

**CHAPTER**

**33**

**LIGHTS**

# MD-80 AIRCRAFT MAINTENANCE MANUAL

## CHAPTER 33 LIGHTS

Subject/Page	Date	COC	Subject/Page	Date	COC	Subject/Page	Date	COC
33-EFFECTIVE PAGES			33-10-00			33-12-00 (cont)		
1 thru 6	AUG 01/2016		201	Feb 01/2016		5	Feb 01/2016	
33-CONTENTS			202	Feb 01/2016		6	Feb 01/2016	
1	Feb 01/2016		203	Feb 01/2016		7	Feb 01/2016	
2	Feb 01/2016		204	Feb 01/2015		8	Feb 01/2015	
3	Feb 01/2016		205	Feb 01/2015		9	Feb 01/2015	
4	Feb 01/2016		206	Feb 01/2015		10	Feb 01/2016	
5	Feb 01/2016		207	Feb 01/2015		11	Feb 01/2015	
6	Feb 01/2016		208	Feb 01/2016		12	Feb 01/2015	
33-00-00			209	Feb 01/2015		13	Feb 01/2016	
1	Feb 01/2015		210	Feb 01/2016		14	Feb 01/2015	
2	BLANK		211	Feb 01/2015		15	Feb 01/2016	
33-00-00			212	BLANK		16	Feb 01/2015	
101	Feb 01/2015		33-11-00			17	Feb 01/2015	
102	BLANK		1	Feb 01/2015		18	Feb 01/2015	
33-00-00			2	BLANK		19	Feb 01/2015	
201	Feb 01/2015		33-11-01			20	Feb 01/2016	
202	Feb 01/2015		201	Feb 01/2015		21	Feb 01/2016	
203	Feb 01/2015		202	Feb 01/2015		22	Feb 01/2016	
204	Feb 01/2015		203	Feb 01/2015		23	Feb 01/2016	
33-10-00			204	Feb 01/2015		24	Feb 01/2016	
1	Feb 01/2015		33-11-02			25	Feb 01/2016	
2	Feb 01/2015		1	Feb 01/2015		26	Feb 01/2016	
3	Feb 01/2015		2	Feb 01/2015		33-12-00 Config 1		
4	Feb 01/2016		33-11-02			201	Feb 01/2016	
5	Feb 01/2016		401	Feb 01/2016		202	BLANK	
6	Feb 01/2015		402	Feb 01/2016		33-12-00 Config 2		
7	Feb 01/2015		403	Feb 01/2016		201	Feb 01/2016	
8	Feb 01/2015		404	Feb 01/2015		202	Feb 01/2016	
9	Feb 01/2015		33-11-02			203	Feb 01/2016	
10	Feb 01/2015		601	Feb 01/2015		204	Feb 01/2016	
11	Feb 01/2016		602	BLANK		33-12-01 Config 1		
12	Feb 01/2016		33-12-00			201	Feb 01/2016	
13	Feb 01/2016		1	Feb 01/2016		202	Feb 01/2016	
14	Feb 01/2016		2	Feb 01/2016		203	Feb 01/2016	
15	Feb 01/2016		3	Feb 01/2016		204	BLANK	
16	Feb 01/2016		4	Feb 01/2016				

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

## 33-EFFECTIVE PAGES

# MD-80 AIRCRAFT MAINTENANCE MANUAL

## CHAPTER 33 LIGHTS

Subject/Page	Date	COC	Subject/Page	Date	COC	Subject/Page	Date	COC
33-12-01	Config 2		33-21-00	(cont)		33-21-05		
201	Feb 01/2016		19	Feb 01/2016		501	Feb 01/2016	
202	Feb 01/2016		20	Feb 01/2016		502	BLANK	
203	Feb 01/2016		21	Feb 01/2016		33-21-06		
204	Feb 01/2016		22	Feb 01/2016		401	Feb 01/2015	
33-12-02			23	Feb 01/2016		402	BLANK	
201	Feb 01/2015		24	Feb 01/2016		33-22-00		
202	Feb 01/2015		25	Feb 01/2016		1	Feb 01/2016	
203	Feb 01/2015		26	Feb 01/2016		2	Feb 01/2016	
204	Feb 01/2015		27	Feb 01/2016		3	Feb 01/2016	
33-12-04			28	Feb 01/2016		4	Feb 01/2016	
201	Feb 01/2015		33-21-03			5	Feb 01/2016	
202	Feb 01/2015		201	Feb 01/2016		6	Feb 01/2016	
203	Feb 01/2015		202	Feb 01/2016		7	Feb 01/2016	
204	BLANK		203	Feb 01/2015		8	BLANK	
33-20-00			204	Feb 01/2016		33-22-01		
1	Feb 01/2015		205	Feb 01/2016		201	Feb 01/2015	
2	BLANK		206	Feb 01/2015		202	Feb 01/2016	
33-21-00			207	Feb 01/2015		203	Feb 01/2016	
1	Feb 01/2016		208	Feb 01/2016		204	Feb 01/2015	
2	Feb 01/2016		209	Feb 01/2015		205	Feb 01/2015	
3	Feb 01/2016		210	Feb 01/2015		206	Feb 01/2015	
4	Feb 01/2016		33-21-04			207	Feb 01/2015	
5	Feb 01/2016		401	Feb 01/2016		208	Feb 01/2015	
6	Feb 01/2016		402	Feb 01/2016		33-22-02		
7	Feb 01/2016		403	Feb 01/2016		201	Feb 01/2016	
8	Feb 01/2016		404	BLANK		202	Feb 01/2016	
9	Feb 01/2016		33-21-04			203	Feb 01/2016	
10	Feb 01/2016		501	Feb 01/2016		204	Feb 01/2015	
11	Feb 01/2016		502	BLANK		33-22-03		
12	Feb 01/2016		33-21-05			201	Feb 01/2015	
13	Feb 01/2016		401	Feb 01/2016		202	Feb 01/2015	
14	Feb 01/2016		402	Feb 01/2016		203	Feb 01/2015	
15	Feb 01/2016		403	Feb 01/2015		204	Feb 01/2015	
16	Feb 01/2016		404	Feb 01/2015		205	Feb 01/2015	
17	Feb 01/2016		405	Feb 01/2015		206	BLANK	
18	Feb 01/2016		406	Feb 01/2015				

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

## 33-EFFECTIVE PAGES

# MD-80 AIRCRAFT MAINTENANCE MANUAL

## CHAPTER 33 LIGHTS

Subject/Page	Date	COC	Subject/Page	Date	COC	Subject/Page	Date	COC
33-23-00			33-23-02 Config 1 (cont)			33-30-00 (cont)		
1	Feb 01/2016		208	Feb 01/2016		5	Feb 01/2016	
2	Feb 01/2016		209	Feb 01/2016		6	Feb 01/2016	
3	Feb 01/2016		210	BLANK		33-30-00		
4	Feb 01/2016		33-23-02 Config 2			201	Feb 01/2015	
5	Feb 01/2016		201	Feb 01/2016		202	Feb 01/2015	
6	Feb 01/2016		202	Feb 01/2016		203	Feb 01/2015	
7	Feb 01/2016		203	Feb 01/2016		204	Feb 01/2015	
8	Feb 01/2016		204	Feb 01/2016		205	Feb 01/2015	
9	Feb 01/2016		205	Feb 01/2016		206	Feb 01/2015	
10	Feb 01/2016		206	Feb 01/2016		207	Feb 01/2015	
11	Feb 01/2016		207	Feb 01/2016		208	Feb 01/2015	
12	Feb 01/2016		208	Feb 01/2016		33-30-00		
13	Feb 01/2016		209	Feb 01/2016		501	Feb 01/2015	
14	Feb 01/2016		210	Feb 01/2016		502	BLANK	
15	Feb 01/2016		33-23-02 Config 3			33-40-00		
16	BLANK		201	Feb 01/2016		1	Feb 01/2016	
33-23-01			202	Feb 01/2016		2	Feb 01/2016	
401	Feb 01/2016		203	Feb 01/2016		3	Feb 01/2016	
402	Feb 01/2016		204	Feb 01/2016		4	Feb 01/2015	
403	Feb 01/2016		205	Feb 01/2016		5	Feb 01/2016	
404	Feb 01/2016		206	Feb 01/2016		6	Feb 01/2016	
405	Feb 01/2016		207	Feb 01/2016		7	Feb 01/2016	
406	Feb 01/2015		208	Feb 01/2016		8	Feb 01/2015	
407	Feb 01/2015		33-23-03			9	Feb 01/2015	
408	BLANK		401	Feb 01/2015		10	BLANK	
33-23-01			402	Feb 01/2015		33-41-00		
501	Feb 01/2016		403	Feb 01/2015		1	Feb 01/2015	
502	Feb 01/2016		404	Feb 01/2015		2	Feb 01/2015	
33-23-02 Config 1			33-23-03			3	Feb 01/2015	
201	Feb 01/2016		601	Feb 01/2016		4	BLANK	
202	Feb 01/2016		602	BLANK		33-41-01		
203	Feb 01/2016		33-30-00			401	Feb 01/2015	
204	Feb 01/2016		1	Feb 01/2016		402	Feb 01/2015	
205	Feb 01/2016		2	Feb 01/2016		403	Feb 01/2015	
206	Feb 01/2016		3	Feb 01/2016		404	Feb 01/2015	
207	Feb 01/2016		4	Feb 01/2016		405	Feb 01/2015	

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## 33-EFFECTIVE PAGES



# MD-80 AIRCRAFT MAINTENANCE MANUAL

## CHAPTER 33 LIGHTS

Subject/Page	Date	COC	Subject/Page	Date	COC	Subject/Page	Date	COC
33-41-01 (cont)			33-41-03 (cont)			33-43-01 Config 1 (cont)		
406	Feb 01/2015		403	Feb 01/2015		210	Feb 01/2016	
407	Feb 01/2015		404	BLANK		211	Feb 01/2016	
408	Feb 01/2015		33-42-00			212	Feb 01/2016	
409	Feb 01/2015		1	Feb 01/2015		213	Feb 01/2016	
410	BLANK		2	BLANK		214	Feb 01/2016	
33-41-01 Config 1			33-42-01			215	Feb 01/2016	
401	Feb 01/2015		201	Feb 01/2015		216	Feb 01/2016	
402	BLANK		202	Feb 01/2015		217	Feb 01/2016	
33-41-01			203	Feb 01/2015		218	Feb 01/2016	
501	Feb 01/2015		204	Feb 01/2015		219	Feb 01/2016	
502	Feb 01/2015		205	Feb 01/2016		220	Feb 01/2016	
33-41-02			206	Feb 01/2015		33-43-01 Config 3		
301	Feb 01/2015		207	Feb 01/2015		201	Feb 01/2015	C
302	Feb 01/2015		208	Feb 01/2015		202	Feb 01/2015	C
303	Feb 01/2015		209	Feb 01/2015		203	Feb 01/2015	C
304	BLANK		210	Feb 01/2015		204	Feb 01/2015	C
33-41-02			211	Feb 01/2015		205	Feb 01/2015	C
401	Feb 01/2015		212	BLANK		206	Feb 01/2015	C
402	Feb 01/2015		33-42-01			207	Feb 01/2015	C
403	Feb 01/2015		501	Feb 01/2015		208	Feb 01/2015	C
404	Feb 01/2015		502	BLANK		209	Feb 01/2015	C
405	Feb 01/2015		33-43-00			210	Feb 01/2015	C
406	BLANK		1	Feb 01/2015		211	Feb 01/2015	C
33-41-02			2	Feb 01/2015		212	Feb 01/2015	C
501	Feb 01/2015		3	Feb 01/2015		213	Feb 01/2015	C
502	Feb 01/2016		4	BLANK		214	Feb 01/2015	C
503	Feb 01/2016		33-43-01 Config 1			215	Feb 01/2015	C
504	Feb 01/2016		201	Feb 01/2016		216	Feb 01/2015	C
505	Feb 01/2015		202	Feb 01/2016		33-43-01		
506	BLANK		203	Feb 01/2016		501	Feb 01/2016	
33-41-02			204	Feb 01/2016		502	Feb 01/2016	
601	Feb 01/2015		205	Feb 01/2016		33-43-01		
602	Feb 01/2015		206	Feb 01/2016		601	Feb 01/2015	
33-41-03			207	Feb 01/2016		602	Feb 01/2016	
401	Feb 01/2015		208	Feb 01/2016		603	Feb 01/2015	
402	Feb 01/2015		209	Feb 01/2016		604	BLANK	

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## 33-EFFECTIVE PAGES

# MD-80 AIRCRAFT MAINTENANCE MANUAL

## CHAPTER 33 LIGHTS

Subject/Page	Date	COC	Subject/Page	Date	COC	Subject/Page	Date	COC
33-43-01			33-44-00 (cont)			33-47-00 (cont)		
801	Feb 01/2015		207	Feb 01/2015		214	BLANK	
802	Feb 01/2015		208	Feb 01/2015		33-50-00		
803	Feb 01/2015		209	Feb 01/2015		1	Feb 01/2016	
804	Feb 01/2015		210	Feb 01/2015		2	Feb 01/2016	
805	Feb 01/2015		33-45-00			3	Feb 01/2016	
806	Feb 01/2015		1	Feb 01/2015		4	Feb 01/2016	
807	Feb 01/2015		2	BLANK		5	Feb 01/2016	
808	Feb 01/2015		33-45-00			6	Feb 01/2016	
809	Feb 01/2015		401	Feb 01/2015		7	Feb 01/2016	
810	Feb 01/2015		402	Feb 01/2015		8	BLANK	
811	Feb 01/2015		33-45-00			33-51-00		
812	Feb 01/2015		501	Feb 01/2015		1	Feb 01/2015	
813	Feb 01/2016		502	BLANK		2	Feb 01/2015	
814	Feb 01/2016		33-46-00			33-51-00		
33-43-02			1	Feb 01/2015		501	Feb 01/2015	
201	Feb 01/2015		2	BLANK		502	Feb 01/2015	
202	Feb 01/2016		33-46-00			33-51-00 Config 1		
203	Feb 01/2015		201	Feb 01/2015		501	Feb 01/2015	
204	BLANK		202	Feb 01/2015		502	Feb 01/2015	
33-43-02			33-47-00			503	Feb 01/2016	
401	Feb 01/2015		1	Feb 01/2016		504	BLANK	
402	Feb 01/2015		2	BLANK		33-52-00		
403	Feb 01/2015		33-47-00			1	Feb 01/2015	
404	Feb 01/2015		201	Feb 01/2016		2	Feb 01/2015	
405	Feb 01/2015		202	Feb 01/2016		33-52-00		
406	Feb 01/2015		203	Feb 01/2016		501	Feb 01/2016	
33-44-00			204	Feb 01/2016		502	BLANK	
1	Feb 01/2015		205	Feb 01/2016		33-53-00		
2	BLANK		206	Feb 01/2016		1	Feb 01/2016	
33-44-00			207	Feb 01/2015		2	Feb 01/2015	
201	Feb 01/2015		208	Feb 01/2016		3	Feb 01/2015	
202	Feb 01/2015		209	Feb 01/2016		4	Feb 01/2016	
203	Feb 01/2015		210	Feb 01/2016		5	Feb 01/2016	
204	Feb 01/2015		211	Feb 01/2016		6	Feb 01/2015	
205	Feb 01/2015		212	Feb 01/2016		7	Feb 01/2016	
206	Feb 01/2015		213	Feb 01/2016		8	Feb 01/2016	

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## 33-EFFECTIVE PAGES

# MD-80 AIRCRAFT MAINTENANCE MANUAL

## CHAPTER 33 LIGHTS

Subject/Page	Date	COC	Subject/Page	Date	COC	Subject/Page	Date	COC
33-53-00			33-53-00 Config 1 (cont)					
401	Feb 01/2016		504	BLANK				
402	Feb 01/2016		33-53-00					
403	Feb 01/2015		601	Feb 01/2016				
404	Feb 01/2015		602	Feb 01/2016				
405	Feb 01/2015		33-53-01 Config 1					
406	Feb 01/2015		1	Feb 01/2016				
407	Feb 01/2016		2	Feb 01/2016				
408	Feb 01/2016		3	Feb 01/2016				
409	Feb 01/2016		4	BLANK				
410	Feb 01/2016		33-53-01					
411	Feb 01/2016		401	Feb 01/2016				
412	Feb 01/2016		402	Feb 01/2016				
413	Feb 01/2016		403	Feb 01/2016				
414	Feb 01/2015		404	Feb 01/2016				
33-53-00 Config 1			33-53-01 Config 1					
401	Feb 01/2015		501	Feb 01/2016				
402	BLANK		502	Feb 01/2016				
33-53-00			33-53-01 Config 2					
501	Feb 01/2016		501	Feb 01/2016				
502	Feb 01/2016		502	BLANK				
503	Feb 01/2016							
504	Feb 01/2016							
505	Feb 01/2016							
506	Feb 01/2016							
507	Feb 01/2015							
508	Feb 01/2016							
509	Feb 01/2016							
510	Feb 01/2016							
511	Feb 01/2016							
512	Feb 01/2015							
513	Feb 01/2015							
514	BLANK							
33-53-00 Config 1								
501	Feb 01/2015							
502	Feb 01/2016							
503	Feb 01/2015							

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

## 33-EFFECTIVE PAGES

# MD-80 AIRCRAFT MAINTENANCE MANUAL

## CHAPTER 33 LIGHTS

<u>SUBJECT</u>	<u>CHAPTER SECTION</u>	<u>CONF</u>	<u>PAGE</u>	<u>EFFECT</u>
<u>GENERAL - DESCRIPTION AND OPERATION</u>	33-00-00		1	WJE ALL
<u>GENERAL-TROUBLE SHOOTING</u>	33-00-00		101	WJE ALL
<u>GENERAL - MAINTENANCE PRACTICES</u>	33-00-00		201	WJE ALL
<u>FLIGHT COMPARTMENT - DESCRIPTION AND OPERATION</u>	33-10-00		1	WJE ALL
<u>FLIGHT COMPARTMENT LIGHTS - MAINTENANCE PRACTICES</u>	33-10-00		201	WJE ALL
<u>CONTROL PANEL LIGHTING - DESCRIPTION AND OPERATION</u>	33-11-00		1	WJE ALL
<u>LIGHTPLATES - MAINTENANCE PRACTICES</u>	33-11-01		201	WJE ALL
<u>LIGHTING CONTROL PANELS - DESCRIPTION AND OPERATION</u>	33-11-02		1	WJE ALL
<u>LIGHTING CONTROL PANELS - REMOVAL/INSTALLATION</u>	33-11-02		401	WJE ALL
<u>LIGHTING CONTROL PANELS - CHECK</u>	33-11-02		601	WJE ALL
<u>MASTER WARNING AND CAUTION SYSTEM - DESCRIPTION AND OPERATION</u>	33-12-00		1	WJE ALL
<u>MASTER WARNING AND CAUTION SYSTEM - MAINTENANCE PRACTICES</u>	33-12-00	1	201	WJE 405, 407-409, 411, 416, 420, 422, 424-427, 429, 861, 862, 868, 873-876, 880, 881, 883, 884, 891-893
<u>MASTER WARNING AND CAUTION SYSTEM - MAINTENANCE PRACTICES</u>	33-12-00	2	201	WJE 401-404, 406, 410, 412, 414, 415, 417-419, 421, 423, 863-866, 869, 871, 872, 877-879, 886, 887
<u>MASTER WARNING AND CAUTION SYSTEM (MWACS) ANNUNCIATOR PANEL- MAINTENANCE PRACTICES</u>	33-12-01	1	201	WJE 405, 407-411, 416, 420, 422, 424-427, 429, 861, 862, 868, 873-876, 880, 881, 883, 884, 891-893
<u>MASTER WARNING AND CAUTION SYSTEM (MWACS) ANNUNCIATOR PANEL-MAINTENANCE PRACTICES</u>	33-12-01	2	201	WJE 401-404, 406, 412, 414, 415, 417-419, 421, 423, 863-866, 869, 871, 872, 875-879, 886, 887
<u>MASTER WARNING AND CAUTION SYSTEM (MWACS) CONTROLLER - MAINTENANCE PRACTICES</u>	33-12-02		201	WJE ALL

## 33-CONTENTS

# MD-80 AIRCRAFT MAINTENANCE MANUAL

## CHAPTER 33 LIGHTS

<u>SUBJECT</u>	<u>CHAPTER SECTION</u>	<u>CONF</u>	<u>PAGE</u>	<u>EFFECT</u>
<u>MASTER WARNING AND MASTER CAUTION LIGHT - MAINTENANCE PRACTICES</u>	33-12-04		201	WJE ALL
<u>PASSENGER COMPARTMENTS - DESCRIPTION AND OPERATION</u>	33-20-00		1	WJE ALL
<u>CABIN LIGHTS - DESCRIPTION AND OPERATION</u>	33-21-00		1	WJE ALL
<u>CABIN SIDEWALL LIGHTS - MAINTENANCE PRACTICES</u>	33-21-03		201	WJE ALL
<u> AISLE LIGHTS - REMOVAL/INSTALLATION</u>	33-21-04		401	WJE ALL
<u> AISLE LIGHTS - ADJUSTMENT/TEST</u>	33-21-04		501	WJE ALL
<u> DOOR AND ENTRANCE LIGHTS - REMOVAL/INSTALLATION</u>	33-21-05		401	WJE ALL
<u> DOOR AND ENTRANCE LIGHTS - ADJUSTMENT/TEST</u>	33-21-05		501	WJE ALL
<u> READING LIGHTS - REMOVAL/INSTALLATION</u>	33-21-06		401	WJE ALL
<u> UTILITY AND WORK LIGHTS - DESCRIPTION AND OPERATION</u>	33-22-00		1	WJE ALL
<u> UTILITY LIGHTS - MAINTENANCE PRACTICES</u>	33-22-01		201	WJE ALL
<u> WORK LIGHTS - MAINTENANCE PRACTICES</u>	33-22-02		201	WJE ALL
<u> UTILITY AND WORK LIGHTS CIRCUIT COMPONENTS - MAINTENANCE PRACTICES</u>	33-22-03		201	WJE ALL
<u> LIGHTED SIGNS, CABIN PANELS, AND CALL SYSTEMS - DESCRIPTION AND OPERATION</u>	33-23-00		1	WJE ALL
<u> LIGHTED SIGNS - REMOVAL/INSTALLATION</u>	33-23-01		401	WJE ALL
<u> LIGHTED SIGNS - ADJUSTMENT/TEST</u>	33-23-01		501	WJE ALL
<u> CABIN PANELS - MAINTENANCE PRACTICES</u>	33-23-02	1	201	WJE 405, 409, 416, 420, 422, 424-427, 429, 861, 862, 868, 873-879, 884, 891
<u> CABIN PANELS - MAINTENANCE PRACTICES</u>	33-23-02	2	201	WJE 401-404, 406-408, 410-412, 414, 415, 417-419, 421, 423, 863-866, 869, 871, 872, 880, 881, 883, 892, 893
<u> CABIN PANELS - MAINTENANCE PRACTICES</u>	33-23-02	3	201	WJE 886, 887
<u> CALL SYSTEM COMPONENTS - REMOVAL/INSTALLATION</u>	33-23-03		401	WJE ALL

## 33-CONTENTS

# MD-80 AIRCRAFT MAINTENANCE MANUAL

## CHAPTER 33 LIGHTS

<u>SUBJECT</u>	<u>CHAPTER SECTION</u>	<u>CONF</u>	<u>PAGE</u>	<u>EFFECT</u>
<u>CALL SYSTEM COMPONENTS - CHECK</u>	33-23-03		601	WJE ALL
<u>CARGO AND SERVICE COMPARTMENT LIGHTS - DESCRIPTION AND OPERATION</u>	33-30-00		1	WJE ALL
<u>CARGO AND SERVICE COMPARTMENT LIGHTS - MAINTENANCE PRACTICES</u>	33-30-00		201	WJE ALL
<u>CARGO AND SERVICE COMPARTMENT LIGHTS - ADJUSTMENT/TEST</u>	33-30-00		501	WJE ALL
Operational Check of the Main Wheel Well Lights Using the Cabin Floor Switch TASK 33-30-00-710-801			501	WJE ALL
<u>EXTERIOR LIGHTS - DESCRIPTION AND OPERATION</u>	33-40-00		1	WJE ALL
<u>LANDING AND TAXI LIGHTS - DESCRIPTION AND OPERATION</u>	33-41-00		1	WJE ALL
<u>NOSEGEAR LANDING AND TAXI LIGHTS - REMOVAL/INSTALLATION</u>	33-41-01		401	WJE ALL
<u>NOSEGEAR LANDING AND TAXI LIGHTS - ADJUSTMENT/TEST</u>	33-41-01		501	WJE ALL
<u>NOSE GEAR LANDING/TAXI LIGHT SWITCH - REMOVAL/INSTALLATION</u>	33-41-01	1	401	WJE ALL
Nose Gear Landing/Taxi Light Switch Replacement TASK 33-41-01-901-801		1	401	WJE ALL
<u>WING LANDING LIGHTS SECTOR GEAR WORM PINION - SERVICING</u>	33-41-02		301	WJE ALL
Lubrication of the Wing Landing Lights Sector Gear Worm Pinion TASK 33-41-02-640-801			301	WJE ALL
<u>WING LANDING LIGHTS - REMOVAL/INSTALLATION</u>	33-41-02		401	WJE ALL
<u>WING LANDING LIGHTS - ADJUSTMENT/TEST</u>	33-41-02		501	WJE ALL
<u>WING LANDING LIGHTS - CHECK</u>	33-41-02		601	WJE ALL
<u>LANDING AND TAXI LIGHT SWITCHES - REMOVAL/INSTALLATION</u>	33-41-03		401	WJE ALL

## 33-CONTENTS

# MD-80 AIRCRAFT MAINTENANCE MANUAL

## CHAPTER 33 LIGHTS

<u>SUBJECT</u>	<u>CHAPTER SECTION</u>	<u>CONF</u>	<u>PAGE</u>	<u>EFFECT</u>
<u>ANTICOLLISION LIGHTS - DESCRIPTION AND OPERATION</u>	33-42-00		1	WJE ALL
<u>ANTICOLLISION LIGHTS - MAINTENANCE PRACTICES</u>	33-42-01		201	WJE ALL
<u>ANTICOLLISION LIGHTS - ADJUSTMENT/TEST</u>	33-42-01		501	WJE ALL
Operational Check of the Anti-Collision Lights TASK 33-42-01-710-801			501	WJE ALL
<u>FORWARD AND AFT POSITION LIGHTS SYSTEM - DESCRIPTION AND OPERATION</u>	33-43-00		1	WJE ALL
<u>FORWARD AND AFT POSITION LIGHTS - MAINTENANCE PRACTICES</u>	33-43-01	1	201	WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893
<u>FORWARD AND AFT POSITION LIGHTS - MAINTENANCE PRACTICES</u>	33-43-01	3	201	WJE 412, 414
<u>FORWARD AND AFT POSITION LIGHTS - ADJUSTMENT/TEST</u>	33-43-01		501	WJE ALL
Operational Check of the Position Lights TASK 33-43-01-710-801			501	WJE ALL
Operational Check of the Wing Strobe Lights TASK 33-43-01-710-802			501	WJE ALL
<u>FORWARD AND AFT POSITION LIGHTS - INSPECTION CHECK</u>	33-43-01		601	WJE ALL
<u>FORWARD AND AFT POSITION LIGHTS - APPROVED REPAIRS</u>	33-43-01		801	WJE ALL
<u>POSITION LIGHT TRANSFORMERS - MAINTENANCE PRACTICES</u>	33-43-02		201	WJE ALL
<u>FORWARD POSITION LIGHTS ASSEMBLY - REMOVAL/INSTALLATION</u>	33-43-02		401	WJE ALL
<u>GROUND FLOODLIGHTS - DESCRIPTION AND OPERATION</u>	33-44-00		1	WJE ALL
<u>GROUND FLOODLIGHTS - MAINTENANCE PRACTICES</u>	33-44-00		201	WJE ALL
<u>WING AND NACELLE FLOOD LIGHTS - DESCRIPTION AND OPERATION</u>	33-45-00		1	WJE ALL

