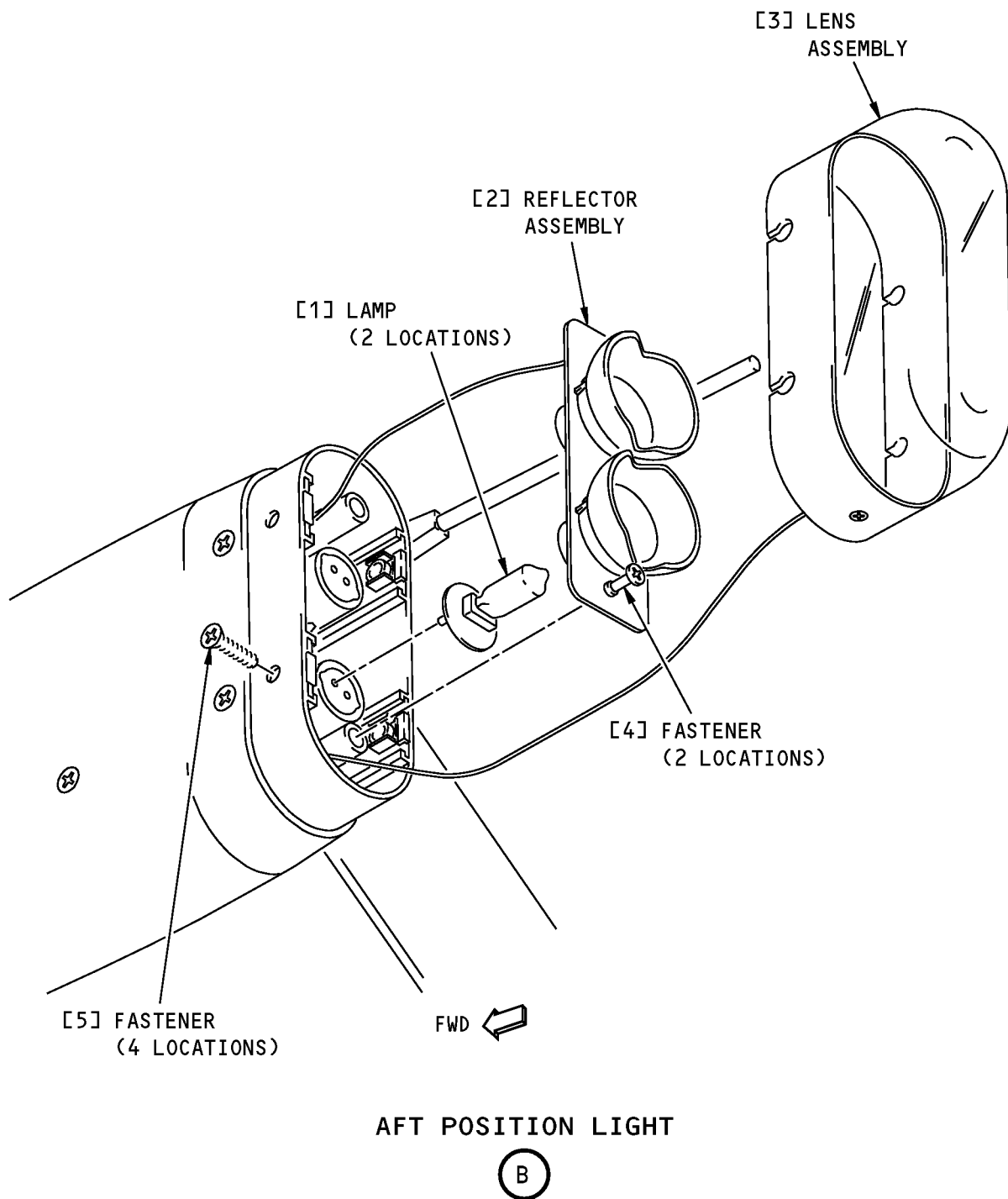
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33-43-12

Page 203
Oct 10/2004



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



Aft Position Light - Lamp Replacement
Figure 201 (Sheet 2 of 2)/33-43-12-990-801

EFFECTIVITY
HAP ALL; AIRPLANES WITH WINGLETS

D633A101-HAP

BOEING PROPRIETARY - Copyright © Unpublished Work - See title page for details

33-43-12

Page 204
Oct 10/2004



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-43-12-960-802

3. Aft Position Light - Light Assembly Replacement

(Figure 202)

A. General

- (1) This procedure gives the task to replace the light assembly for the aft position light.
- (2) There are two lamps 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)
SSM 33-43-11	System Schematics 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	Meter - Bonding (Approved Explosion Proof & Intrinsically Safe) (Part #: C15292 (MODEL T477W), Supplier: 01014, A/P Effectivity: 737-ALL) (Part #: M1, Supplier: 3AD17, A/P Effectivity: 737-ALL) (Part #: M1B, Supplier: 3AD17, A/P Effectivity: 737-ALL)

D. Consumable Materials

Reference	Description	Specification
A02315	Sealant - Low Density, Synthetic Rubber. 2 Part	BMS5-142
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

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.

EFFECTIVITY
HAP ALL; AIRPLANES WITH WINGLETS

33-43-12

Page 205
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 33-43-12-960-002

(3) Replace the light assembly:

- (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].

- (i) Put the light assembly [22] in the fairing.

- (j) With the electrical bonding meter, COM-1550, make sure the resistance between the new assembly and the airplane structure measures no more than 0.0025 ohms.

- (k) Install the bolts [26] with the corrosion-preventative compound, C00528.

- (l) Apply the sealant, A02315 at the seam between the light assembly [22].

NOTE: Keep the sealant away from the lens assembly. Removal of the lens assembly is permitted.

- (m) If the lens assembly was removed, install it.

- (n) Make sure that the electrical connections and lamp terminals are clean for good electrical contact.

- (o) Connect the electrical connector [21].

SUBTASK 33-43-12-410-001

(4) Install the lower canoe fairing for the aft position light.

- (a) Do this task: Aft Position Light Fairing Installation, TASK 57-21-22-400-801.

SUBTASK 33-43-12-860-006

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

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	12	C00113	EXTERIOR LIGHTING POSITION RIGHT
A	13	C00114	EXTERIOR LIGHTING POSITION LEFT

SUBTASK 33-43-12-860-007

(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.

EFFECTIVITY
HAP ALL; AIRPLANES WITH WINGLETS

33-43-12

Page 206
Feb 10/2007

D633A101-HAP

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737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

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.

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL; AIRPLANES WITH WINGLETS

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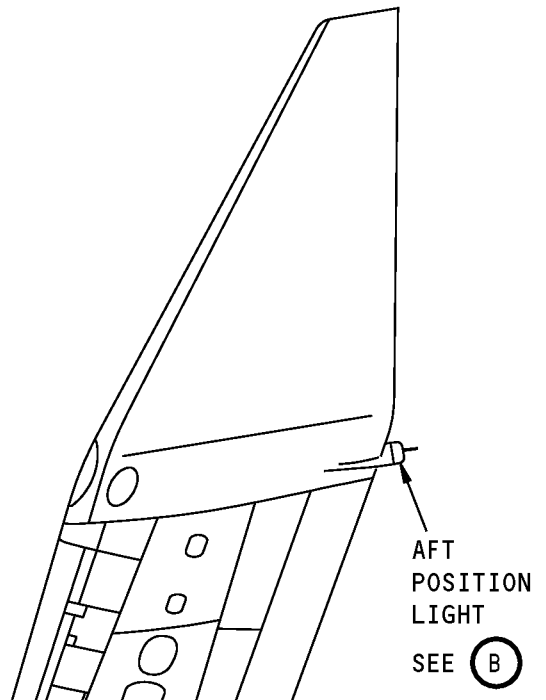
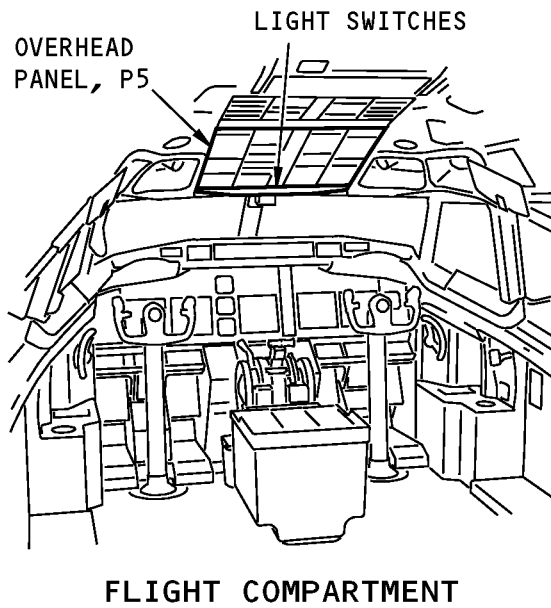
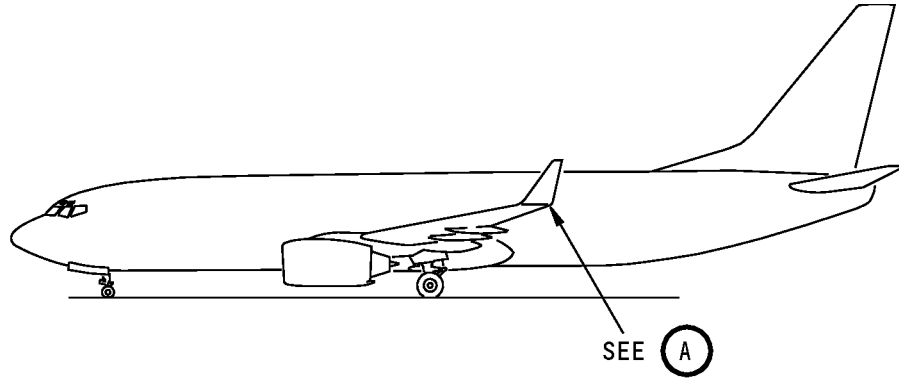
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33-43-12

Page 207
Oct 10/2006



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



WING TIP
(LEFT SIDE IS SHOWN, RIGHT SIDE IS OPPOSITE)

(A)

Aft Position Light - Light Assembly Replacement
Figure 202 (Sheet 1 of 2)/33-43-12-990-802

EFFECTIVITY
HAP ALL; AIRPLANES WITH WINGLETS

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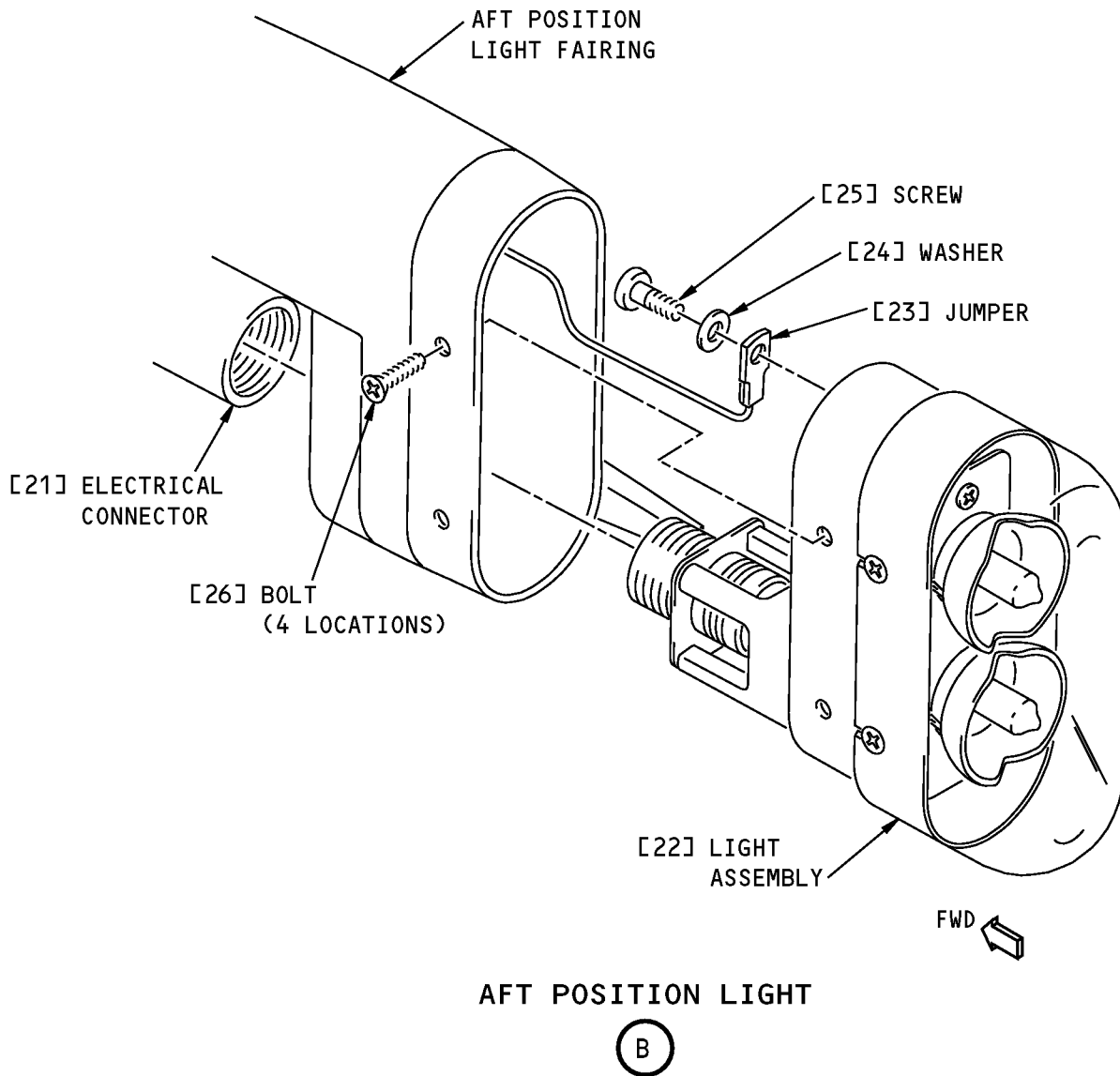
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33-43-12

Page 208
Oct 10/2004



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



Aft Position Light - Light Assembly Replacement
Figure 202 (Sheet 2 of 2)/33-43-12-990-802

EFFECTIVITY
HAP ALL; AIRPLANES WITH WINGLETS

D633A101-HAP

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33-43-12

Page 209
Oct 10/2004



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

ANTI-COLLISION LIGHTS - ADJUSTMENT/TEST

1. General

- A. This procedure contains scheduled maintenance task data.
- B. This procedure has one task:
 - (1) Anti-Collision Lights - Operational Test

TASK 33-44-00-710-801

2. Anti-Collision Lights - Operational Test

(Figure 501)

- A. General
 - (1) This test makes sure the anti-collision lights operate.
- B. References

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
SSM 33-44-11	System Schematics Manual
SSM 33-44-12	System Schematics 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 (SSM 33-44-11):
 - (a) At the overhead panel, P5, set the switch for the upper and lower anti-collision lights to the on mode.
 - 1) Make sure the red anti-collision lights on the top and bottom of the fuselage flash 40 to 45 times a minute.

NOTE: Let each light flash for 20 seconds to stabilize the system. If no misfire occurs, and the light flashes 40 to 45 times a minute, the system operates correctly. If a misfire occurs before a system becomes stable, let the light flash for 60 more seconds. There must be no other misfires after the system becomes stable.
 - (b) Set the switch to the off mode.
 - 1) Make sure lights go off.

EFFECTIVITY
HAP ALL

33-44-00

Page 501
Feb 15/2009

D633A101-HAP



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

SUBTASK 33-44-00-710-002

WARNING: DO NOT LET THE LIGHTS FLASH DIRECTLY IN YOUR EYES. THE INTENSITY OF THE LIGHT CAN TEMPORARILY CAUSE INJURY TO YOUR EYES.

(3) Do a test of the wing and tail anti-collision lights (SSM 33-44-12):

(a) At the overhead panel, P5, set the switch for wing and tail anti-collision lights to the on mode.

1) Make sure the white anti-collision lights on each wing flash 40 to 45 times a minute.

NOTE: Let each light flash for 20 seconds to stabilize the system. If no misfire occurs, and the light flashes 40 to 45 times a minute, the system operates correctly.

If a misfire occurs before a system becomes stable, let the light flash for 60 more seconds. There must be no other misfires after the system becomes stable.

2) 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
HAP ALL

D633A101-HAP

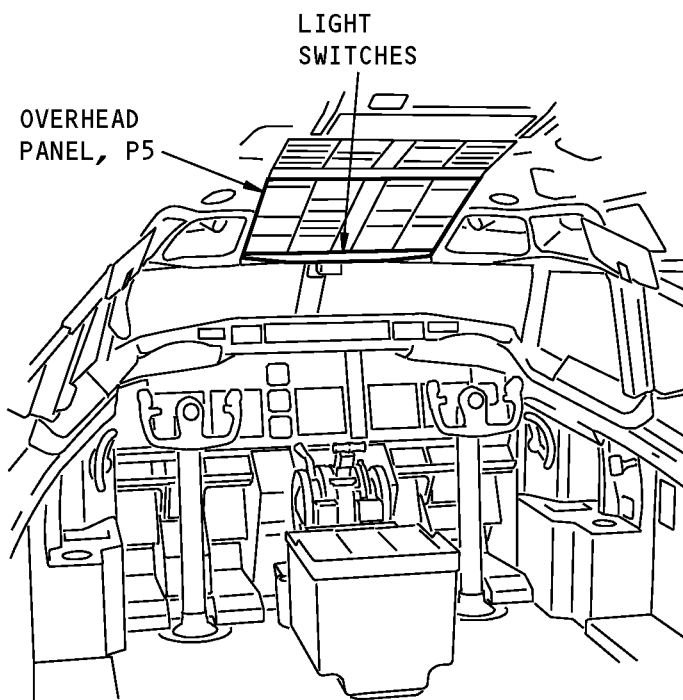
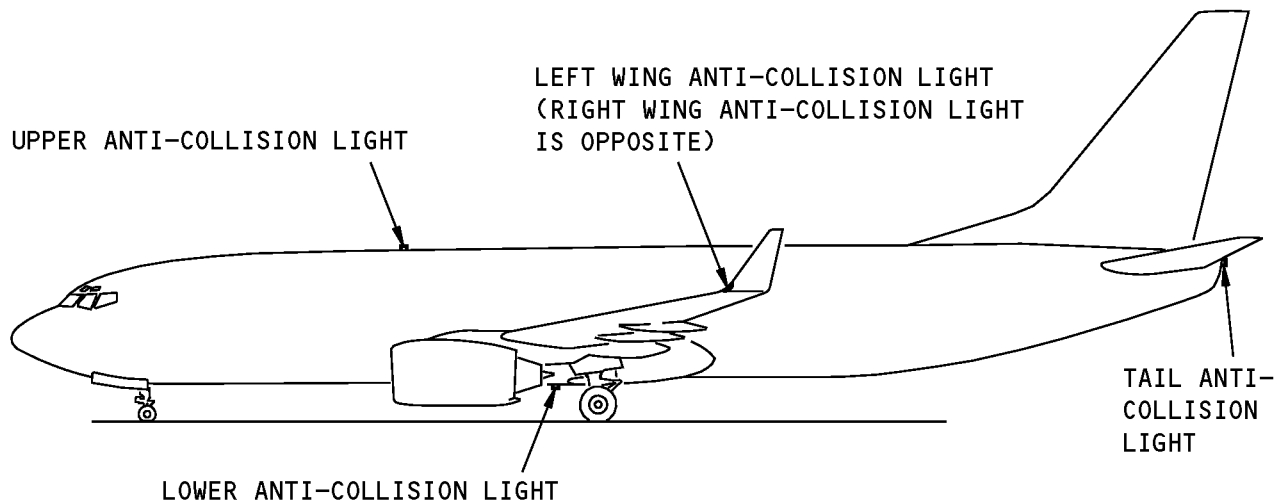
33-44-00

Page 502
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL



FLIGHT COMPARTMENT

Anti-Collision Lights - Test
Figure 501/33-44-00-990-801

EFFECTIVITY
HAP ALL

33-44-00

Page 503
Oct 10/2004

D633A101-HAP

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737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

UPPER ANTI-COLLISION LIGHT - MAINTENANCE PRACTICES

1. General

A. This procedure has these tasks:

- (1) Upper Anti-Collision Light - Lamp Assembly Replacement
- (2) Upper Anti-Collision Light - Light Assembly Replacement
- (3) Upper Anti-Collision Light - Lens Replacement
- (4) Upper Anti-Collision Light - Power Supply Replacement

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)
25-21-45-000-801	Sculptured Ceiling Panel Removal (P/B 401)
25-21-45-400-801	Sculptured Ceiling Panel Installation (P/B 401)
33-44-00-710-801	Anti-Collision Lights - Operational Test (P/B 501)
SSM 33-44-11	System Schematics Manual

C. Consumable Materials

Reference	Description	Specification
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	BMS15-5

D. Location Zones

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

E. 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 from inside the airplane do the following steps:

EFFECTIVITY
HAP ALL

33-44-01

Page 201
Oct 10/2004

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (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: Sculptured Ceiling Panel Removal, TASK 25-21-45-000-801.
- 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 (SSM 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.
- 2) Turn the light assembly [5] clockwise and pull it down from the housing [1].
- 3) Loosen the fastener [2] on top of the lamp assembly.
- 4) Examine the gasket [4].
 - a) If the gasket is worn, replace it.
- 5) Replace the lamp assembly [3].
- 6) Tighten the fastener [2].
- 7) If the lens is dirty, clean it with a clean, soft, dry cotton wiper, G00034.
- 8) Put the light assembly [5] in the housing [1] and turn it counterclockwise.
- 9) Install the bolts [6].

- (c) Install the items that were removed for access to the light:

- 1) If the ceiling panel only was removed, do this task: Sculptured Ceiling Panel Installation, TASK 25-21-45-400-801.
- 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 from outside the airplane do the following steps:

- (a) For access to the lens, go out of the airplane, on top of the fuselage.
- (b) Do these steps to remove the lens:

- 1) Loosen the screws [42] and lift off the lens [41].

- (c) Do these steps to replace the lamp assembly (SSM 33-44-11):

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

- 1) Loosen the fastener [2] on top of the lamp assembly.
- 2) Replace the lamp assembly [3].
- 3) Tighten the fastener [2].
- 4) If the lens is dirty, clean it with a clean, soft, dry cotton wiper, G00034.
- 5) Put on the lens [41] and tighten the screws [42].

EFFECTIVITY
HAP ALL

33-44-01

Page 202
Oct 10/2004

D633A101-HAP



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

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.
- (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 33-44-01-860-004

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

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

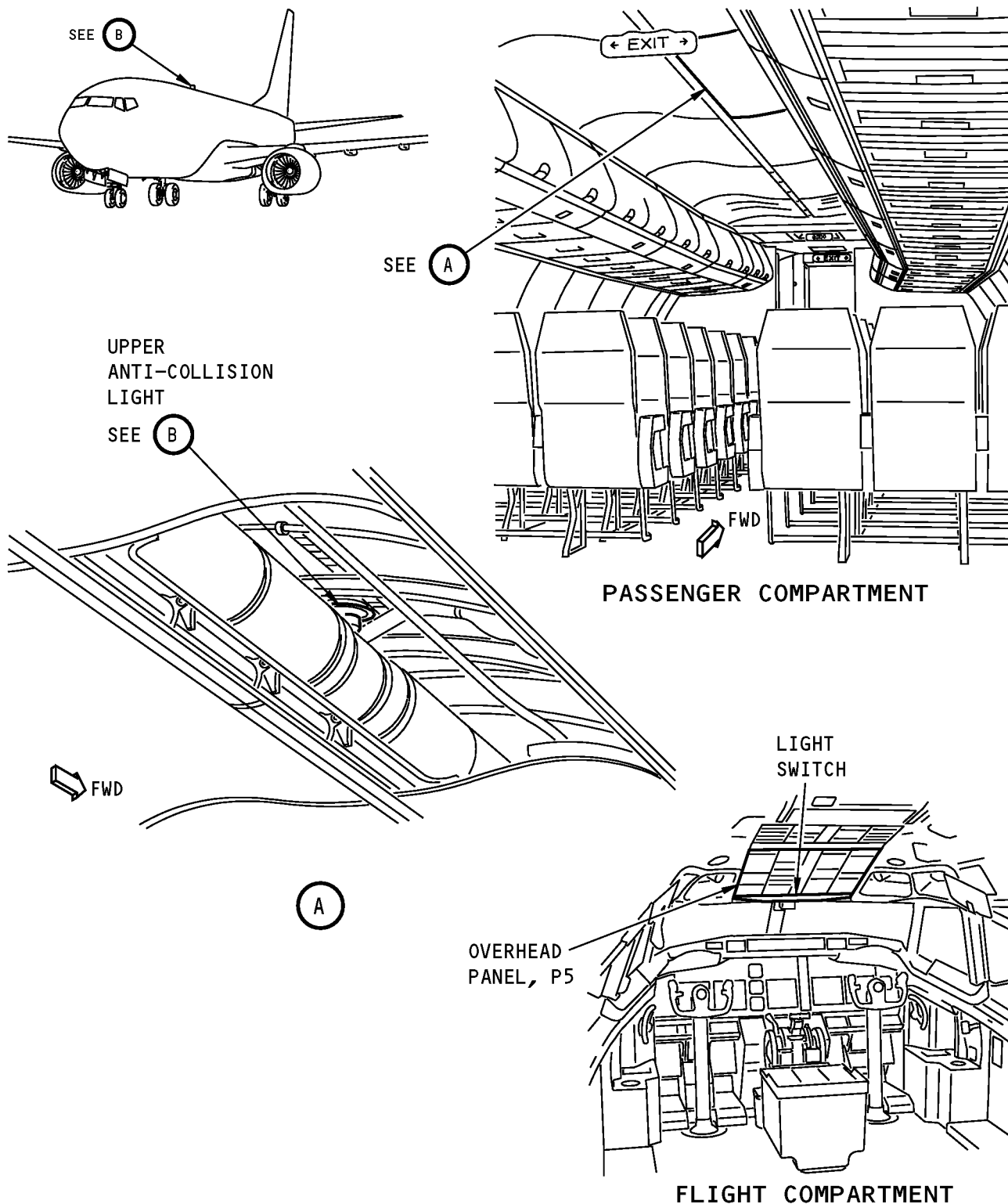
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33-44-01

Page 203
Oct 10/2004

AIRCRAFT MAINTENANCE MANUAL



Upper Anti-Collision Light - Lamp Assembly Replacement
Figure 201 (Sheet 1 of 2)/33-44-01-990-801

EFFECTIVITY
HAP ALL

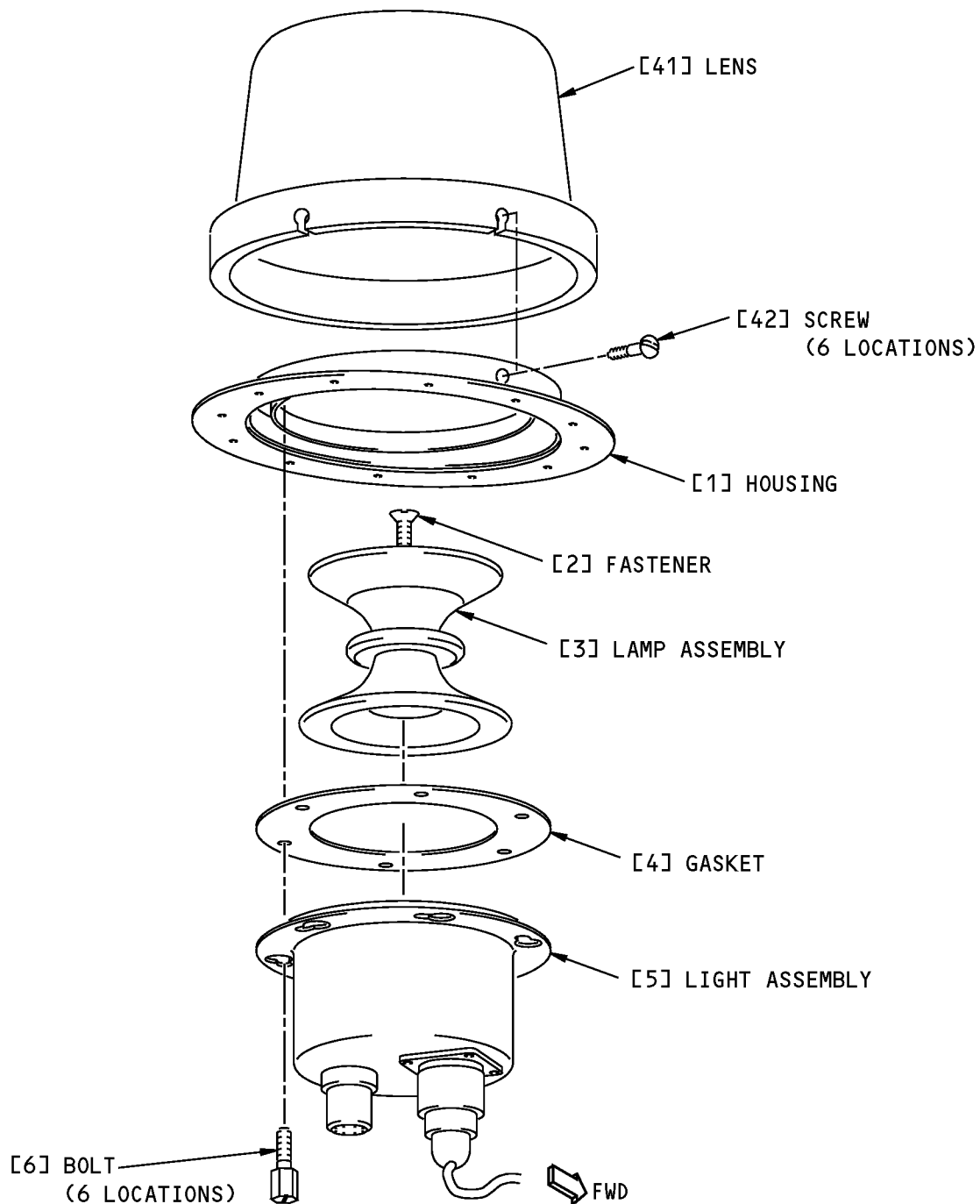
33-44-01

Page 204
Oct 10/2004

D633A101-HAP



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



UPPER ANTI-COLLISION LIGHT

B

Upper Anti-Collision Light - Lamp Assembly Replacement
Figure 201 (Sheet 2 of 2)/33-44-01-990-801

EFFECTIVITY
HAP ALL

33-44-01

Page 205
Oct 10/2004

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

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)
25-21-45-000-801	Sculptured Ceiling Panel Removal (P/B 401)
25-21-45-400-801	Sculptured Ceiling Panel Installation (P/B 401)
33-44-00-710-801	Anti-Collision Lights - Operational Test (P/B 501)
SSM 33-44-11	System Schematics Manual

B. Consumable Materials

Reference	Description	Specification
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	BMS15-5

C. Location Zones

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

D. 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: Sculptured Ceiling Panel Removal, TASK 25-21-45-000-801.
- (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 (SSM 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.
- (c) Turn the light assembly [5] clockwise and pull it down from the housing [1].

EFFECTIVITY
HAP ALL

33-44-01

Page 206
Oct 10/2004

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (d) Replace the light assembly [5].
- (e) If the lens is dirty, clean it with a clean, soft, dry cotton wiper, G00034.
- (f) Put the light assembly [5] in the housing [1] and turn it counterclockwise.
- (g) Install the bolts [6].
- (h) Connect the electrical connector [21].

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: Sculptured Ceiling Panel Installation, TASK 25-21-45-400-801.
 - (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:
 - (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** —————

EFFECTIVITY
HAP ALL

D633A101-HAP

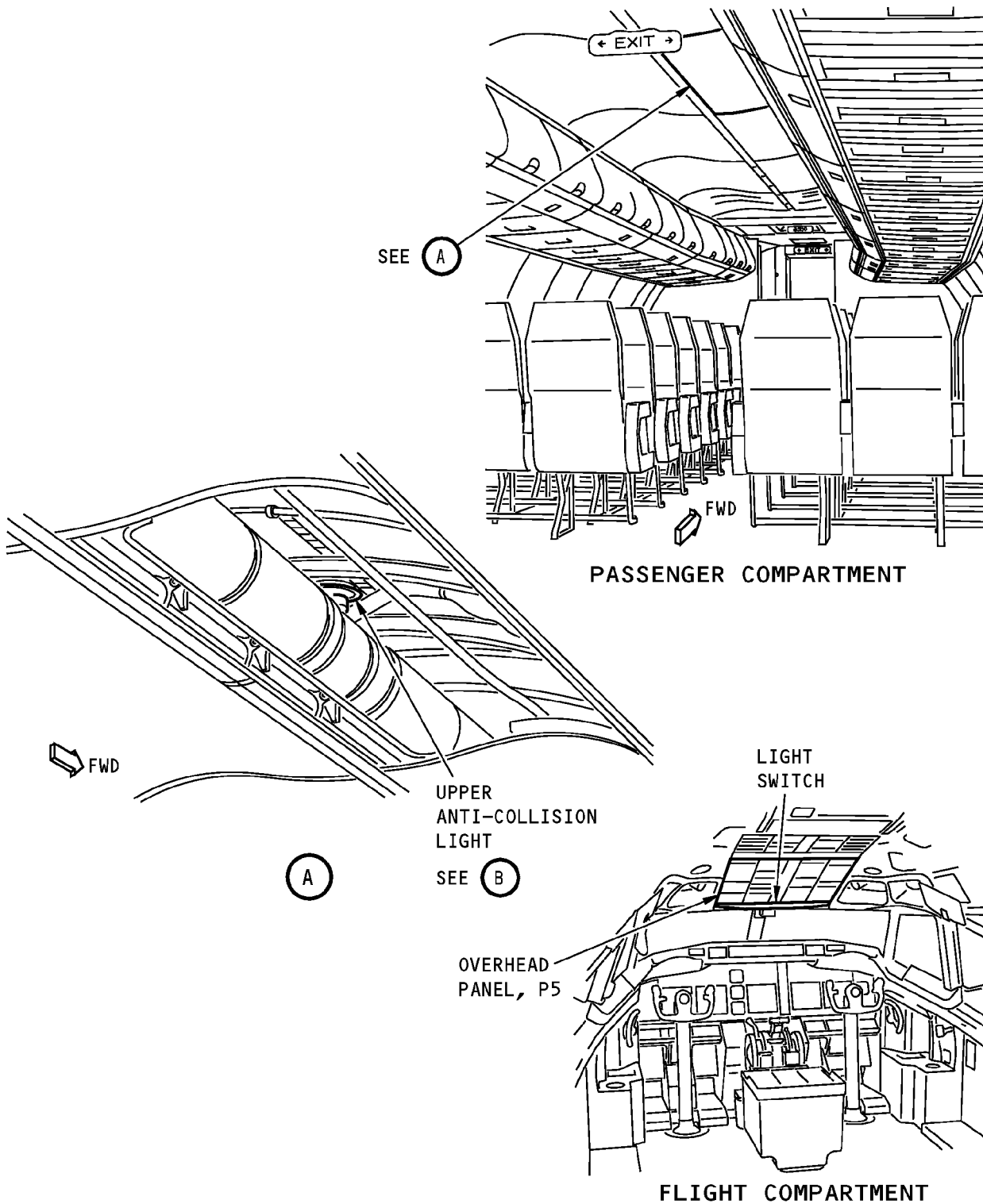
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33-44-01

Page 207
Oct 10/2004



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



Upper Anti-Collision Light - Light Assembly Replacement
Figure 202 (Sheet 1 of 2)/33-44-01-990-802

EFFECTIVITY
HAP ALL

33-44-01

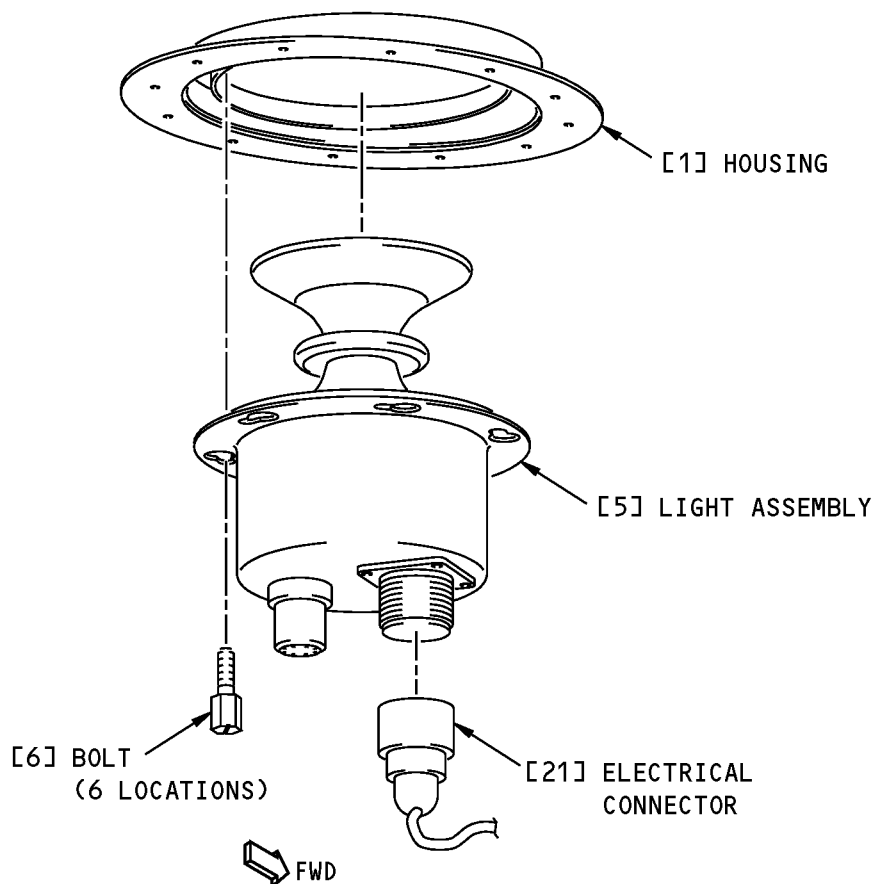
Page 208
Oct 10/2004

D633A101-HAP

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



UPPER ANTI-COLLISION LIGHT

(B)

Upper Anti-Collision Light - Light Assembly Replacement
Figure 202 (Sheet 2 of 2)/33-44-01-990-802

EFFECTIVITY
HAP ALL

D633A101-HAP

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33-44-01

Page 209
Oct 10/2004



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-44-01-960-803

4. Upper Anti-Collision Light - Lens Replacement

(Figure 203)

A. Consumable Materials

Reference	Description	Specification
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	BMS15-5

B. Location Zones

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

C. Procedure

SUBTASK 33-44-01-010-004

(1) For access to the lens, go out of the airplane, on top of the fuselage.

SUBTASK 33-44-01-960-003

(2) Do these steps to replace the lens:

- Loosen the screws [42] and lift off the lens [41].
- If the new lens [41] is dirty, clean it with a clean, soft, dry cotton wiper, G00034.
- Put on the new lens [41] and tighten the screws [42].

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

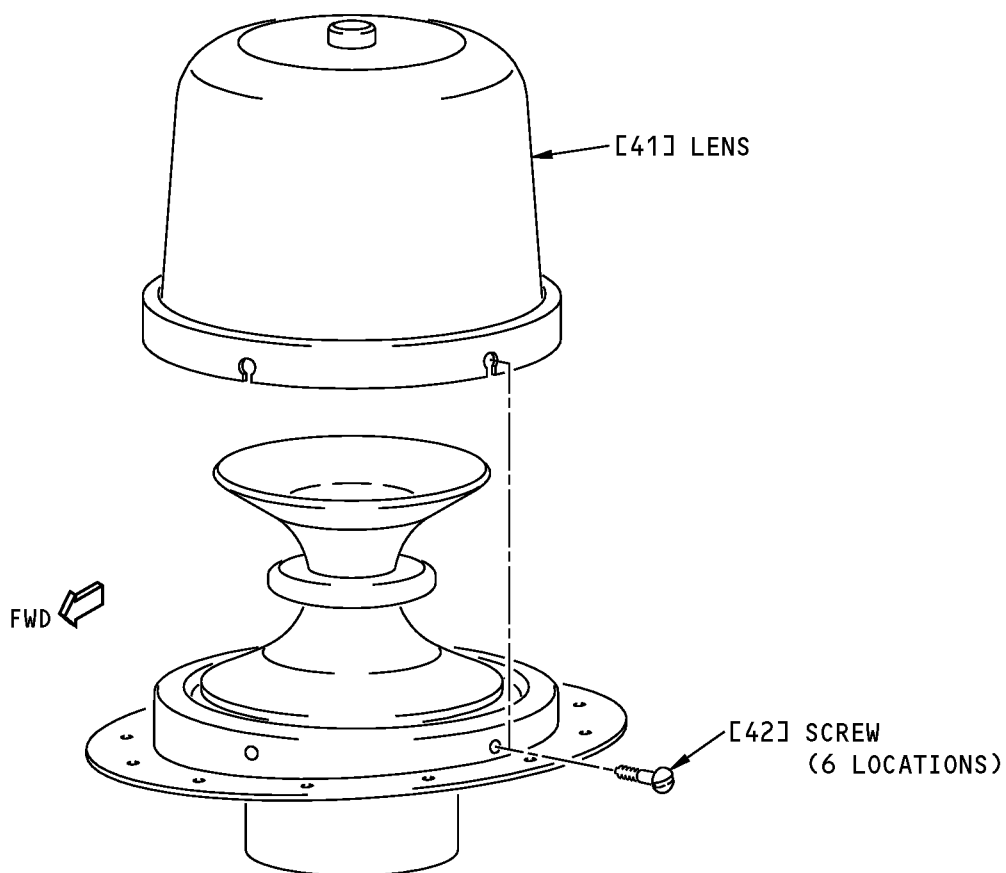
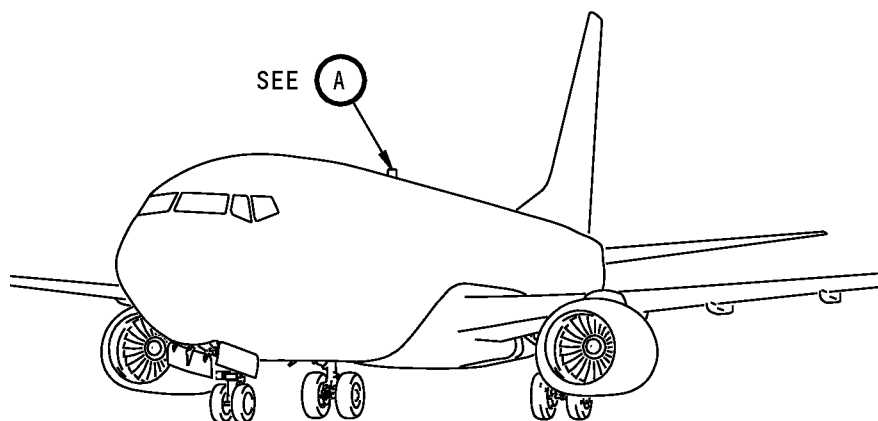
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33-44-01

Page 210
Oct 10/2004



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



UPPER ANTI-COLLISION LIGHT LENS

(A)

Upper Anti-Collision Light - Lens Replacement
Figure 203/33-44-01-990-803

EFFECTIVITY
HAP ALL

D633A101-HAP

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33-44-01

Page 211
Oct 10/2004



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

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)
25-21-45-000-801	Sculptured Ceiling Panel Removal (P/B 401)
25-21-45-400-801	Sculptured Ceiling Panel Installation (P/B 401)
33-44-00-710-801	Anti-Collision Lights - Operational Test (P/B 501)
SSM 33-44-11	System Schematics 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	Meter - Bonding (Approved Explosion Proof & Intrinsically Safe) (Part #: C15292 (MODEL T477W), Supplier: 01014, A/P Effectivity: 737-ALL) (Part #: M1, Supplier: 3AD17, A/P Effectivity: 737-ALL) (Part #: M1B, Supplier: 3AD17, A/P Effectivity: 737-ALL)

C. Location Zones

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

D. 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: Sculptured Ceiling Panel Removal, TASK 25-21-45-000-801.

NOTE: The power supply is installed to the right side of the anti-collision light.

SUBTASK 33-44-01-960-004

WARNING: DO NOT TOUCH THE POWER SUPPLY FOR 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 (SSM 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.

EFFECTIVITY
HAP ALL

D633A101-HAP

33-44-01

Page 212
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (c) Replace the power supply [62].
- (d) Tighten the fasteners [61].
- (e) Connect the electrical connectors [63].
- (f) With the electrical bonding meter, COM-1550, make sure the resistance between the power supply and the fuselage measures no more than 0.0025 ohms.

SUBTASK 33-44-01-410-003

- (4) Do this task: Sculptured Ceiling Panel Installation, TASK 25-21-45-400-801.

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.
 - (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** —————

EFFECTIVITY
HAP ALL

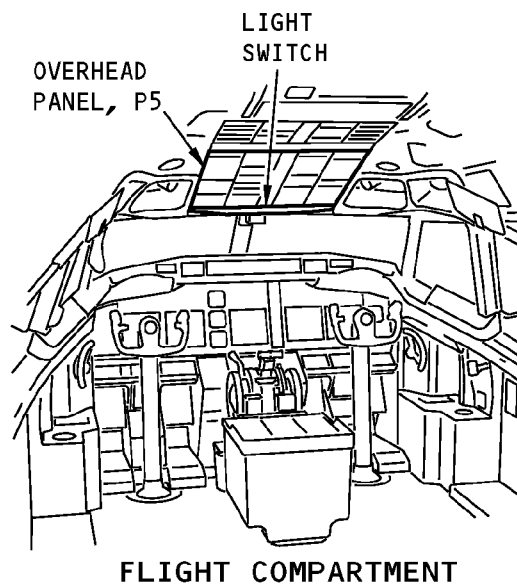
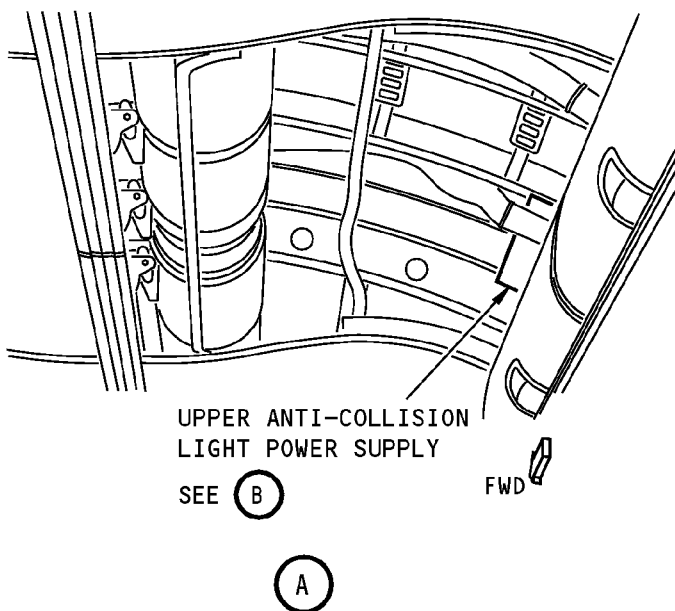
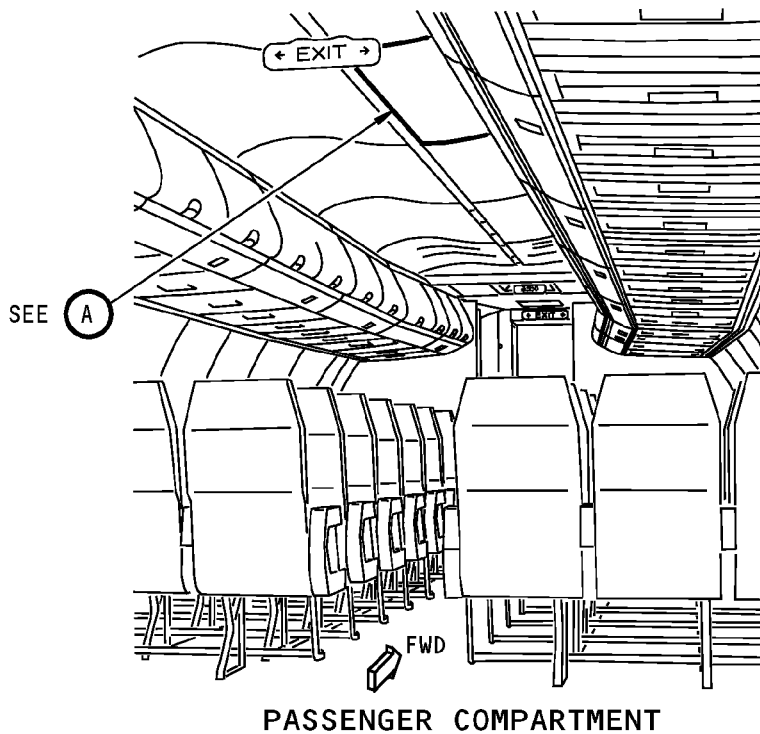
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33-44-01

Page 213
Feb 10/2007

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



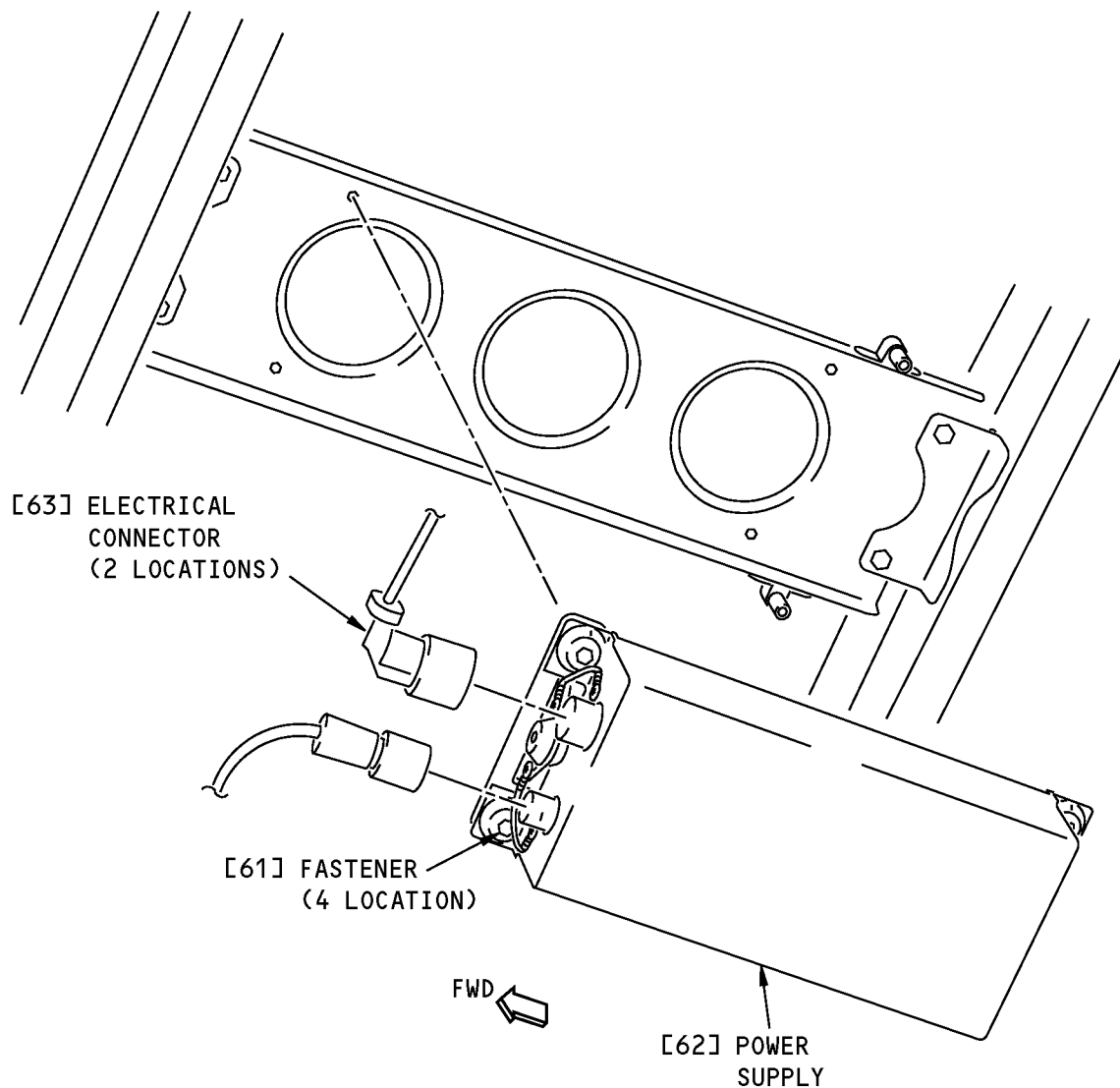
**Upper Anti-Collision Light - Power Supply Replacement
Figure 204 (Sheet 1 of 2)/33-44-01-990-804**

EFFECTIVITY
HAP ALL

33-44-01

Page 214
Oct 10/2004

D633A101-HAP



UPPER ANTI-COLLISION LIGHT POWER SUPPLY

(B)

**Upper Anti-Collision Light - Power Supply Replacement
Figure 204 (Sheet 2 of 2)/33-44-01-990-804**

**EFFECTIVITY
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D633A101-HAP

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33-44-01

Page 215
Oct 10/2004



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

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)
SSM 33-44-11	System Schematics Manual

C. Consumable Materials

Reference	Description	Specification
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	BMS15-5

D. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
4	Lamp assembly	33-44-02-01-052	HAP 001-013, 015-026, 028-030
		33-44-02-01A-055	HAP 031-054, 101-999

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 (SSM 33-44-11):

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

EFFECTIVITY
HAP ALL

33-44-02

Page 201
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (a) Loosen the screws [1] and lift away the lens [2].
- (b) Loosen the fastener [3] in the center of the lamp assembly.
- (c) Replace the lamp assembly [4].
- (d) Tighten the fastener [3].
- (e) Put on the lens [2] and tighten the screws [1].
 - 1) 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** —————

EFFECTIVITY
HAP ALL

D633A101-HAP

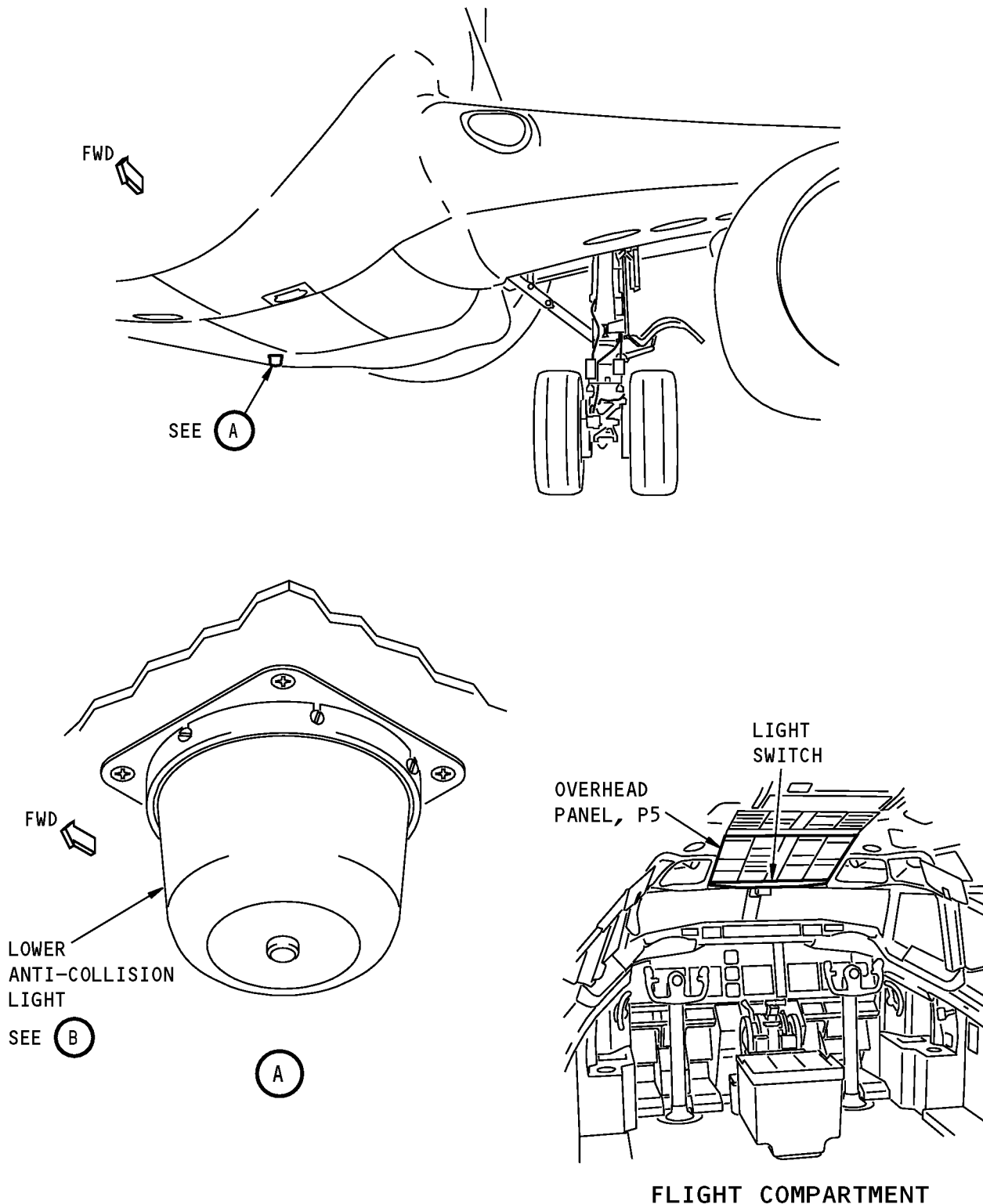
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33-44-02

Page 202
Oct 15/2008



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



Lower Anti-Collision Light - Lamp Assembly Replacement
Figure 201 (Sheet 1 of 2)/33-44-02-990-801

EFFECTIVITY
HAP ALL

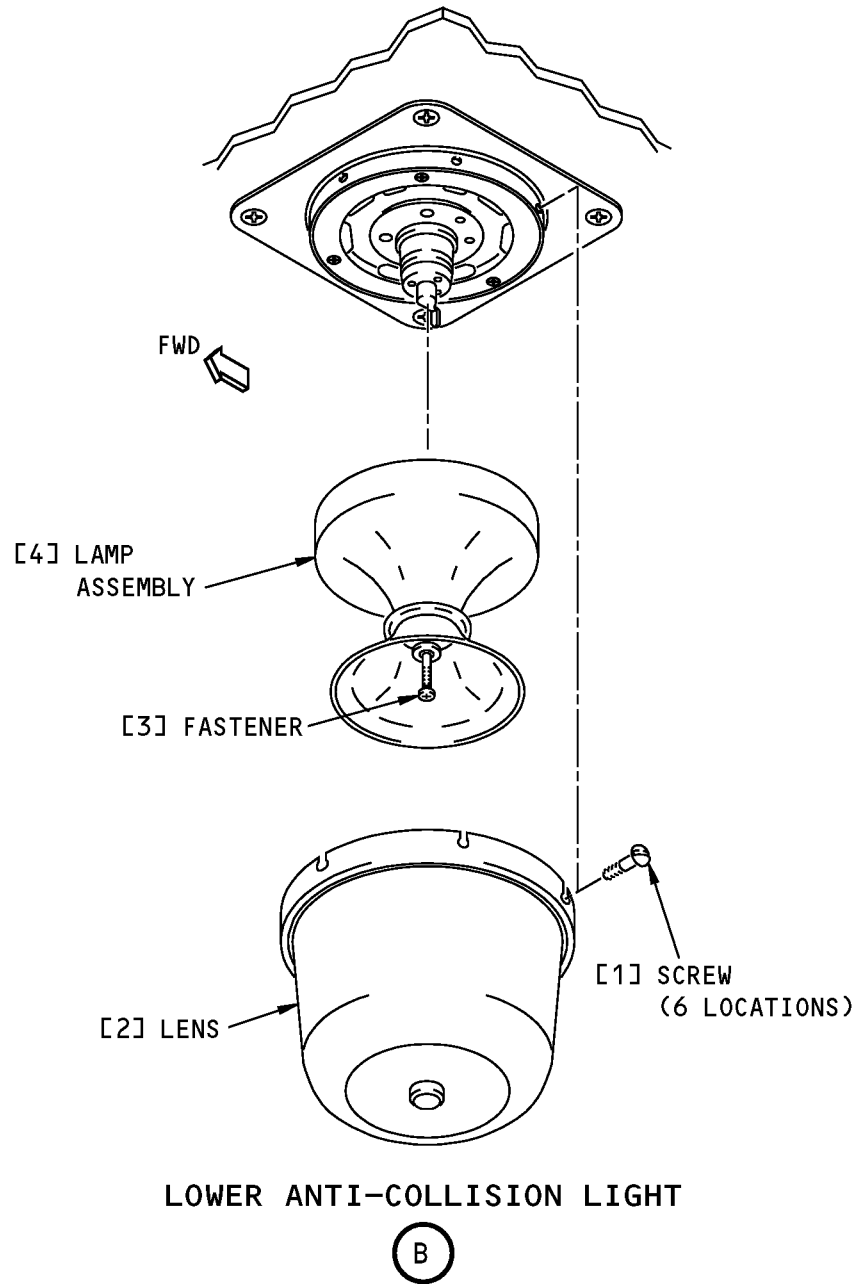
33-44-02

Page 203
Oct 10/2003

D633A101-HAP

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



Lower Anti-Collision Light - Lamp Assembly Replacement
Figure 201 (Sheet 2 of 2)/33-44-02-990-801

EFFECTIVITY
HAP ALL

D633A101-HAP

BOEING PROPRIETARY - Copyright © Unpublished Work - See title page for details

33-44-02

Page 204
Oct 10/2003



737-600/700/800/900

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)
SSM 33-44-11	System Schematics Manual

B. Consumable Materials

Reference	Description	Specification
A00247	Sealant - Pressure And Environmental - Chromate Type	BMS 5-95
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

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
25	Light assembly	33-44-02-01-025	HAP 001-013, 015-026, 028-030
		33-44-02-01-050	HAP 001-013, 015-026, 028-030
		33-44-02-01A-025	HAP 031-054, 101-999

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 (SSM 33-44-11):

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

- Remove the bolts [26].
- Pull down the light assembly [25], light assembly [25].
- Disconnect the electrical connector [21].
- Remove the nut [22] and washer [23].
- Lift off the ground wire [24].

EFFECTIVITY
HAP ALL

33-44-02

Page 205
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (f) Connect the ground wire [24] to the new light assembly.
- (g) Connect the electrical connector [21] to the new light assembly.
- (h) Put the light assembly [25], light assembly [25] in the opening.
- (i) Install the bolts [26] with the corrosion-preventative compound, C00528.
- (j) Apply the aerosmoothen sealant, A00247, around the base of the light assembly.
- (k) If the lens is dirty, clean it with a clean, soft, dry cotton wiper, G00034.
 - 1) Remove and discard the plug [41] on the bottom of the lens.

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
HAP ALL

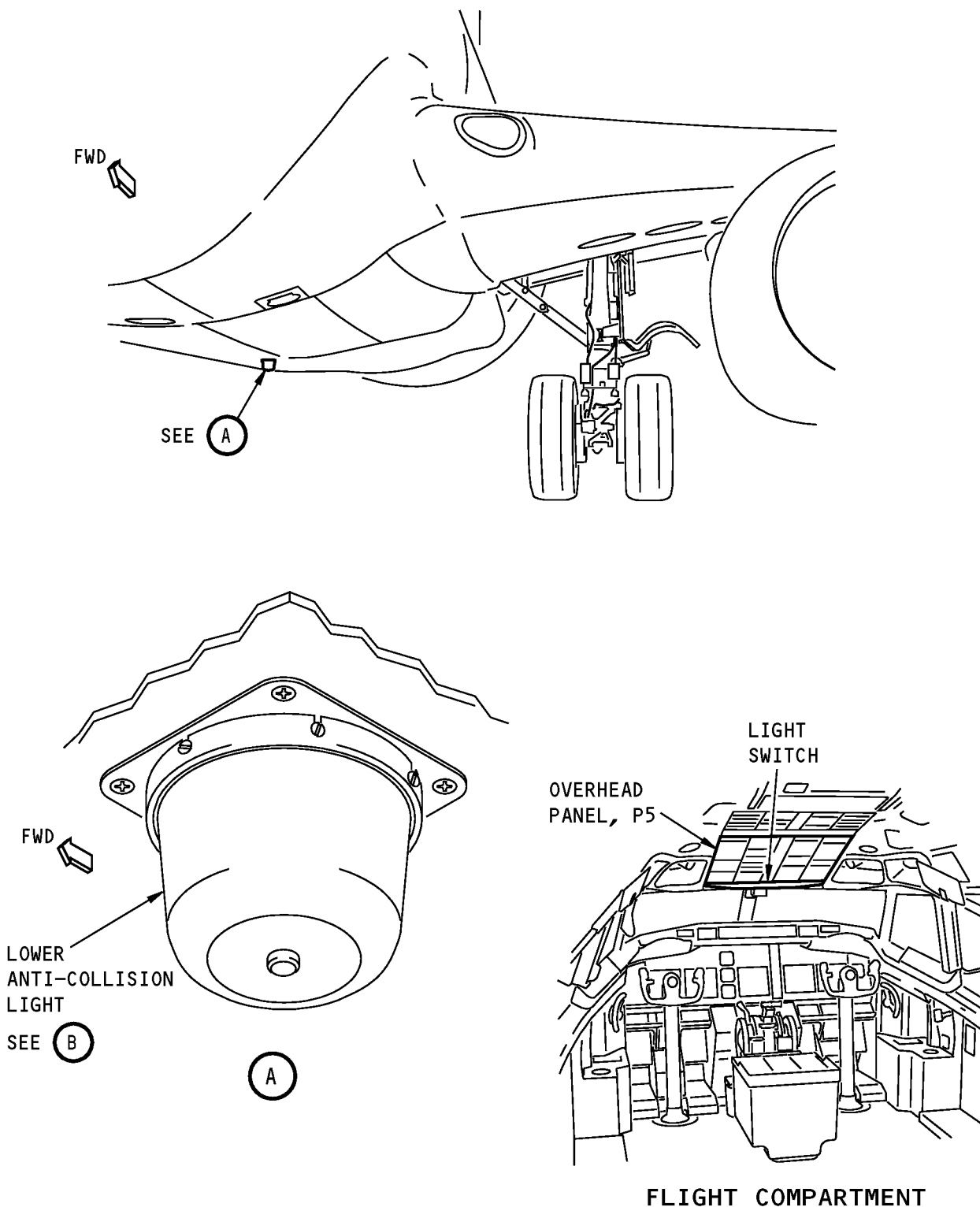
33-44-02

Page 206
Oct 15/2008

D633A101-HAP



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



Lower Anti-Collision Light - Light Assembly Replacement
Figure 202 (Sheet 1 of 2)/33-44-02-990-802

EFFECTIVITY
HAP ALL

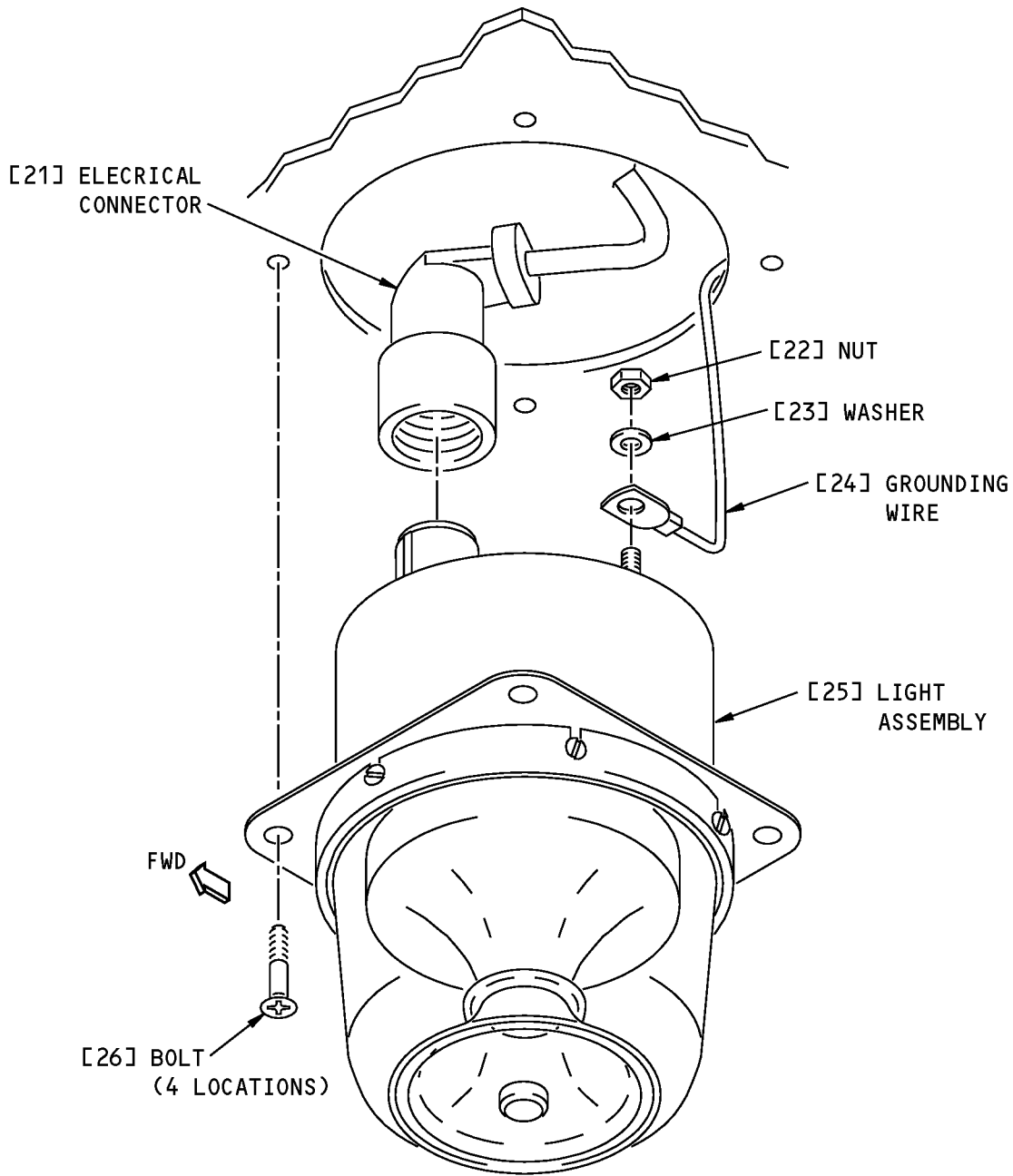
33-44-02

Page 207
Oct 10/2003

D633A101-HAP

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AIRCRAFT MAINTENANCE MANUAL**



LOWER ANTI-COLLISION LIGHT

(B)

**Lower Anti-Collision Light - Light Assembly Replacement
Figure 202 (Sheet 2 of 2)/33-44-02-990-802**

**EFFECTIVITY
HAP ALL**

33-44-02

Page 208
Oct 10/2003

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

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

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
2	Lens	33-44-02-01-040	HAP 001-013, 015-026, 028-030
		33-44-02-01A-040	HAP 031-054, 101-999

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].
 - 1) Remove and discard the plug [41] on the bottom of the new lens.

NOTE: The opening becomes a drain hole.

- 2) If the lens is dirty, clean it with a clean, soft, dry cotton wiper, G00034.

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

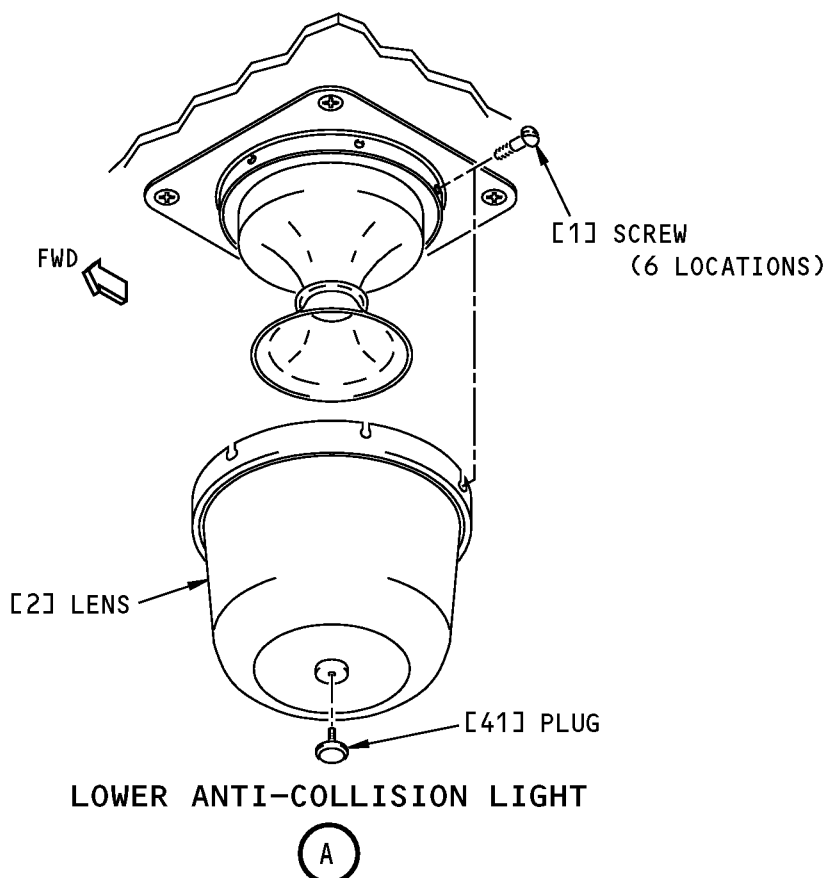
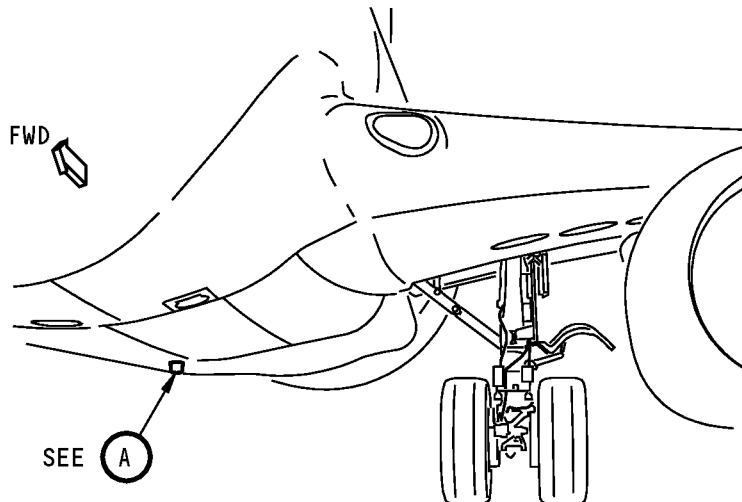
33-44-02

Page 209
Feb 15/2009

D633A101-HAP



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



Lower Anti-Collision Light - Lens Replacement
Figure 203/33-44-02-990-803

EFFECTIVITY
HAP ALL

33-44-02

Page 210
Oct 10/2003

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

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)
SSM 33-44-11	System Schematics 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	Meter - Bonding (Approved Explosion Proof & Intrinsically Safe) (Part #: C15292 (MODEL T477W), Supplier: 01014, A/P Effectivity: 737-ALL) (Part #: M1, Supplier: 3AD17, A/P Effectivity: 737-ALL) (Part #: M1B, Supplier: 3AD17, A/P Effectivity: 737-ALL)

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
62	Power supply	33-44-02-02-005	HAP 001-013, 015-026, 028-030
		33-44-02-02A-005	HAP 031-035
		33-44-02-02C-005	HAP 036-054, 101-999

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

EFFECTIVITY
HAP ALL

33-44-02

Page 211
Feb 15/2009

D633A101-HAP



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

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 (SSM 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 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:

<u>Number</u>	<u>Name/Location</u>
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.

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

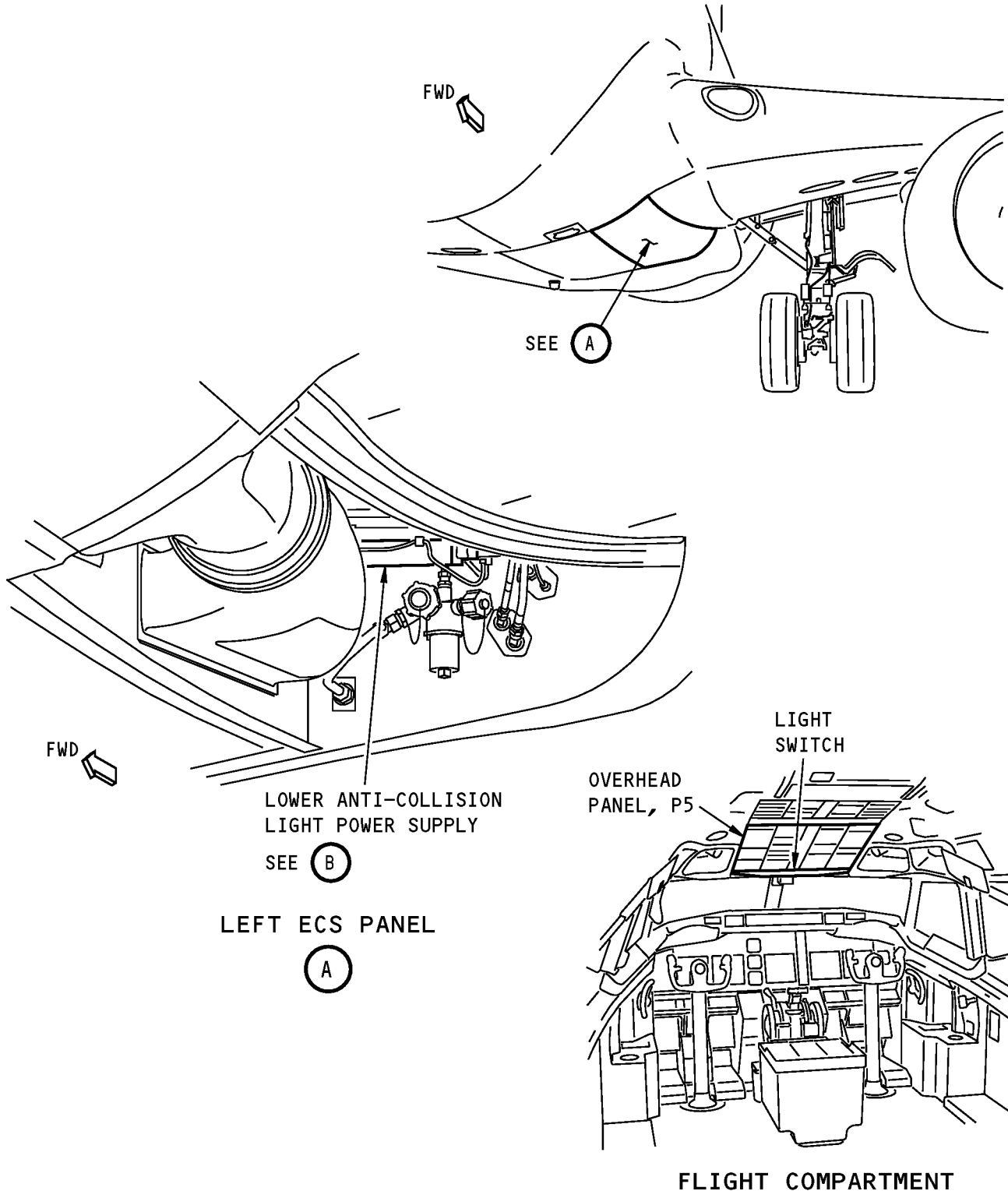
33-44-02

Page 212
Feb 10/2007

D633A101-HAP



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



Lower Anti-Collision Light - Power Supply Replacement
Figure 204 (Sheet 1 of 2)/33-44-02-990-804

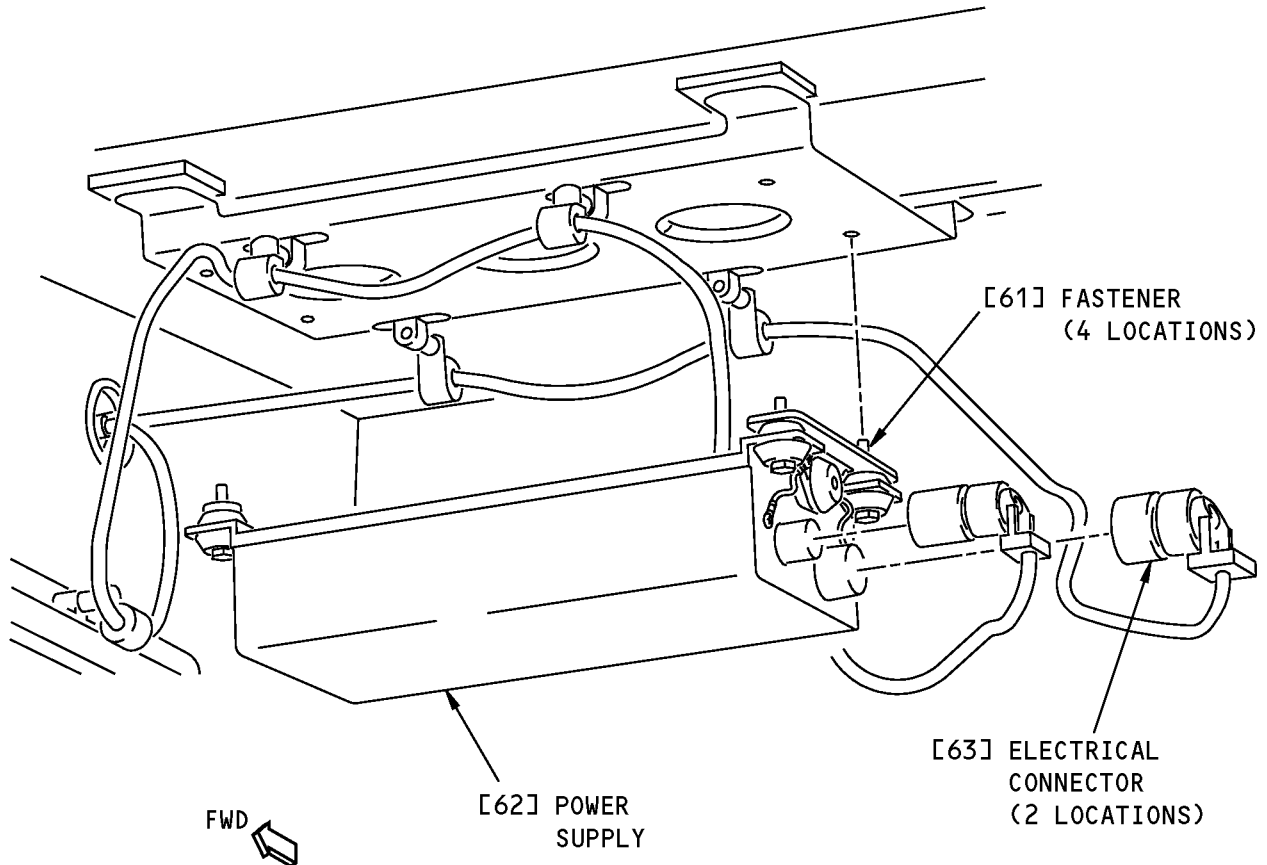
EFFECTIVITY
HAP ALL

33-44-02

Page 213
Oct 10/2003

D633A101-HAP

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LOWER ANTI-COLLISION LIGHT POWER SUPPLY

(B)

**Lower Anti-Collision Light - Power Supply Replacement
Figure 204 (Sheet 2 of 2)/33-44-02-990-804**

EFFECTIVITY
HAP ALL

D633A101-HAP

33-44-02

Page 214
Oct 10/2003



737-600/700/800/900

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)
SSM 33-44-12	System Schematics Manual

B. Consumable Materials

Reference	Description	Specification
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	BMS15-5
G50435	Lockwire - Safety and Lock, .813mm (.032 inch) brass	ASTM B134

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Lamp	33-44-04-01-030 33-44-04-02-030	HAP 031-054, 101-999 HAP 001-013, 015-026, 028-030

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	EXTERIOR 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 (SSM 33-44-12):

EFFECTIVITY
HAP ALL

33-44-04

Page 201
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (a) If it is necessary, remove the over-run sealant between the the black retainer of the lens [3] and the housing interface.
- (b) Remove the screws [4] and pull off the lens [3].
- (c) Remove the lockwire - .813 mm (.032 inch) Brass, G50435, from each end of the lamp (TASK 20-30-51-910-801).
- (d) Replace the lamp [1].
- (e) Install the lockwire - .813 mm (.032 inch) Brass, G50435 , between the lamp and the lamp receptacle (TASK 20-30-51-910-801).
- (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	EXTERIOR 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.

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

D633A101-HAP

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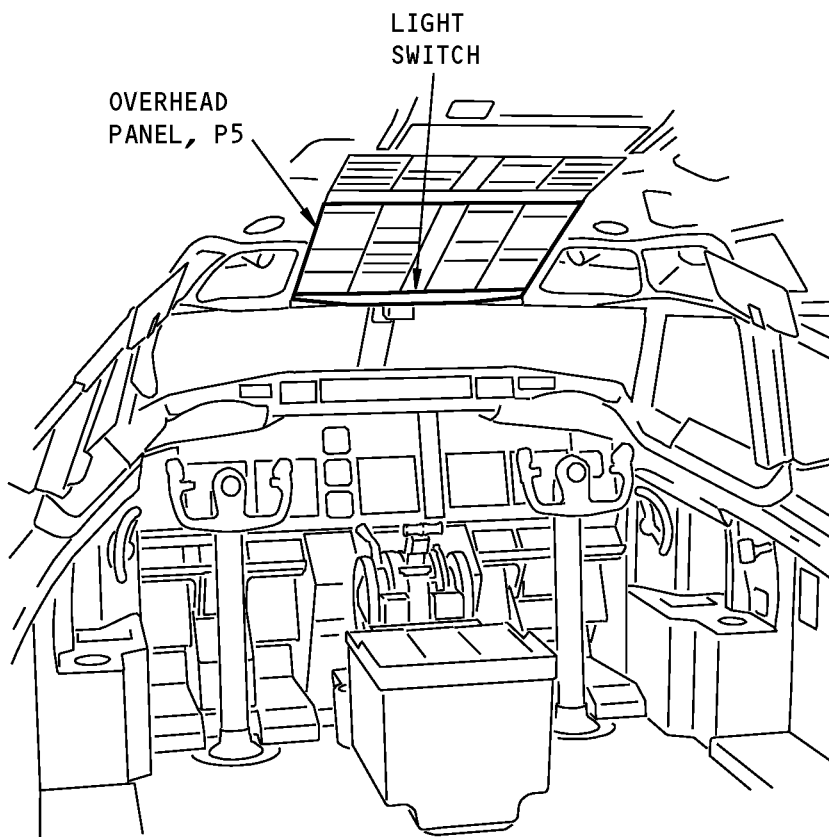
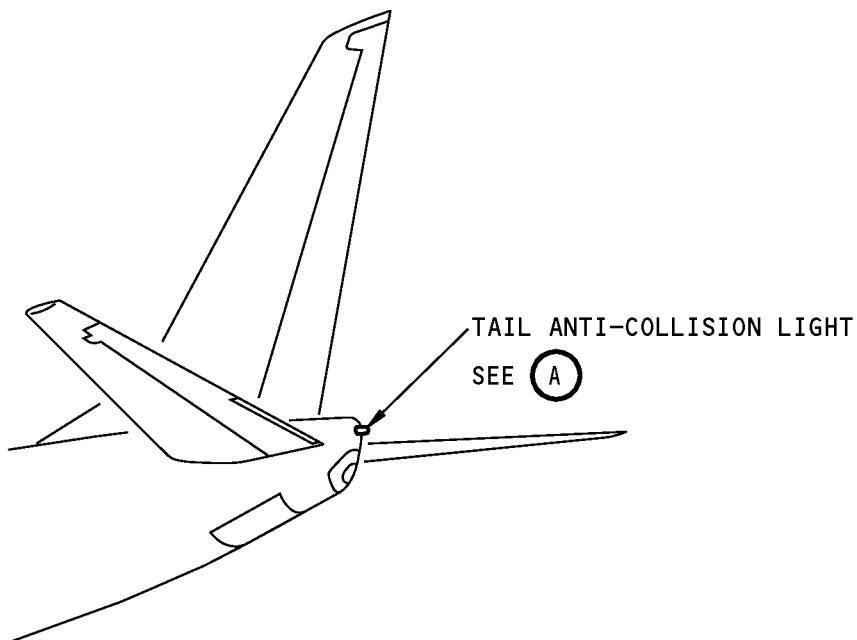
33-44-04

Page 202
Jun 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL



FLIGHT COMPARTMENT

Tail Anti-Collision Light - Lamp Replacement
Figure 201 (Sheet 1 of 2)/33-44-04-990-801

EFFECTIVITY
HAP ALL

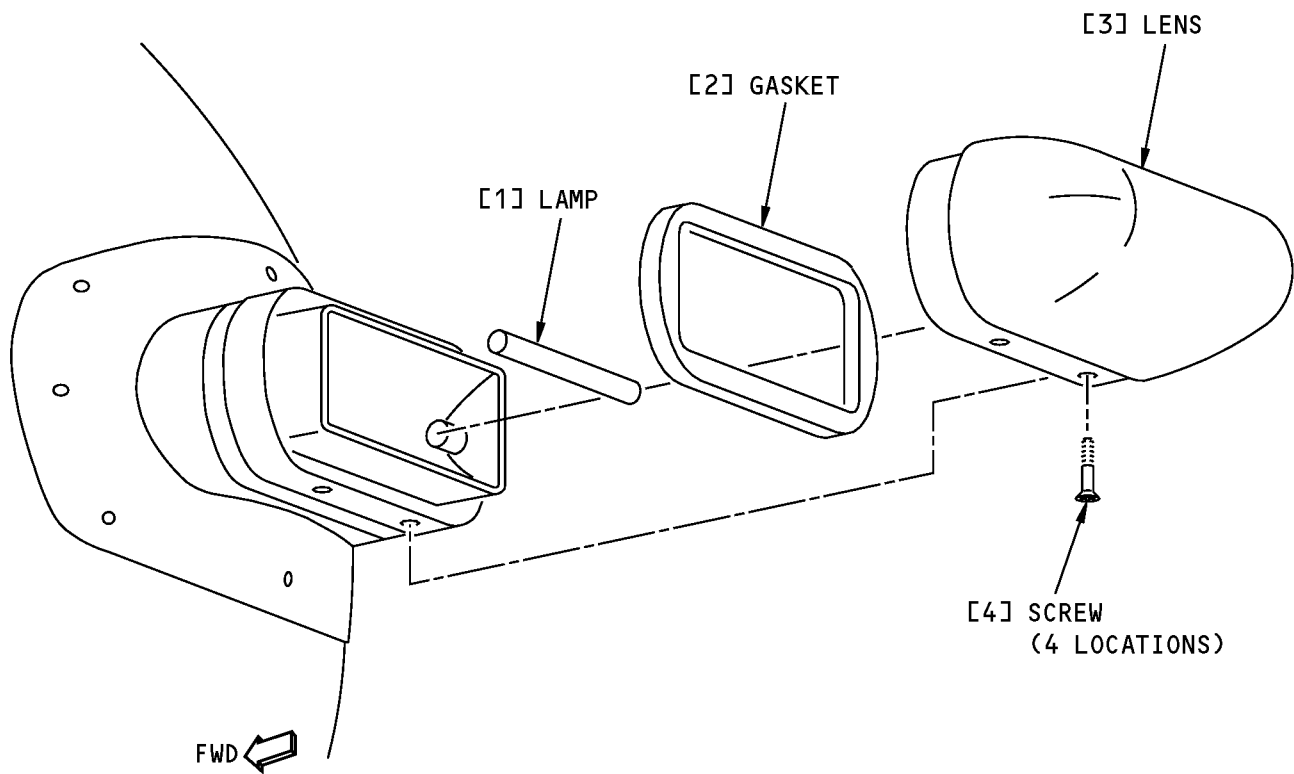
33-44-04

Page 203
Oct 10/2003

D633A101-HAP



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



TAIL ANTI-COLLISION LIGHT

A

Tail Anti-Collision Light - Lamp Replacement
Figure 201 (Sheet 2 of 2)/33-44-04-990-801

EFFECTIVITY
HAP ALL

D633A101-HAP

BOEING PROPRIETARY - Copyright © Unpublished Work - See title page for details

33-44-04

Page 204
Oct 10/2003



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

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)
SSM 33-44-12	System Schematics Manual

B. Consumable Materials

Reference	Description	Specification
A00247	Sealant - Pressure And Environmental - Chromate Type	BMS 5-95
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	BMS15-5

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
22	Light assembly	33-44-04-01-005 33-44-04-02-005	HAP 031-054, 101-999 HAP 001-013, 015-026, 028-030

D. Location Zones

Zone	Area
310	Fuselage - Body Station 1016.00 to Body Station 1217.00

E. 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	EXTERIOR LIGHTING ANTI COLLISION WHITE

SUBTASK 33-44-04-960-002

- (2) Do these steps to replace the light assembly (SSM 33-44-12):

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

- Remove the screws [21] and pull out the housing [24].
- Disconnect the electrical connector [25].
- Remove the bolts [23] that hold the light assembly to the housing.
- Replace the light assembly [22].
- Install the bolts [23] to hold the light assembly in the housing.
- Connect the electrical connector [25].
- Put the housing [24] in the fuselage.
- Install the screws [21].

EFFECTIVITY
HAP ALL**33-44-04**Page 205
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (i) Apply the aerosmoothen sealant, A00247, around the tailcone housing/tailcone and tail anti-collision light/tailcone housing interface.
- (j) 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	EXTERIOR 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.