## 33-CONTENTS

# MD-80 AIRCRAFT MAINTENANCE MANUAL

## CHAPTER 33 LIGHTS

<u>SUBJECT</u>	<u>CHAPTER SECTION</u>	<u>CONF</u>	<u>PAGE</u>	<u>EFFECT</u>
<u>WING AND NACELLE FLOOD LIGHTS - REMOVAL/INSTALLATION</u>	33-45-00		401	WJE ALL
<u>WING AND NACELLE FLOODLIGHTS - ADJUSTMENT/TEST</u>	33-45-00		501	WJE ALL
<u>PASSENGER FORWARD ENTRANCE DOOR STAIR LIGHTS - DESCRIPTION AND OPERATION</u>	33-46-00		1	WJE ALL
<u>PASSENGER FORWARD ENTRANCE DOOR STAIR LIGHTS - MAINTENANCE PRACTICES</u>	33-46-00		201	WJE ALL
<u>LOGO LIGHTS - DESCRIPTION AND OPERATION</u>	33-47-00		1	WJE 401-412, 414-427, 429, 861-866, 868, 869, 871, 872, 875-881, 883, 884, 886, 887, 891
<u>LOGO LIGHTS - MAINTENANCE PRACTICES</u>	33-47-00		201	WJE 401-412, 414-427, 429, 861-866, 868, 869, 871, 872, 875-881, 883, 884, 886, 887, 891
<u>EMERGENCY LIGHTING - DESCRIPTION AND OPERATION</u>	33-50-00		1	WJE ALL
<u>FLIGHT COMPARTMENT EMERGENCY FLOODLIGHTS - DESCRIPTION AND OPERATION</u>	33-51-00		1	WJE ALL
<u>FLIGHT COMPARTMENT EMERGENCY FLOODLIGHTS - ADJUSTMENT/TEST</u>	33-51-00		501	WJE ALL
<u>FLIGHT COMPARTMENT EMERGENCY FLOODLIGHTS - ADJUSTMENT/TEST</u>	33-51-00	1	501	WJE ALL
Operational Check of the Cockpit Flood Light and Thunderstorm Lights TASK 33-51-00-710-801		1	501	WJE ALL
Operational Check of the Cockpit Floodlights by Pulling Emergency Bus Sensing Circuit Breaker TASK 33-51-00-710-802		1	502	WJE ALL
<u>CABIN STANDBY LIGHTS - DESCRIPTION AND OPERATION</u>	33-52-00		1	WJE ALL
<u>CABIN STANDBY LIGHTS - ADJUSTMENT/TEST</u>	33-52-00		501	WJE ALL
<u>EMERGENCY LIGHTS - DESCRIPTION AND OPERATION</u>	33-53-00		1	WJE ALL
<u>EMERGENCY LIGHTS - REMOVAL/INSTALLATION</u>	33-53-00		401	WJE ALL

## 33-CONTENTS



# MD-80 AIRCRAFT MAINTENANCE MANUAL

## CHAPTER 33 LIGHTS

<u>SUBJECT</u>	<u>CHAPTER SECTION</u>	<u>CONF</u>	<u>PAGE</u>	<u>EFFECT</u>
<b><u>EMERGENCY LIGHTS - REMOVAL/INSTALLATION</u></b>	33-53-00	1	401	WJE ALL
Restore the Emergency Light Battery Packs TASK 33-53-00-902-801		1	401	WJE ALL
<b><u>EMERGENCY LIGHTS - ADJUSTMENT/TEST</u></b>	33-53-00		501	WJE ALL
<b><u>EMERGENCY LIGHTS - ADJUSTMENT/TEST</u></b>	33-53-00	1	501	WJE ALL
Operational Check of the Emergency Lighting System Operated From the Flight Deck and Flight Attendant Position TASK 33-53-00-710-801		1	501	WJE ALL
<b><u>EMERGENCY LIGHTS - CHECK</u></b>	33-53-00		601	WJE ALL
<b><u>EMERGENCY AISLE FLOOR LIGHTS AND EXIT IDENTIFIERS- DESCRIPTION AND OPERATION</u></b>	33-53-01	1	1	WJE 401-404, 412, 414, 873-879, 892, 893
<b><u>EMERGENCY AISLE FLOOR LIGHTS AND EXIT IDENTIFIERS - REMOVAL/INSTALLATION</u></b>	33-53-01		401	WJE 401-404, 412, 414, 873-879, 892, 893
<b><u>FLOOR TRACK EMERGENCY LIGHTING - ADJUSTMENT/TEST</u></b>	33-53-01	1	501	WJE 401-404, 412, 414, 873-879, 892, 893
Operational Check of the Floor Track Emergency Lighting TASK 33-53-01-710-801		1	501	WJE 401-404, 412, 414, 873-879, 892, 893
<b><u>EXIT IDENTIFIERS - ADJUSTMENT/TEST</u></b>	33-53-01	2	501	WJE 401-404, 412, 414, 873-879, 892, 893
Functional Check of Self Illuminating Exit Signs TASK 33-53-01-720-801		2	501	WJE 401-404, 412, 414, 873-879, 892, 893

## 33-CONTENTS

**MD-80**  
**AIRCRAFT MAINTENANCE MANUAL**  
**GENERAL - DESCRIPTION AND OPERATION**

**1. Description**

- A. This chapter on lights presents the circuits and related components for all lights on the aircraft. It is intended for use in conjunction with wiring diagrams and electrical schematics to correlate data required to maintain the light systems in the best operating condition. The text is supported by illustrations to provide additional assistance to the mechanic during maintenance; general details of most of the interior and exterior lights are also shown.
- B. The major light circuits are: the flight compartment lights, passenger compartment lights, cargo and service compartment lights, exterior lights, and emergency lighting systems.
- C. The flight compartment circuits include the various lights for general lighting, crew utility lights, and the master warning and caution system. The primary lighting in the flight compartment consists of white incandescent and fluorescent-type lights. Secondary lighting consists of variable-intensity white floodlights.
- D. The passenger compartment lighting provides general lighting for the cabin areas and entrances. Direct and indirect lighting is used as well as utility and work lights, lighted signs for passenger instructions, and the passenger call system.
- E. The cargo and service compartment lights are installed in the compartment and accessory areas to facilitate loading, area inspection, and servicing operations.
- F. The exterior lights provide a high-intensity light pattern for landing, area lighting for ground service, flight scanning lights for inspecting icing conditions, lights for indicating aircraft position, flashing anticollision recognition lights, and passenger door stair lights for facilitating passenger loading.
- G. The emergency lighting system ensures limited lighting through-out the aircraft during electrical power failure. A 28-volt standby system operates on the aircraft batteries if the normal dc bus becomes deenergized. A 2 1/2-volt emergency system powers separate lights from self-contained battery packs to light the emergency exit areas if total loss of power occurs.
- H. The light circuits require minor maintenance such as replacement of lamps or switches. Most light assemblies, and components are readily accessible and can be maintained without using special tools.
- I. The general maintenance practices section in this chapter contains standard instructions for removal and installation of components for which detailed procedures are not provided. If a relatively simple component is installed with the standard attachments, the removal is considered obvious; therefore, individual coverage is not included. Procedures are identical for most switches, relays, transformers, and such equipment.
- J. The light circuits use some electrical connectors, but most of the light assemblies have terminal and screw connections. When environmental conditions permit, wiring is run in open bundles for easy access. Conduit is used in areas required by environment or where maintenance requirement is minimal.
- K. When defective lamps, light assemblies, and components are replaced, equipment with identical part numbers should be installed unless other substitutes have been authorized. After replacing equipment, functional tests should be performed to verify proper circuit operation.
- L. Trouble shooting procedures are provided only in the general maintenance section because most light circuits require the same steps to locate trouble. In most cases, inoperative lights, open circuit breakers, blown fuses, and such troubles are obvious.
- M. The safety precautions that must be observed when accomplishing work on the light circuits are outlined in the general maintenance practices.

EFFECTIVITY  
WJE ALL

**33-00-00**

TP-80MM-WJE

Page 1  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### GENERAL-TROUBLE SHOOTING

#### 1. General

- A. The following trouble shooting steps are provided to augment specific circuit information found in the wiring diagrams, and to serve as a basis for developing the more detailed procedures required to locate cause of infrequent light system troubles.

#### 2. Trouble Shooting

- A. When possible, investigate report of trouble at source to ascertain conditions leading to, and under which, trouble occurred, and whether failure of other light circuits or electrical systems occurred simultaneously. Careful analysis of such information is often indicative of nature, and most likely location of trouble.
- B. Study circuit wiring diagrams covering affected light system and its related power supply. A thorough understanding of the function is necessary before a trouble shooting procedure can be effectively planned and executed. By combining a knowledge of applicable circuits with information gained from trouble report, an investigation usually indicates circuit, or section of circuit, in which trouble is located.
- C. Visually inspect circuit for open circuit breakers, blown fuses, broken wiring, loose wire connections, loose electrical connectors, and evidence of shorting. Observe particularly, security of connections and presence of foreign matter.
- D. Perform continuity check. A blown fuse, burned wires, or other evidence of shorting indicates that a power-on check would create a hazardous condition. With power off, isolate defective circuit and check one section at a time until shorted or open circuit section is found.
- E. Perform power-on check only when it has been determined that such a check cannot create a hazardous condition. With power on, perform operational tests to confirm report of trouble and to determine, if possible, whether cause of trouble is in light circuit or in power supply system. A voltmeter or test light may also be used for a power check at various breakpoints in circuit, such as terminal strips and equipment input terminals, to determine if power is available at these points.
- F. Replace any light assembly or component that remains inoperative after making certain that power is available at unit and that ground connections are secure at unit.

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

**33-00-00**

Page 101  
Feb 01/2015

# MD-80 AIRCRAFT MAINTENANCE MANUAL

## GENERAL - MAINTENANCE PRACTICES

### 1. General

- A. General maintenance practices include standard removal and installation procedures, instructions to safety circuit breakers, and a guide for the inspection check of the light circuit components.
- B. When a fluorescent lamp ballast is replaced due to failure, the lamp should also be replaced. A faulty lamp can function similar to a rectifier which saturates the ballast core and causes the ballast to overheat and fail.

### 2. Equipment and Materials

NOTE: Equivalent substitutes may be used instead of the following listed items:

**Table 201**

Name and Number	Manufacturer
Clamp (HPV-5N) or (P4-5WS)	Burndy Nylon Molding Corporation

### 3. Removal/Installation Light Circuit Components

- A. Remove Component (Figure 201)

**WARNING:** TAG AND SAFETY CIRCUIT BREAKERS.

- (1) Open and tag applicable circuit breaker(s).
  - (a) Install clamp HPV-5N (Burndy) or P4-5Ws (Nylon Molding Corporation) around circuit breaker(s) button.
  - (b) Tag circuit breaker(s) with following warning sign:

**WARNING:** DO NOT CLOSE THIS CIRCUIT BREAKER. THIS CIRCUIT BREAKER MUST REMAIN OPEN UNTIL COMPLETION OF MAINTENANCE.

- (2) Gain access to component.
- (3) Disengage and/or remove attaching hardware.
- (4) Disconnect electrical connector and/or wiring terminals from component.
- (5) Install dust cover on connector and receptacle.
- (6) Remove component.

NOTE: If component is not to be replaced immediately, bare wire terminals should be insulated and stowed to prevent shorting if power is applied to the electrical system.

- B. Install Component (Figure 201)

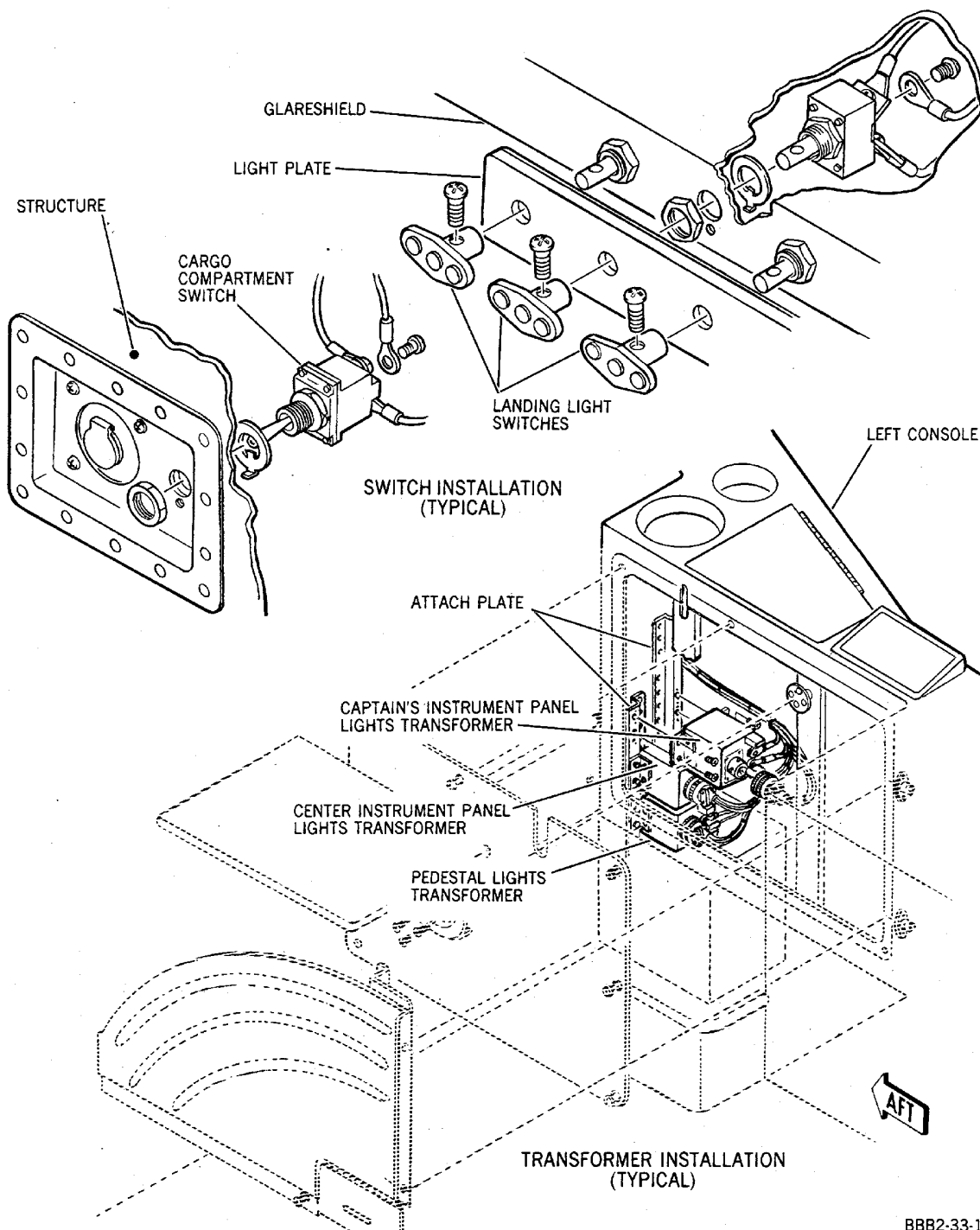
**WARNING:** TAG AND SAFETY CIRCUIT BREAKERS.

- (1) Make certain applicable circuit breaker is open and tagged.
- (2) Connect electrical connector and/or wiring terminals to component.
- (3) Position component on mounting and install attaching hardware.
- (4) Install or secure parts removed for access to component.
- (5) Remove tag(s) and close circuit breaker(s) as applicable.
- (6) Perform functional test by operating appropriate switch to check proper operation of circuit.

EFFECTIVITY <b>WJE ALL</b>
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# 33-00-00

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



BBB2-33-1

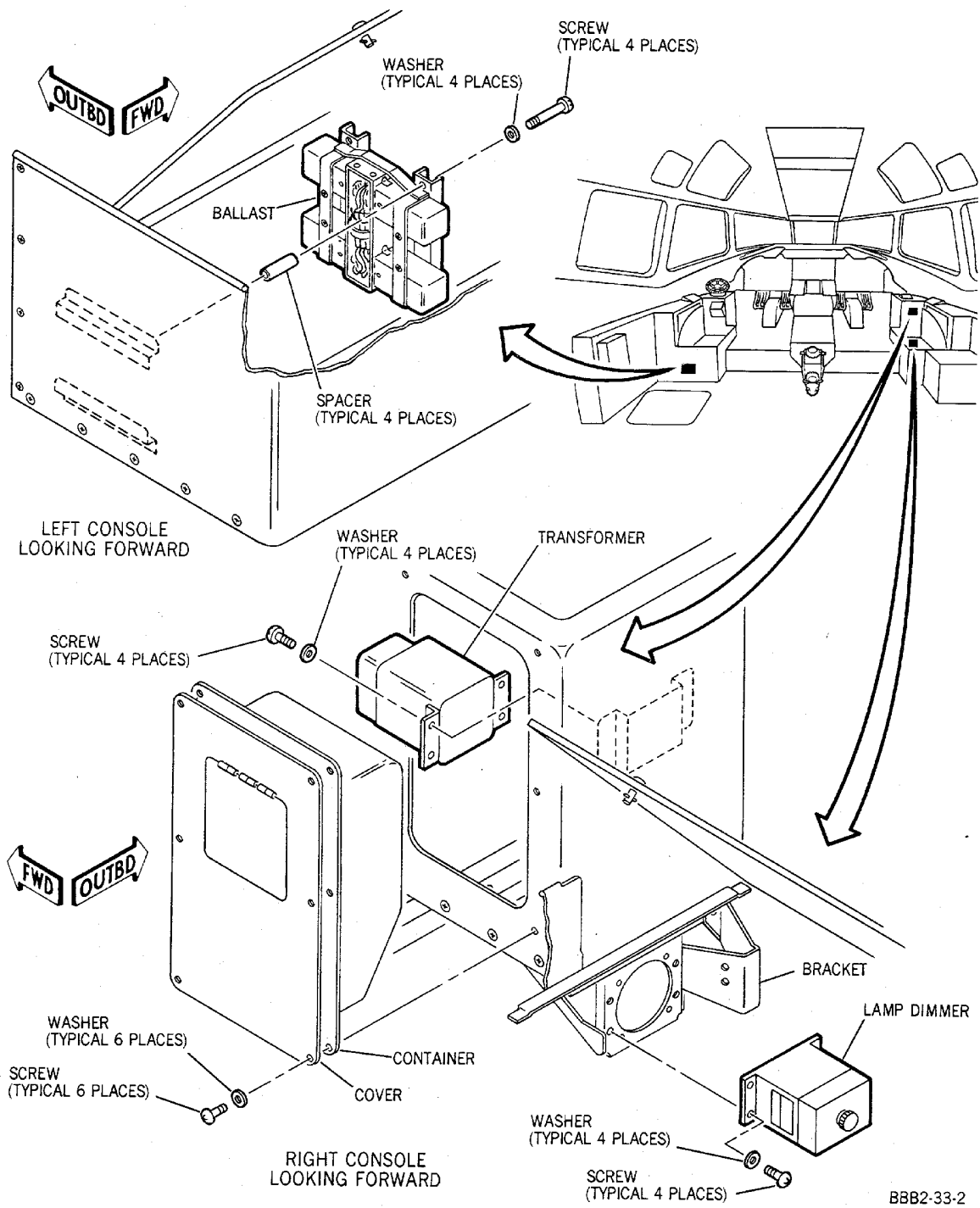
**Miscellaneous Equipment -- Removal/Installation**  
**Figure 201/33-00-00-990-801 (Sheet 1 of 2)**

EFFECTIVITY  
WJE ALL

**33-00-00**

TP-80MM-WJE

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



**Miscellaneous Equipment -- Removal/Installation  
Figure 201/33-00-00-990-801 (Sheet 2 of 2)**

EFFECTIVITY  
WJE ALL

**33-00-00**

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### 4. Check Light Circuit Components

#### A. Check Component

- (1) Check component for proper installation, security of mounting, physical damage, and evidence of overheating.
- (2) Check that terminal connections are secure and are free of foreign matter or metallic objects.
- (3) Check bonding connections for good electrical contact and for security.
- (4) Check wiring for physical damage such as chafing, fraying, or cut insulation.
- (5) Repair or replace equipment as required.

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

**33-00-00**

Page 204  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### FLIGHT COMPARTMENT - DESCRIPTION AND OPERATION

#### 1. General

- A. The flight compartment lights (Figures 1, 2, and 3) provide general and local white lighting for the area, control panels, instruments, and controls. Separate control panels are installed to permit individual selection of intensity and area to be lighted.
- B. The white floodlight intensity is controlled by floodlight dimming controls. A thunderstorm switch is provided to bypass certain floodlight dimming switches and assure adequate lighting during flight in thunderstorm conditions.
- C. The cockpit floodlight switch controls a separate white floodlight circuit. The switch is used in the on position by ground personnel; when placed in the alternate thunderstorm lever-lock detent position, it turns on additional high intensity lights which are not required during normal conditions.
- D. Most instruments are integrally lighted and the instrument and panel lights are dimmed by switches located on the light control panels. The utility and work lights have individual control switches. The emergency light operates on a separate circuit, (Ref. Emergency Lighting Systems).
- E. The control panels are lighted by incandescent lamps soldered to integral etched circuit lamp boards.
- F. The master warning and caution system provides visual signals of an operating condition.

EFFECTIVITY  
WJE ALL

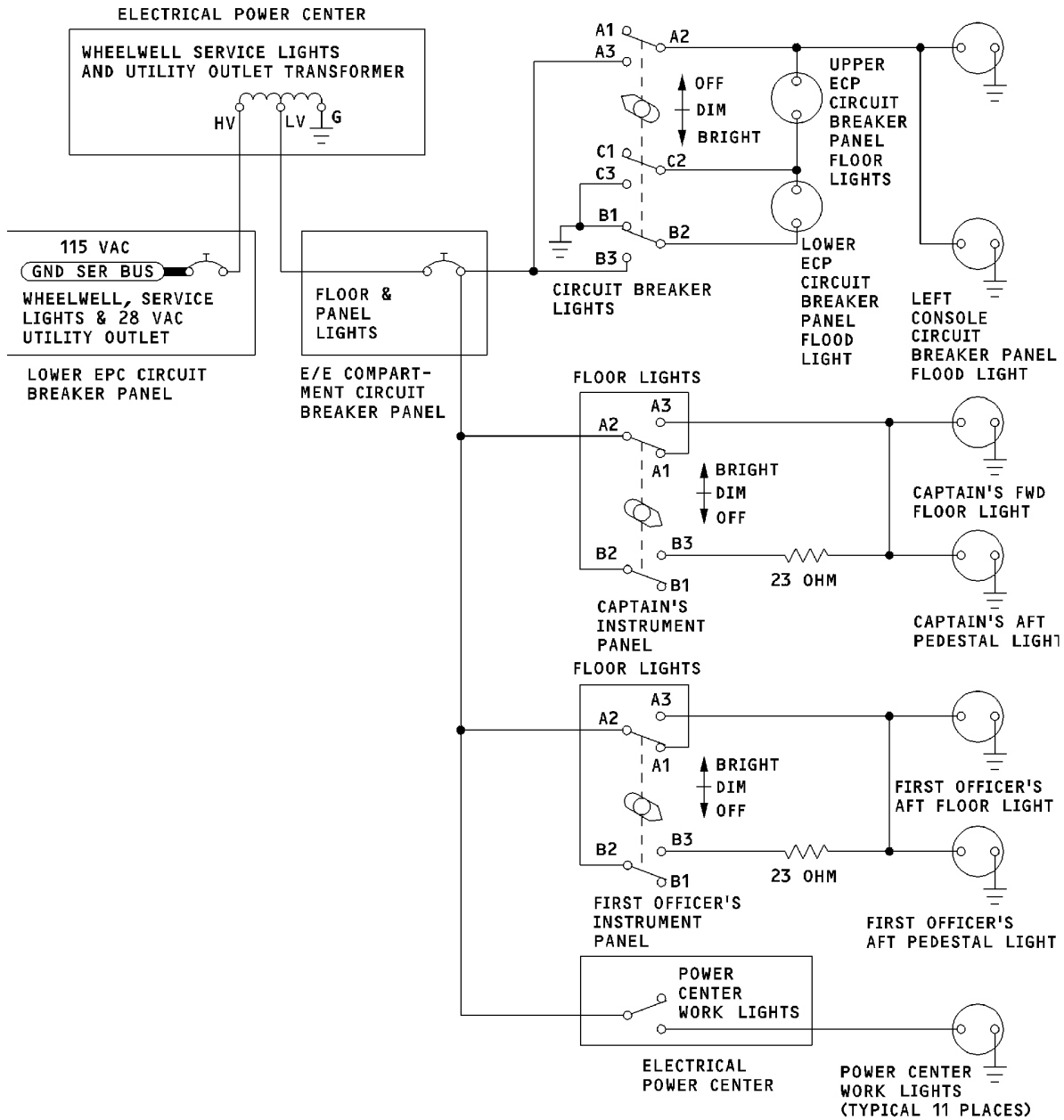
TP-80MM-WJE

**33-10-00**

Page 1  
Feb 01/2015



## MD-80 AIRCRAFT MAINTENANCE MANUAL



CAG(IGDS)