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

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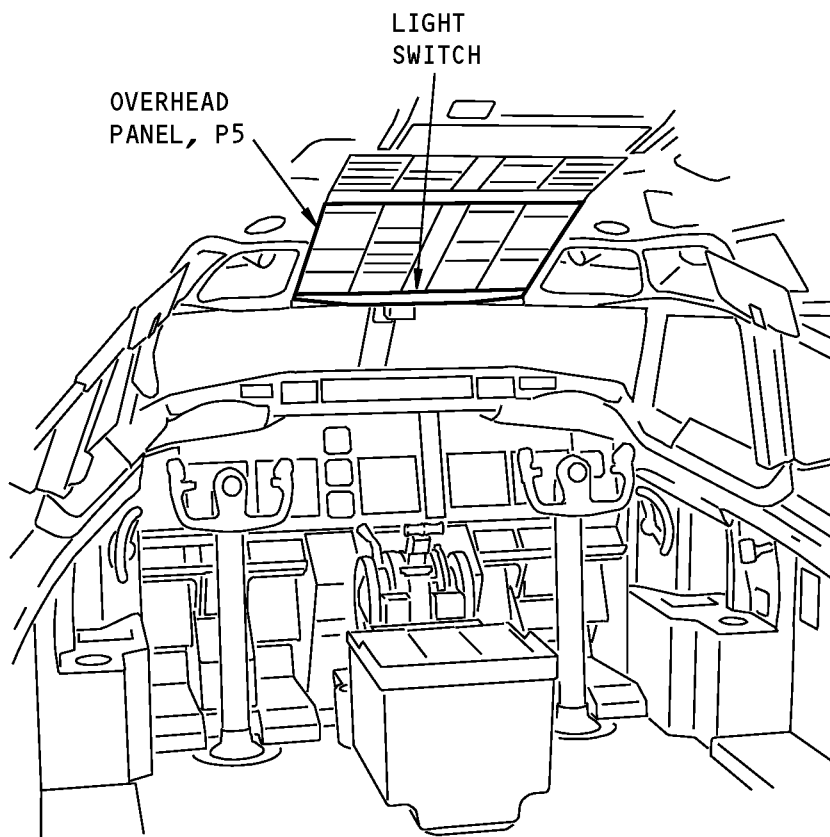
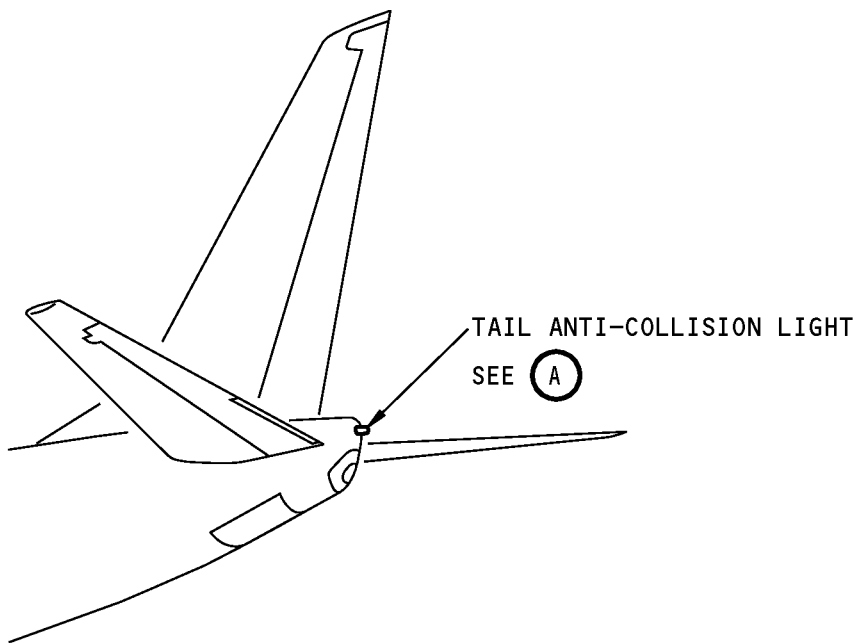
33-44-04

Page 206
Feb 10/2007



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL



FLIGHT COMPARTMENT

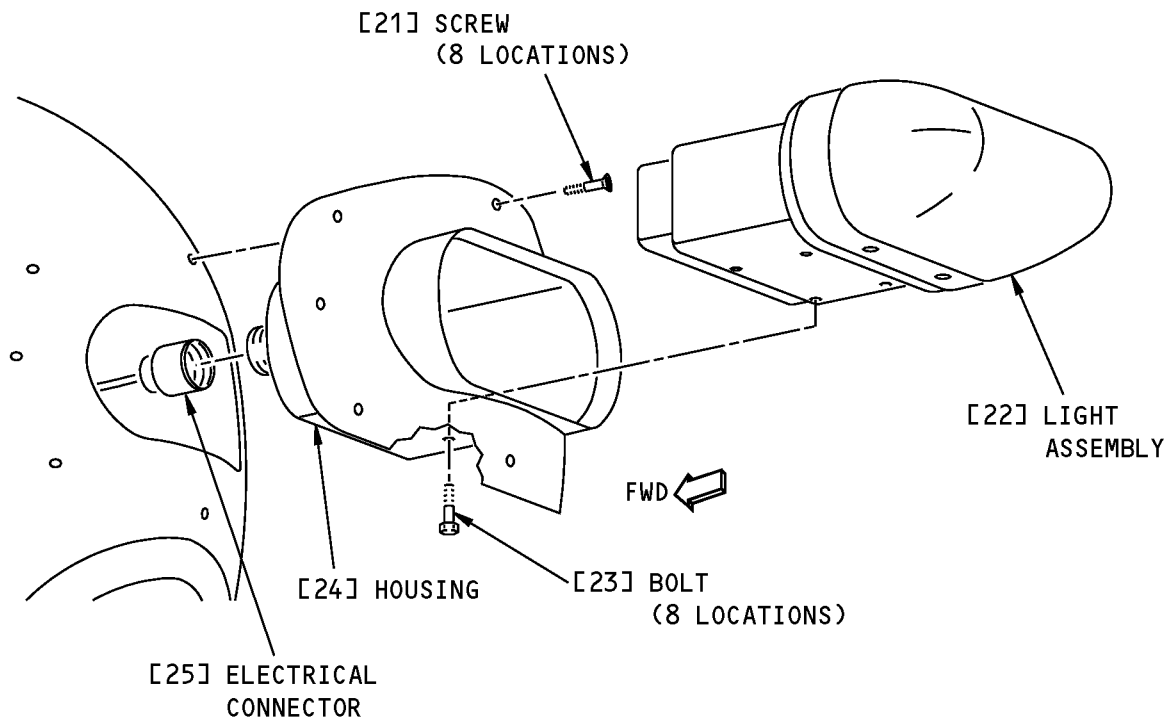
Tail Anti-Collision Light - Light Assembly Replacement
Figure 202 (Sheet 1 of 2)/33-44-04-990-802

EFFECTIVITY
HAP ALL

33-44-04

Page 207
Oct 10/2003

D633A101-HAP



TAIL ANTI-COLLISION LIGHT

A

Tail Anti-Collision Light - Light Assembly Replacement
Figure 202 (Sheet 2 of 2)/33-44-04-990-802

EFFECTIVITY
HAP ALL

33-44-04

Page 208
Oct 10/2003

D633A101-HAP



737-600/700/800/900

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

B. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
3	Lens	33-44-04-01-015	HAP 031-054, 101-999
		33-44-04-02-015	HAP 001-013, 015-026, 028-030

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.

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

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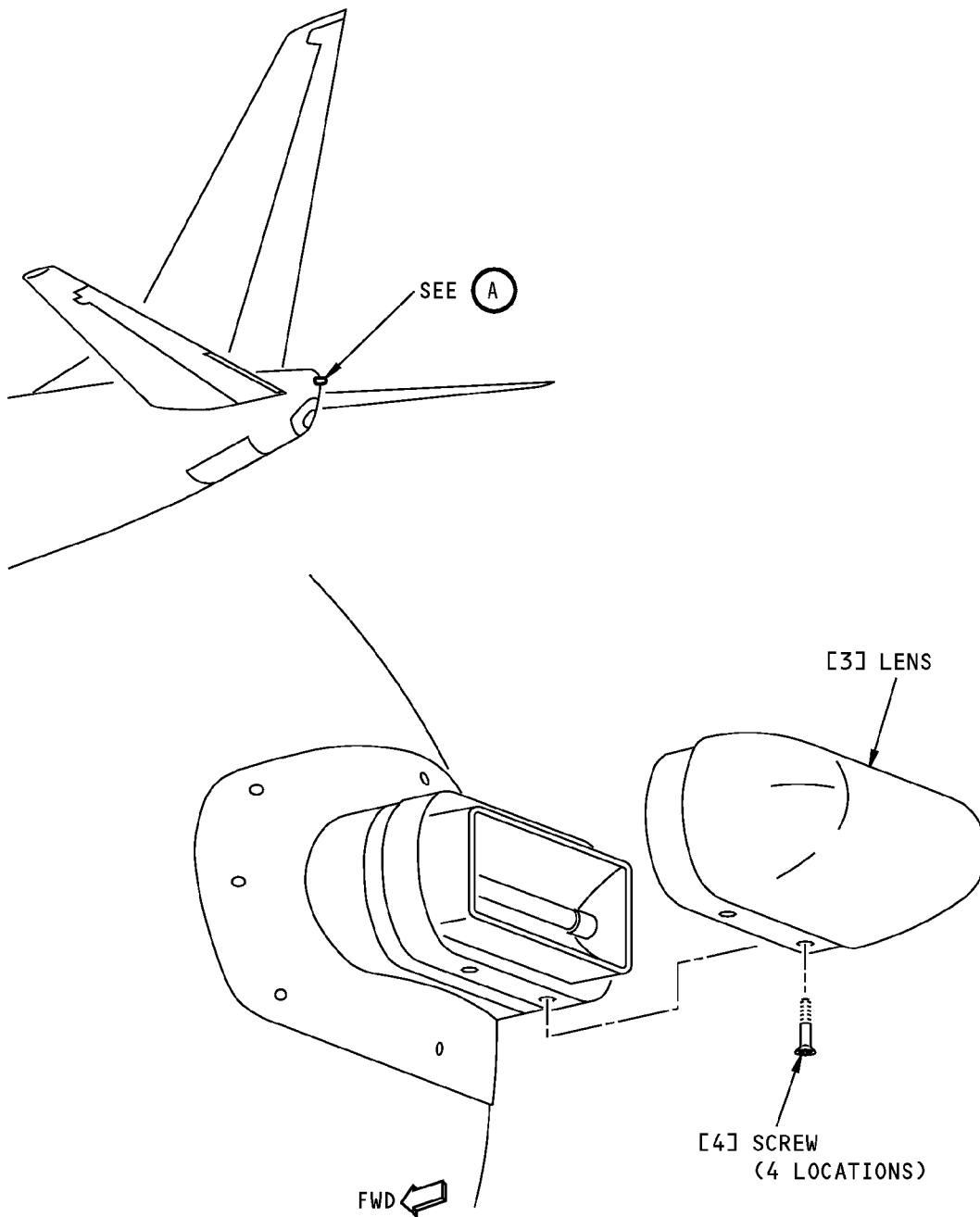
33-44-04

Page 209
Jun 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL



TAIL ANTI-COLLISION LIGHT LENS

(A)

Tail Anti-Collision Light - Lens Replacement
Figure 203/33-44-04-990-803

EFFECTIVITY
HAP ALL

D633A101-HAP

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33-44-04

Page 210
Oct 10/2003



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

WINGLET ANTI-COLLISION LIGHTS - MAINTENANCE PRACTICES

1. General

A. This procedure has these tasks:

- (1) Wing Anti-Collision Light - Light Assembly Replacement

HAP ALL; AIRPLANES WITH SINGLE FORWARD LENS CONFIGURATION

- (2) Wing Anti-Collision Light - Power Supply Replacement
- (3) Wing Anti-Collision Light - Disconnect the Electrical Connector
- (4) Wing Anti-Collision Light - Connect the Electrical Connector

HAP ALL; AIRPLANES WITH DUAL FORWARD LENS CONFIGURATION

- (5) Wing Anti-Collision Light - Attenuator Assembly Replacement

HAP 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	Meter - Bonding (Approved Explosion Proof & Intrinsically Safe) (Part #: C15292 (MODEL T477W), Supplier: 01014, A/P Effectivity: 737-ALL) (Part #: M1, Supplier: 3AD17, A/P Effectivity: 737-ALL) (Part #: M1B, Supplier: 3AD17, A/P Effectivity: 737-ALL)

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:

EFFECTIVITY
HAP ALL

33-44-13

Page 201
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

HAP ALL; AIRPLANES WITH SINGLE FORWARD LENS CONFIGURATION (Continued)

- (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 anti-collision 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 to attach the light assembly.
(c) With the electrical 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.

SUBTASK 33-44-13-860-002

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

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

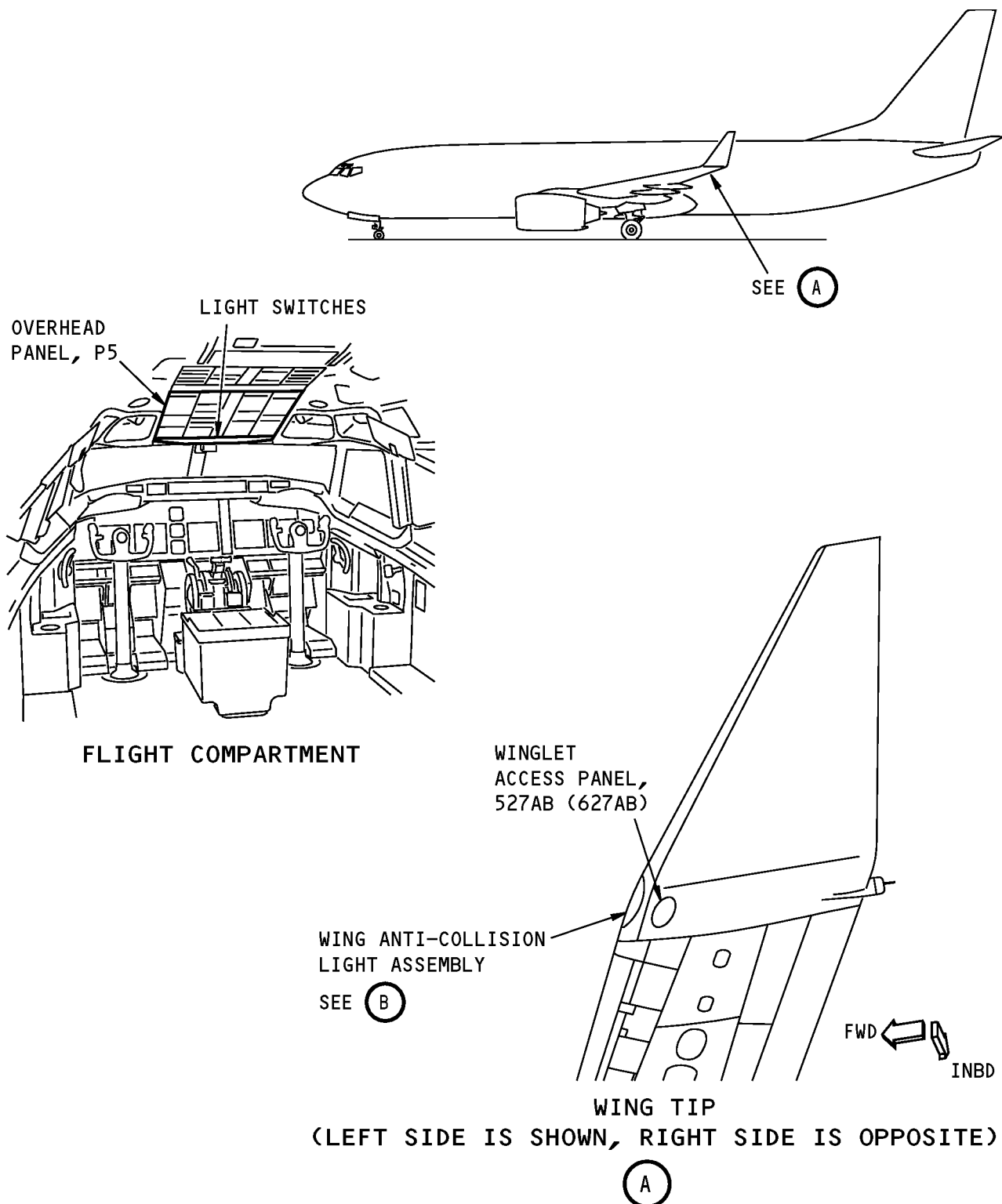
33-44-13

Page 202
Feb 15/2009

D633A101-HAP



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



Wing Anti-Collision Light - Light Assembly Replacement
Figure 201 (Sheet 1 of 3)/33-44-13-990-801

EFFECTIVITY
HAP ALL; AIRPLANES WITH SINGLE FORWARD LENS
CONFIGURATION

33-44-13

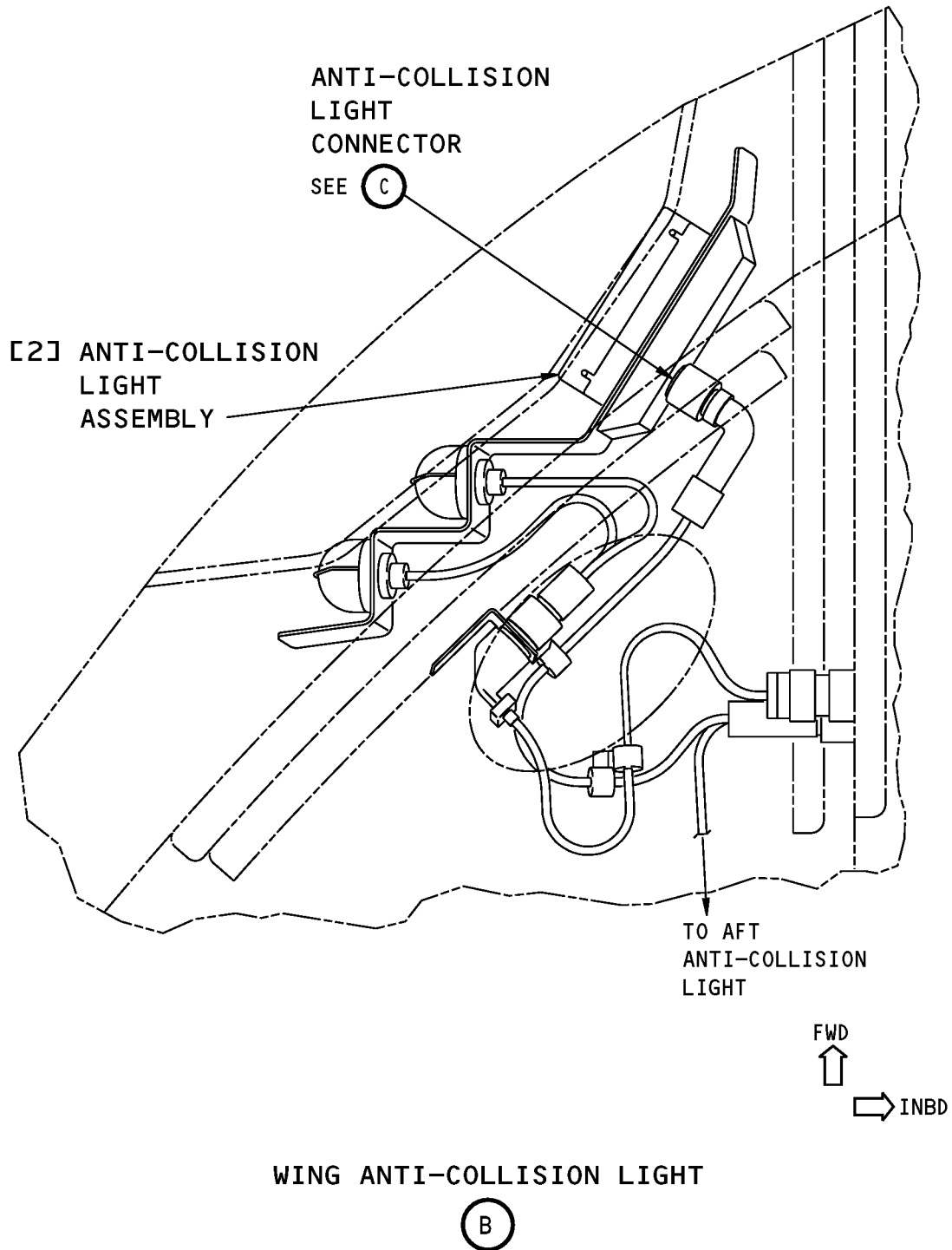
Page 203
Jun 10/2006

D633A101-HAP

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



Wing Anti-Collision Light - Light Assembly Replacement
Figure 201 (Sheet 2 of 3)/33-44-13-990-801

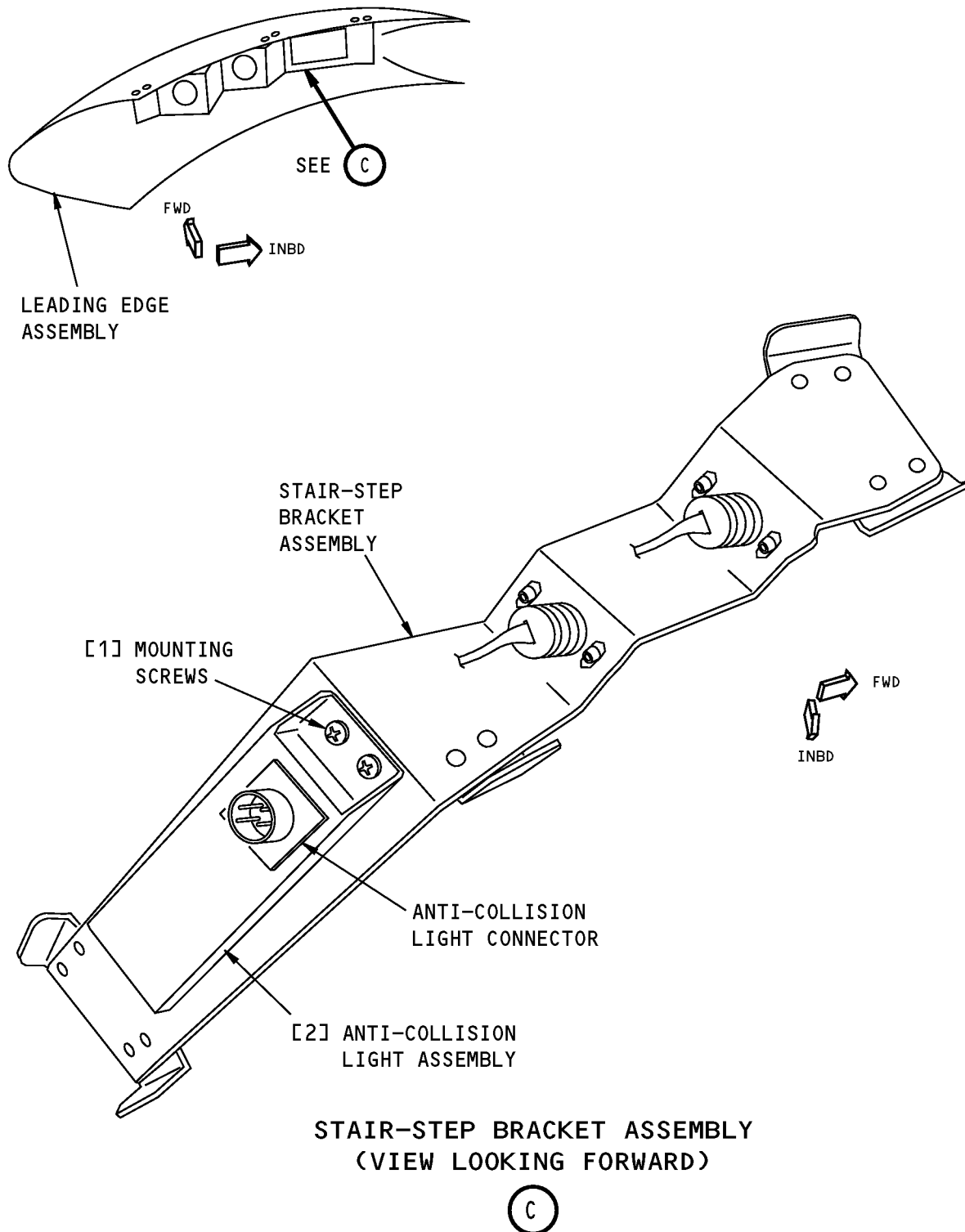
EFFECTIVITY
HAP ALL; AIRPLANES WITH SINGLE FORWARD LENS
CONFIGURATION

D633A101-HAP

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33-44-13

Page 204
Jun 10/2006



Wing Anti-Collision Light - Light Assembly Replacement
Figure 201 (Sheet 3 of 3)/33-44-13-990-801

EFFECTIVITY
HAP ALL; AIRPLANES WITH SINGLE FORWARD LENS
CONFIGURATION

D633A101-HAP

33-44-13

Page 205
Jun 10/2006



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

HAP ALL; AIRPLANES WITH SINGLE FORWARD LENS CONFIGURATION (Continued)

HAP 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	Meter - Bonding (Approved Explosion Proof & Intrinsically Safe) (Part #: C15292 (MODEL T477W), Supplier: 01014, A/P Effectivity: 737-ALL) (Part #: M1, Supplier: 3AD17, A/P Effectivity: 737-ALL) (Part #: M1B, Supplier: 3AD17, A/P Effectivity: 737-ALL)

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	EXTERIOR 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.

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]:

EFFECTIVITY
HAP ALL

33-44-13

Page 206
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

HAP ALL; AIRPLANES WITH DUAL FORWARD LENS CONFIGURATION (Continued)

- (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 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.

SUBTASK 33-44-13-420-002

- (4) 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 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.

SUBTASK 33-44-13-420-003

- (5) Install the anti-collision lens assembly. Do this task: Forward Position Light and Anti-Collision Light Lens (Dual Forward Lens) Installation, TASK 57-21-22-400-804.

SUBTASK 33-44-13-860-013

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

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	13	C00115	EXTERIOR LIGHTING ANTI COLLISION WHITE

SUBTASK 33-44-13-860-014

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

SUBTASK 33-44-13-860-012

- (8) 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

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

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

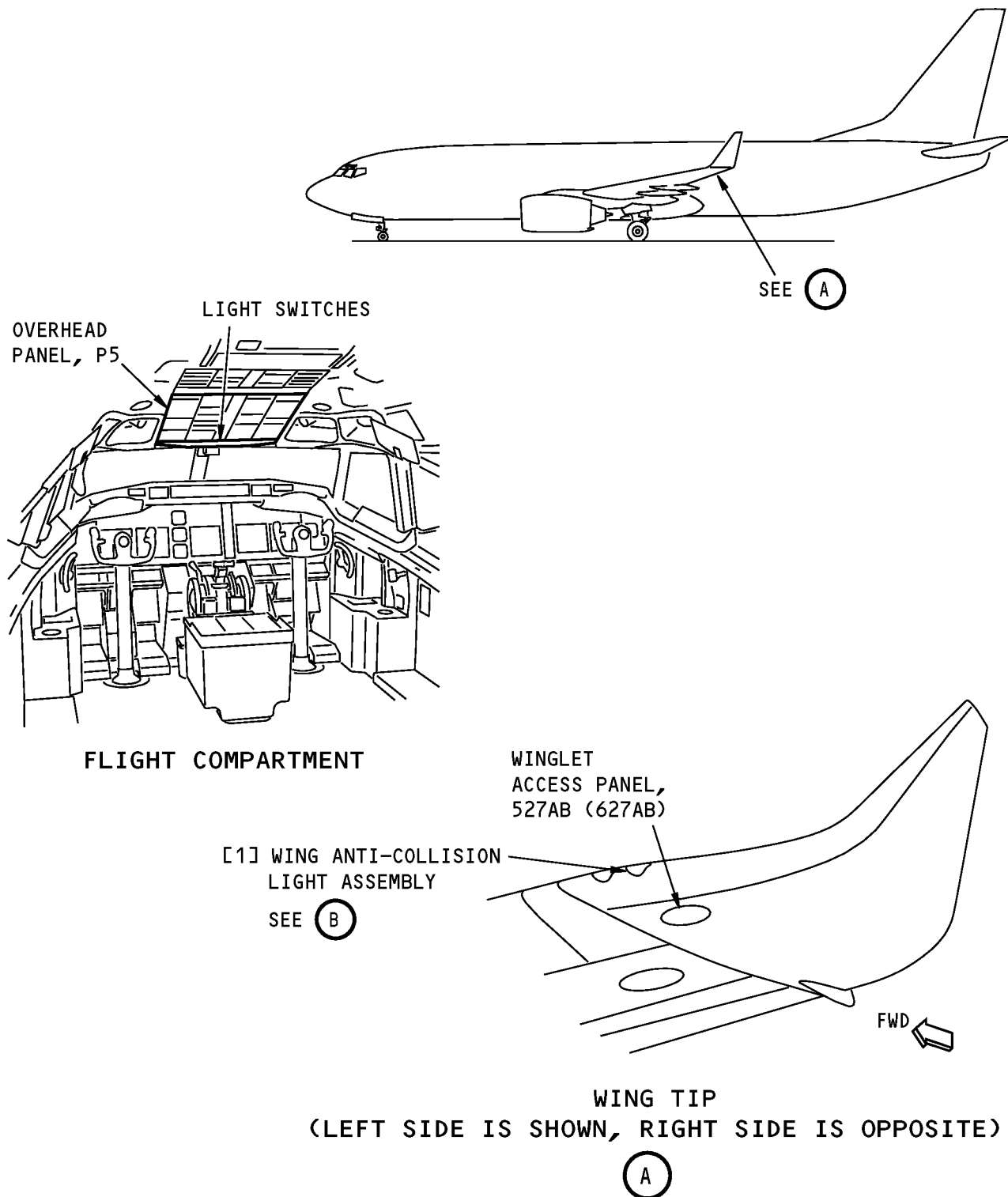
33-44-13

Page 207
Feb 15/2009

D633A101-HAP



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



Wing Anti-Collision Light - Light Assembly Replacement
Figure 202 (Sheet 1 of 2)/33-44-13-990-804

EFFECTIVITY
HAP ALL; AIRPLANES WITH DUAL FORWARD LENS
CONFIGURATION

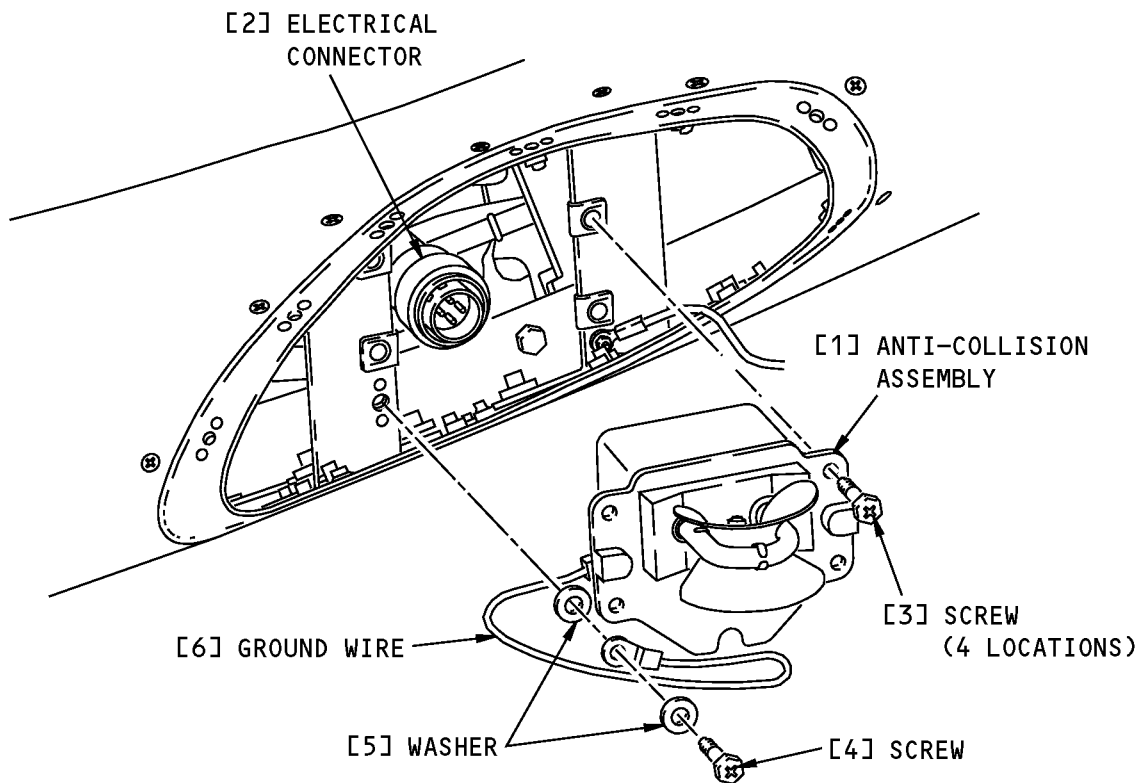
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33-44-13

Page 208
Jun 10/2006

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



WING ANTI-COLLISION LIGHT ASSEMBLY
(ANTI-COLLISION LENS ASSEMBLY REMOVED)

(B)

Wing Anti-Collision Light - Light Assembly Replacement
Figure 202 (Sheet 2 of 2)/33-44-13-990-804

EFFECTIVITY
HAP ALL; AIRPLANES WITH DUAL FORWARD LENS
CONFIGURATION

D633A101-HAP

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33-44-13

Page 209
Jun 10/2006



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

HAP ALL; AIRPLANES WITH DUAL FORWARD LENS CONFIGURATION (Continued)

HAP ALL; AIRPLANES WITH SINGLE FORWARD LENS CONFIGURATION

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)
SSM 33-44-12	System Schematics Manual
SWPM 20-20-00	Electrical Bonds and Grounds

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	Meter - Bonding (Approved Explosion Proof & Intrinsically Safe) (Part #: C15292 (MODEL T477W), Supplier: 01014, A/P Effectivity: 737-ALL) (Part #: M1, Supplier: 3AD17, A/P Effectivity: 737-ALL) (Part #: M1B, Supplier: 3AD17, A/P Effectivity: 737-ALL)

C. Consumable Materials

Reference	Description	Specification
A50155	Sealant - Fuel Tank	BMS5-45 Class C

D. Location Zones

Zone	Area
526	Left Wing - Wing Tip
626	Right Wing - Wing Tip

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 33-44-13-860-003

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
B	13	C00115	EXTERIOR LIGHTING ANTI COLLISION WHITE

EFFECTIVITY
HAP ALL

33-44-13

Page 210
Jun 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

HAP ALL; AIRPLANES WITH SINGLE FORWARD LENS CONFIGURATION (Continued)

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 (SSM 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:

<u>Number</u>	<u>Name/Location</u>
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 to the fay surface ground areas on the bracket and the new power supply [22].

a) Make sure the layer of sealant, A50155 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 18-22 pound-inches (2.0-2.5 Newton-meters).

(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 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].

(k) Close the applicable access panels:

<u>Number</u>	<u>Name/Location</u>
521AAB	Lower Leading Edge Access Panel - Slat Station 508.31
621ZB	Lower Leading Edge Access Panel - Slat Station 508.31

EFFECTIVITY
HAP ALL

33-44-13

Page 211
Jun 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

HAP ALL; AIRPLANES WITH SINGLE FORWARD LENS CONFIGURATION (Continued)

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	EXTERIOR 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
HAP ALL

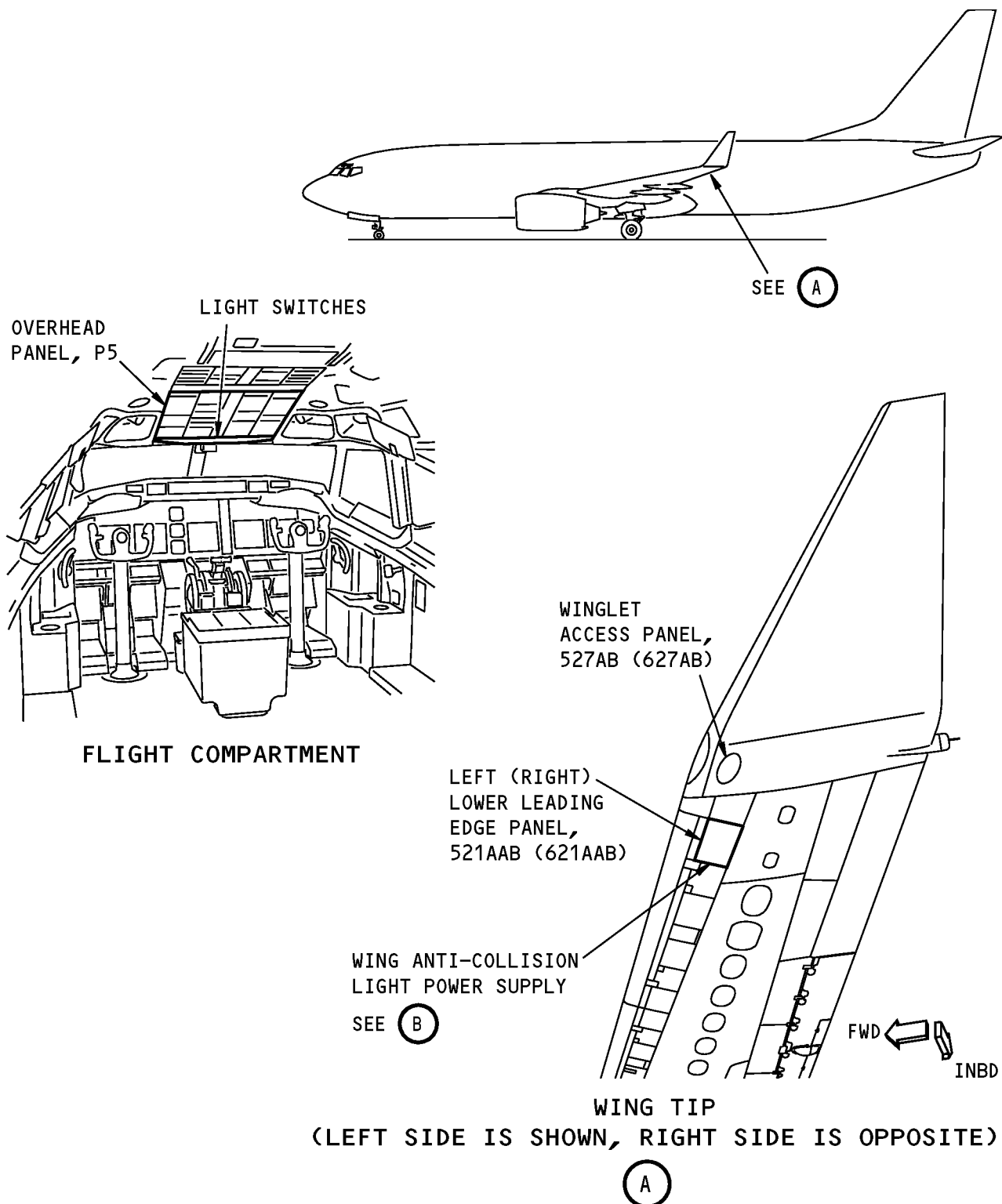
33-44-13

Page 212
Jun 15/2009

D633A101-HAP



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



Wing Anti-Collision Light - Power Supply Replacement
Figure 203 (Sheet 1 of 2)/33-44-13-990-802

EFFECTIVITY
HAP ALL; AIRPLANES WITH SINGLE FORWARD LENS
CONFIGURATION

33-44-13

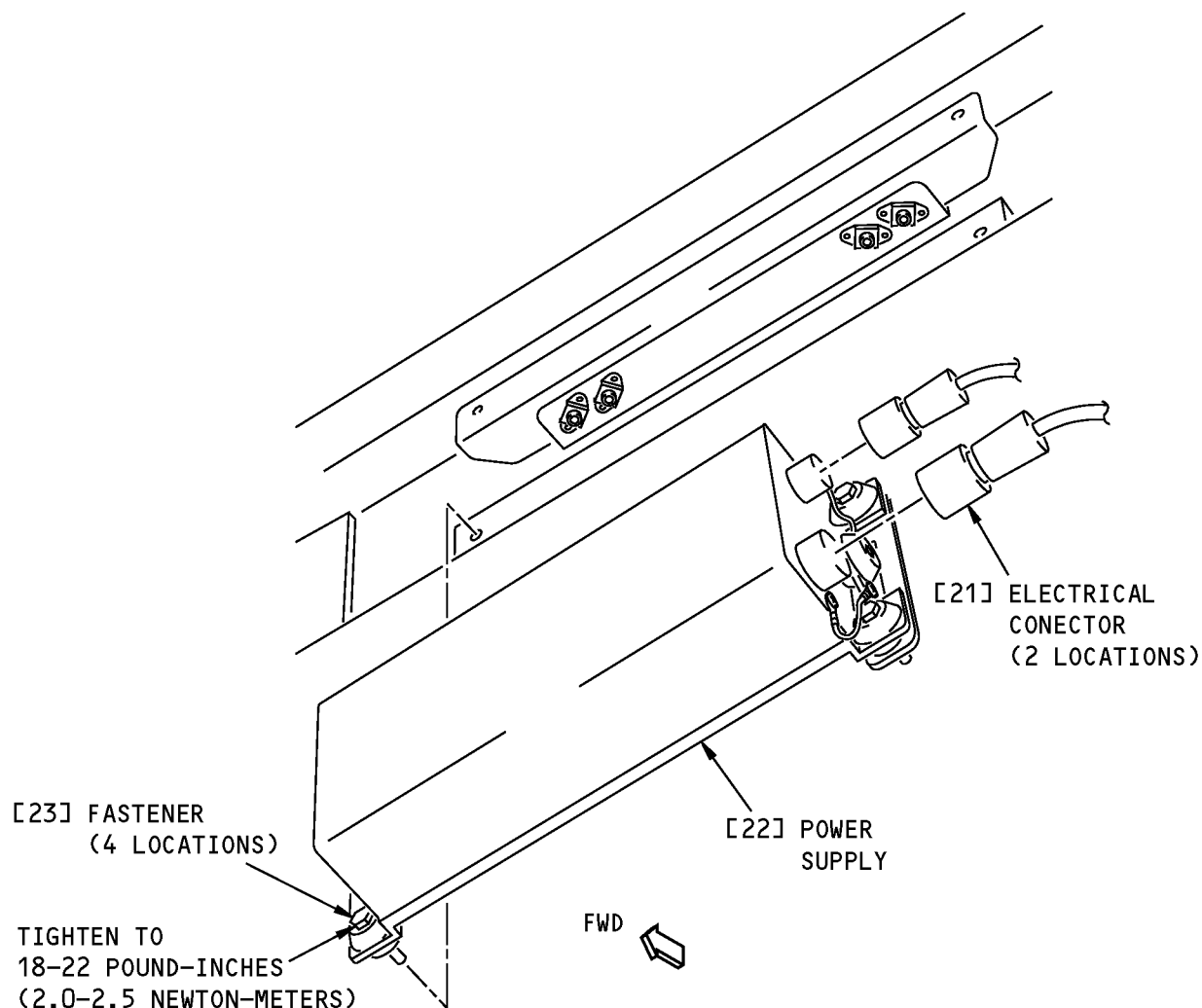
Page 213
Jun 10/2006

D633A101-HAP

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



WING ANTI-COLLISION LIGHT POWER SUPPLY

B

Wing Anti-Collision Light - Power Supply Replacement
Figure 203 (Sheet 2 of 2)/33-44-13-990-802

EFFECTIVITY
HAP ALL; AIRPLANES WITH SINGLE FORWARD LENS
CONFIGURATION

33-44-13

Page 214
Jun 10/2006

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

HAP ALL; AIRPLANES WITH SINGLE FORWARD LENS CONFIGURATION (Continued)

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
SSM 33-44-12	System Schematics 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	EXTERIOR 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 (SSM 33-44-12).

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

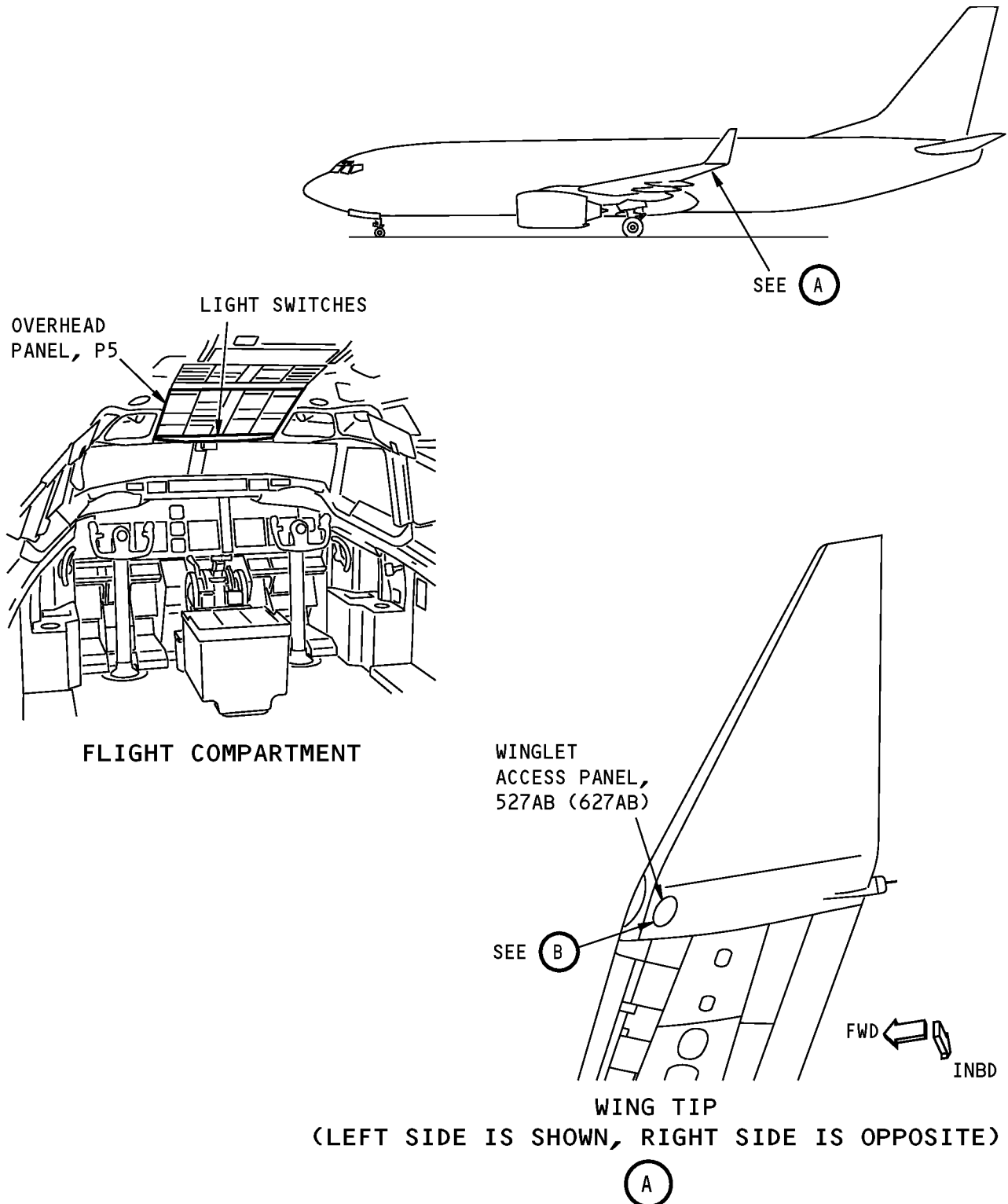
33-44-13

Page 215
Jun 10/2006

D633A101-HAP



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



Wing Anti-Collision Light - Disconnect/Connect the Electrical Connector
Figure 204 (Sheet 1 of 2)/33-44-13-990-803

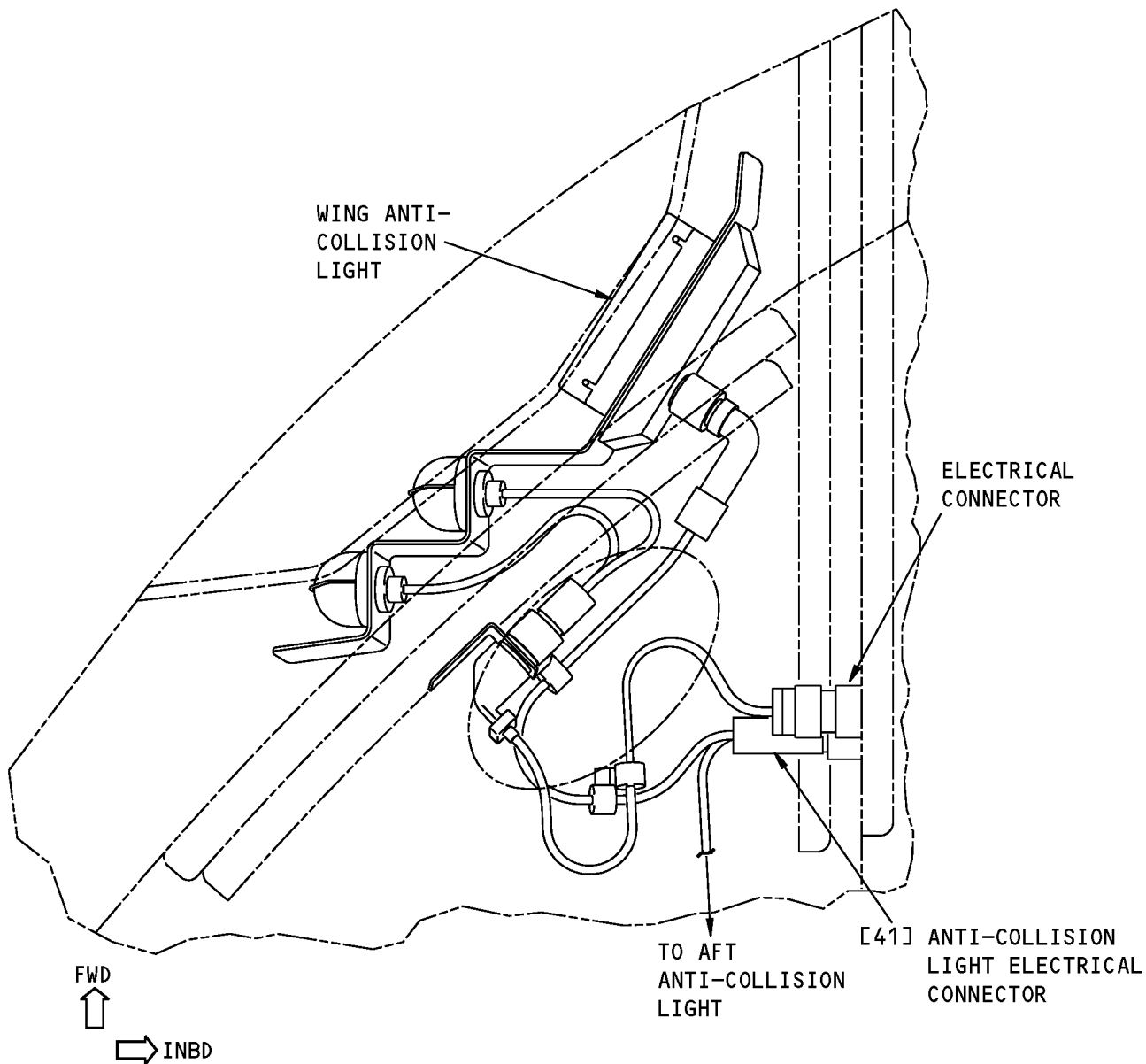
EFFECTIVITY
HAP ALL; AIRPLANES WITH SINGLE FORWARD LENS
CONFIGURATION

D633A101-HAP

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33-44-13

Page 216
Jun 10/2006



**WING ANTI-COLLISION LIGHT
ELECTRICAL CONNECTOR**

(B)

Wing Anti-Collision Light - Disconnect/Connect the Electrical Connector
Figure 204 (Sheet 2 of 2)/33-44-13-990-803

EFFECTIVITY
HAP ALL; AIRPLANES WITH SINGLE FORWARD LENS
CONFIGURATION

D633A101-HAP

BOEING PROPRIETARY - Copyright © Unpublished Work - See title page for details

33-44-13

Page 217
 Jun 10/2006



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

HAP 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)
SSM 33-44-12	System Schematics 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 (SSM 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	EXTERIOR 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.

EFFECTIVITY
HAP ALL

33-44-13

Page 218
Jun 10/2006

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

HAP ALL; AIRPLANES WITH SINGLE FORWARD LENS CONFIGURATION (Continued)

- 1) Make sure the wing anti-collision light flashes (Anti-Collision Lights - Operational Test, TASK 33-44-00-710-801).
- (b) Set the switch to the off mode.
 - 1) Make sure the light goes off.

SUBTASK 33-44-13-860-010

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

END OF TASK

HAP ALL; AIRPLANES WITH DUAL FORWARD LENS CONFIGURATION

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)
SSM 33-43-11	System Schematics Manual

B. Location Zones

Zone	Area
527	Left Winglet
627	Right Winglet

C. Access Panels

Number	Name/Location
527AB	Winglet Access Panel
627AB	Winglet Access Panel

D. 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	EXTERIOR LIGHTING ANTI COLLISION WHITE

EFFECTIVITY
HAP ALL

33-44-13

Page 219
Feb 10/2007

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

HAP ALL; AIRPLANES WITH DUAL FORWARD LENS CONFIGURATION (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:

<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 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 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:

<u>Number</u>	<u>Name/Location</u>
527AB	Winglet Access Panel
627AB	Winglet Access Panel

SUBTASK 33-44-13-860-016

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

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	12	C00113	EXTERIOR LIGHTING POSITION RIGHT
A	13	C00114	EXTERIOR LIGHTING POSITION LEFT

EFFECTIVITY
HAP ALL

33-44-13

Page 220
Jun 10/2006

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

HAP ALL; AIRPLANES WITH DUAL FORWARD LENS CONFIGURATION (Continued)

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	13	C00115	EXTERIOR 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.

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

D633A101-HAP

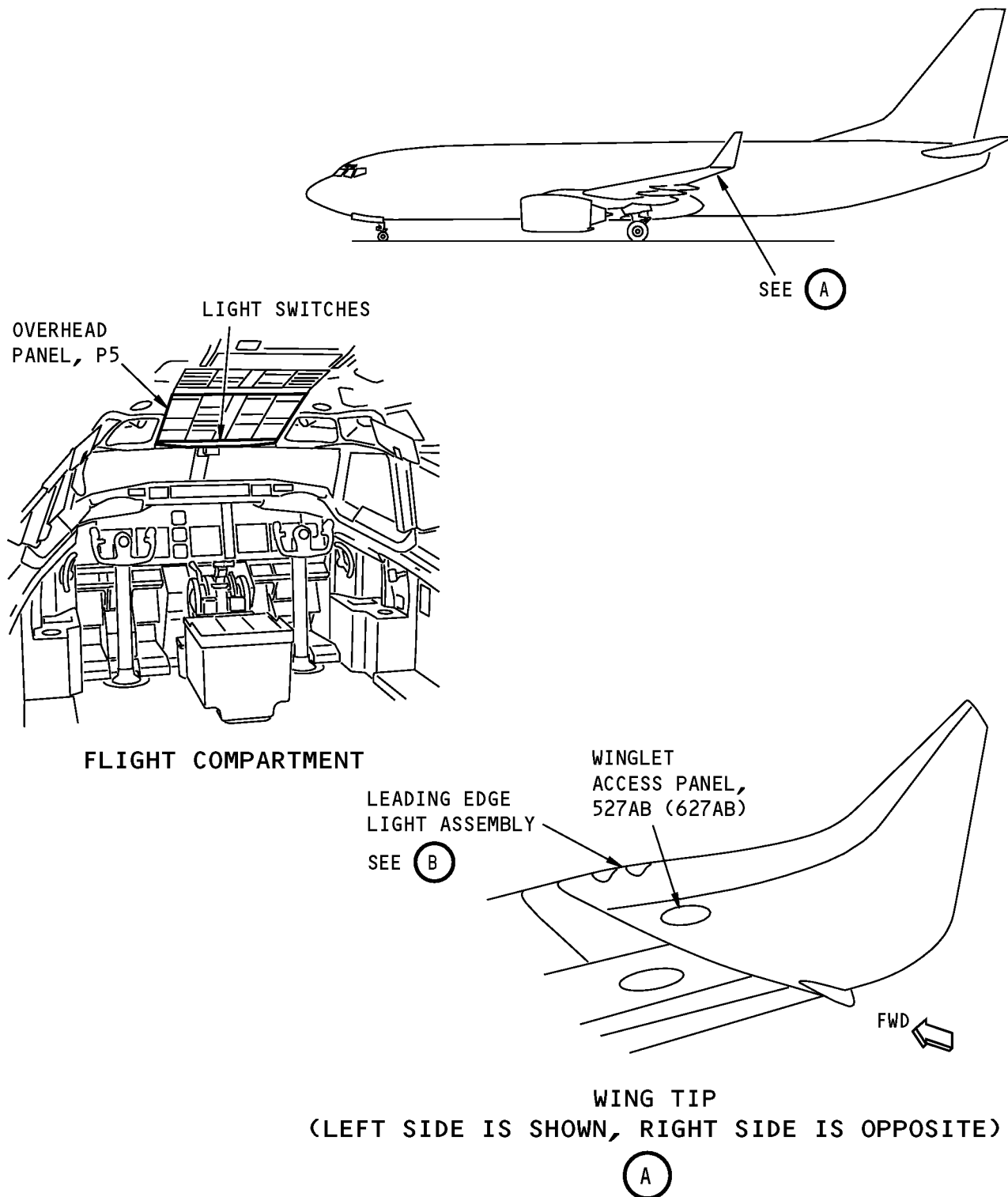
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33-44-13

Page 221
Jun 10/2006



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



Wing Anti-Collision Light Attenuator - Replacement
Figure 205 (Sheet 1 of 2)/33-44-13-990-805

EFFECTIVITY
HAP ALL; AIRPLANES WITH DUAL FORWARD LENS
CONFIGURATION

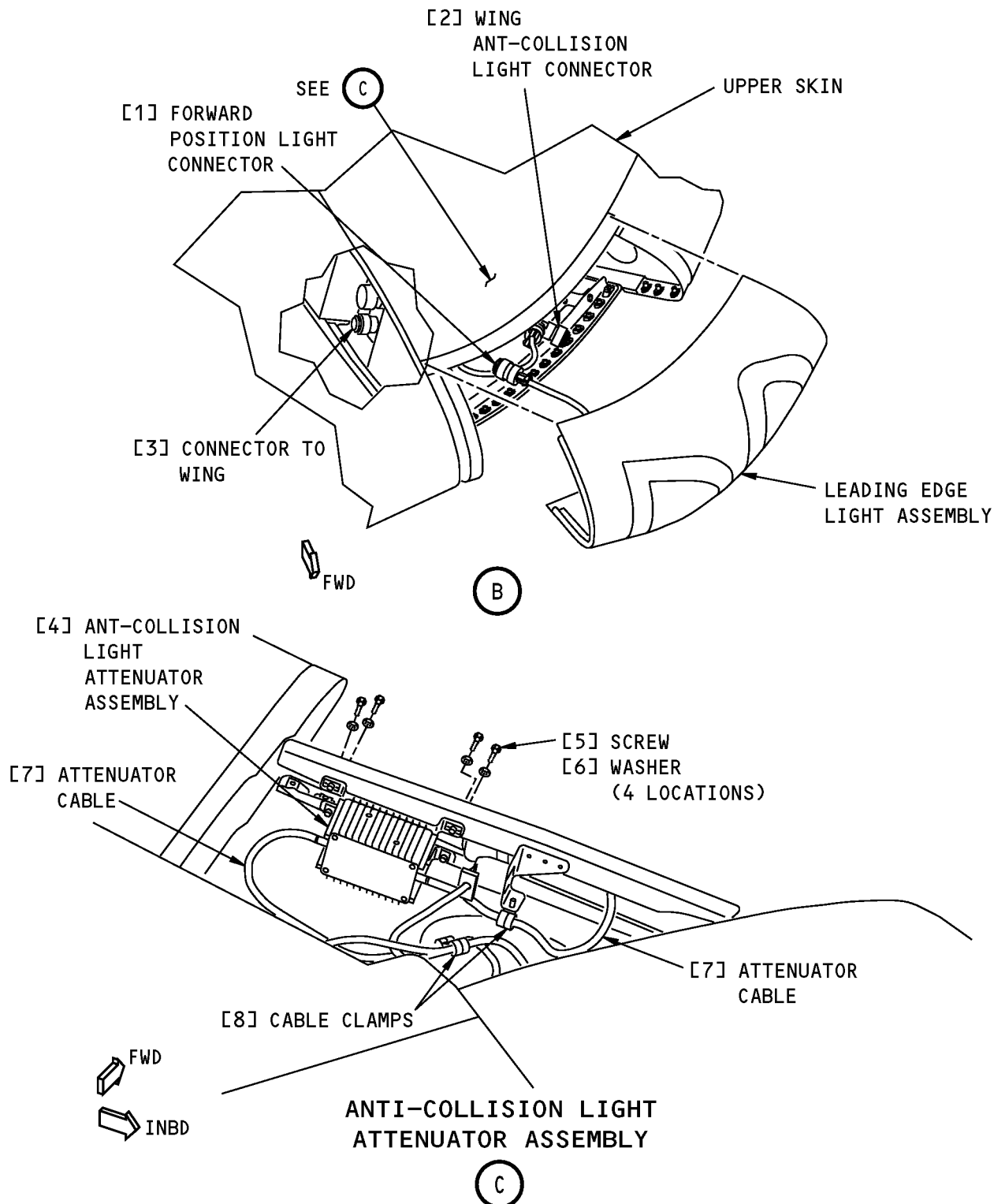
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33-44-13

Page 222
Jun 10/2006

AIRCRAFT MAINTENANCE MANUAL



Wing Anti-Collision Light Attenuator - Replacement
Figure 205 (Sheet 2 of 2)/33-44-13-990-805

EFFECTIVITY
HAP ALL; AIRPLANES WITH DUAL FORWARD LENS
CONFIGURATION

33-44-13

Page 223
Jun 10/2006

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TAXI LIGHT - MAINTENANCE PRACTICES

1. General

A. This procedure has these tasks:

- (1) Taxi Light - Lamp Replacement
- (2) Taxi Light Housing Assembly - Removal
- (3) Taxi Light Housing Assembly - Installation
- (4) Nose Landing Gear Taxi Light Lens - Temporary Repair

TASK 33-45-01-960-801

2. Taxi 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)
32-00-01-480-801	Landing Gear Downlock Pins Installation (P/B 201)

B. Location Zones

Zone	Area
713	Nose Landing Gear

C. 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).

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 [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].

EFFECTIVITY
HAP ALL

33-45-01

Page 201
Feb 15/2008

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (f) Put the new gasket [7] and gasket [28] into the retainer [2].

NOTE: Always install new gaskets during the lamp replacement. Gaskets can become hard when soaked in heat, and new gaskets will help prevent cracks in 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.

- (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.

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.

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

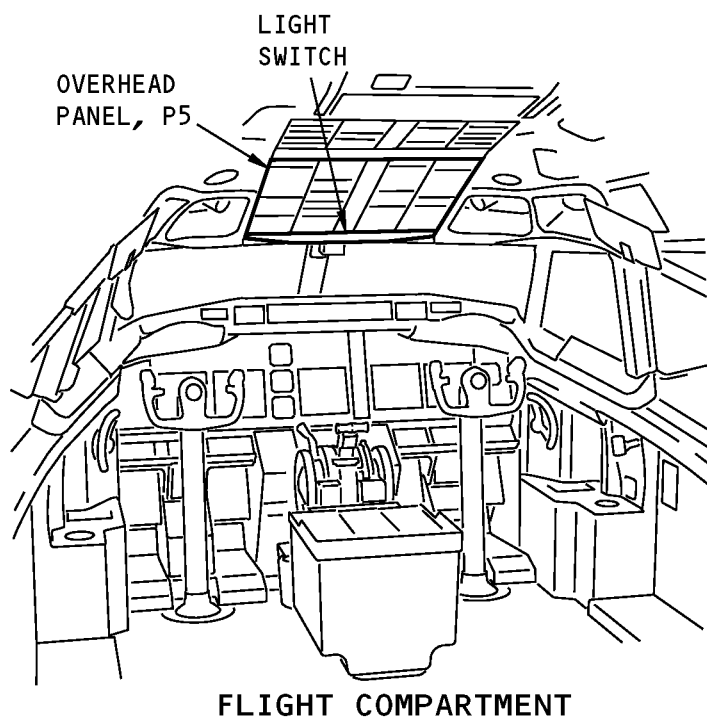
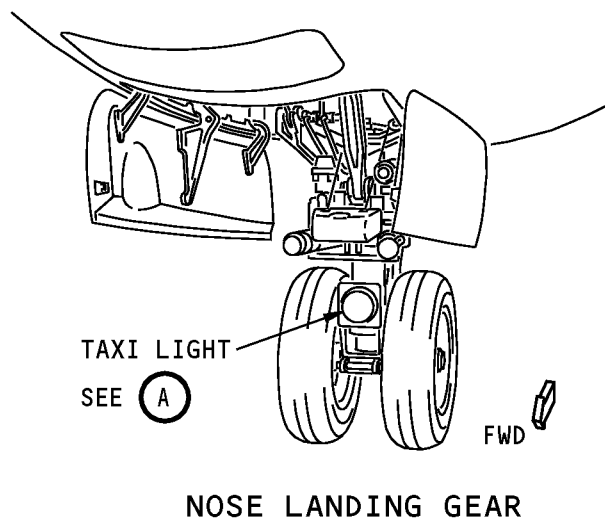
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33-45-01

Page 202
Feb 15/2009

AIRCRAFT MAINTENANCE MANUAL



Taxi Light - Lamp Replacement
Figure 201 (Sheet 1 of 2)/33-45-01-990-801

EFFECTIVITY
HAP ALL

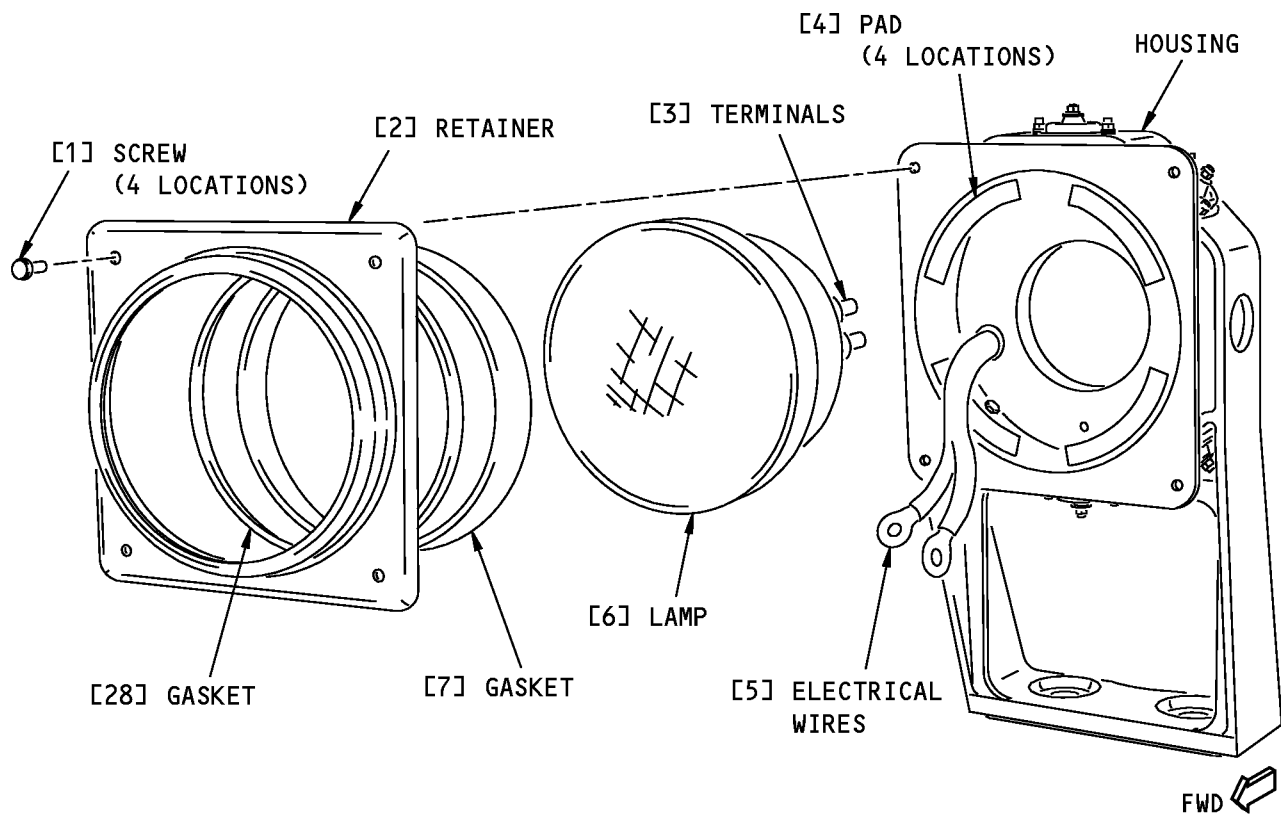
33-45-01

Page 203
Oct 10/2003

D633A101-HAP



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



TAXI LIGHT



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Taxi Light - Lamp Replacement
Figure 201 (Sheet 2 of 2)/33-45-01-990-801

EFFECTIVITY
HAP ALL

D633A101-HAP

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33-45-01

Page 204
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-45-01-000-801

3. Taxi Light Housing Assembly - Removal

Figure 202

A. References

Reference	Title
32-00-01-480-801	Landing Gear Downlock Pins Installation (P/B 201)

B. Location Zones

Zone	Area
713	Nose Landing Gear

C. 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].

EFFECTIVITY
HAP ALL

D633A101-HAP

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33-45-01

Page 205
Feb 15/2008



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (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], nuts [20] and cotter pins [21] 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

EFFECTIVITY
HAP ALL

D633A101-HAP

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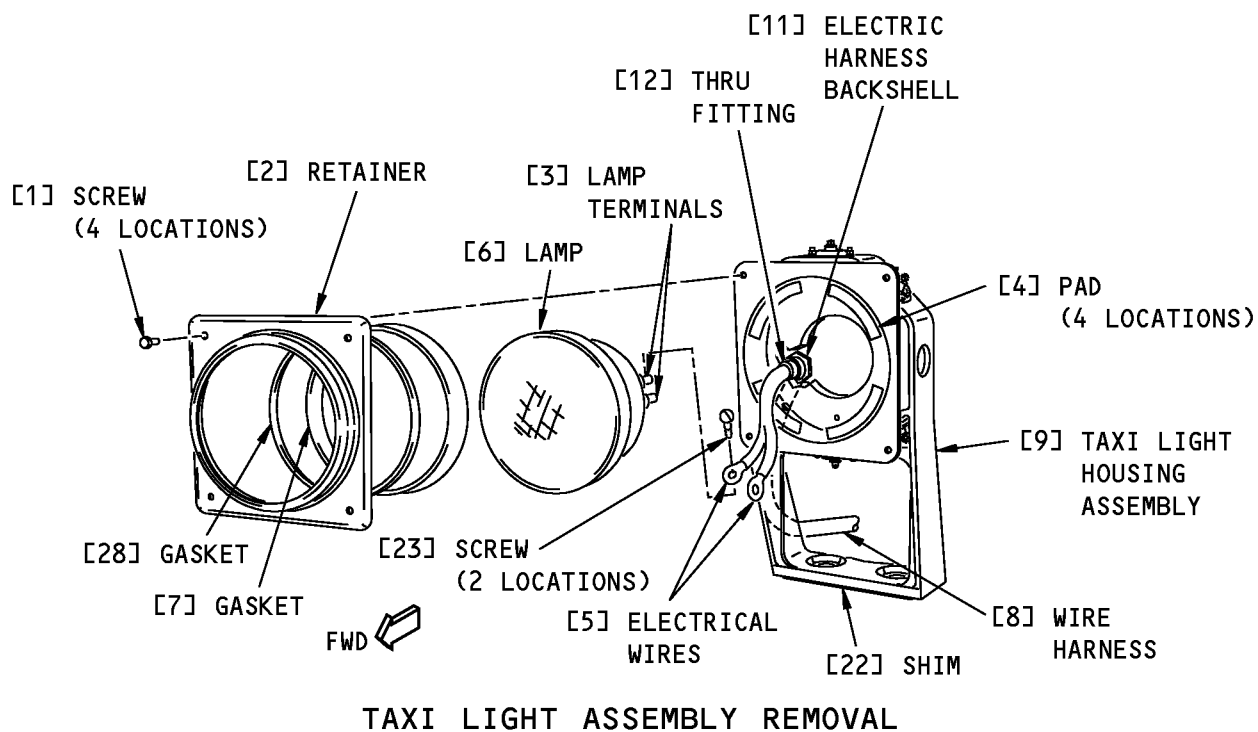
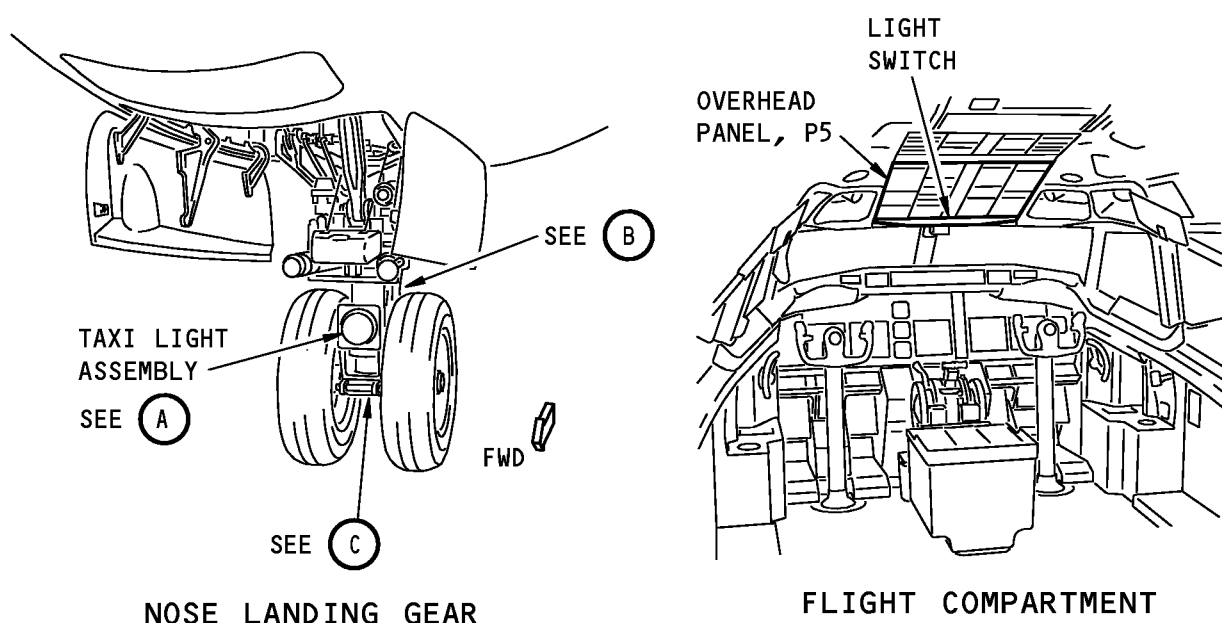
33-45-01

Page 206
Jun 10/2005



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL



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Taxi Light Housing Assembly - Installation
Figure 202 (Sheet 1 of 2)/33-45-01-990-802

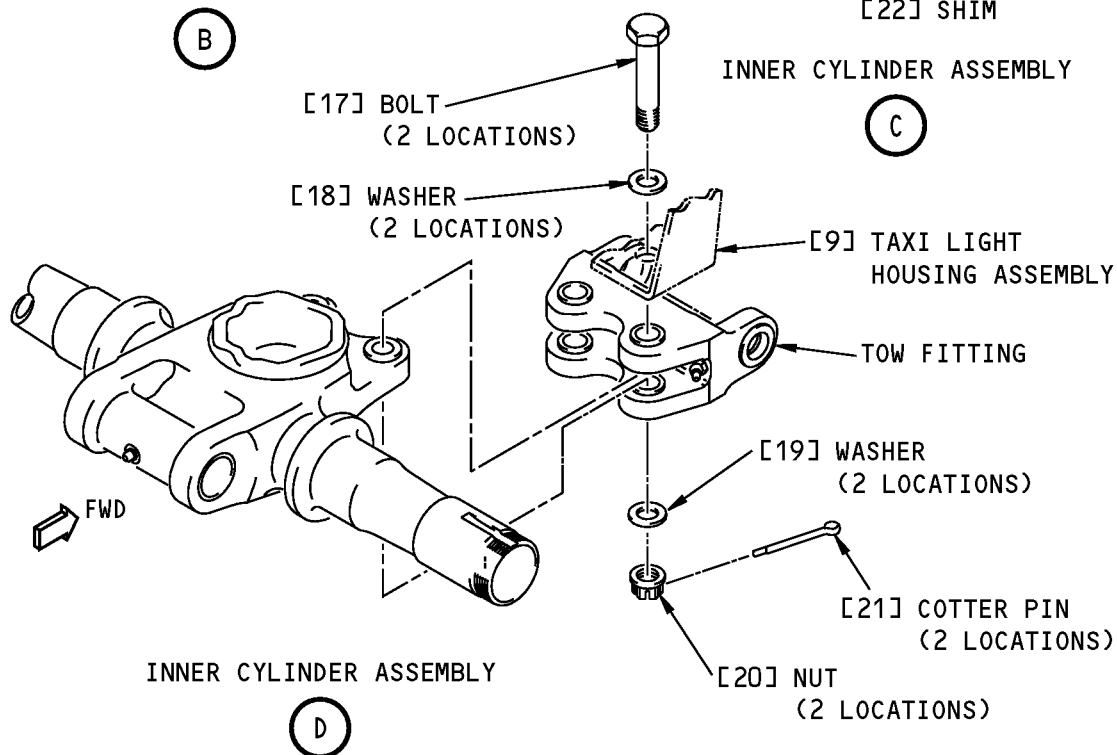
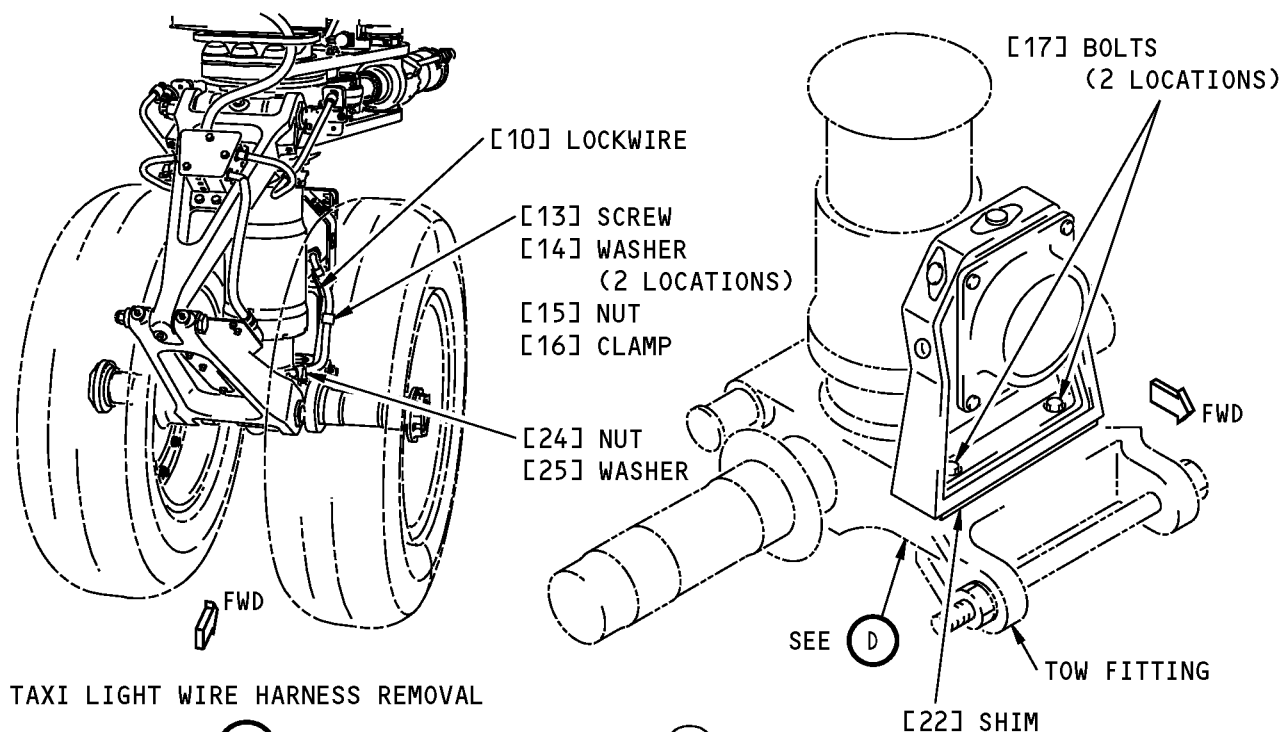
EFFECTIVITY
HAP ALL

33-45-01

Page 207
Feb 15/2009

D633A101-HAP

BOEING PROPRIETARY - Copyright © Unpublished Work - See title page for details



Taxi Light Housing Assembly - Installation
Figure 202 (Sheet 2 of 2)/33-45-01-990-802

EFFECTIVITY
HAP ALL

33-45-01



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-45-01-400-801

4. Taxi Light Housing Assembly - Installation

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. Prepare for installation

SUBTASK 33-45-01-420-001

(1) Do the steps that follow to install the taxi light housing assembly:

- Align the taxi light housing assembly [9] and shim [22] with inner cylinder and tow fitting.
- Install the bolts [17], washer [18], washer [19] and nuts [20].
- Torque the nuts [20] to 250 in-lb (28 N·m)-300 in-lb (34 N·m).
- Install cotter pins [21] on bolts [17].
- Install the clamp to inner cylinder with nut [24] and washer [25].
- Install the wire harness [8] with clamp [16], screw [13], washers [14] and nut [15] to the light housing assembly [9].
- Pull the harness wires [5] through the light housing assembly [9].
- Attach the harness backshell [11] to the housing through fitting [12].
- 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:

- Connect the electrical wires [5] to terminals [3] behind the lamp [6] with screws [23].
- Put the new gasket [7] and gasket [28] into the retainer [2].

NOTE: Always install new gaskets during the lamp replacement. Gaskets can become hard when soaked in heat, and new gaskets will help prevent cracks in 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.

- Align the retainer [2] and lamp [6] against the light housing assembly [9].
- 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

Row	Col	Number	Name
D	14	C00123	EXT LIGHTING NOSE GEAR TAXI

- 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:

- At the overhead panel P5, set the switch for the taxi light to the on mode.

EFFECTIVITY
HAP ALL

33-45-01

Page 209
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- 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

5. 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
SSM 33-45-11	System Schematics Manual
WDM 33-45-11	Wiring Diagram Manual

C. Consumable Materials

Reference	Description	Specification
G50228	Tape - 3M Y436 Aluminum Foil Sound Damping Tape	

D. Location Zones

Zone	Area
713	Nose Landing Gear

E. Procedure

SUBTASK 33-45-01-350-001

- (1) Apply two layers of 3M Y436 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

Row	Col	Number	Name
HAP 031-054, 101-999			
D	12	C01518	EXT LIGHTING GENERAL LIGHT CONT
HAP ALL			
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 —————

EFFECTIVITY
HAP ALL

33-45-01

Page 210
Jun 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

RUNWAY TURNOFF LIGHTS - MAINTENANCE PRACTICES

1. General

A. This procedure has these tasks:

- (1) Runway Turnoff Light - Lamp Replacement
- (2) Runway Turnoff Light - Light Beam Adjustment

TASK 33-45-02-960-801

2. Runway Turnoff Light - Lamp Replacement

(Figure 201)

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)
27-81-00-040-801	Deactivate the Leading Edge Flaps and Slats (P/B 201)
27-81-00-440-801	Reactivate the Leading Edge Flaps and Slats (P/B 201)
SSM 33-45-11	System Schematics 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. Location Zones

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

D. Procedure

SUBTASK 33-45-02-860-001

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

SUBTASK 33-45-02-860-002

- (2) Do this task: Deactivate the Leading Edge Flaps and Slats, TASK 27-81-00-040-801.

SUBTASK 33-45-02-860-003

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
C	12	C00245	EXTERIOR LIGHTING RUNWAY TURNOFF RIGHT
C	13	C00244	EXTERIOR LIGHTING RUNWAY TURNOFF LEFT

SUBTASK 33-45-02-010-001

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

NOTE: The lanyard [2] stays connected.

EFFECTIVITY
HAP ALL

33-45-02

Page 201
Oct 15/2008

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 33-45-02-960-001

(5) 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].

(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.

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

NOTE: The sealant does not have to become tack-free prior to the completion of this procedure and dispatch of the airplane.

(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

(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>
C	12	C00245	EXTERIOR LIGHTING RUNWAY TURNOFF RIGHT
C	13	C00244	EXTERIOR LIGHTING RUNWAY TURNOFF LEFT

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) Do a visual check to make sure the light beam points in the correct direction (Figure 202).

EFFECTIVITY
HAP ALL

33-45-02

Page 202
Oct 15/2008

D633A101-HAP

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737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- a) 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:
 - 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).

SUBTASK 33-45-02-860-005

- (9) Do this task: Reactivate the Leading Edge Flaps and Slats, TASK 27-81-00-440-801.

SUBTASK 33-45-02-860-006

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

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

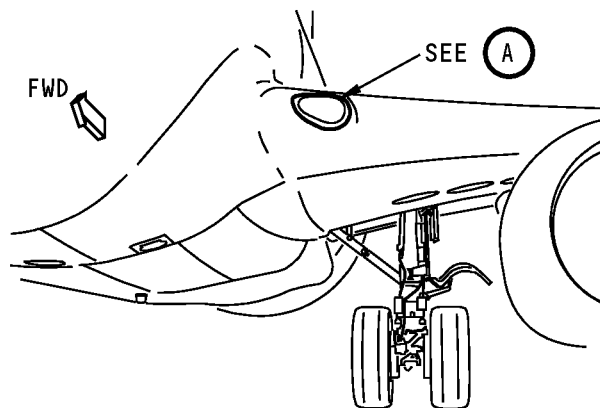
D633A101-HAP

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33-45-02

Page 203
Oct 15/2008

AIRCRAFT MAINTENANCE MANUAL



RUNWAY
TURNOFF LIGHT

SEE (B)

FWD

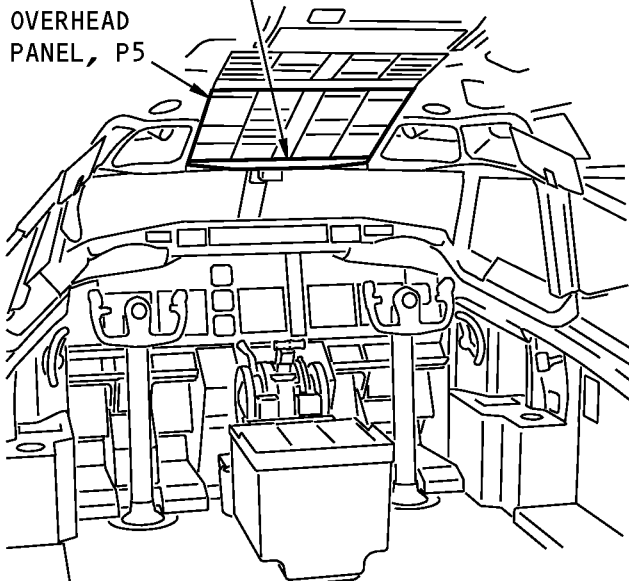
[1] STUD
(15 LOCATIONS)

[3] LENS
ASSEMBLY

[2] LANYARD

LIGHT
SWITCH

OVERHEAD
PANEL, P5



FLIGHT COMPARTMENT

STRAKELET
(LEFT SIDE IS SHOWN,
RIGHT SIDE IS EQUIVALENT)

(A)

Runway Turnoff Light - Lamp Replacement
Figure 201 (Sheet 1 of 2)/33-45-02-990-801

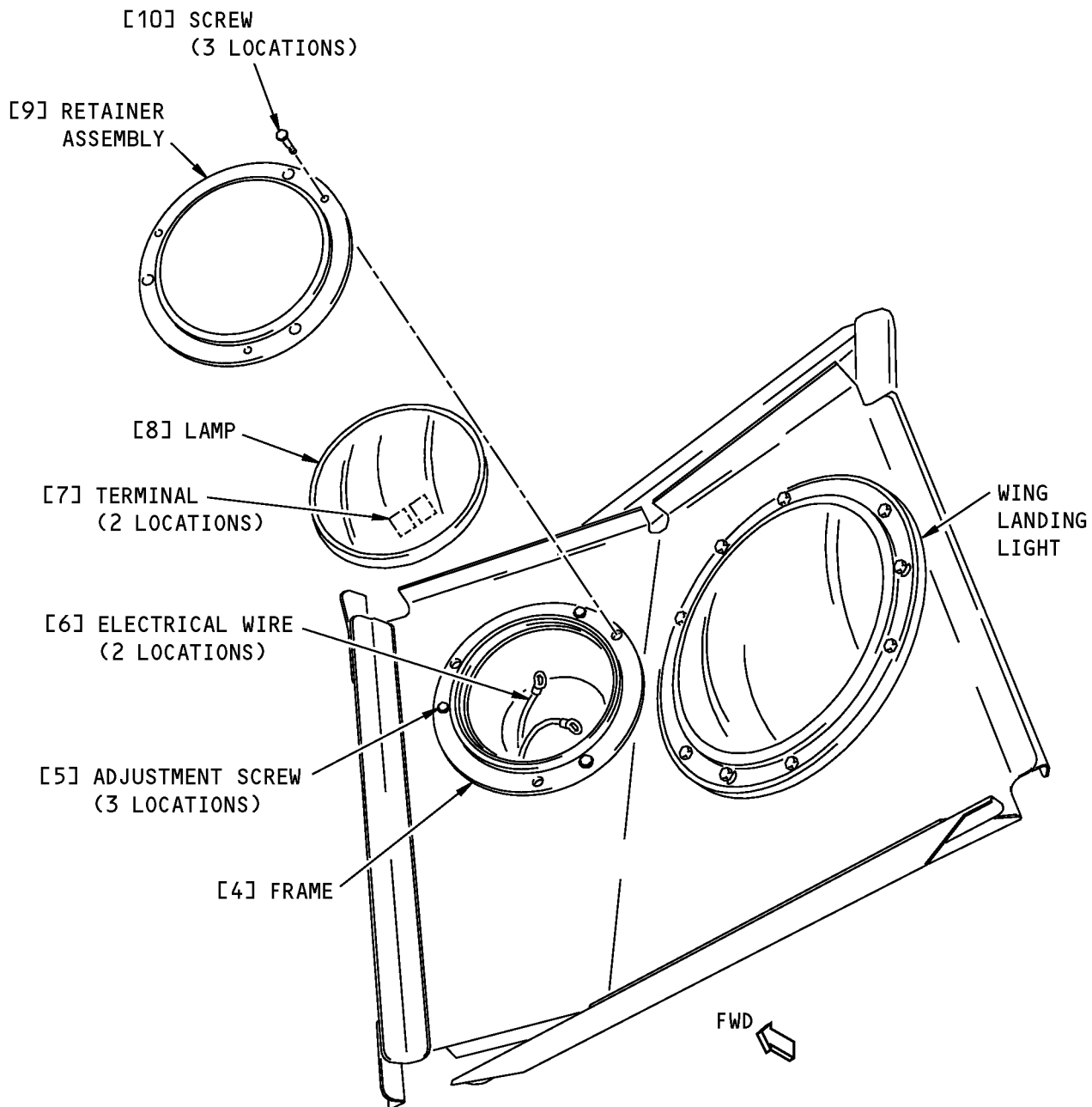
EFFECTIVITY
HAP ALL

33-45-02

Page 204
Oct 10/2003

D633A101-HAP

AIRCRAFT MAINTENANCE MANUAL



RUNWAY TURNOFF LIGHT
(LEFT SIDE IS SHOWN, RIGHT SIDE IS OPPOSITE)

B

Runway Turnoff Light - Lamp Replacement
Figure 201 (Sheet 2 of 2)/33-45-02-990-801

EFFECTIVITY
HAP ALL

D633A101-HAP

BOEING PROPRIETARY - Copyright © Unpublished Work - See title page for details

33-45-02

Page 205
Oct 10/2003



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-45-02-820-801

3. Runway Turnoff Light - Light Beam Adjustment

(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)
27-81-00-040-801	Deactivate the Leading Edge Flaps and Slats (P/B 201)
27-81-00-440-801	Reactivate the Leading Edge Flaps and Slats (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 202.

NOTE: A marker can be any item large enough to be seen from a distance.

SUBTASK 33-45-02-860-007

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

SUBTASK 33-45-02-860-008

- (4) Do this task: Deactivate the Leading Edge Flaps and Slats, TASK 27-81-00-040-801.

SUBTASK 33-45-02-010-002

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

NOTE: The lanyard [2] stays connected.

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.

EFFECTIVITY
HAP ALL

33-45-02

Page 206
Oct 10/2003

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- 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 33-45-02-860-011

- (10) Do this task: Reactivate the Leading Edge Flaps and Slats, TASK 27-81-00-440-801.