BBB2-33-5A

**Floor, EPC Work Lights, and Circuit Breaker Panel Lights -- Schematic  
Figure 1/33-10-00-990-812**

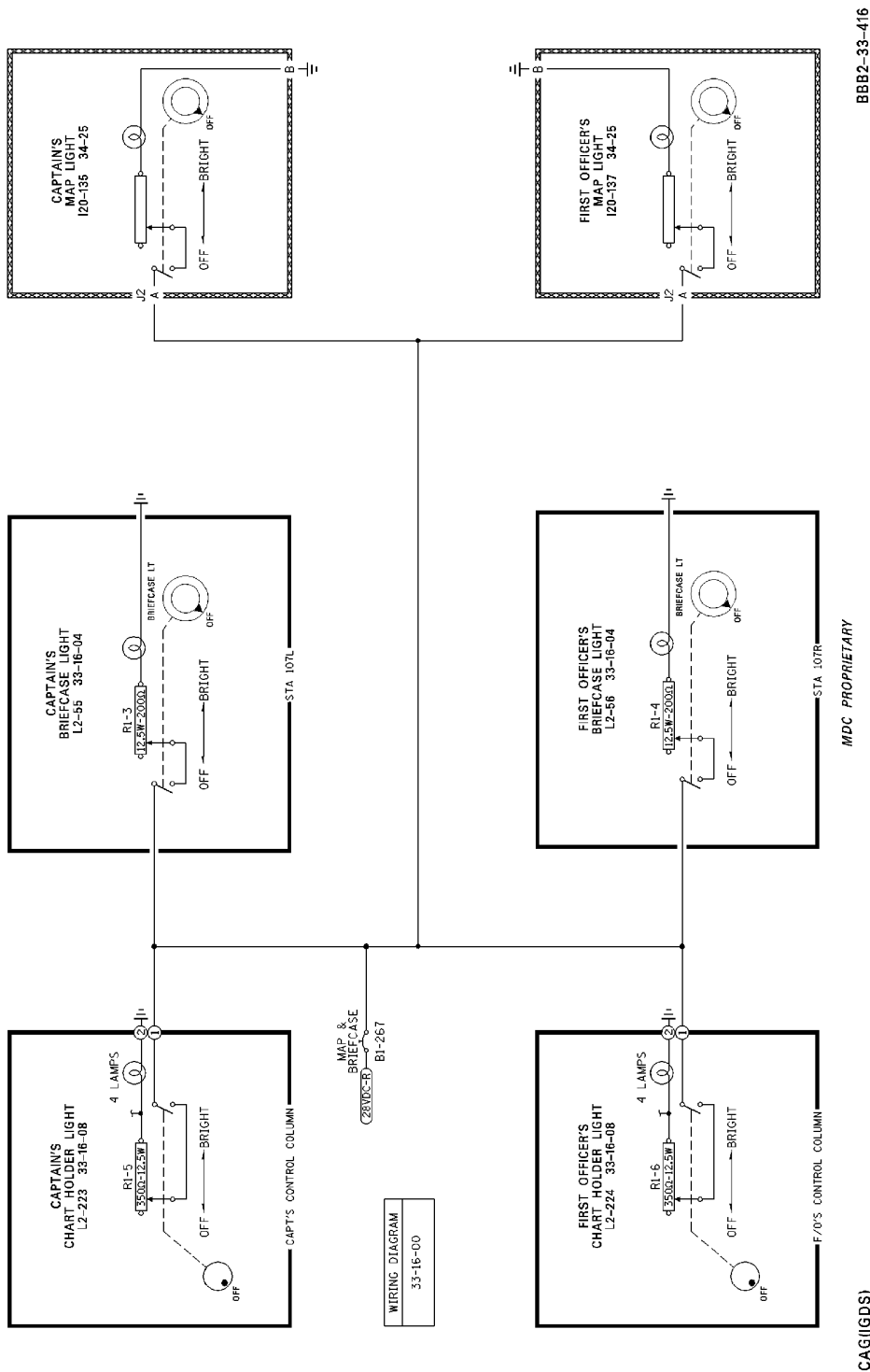
EFFECTIVITY  
WJE ALL

TP-80MM-WJE

# 33-10-00

Page 2  
Feb 01/2015

# MD-80 AIRCRAFT MAINTENANCE MANUAL

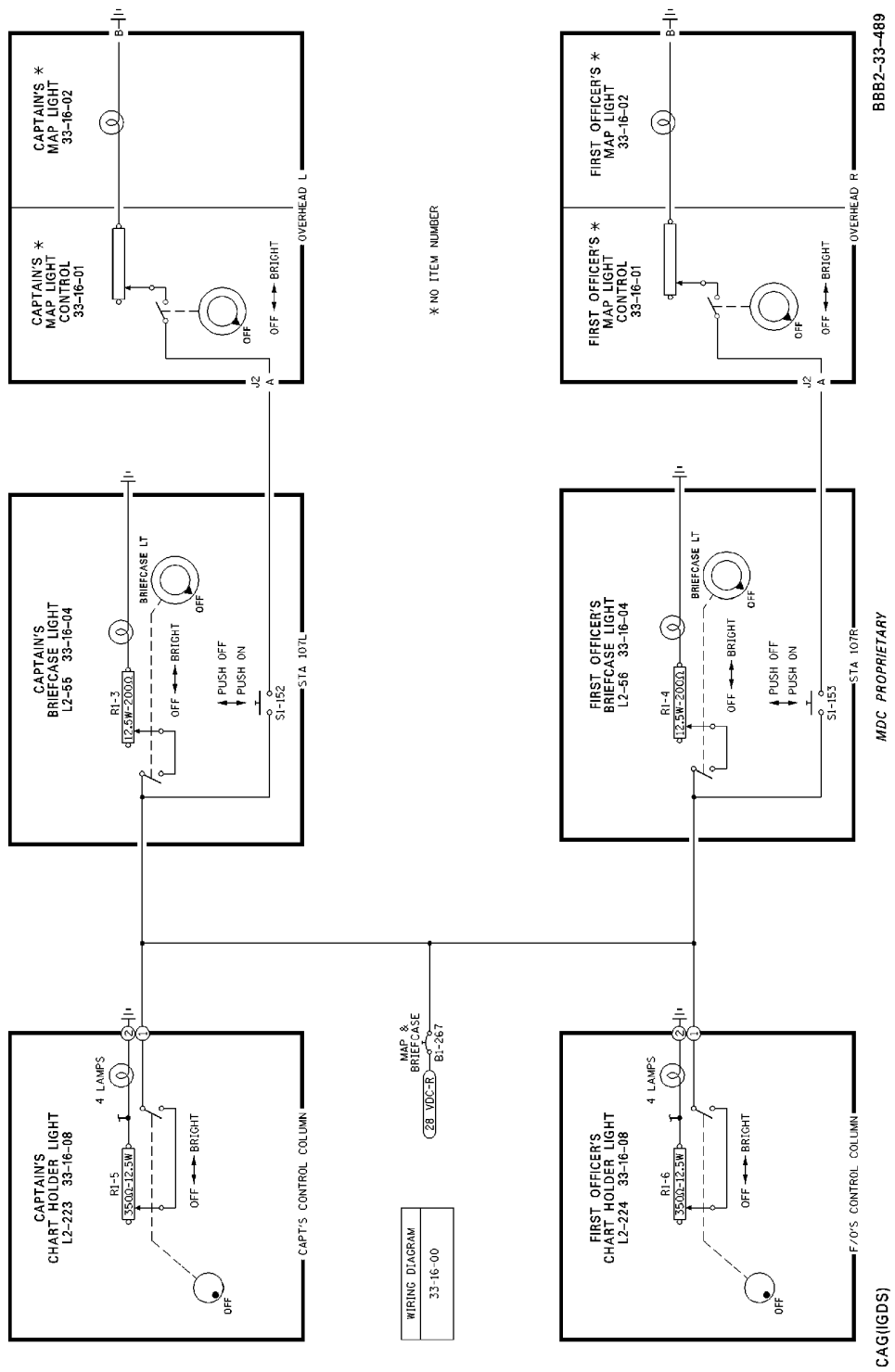


Map, Briefcase and Chart Holder Lights -- Schematic  
Figure 2/33-10-00-990-813

EFFECTIVITY  
WJE ALL

33-10-00

# MD-80 AIRCRAFT MAINTENANCE MANUAL

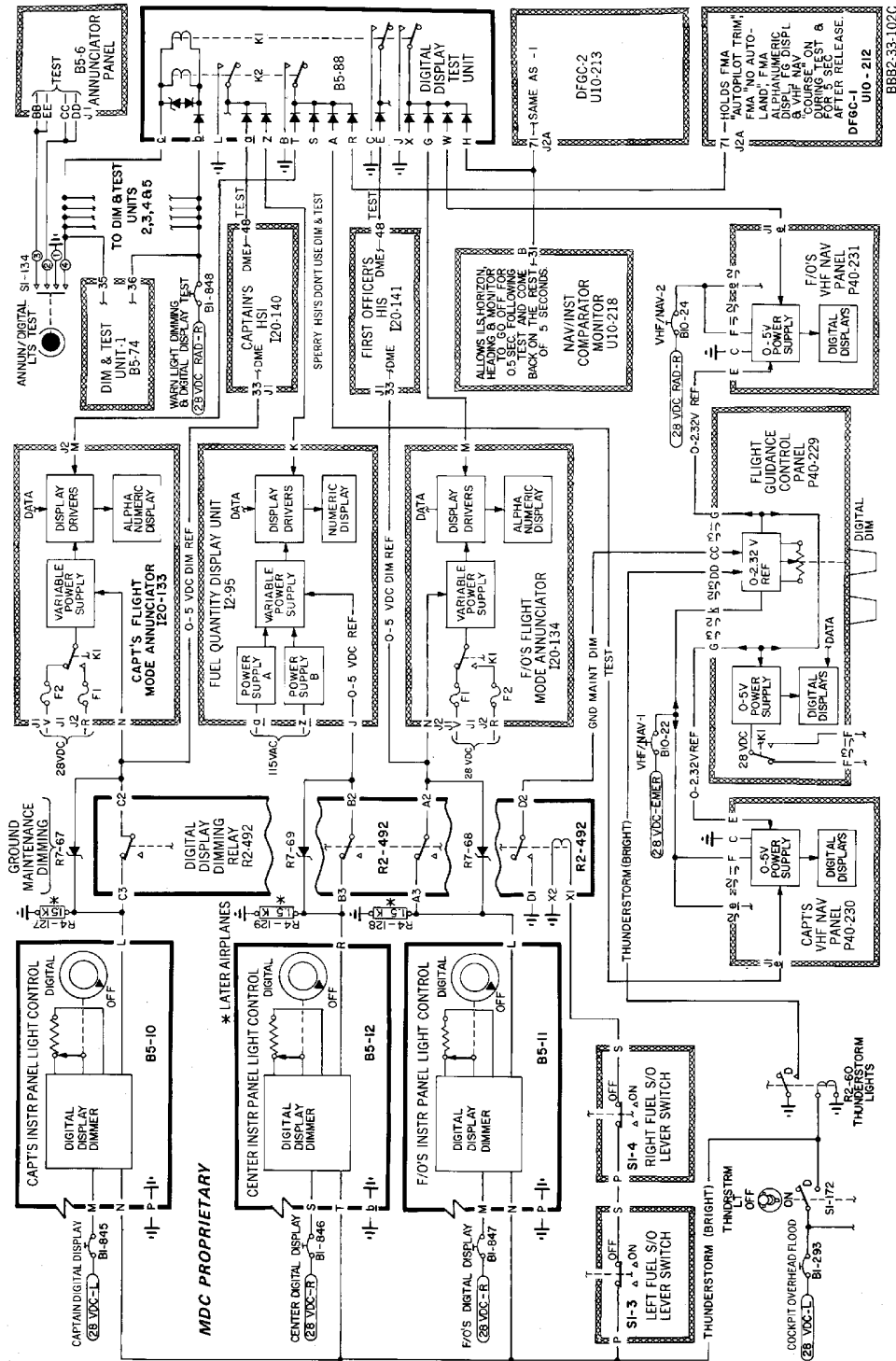


Map, Briefcase and Chart Holder Lights -- Schematic  
Figure 3/33-10-00-990-814

EFFECTIVITY  
WJE 422, 425, 427

33-10-00

**MD-80**  
**AIRCRAFT MAINTENANCE MANUAL**

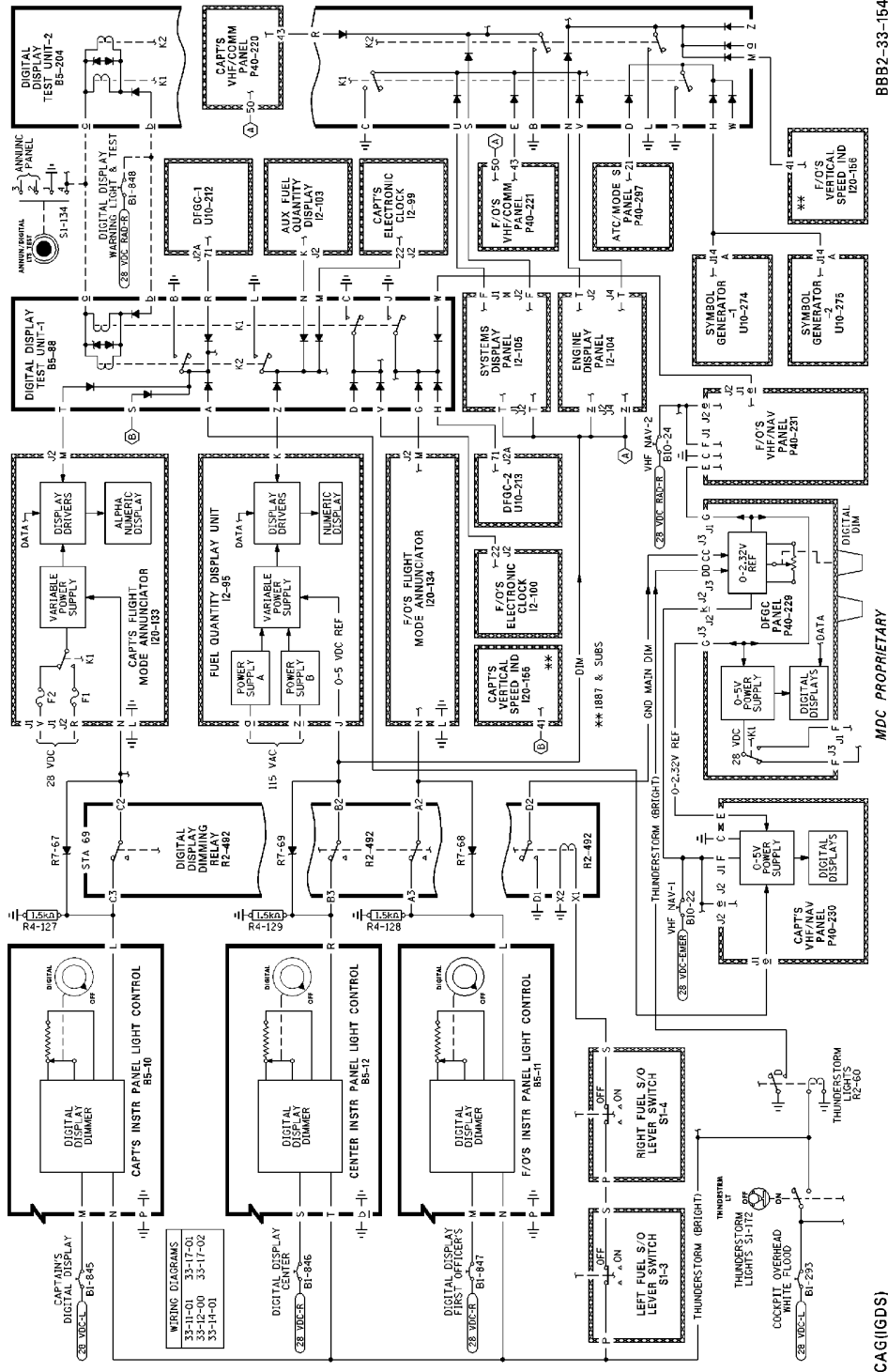


**Digital Display Dimming and Test -- System Schematic**  
**Figure 4/33-10-00-990-815**

EFFECTIVITY  
WJE 405, 409, 410, 873, 874, 881, 883, 884, 892, 893

**33-10-00**

# MD-80 AIRCRAFT MAINTENANCE MANUAL



BBB2-33-154B

MDC PROPRIETARY

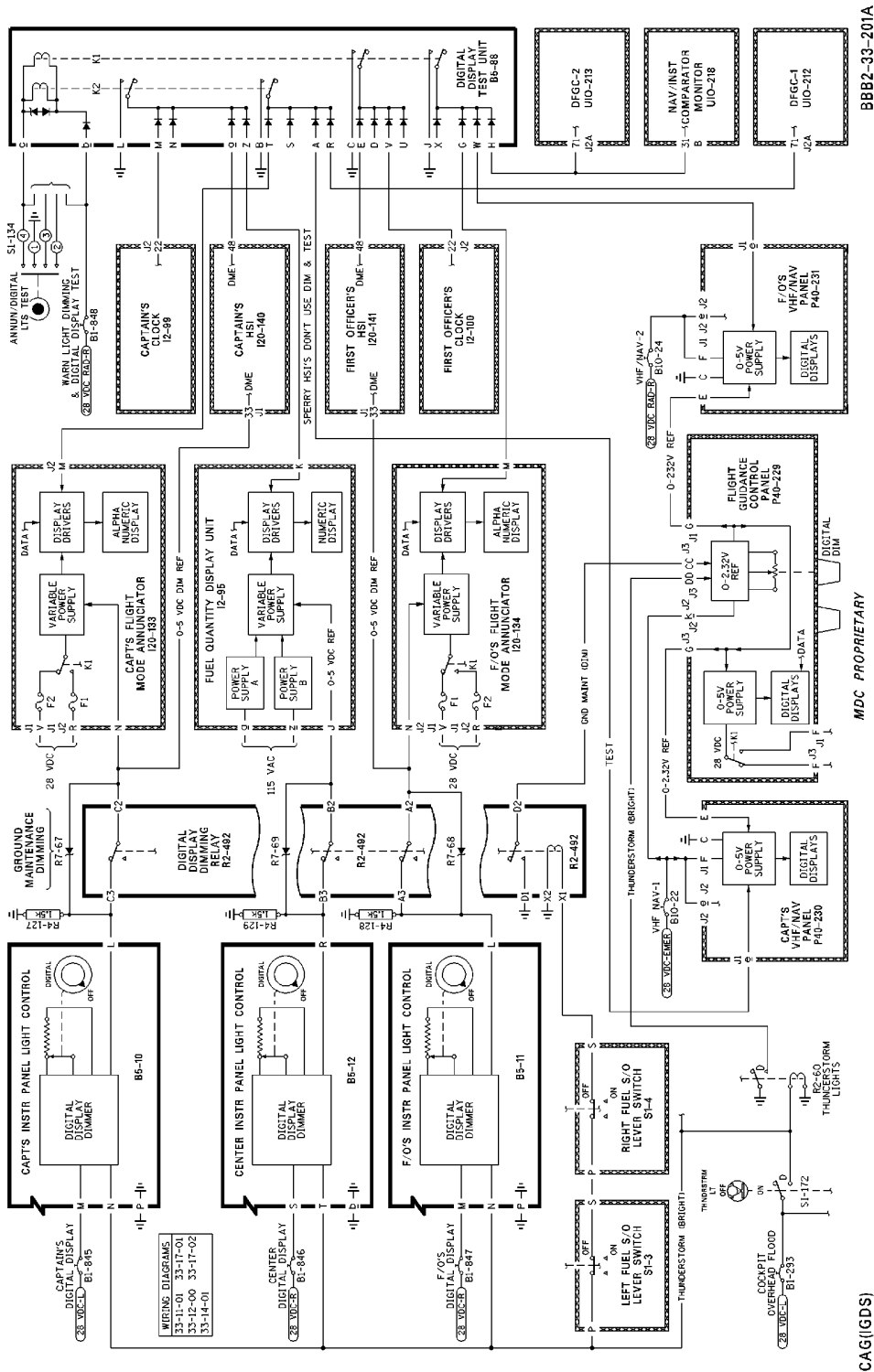
CAG(I/GDS)

Digital Display Dimming and Test -- System Schematic  
Figure 5/33-10-00-990-820

EFFECTIVITY  
WJE 877-879

33-10-00

# MD-80 AIRCRAFT MAINTENANCE MANUAL



BBB2-33-201A

MDC PROPRIETARY

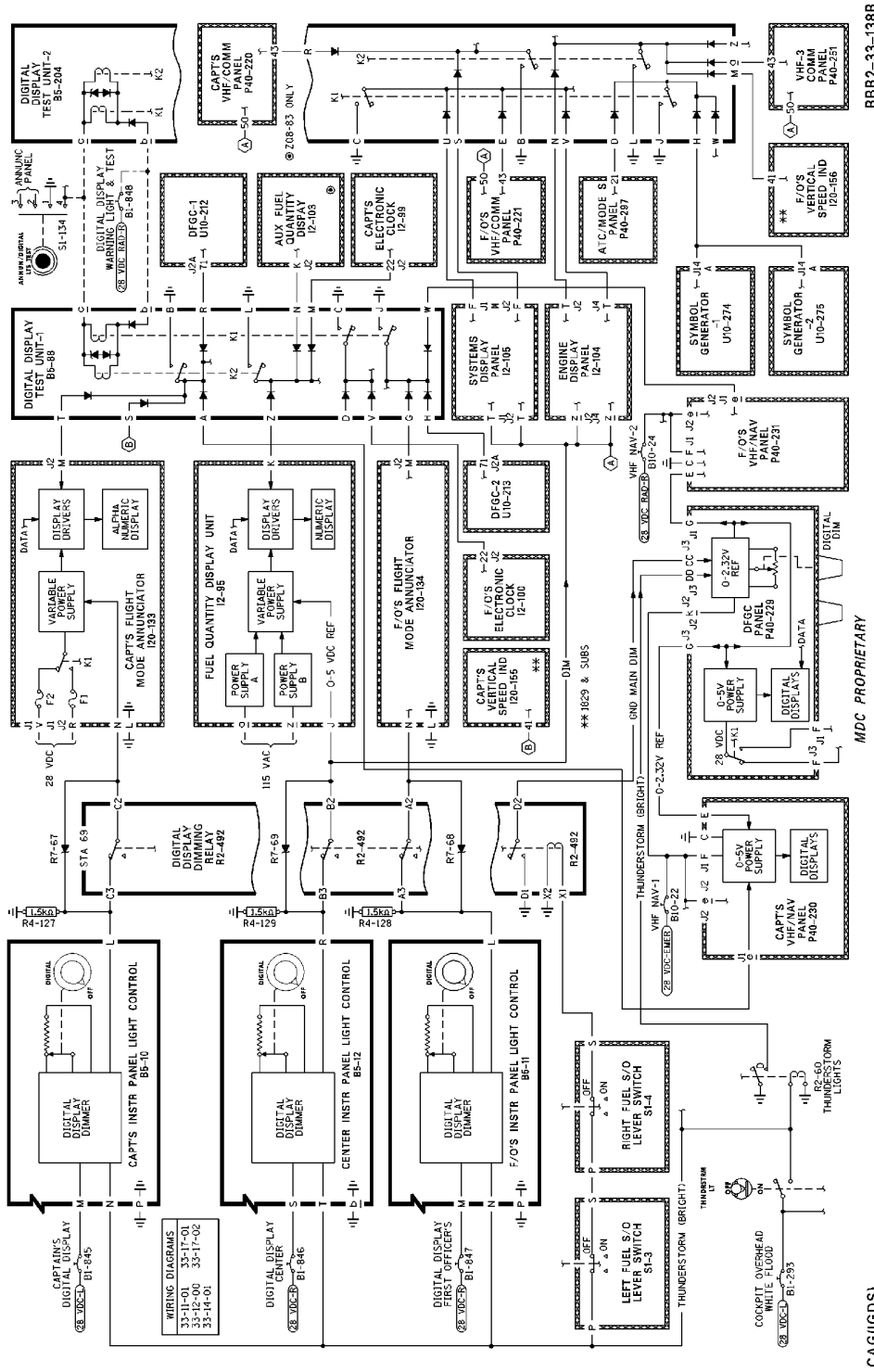
CAG(IGDS)

Digital Display Dimming and Test -- System Schematic  
Figure 6/33-10-00-990-824

EFFECTIVITY  
 WJE 875-879

## 33-10-00

# MD-80 AIRCRAFT MAINTENANCE MANUAL



BBB2-33-138B

MDC PROPRIETARY

CAG(I/GDS)

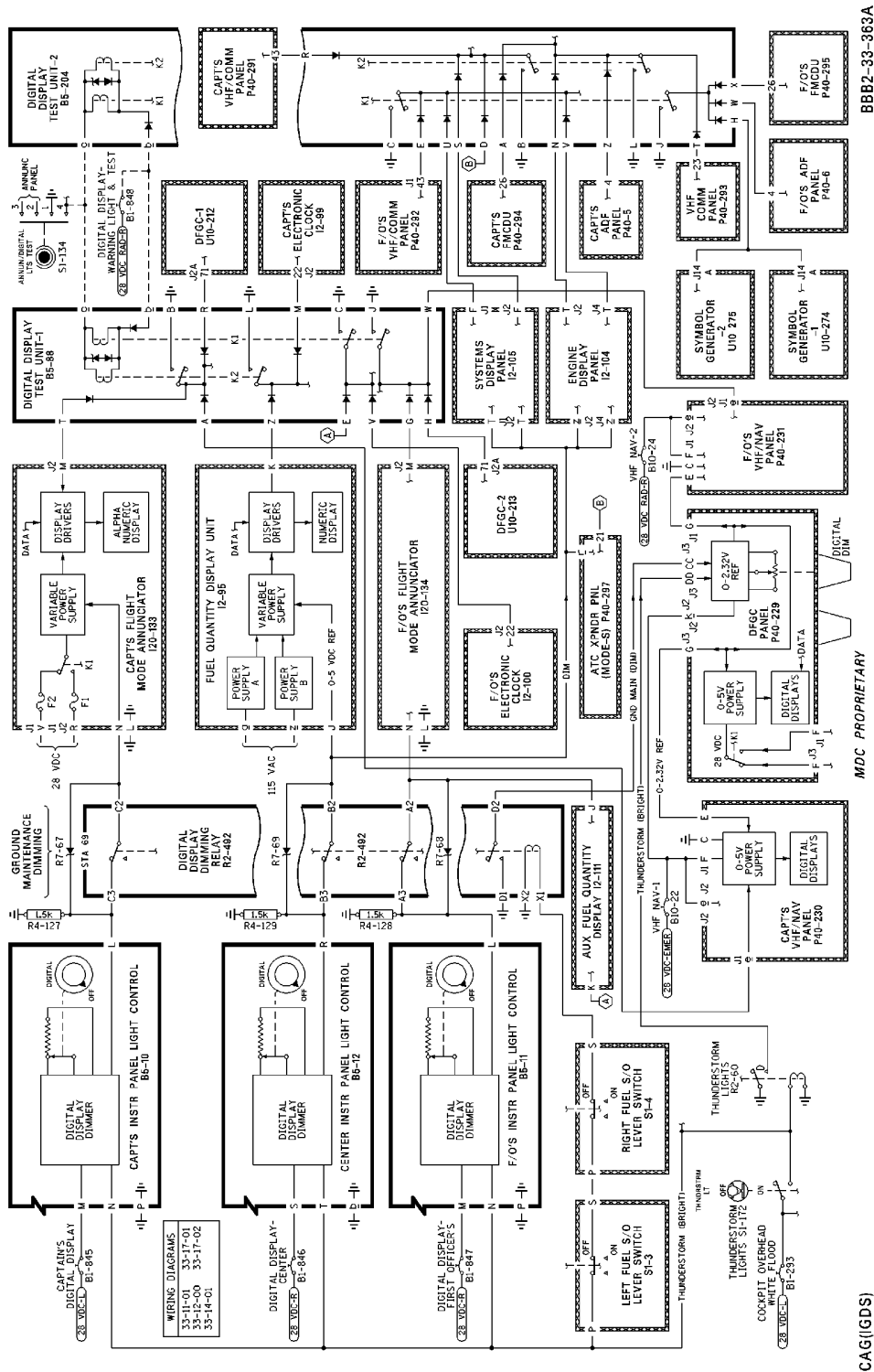
Digital Display Dimming and Test -- System Schematic  
Figure 7/33-10-00-990-826