SUBTASK 33-45-02-860-012

- (11) 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
HAP ALL

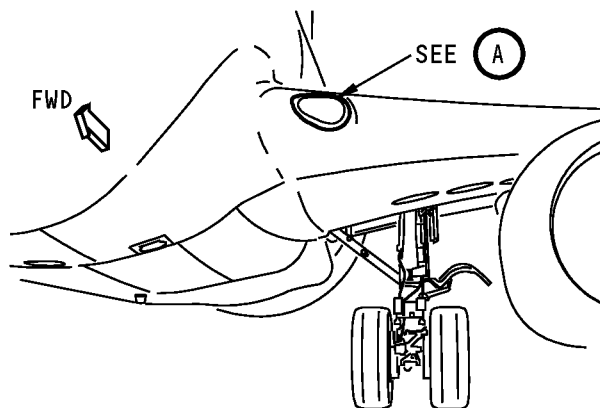
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33-45-02

Page 207
Oct 10/2003

AIRCRAFT MAINTENANCE MANUAL



RUNWAY
TURNOFF LIGHT

SEE (B)

FWD

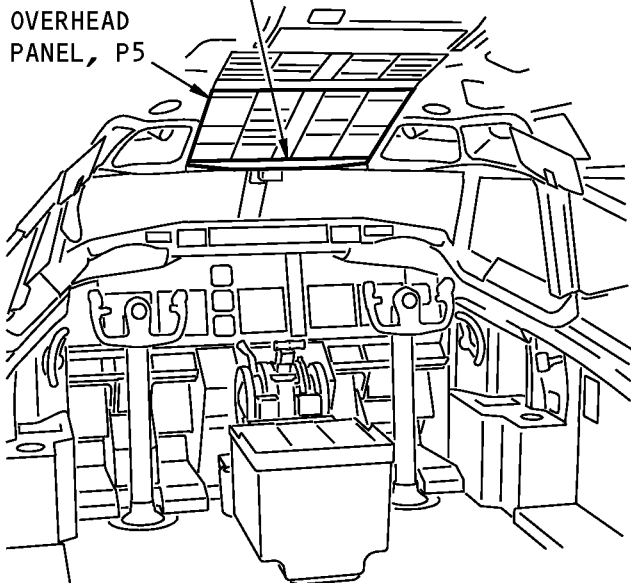
[1] STUD
(15 LOCATIONS)

[3] LENS
ASSEMBLY

[2] LANYARD

LIGHT
SWITCH

OVERHEAD
PANEL, P5



FLIGHT COMPARTMENT

STRAKELET
(LEFT SIDE IS SHOWN,
RIGHT SIDE IS EQUIVALENT)

(A)

Runway Turnoff Light - Light Beam Adjustment
Figure 202 (Sheet 1 of 2)/33-45-02-990-802

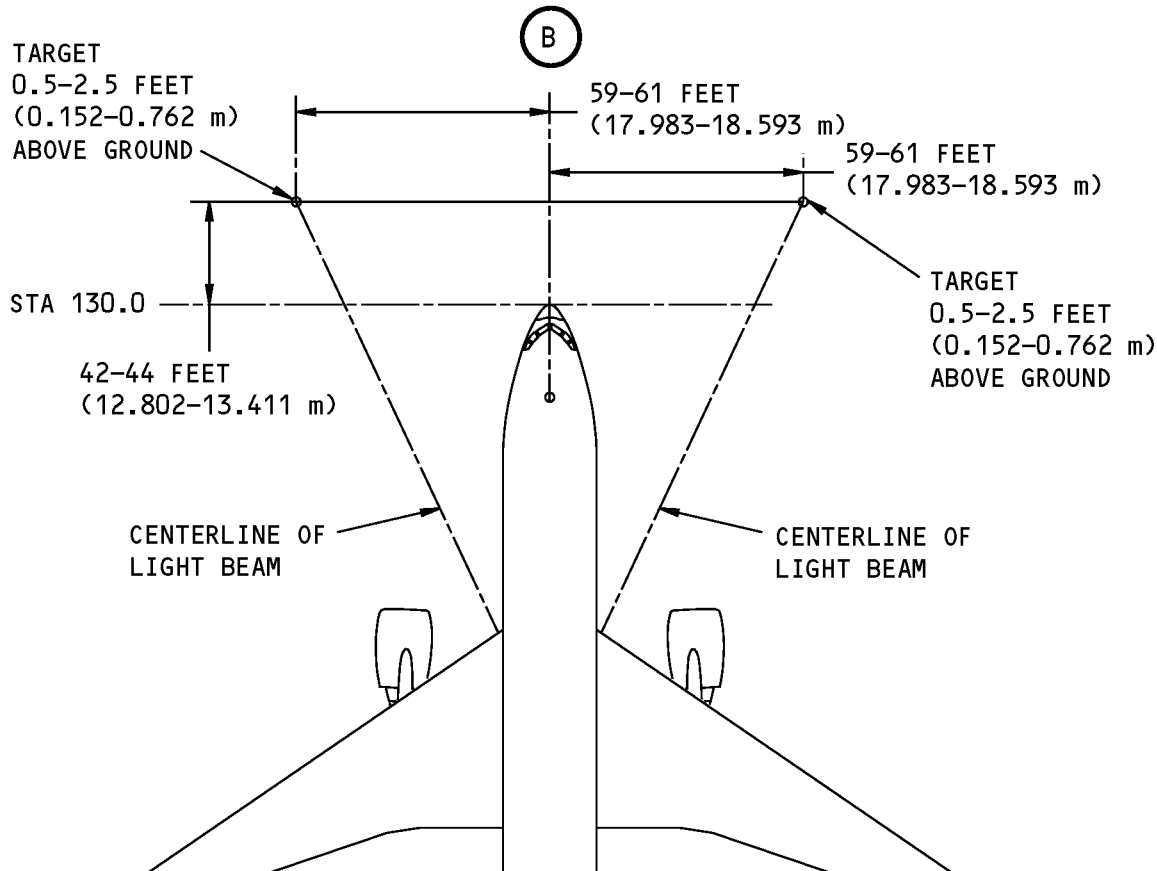
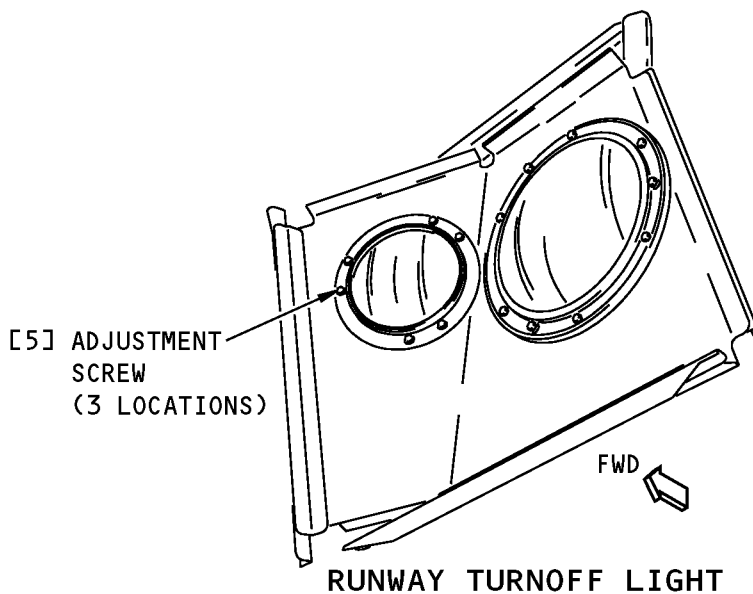
EFFECTIVITY
HAP ALL

D633A101-HAP

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33-45-02

Page 208
Oct 10/2003



Runway Turnoff Light - Light Beam Adjustment
Figure 202 (Sheet 2 of 2)/33-45-02-990-802

EFFECTIVITY
HAP ALL

33-45-02

Page 209
Jun 15/2009

D633A101-HAP



737-600/700/800/900

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	Set - Actuators/Deactuators, Proximity Sensor Test (Part #: 8-758-01, Supplier: 08748, A/P Effectivity: 737-ALL) (Part #: A27092-106, Supplier: 81205, A/P Effectivity: 737-600, -700, -700C, -700ER, -700QC, -800, -900, -900ER, -BBJ) (Opt Part #: A27092-84, Supplier: 81205, A/P Effectivity: 737-600, -700, -700C, -700ER, -700QC, -800, -900, -900ER, -BBJ)

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

EFFECTIVITY
HAP 031-054, 101-999; AIRPLANES WITH THE TAXI LIGHT
RELAY

D633A101-HAP

33-45-03

Page 201
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

2) S846 #1 NOSE GEAR LOCKED

- (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

**HAP 031-054, 101-999; AIRPLANES WITH THE TAXI LIGHT
RELAY**

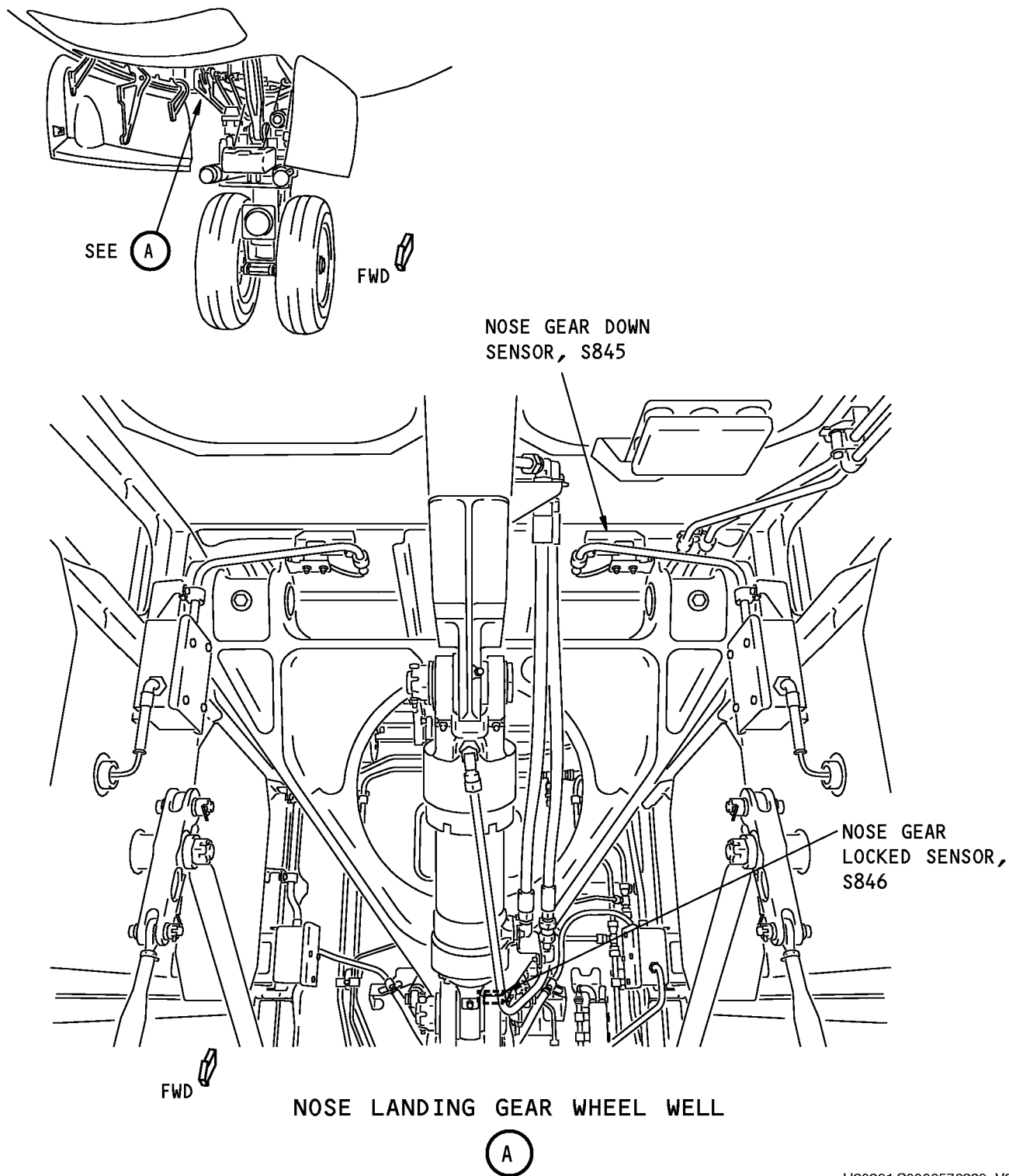
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33-45-03

Page 202
Feb 15/2009



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



H30391 S0006576329_V2

Taxi Light Relay - Operational Test
Figure 201/33-45-03-990-801

EFFECTIVITY
HAP 031-054, 101-999; AIRPLANES WITH THE TAXI LIGHT
RELAY

33-45-03

Page 203
Feb 15/2009

D633A101-HAP

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737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

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	EXT LIGHTING GENERAL LIGHT CONT
D	14	C00123	EXT LIGHTING NOSE GEAR TAXI

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	EXT LIGHTING GENERAL LIGHT CONT
D	14	C00123	EXT LIGHTING NOSE GEAR TAXI

EFFECTIVITY

HAP 031-054, 101-999; AIRPLANES WITH THE TAXI LIGHT RELAY

D633A101-HAP

33-45-03

Page 204
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

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** —————

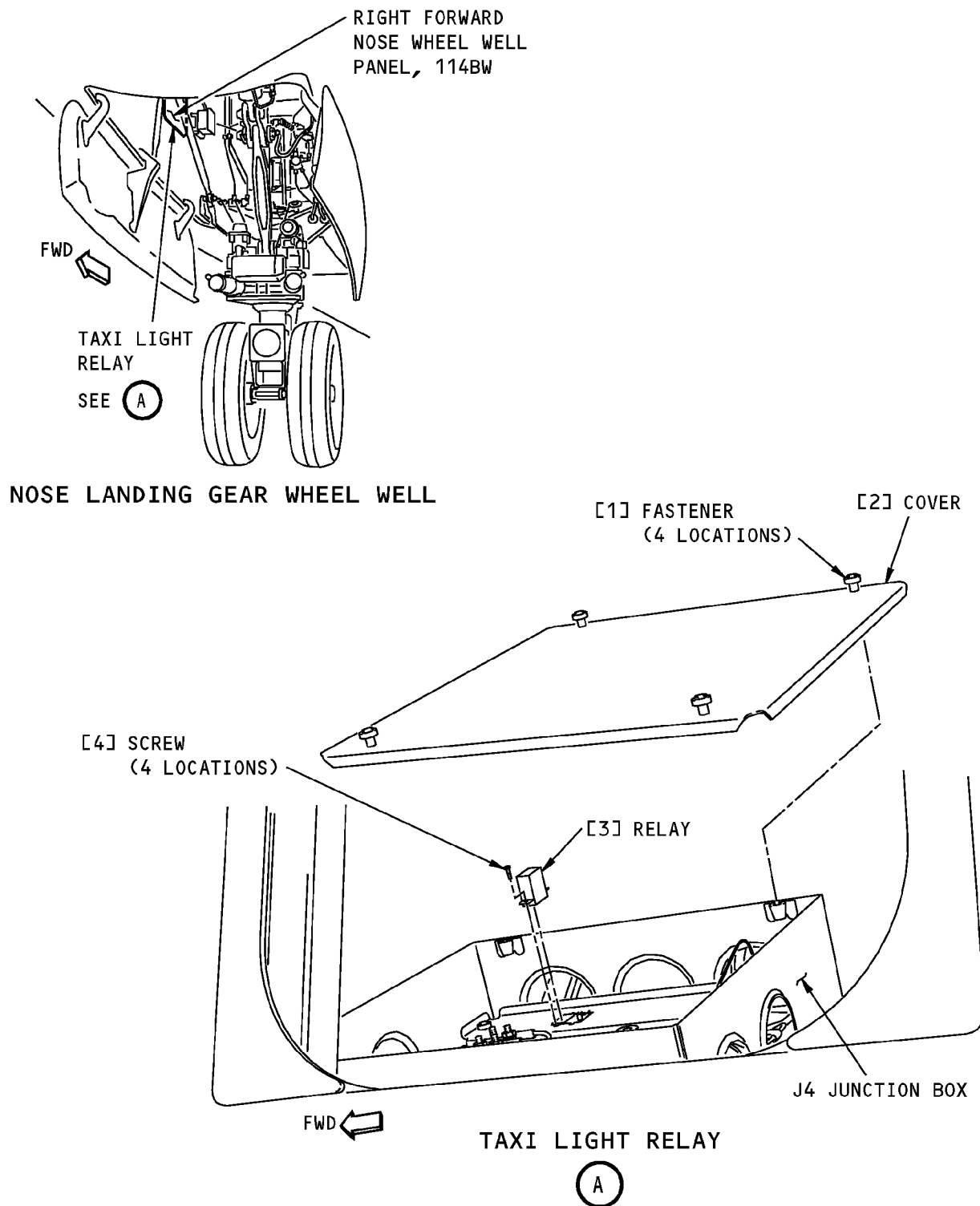
EFFECTIVITY
HAP 031-054, 101-999; AIRPLANES WITH THE TAXI LIGHT RELAY

D633A101-HAP

33-45-03

Page 205
Feb 15/2009

AIRCRAFT MAINTENANCE MANUAL



Taxi Light Relay - Replacement
Figure 202/33-45-03-990-802

EFFECTIVITY
HAP 031-054, 101-999; AIRPLANES WITH THE TAXI LIGHT RELAY

33-45-03

Page 206
 Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

LOGO LIGHTS - MAINTENANCE PRACTICES

1. General

A. This procedure has these tasks:

- (1) Logo Light - Lamp Replacement
- (2) Logo Light - Light Assembly Replacement

TASK 33-49-00-960-801

2. 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	HAP ALL

D. Location Zones

Zone	Area
332	Left Horizontal Stab - Front Spar to Rear Spar, Stab Sta 57.93 to Stab BL 249.81
342	Right Horizontal Stab - Front Spar to Rear Spar, Stab Sta 57.93 to Stab BL 249.81

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

SUBTASK 33-49-00-010-001

- (2) Open the applicable access doors below the logo light:

Number	Name/Location
333EB	Horizontal Stabilizer, Access Panel, Trailing Edge
343EB	Horizontal Stabilizer, Access Panel - T.E. Area

EFFECTIVITY
HAP ALL

33-49-00

Page 201
Jun 15/2008

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

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 fasteners [4] and remove the socket cover [3] on the bottom of the logo light housing.

NOTE: The lanyard stays connected.

- (b) Unlatch the upper spring [5] from the left hook to remove the socket.

- (c) Unlatch the lower spring [6] from the right hook.

- (d) Remove the lamp [1] from the back of the reflector assembly.

- (e) Install the new lamp [1] to the reflector assembly.

1) Make sure the lamp [1] is flush into the reflector assembly.

- (f) Latch the lower spring [6] to the right hook to hold the lamp [1] in its position.

NOTE: The "V" bend on the lower spring is bigger than the upper spring.

1) Make sure the "V" bend of the lower spring [6] is against the rim of the lamp.

- (g) Carefully install the socket [2] to the lamp pins with gentle pressure and install the upper spring [5] onto the hook of the reflector assembly.

NOTE: Do not use excessive force. The socket cover sits on the lamp pins and is held in place by the upper spring.

- (h) 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

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:

HAP 031-054, 101-999; HAP 001-013, 015-026, 028-030 POST SB 737-24-1147

- (a) Make sure the CAB/UTIL switch is in the on position.

HAP ALL

- (b) At the overhead panel, P5, set the switch for the logo lights to the on mode.

EFFECTIVITY
HAP ALL

33-49-00

Page 202
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- 1) Make sure the lamp comes on.
- 2) If it is necessary to adjust the direction of the light beam, turn the adjustment screws below the housing until the light beam is on the logo.

HAP 031-054, 101-999; HAP 001-013, 015-026, 028-030 POST SB 737-24-1147

- (c) Set the CAB/UTIL switch to the off position.

HAP ALL

- (d) Set the switch for the logo lights to the off mode.
 - 1) Make sure the lamp goes off.

SUBTASK 33-49-00-860-004

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

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

D633A101-HAP

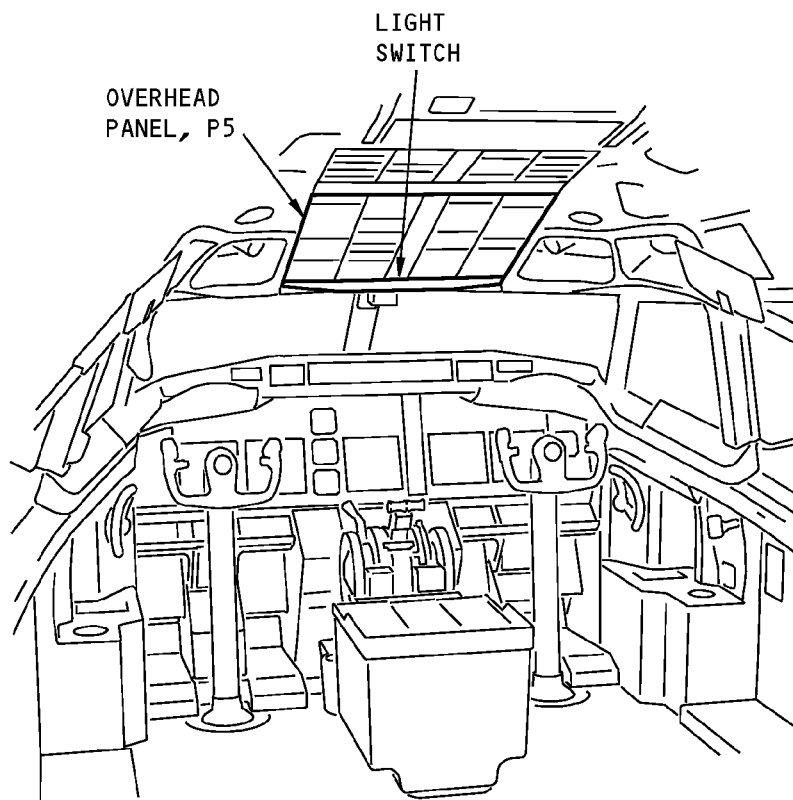
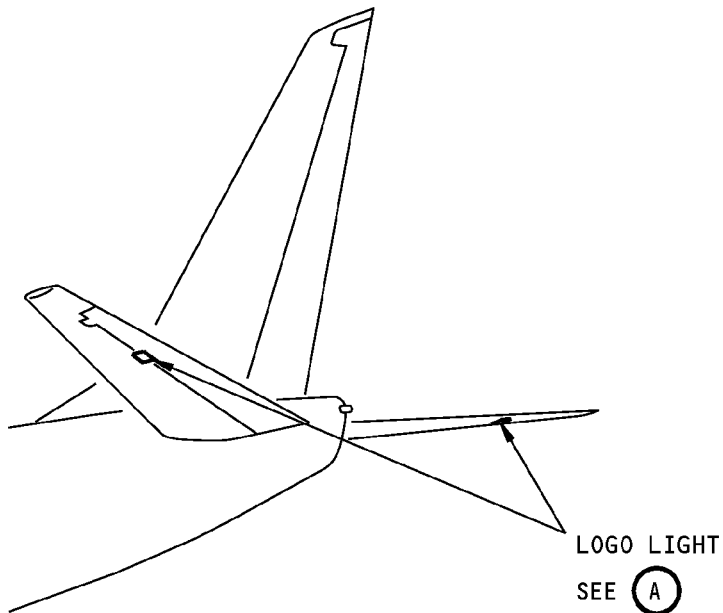
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33-49-00

Page 203
Feb 15/2009



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



FLIGHT COMPARTMENT

Logo Light - Lamp Replacement
Figure 201 (Sheet 1 of 2)/33-49-00-990-801

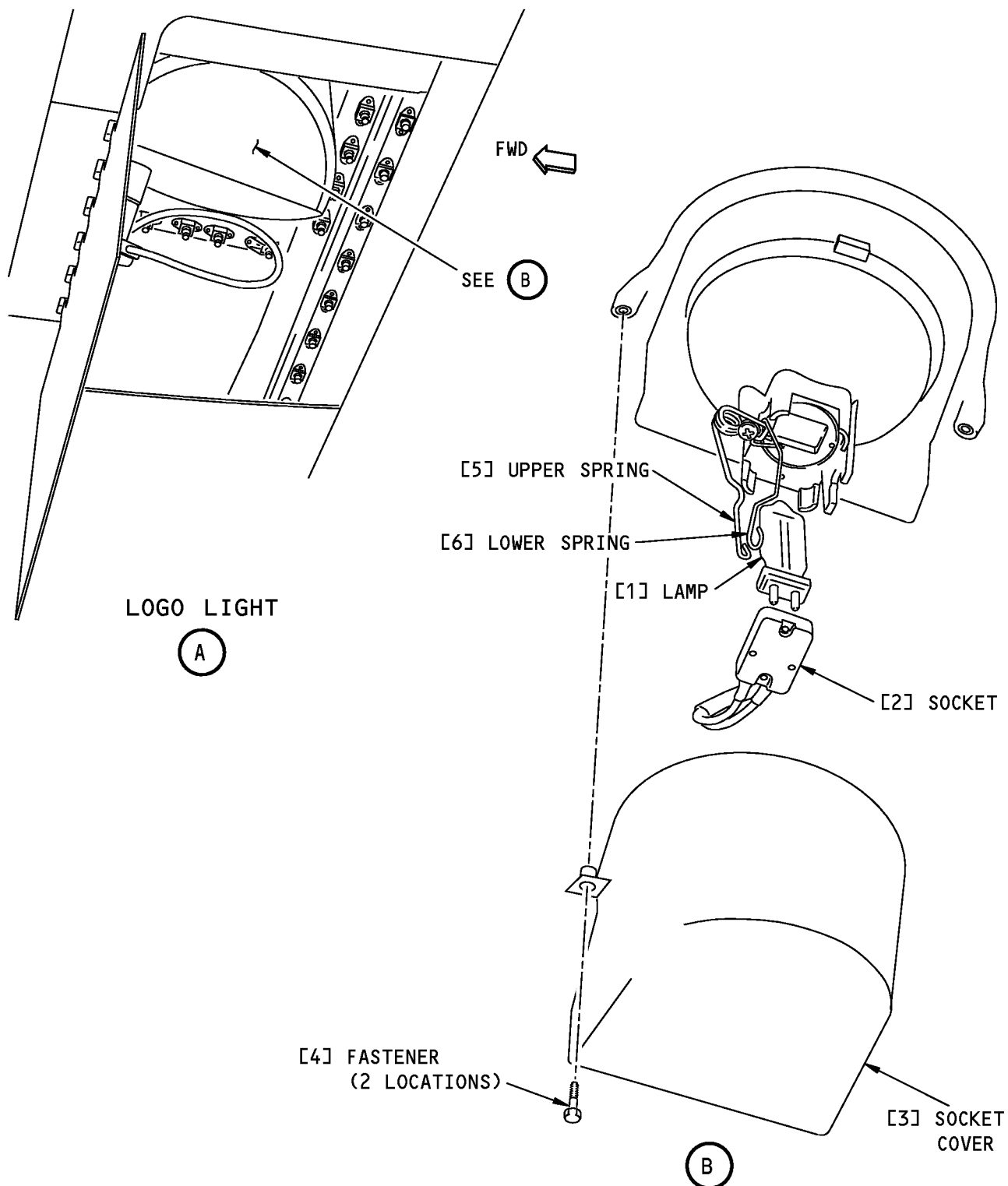
EFFECTIVITY
HAP ALL

33-49-00

Page 204
Feb 10/2005

D633A101-HAP

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Logo Light - Lamp Replacement
Figure 201 (Sheet 2 of 2)/33-49-00-990-801

EFFECTIVITY
HAP ALL

33-49-00

Page 205
Oct 10/2007

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-49-00-960-802

3. Logo Light - Light Assembly Replacement

(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	Meter - Bonding (Approved Explosion Proof & Intrinsically Safe) (Part #: C15292 (MODEL T477W), Supplier: 01014, A/P Effectivity: 737-ALL) (Part #: M1, Supplier: 3AD17, A/P Effectivity: 737-ALL) (Part #: M1B, Supplier: 3AD17, A/P Effectivity: 737-ALL)

D. Consumable Materials

Reference	Description	Specification
A02315	Sealant - Low Density, Synthetic Rubber. 2 Part	BMS5-142
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	HAP ALL
		33-49-00-01-015	HAP ALL

F. Location Zones

Zone	Area
332	Left Horizontal Stab - Front Spar to Rear Spar, Stab Sta 57.93 to Stab BL 249.81
342	Right Horizontal Stab - Front Spar to Rear Spar, Stab Sta 57.93 to Stab BL 249.81

G. Procedure

SUBTASK 33-49-00-860-005

- (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

EFFECTIVITY
HAP ALL

33-49-00

Page 206
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SUBTASK 33-49-00-960-002

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

- (a) Remove the bolts [21] on the top of the light assembly.
- (b) Lift up the light assembly [22].
- (c) Disconnect the electrical connector [23].
- (d) Replace the light assembly [22].
 - 1) Make sure a lamp is installed in the new light assembly.

NOTE: Do not touch the new lamp with your hands. Use lint-free gloves, G01306.

- (e) Connect the electrical connector [23].
- (f) With the electrical bonding meter, COM-1550, make sure the resistance between the light assembly and the fuselage measures no more than 0.0025 ohms.
- (g) With sealant, A02315, apply a fillet seal between the specified points on the light assembly and the airplane structure.
- (h) Put the light assembly [22] in its position.
- (i) Install the bolts [21] with the corrosion-preventative compound, C00528.

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:

HAP 031-054, 101-999; HAP 001-013, 015-026, 028-030 POST SB 737-24-1147

- (a) Set the CAB/UTIL switch to the on position.

HAP ALL

- (b) At the overhead panel, P5, set the switch for the logo lights to the on mode.
 - 1) Make sure the light comes on.
 - 2) If it is necessary to adjust the direction of the light beam, do these steps:
 - a) Open the access panel below the logo light.
 - b) Turn the adjustment screws below the housing until the light beam is on the logo.
 - c) Close the access panel.

HAP 031-054, 101-999; HAP 001-013, 015-026, 028-030 POST SB 737-24-1147

- (c) Set the CAB/UTIL switch to the off position.

HAP ALL

- (d) Set the logo lights switch to the off mode.
 - 1) Make sure the light goes off.

EFFECTIVITY
HAP ALL

33-49-00

Page 207
Feb 15/2009

D633A101-HAP



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

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.

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

D633A101-HAP

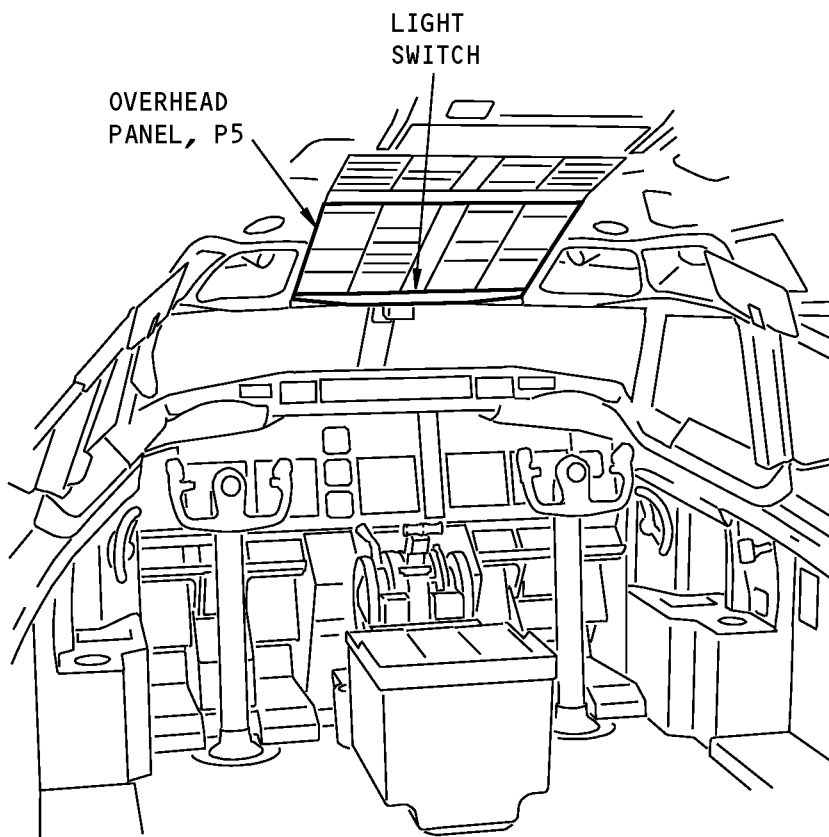
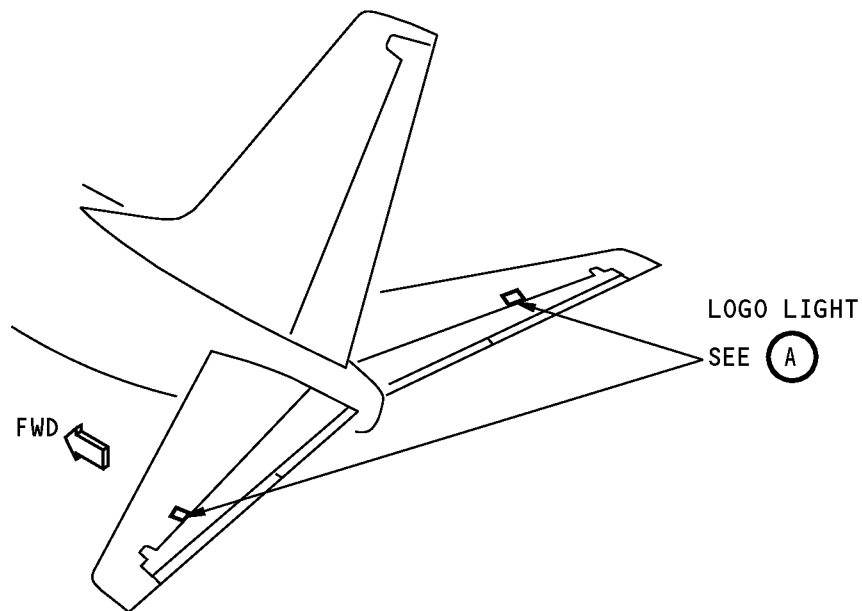
33-49-00

Page 208
Feb 10/2005



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL



FLIGHT COMPARTMENT

Logo Light - Light Assembly Replacement
Figure 202 (Sheet 1 of 2)/33-49-00-990-802

EFFECTIVITY
HAP ALL

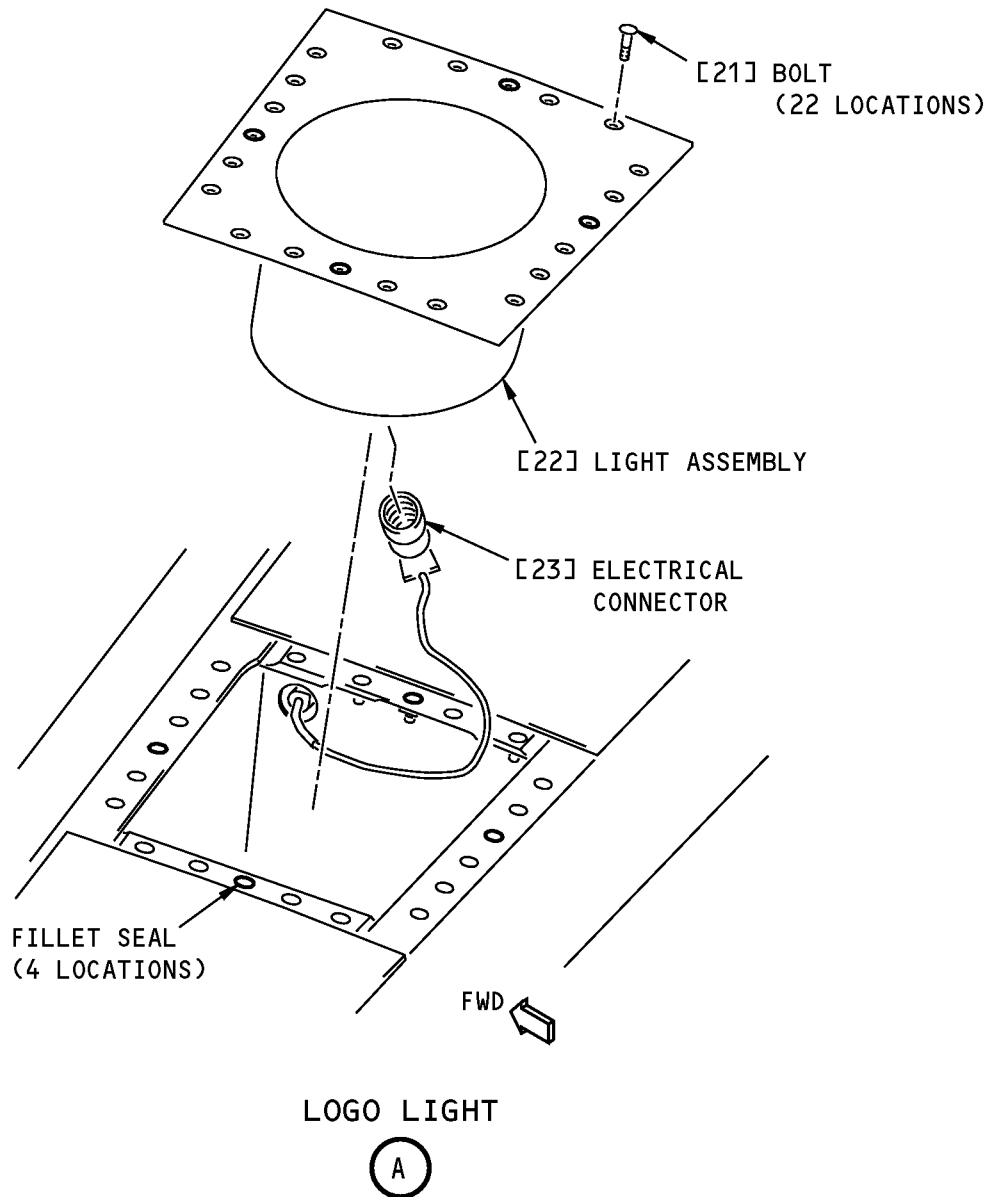
33-49-00

Page 209
Feb 10/2005

D633A101-HAP



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



Logo Light - Light Assembly Replacement
Figure 202 (Sheet 2 of 2)/33-49-00-990-802

EFFECTIVITY
HAP ALL

D633A101-HAP

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33-49-00

Page 210
Feb 10/2005



737-600/700/800/900

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

- A. General
 - (1) This procedure is a scheduled maintenance task.
 - (2) This test makes sure the emergency lights come on.
- B. References

Reference	Title
SSM 33-51-11	System Schematics Manual
SSM 33-51-12	System Schematics Manual
SSM 33-51-13	System Schematics Manual
SSM 33-51-14	System Schematics Manual
SSM 33-51-21	System Schematics 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 (SSM 33-51-11) (SSM 33-51-12) (SSM 33-51-13) (SSM 33-51-14) (SSM 33-51-21):

- (a) At the overhead panel, P5, or the 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** —————

EFFECTIVITY
HAP ALL

33-51-00

Page 501
Feb 15/2009

D633A101-HAP



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

TASK 33-51-00-720-801

3. Emergency Lights - Operational Check

A. General

- (1) This procedure is a scheduled maintenance task.
- (2) 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)
SSM 33-51-11	System Schematics Manual
SSM 33-51-12	System Schematics Manual
SSM 33-51-13	System Schematics Manual
SSM 33-51-14	System Schematics Manual
SSM 33-51-21	System Schematics 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 (SSM 33-51-11) (SSM 33-51-12) (SSM 33-51-13) (SSM 33-51-14).
 - (a) At the overhead panel, P5, set the pilots emergency light switch to the on mode.
 - 1) Make sure the emergency dome light comes on.
 - 2) 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 NOT ARMED indication shows on the P5 panel.
 - 3) 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.

EFFECTIVITY
HAP ALL

33-51-00

Page 502
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (d) 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	11	C00250	PASSENGER CABIN LIGHTING EMER CHGR FWD

- 1) Make sure the emergency dome light comes on.

- (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	PASSENGER CABIN LIGHTING EMER CHGR FWD

- 1) Make sure the emergency dome light goes off.

- (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 (SSM 33-51-11) (SSM 33-51-12) (SSM 33-51-13) (SSM 33-51-14) (SSM 33-51-21).

- (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.

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

- 1) Make sure the lights in the passenger compartment go off.

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** —————

EFFECTIVITY
HAP ALL

33-51-00

Page 503
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

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. References

Reference	Title
SSM 33-51-12	System Schematics Manual
SSM 33-51-13	System Schematics Manual
SSM 33-51-14	System Schematics Manual
SSM 33-51-21	System Schematics Manual

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. 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 (SSM 33-51-12) (SSM 33-51-13) (SSM 33-51-14) (SSM 33-51-21):

- (a) Remove the lens, [1], [8], or [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 there is a release hole, push in at the release hole with a rod, then pull off the lens, [8] or [10].
 - 3) When a handle light lamp [5] needs to be replaced in an overwing exit sign, loosen the screws [3] and washers [4], then remove the cover [7].

- (b) Replace the lamp, [2], [5], [6], or [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.

EFFECTIVITY
HAP ALL

33-51-01

Page 201
Feb 10/2004

D633A101-HAP



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

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], [8], or [10].

_____ **END OF TASK** _____

EFFECTIVITY
HAP ALL

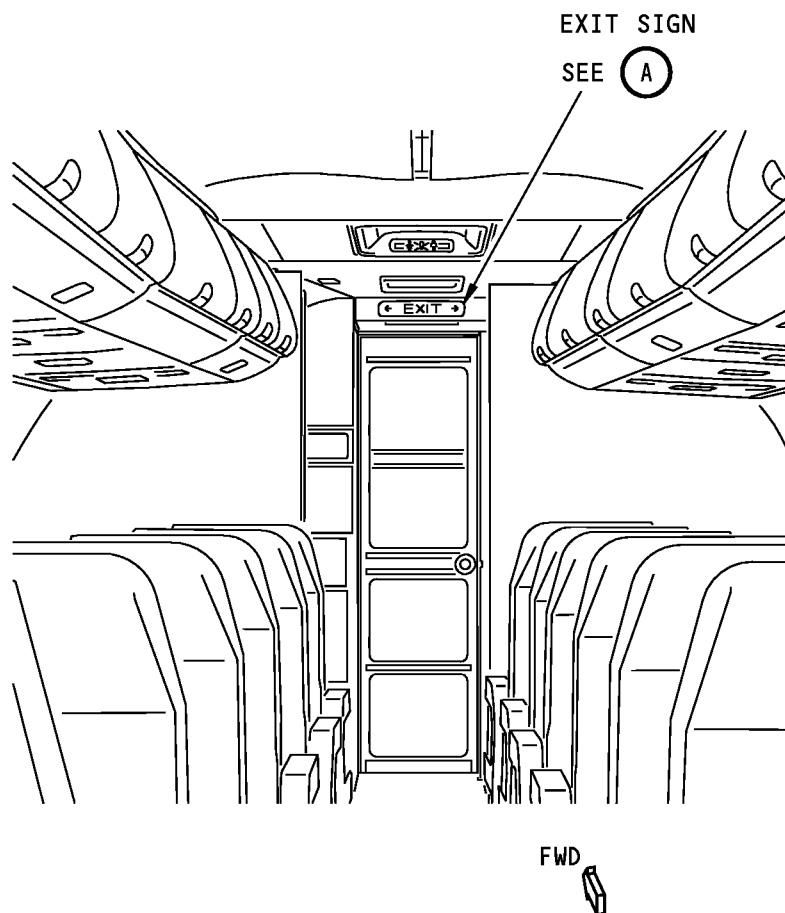
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Page 202
Oct 10/2003



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



PASSENGER COMPARTMENT
(EXAMPLE)

F60481 S0006576369_V3

Exit Sign - Lamp Replacement
Figure 201 (Sheet 1 of 6)/33-51-01-990-801

EFFECTIVITY
HAP ALL

D633A101-HAP

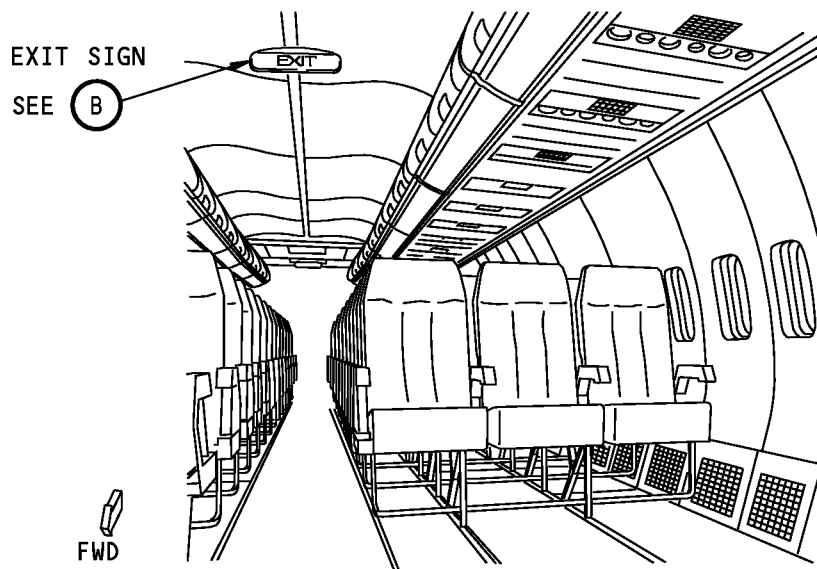
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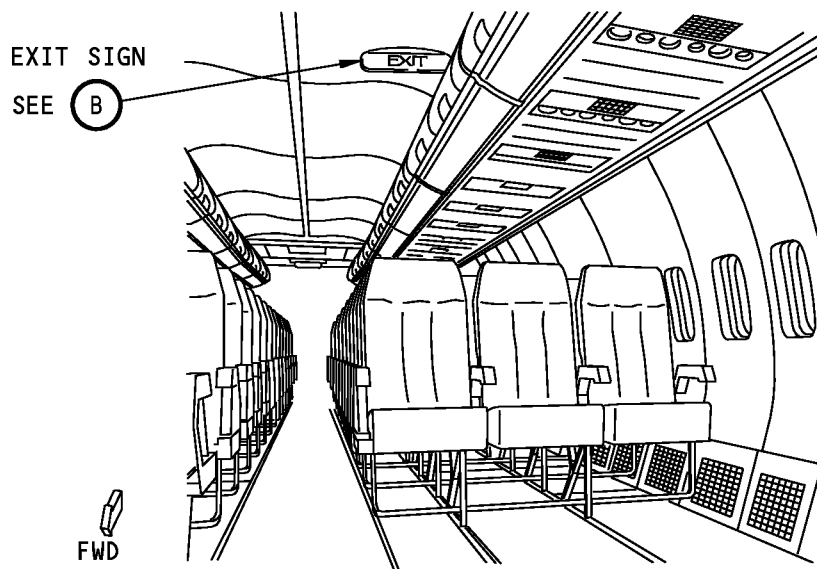
Page 203
Feb 15/2009



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



PASSENGER COMPARTMENT
(EXAMPLE)



PASSENGER COMPARTMENT
(EXAMPLE)

1739014 S0000312054_V1

Exit Sign - Lamp Replacement
Figure 201 (Sheet 2 of 6)/33-51-01-990-801

EFFECTIVITY
HAP ALL

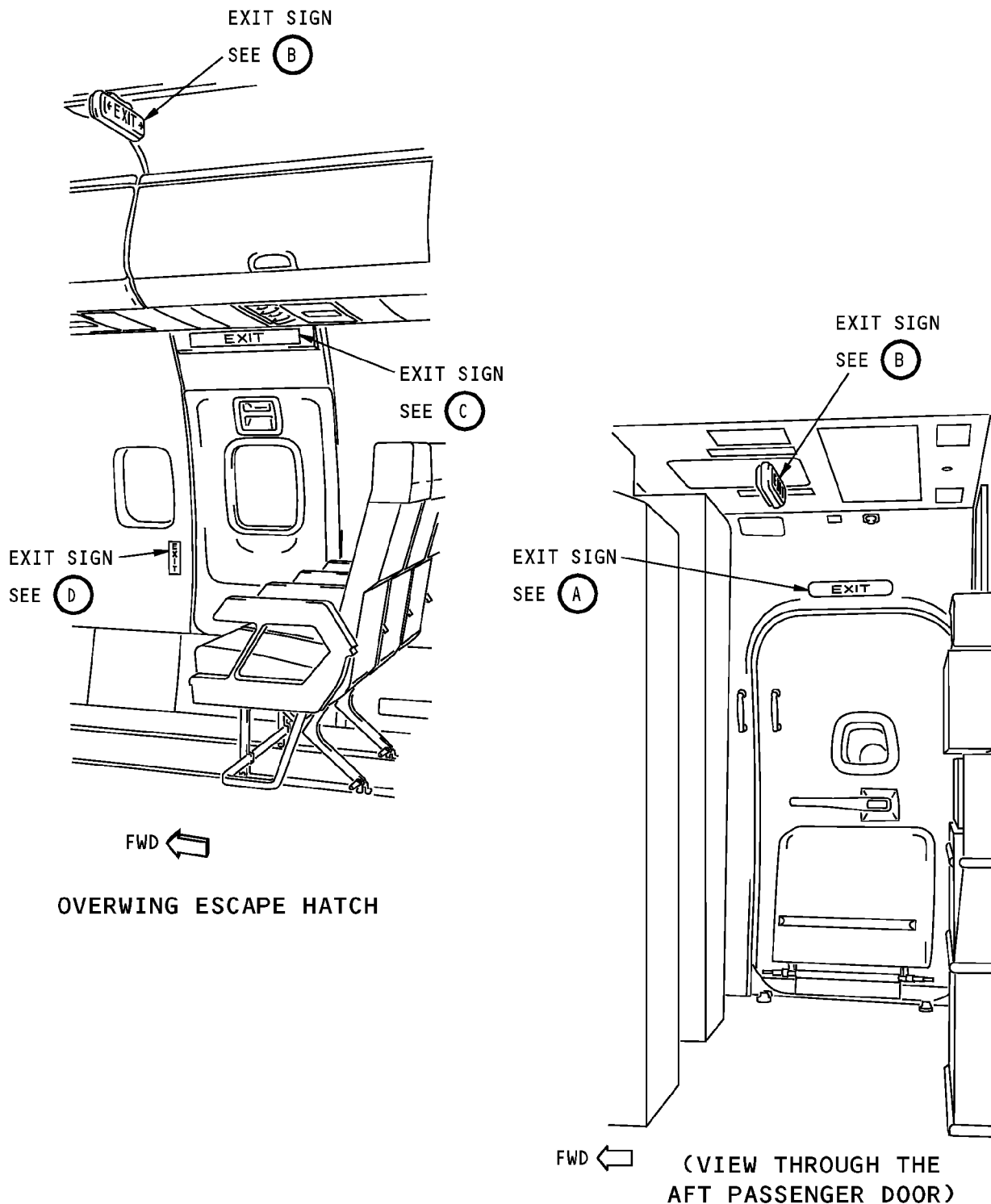
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33-51-01