EFFECTIVITY  
WJE 406

TP-80MM-WJE

33-10-00

# MD-80 AIRCRAFT MAINTENANCE MANUAL



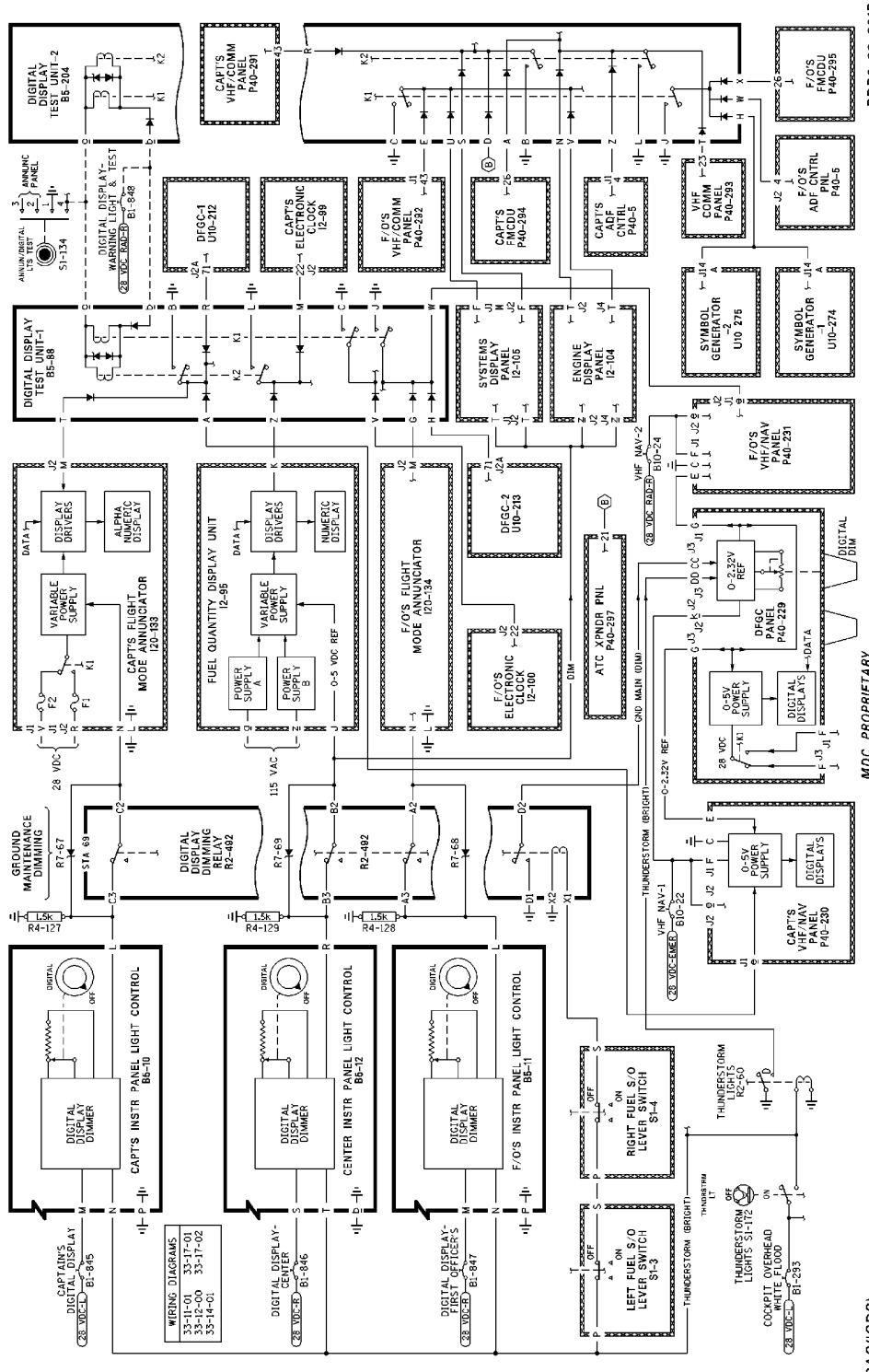
**Digital Display Dimming and Test -- System Schematic**  
Figure 8/33-10-00-990-829

EFFECTIVITY  
WJE 401-404, 412, 414

**33-10-00**



# MD-80 AIRCRAFT MAINTENANCE MANUAL



BBB2-33-391B

MDC PROPRIETARY

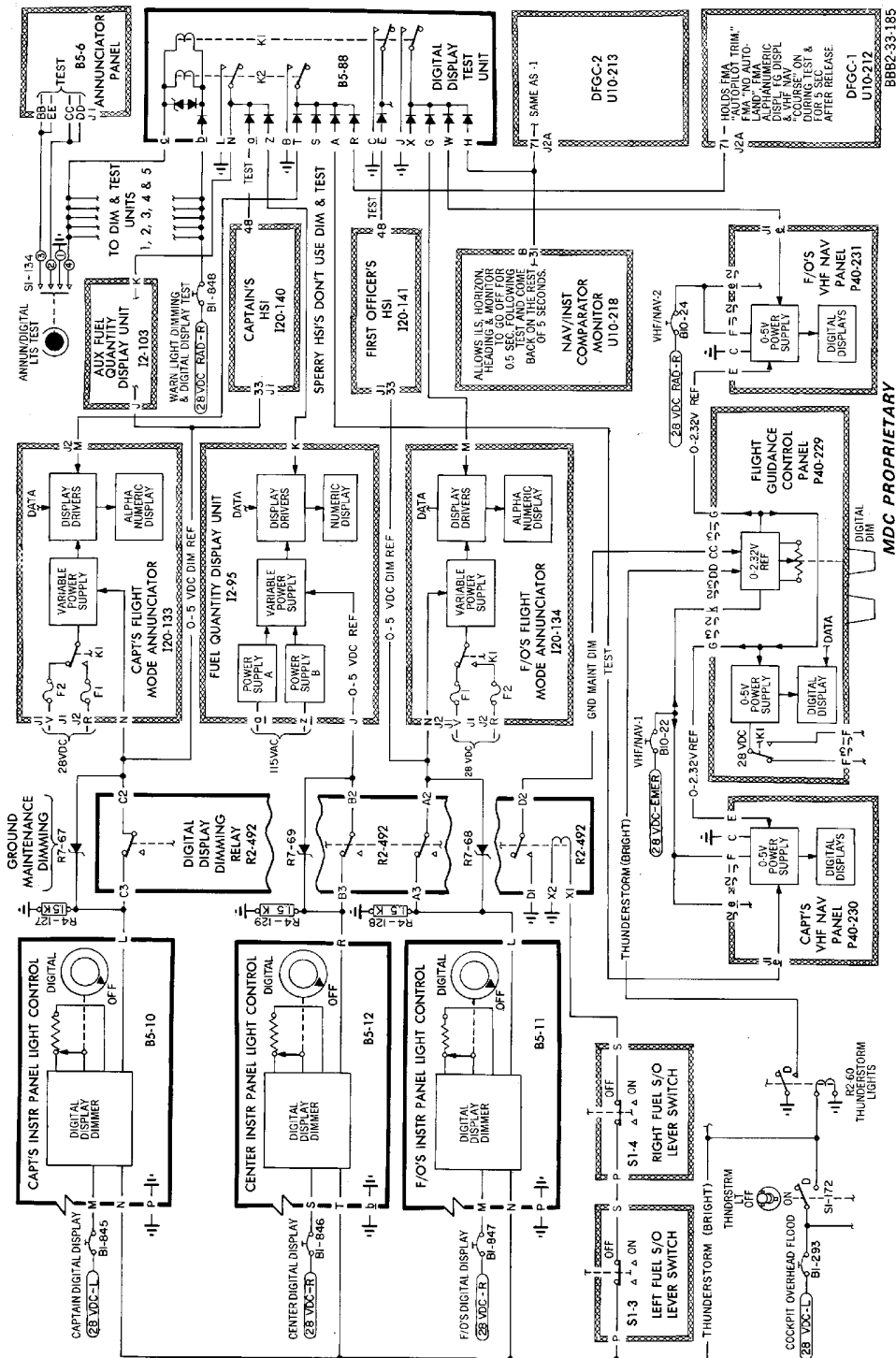
CAG(IGDS)

**Digital Display Dimming and Test -- System Schematic**  
Figure 9/33-10-00-990-830

EFFECTIVITY  
WJE 415, 417-419, 421, 423, 863-866, 869, 871, 872

**33-10-00**

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**

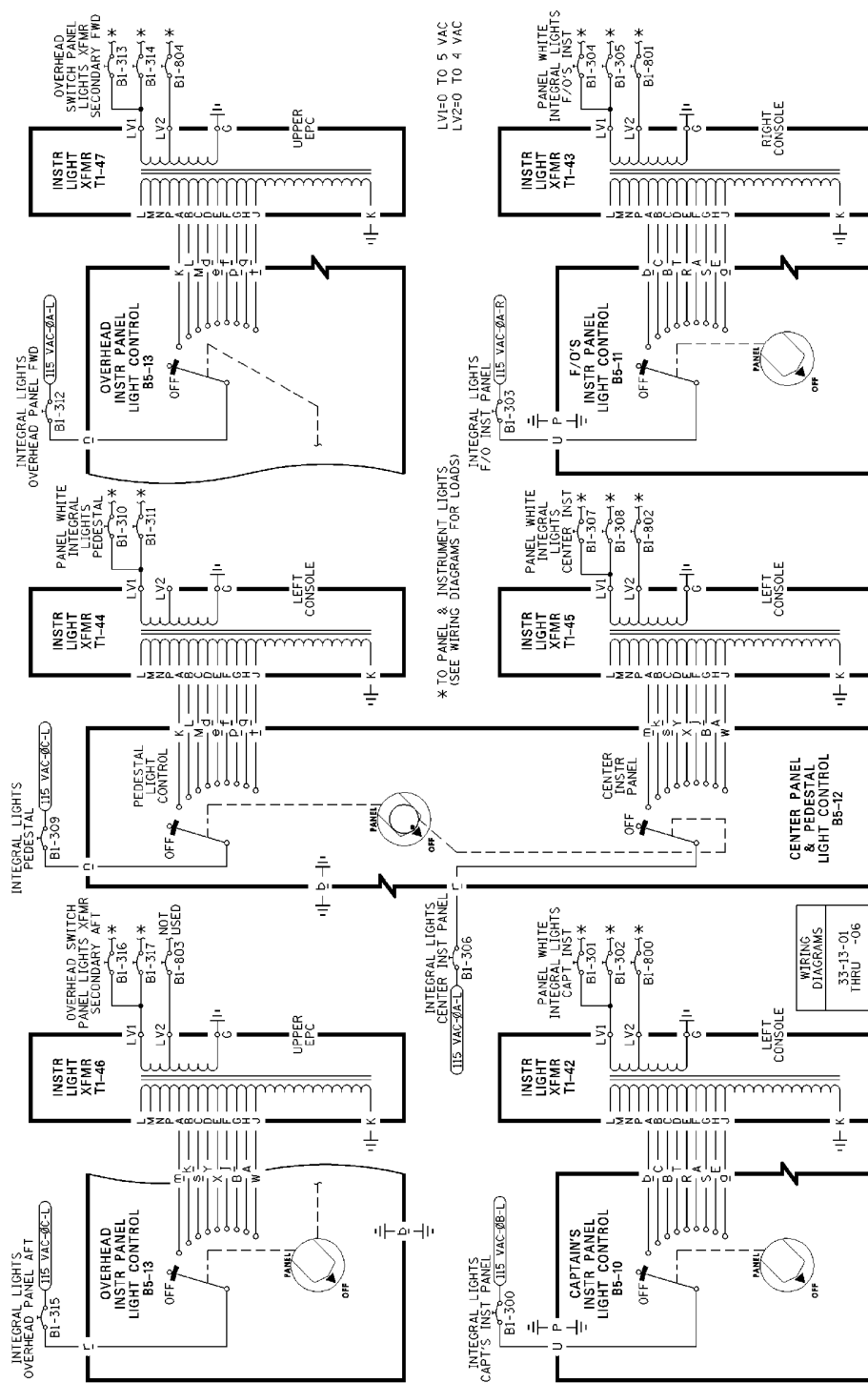


**Digital Display Dimming and Test -- System Schematic**  
Figure 10/33-10-00-990-831

**EFFECTIVITY**  
WJE 407, 408, 411, 416, 420, 422, 424-427, 429, 861, 862, 868, 880, 891

**33-10-00**

## MD-80 AIRCRAFT MAINTENANCE MANUAL



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MDC PROPRIETARY

CAG(IIGDS)

**Instrument and Panel Lighting -- System Schematic**  
**Figure 11/33-10-00-990-846**

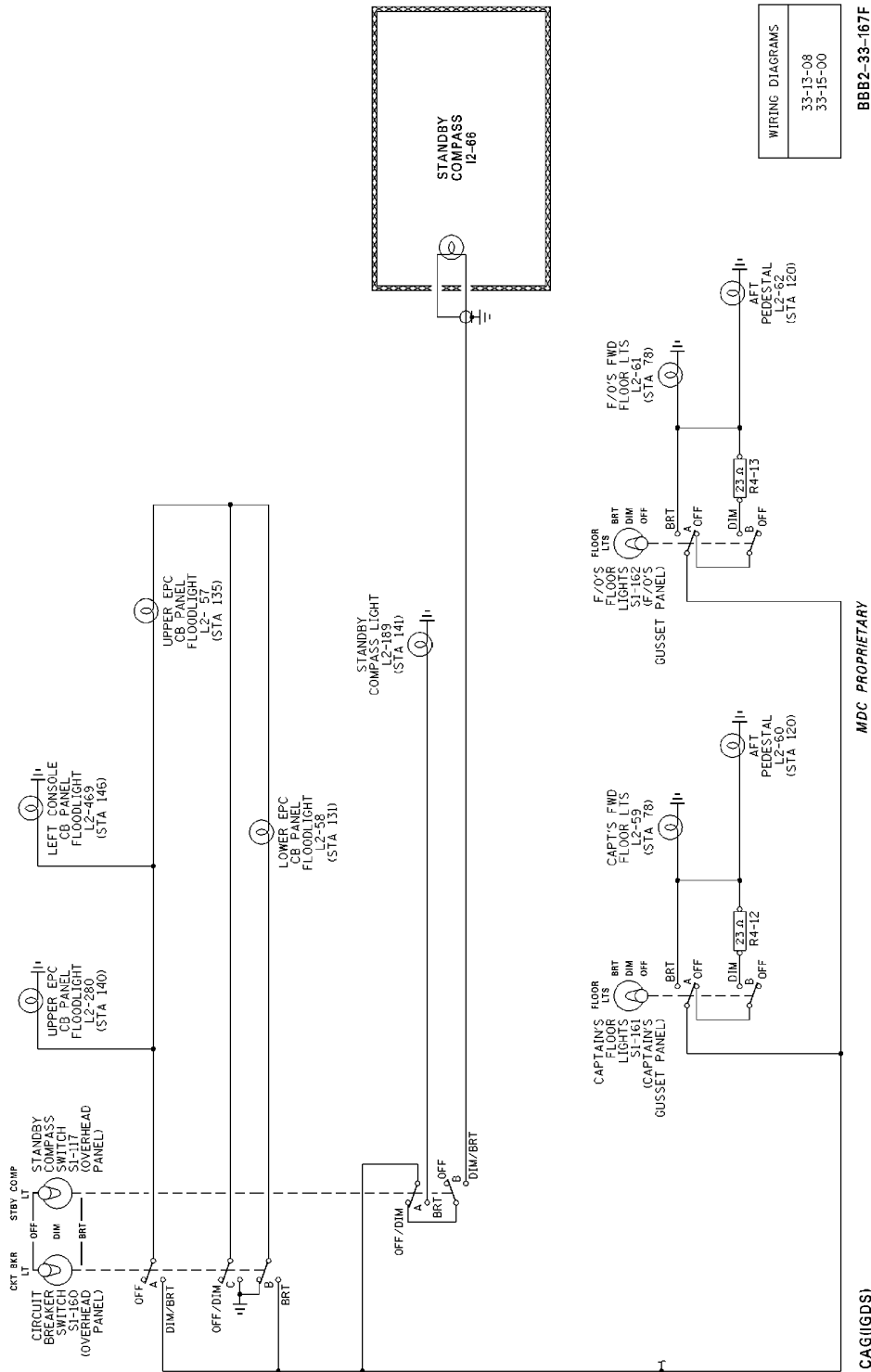
EFFECTIVITY  
WJE ALL

TP-80MM-WJE

**33-10-00**

Page 12  
Feb 01/2016

# MD-80 AIRCRAFT MAINTENANCE MANUAL



WIRING DIAGRAMS
33-13-08
33-15-00

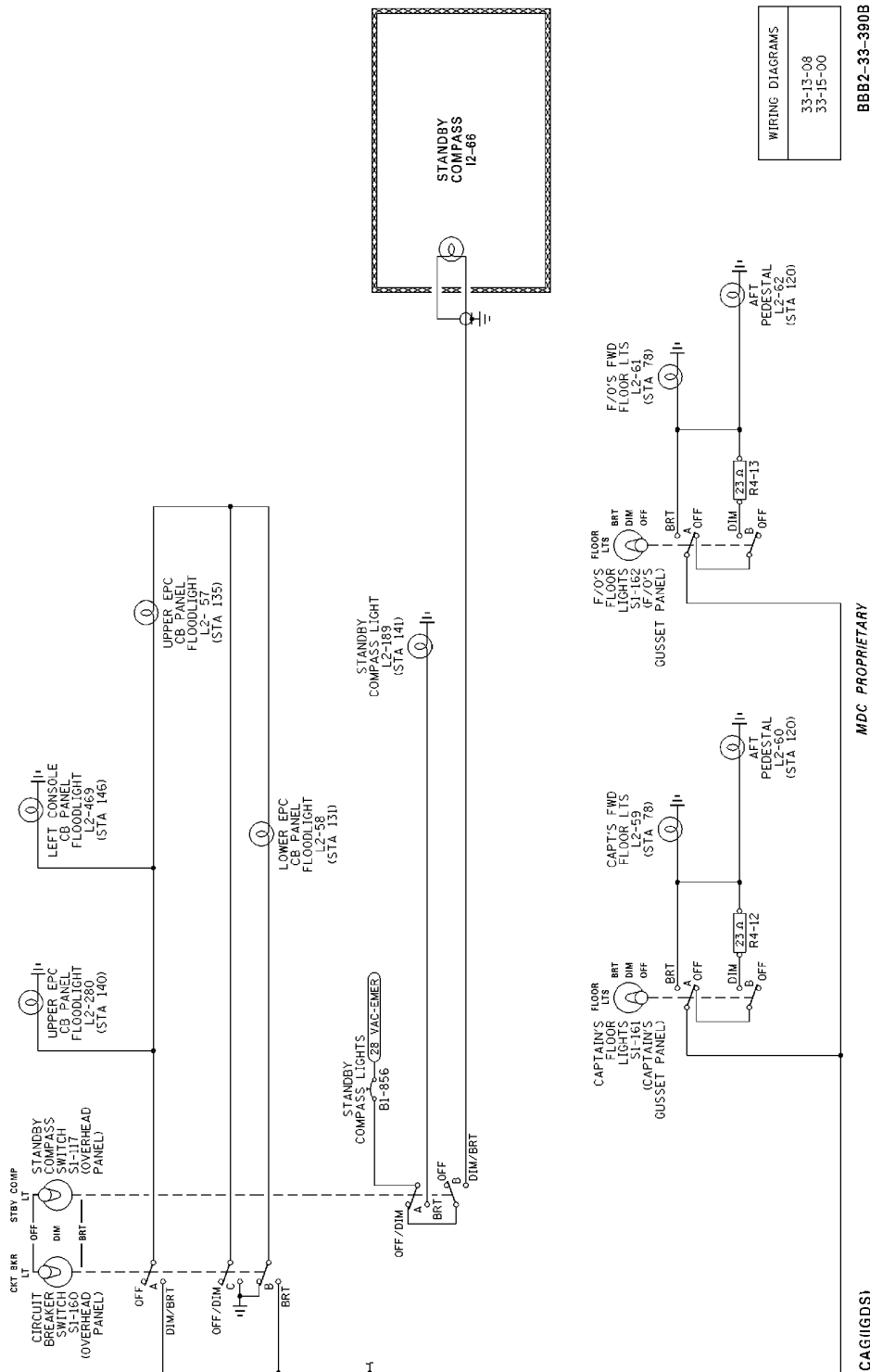
BBB2-33-167F

Standby Compass, CB Switch and Captain's Floor Lts - Schematic  
Figure 12/33-10-00-990-852

EFFECTIVITY  
WJE ALL

33-10-00

# MD-80 AIRCRAFT MAINTENANCE MANUAL



WIRING DIAGRAMS
33-13-08
33-15-00

BBB2-33-390B

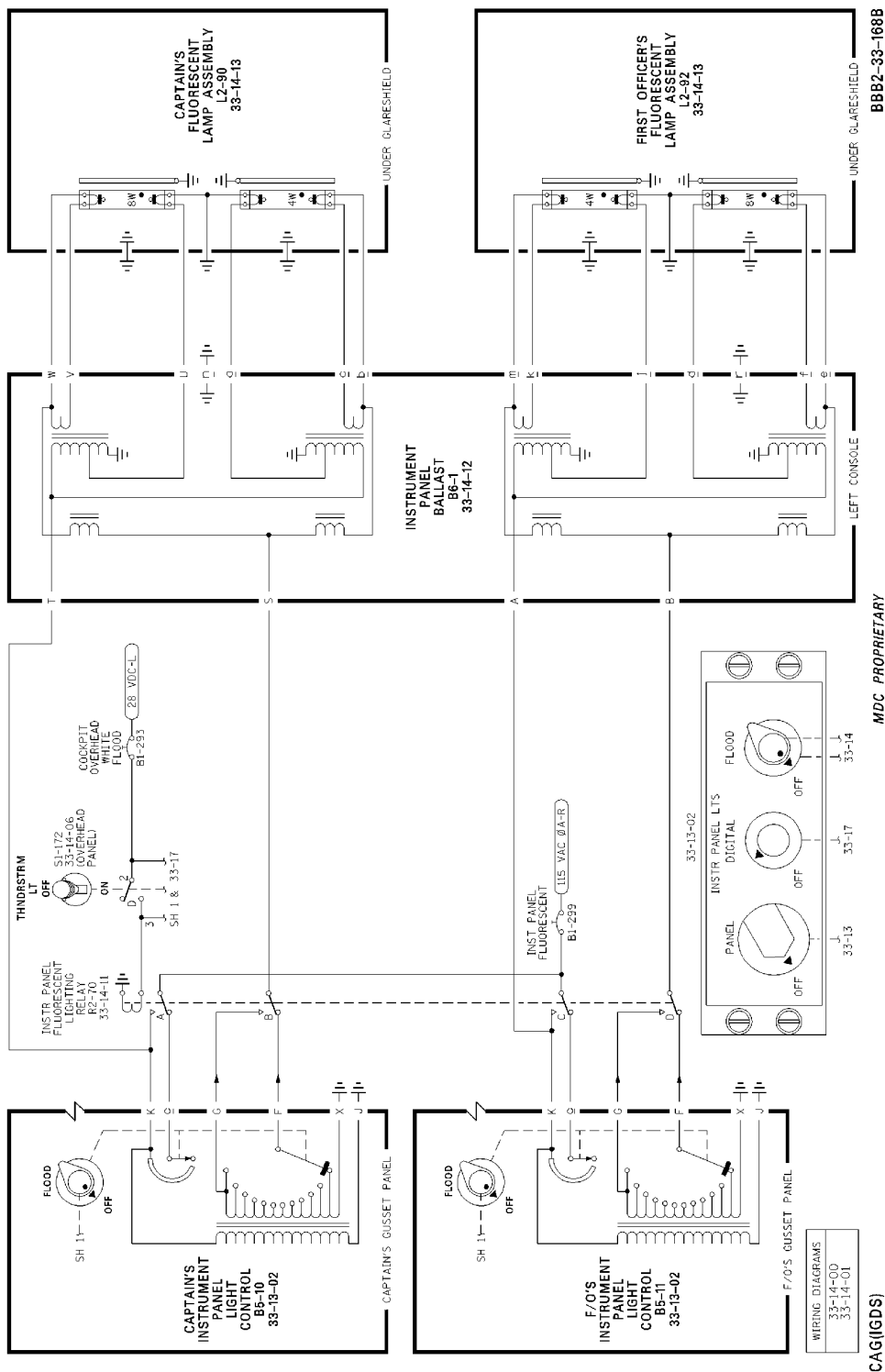
Standby Compass, CB Switch and Captain's Floor Lts - Schematic  
Figure 13/33-10-00-990-847

EFFECTIVITY  
WJE 417, 419, 421, 423, 869, 871, 872

33-10-00

TP-80MM-WJE

# MD-80 AIRCRAFT MAINTENANCE MANUAL



BBE2-33-1688

MDC PROPRIETARY

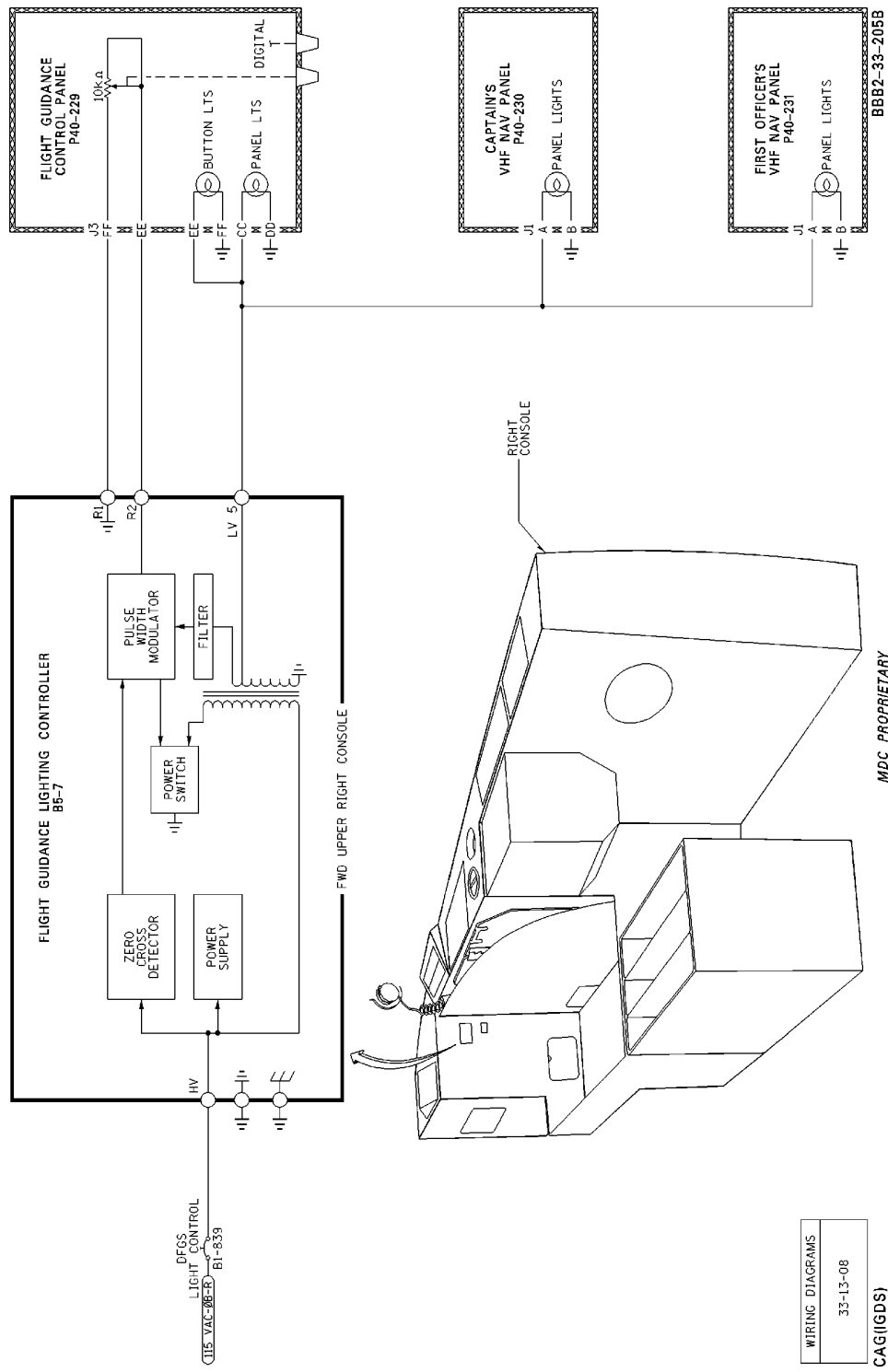
CAG(I/GDS)

Instrument & Panel Lighting -- Schematic  
Figure 14/33-10-00-990-849

EFFECTIVITY  
WJE ALL

## 33-10-00

# MD-80 AIRCRAFT MAINTENANCE MANUAL



MDC PROPRIETARY

WIRING DIAGRAMS  
33-13-08  
CAG(IIGDS)

Flight Guidance Control Panel Lights -- Schematic  
Figure 15/33-10-00-990-850

EFFECTIVITY  
WJE ALL

33-10-00

# MD-80 AIRCRAFT MAINTENANCE MANUAL

## FLIGHT COMPARTMENT LIGHTS - MAINTENANCE PRACTICES

### 1. General

- A. Various types of lamps and lamp fixtures are used for illumination of the flight compartment. It is not necessary to remove the fixture in order to relamp. Lamp replacement can be accomplished by opening the fixture or removing the lens cover. New lamps should be checked by placing the appropriate switch in the on position, to verify proper lamp operation.

### 2. Removal/Installation Flight Compartment Lights

- A. Remove Lights

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Open and tag following circuit breakers applicable to light being removed:  
Open these circuit breakers and install safety tags:

#### **LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-319	WHEELWELL SERV LTS & 28 VAC UTILITY OUTLET

#### **LOWER EPC, DC AIR CONDITIONING & MISCELLANEOUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
W	28	B1-378	ALTERNATE THUNDER STORM
W	29	B1-267	MAP & BRIEFCASE

#### **LOWER EPC, DC TRANSFER BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	39	B1-292	COCKPIT WHITE FLOOD LIGHTS

#### **LOWER EPC, LIGHTS - LEFT DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
M	33	B1-293	COCKPIT OVERHEAD WHITE FLOOD

#### **OVERHEAD EMERGENCY DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 401-409, 411, 412, 414-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893</b>			
A	15	B1-479	CAPT & F/O WHITE FLOOD LIGHTS

#### **WJE 410**

A	16	B1-479	CAPT & F/O WHITE FLOOD LIGHTS
---	----	--------	-------------------------------

#### **WJE ALL**

#### **UPPER EPC, LIGHTS - RIGHT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
L	18	B1-299	INST PANEL FLUORESCENT

- (2) Gain access to lamp and attaching screws.  
(3) Remove lamp.  
(4) Remove screws which attach fixture to aircraft.

EFFECTIVITY  
WJE ALL

# 33-10-00

TP-80MM-WJE

Page 201  
Feb 01/2016



## MD-80 AIRCRAFT MAINTENANCE MANUAL

- (5) Disconnect and tag electrical wiring.
- (6) Remove light fixture from aircraft.

B. Install Lights

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Make sure that these circuit breakers are open and have safety tags:

### LEFT CONSOLE, GROUND SERVICE BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-319	WHEELWELL SERV LTS & 28 VAC UTILITY OUTLET

### LOWER EPC, DC AIR CONDITIONING & MISCELLANEOUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
W	28	B1-378	ALTERNATE THUNDER STORM
W	29	B1-267	MAP & BRIEFCASE

### LOWER EPC, DC TRANSFER BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	39	B1-292	COCKPIT WHITE FLOOD LIGHTS

### LOWER EPC, LIGHTS - LEFT DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
M	33	B1-293	COCKPIT OVERHEAD WHITE FLOOD

### OVERHEAD EMERGENCY DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 401-409, 411, 412, 414-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893</b>			
A	15	B1-479	CAPT & F/O WHITE FLOOD LIGHTS
<b>WJE 410</b>			
A	16	B1-479	CAPT & F/O WHITE FLOOD LIGHTS
<b>WJE ALL</b>			

### UPPER EPC, LIGHTS - RIGHT AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
L	18	B1-299	INST PANEL FLUORESCENT

- (2) Connect electrical wiring to fixture.
- (3) Position fixture on aircraft and install attaching screws.
- (4) Install lamp.
- (5) Remove the safety tags and close these circuit breakers:

### LEFT CONSOLE, GROUND SERVICE BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-319	WHEELWELL SERV LTS & 28 VAC UTILITY OUTLET

EFFECTIVITY  
WJE ALL

# 33-10-00

TP-80MM-WJE

Page 202  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### LOWER EPC, DC AIR CONDITIONING & MISCELLANEOUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
W	28	B1-378	ALTERNATE THUNDER STORM
W	29	B1-267	MAP & BRIEFCASE

### LOWER EPC, DC TRANSFER BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	39	B1-292	COCKPIT WHITE FLOOD LIGHTS

### LOWER EPC, LIGHTS - LEFT DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
M	33	B1-293	COCKPIT OVERHEAD WHITE FLOOD

### OVERHEAD EMERGENCY DC BUS

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

WJE 401-409, 411, 412, 414-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893

A	15	B1-479	CAPT & F/O WHITE FLOOD LIGHTS
---	----	--------	-------------------------------

#### WJE 410

A	16	B1-479	CAPT & F/O WHITE FLOOD LIGHTS
---	----	--------	-------------------------------

#### WJE ALL

### UPPER EPC, LIGHTS - RIGHT AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
L	18	B1-299	INST PANEL FLUORESCENT

- (6) Place applicable switch in ON position to verify proper operation of lights.
- (7) Place applicable switch to OFF position.

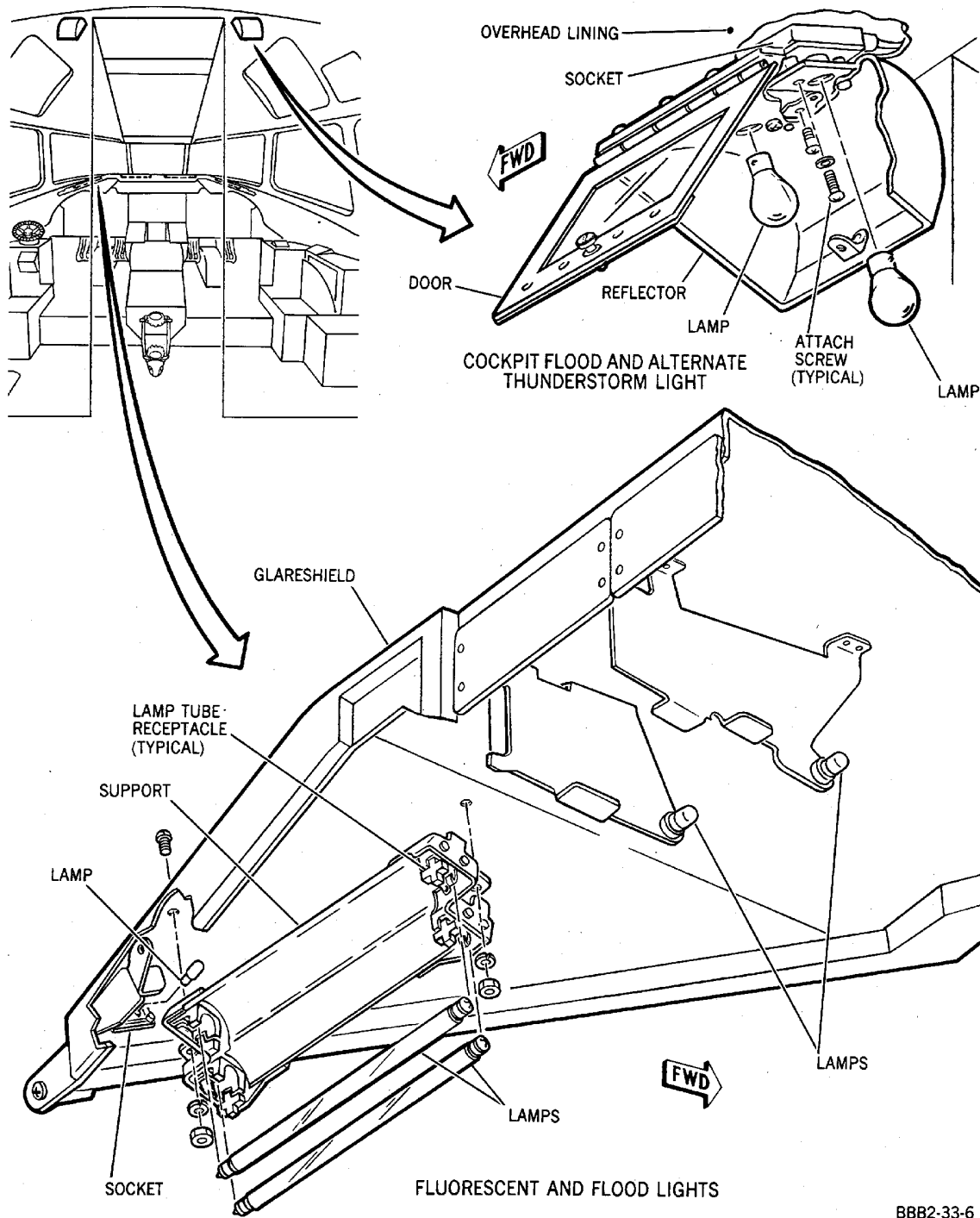
EFFECTIVITY  
WJE ALL

TP-80MM-WJE

# 33-10-00

Page 203  
Feb 01/2016

# MD-80 AIRCRAFT MAINTENANCE MANUAL



BBB2-33-6

Fluorescent and Floodlights -- Removal/Installation  
Figure 201/33-10-00-990-801

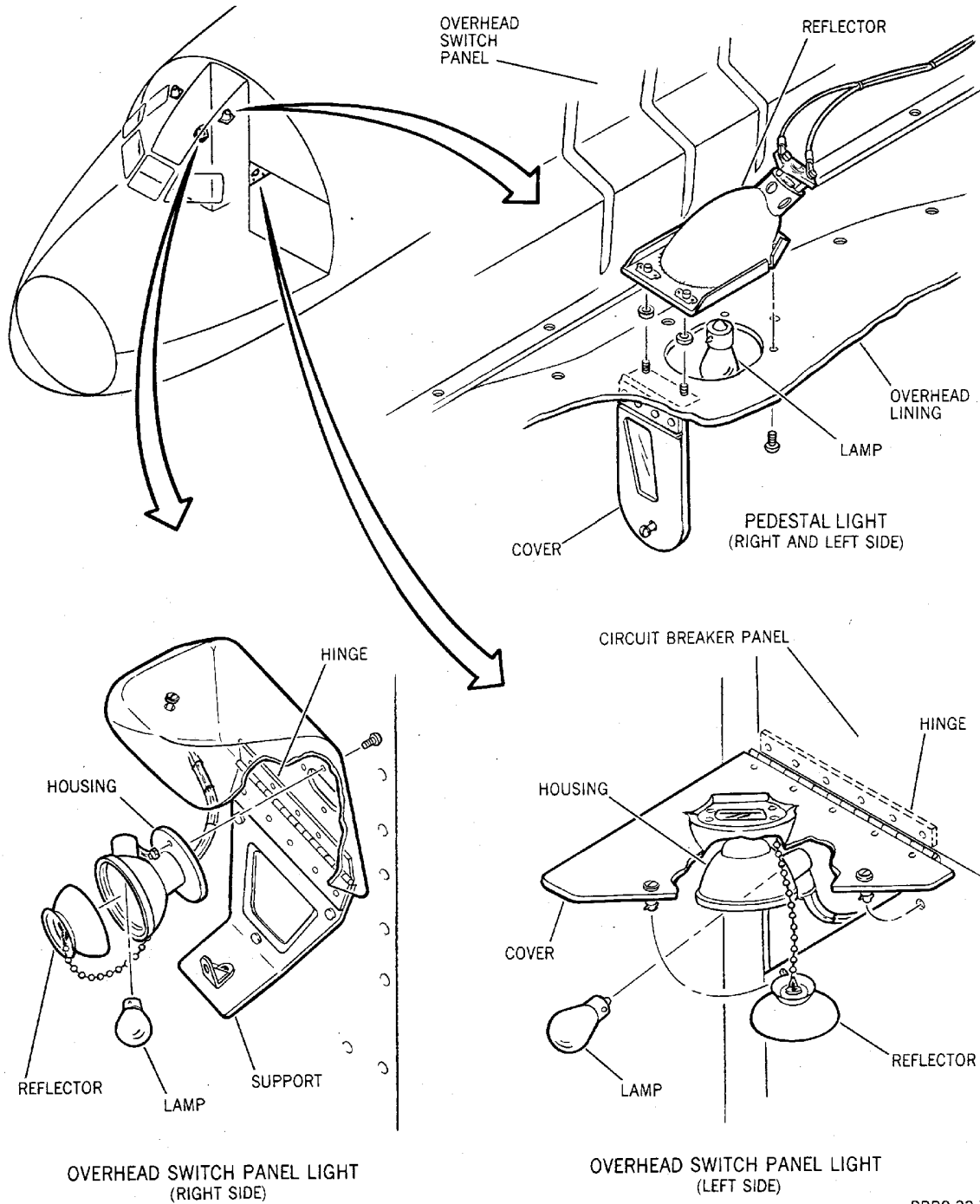
EFFECTIVITY  
WJE ALL

## 33-10-00

TP-80MM-WJE

Page 204  
Feb 01/2015

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



BBB2-33-7

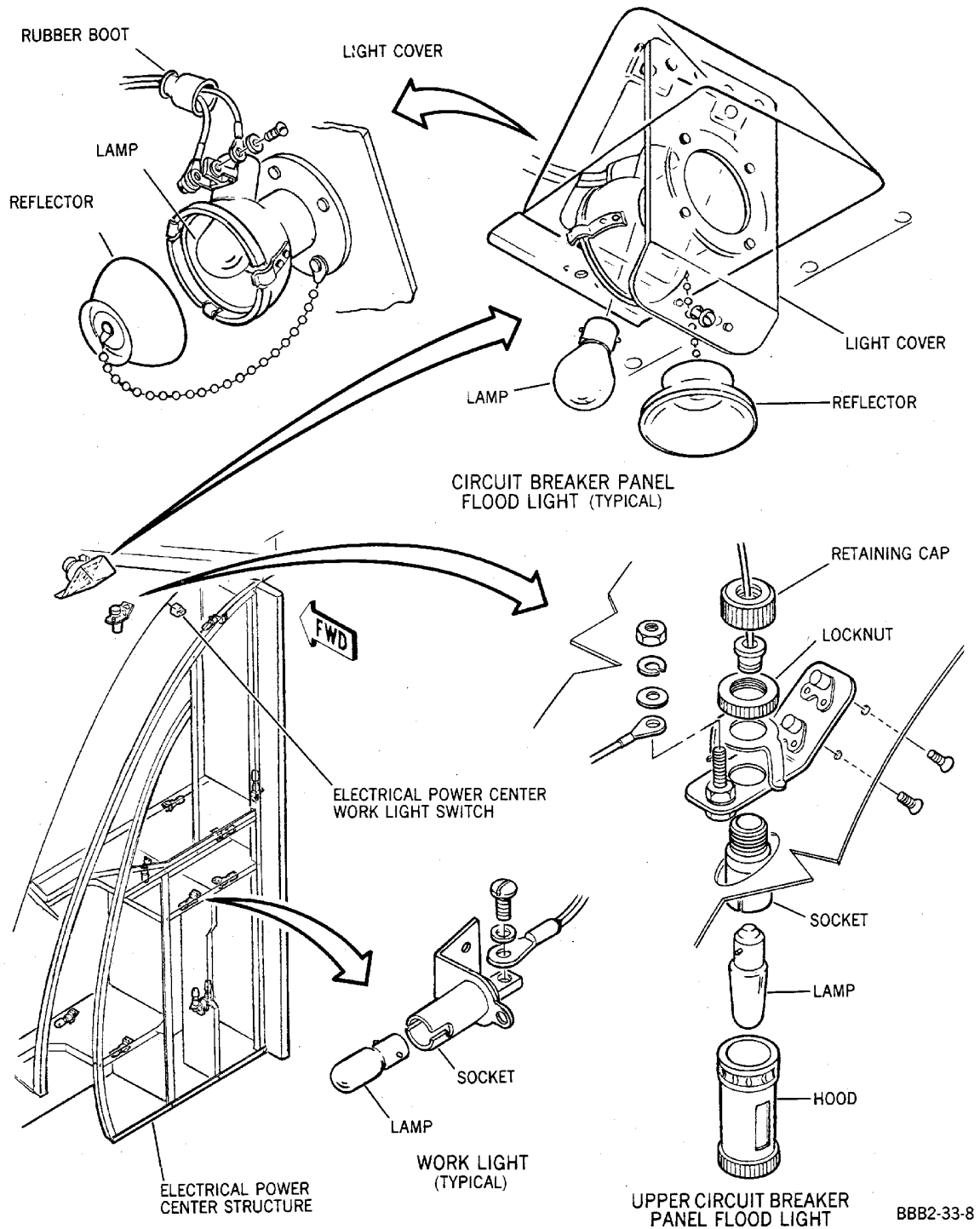
**Floodlights -- Removal/Installation  
Figure 202/33-10-00-990-802**

EFFECTIVITY  
WJE ALL

**33-10-00**

TP-80MM-WJE

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



**Circuit Breaker Panel Floodlights and Work Lights -- Removal/Installation**  
**Figure 203/33-10-00-990-803**

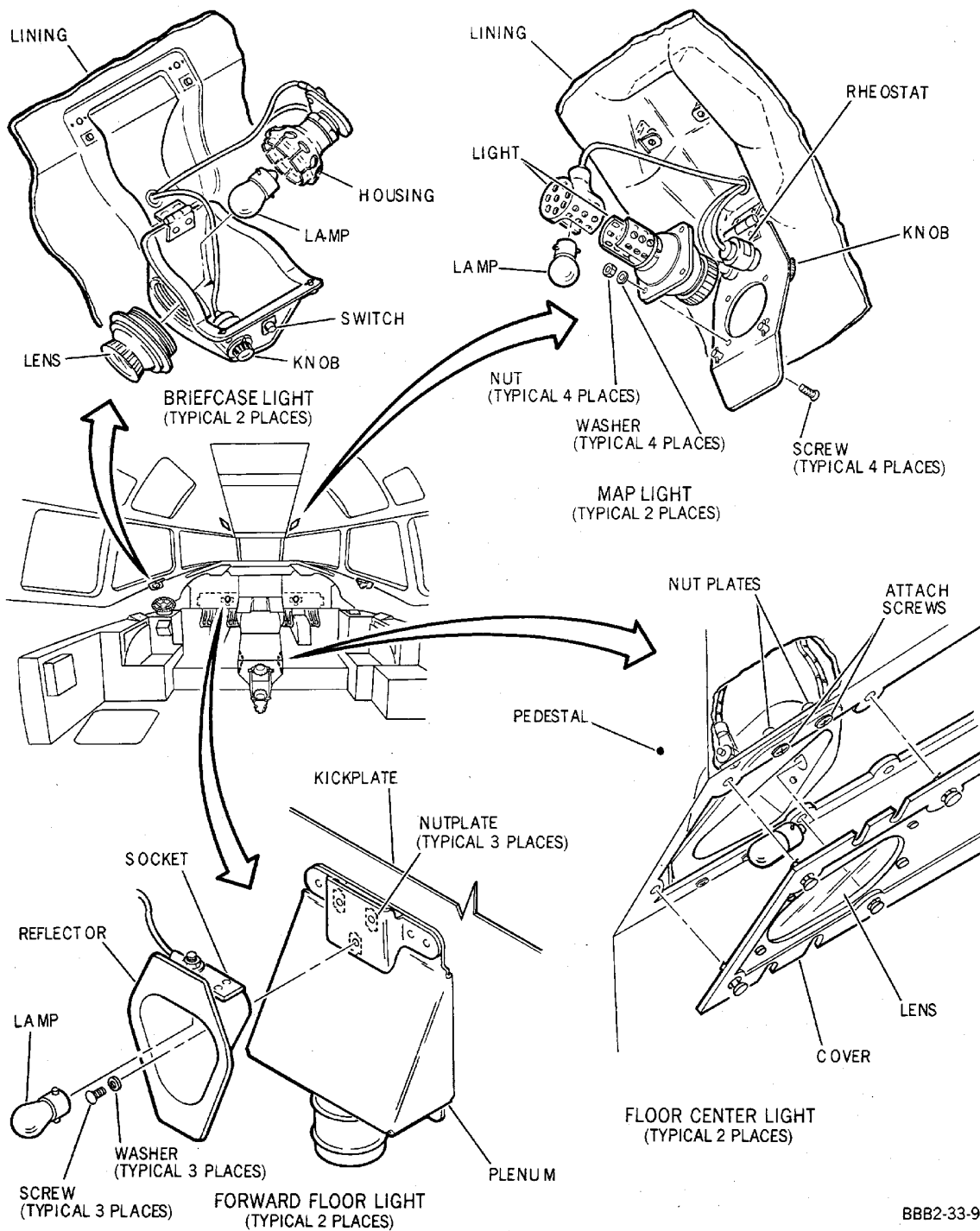
EFFECTIVITY  
WJE ALL

**33-10-00**

TP-80MM-WJE

Page 206  
Feb 01/2015

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



BBB2-33-9

**Utility Lights -- Removal/Installation**  
**Figure 204/33-10-00-990-804**

EFFECTIVITY  
WJE 415-419, 421, 423, 426, 861-866, 868, 869, 871, 872

TP-80MM-WJE

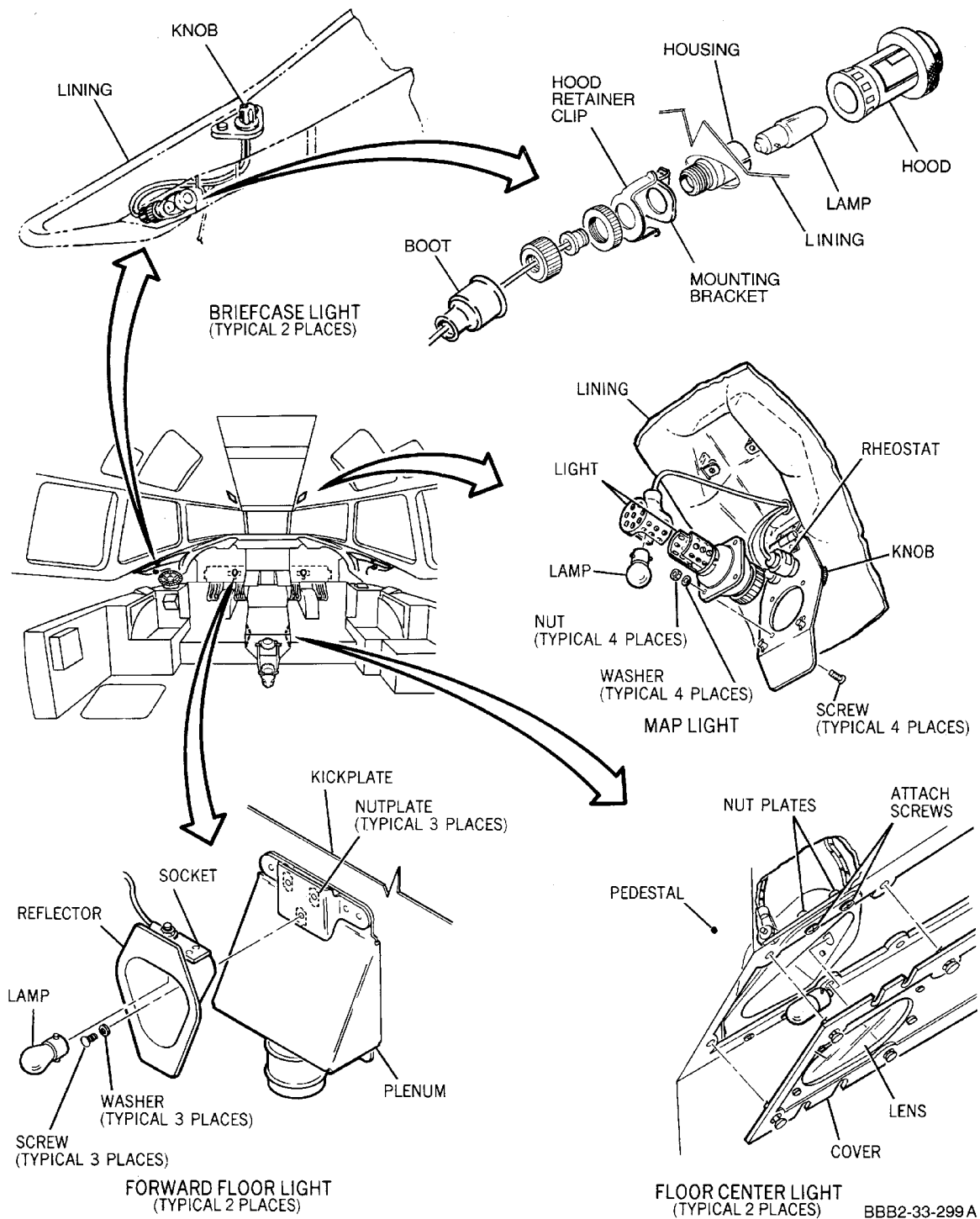
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**33-10-00**

Page 207  
Feb 01/2015

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



**Utility Lights -- Removal/Installation  
Figure 205/33-10-00-990-853**

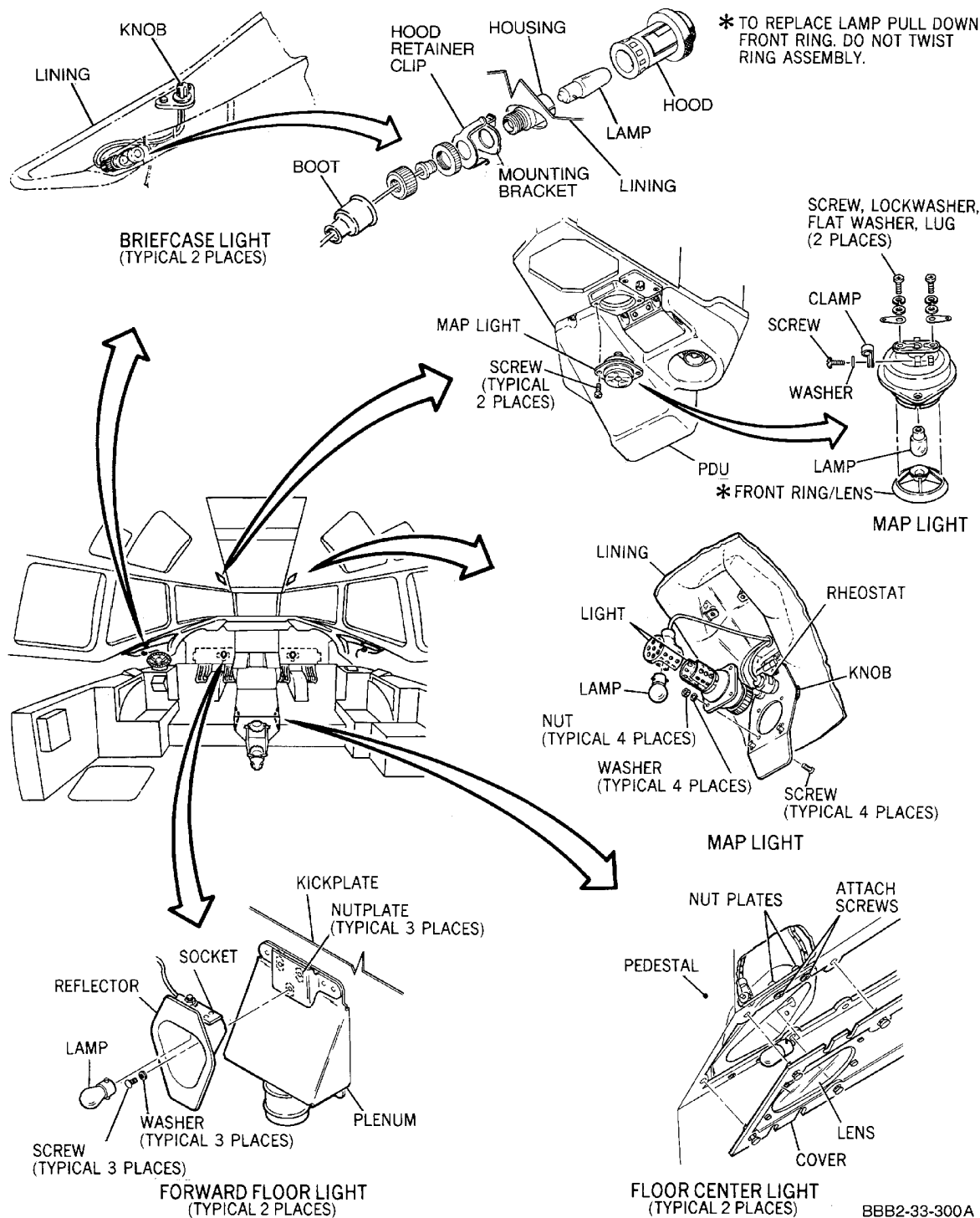
EFFECTIVITY  
WJE 401-404, 412, 414, 420, 422, 424, 425, 427, 429,  
873-879, 891-893