Page 204
Feb 15/2009

AIRCRAFT MAINTENANCE MANUAL



Exit Sign - Lamp Replacement
Figure 201 (Sheet 3 of 6)/33-51-01-990-801

EFFECTIVITY
HAP ALL

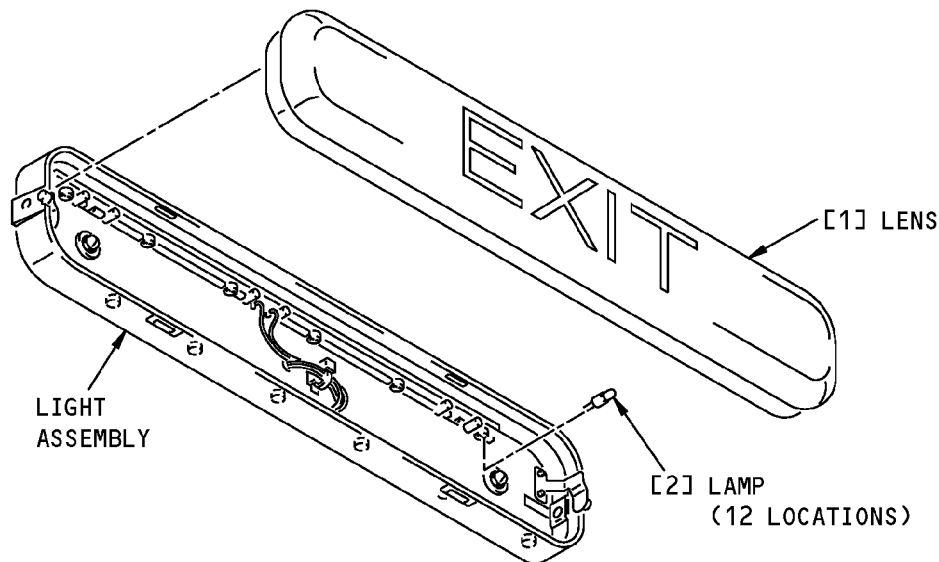
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Page 205
Feb 15/2009

D633A101-HAP

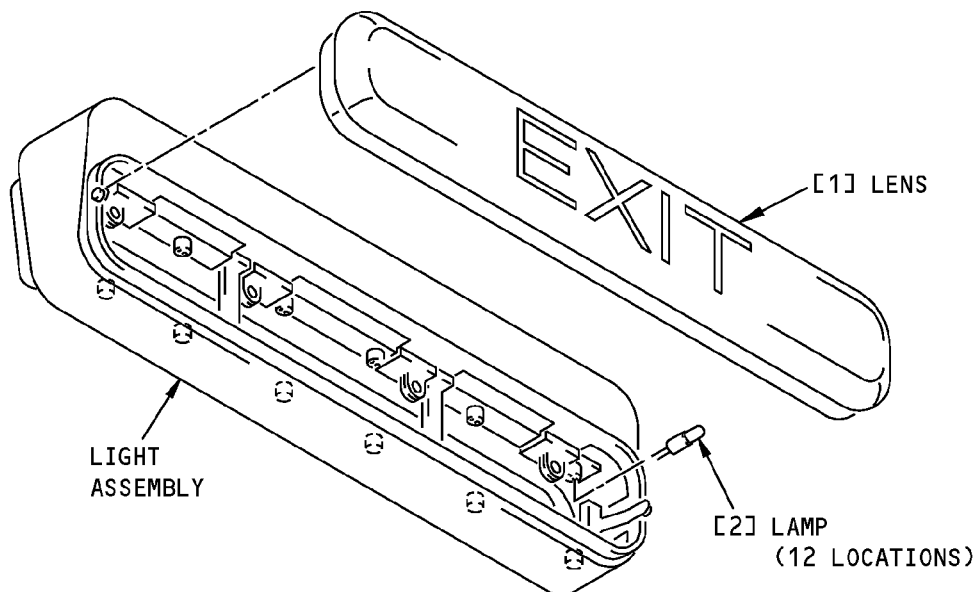


737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL



EXIT SIGN
(EXAMPLE)

A



EXIT SIGN
(EXAMPLE)

B

Exit Sign - Lamp Replacement
Figure 201 (Sheet 4 of 6)/33-51-01-990-801

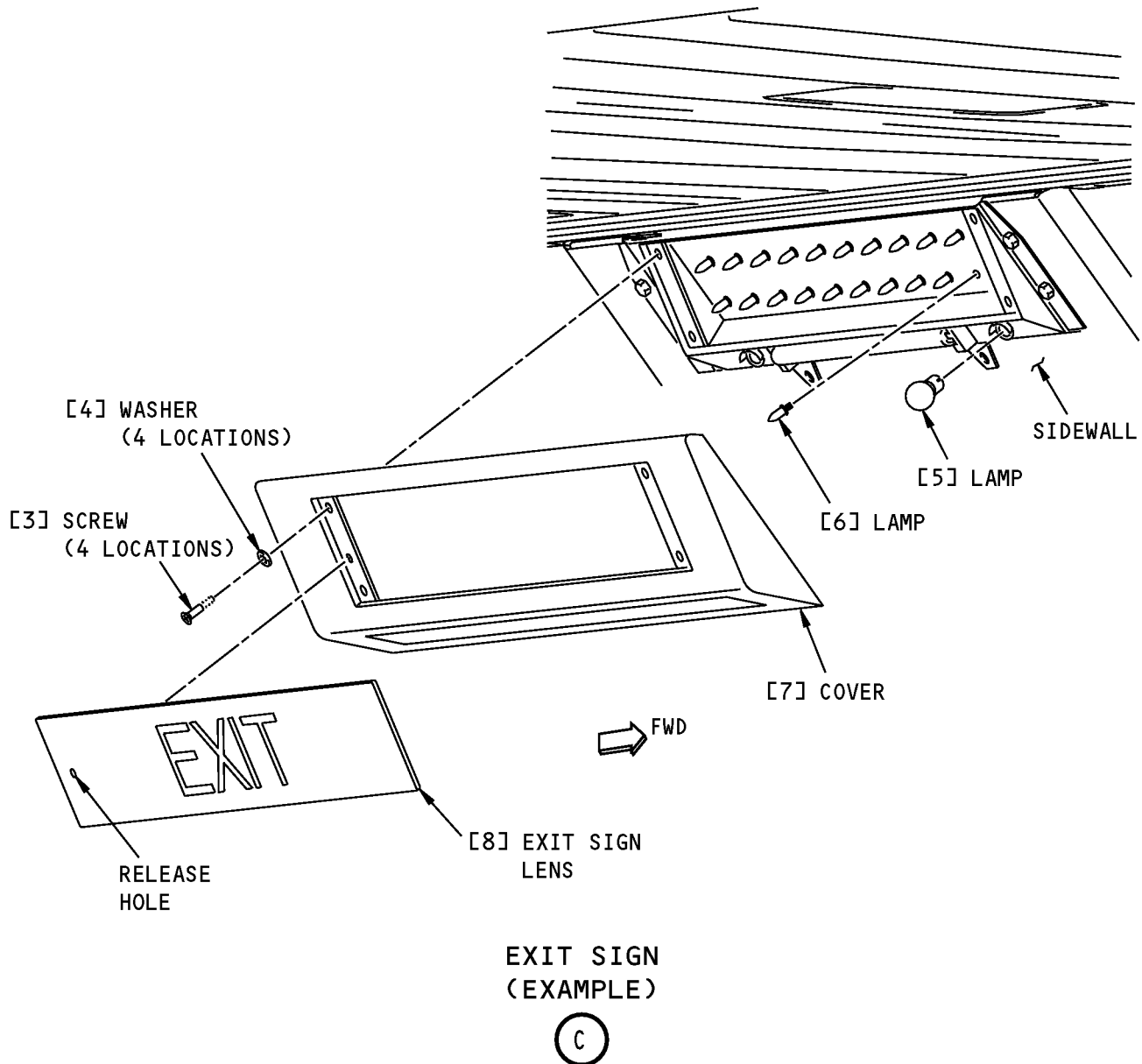
EFFECTIVITY
HAP ALL

33-51-01

Page 206
Feb 15/2009

D633A101-HAP

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Exit Sign - Lamp Replacement
Figure 201 (Sheet 5 of 6)/33-51-01-990-801

EFFECTIVITY
HAP ALL

D633A101-HAP

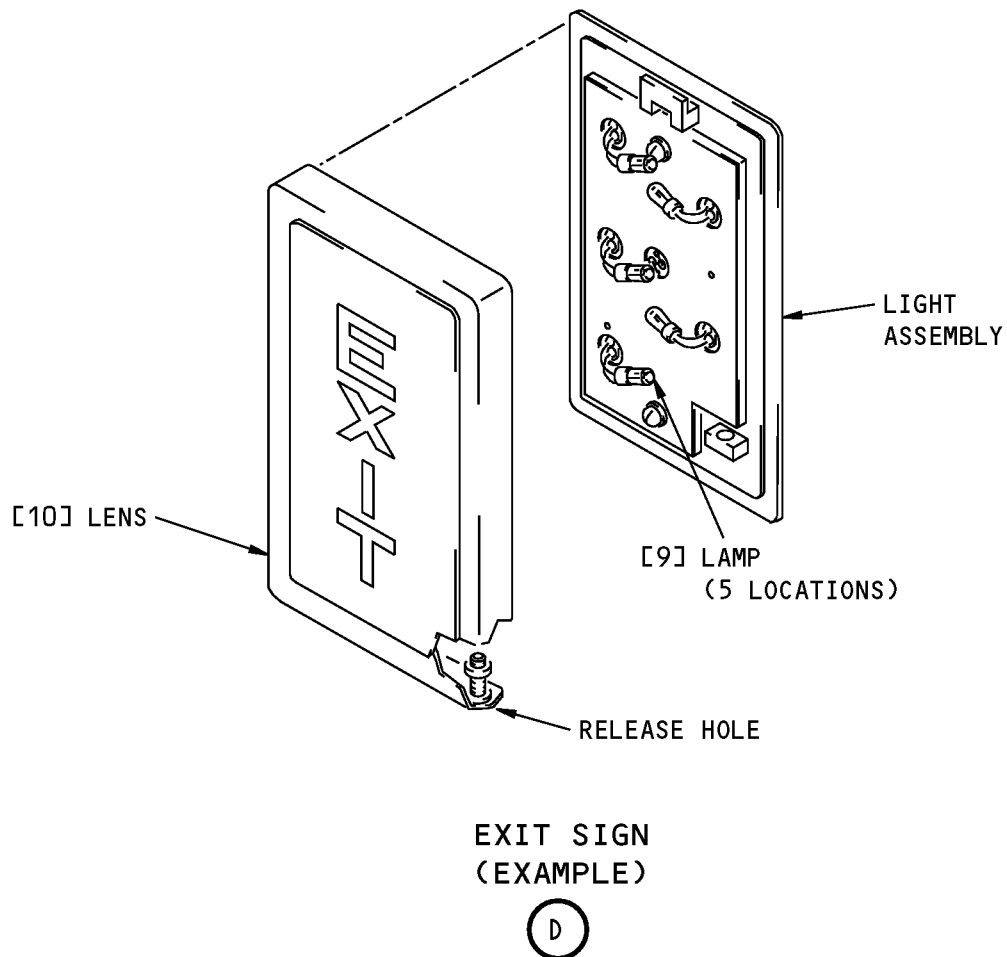
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33-51-01

Page 207
Feb 15/2009



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



Exit Sign - Lamp Replacement
Figure 201 (Sheet 6 of 6)/33-51-01-990-801

EFFECTIVITY
HAP ALL

D633A101-HAP

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33-51-01

Page 208
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-51-01-960-802

3. Exit Sign - Light Assembly Replacement

(Figure 202)

A. References

Reference	Title
SSM 23-42-11	System Schematics Manual
SSM 33-21-11	System Schematics Manual
SSM 33-21-12	System Schematics Manual
SSM 33-27-11	System Schematics Manual
SSM 33-51-12	System Schematics Manual
SSM 33-51-13	System Schematics Manual
SSM 33-51-14	System Schematics Manual
SSM 33-51-21	System Schematics Manual

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Procedure

HAP 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	PASSENGER CABIN LIGHTING EMER CHGR L AFT
A	11	C00250	PASSENGER CABIN LIGHTING EMER CHGR FWD
B	8	C01404	PASSENGER CABIN PASS CALL RIGHT
B	10	C01358	PASSENGER CABIN LIGHTING EMER CHGR R AFT

HAP 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.

HAP 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

EFFECTIVITY
HAP ALL

33-51-01

Page 209
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

HAP ALL; AIRPLANES WITH THE EXIT SIGN INSTALLED ABOVE THE EMERGENCY EXIT DOOR (Continued)

HAP ALL

SUBTASK 33-51-01-010-001

- (5) Get access to the screws and washers that hold the applicable light assembly in its position.

HAP ALL; AIRPLANES WITH THE EXIT SIGN INSTALLED ABOVE A DOOR

- (a) Pull off the lens [1].

HAP ALL; AIRPLANES WITH THE EXIT SIGN ATTACHED TO A CEILING PANEL

- (b) Open an adjacent access or ceiling panel.

HAP 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].

HAP ALL; AIRPLANES WITH THE EXIT SIGN ADJACENT TO AN EXIT AND NEAR THE FLOOR

- (d) Use a rod to push in at the release hole [36], then pull off the lens [10].

HAP ALL

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 (SSM 23-42-11) (SSM 33-21-11) (SSM 33-21-12) (SSM 33-27-11) (SSM 33-51-12) (SSM 33-51-13) (SSM 33-51-14) (SSM 33-51-21):
 - (a) Remove the screws, [21], [27], [31], or [35], and washers, [22], [26], or [34].
 - (b) Disconnect the electrical connector, [23], [28], or [32].
 - (c) Replace the light assembly, [24], [25], [29], or [33].
 - 1) Make sure lamps are installed in the new light assembly.
 - (d) Connect the electrical connector, [23], [28], or [32] to the new light assembly.
 - (e) Install the washers, [22], [26], or [34], and screws, [21], [27], [31], or [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 on an overwing exit sign was removed, install it [7].

EFFECTIVITY
HAP ALL

33-51-01

Page 210
Feb 15/2009

D633A101-HAP



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

SUBTASK 33-51-01-410-004

(10) If a lens was removed, install it. [1], [8], or [10].

HAP 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

HAP 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	PASSENGER CABIN LIGHTING EMER CHGR L AFT
A	11	C00250	PASSENGER CABIN LIGHTING EMER CHGR FWD
B	8	C01404	PASSENGER CABIN PASS CALL RIGHT
B	10	C01358	PASSENGER CABIN LIGHTING EMER CHGR R AFT

HAP ALL

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

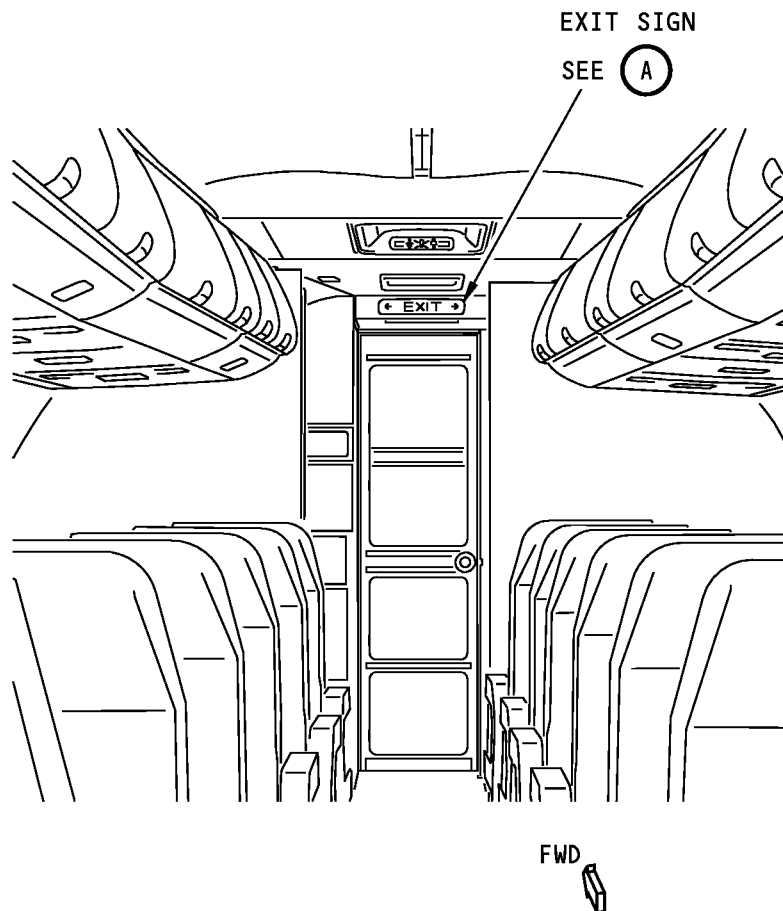
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Page 211
Feb 15/2009

D633A101-HAP



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



PASSENGER COMPARTMENT
(EXAMPLE)

F60481 S0006576369_V3

Exit Sign - Light Assembly Replacement
Figure 202 (Sheet 1 of 6)/33-51-01-990-802

EFFECTIVITY
HAP ALL

D633A101-HAP

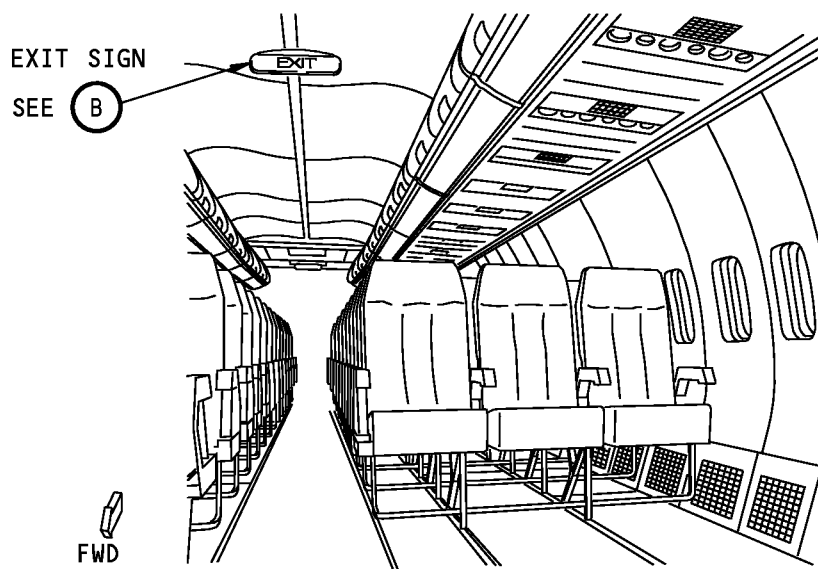
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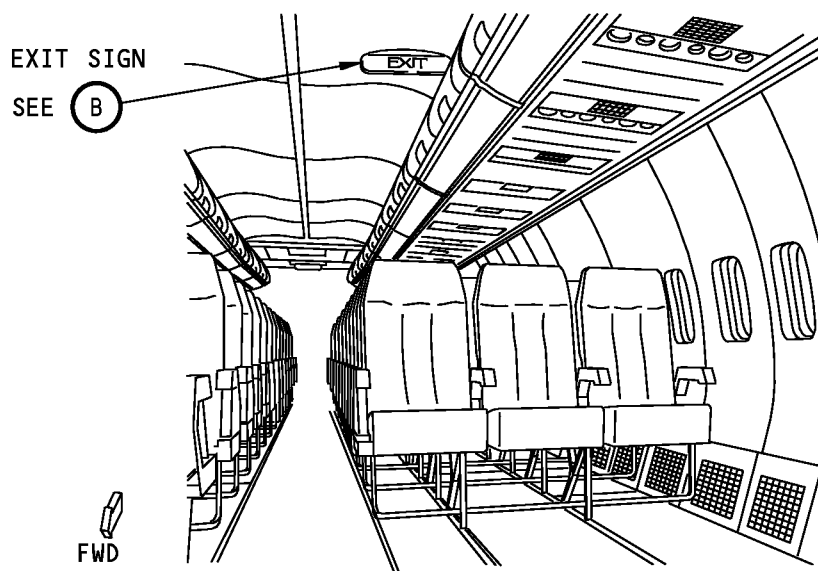
Page 212
Feb 15/2009



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



PASSENGER COMPARTMENT
(EXAMPLE)



PASSENGER COMPARTMENT
(EXAMPLE)

1739014 S0000312054_V1

Exit Sign - Light Assembly Replacement
Figure 202 (Sheet 2 of 6)/33-51-01-990-802

EFFECTIVITY
HAP ALL

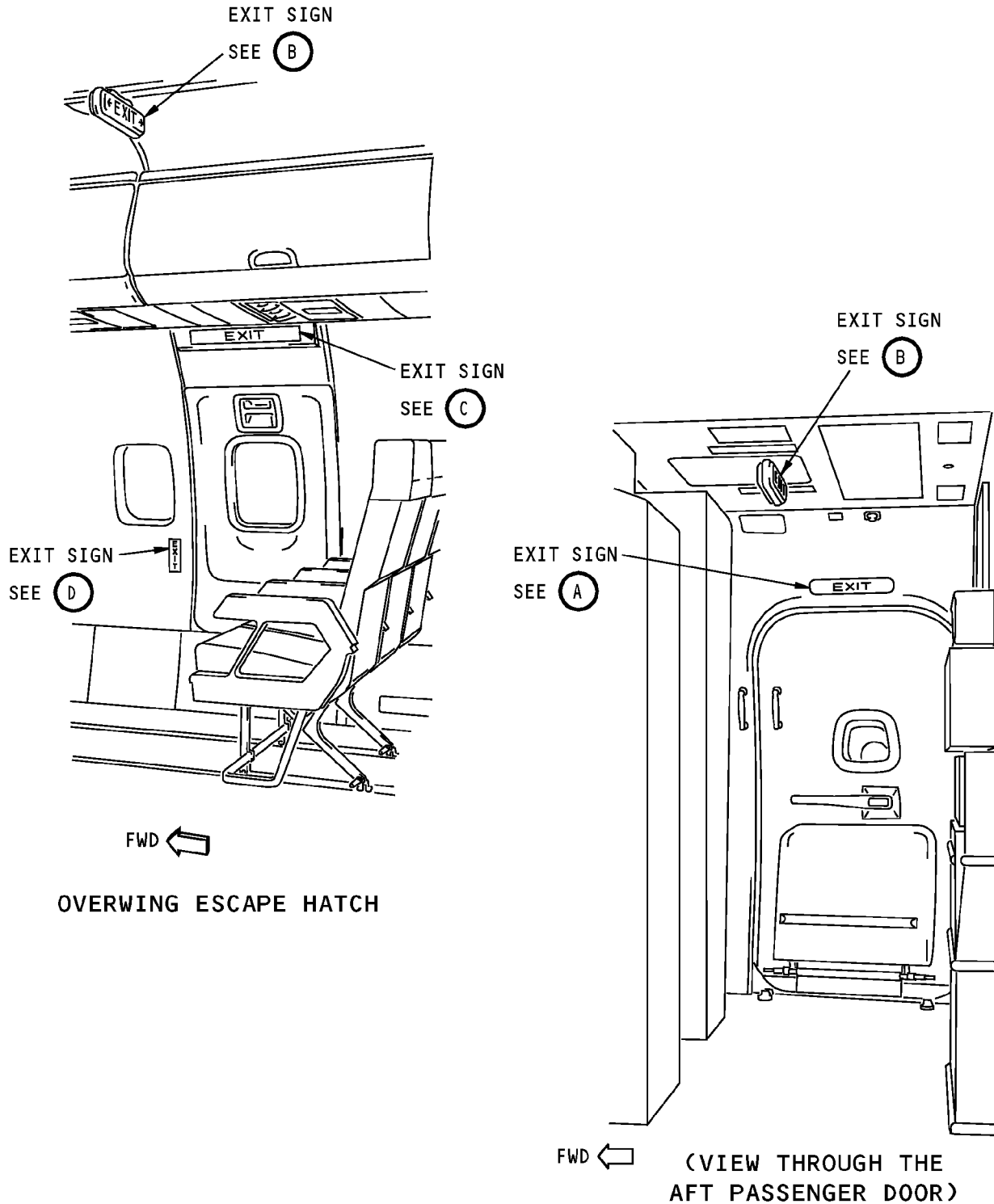
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33-51-01

Page 213
Feb 15/2009

AIRCRAFT MAINTENANCE MANUAL



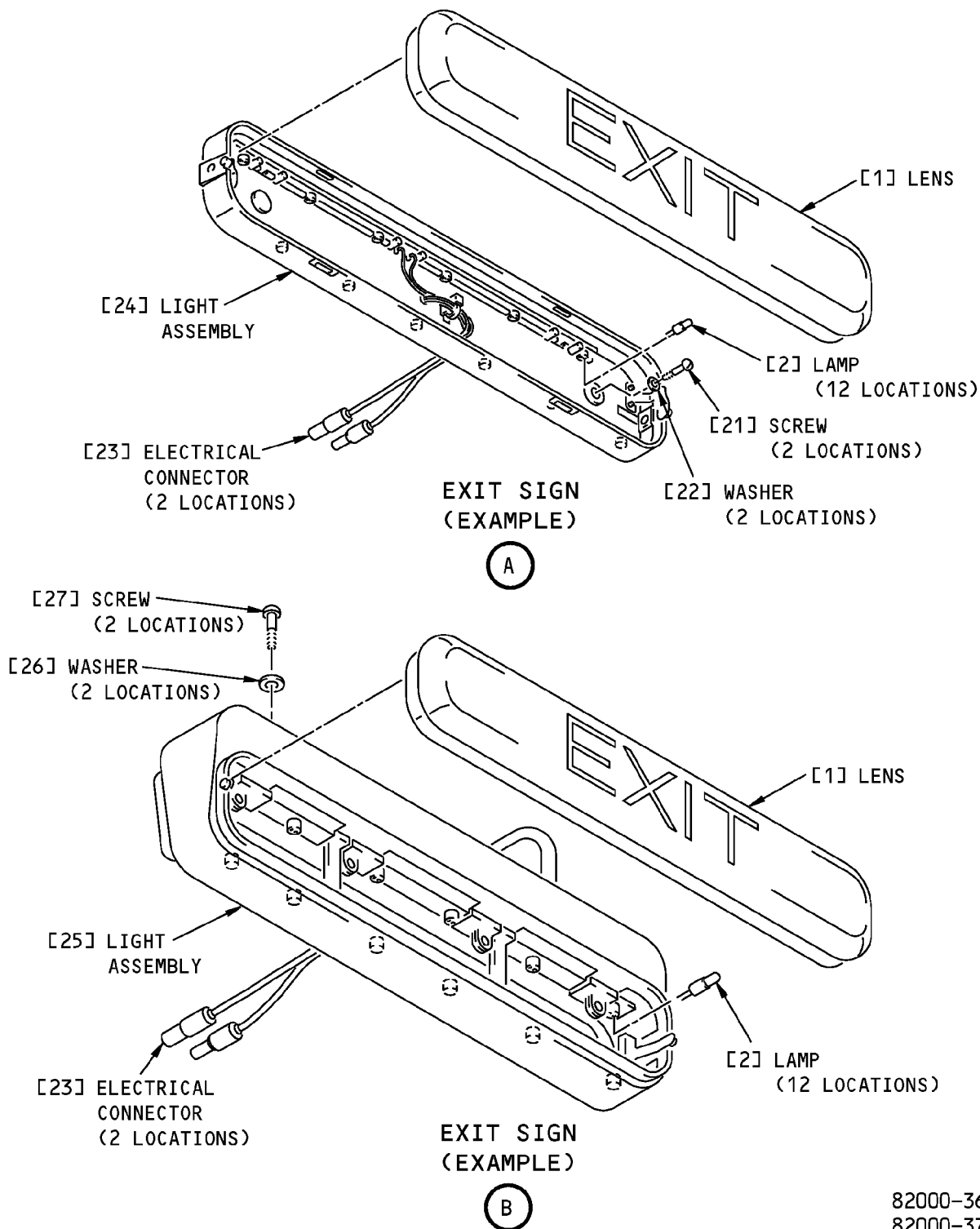
Exit Sign - Light Assembly Replacement
Figure 202 (Sheet 3 of 6)/33-51-01-990-802

EFFECTIVITY
HAP ALL

33-51-01

Page 214
Feb 15/2009

D633A101-HAP



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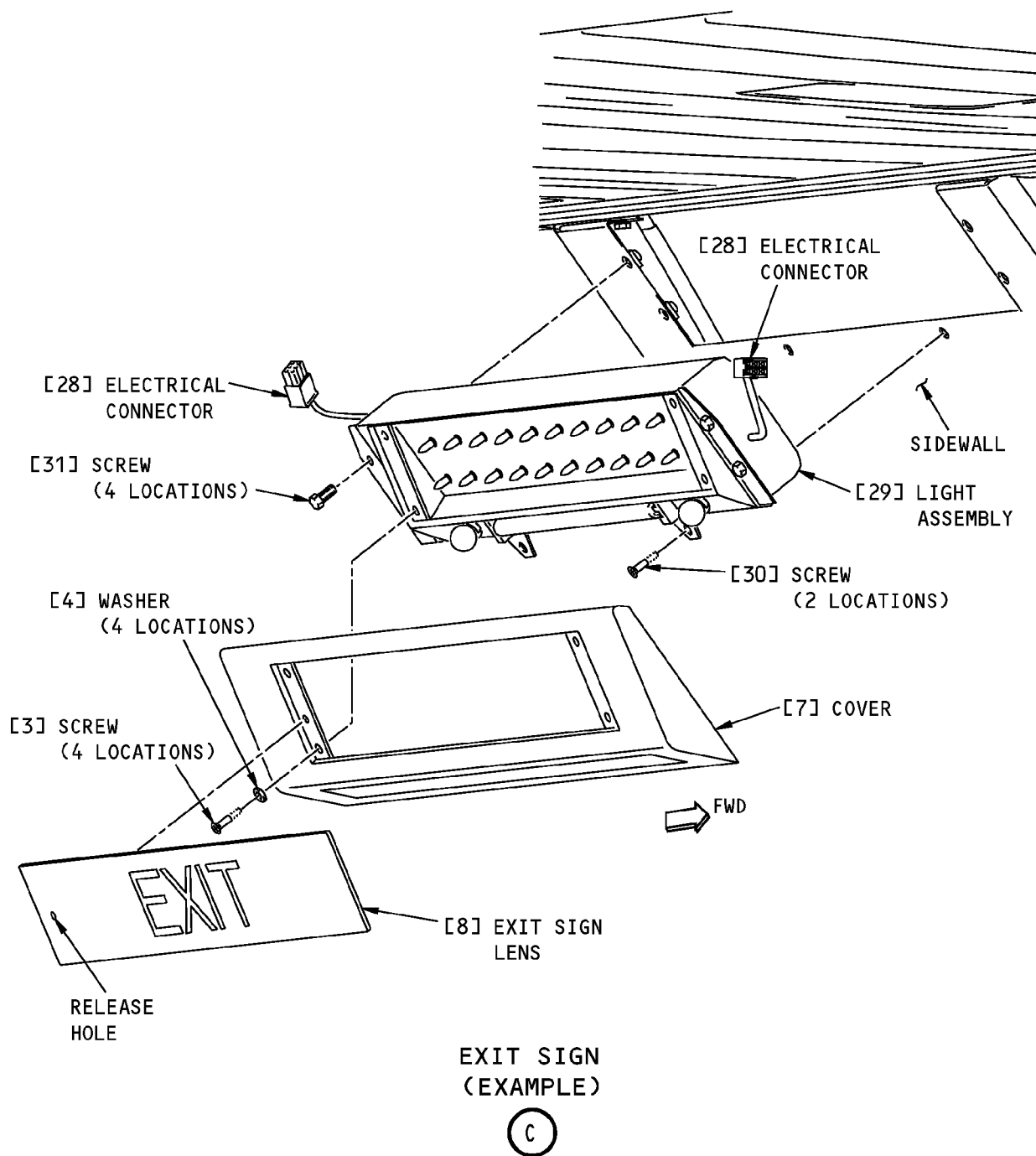
Exit Sign - Light Assembly Replacement
Figure 202 (Sheet 4 of 6)/33-51-01-990-802

EFFECTIVITY
HAP ALL

33-51-01

Page 215
Feb 15/2009

D633A101-HAP



Exit Sign - Light Assembly Replacement
Figure 202 (Sheet 5 of 6)/33-51-01-990-802

EFFECTIVITY
HAP ALL

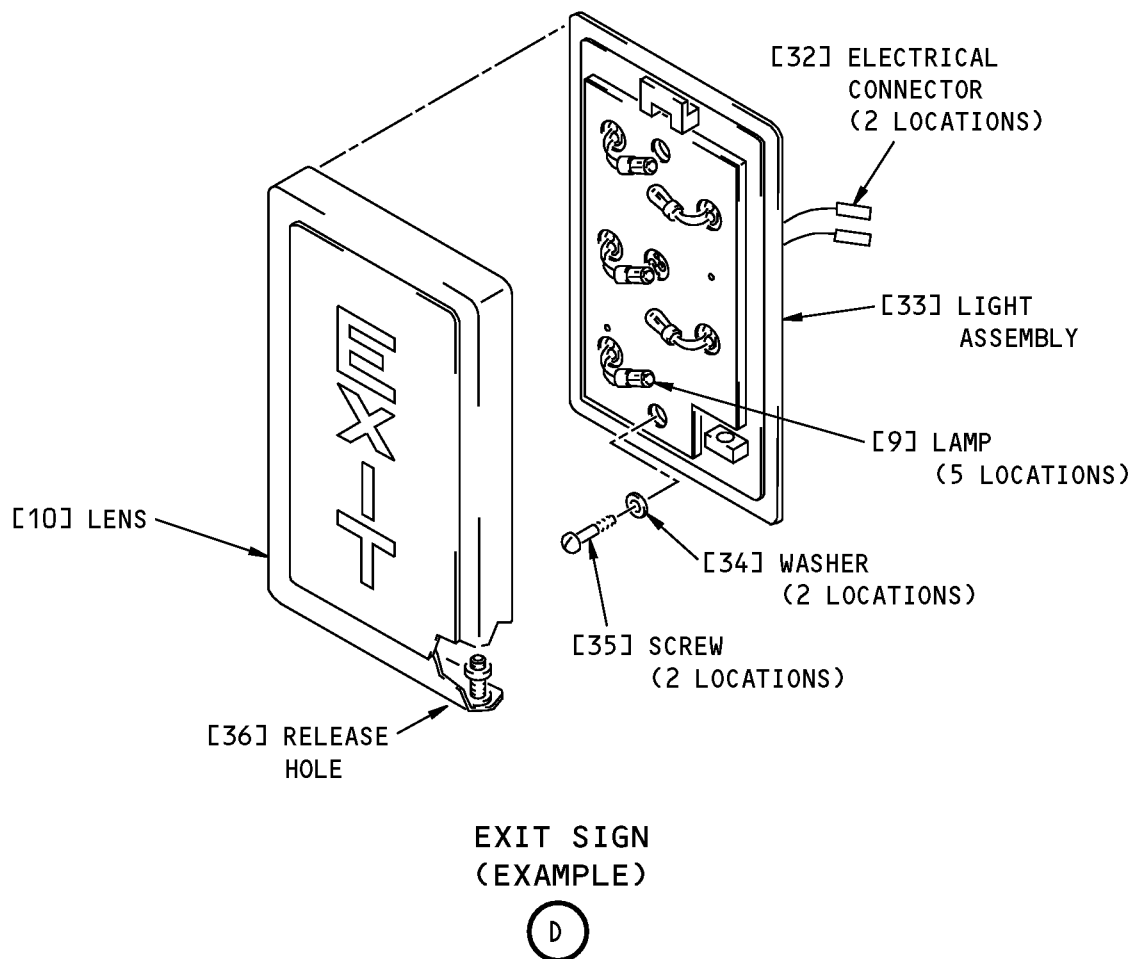
33-51-01

Page 216
Feb 15/2009

D633A101-HAP



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



Exit Sign - Light Assembly Replacement
Figure 202 (Sheet 6 of 6)/33-51-01-990-802

EFFECTIVITY
HAP ALL

D633A101-HAP

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33-51-01

Page 217
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SELF ILLUMINATED EXIT SIGNS - MAINTENANCE PRACTICES

1. General

- A. This procedure contains scheduled maintenance task data.
- B. This procedure contains these tasks for a self-illuminated exit sign (referred to as the sign).
 - (1) A task to do a functional test of the signs.
 - (2) A task for the removal of the signs.
 - (3) A task for the installation of the signs.
- C. Each sign is always on. It is a plastic container that holds glass tubes containing tritium (hydrogen-3) gas. The gas reacts with paint on the inside of the glass tubes, causing it to glow. That glow is the light source for the sign.
- D. The sign is safe, unless it, and any of the glass tubes inside are broken. The gas is not under pressure and the tubes are enclosed in a gelatinous material within the sign. That material would help prevent any release of the gas should the sign be broken. Dry tritium gas is not readily absorbed into the body and if inhaled will be exhaled.
- E. If the sign has broken or cracked, but the glass tubes are not broken, do the following:
 - (1) The air plane ventilation should be turned on with the recirculation turned off.
 - (2) Remove the sign:
 - (a) Have a plastic bag ready to put the sign in.
 - (b) Using disposable rubber gloves, put the sign in the plastic bag.
 - (c) Wrap the damaged sign, and the plastic bag, in bubble wrap and place it, and the gloves, in an airtight container.
 - (d) Dispose of the broken sign in accordance with local government regulations.
- F. If the sign has broken and any of the glass tubes are also broken, the tritium can be released. If any of the tubes or gelatinous material is spilled onto any surface, careful decontamination is required. If this happens:
 - (1) Tell other persons to go away from the area and the sign.
 - (2) The services of a Health Physicist are required.
 - (3) The airplane ventilation should be turned on with the recirculation turned Off.
 - (4) The airplane should not be used until all contamination has been removed.
 - (5) Remove the sign:
 - (a) Have a plastic bag ready to put the sign in.
 - (b) Using disposable rubber gloves, put the sign in the plastic bag.
 - (c) Wrap the damaged sign, and the plastic bag, in bubble wrap and place it, and the gloves, in an airtight container.
 - (d) Dispose of the broken sign in accordance with local government regulations.
- G. For data on government regulations about radioactive materials, speak or write to a person in one of these groups:
 - (1) The radiation group at your airline.
 - (2) If you are in the United State of America (U.S.A.), the Nuclear Regulatory Commission (NRC)
 - (a) If you are in a state with an agreement with the NRC, then obey the regulations of that state. Get the data about the regulations from a person in one of these groups:
 - 1) The medical group at your airline

EFFECTIVITY
HAP ALL

D633A101-HAP

33-51-02

Page 201
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- 2) The state health department.
- (b) If you are in a state that does not have an agreement with the NRC, then obey the regulations of the NRC. Get the data about the regulations from a person in one of these groups:
 - 1) The medical group at your airline
 - 2) The NRC Regional Office.
- (3) If you are in another country, the local government.
- (4) If you cannot get the data from your airline group or the government, write or speak to a person in one of these groups:
 - (a) Boeing Commercial Aviation Services - Safety office
Telephone: (206) 544-0994

TASK 33-51-02-720-801

2. Self Illuminated Exit Sign - Functional Test

A. General

- (1) This procedure is a scheduled maintenance task.

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-5291	Comparator - Illumination, Self-Powered Light (Part #: DB-45-B3, Supplier: 60640, A/P Effectivity: 737-100, -200, -300, -400, -500, -600, -700, -700C, -700ER, -700QC, -800, -900, -900ER, -BBJ) (Opt Part #: DB-45-3, Supplier: 60640, A/P Effectivity: 737-100, -200, -300, -400, -500)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Procedure

SUBTASK 33-51-02-211-001

- (1) Examine the sign for cracks and holes.
 - (a) If the sign is damaged, replace it.
 - 1) Do these tasks to replace the sign: Self Illuminated Exit Sign - Removal, TASK 33-51-02-020-801; Self Illuminated Exit Sign - Installation, TASK 33-51-02-400-801

SUBTASK 33-51-02-730-001

- (2) Do a lighting intensity test
 - (a) Use the light comparator, COM-5291 to compare the intensity of the sign with the intensity of the light in the light comparator, COM-5291.

NOTE: For an accurate test of the sign, the light in the comparator must be a minimum of 250 microlamberts. The intensity of the light in the comparator slowly decreases. Replace the light in the comparator when its intensity is not sufficient for an accurate test.

EFFECTIVITY
HAP ALL

33-51-02

Page 202
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (b) If the lighting in the light comparator, COM-5291 is brighter than the lighting from the sign, replace the sign.
- 1) Do these tasks to replace the sign: Self Illuminated Exit Sign - Removal, TASK 33-51-02-020-801; Self Illuminated Exit Sign - Installation, TASK 33-51-02-400-801

————— **END OF TASK** —————

TASK 33-51-02-020-801

3. Self Illuminated Exit Sign - Removal

Figure 201

A. Consumable Materials

- (1) Gloves, Rubber; protective gloves, G50140
- (2) Bag, Plastic; plastic bag, G00624
- (3) Container, screw-on lid, metal;
- (4) Wrapping material, air bubble protective packaging;

B. References

Reference	Title
21-00-00-800-805	Supply Conditioned Air with a Ground Air Source (P/B 201)
21-00-00-800-806	Remove Conditioned Air Supplied by a Ground Air Source (P/B 201)

C. Consumable Materials

Reference	Description	Specification
G00624	Bag - Plastic, General Purpose	
G50140	Gloves - Protective, Latex or Nitrile	

D. Location Zones

Zone	Area
200	Upper Half of Fuselage

E. Prepare for the Sign Removal

SUBTASK 33-51-02-881-001

- (1) Make sure the airplane air conditioning is On and in non-recirculation mode: Supply Conditioned Air with a Ground Air Source, TASK 21-00-00-800-805 Remove Conditioned Air Supplied by a Ground Air Source, TASK 21-00-00-800-806

SUBTASK 33-51-02-940-001

- (2) Using the rubber gloves:
 - (a) Loosen the setscrews [1] on the top and bottom of the sign
 - (b) Remove the end caps [3] from the sign.

NOTE: When the end caps are removed, you will see the sign fasteners.

F. Remove the Sign

SUBTASK 33-51-02-020-001

- (1) If the sign is not damaged, do these steps to remove it:
 - (a) Using the rubber gloves, loosen the fasteners [2] until they are finger tight but still attached.
 - (b) While holding the sign in place, remove the fasteners completely.

EFFECTIVITY
HAP ALL

33-51-02

Page 203
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (c) Carefully remove the sign and wrap it in the bubble-wrap.
- (d) Place the wrapped sign in the plastic bag and seal it.
- (e) Place the wrapped bag, and the gloves in the screw-top container and close and seal it.

NOTE: Until you can discard the container, keep it away from the general workplace and keep persons away from it.

- 1) Make sure the container has a Radioactive Material label on the outside.
- (f) Dispose of the sign in accordance with local government regulations about radioactive material.

SUBTASK 33-51-02-020-002

(2) If the sign is damaged, do these steps to remove it:

- (a) If the sign is cracked or if any pieces of the sign, such as the gel inside or the glass tubes or pieces of the sign itself have broken loose, follow the ventilation instructions at the beginning of this procedure above.
- (b) Once people have been warned away from the area and ventilation started, quickly and carefully do the following:
 - 1) Using the rubber gloves, loosen the fasteners [2] until they are finger tight but still attached.
 - 2) While holding the sign in place, remove the fasteners completely.
 - 3) Carefully remove the sign and wrap it in the bubble-wrap.
 - 4) Place the wrapped sign in the plastic bag and seal it.
 - 5) Put the plastic bag and rubber gloves in the airtight container and seal it.
 - 6) Quickly remove the container from the airplane to a well ventilated area and keep people away from it.
 - 7) Make sure the container has a Radioactive Material label on the outside.
- (c) Dispose of the sign in accordance with local government regulations about radioactive material.

NOTE: Make sure you obey all local government regulations about disposal of radioactive material.

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

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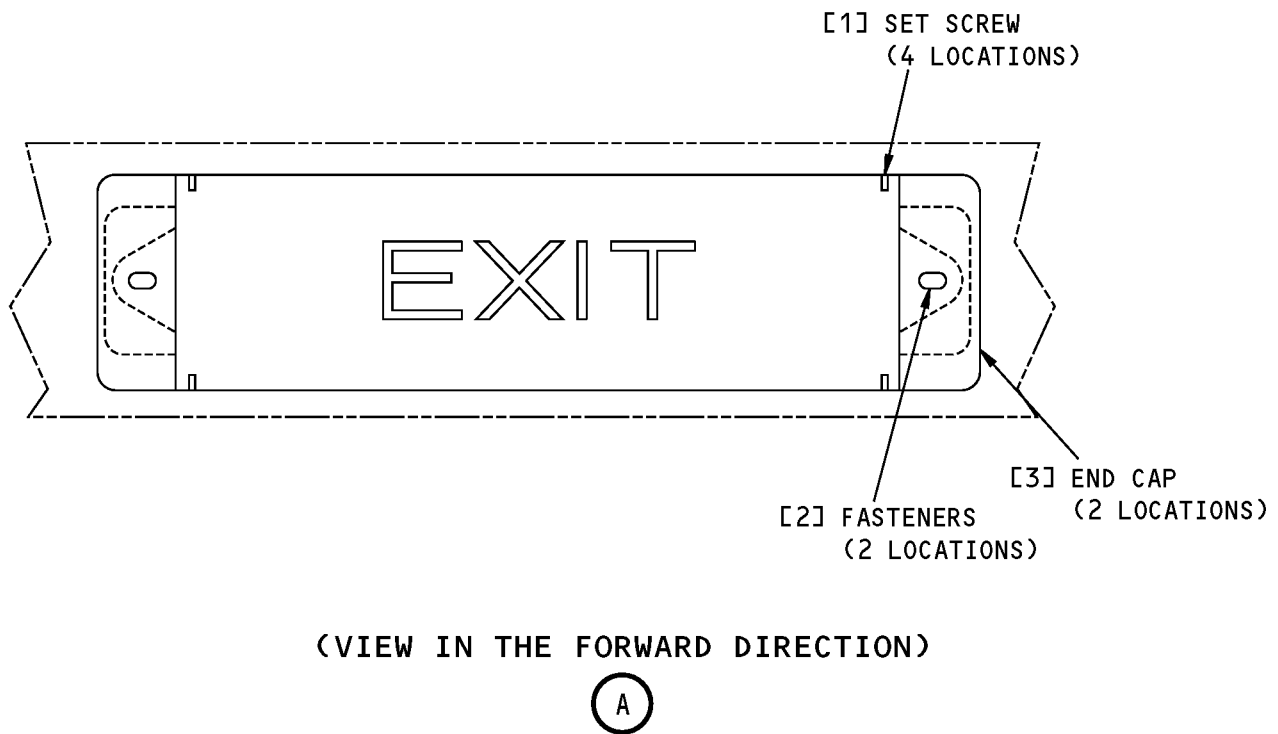
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33-51-02

Page 204
Feb 15/2009



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



Self Illuminated Signs
Figure 201/33-51-02-990-801

EFFECTIVITY
HAP ALL

D633A101-HAP

33-51-02

Page 205
Feb 10/2005



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-51-02-400-801

4. Self Illuminated Exit Sign - Installation

Figure 201

A. Consumable Materials

- (1) Gloves, Rubber; protective gloves, G50140

B. References

Reference	Title
21-00-00-800-805	Supply Conditioned Air with a Ground Air Source (P/B 201)
21-00-00-800-806	Remove Conditioned Air Supplied by a Ground Air Source (P/B 201)

C. Consumable Materials

Reference	Description	Specification
G50140	Gloves - Protective, Latex or Nitrile	

D. Location Zones

Zone	Area
200	Upper Half of Fuselage

E. Prepare to install the new sign

SUBTASK 33-51-02-881-002

- (1) Make sure the air conditioning is On and in non-recirculation mode: Supply Conditioned Air with a Ground Air Source, TASK 21-00-00-800-805 Remove Conditioned Air Supplied by a Ground Air Source, TASK 21-00-00-800-806

SUBTASK 33-51-02-410-001

(2) Install the new sign

- (a) Carefully place the sign in place over the mounting studs.
- (b) tighten the fasteners [2] to hold the sign in place
- (c) Place the end caps [3] on the sign and tighten the set screws [1] to hold them in place.