**33-10-00**

TP-80MM-WJE

Page 208  
Feb 01/2016

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



BBB2-33-300A

**Utility Lights -- Removal/Installation  
Figure 206/33-10-00-990-854**

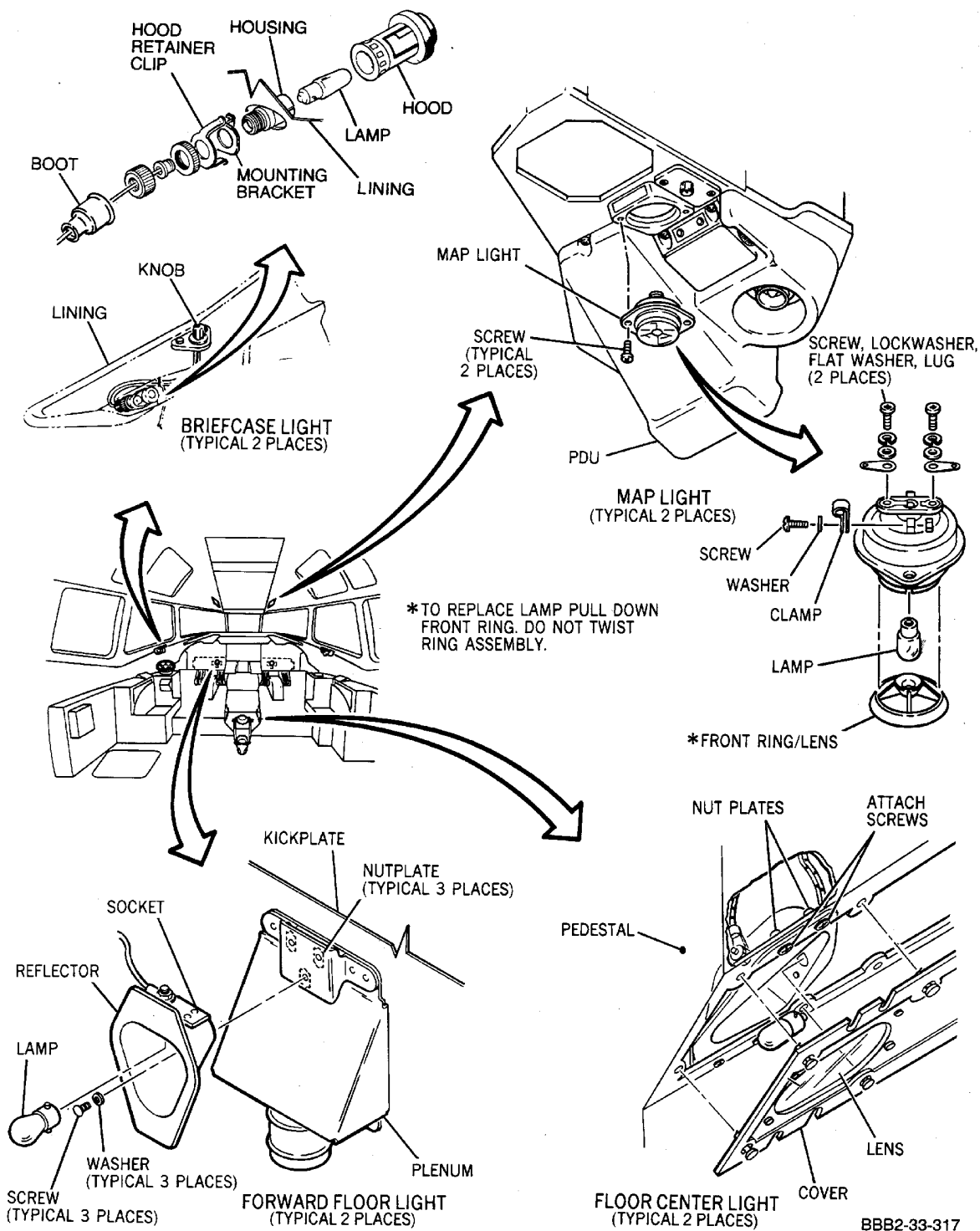
EFFECTIVITY  
WJE 405-411, 880, 881, 883, 884

**33-10-00**

TP-80MM-WJE



**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



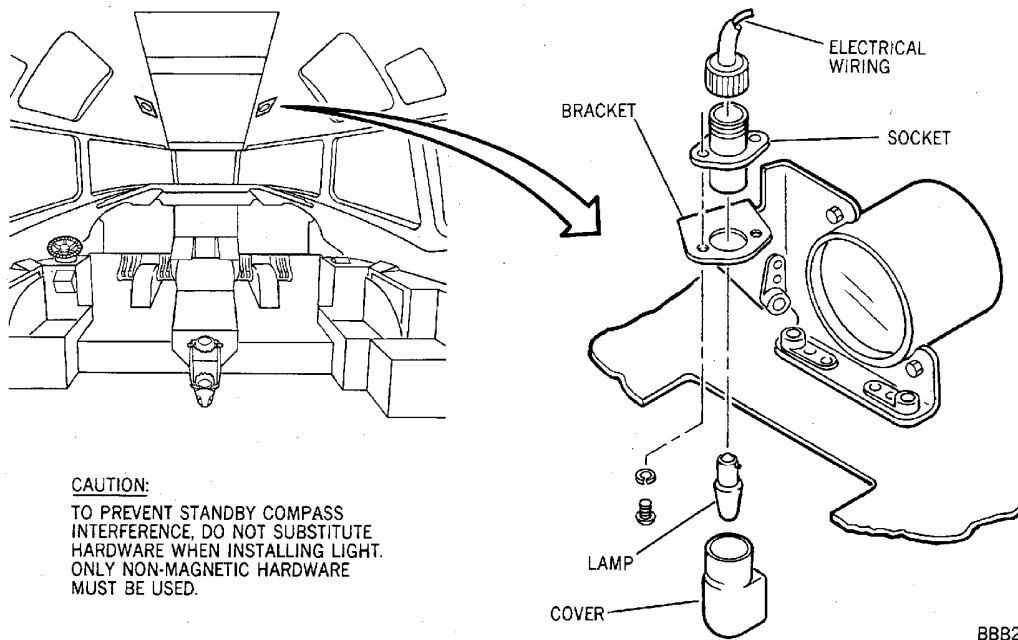
**Utility Lights -- Removal/Installation  
Figure 207/33-10-00-990-855**

EFFECTIVITY  
WJE 886, 887

**33-10-00**

TP-80MM-WJE

# MD-80 AIRCRAFT MAINTENANCE MANUAL



**CAUTION:**  
TO PREVENT STANDBY COMPASS  
INTERFERENCE, DO NOT SUBSTITUTE  
HARDWARE WHEN INSTALLING LIGHT.  
ONLY NON-MAGNETIC HARDWARE  
MUST BE USED.

BBB2-33-10

**Standby Compass Light -- Removal/Installation  
Figure 208/33-10-00-990-810**

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

## 33-10-00

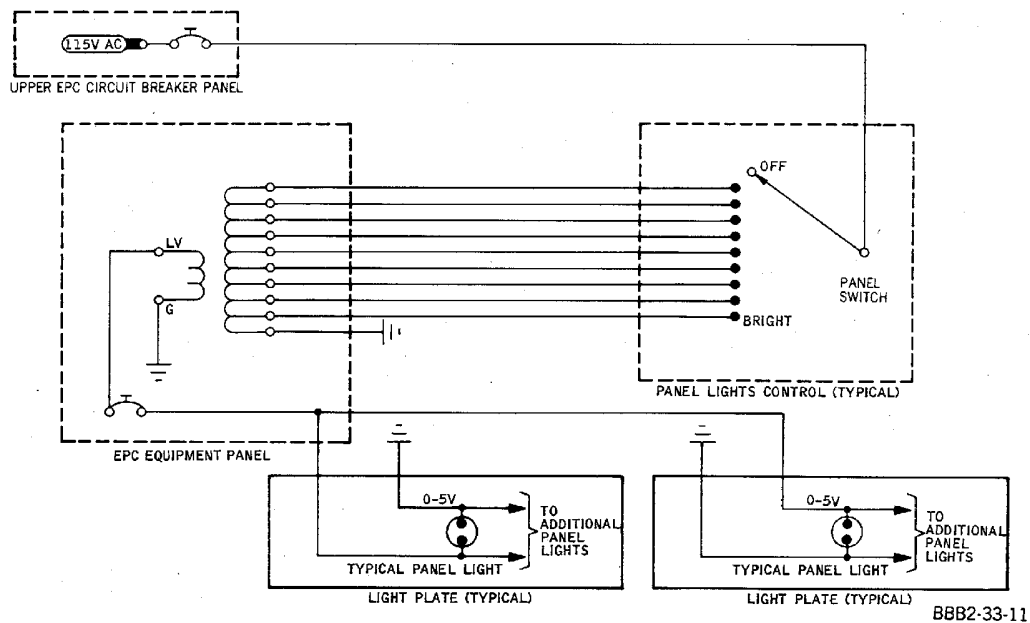
Page 211  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### CONTROL PANEL LIGHTING - DESCRIPTION AND OPERATION

**1. General**

- A. The control panel lighting is provided by lightplates, consisting of a plastic panel and a circuit board. White lettering on a black background is used on the panel faces. Miniature 0- to 5-volt lamps, soldered to the circuit board, fit in recesses in the plastic panel. The lamps are located to distribute light evenly throughout the plastic panel so the white lettering on the panel face may be read easily.
- B. Circuit connection to a power source is made through a terminal pin and ground sleeve installed on the circuit board. The mating connector is attached to the applicable panel support plate.
- C. Sealing tape, applied to periphery of lightplate and around the edges of large cutouts, minimizes entry of moisture or particles which may damage or short the circuit.
- D. Lamps may be replaced by separating the lamp circuit board and light panel.
- E. Lighting for lightplates on flight guidance control panel and navigation control panels on the glareshield is covered in AUTO FLIGHT, CHAPTER 22.



**Control Panel Lighting -- Simplified Schematic  
Figure 1/33-11-00-990-801**

EFFECTIVITY  
WJE ALL

**33-11-00**

TP-80MM-WJE

Page 1  
Feb 01/2015

**MD-80**  
**AIRCRAFT MAINTENANCE MANUAL**  
**LIGHTPLATES - MAINTENANCE PRACTICES**

**1. General**

A. The following procedures are given for removal and installation of the lightplates on the various control panels and instruments in the flight compartment.

**2. Equipment and Materials**

NOTE: Equivalent substitutes may be used instead of the following listed items:

NOTE: It is possible that some materials in the Equipment and Materials List cannot be used for some or all of their necessary applications. Before you use the materials, make sure the types, quantities, and applications of the materials necessary are legally permitted in your location. All persons must obey all applicable federal, state, local, and provincial laws and regulations when it is necessary to work with these materials.

**Table 201**

Name and Number	Manufacturer
Sealing tape, 3/8 inch (9.525mm) MIL-L-15126 Type ACT	

**3. Removal/Installation Lightplates**

A. Remove Lightplate

**WARNING:** TAG AND SAFETY CIRCUIT BREAKER.

(1) Open and tag these circuit breakers for applicable panel lightplate that is being removed:

**UPPER EPC, LIGHTS - LEFT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	15	B1-300	INTEGRAL LIGHTS CAPTAIN'S INST PANEL
K	16	B1-312	INTEGRAL LIGHTS OVERHEAD PANEL FWD
K	17	B1-315	INTEGRAL LIGHTS OVERHEAD PANEL AFT
K	18	B1-306	INTEGRAL LIGHTS CENTER INST PANEL
K	19	B1-309	INTEGRAL LIGHTS PEDESTAL

**UPPER EPC, LIGHTS - RIGHT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
L	17	B1-303	INTEGRAL LIGHTS F/O INST PANEL

NOTE: The listing under the Panel column refers to all lightplates located on that panel.

- (2) Remove switch knobs and handles that interfere with light-plate removal.
- (3) Remove screws that attach lightplate to support plate.
- (4) Remove lightplate by lifting carefully, applying pressure adjacent to small plus sign (+) to disconnect electrical connector.
- (5) Separate panel from circuit board by removing connecting screws and sealing tape.
- (6) Remove burned out lamps with soldering iron.

B. Install Lightplate

EFFECTIVITY	
WJE ALL	

33-11-01

TP-80MM-WJE

## MD-80 AIRCRAFT MAINTENANCE MANUAL

**WARNING:** TAG AND SAFETY CIRCUIT BREAKERS.

- (1) Make certain applicable following circuit breakers are open and tagged:

**UPPER EPC, LIGHTS - LEFT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	15	B1-300	INTEGRAL LIGHTS CAPTAIN'S INST PANEL
K	16	B1-312	INTEGRAL LIGHTS OVERHEAD PANEL FWD
K	17	B1-315	INTEGRAL LIGHTS OVERHEAD PANEL AFT
K	18	B1-306	INTEGRAL LIGHTS CENTER INST PANEL
K	19	B1-309	INTEGRAL LIGHTS PEDESTAL

**UPPER EPC, LIGHTS - RIGHT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
L	17	B1-303	INTEGRAL LIGHTS F/O INST PANEL

- (2) Install new lamps as required.  
 (3) Raise lamps off circuit board so lamps will be in contact with top of lamp recess after assembly.  
 (4) Position circuit board on lightplate assembly securing it with screws.

NOTE: Screws must be straight on entry and tightened to snug fit only.

- (5) Apply 3/8-inch (9.525 mm) width sealing tape, the color of the lightplate, to outer periphery of lightplate and around edges of large cutouts (Figure 202).

NOTE: Tape is not used on curved pedestal lightplates.

- (6) Perform functional test by applying 5-volt current at electrical connector and observe, through circuit board, that all lamps are on.  
 (7) Install lightplate on support plate by applying pressure over electrical connector and securing it with attaching screws.

NOTE: Make certain that 0.015 inch (0.38 mm) clearance exists between each throttle lever and the lightplate substrate (the brown phenolic below black lightplate enclosure). Trim lightplate substrate as required to obtain clearance.

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

**UPPER EPC, LIGHTS - LEFT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	15	B1-300	INTEGRAL LIGHTS CAPTAIN'S INST PANEL
K	16	B1-312	INTEGRAL LIGHTS OVERHEAD PANEL FWD
K	17	B1-315	INTEGRAL LIGHTS OVERHEAD PANEL AFT
K	18	B1-306	INTEGRAL LIGHTS CENTER INST PANEL
K	19	B1-309	INTEGRAL LIGHTS PEDESTAL

**UPPER EPC, LIGHTS - RIGHT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
L	17	B1-303	INTEGRAL LIGHTS F/O INST PANEL

- (9) Place appropriate switch in the on position to check proper operation of lights.

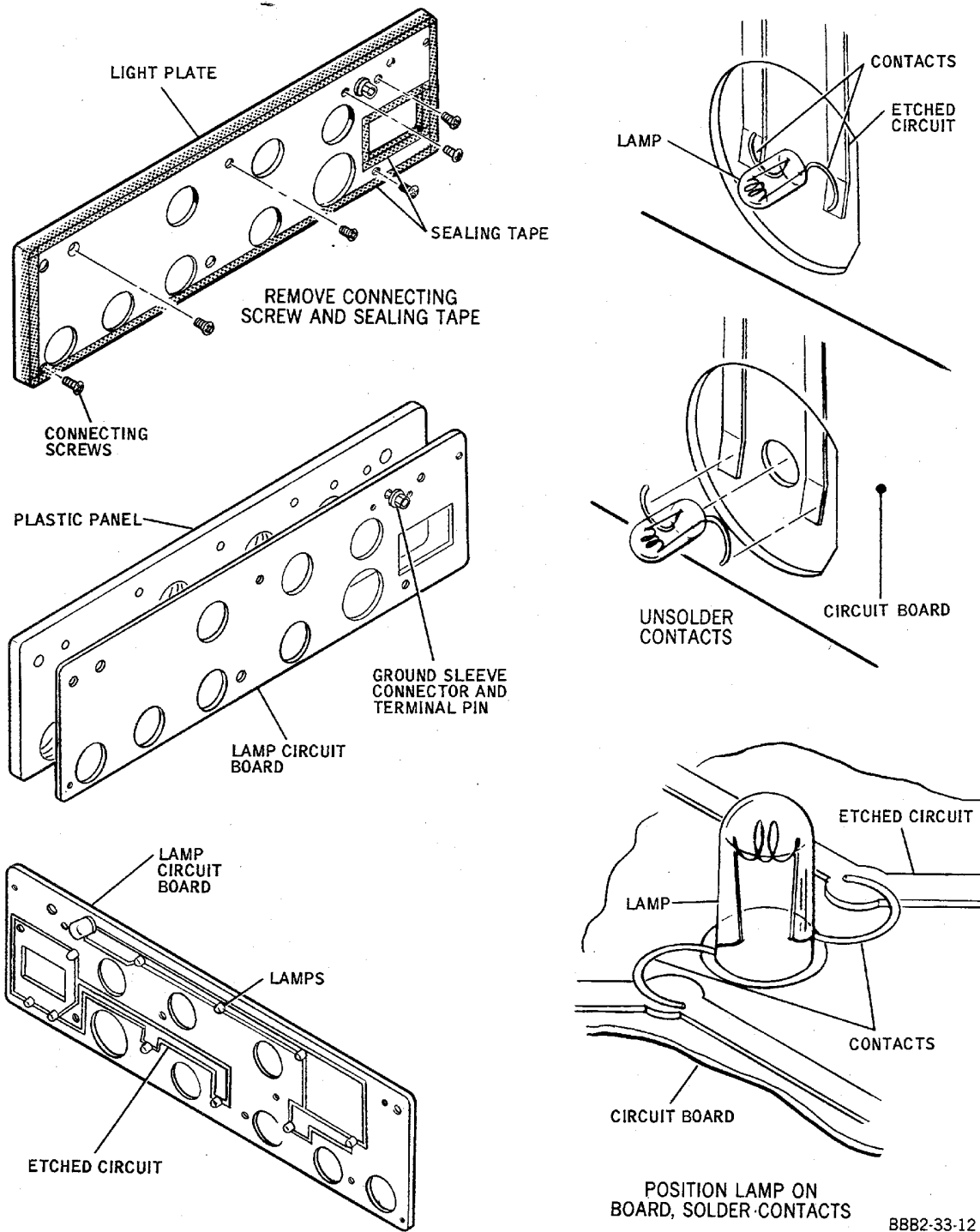
EFFECTIVITY  
WJE ALL

TP-80MM-WJE

**33-11-01**

Page 202  
Feb 01/2015

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



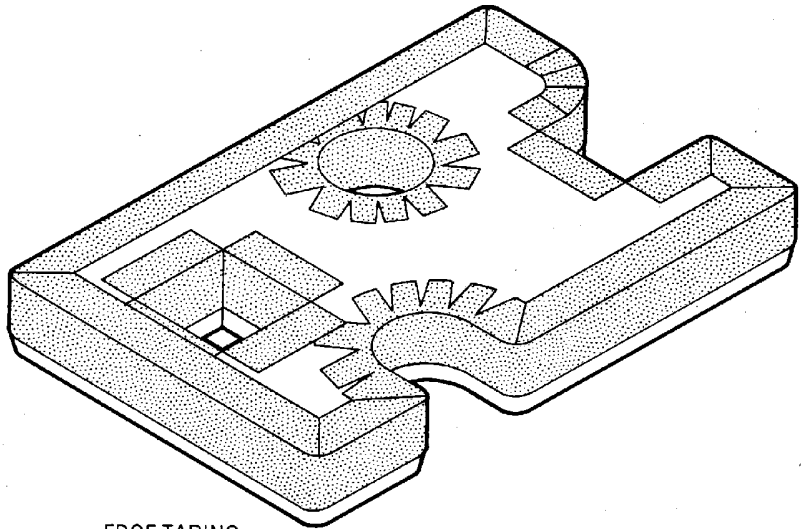
BBB2-33-12

**Lightplate Panel Assembly  
Figure 201/33-11-01-990-801**

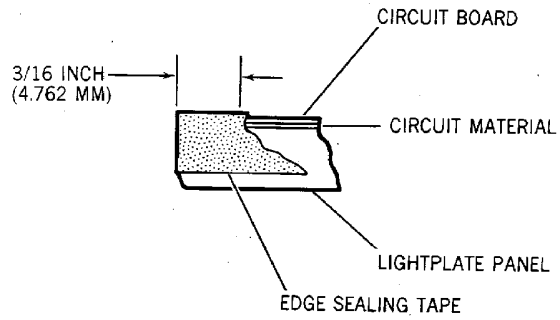
EFFECTIVITY  
WJE ALL

**33-11-01**

# MD-80 AIRCRAFT MAINTENANCE MANUAL



EDGE TAPING



BB82-33-17A

**Sealing Tape Installation**  
**Figure 202/33-11-01-990-802**

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

## 33-11-01

# MD-80 AIRCRAFT MAINTENANCE MANUAL

## LIGHTING CONTROL PANELS - DESCRIPTION AND OPERATION

### 1. General

- A. The lighting control panels consist of the captain's instrument panel lights control, the first officer's instrument panel lights control, the center instrument panel and pedestal lights control, and the overhead console lights control. Each panel controls the white flood, and integral instrument, and panel lights in a particular area of the flight compartment as follows:

**Table 1**

Control Panel	Location	Lighting Controlled
Captain's instrument panel lights	Outboard side of Captain's instrument panel	Captain's instrument panel and left console
First officer's instrument panel lights	Outboard side of first officer's instrument panel	First officer's instrument panel and right console
Center instrument panel and pedestal lights	Forward pedestal	Center instrument panel, upper main instrument panel, glareshield, and control pedestal
Overhead console lights	Forward overhead switch panel	Forward overhead switch panel, aft overhead switch panel, and map lights lightplates.

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WJE ALL

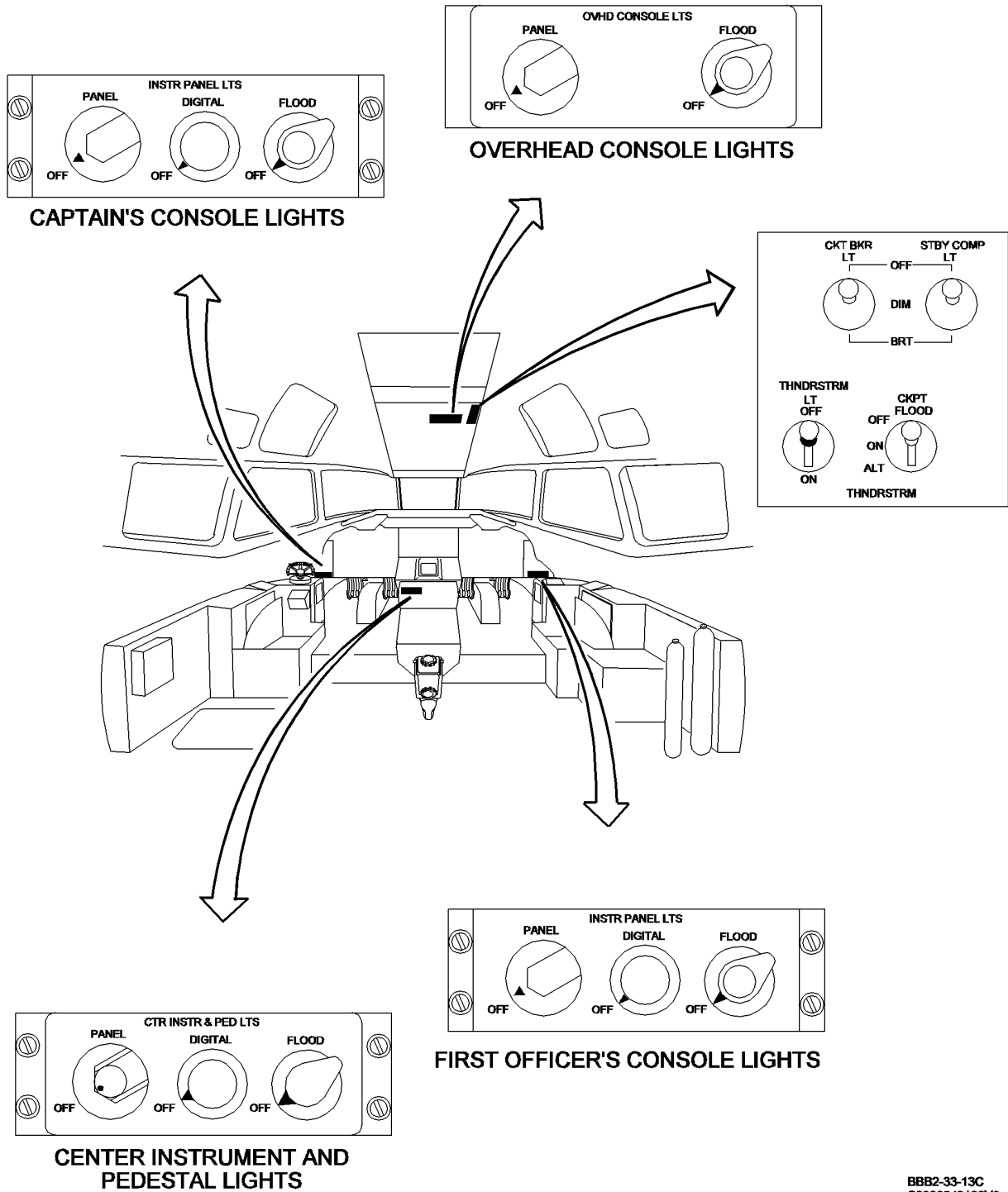
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**33-11-02**

Page 1  
Feb 01/2015



**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



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**Lighting Control Panels  
Figure 1/33-11-02-990-801**

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

**33-11-02**

# MD-80 AIRCRAFT MAINTENANCE MANUAL

## LIGHTING CONTROL PANELS - REMOVAL/INSTALLATION

### 1. General

- A. The following procedures are given for removal and installation of the lighting control panels. It is not necessary to remove a lighting control panel to replace a lightplate. Replacement can be accomplished by removing the control knobs and the lightplate attaching screw from the face of the panel. When lightplate replacement is accomplished, rotate the panel lights control knob clockwise to verify proper operation of the lightplate.

### 2. Removal/Installation Lighting Control Panels

- A. Remove Lighting Control Panel

**WARNING:** TAG AND SAFETY CIRCUIT BREAKERS.

- (1) Open and tag following circuit breakers applicable to lighting control panel being removed:

#### **LOWER EPC, DC TRANSFER BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	39	B1-292	COCKPIT WHITE FLOOD LIGHTS

#### **LOWER EPC, LIGHTS - LEFT DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
M	32	B1-845	CAPTAIN'S DIGITAL DISPLAY
M	33	B1-293	COCKPIT OVERHEAD WHITE FLOOD

#### **LOWER EPC, LIGHTS - R DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
N	33	B1-847	DIGITAL DISPLAY FIRST OFFICER'S

#### **OVERHEAD EMERGENCY DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 401-409, 411, 412, 414-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893</b>			
A	15	B1-479	CAPT & F/O WHITE FLOOD LIGHTS

#### **WJE 410**

A	16	B1-479	CAPT & F/O WHITE FLOOD LIGHTS
---	----	--------	-------------------------------

#### **WJE ALL**

#### **UPPER EPC, LIGHTS - LEFT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	15	B1-300	INTEGRAL LIGHTS CAPTAIN'S INST PANEL
K	16	B1-312	INTEGRAL LIGHTS OVERHEAD PANEL FWD
K	17	B1-315	INTEGRAL LIGHTS OVERHEAD PANEL AFT
K	18	B1-306	INTEGRAL LIGHTS CENTER INST PANEL
K	19	B1-309	INTEGRAL LIGHTS PEDESTAL

#### **UPPER EPC, LIGHTS - RIGHT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
L	17	B1-303	INTEGRAL LIGHTS F/O INST PANEL
L	18	B1-299	INST PANEL FLUORESCENT

- (2) Loosen fasteners on face of control panel to gain access to electrical connector.

EFFECTIVITY  
WJE ALL

# 33-11-02

TP-80MM-WJE

## MD-80 AIRCRAFT MAINTENANCE MANUAL

**CAUTION:** MAKE CERTAIN WIRE HARNESS IS TAGGED TO PREVENT CROSS CONNECTION AND DAMAGE TO EQUIPMENT.

(3) Tag wire harness and disconnect and cap electrical connector. Remove control panel.

B. Install Lighting Control Panel

**WARNING:** TAG AND SAFETY CIRCUIT BREAKERS.

(1) Make certain applicable following circuit breakers are open and tagged:

### LOWER EPC, DC TRANSFER BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	39	B1-292	COCKPIT WHITE FLOOD LIGHTS

### LOWER EPC, LIGHTS - LEFT DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
M	32	B1-845	CAPTAIN'S DIGITAL DISPLAY
M	33	B1-293	COCKPIT OVERHEAD WHITE FLOOD

### LOWER EPC, LIGHTS - R DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
N	33	B1-847	DIGITAL DISPLAY FIRST OFFICER'S

### OVERHEAD EMERGENCY DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 401-409, 411, 412, 414-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893</b>			
A	15	B1-479	CAPT & F/O WHITE FLOOD LIGHTS
<b>WJE 410</b>			
A	16	B1-479	CAPT & F/O WHITE FLOOD LIGHTS
<b>WJE ALL</b>			

### UPPER EPC, LIGHTS - LEFT AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	15	B1-300	INTEGRAL LIGHTS CAPTAIN'S INST PANEL
K	16	B1-312	INTEGRAL LIGHTS OVERHEAD PANEL FWD
K	17	B1-315	INTEGRAL LIGHTS OVERHEAD PANEL AFT
K	18	B1-306	INTEGRAL LIGHTS CENTER INST PANEL
K	19	B1-309	INTEGRAL LIGHTS PEDESTAL

### UPPER EPC, LIGHTS - RIGHT AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
L	17	B1-303	INTEGRAL LIGHTS F/O INST PANEL
L	18	B1-299	INST PANEL FLUORESCENT

(2) Remove cap and tag from wire harness and connect electrical connector to control panel.

(3) Position control panel on mount and secure fasteners.

EFFECTIVITY  
WJE ALL

# 33-11-02

TP-80MM-WJE

Page 402  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

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

### LOWER EPC, DC TRANSFER BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	39	B1-292	COCKPIT WHITE FLOOD LIGHTS

### LOWER EPC, LIGHTS - LEFT DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
M	32	B1-845	CAPTAIN'S DIGITAL DISPLAY
M	33	B1-293	COCKPIT OVERHEAD WHITE FLOOD

### LOWER EPC, LIGHTS - R DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
N	33	B1-847	DIGITAL DISPLAY FIRST OFFICER'S

### OVERHEAD EMERGENCY DC BUS

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

WJE 401-409, 411, 412, 414-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893

A	15	B1-479	CAPT & F/O WHITE FLOOD LIGHTS
---	----	--------	-------------------------------

#### WJE 410

A	16	B1-479	CAPT & F/O WHITE FLOOD LIGHTS
---	----	--------	-------------------------------

#### WJE ALL

### UPPER EPC, LIGHTS - LEFT AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	15	B1-300	INTEGRAL LIGHTS CAPTAIN'S INST PANEL
K	16	B1-312	INTEGRAL LIGHTS OVERHEAD PANEL FWD
K	17	B1-315	INTEGRAL LIGHTS OVERHEAD PANEL AFT
K	18	B1-306	INTEGRAL LIGHTS CENTER INST PANEL
K	19	B1-309	INTEGRAL LIGHTS PEDESTAL

### UPPER EPC, LIGHTS - RIGHT AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
L	17	B1-303	INTEGRAL LIGHTS F/O INST PANEL
L	18	B1-299	INST PANEL FLUORESCENT

- (5) Perform inspection/check to check proper operation of circuit.

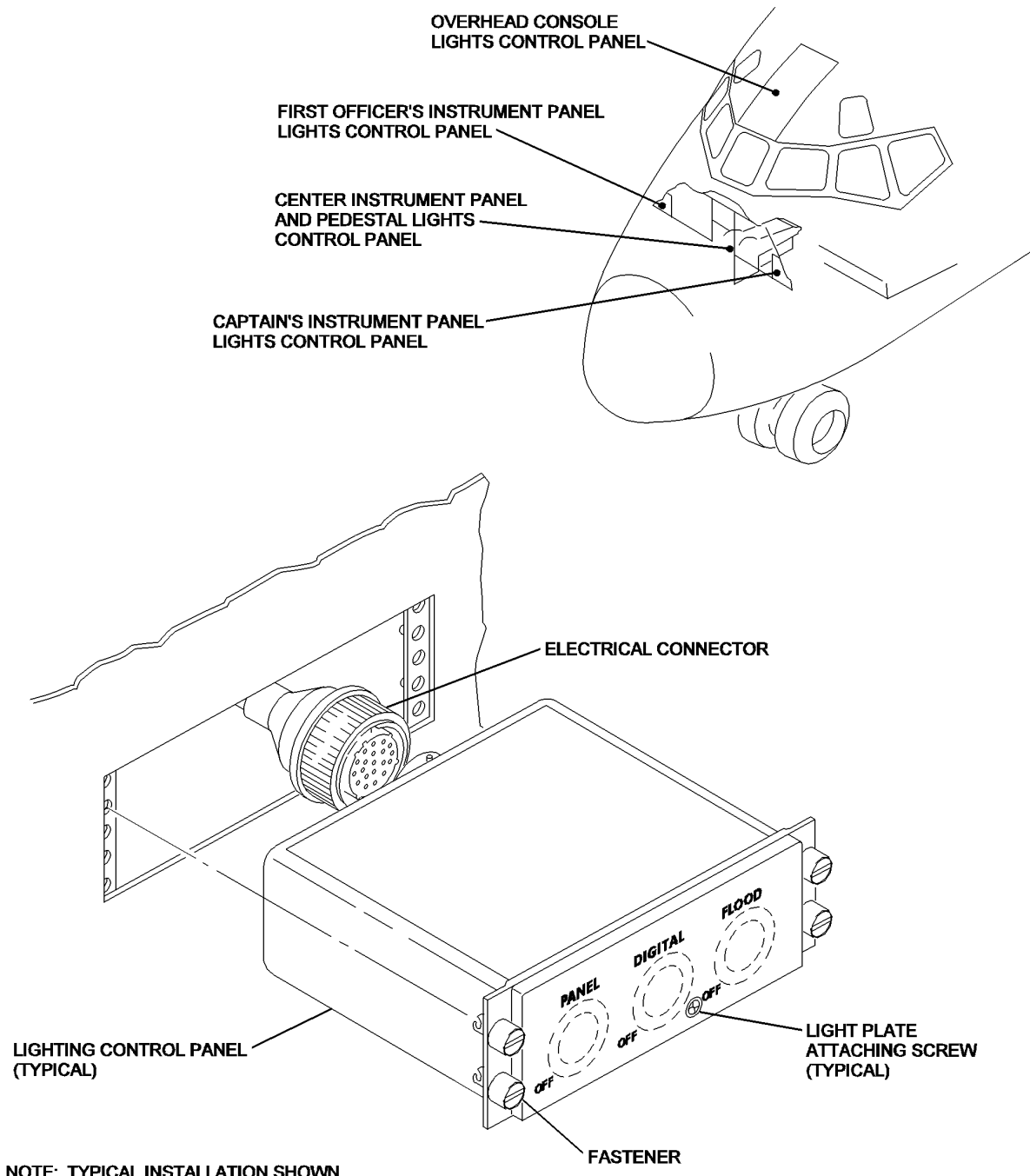
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WJE ALL

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# 33-11-02

Page 403  
Feb 01/2016

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



**NOTE:** TYPICAL INSTALLATION SHOWN FOR LIGHTING CONTROL PANELS. KNOBS OMITTED FOR CLARITY.

BBB2-33-14A  
S0006542174V2

**Lighting Control Panels  
Figure 401/33-11-02-990-802**

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**33-11-02**

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# MD-80 AIRCRAFT MAINTENANCE MANUAL

## LIGHTING CONTROL PANELS - CHECK

### 1. General

- A. The following procedures provide a functional check of the lighting control panels. While performing each check, slowly rotate the control knob to the full clockwise position and the corresponding lights should gradually increase in intensity. The lights should not flicker at any position of the control knob. When each check is completed, return the control knob to the off position.

### 2. Check Lighting Control Panels

- A. Check Lighting Control Panels

- (1) Rotate following control knobs clockwise and verify that corresponding lights come on:

**Table 601**

Panel	Control Knob	Lights
Captain's INSTR PANEL LTS	PANEL	Integral panel and instrument lights on captain's instrument panel and left console.
	DIGITAL	Integral panel on digital display indicators on captain's instrument panel.
	FLOOD (small tandem knob)	Incandescent flood lights on underside of glareshield (left side).
First officer's instrument panel lights	FLOOD (large tandem knob)	Fluorescent lights on underside of glare shield (left side).
	PANEL	Integral panel and instrument lights on first officer's instrument panel and right console.
	DIGITAL	Integral panel on digital display indicators on first officer's instrument panel.
	FLOOD (small tandem knob)	Incandescent flood lights on underside of glareshield (right side).
Center instrument panel and pedestal lights	FLOOD (large tandem knob)	Fluorescent lights on underside of glare shield (right side).
	PANEL (small tandem knob)	Integral panel and instrument lights on center instrument panel, glareshield, and upper main instrument panel.
	PANEL (large tandem knob)	Integral panel and instrument lights on control pedestal.
	DIGITAL	Integral panel on digital display indicators on center instrument and pedestal panels.
	FLOOD	Floodlights under center of glare shield and two flood lights in ceiling.
Overhead console lights	PANEL	Integral panel and instrument lights on forward and aft overhead switch panels and map lights lightplates.
	FLOOD	Floodlights on flight compartment bulkhead.

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**33-11-02**

TP-80MM-WJE

Page 601  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### MASTER WARNING AND CAUTION SYSTEM - DESCRIPTION AND OPERATION

#### 1. General

**WJE 405, 407-411, 416, 420, 422, 424-427, 429, 861, 862, 868, 873, 874, 880, 881, 883, 884, 891-893**

- A. The master warning and caution system consists of master warning and caution lights on the glareshield, an annunciator panel for visual indication of fault signals, and a controller which controls switching of the warning and caution circuits.
- B. There are two sets of master warning and caution lights installed on the glareshield: one set in front of the captain and one set in front of the first officer. The caps are keyed mechanically to the light assembly to prevent interchanging light caps. The master warning lights on the glareshield are connected in the system to come on when any warning light on the annunciator panel comes on. Only certain caution lights on the annunciator panel are connected to the master caution light circuit. The master warning and caution lights can be turned off by depressing the light cap.
- C. The annunciator panel, located on the overhead switch panel, contains a series of warning and caution lights which operate in conjunction with the master warning and caution lights installed on the glareshield. The panel also includes all components which provide dimming of the lights and testing of all annunciator circuits. The annunciator lights operate when the circuits are closed to ground. The circuitry has transistors, silicon-controlled rectifiers, relays, and various switches to accomplish ground switching.
- D. The warning and caution lights on the annunciator panel are arranged according to airplane system. Each annunciator has a legend which describes the appropriate system malfunction. Red lights indicate a warning malfunction, requiring immediate corrective action. Amber lights indicate a caution malfunction and require attention, but not necessarily immediate action. Blue advisory lights are also installed on the panel but are not connected to the master warning and caution system. Although the master warning and caution lights can be turned off by depressing the lens, the annunciator lights remain on until the system malfunction is corrected. The master caution lights will automatically reset when the failures are no longer present.

**WJE 401-404, 406, 412, 414, 415, 417-419, 421, 423, 863-866, 869, 871, 872, 875-879, 886, 887**

- E. The master warning and caution system consists of master warning and caution lights on the glareshield, an EOAP (Electronic Overhead Annunciator Panel) for visual indication of fault signals, and a controller which controls switching of the warning and caution circuits.
- F. There are two sets of master warning and caution lights installed on the glareshield: one set in front of the captain and one set in front of the first officer. The caps are keyed mechanically to the light assembly to prevent interchanging light caps. The master warning lights on the glareshield are connected in the system to come on when any warning light on the EOAP comes on. Only certain caution LED displays on the annunciator panel are connected to the master caution light circuit. The master warning and caution lights can be turned off by depressing the light cap.
- G. The Electronic Overhead Annunciator Panel (EOAP) is located in the overhead switch panel. It contains a series of warning lights and caution displays which operate in conjunction with the master warning and caution lights installed on the glareshield. The overhead panel contains ANNUN/DIGITAL LTS TEST switch for testing annunciator and LED illumination. The overhead panel also contains the PULL TO DIM knob for adjusting the brightness of all annunciators/displays except the DOOR annunciators/messages.

**NOTE:** The EOAP will "Time Out" (both screens, cue switches and scroll arrows blank) when 3 of the 4 combinable messages (R&L OIL PRESS LOW, R&L GEN OFF, R&L HYD PRESS LOW, R&L CSD OIL PRESS LOW) are present for approximately 30 minutes. The EOAP will resume normal operation if any of the following events occur:

- The ANNUN/DIGITAL LTS TEST switch is activated.

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WJE ALL

**33-12-00**

TP-80MM-WJE

Page 1  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

**WJE 401-404, 406, 412, 414, 415, 417-419, 421, 423, 863-866, 869, 871, 872, 875-879, 886, 887 (Continued)**

- Any cue switch is activated.
  - A new message is received.
  - An old message is removed.
- H. The warning lights and caution LED displays on the annunciator panel are arranged according to aircraft system. Each annunciator has a legend which describes the appropriate system malfunction. Red lights indicate a warning malfunction, requiring immediate corrective action. Amber LED displays indicate a caution malfunction and require attention, but not necessarily immediate action. Blue advisory lights are also installed on the panel but are not connected to the master warning and caution system. The warning and advisory lights are located on the right side of the panel and the caution displays are shown on two LED screens on the opposite side. The LED screens have the capability of annunciating twelve caution displays, six displays per screen. To facilitate remaining annunciations, two amber lighted scroll (arrow) switches are provided to display any annunciations off screen. Eight amber lighted cue switches below the screen are also provided which enable system cautions to be annunciated when both screens are full. Seven cue switches are for various aircraft systems. The MON cue switch monitors the EOAP for internal faults. Whenever a caution input is received, the associated system cue light flashes four times and then goes out. These cue switches are only steadily illuminated if a message associated with that particular system is stored off screen. This enables system cautions to be displayed even if the screens are full. Pressing the illuminated cue switch displays any caution messages associated with that particular system on the LED screen. Although the master warning and caution lights can be turned off by depressing the lens, the annunciator lights and displays remain on until the system malfunction is corrected. The master caution lights will automatically reset when the failures are no longer present.

### **WJE ALL**

- I. The controller is a ground switching unit which controls electrical power to the master warning and caution lights and to the lights on the annunciator panel. It is located in the electrical/electronic compartment.

**WJE 405, 407-411, 416, 420, 422, 424-427, 429, 861, 862, 868, 873, 874, 880, 881, 883, 884, 891-893**

- J. A pushbutton-type test switch is located on the overhead switch panel, adjacent to the annunciator panel to verify lamp filament integrity and master light logic actuation. A pull-to-dim switch, located on the panel with the test switch, operates in conjunction with a resistor dimming box to dim the annunciator panel lights. The door caution lights on the annunciator panel and the master warning and caution lights on the glareshield cannot be dimmed.

EFFECTIVITY  
WJE ALL

**33-12-00**

TP-80MM-WJE

Page 2  
Feb 01/2016



## MD-80 AIRCRAFT MAINTENANCE MANUAL

WJE 401-404, 406, 412, 414, 415, 417-419, 421, 423, 863-866, 869, 871, 872, 875-879, 886, 887

- K. The ANNUN/DIGITAL LTS TEST switch is located on the overhead switch panel, adjacent to the annunciator panel. Depressing this switch tests all annunciator lights, scroll switch lights, Master Warning lights, Master Caution lights, and performs the LED display test. During the display test, the EOAP screens display scanning lighted vertical bars beginning at left and stepping, one position at a time, to the right. The ANNUN/DIGITAL LTS TEST switch also 'Grounds' two caution inputs, i.e. L OIL STRAINER CLOG and R OIL STRAINER CLOG. Consequently on application of the display test input one or both of these cautions may appear momentarily on the LED panels. On release of the switch the ENG system cue light can enter a flashing sequence. A pull-to-dim switch, located on the overhead panel, with the test switch, operates in conjunction with a resistor dimming box to dim the annunciator panel lights and displays. The DOOR cue switch light on the annunciator panel and the master warning and caution lights on the glareshield cannot be dimmed.

NOTE: If the ANNUN/DIGITAL LTS TEST switch is depressed for longer than 1 minute, the EOAP will automatically revert to normal operation. At this time the L&R OIL STRAINER CLOG messages will be displayed on the LED screen. The ANNUN/DIGITAL LTS TEST switch will have to be released to remove these messages. The Warning/Advisory Annunciators are not processor controlled and therefore will not time out. To re-activate display test the switch must be released for at least 2 seconds and then re-selected. If the ANNUN/DIGITAL LTS TEST switch is released and reactivated within 2 seconds then a condition can occur where the left screen will enter display test and the right screen will blank and the SCROLL and CUE lights will flash. On release of the switch, the panel will resume normal operation.

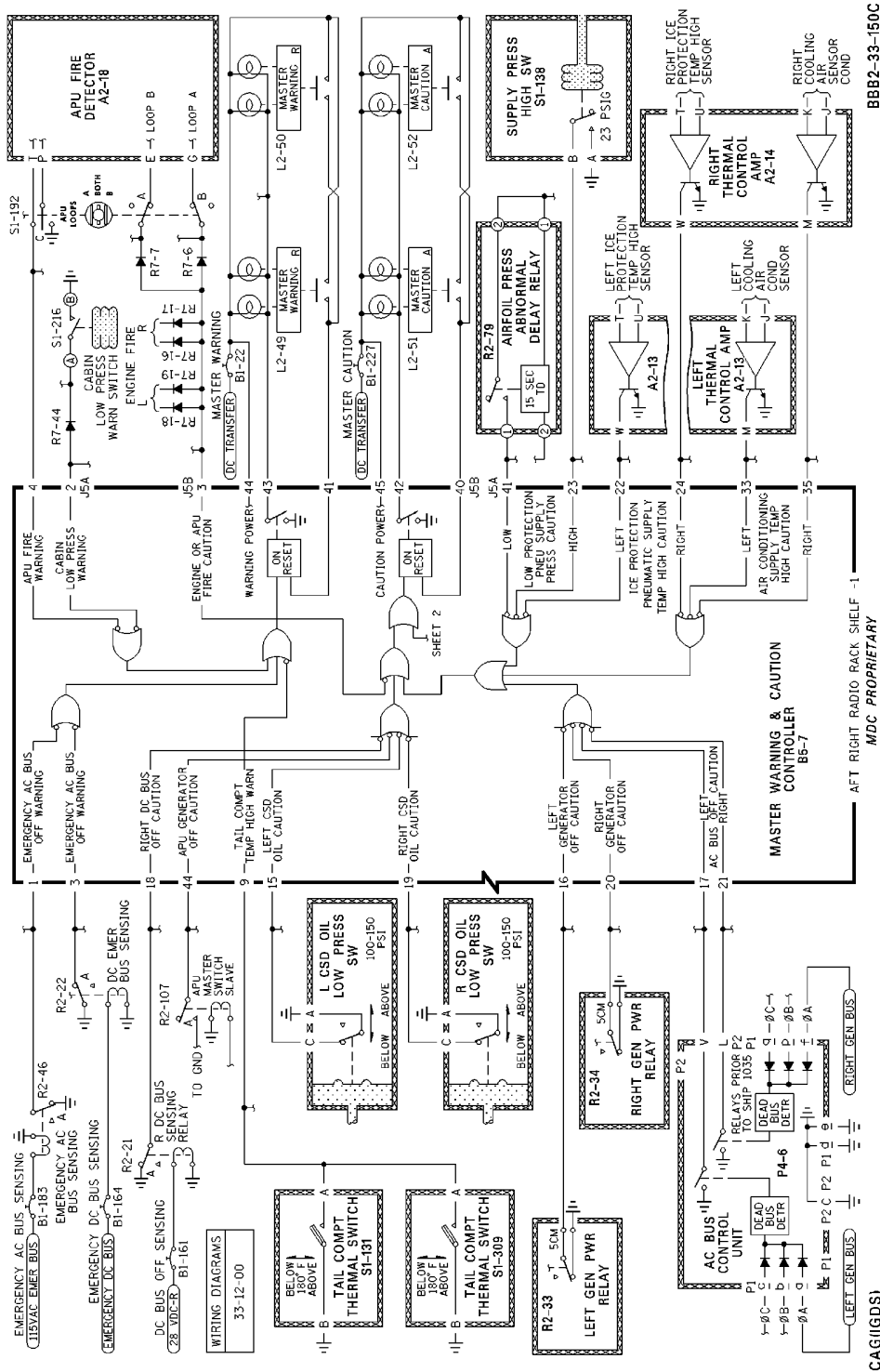
EFFECTIVITY  
WJE ALL

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Page 3  
Feb 01/2016

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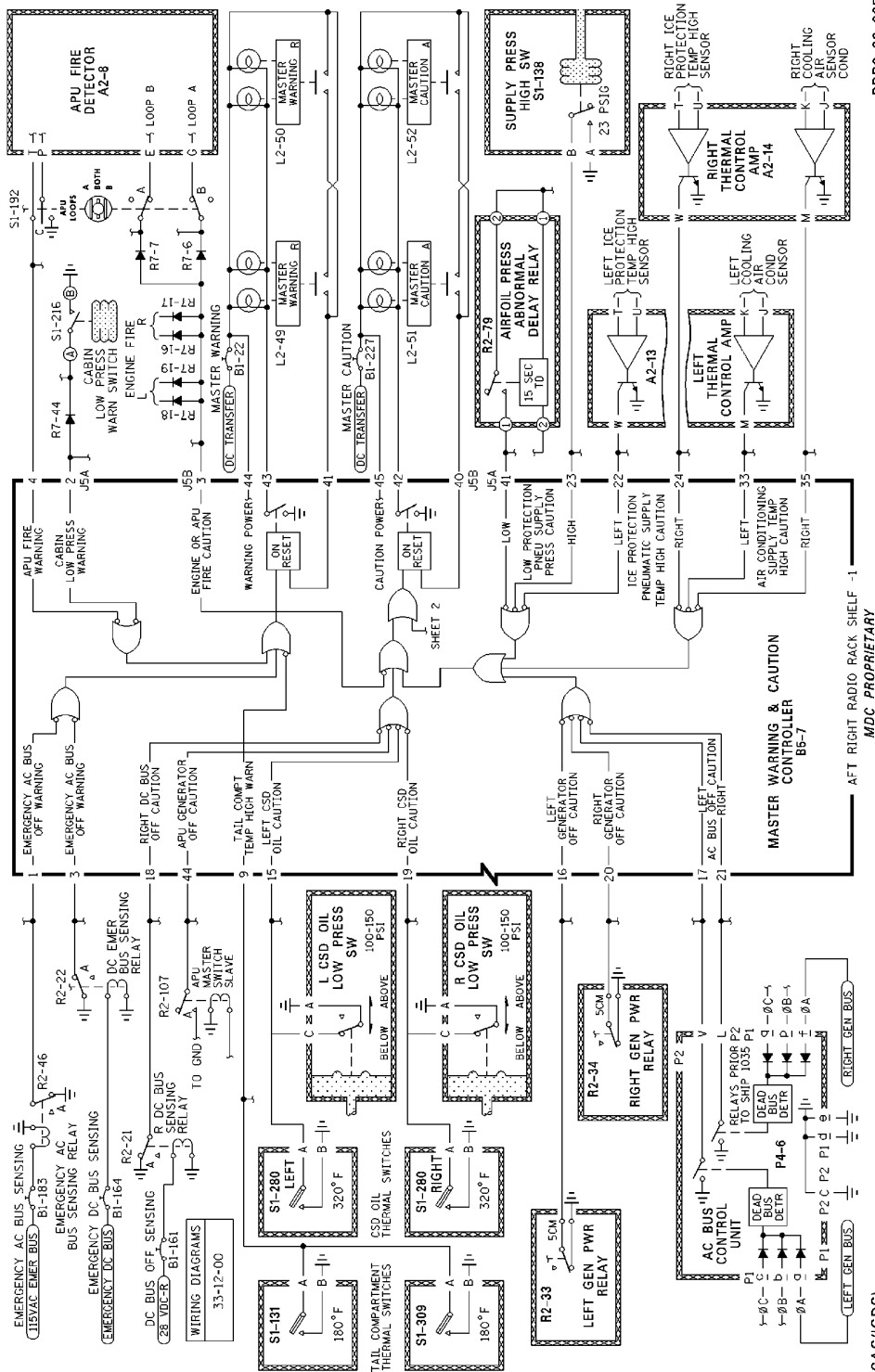


Master Warning and Caution -- System Schematic  
Figure 1/33-12-00-990-801 (Sheet 1 of 6)

EFFECTIVITY  
WJE 401-404, 406, 409, 410, 412, 414, 422, 425, 427,  
873, 874, 881, 883, 884, 886, 887, 892, 893

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AIRCRAFT MAINTENANCE MANUAL**