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

D633A101-HAP

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33-51-02

Page 206
Feb 10/2005



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

AREA LIGHTS - MAINTENANCE PRACTICES

1. General

A. This procedure has these tasks:

- (1) Area Light - Lamp Replacement
- (2) Area Light - Light Assembly Replacement

TASK 33-51-03-960-801

2. Area Light - Lamp Replacement

(Figure 201)

A. References

Reference	Title
SSM 33-51-12	System Schematics Manual
SSM 33-51-13	System Schematics Manual
SSM 33-51-14	System Schematics Manual

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Procedure

SUBTASK 33-51-03-960-001

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 lamp (SSM 33-51-12) (SSM 33-51-13) (SSM 33-51-14):
 - (a) Use the release hole [2] to remove the lens assembly [1].
 - (b) Replace the lamp [3].
 - (c) Install the lens assembly [1].

SUBTASK 33-51-03-710-001

- (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 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
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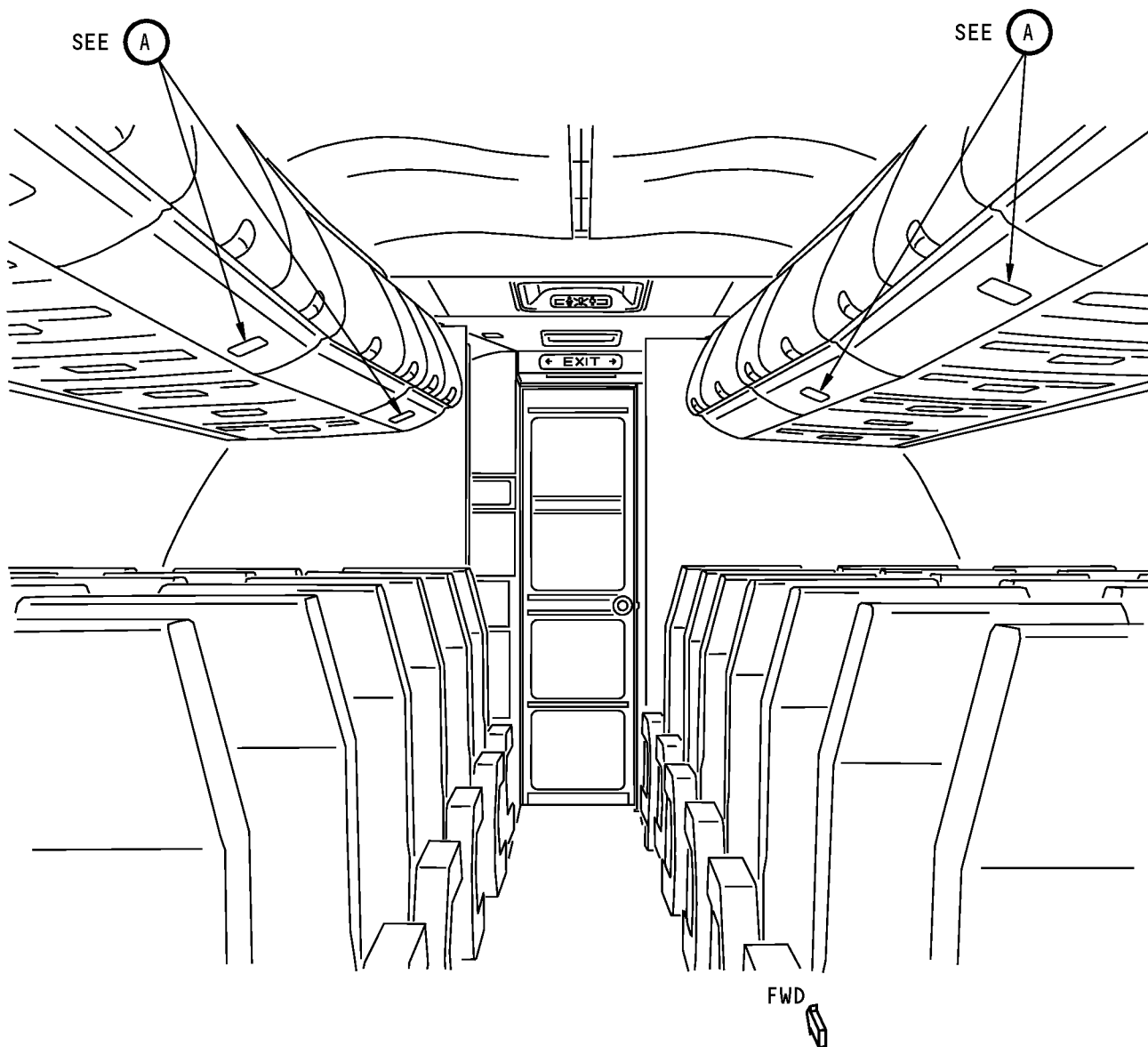
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Page 201
Feb 10/2004

D633A101-HAP



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



PASSENGER COMPARTMENT

Aisle Light - Lamp Replacement
Figure 201 (Sheet 1 of 2)/33-51-03-990-801

EFFECTIVITY
HAP ALL

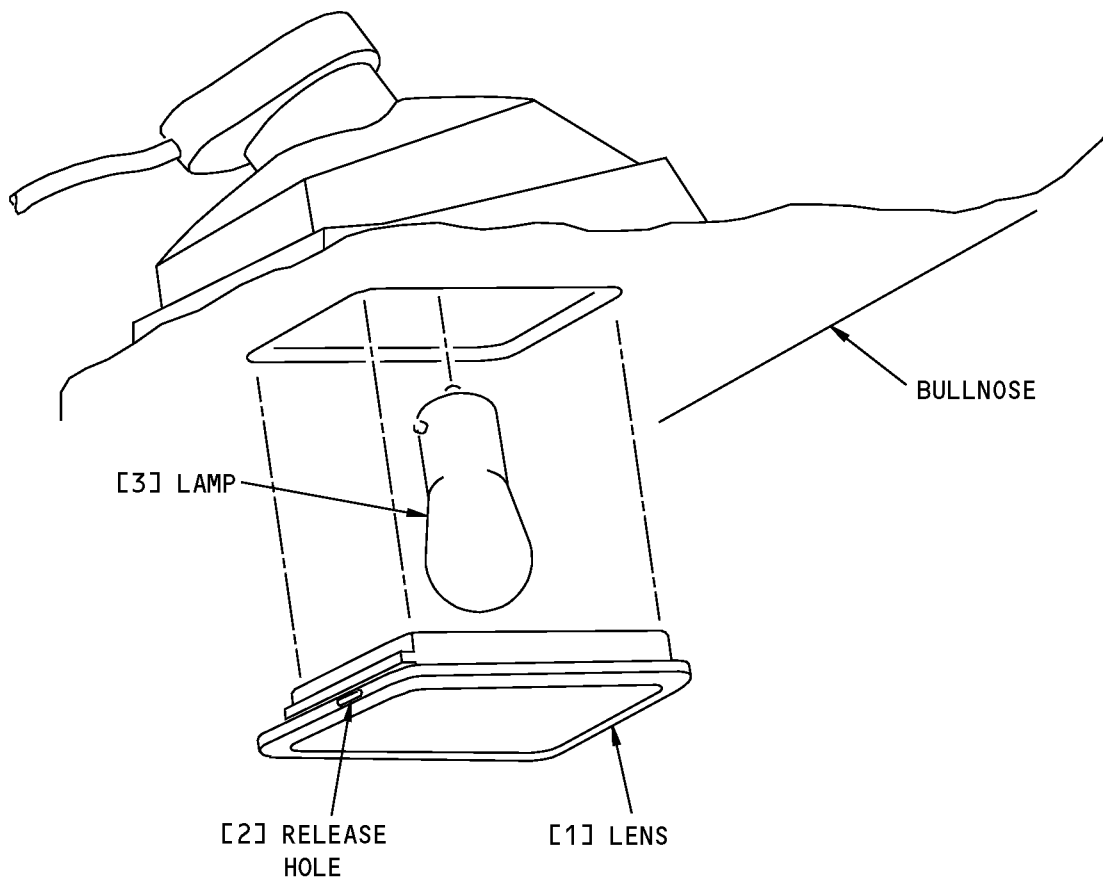
D633A101-HAP

33-51-03

Page 202
Oct 10/2003



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



AISLE LIGHT
(EXAMPLE)



Aisle Light - Lamp Replacement
Figure 201 (Sheet 2 of 2)/33-51-03-990-801

EFFECTIVITY
HAP ALL

D633A101-HAP

33-51-03

Page 203
Oct 10/2003



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-51-03-960-802

3. Area Light - Light Assembly Replacement

(Figure 202)

A. References

Reference	Title
SSM 33-51-12	System Schematics Manual
SSM 33-51-13	System Schematics Manual
SSM 33-51-14	System Schematics Manual

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Procedure

SUBTASK 33-51-03-960-002

WARNING: DO NOT TOUCH THE METAL PINS IN THE ELECTRICAL CONNECTOR. WHEN ELECTRICAL POWER IS SUPPLIED TO THE LIGHT, ELECTRICAL SHOCK CAN OCCUR.

- (1) Do these steps to replace the light assembly (SSM 33-51-12) (SSM 33-51-13) (SSM 33-51-14):
 - (a) Remove the adjacent PSU.
 - (b) Remove the screws [24] and washers [25].
 - (c) Lift up the cover [22] on the electrical wires.
 - (d) Disconnect the electrical wires [[21].
 - (e) Replace the light assembly [23].
 - (f) Connect the electrical wires [21] to the new light assembly.
 - (g) Put the cover [22] on the electrical wires.
 - (h) Install the washers [25] and screws [24].
 - (i) Install the adjacent PSU.

SUBTASK 33-51-03-710-002

- (2) 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 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
HAP ALL

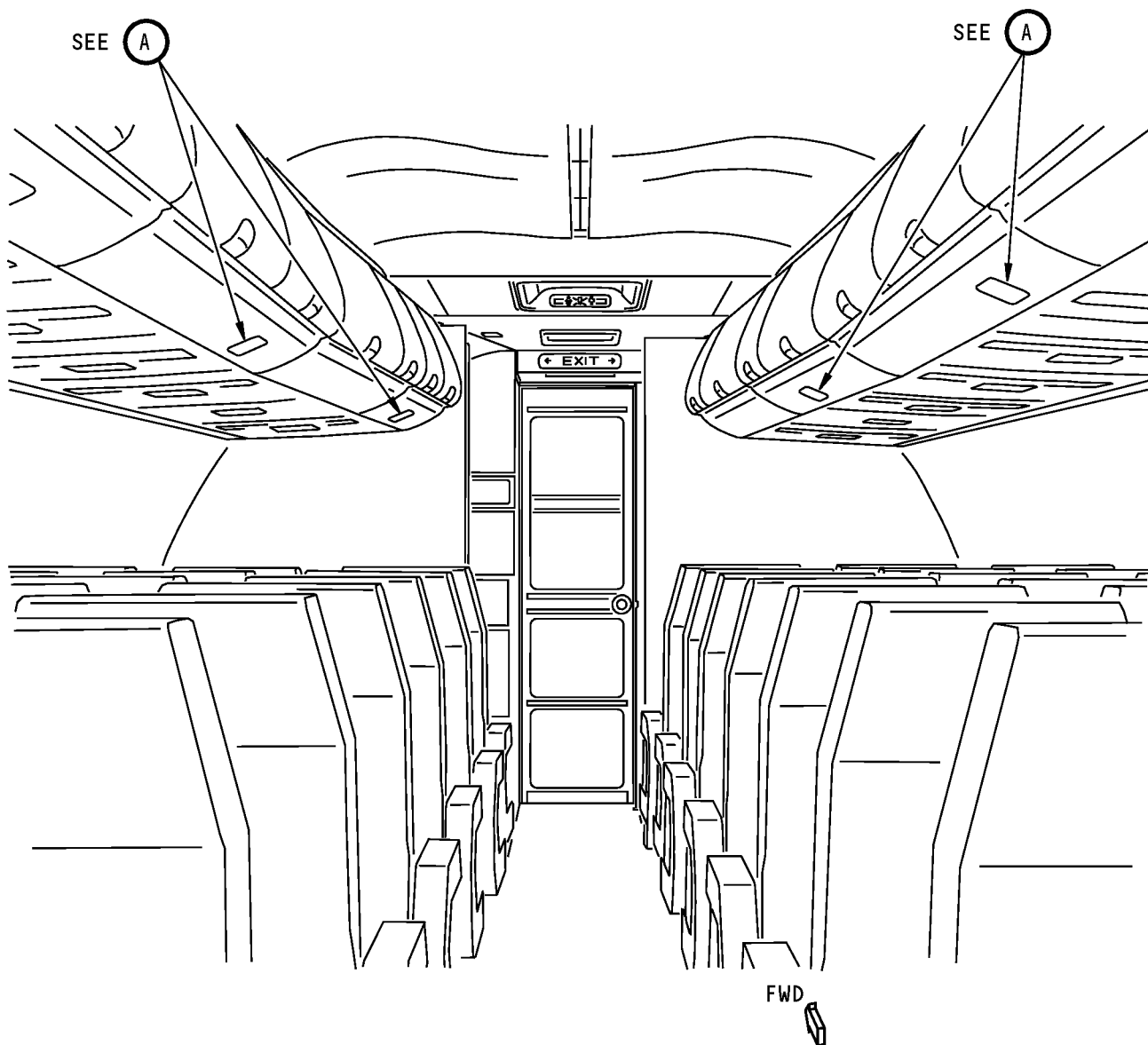
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Page 204
Feb 10/2004

D633A101-HAP



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



PASSENGER COMPARTMENT

Aisle Light - Light Assembly Replacement
Figure 202 (Sheet 1 of 2)/33-51-03-990-802

EFFECTIVITY
HAP ALL

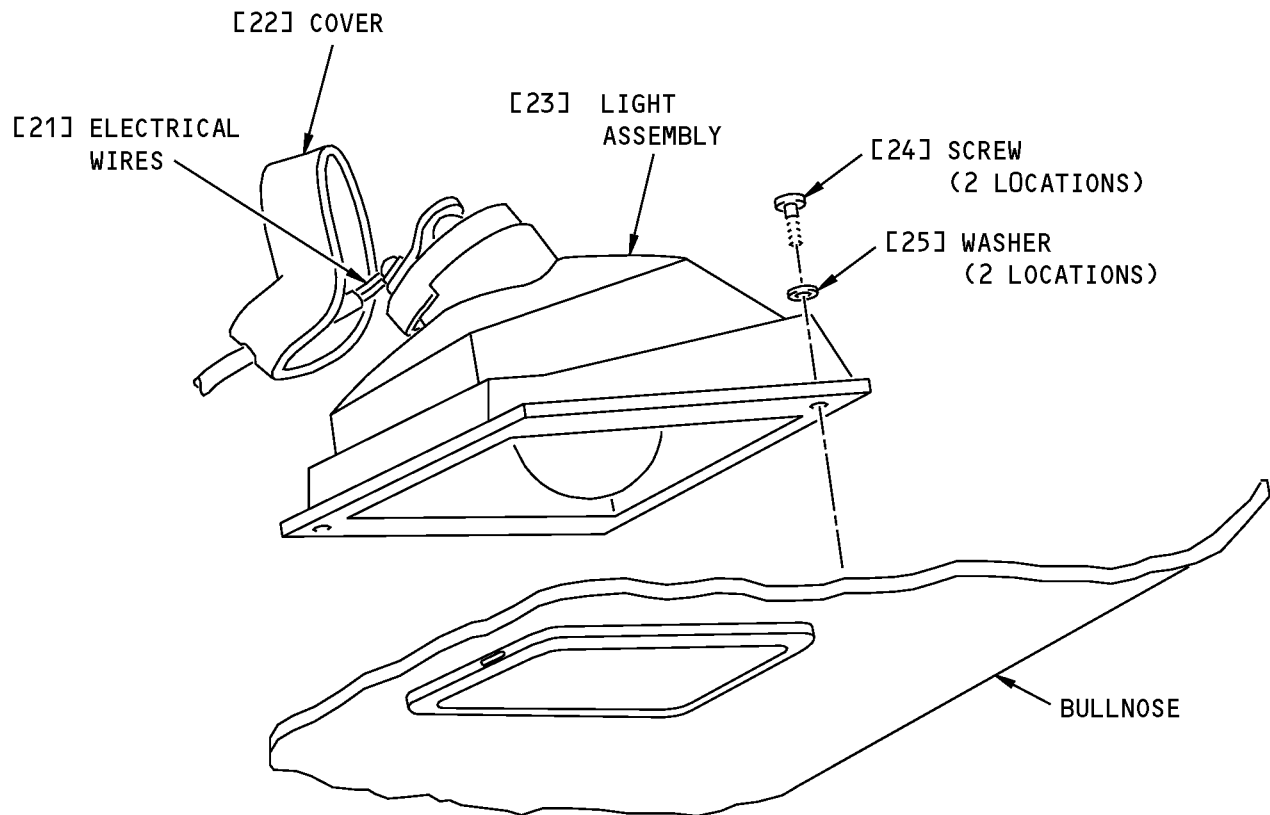
D633A101-HAP

33-51-03

Page 205
Oct 10/2003



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



AISLE LIGHT
(EXAMPLE)

A

Aisle Light - Light Assembly Replacement
Figure 202 (Sheet 2 of 2)/33-51-03-990-802

EFFECTIVITY
HAP ALL

D633A101-HAP

33-51-03

Page 206
Oct 10/2003



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

SLIDE/OVERWING LIGHTS - MAINTENANCE PRACTICES

1. General

A. This procedure has one task:

- (1) Slide/Overwing Light - Lamp 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
SSM 33-51-12	System Schematics Manual
SSM 33-51-13	System Schematics Manual
SSM 33-51-14	System Schematics Manual

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. 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 (SSM 33-51-12) (SSM 33-51-13) (SSM 33-51-14):

- (a) Loosen the fasteners, [2] or [6], and remove the lens assembly, [3] or [7].

NOTE: The lanyard, [1] or [5], stays connected.

- (b) Replace the lamp, [4] or [8].

- (c) Install the lens assembly, [3] or [7], and tighten the fasteners, [2] or [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** —————

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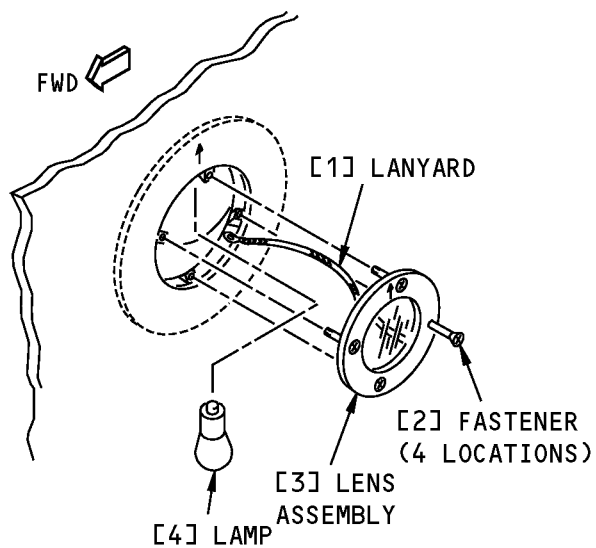
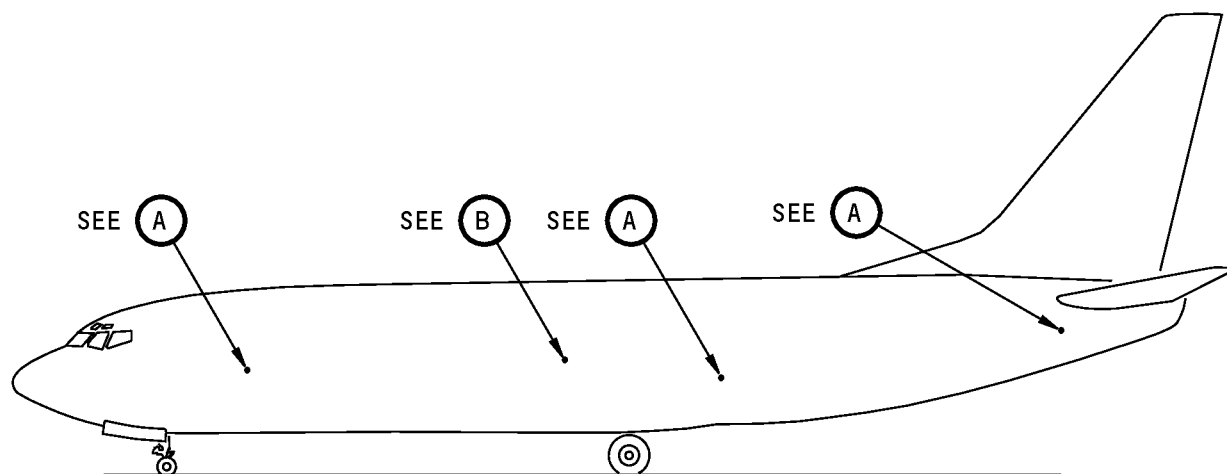
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Page 201
Feb 10/2004

D633A101-HAP

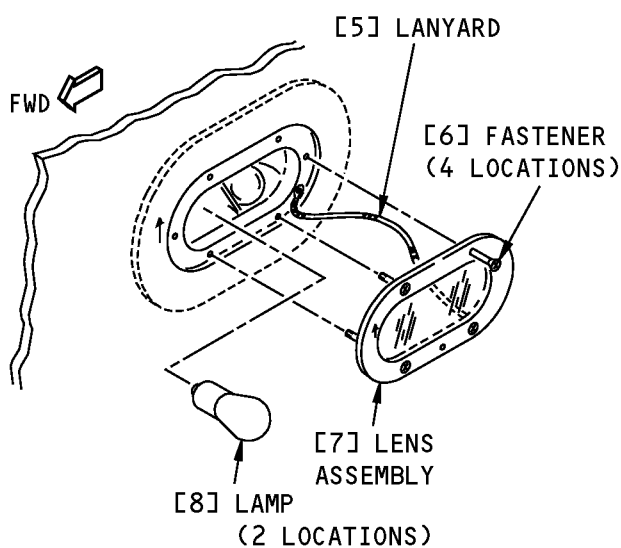


737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL



SLIDE LIGHT
(EXAMPLE)

A



WING/SLIDE LIGHT
(EXAMPLE)

B

Slide Light - Lamp Replacement
Figure 201/33-51-04-990-801

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33-51-04

Page 202
Oct 10/2003



737-600/700/800/900

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 (SSM 33-51-11) (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 16 hours.

SUBTASK 33-51-06-860-010

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

————— **END OF TASK** —————

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HAP ALL

D633A101-HAP

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33-51-06

Page 201
Feb 15/2009



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
SSM 33-51-11	System Schematics Manual
WDM 33-51-11	Wiring Diagram Manual

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. 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	PASSENGER CABIN LIGHTING EMER CHGR L AFT
A	11	C00250	PASSENGER CABIN LIGHTING EMER CHGR FWD
B	10	C01358	PASSENGER CABIN LIGHTING EMER CHGR R AFT

SUBTASK 33-51-06-010-003

- (2) Get access to the power supply:

NOTE: Use the SSM or WDM to identify power supply locations (SSM 33-51-11 thru 33-51-21) (WDM 33-51-11 thru 33-51-21).

HAP ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED NEAR THE FORWARD ENTRY DOOR

- (a) Lower the left side of the entry light.

HAP ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED NEAR THE AFT ENTRY DOOR

- (b) Open the access panel in the lowered ceiling panel.

HAP ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED ALONG THE SIDEWALL NEAR THE FLOOR

- (c) Remove the sidewall carpet riser.

HAP ALL

SUBTASK 33-51-06-960-004

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

- (a) Loosen the fasteners [3] on the battery pack.

CAUTION: DO NOT LIFT THE BATTERY PACK BEFORE YOU PULL IT AWAY FROM THE POWER SUPPLY AND THE PINS BECOME FREE. YOU CAN CAUSE DAMAGE TO THE PIN CONTACTS.

- (b) Slide the battery pack [4] away from the power supply to disconnect its pins from the base of the power supply.

- (c) Replace each damaged fuse [8].

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EFFECTIVITY
HAP ALL

33-51-06

Page 202
Jun 10/2007

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

HAP
HAP

- (d) Slide the battery pack [4] onto the power supply to insert the power supply pin contacts in the battery sockets.
- (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

Row	Col	Number	Name
A	10	C01357	PASSENGER CABIN LIGHTING EMER CHGR L AFT
A	11	C00250	PASSENGER CABIN LIGHTING EMER CHGR FWD
B	10	C01358	PASSENGER 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 SSM or WDM to identify the individual lights and signs (SSM 33-51-12 thru 33-51-21) (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:

HAP ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED NEAR THE FORWARD ENTRY DOOR

- (a) Install the entry light.

HAP ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED NEAR THE AFT ENTRY DOOR

- (b) Close the access panel in the lowered ceiling panel.

HAP ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED ALONG THE SIDEWALL NEAR THE FLOOR

- (c) Install the sidewall carpet riser.

HAP ALL

————— **END OF TASK** —————

EFFECTIVITY
HAP ALL

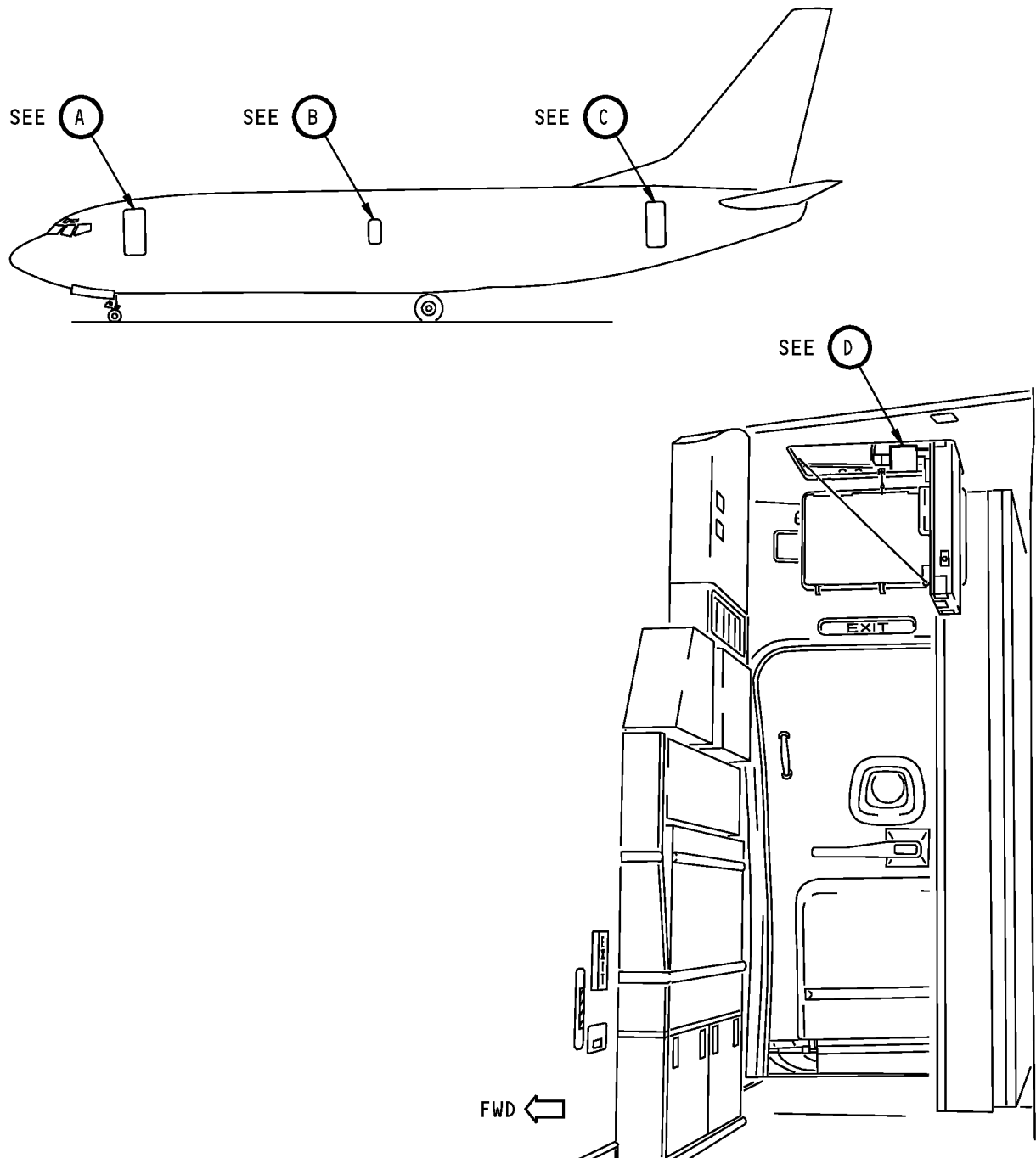
33-51-06

Page 203
Jun 10/2007

D633A101-HAP



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



VIEW THROUGH THE
FORWARD PASSENGER DOOR

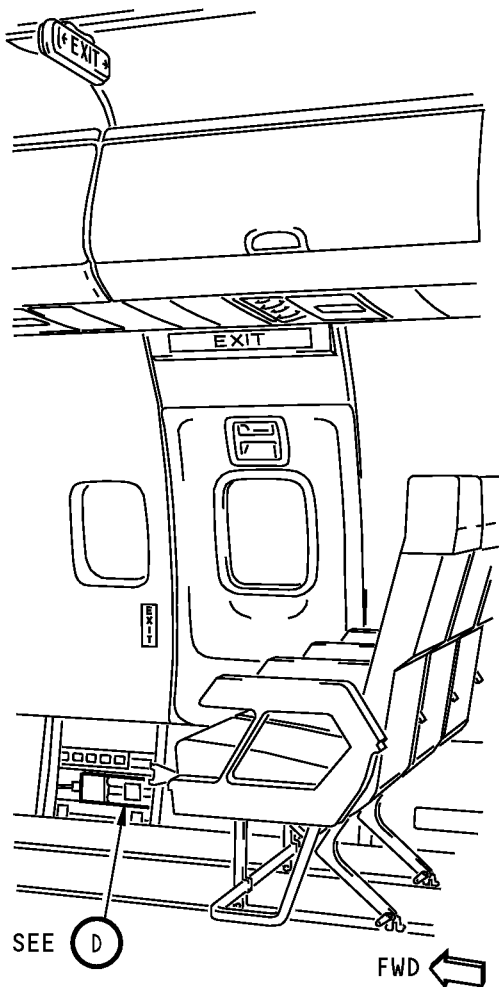
Power Supply - Power Supply/Battery Pack/Fuse Replacement
Figure 201 (Sheet 1 of 3)/33-51-06-990-802

EFFECTIVITY
HAP ALL

33-51-06

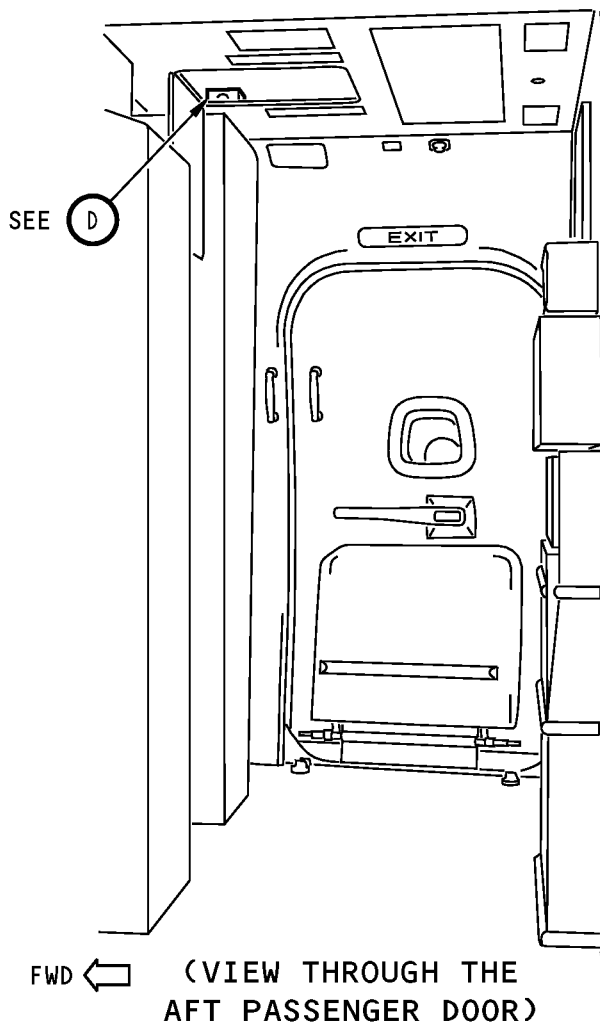
Page 204
Oct 10/2003

D633A101-HAP



**OVERWING ESCAPE HATCH
(EXAMPLE)**

(B)

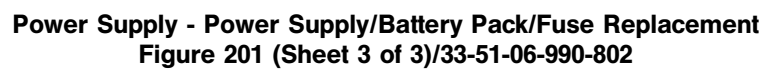


(C)

**Power Supply - Power Supply/Battery Pack/Fuse Replacement
Figure 201 (Sheet 2 of 3)/33-51-06-990-802**

**EFFECTIVITY
HAP ALL**

33-51-06



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737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

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
SSM 33-51-11	System Schematics Manual
SSM 33-51-12 thru 33-51-21	System Schematics Manual
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	PASSENGER CABIN LIGHTING EMER CHGR L AFT
A	11	C00250	PASSENGER CABIN LIGHTING EMER CHGR FWD
B	10	C01358	PASSENGER 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 SSM or WDM to identify power supply locations (SSM 33-51-12 thru 33-51-21) (WDM 33-51-12 thru 33-51-21).

HAP ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED NEAR THE FORWARD ENTRY DOOR

- (a) Lower the left side of the entry light.

HAP ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED NEAR THE AFT ENTRY DOOR

- (b) Open the access panel in the lowered ceiling panel.

HAP ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED ALONG THE SIDEWALL NEAR THE FLOOR

- (c) Remove the sidewall carpet riser.

HAP ALL

SUBTASK 33-51-06-960-005

- (3) Do these steps to remove the battery pack:

- (a) Loosen the fasteners [3].

EFFECTIVITY
HAP ALL

33-51-06

Page 207
Feb 10/2007

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

HAP
HAP

- (b) Slide the battery pack [4] away from the power supply 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:

HAP
HAP

- (a) Slide the battery pack [4] onto the power supply to insert the power supply pin contacts in the battery sockets.
- (b) Tighten the fasteners [3].

SUBTASK 33-51-06-710-004

- (5) Do a test of the new battery pack:

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
A	10	C01357	PASSENGER CABIN LIGHTING EMER CHGR L AFT
A	11	C00250	PASSENGER CABIN LIGHTING EMER CHGR FWD
B	10	C01358	PASSENGER 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 battery pack come on.

NOTE: Use the SSM or WDM to identify the individual lights and signs (SSM 33-51-12 thru 33-51-21) (WDM 33-51-12 thru 33-51-21).

- 2) 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.

HAP ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED NEAR THE FORWARD ENTRY DOOR

- (a) Install the entry light.

HAP ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED NEAR THE AFT ENTRY DOOR

- (b) Close the access panel in the lowered ceiling panel.

HAP ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED ALONG THE SIDEWALL NEAR THE FLOOR

- (c) Install the sidewall carpet riser.

HAP ALL

————— END OF TASK —————

EFFECTIVITY
HAP ALL

33-51-06

Page 208
Feb 10/2007

D633A101-HAP



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
SSM 33-51-11	System Schematics Manual
SSM 33-51-12 thru 33-51-21	System Schematics Manual
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 33-51-06-860-013

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
A	10	C01357	PASSENGER CABIN LIGHTING EMER CHGR L AFT
A	11	C00250	PASSENGER CABIN LIGHTING EMER CHGR FWD
B	10	C01358	PASSENGER CABIN LIGHTING EMER CHGR R AFT

SUBTASK 33-51-06-010-005

- (2) Get access to the power supply:

NOTE: Use the SSM or WDM to identify power supply locations (SSM 33-51-12 thru 33-51-21) (WDM 33-51-12 thru 33-51-21).

HAP ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED NEAR THE FORWARD ENTRY DOOR

- (a) Lower the left side of the entry light.

HAP ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED NEAR THE AFT ENTRY DOOR

- (b) Open the access panel in the lowered ceiling panel.

HAP ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED ALONG THE SIDEWALL NEAR THE FLOOR

- (c) Remove the sidewall carpet riser.

HAP ALL

SUBTASK 33-51-06-960-007

- (3) Do these steps to replace the power supply:

- (a) Disconnect the electrical connector [6].

EFFECTIVITY
HAP ALL

33-51-06

Page 209
Feb 10/2007

D633A101-HAP



737-600/700/800/900

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

Row	Col	Number	Name
A	10	C01357	PASSENGER CABIN LIGHTING EMER CHGR L AFT
A	11	C00250	PASSENGER CABIN LIGHTING EMER CHGR FWD
B	10	C01358	PASSENGER 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 SSM or WDM to identify the individual lights and signs (SSM 33-51-12 thru 33-51-21) (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:

HAP ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED NEAR THE FORWARD ENTRY DOOR

- (a) Install the entry light.

HAP ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED NEAR THE AFT ENTRY DOOR

- (b) Close the access panel in the lowered ceiling panel.

HAP ALL; AIRPLANES WITH THE POWER SUPPLY INSTALLED ALONG THE SIDEWALL NEAR THE FLOOR

- (c) Install the sidewall carpet riser.

HAP ALL

————— END OF TASK —————

TASK 33-51-06-200-801

6. Power Supply - Battery Pack Capacity Check

A. General

- (1) This procedure is a scheduled maintenance task.

EFFECTIVITY
HAP ALL

33-51-06

Page 210
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (2) The capacity check makes sure each battery pack can operate its emergency lights and signs for a minimum of 15 minutes.

B. References

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
SSM 33-51-12 thru 33-51-21	System Schematics 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 33-51-06-860-014

- (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 16 hours 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 16 hours.

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 SSM or WDM (SSM 33-51-12 thru 33-51-21) (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 16 hours.

EFFECTIVITY

HAP ALL

33-51-06

Page 211
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

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.

- (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 16 hours.

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 16 hours.

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

A. General

- (1) This procedure is a scheduled maintenance task.

- (2) 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.

EFFECTIVITY
HAP ALL

33-51-06

Page 212
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE 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)

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:

- (a) At the overhead panel, P5, set the pilots emergency light switch to the on mode.
- (b) Keep the switch on until all emergency lights and signs go off.

NOTE: The removal of electrical power from the battery packs can take up to 90 minutes.

- (c) After all emergency lights and signs go off, set the switch to the off mode.
- (d) Charge the battery packs (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 16 hours.

SUBTASK 33-51-06-860-020

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

————— **END OF TASK** —————

HAP
HAP
HAP
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EFFECTIVITY
HAP ALL

D633A101-HAP

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33-51-06

Page 213
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

FLOOR PROXIMITY LIGHTS, FLOOR-MOUNTED INCANDESCENT - MAINTENANCE PRACTICES

1. General

- A. This procedure has these tasks:
- (1) Floor Proximity Light - Lamp Replacement
 - (2) Floor Proximity Light - Light Assembly Replacement
- B. For exit signs that identify the doors and escape hatches, these are the tasks:
- Exit Sign - Lamp Replacement, TASK 33-51-01-960-801
 - Exit Sign - Light Assembly Replacement, TASK 33-51-01-960-802

TASK 33-51-12-960-801

2. Floor Proximity Light - Lamp Replacement

(Figure 201)

A. References

Reference	Title
SSM 33-51-21	System Schematics Manual
WDM 33-51-21	Wiring Diagram Manual

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Procedure

SUBTASK 33-51-12-960-001

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 lamp (SSM 33-51-21) (WDM 33-51-21):

- (a) Lift up the edge of the lens [2] to remove it from the floor track.

NOTE: If you remove a lens with an arrow, record the direction of the arrow. If you remove a colored lens, record its location.

- (b) Replace the lamp [1].

- (c) Install the lens [2].

NOTE: A lens with an arrow must be installed with the arrow pointed in the correct direction. A colored lens must be installed in its correct location.

SUBTASK 33-51-12-710-001

- (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 go off.

————— **END OF TASK** —————

EFFECTIVITY

HAP 001-013, 015-026, 028-030; AIRPLANES WITH FLOOR-MOUNTED INCANDESCENT LIGHTS

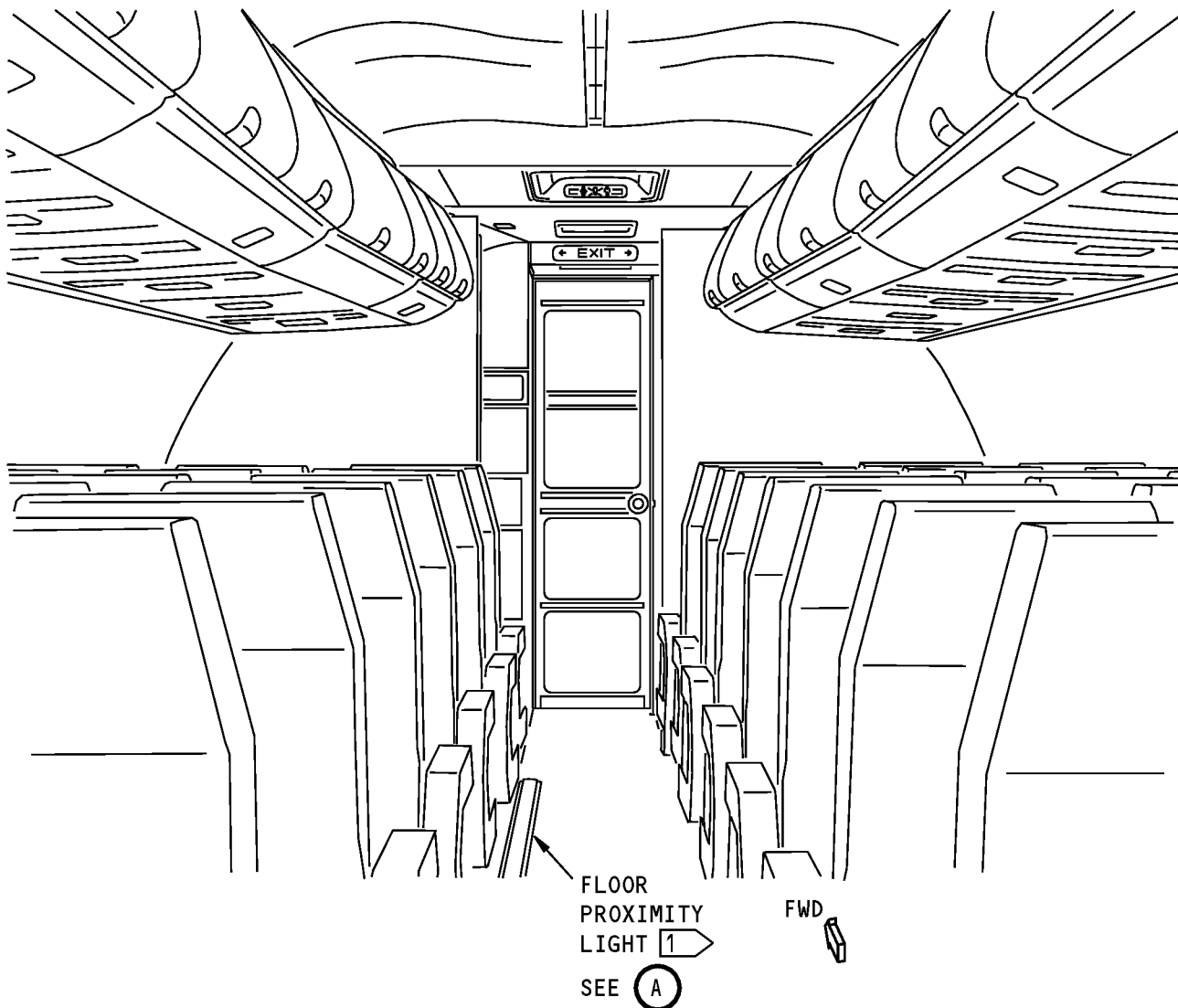
D633A101-HAP

33-51-12

Page 201
Jun 10/2007



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



PASSENGER COMPARTMENT

1 INSTALLED ON LEFT OR RIGHT SIDE OF AISLE

Floor Proximity Light - Lamp Replacement
Figure 201 (Sheet 1 of 2)/33-51-12-990-801

EFFECTIVITY
HAP 001-013, 015-026, 028-030; AIRPLANES WITH FLOOR-MOUNTED INCANDESCENT LIGHTS

D633A101-HAP

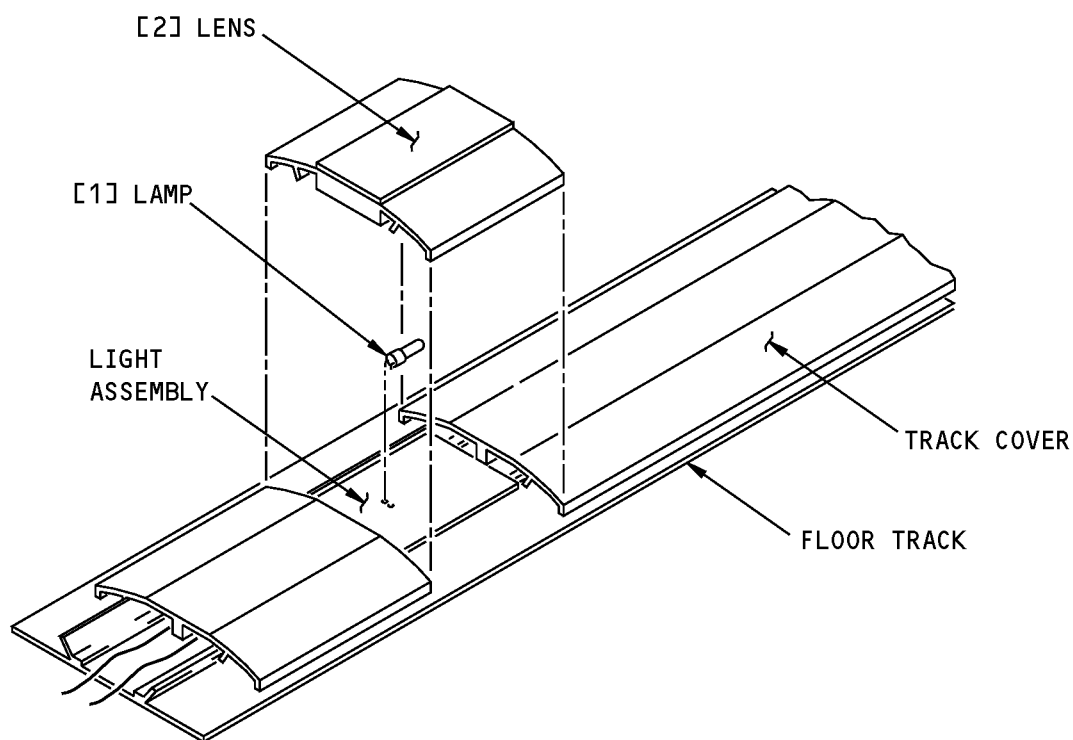
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33-51-12

Page 202
Jun 10/2007



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



FLOOR PROXIMITY LIGHT
(EXAMPLE)

A

Floor Proximity Light - Lamp Replacement
Figure 201 (Sheet 2 of 2)/33-51-12-990-801

EFFECTIVITY

HAP 001-013, 015-026, 028-030; AIRPLANES WITH FLOOR-MOUNTED INCANDESCENT LIGHTS

D633A101-HAP

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33-51-12

Page 203
Jun 10/2007



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-51-12-960-802

3. Floor Proximity Light - Light Assembly Replacement

(Figure 202)

A. General

- (1) This task replaces a light assembly. It can also be used to remove and install a string of light assemblies (light module), lenses, and track covers.
- (2) The floor track in which the light assembly installed is also called the raceway.
- (3) If it is necessary to remove the floor track (raceway), do this task: Floor Proximity Lighting Raceway Removal, TASK 25-27-31-000-801-001.
- (4) If it is necessary to install the floor track, do this task: Floor Proximity Lighting Raceway Installation, TASK 25-27-31-400-801-001.

B. References

Reference	Title
25-27-31-000-801-001	Floor Proximity Lighting Raceway Removal (P/B 401)
25-27-31-400-801-001	Floor Proximity Lighting Raceway Installation (P/B 401)
SSM 33-51-21	System Schematics Manual
WDM 33-51-21	Wiring Diagram Manual

C. Consumable Materials

Reference	Description	Specification
A00027	Adhesive - Silicone Rubber, 1 Part, RTV	BAC5010, Type 60
B00130	Alcohol - Isopropyl	TT-I-735
B00148	Solvent - Methyl Ethyl Ketone (MEK)	ASTM D740

D. Location Zones

Zone	Area
200	Upper Half of Fuselage

E. Procedure

SUBTASK 33-51-12-960-002

- (1) Do these steps to replace the light assembly (SSM 33-51-21) (WDM 33-51-21):
 - (a) Lift up the edge of each applicable lens [2] and remove it from the floor track.

NOTE: If you remove a lens with an arrow, record the direction of the arrow. If you remove a colored lens, record its location.
 - (b) Lift up the edge of the adjacent track cover [23] and remove it from the floor track.
 - 1) If the track cover is glued to the floor track, do these steps to remove it:
 - a) Use the head of a plastic chisel to lift the track cover away from the floor track.

EFFECTIVITY

HAP 001-013, 015-026, 028-030; AIRPLANES WITH FLOOR-MOUNTED INCANDESCENT LIGHTS

D633A101-HAP

33-51-12

Page 204
Jun 10/2007



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

WARNING: DO NOT GET METHYL ETHYL KEYTONE (MEK) IN YOUR MOUTH OR EYES OR ON YOUR SKIN. DO NOT BREATHE THE FUMES FROM MEK. PUT ON A RESPIRATOR, PROTECTIVE SPLASH GOGLES, AND GLOVES WHEN YOU USE MEK. KEEP MEK AWAY FROM SPARKS, FLAME, AND HEAT. MEK IS A POISONOUS AND FLAMMABLE SOLVENT WHICH CAN CAUSE INJURIES TO PERSONS AND DAMAGE TO EQUIPMENT.

- b) If the track cover cannot be lifted away, apply a small amount of solvent, B00148 or a similar product, to a cloth and rub the cloth against the flange that is between the raceway and the cover.
- (c) Disconnect the applicable electrical wires [22] from each side of the light assembly.
- (d) Lift out the light assembly [21].
- (e) Connect the electrical wires [22] to the new light assembly.

NOTE: The electrical wires must be fully engaged. You must feel two clicks when you connect the electrical connector. You can use pliers to aid in the installation. If you do not feel the two clicks, then replace the light assembly that has the loose connector.

- 1) Make sure the new light assembly includes a lamp.
- (f) Install the new light assembly [21] in the floor track.
- (g) Install the track cover [23].

- 1) If the track cover is next to an end cap, do these steps to install the track cover:

NOTE: Only the track covers adjacent to the end caps (at the beginning and end of each floor track) are glued to the floor track.

- a) Put the light assembly against the end cap.
- b) If it is necessary, trim the track cover to make sure that no gaps exist between the track cover and the light assembly.
- c) Remove the track cover.
- d) Clean the track cover and floor track with isopropyl alcohol, B00130.
- e) Apply approximately a 1/8-inch (3.2 mm) bead of the adhesive, A00027, to the hooking flange of the floor track tangs that mate with the track cover.

NOTE: The adhesive beads should start and end approximately 0.5 inches (12.7 mm) from each end of the track cover. Keep the adhesive away from the light assemblies

- f) Install the track cover [23].
- (h) Install the lens [2].

NOTE: A lens with an arrow must be installed with the arrow pointed in the correct direction. A colored lens must be installed in its correct location.

SUBTASK 33-51-12-710-002

- (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.

EFFECTIVITY
HAP 001-013, 015-026, 028-030; AIRPLANES WITH FLOOR-MOUNTED INCANDESCENT LIGHTS

D633A101-HAP

33-51-12

Page 205
Jun 10/2007



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (b) Set the switch to the off mode.
 - 1) Make sure all emergency lights go off.

————— **END OF TASK** —————

EFFECTIVITY

HAP 001-013, 015-026, 028-030; AIRPLANES WITH FLOOR-MOUNTED INCANDESCENT LIGHTS

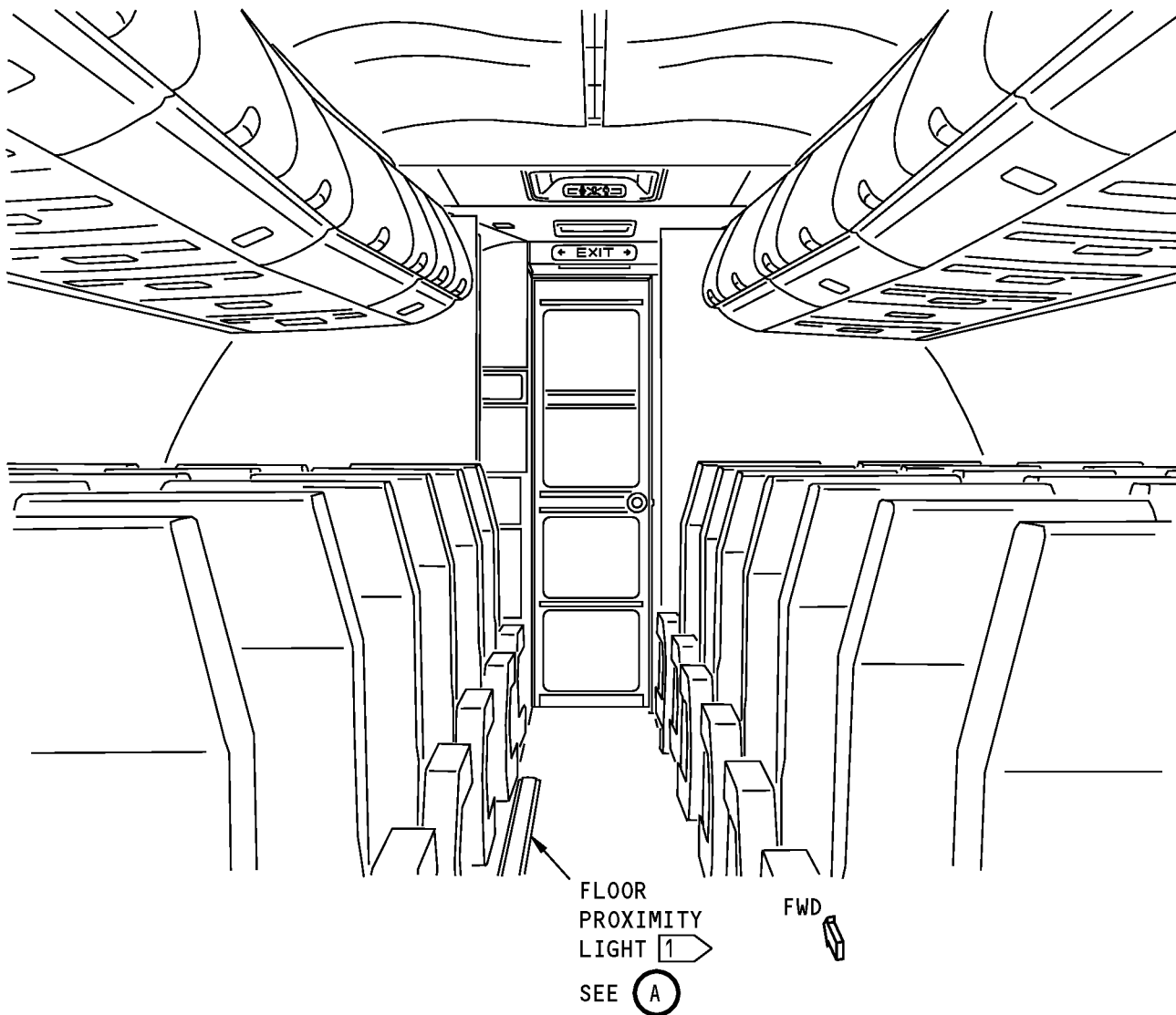
D633A101-HAP

33-51-12

Page 206
Jun 10/2007



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



PASSENGER COMPARTMENT

1 INSTALLED ON LEFT OR RIGHT SIDE OF AISLE

Floor Proximity Light - Light Assembly Replacement
Figure 202 (Sheet 1 of 2)/33-51-12-990-802

EFFECTIVITY
HAP 001-013, 015-026, 028-030; AIRPLANES WITH FLOOR-MOUNTED INCANDESCENT LIGHTS

D633A101-HAP

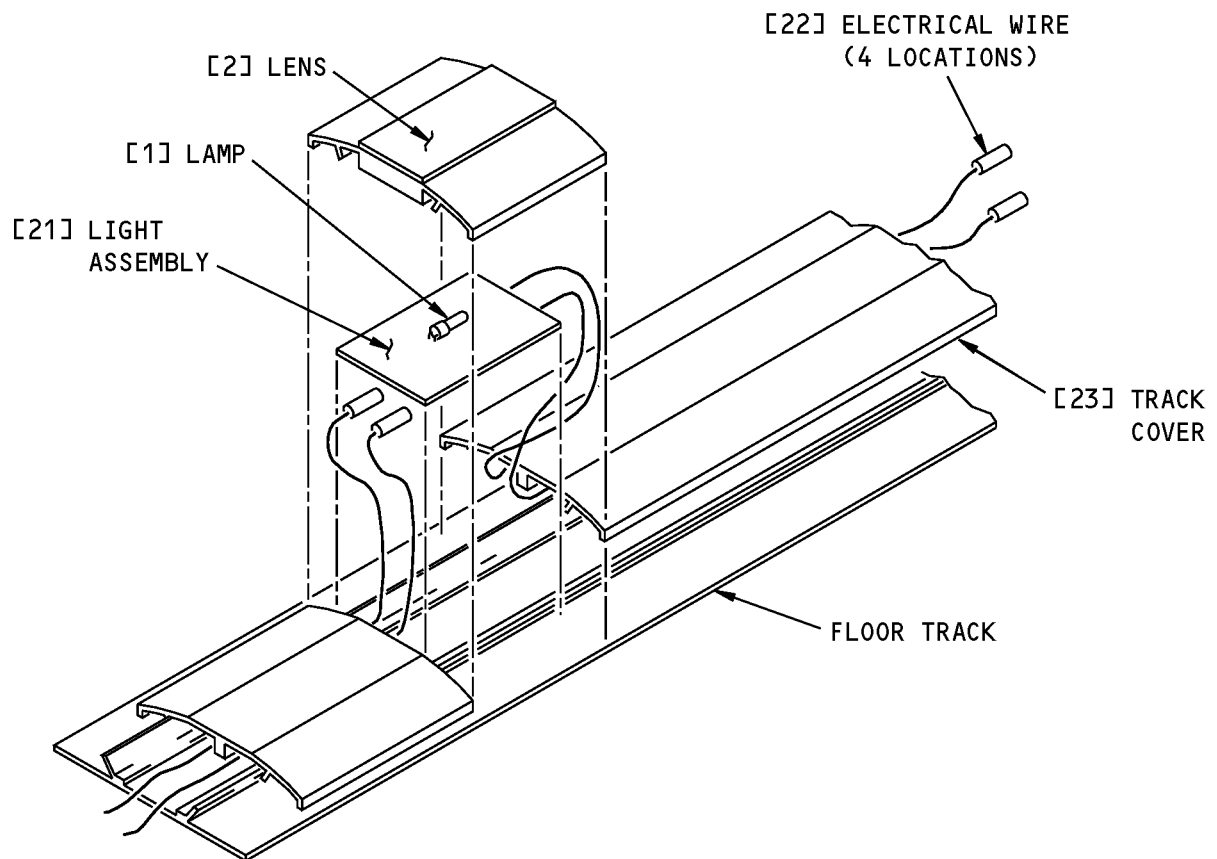
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33-51-12

Page 207
Jun 10/2007



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



FLOOR PROXIMITY LIGHT
(EXAMPLE)

A

Floor Proximity Light - Light Assembly Replacement
Figure 202 (Sheet 2 of 2)/33-51-12-990-802

EFFECTIVITY

HAP 001-013, 015-026, 028-030; AIRPLANES WITH FLOOR-MOUNTED INCANDESCENT LIGHTS

D633A101-HAP

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33-51-12

Page 208
Jun 10/2007



737-600/700/800/900

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
SSM 33-51-21	System Schematics Manual
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 (SSM 33-51-21) (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** —————

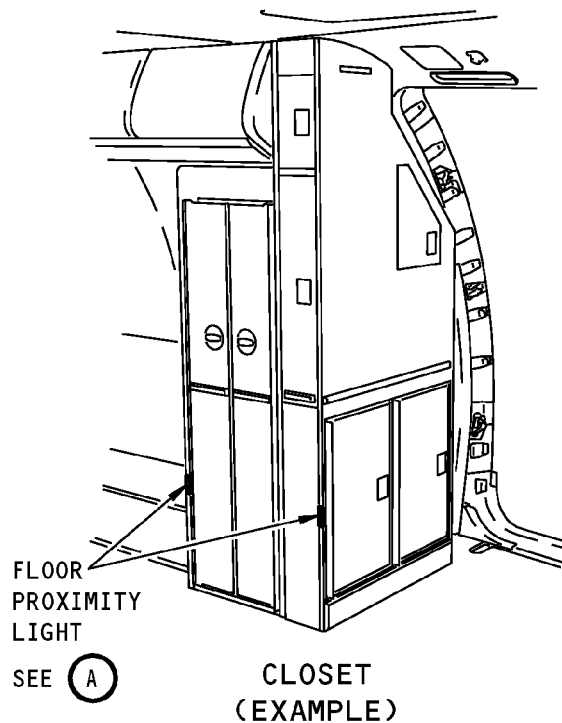
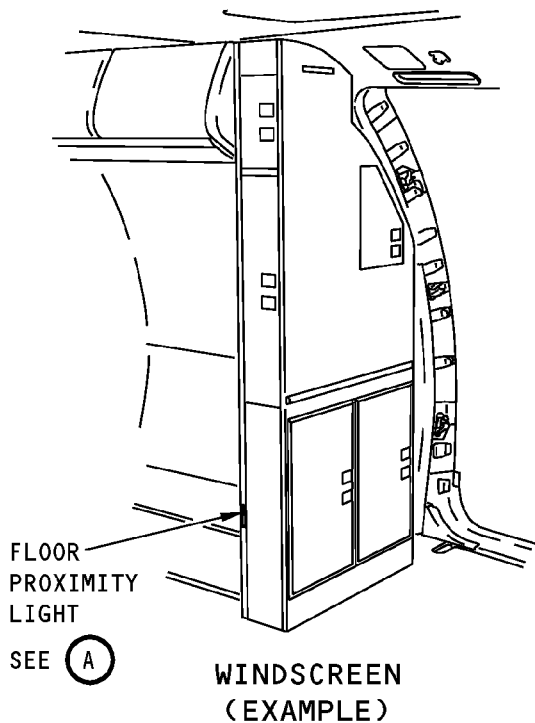
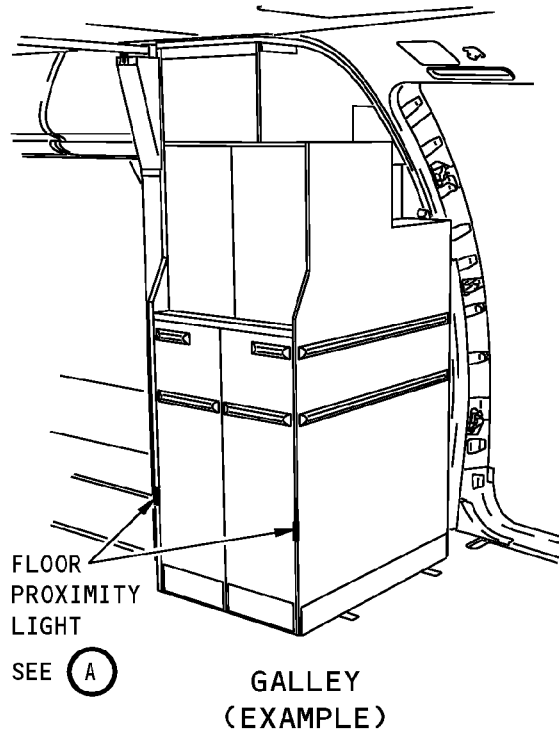
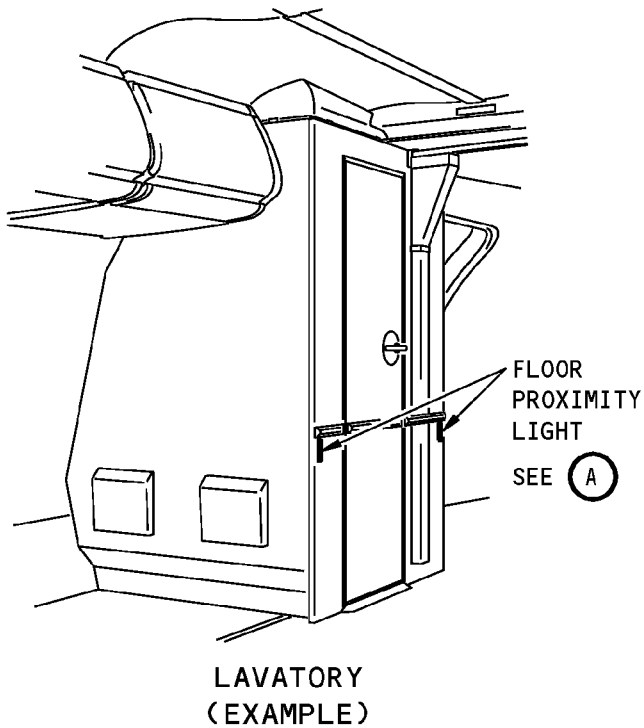
EFFECTIVITY
HAP ALL

33-51-14

Page 201
Feb 10/2004

D633A101-HAP

AIRCRAFT MAINTENANCE MANUAL



Floor Proximity Light - Lamp Replacement
Figure 201 (Sheet 1 of 2)/33-51-14-990-801

EFFECTIVITY
HAP ALL

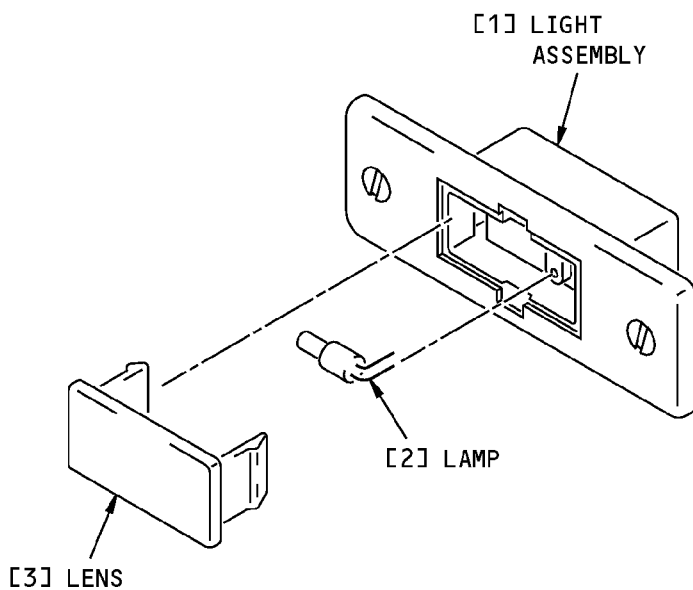
33-51-14

Page 202
Oct 10/2003

D633A101-HAP

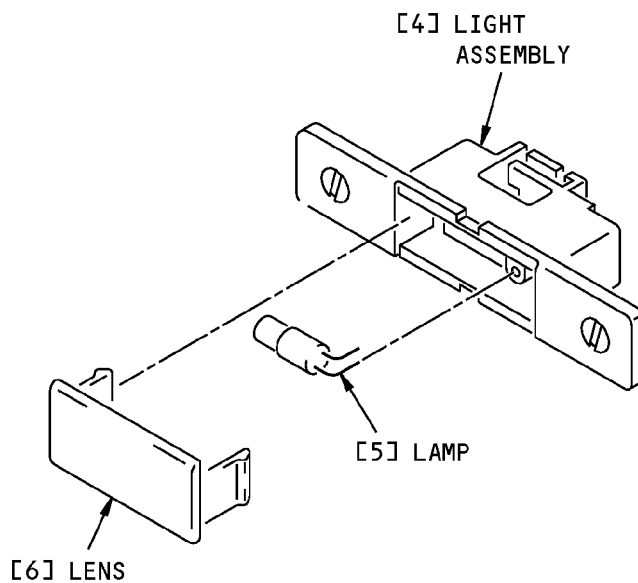


737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL



FLOOR PROXIMITY LIGHT
(EXAMPLE)

A



FLOOR PROXIMITY LIGHT
(EXAMPLE)

A

81000-33901
81000-33801

Floor Proximity Light - Lamp Replacement
Figure 201 (Sheet 2 of 2)/33-51-14-990-801

EFFECTIVITY
HAP ALL

D633A101-HAP

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33-51-14

Page 203
Oct 10/2003



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

TASK 33-51-14-960-802

3. Floor Proximity Light - Light Assembly Replacement

(Figure 202)

A. References

Reference	Title
SSM 33-51-21	System Schematics Manual
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 (SSM 33-51-21) (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** —————

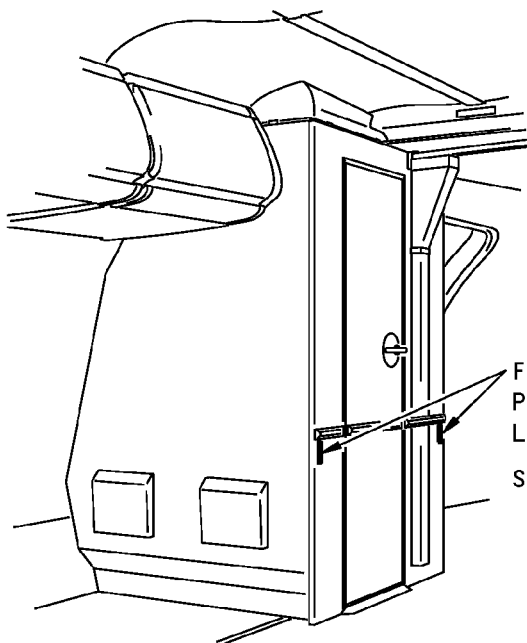
EFFECTIVITY
HAP ALL

33-51-14

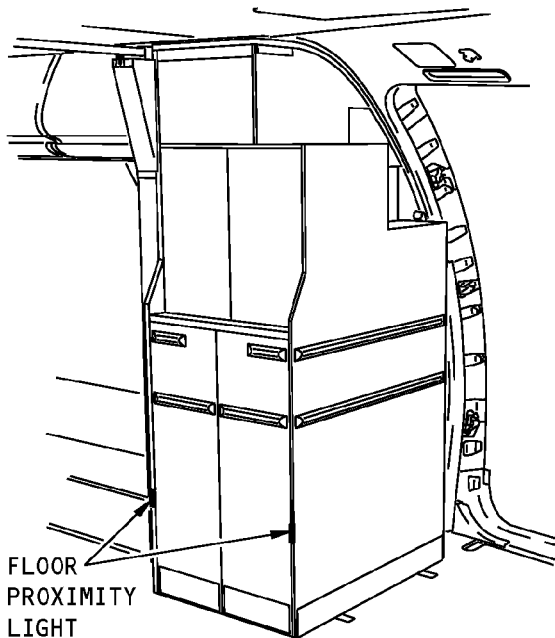
Page 204
Feb 10/2004

D633A101-HAP

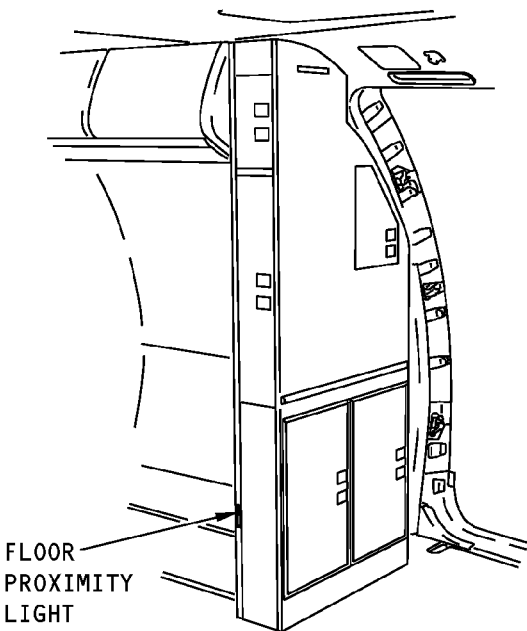
AIRCRAFT MAINTENANCE MANUAL



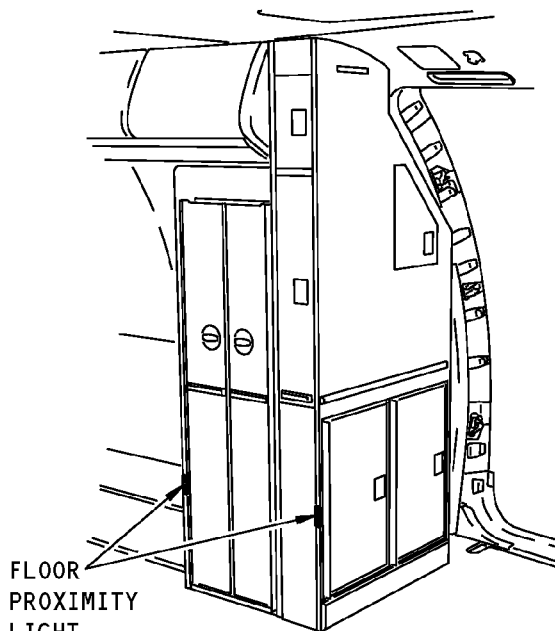
LAVATORY
(EXAMPLE)



GALLEY
(EXAMPLE)



WINDSCREEN
(EXAMPLE)



CLOSET
(EXAMPLE)

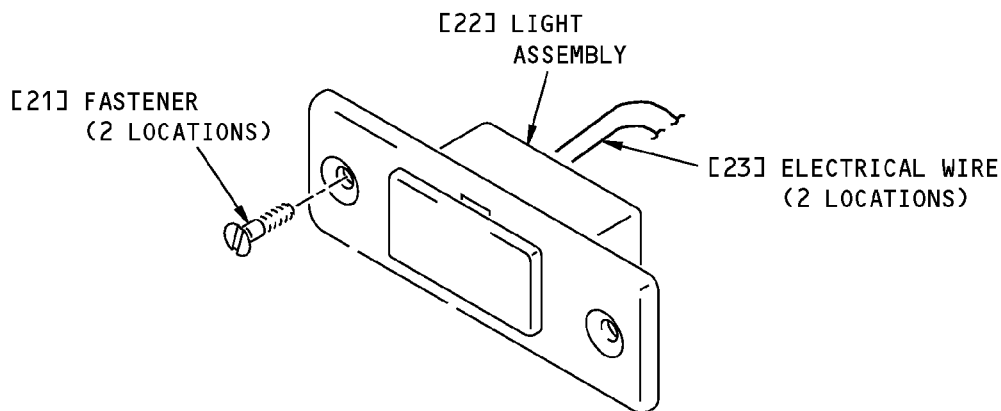
Floor Proximity Light - Light Assembly Replacement
Figure 202 (Sheet 1 of 2)/33-51-14-990-802

EFFECTIVITY
HAP ALL

33-51-14

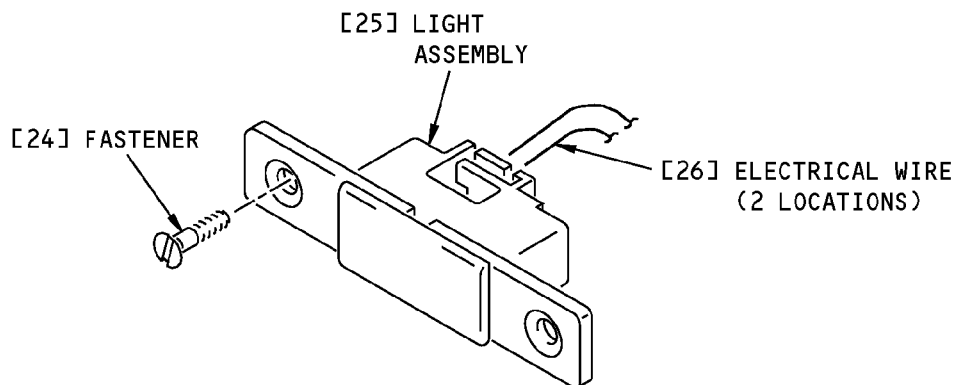


737-600/700/800/900
AIRCRAFT MAINTENANCE MANUAL



FLOOR PROXIMITY LIGHT
(EXAMPLE)

A



FLOOR PROXIMITY LIGHT
(EXAMPLE)

A

81000-33901
81000-33801

Floor Proximity Light - Light Assembly Replacement
Figure 202 (Sheet 2 of 2)/33-51-14-990-802

EFFECTIVITY
HAP ALL

D633A101-HAP

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33-51-14

Page 206
Oct 10/2003



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

FLOOR PROXIMITY LIGHTS, PHOTOLUMINESCENT - MAINTENANCE PRACTICES

1. General

- A. This procedure contains scheduled maintenance task data.
- B. This procedure has these tasks:
 - (1) Floor Proximity Light - Charge the Photoluminescent Strips
 - (2) Floor Proximity Light - Photoluminescent Strip Replacement
 - (3) Floor Proximity Light - Photoluminescent Strip Cleaning
 - (4) Floor Proximity Light - Photoluminescent Strip Inspection
- C. Do not use this procedure for the exit signs that identify the doors and escape hatches.

TASK 33-51-15-860-801

2. Floor Proximity Light - Charge the Photoluminescent Strips

- A. General
 - (1) The photoluminescent strips are energized when light is present. This procedure uses the passenger cabin lights to supply a continuous charge to all sections of the photoluminescent strips.

B. References

Reference	Title
SSM 33-21-11	System Schematics Manual
SSM 33-22-11	System Schematics Manual

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Procedure

SUBTASK 33-51-15-860-001

- (1) Do these steps to charge the photoluminescent strips:
 - (a) At the applicable attendants panel, set the switch for the fluorescent ceiling lights (SSM 33-22-11), and sidewall lights (SSM 33-21-11) to the On or bright mode.

NOTE: Passenger compartment lighting is critical to the performance of the photoluminescent floor proximity system. Use the applicable maintenance procedures to properly maintain these lights.
 - (b) To accomplish the initial charging of the photoluminescent strips, select the scenarios illustrated in (Table 201)

EFFECTIVITY

HAP 031-054, 101-999; AIRPLANES WITH PHOTOLUMI-
NESCENT FLOOR PROXIMITY LIGHTS

33-51-15

Page 201
Feb 15/2009

D633A101-HAP



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

HAP 031-054, 101-999

Table 201/33-51-15-993-803

Charge Scenario	Photoluminescent Duration (Hours)	Remarks
First flight of the day Bins Closed No passengers * 5 minute charge * 10 minute charge * 15 minute charge * 30 minute charge * 45 minute charge	* 4.25 * 8 * 9.5 * 14 * 16	Close overhead bins during charging and 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.
First flight of the day Bins open No Passengers		Cabin activity limited to minor aisle traffic of crew and personnel. Passengers will shadow the system and are not allowed on board during charging.
* 15 minute charge	* 5.75	
* 30 minute charge	* 7.5	

HAP 031-054, 101-999; AIRPLANES WITH PHOTOLUMINESCENT FLOOR PROXIMITY LIGHTS

- (c) Photoluminescent duration can be extended beyond the initial charge, by using the extended charge scenarios illustrated in (Table 202).

NOTE: The Photoluminescent Duration times listed in (Table 202) differ from those listed in (Table 201) because of differences in the charge time starting conditions.

HAP 031-054, 101-999

Table 202/33-51-15-993-804

Charge Scenario	Photoluminescent Duration (Hours)	Remarks
In flight/taxi with cabin lighting on	No limit with ceiling lights on dim or greater	
In flight/taxi with cabin lighting off		Begin charging prior to previous discharge duration.
* 15 minute charge	* 8	
* 30 minute charge	* 11.25	
Ground turn with bin doors open and passengers in seats		Bin doors can be open during charging. Passenger loading and unloading periods cannot be included in the charge time. Passengers can be on the airplane. Begin charging prior to previous discharge duration.
* 15 minute charge	* 6.75	
* 30 minute charge	* 9	

EFFECTIVITY

HAP 031-054, 101-999; AIRPLANES WITH PHOTOLUMINESCENT FLOOR PROXIMITY LIGHTS

33-51-15

Page 202
Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL**HAP 031-054, 101-999 (Continued)**

(Continued)

Charge Scenario	Photoluminescen Duration (Hours)	Remarks
Ground turn with bin doors open and no passengers in seats		Bin doors can be open during charging. Passenger loading and unloading periods cannot be included in the charge time. Passengers cannot be on the airplane. Begin charging prior to previous discharge duration.
* 15 minute charge	* 7.5	
* 30 minute charge	* 10	

HAP 031-054, 101-999; AIRPLANES WITH PHOTOLUMINESCENT FLOOR PROXIMITY LIGHTS**END OF TASK****TASK 33-51-15-960-801****3. Floor Proximity Light - Photoluminescent Strip Replacement****A. General**

- (1) This procedure is a scheduled maintenance task.
- (2) Use this procedure to replace sections or complete lengths of the photoluminescent strips.
 - (a) Replacement strip sections must be a minimum of 18 inches 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
A50038	Adhesive - Fast-setting, 2 Part Epoxy, Medium Viscosity	BMS5-123, Type I, Class 2, Clear
B00083	Solvent - Aliphatic Naphtha (For Acrylic Plastics)	TT-N-95 Type II, ASTM D-3735 Type III
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	BMS15-5
G02129	Tape - Adhesive - Permacel P-29	
G50156	Tape - Carpet, Double-sided, 16 oz/sq. yd., Black	BMS5-133, Type II, Class 2

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:

EFFECTIVITY
**HAP 031-054, 101-999; AIRPLANES WITH PHOTOLUMI-
NESCENT FLOOR PROXIMITY LIGHTS**
33-51-15
 Page 203
 Feb 15/2009

D633A101-HAP



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (a) Use a smooth tool to separate the tape holding the light strip onto the floor panels.
- (b) Remove the old 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) 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) 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 new light strip.
- (f) Apply new tape, G50156, to the floor panel.
- (g) Using the new piece(s) of photoluminescent strip as a guide, mark the tape, G50156 where the ends of the strip will be located.
- (h) Place small lateral strips of 3/4-inch wide Permacel P-29 tape, G02129 on top of the tape, G50156 so that none of that tape or any floor panel is visible between the strips.
- (i) 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 inch gap between the new strip and the adjoining strip.
 - 2) At all other locations, maintain a 0.10 inch gap between the new strip and existing strips.
- (j) Press the strip down firmly along its length to attach it in place.

————— **END OF TASK** —————

TASK 33-51-15-100-801

4. Floor Proximity Light - Photoluminescent Strip Cleaning

A. Consumable Materials

Reference	Description	Specification
B00083	Solvent - Aliphatic Naphtha (For Acrylic Plastics)	TT-N-95 Type II, ASTM D-3735 Type III
B00541	Cleaner - General Purpose Household Detergent	

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Procedure

SUBTASK 33-51-15-100-001

- (1) Do this task to clean installed photoluminescent strips.

EFFECTIVITY
HAP 031-054, 101-999; AIRPLANES WITH PHOTOLUMI-
NESCENT FLOOR PROXIMITY LIGHTS

D633A101-HAP

33-51-15

Page 204
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- (a) Use a cloth dampened with general purpose household detergent cleaner, B00541, and water and wipe the strips.
- (b) If a stronger cleaner is required, use a cloth dampened with solvent, B00083, and wipe the strips.

————— 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) There can be no more than 5 inches of any 6 foot section that will not give out light.
 - (b) If the strips are dirty, do this task: Floor Proximity Light - Photoluminescent Strip Cleaning, TASK 33-51-15-100-801.
 - (c) 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

HAP 031-054, 101-999; AIRPLANES WITH PHOTOLUMI-
NESCENT FLOOR PROXIMITY LIGHTS

D633A101-HAP

33-51-15

Page 205
Feb 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

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)

A. General

- (1) This procedure is a scheduled maintenance task.
- (2) 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.
- (3) Depending on the type of light-meter selected, these conversion factors will allow readings in Foot-Candles (Fc) or Lux to be used:
 - (a) $Fc \times 10.764 = \text{Lux}$
 - (b) $\text{Lux} \times 0.0929 = Fc$

B. References

Reference	Title
33-51-15-860-801	Floor Proximity Light - Charge the Photoluminescent Strips (P/B 201)
SSM 33-21-11	System Schematics Manual
SSM 33-22-11	System Schematics Manual

C. Tools/Equipment

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

Reference	Description
COM-11030	sensor - Illuminance (Photometric) (Part #: MODEL 211, Supplier: \$1183, A/P Effectivity: 737-600, -700, -700C, -700ER, -700QC, -800, -900, -900ER, -BBJ)
COM-11031	Meter - Light, Handheld (Photometer) (Part #: MODEL S471, Supplier: \$1183, A/P Effectivity: 737-600, -700, -700C, -700ER, -700QC, -800, -900, -900ER, -BBJ)

D. Consumable Materials

Reference	Description	Specification
G00270	Tape - Scotch Flatback Masking 250	ASTM D6123 (Supersedes A-A-883)

E. Location Zones

Zone	Area
200	Upper Half of Fuselage

EFFECTIVITY
HAP 031-054, 101-999; AIRPLANES WITH PHOTOLUMI-
NESCENT FLOOR PROXIMITY LIGHTS

D633A101-HAP

33-51-15

Page 501
Jun 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

F. 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).

- 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.
- 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.

- (d) Make several copies of (Figure 502) to use for recording data at each measurement point.

- (e) Set the lights for the cabin light level test:

NOTE: You will notice that the lights activated for this test differ from those in (Floor Proximity Light - Charge the Photoluminescent Strips, TASK 33-51-15-860-801). This test uses only the overhead lights to assure that they can charge the system by themselves.

- 1) At the applicable attendants panel, set the switch for the fluorescent ceiling lights (SSM 33-22-11) to the on or bright mode.
- 2) At the applicable attendants panel, set the switch for the window or sidewall lights (SSM 33-21-11) to the off mode.
- 3) Set all reading lights to the off mode.
- 4) Close all window shades, lavatory doors, cabin egress doors, and all overhead bin doors.

- (f) Maintain the above conditions for 30 minutes minimum to stabilize the light source.

SUBTASK 33-51-15-860-005

(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:

- 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:

EFFECTIVITY

HAP 031-054, 101-999; AIRPLANES WITH PHOTOLUMI-
NESCENT FLOOR PROXIMITY LIGHTS

D633A101-HAP

33-51-15

Page 502
Jun 15/2009



737-600/700/800/900

AIRCRAFT MAINTENANCE MANUAL

- 1) Place the illuminance photometric sensor, COM-11030 on the light strip on one side of the aisle at the point to be measured.
- 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).
- 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.

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.
- (c) Make sure that the average value for each side is 50 Lux (4.645 Fc) minimum.

- 1) If you do not get 50 Lux (4.645 Fc) minimum, clean the light lens or replace the applicable lamp.

SUBTASK 33-51-15-940-001

- (4) Return the airplane to its usual condition.

————— **END OF TASK** —————

EFFECTIVITY

HAP 031-054, 101-999; AIRPLANES WITH PHOTOLUMI-
NESCENT FLOOR PROXIMITY LIGHTS

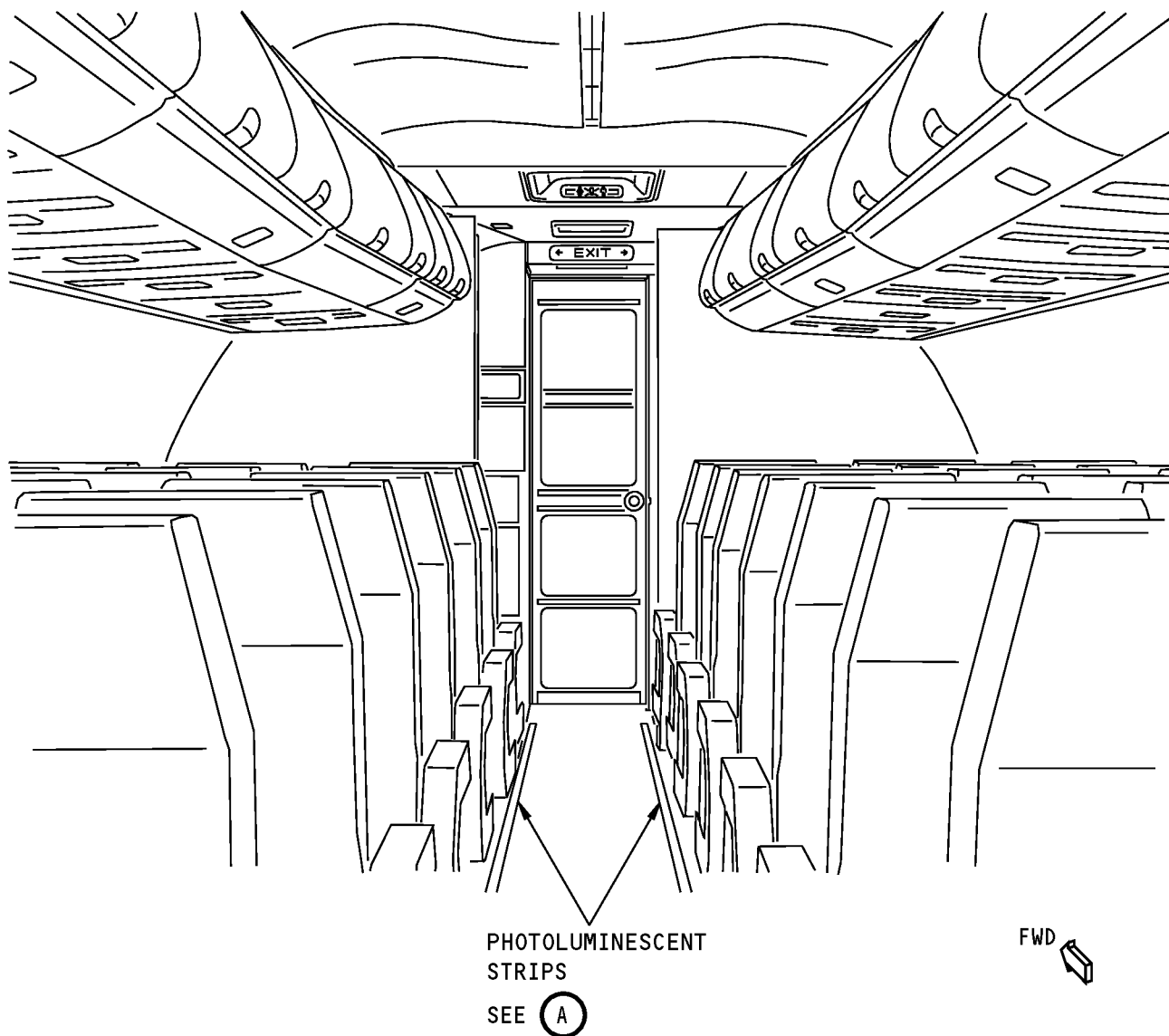
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33-51-15

Page 503
Jun 15/2009



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



PASSENGER COMPARTMENT

Floor Proximity Lights - Cabin Light Intensity Test
Figure 501 (Sheet 1 of 2)/33-51-15-990-801

EFFECTIVITY
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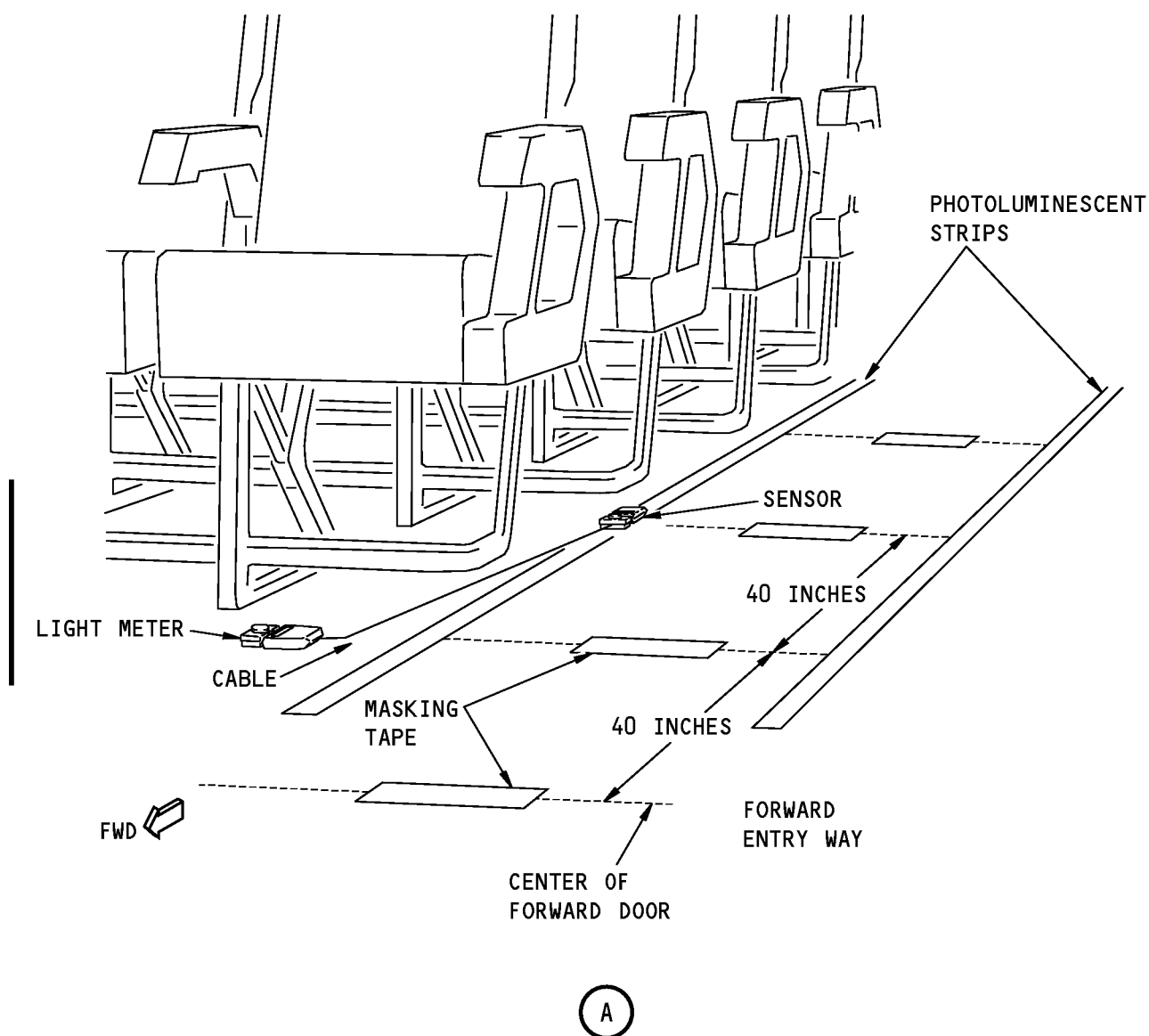
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Page 504
Feb 15/2009



737-600/700/800/900

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Floor Proximity Lights - Cabin Light Intensity Test
Figure 501 (Sheet 2 of 2)/33-51-15-990-801

EFFECTIVITY

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33-51-15

Page 505
Jun 15/2009

737-600/700/800/900

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DATA SHEET

Floor Proximity Lights - Cabin Light Intensity Test Light Meter Readings
Figure 502/33-51-15-990-802

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33-51-15

Page 506
Feb 15/2009