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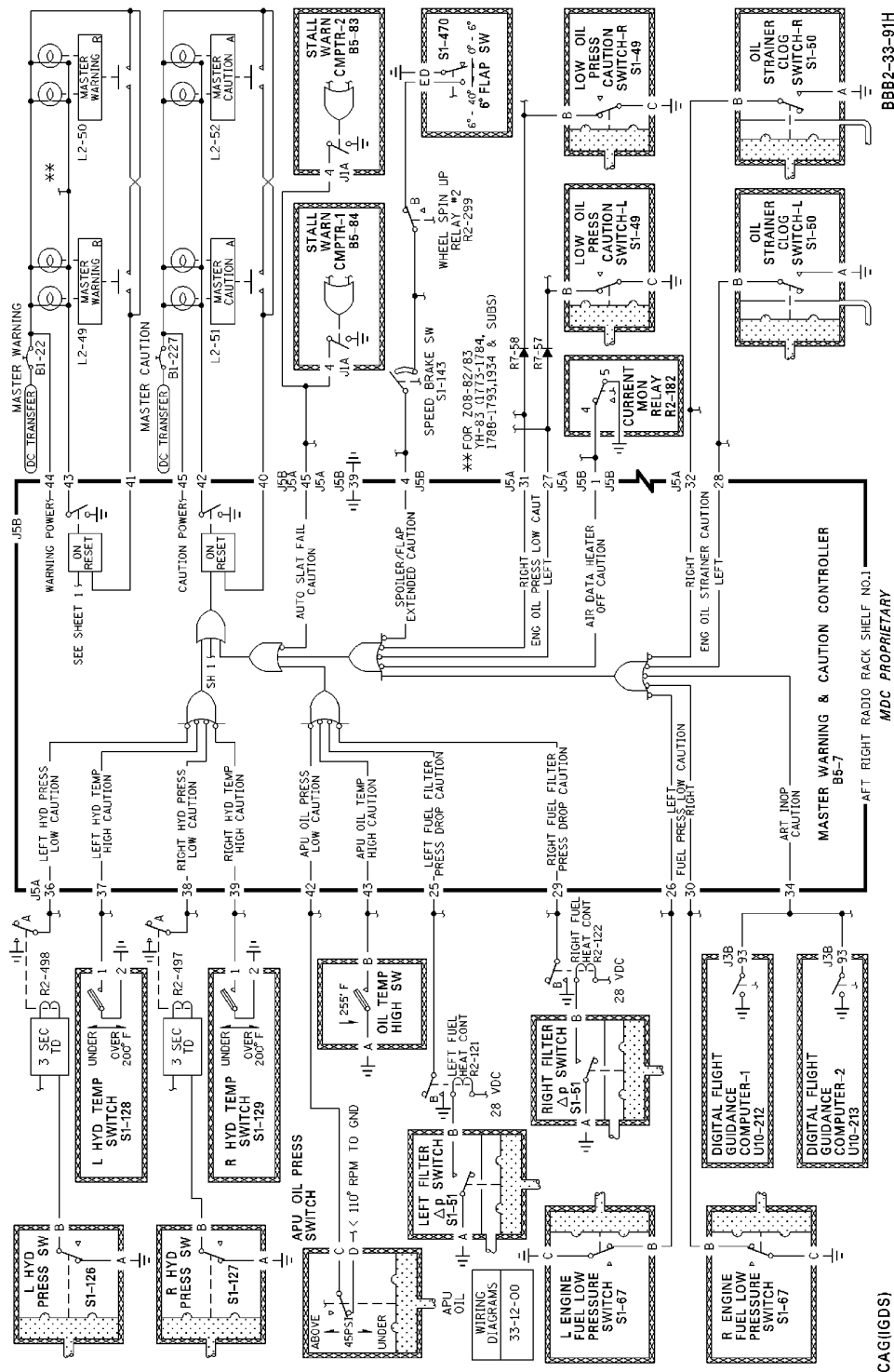
CAG(IGDS)

**Master Warning and Caution -- System Schematic**  
Figure 1/33-12-00-990-801 (Sheet 2 of 6)

EFFECTIVITY  
WJE 415-427, 429, 861-866, 868, 869, 871, 872, 891

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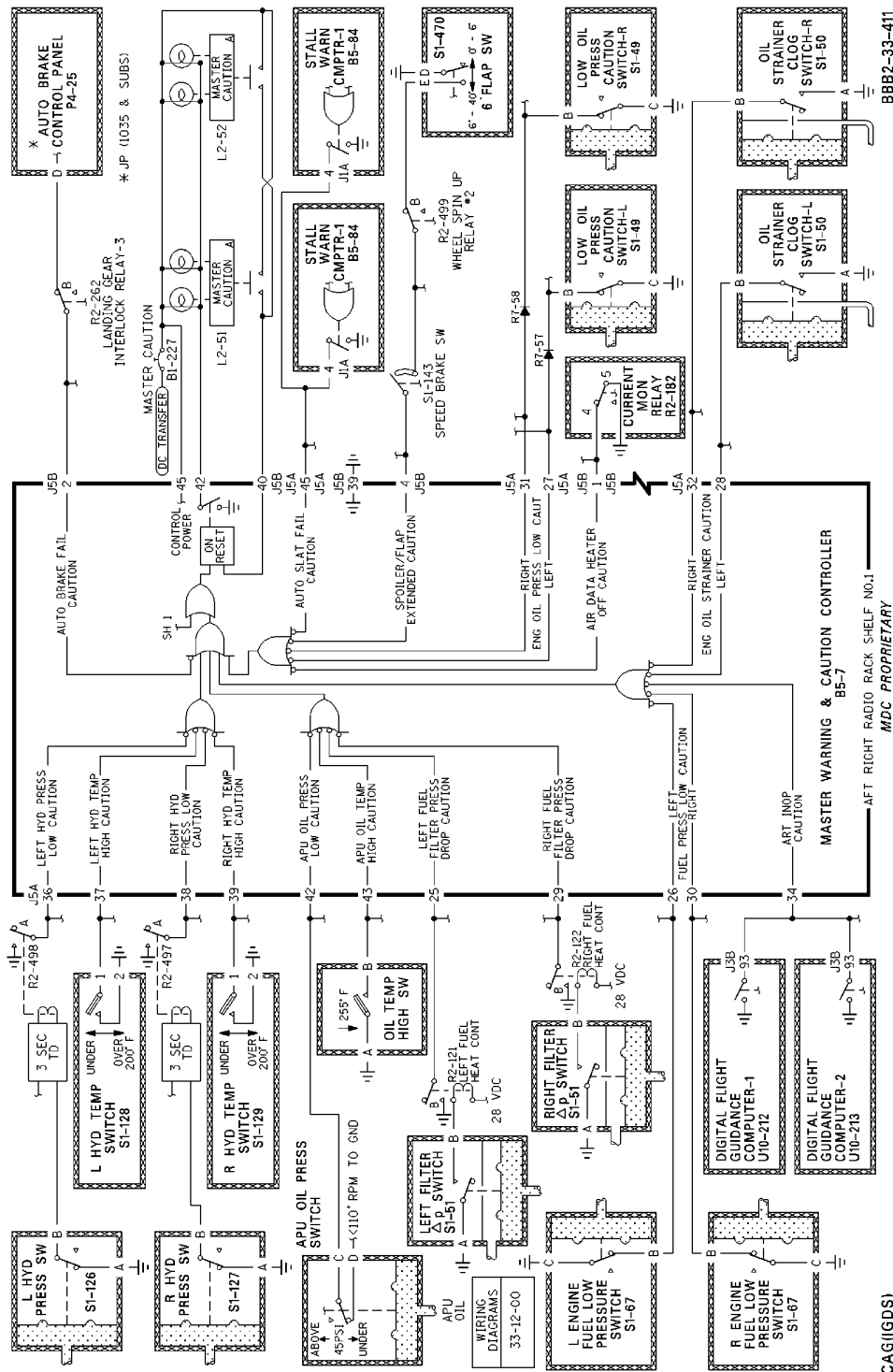


Master Warning and Caution -- System Schematic  
Figure 1/33-12-00-990-801 (Sheet 3 of 6)

EFFECTIVITY  
WJE 406, 409, 410, 873, 874, 881, 883, 884, 886, 887, 892, 893

33-12-00

# MD-80 AIRCRAFT MAINTENANCE MANUAL



Master Warning and Caution -- System Schematic  
Figure 1/33-12-00-990-801 (Sheet 4 of 6)

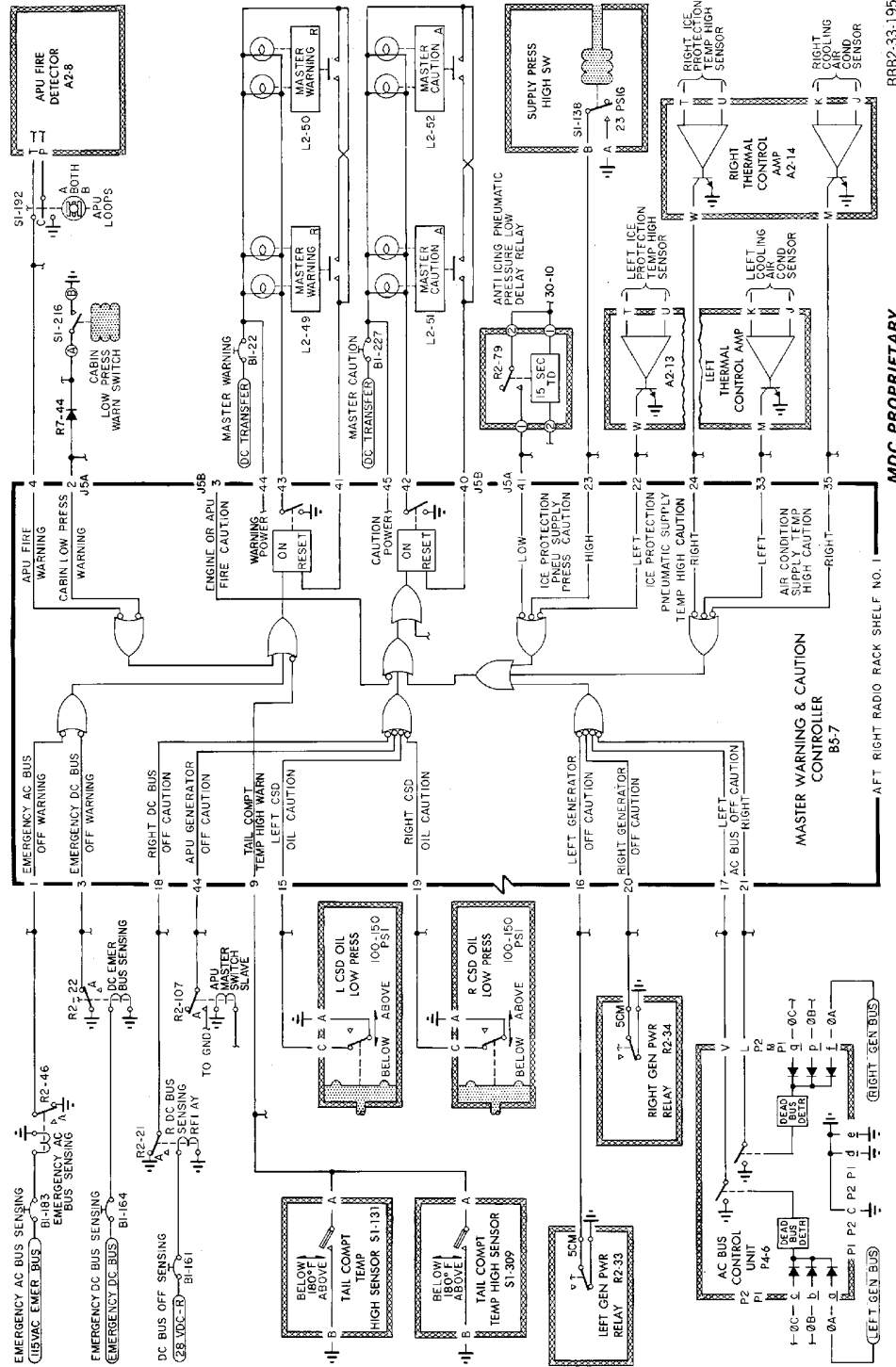
EFFECTIVITY  
WJE 407, 408, 411, 880

33-12-00

TP-80MM-WJE

Page 7  
Feb 01/2016

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AFT RIGHT RADIO RACK SHELF NO. 1

Master Warning and Caution -- System Schematic  
Figure 1/33-12-00-990-801 (Sheet 5 of 6)

EFFECTIVITY  
WJE 405-411, 880, 881, 883, 884

33-12-00

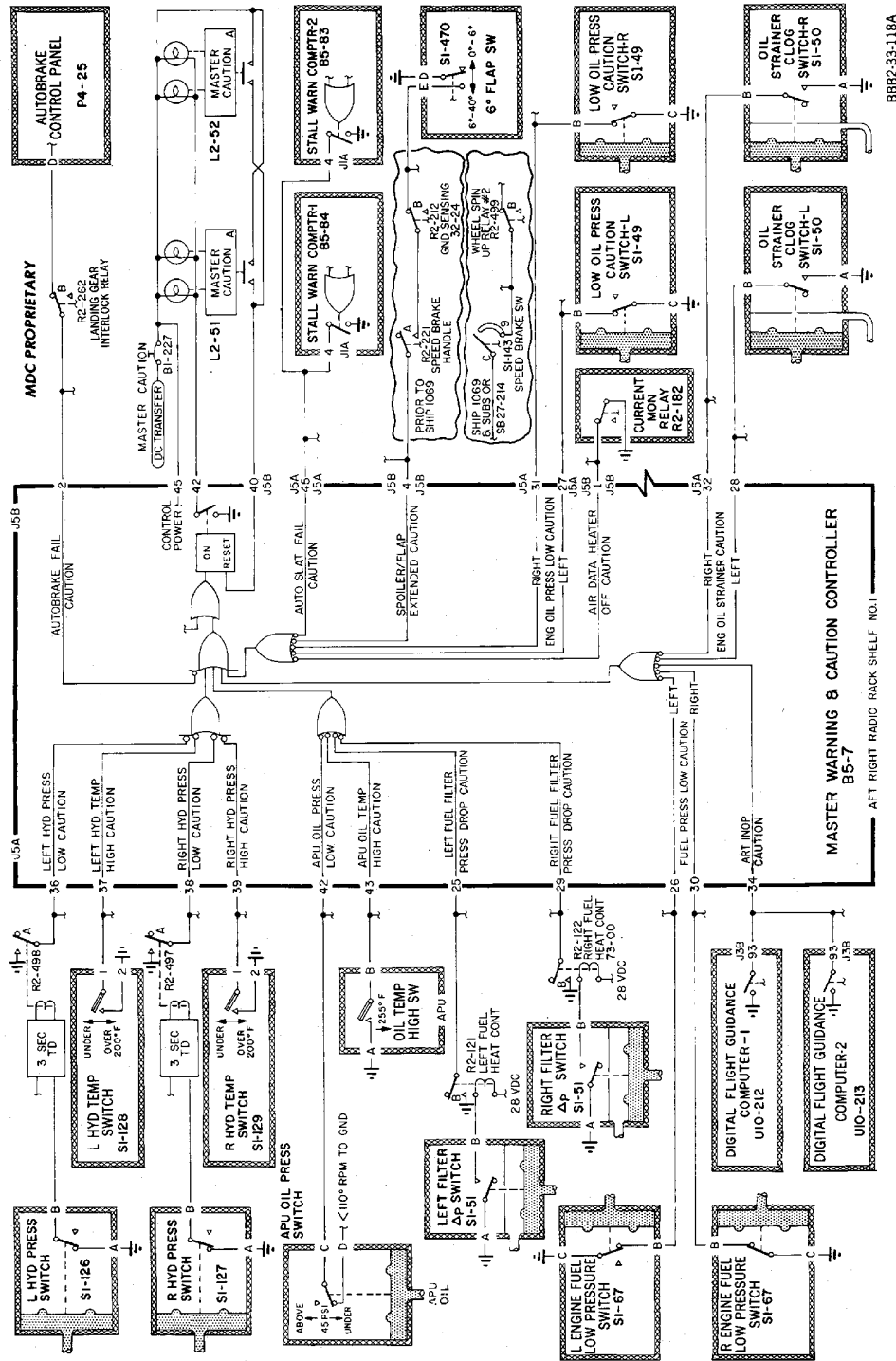
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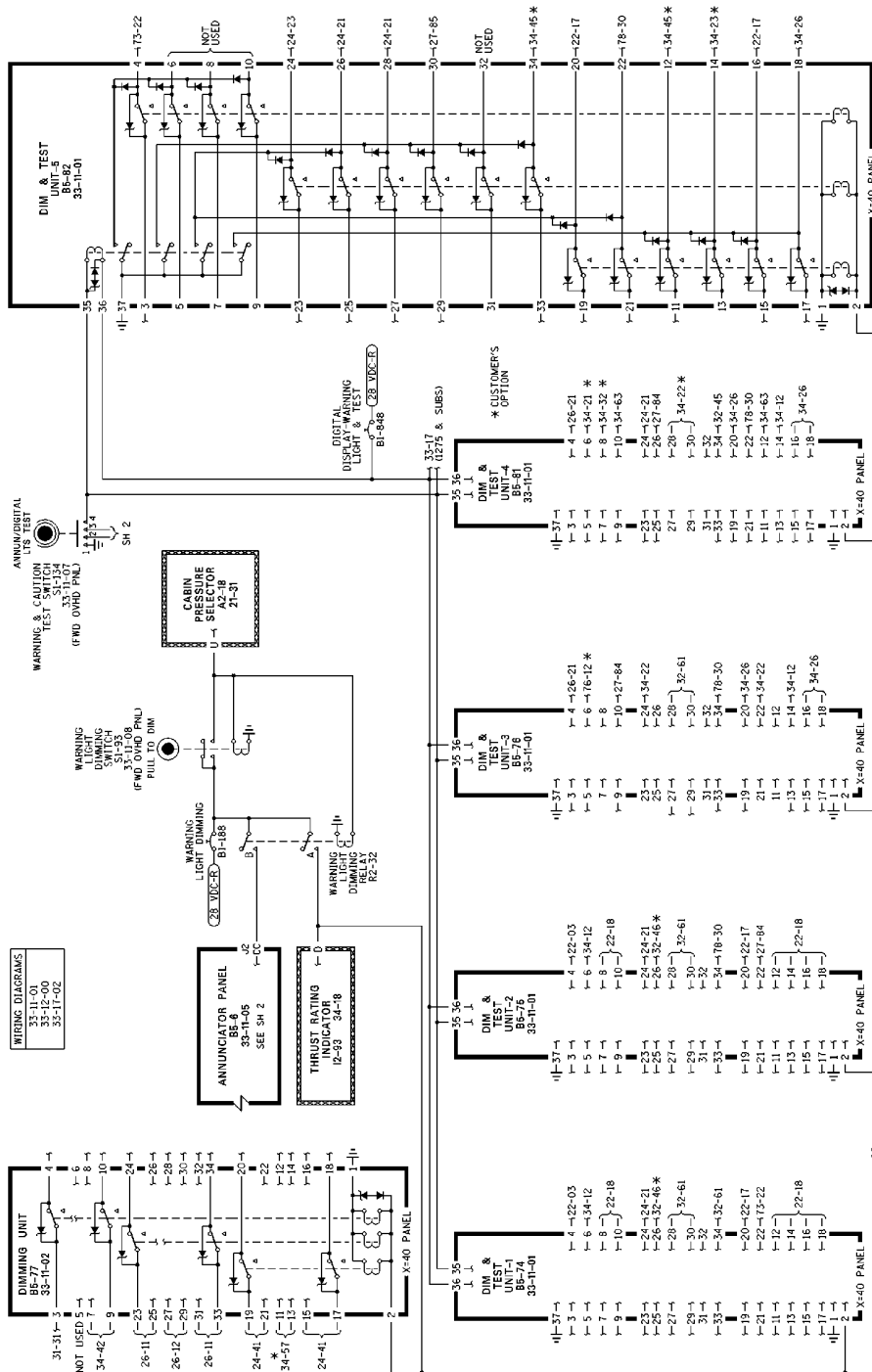
Master Warning and Caution -- System Schematic  
Figure 1/33-12-00-990-801 (Sheet 6 of 6)

EFFECTIVITY  
WJE 401-404, 412, 414, 415, 417-419, 421, 423,  
863-866, 869, 871, 872

33-12-00



# MD-80 AIRCRAFT MAINTENANCE MANUAL



Annunciator Panel Dim and Test -- Schematic  
Figure 2/33-12-00-990-802 (Sheet 1 of 10)

EFFECTIVITY  
WJE 405-411, 880, 881, 883, 884

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Page 10  
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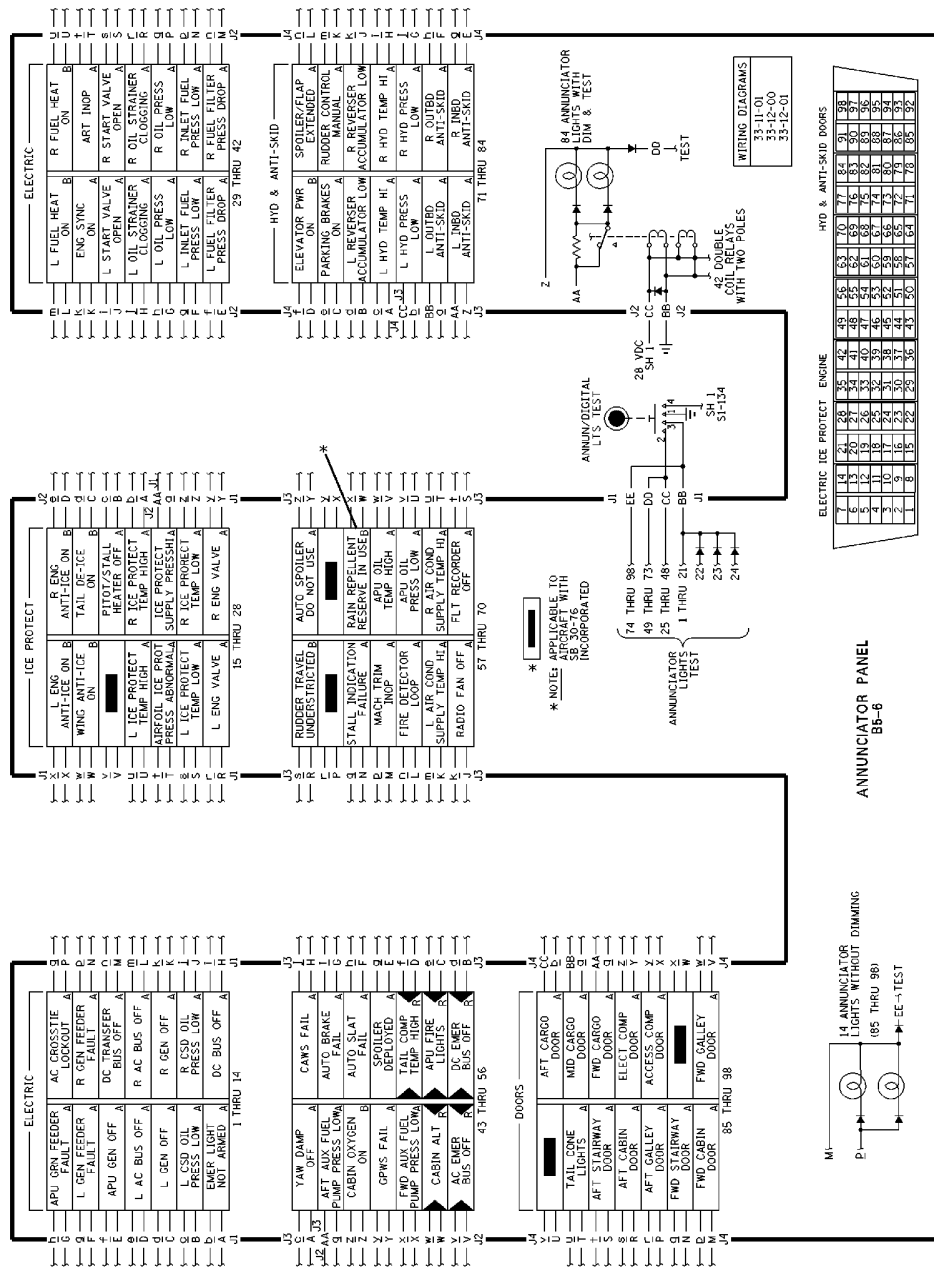
CAG(I/GDS)





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OVERHEAD PANEL MDC PROPRIETARY

CAG(IGDS)

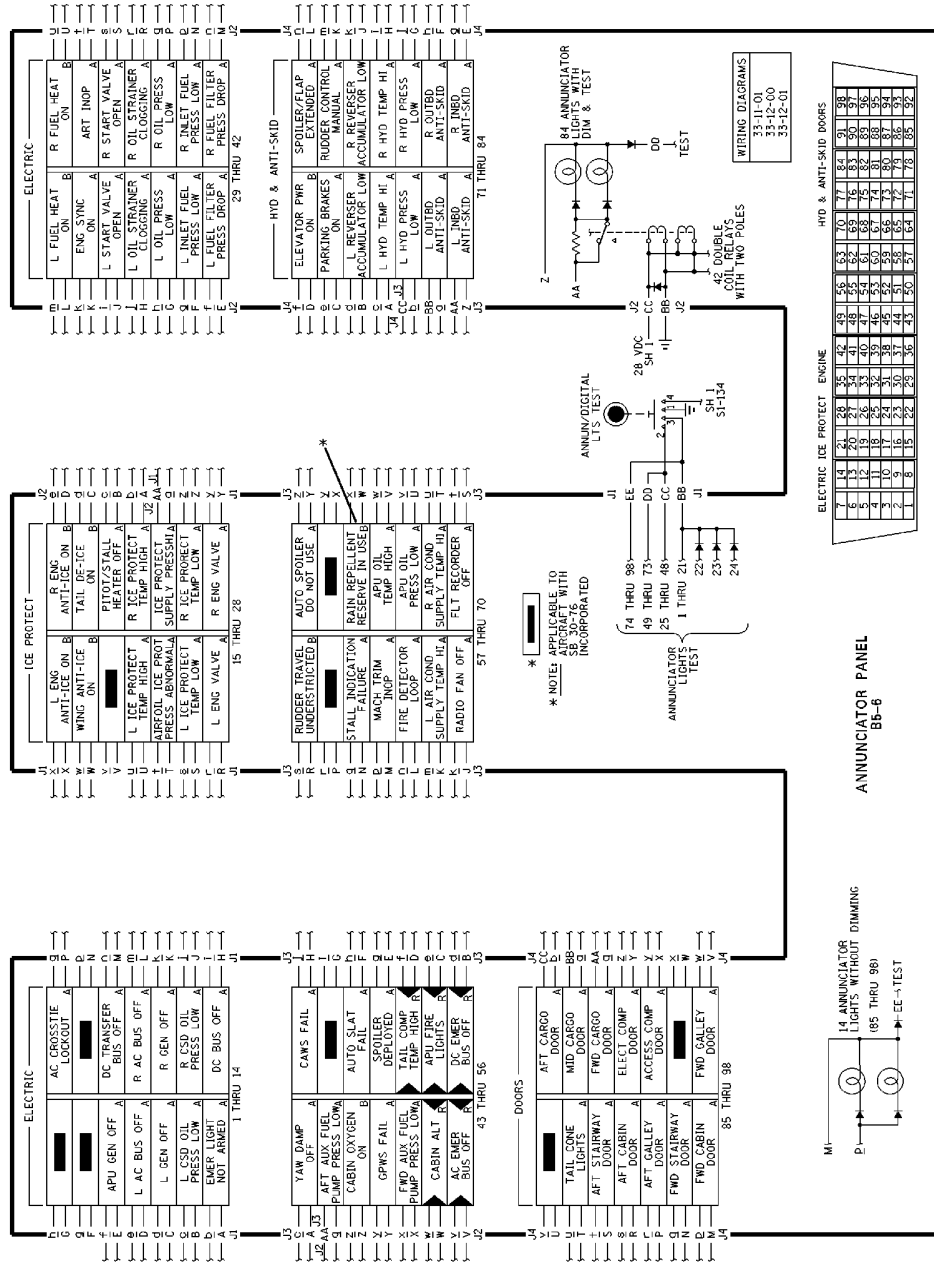
Annunciator Panel Dim and Test -- Schematic  
Figure 2/33-12-00-990-802 (Sheet 3 of 10)

EFFECTIVITY  
WJE 893

TP-80MM-WJE

# MD-80 AIRCRAFT MAINTENANCE MANUAL

BBB2-33-325C



CAG(IGDS)

Annunciator Panel Dim and Test -- Schematic Figure 2/33-12-00-990-802 (Sheet 4 of 10)

OVERHEAD PANEL MDC PROPRIETARY

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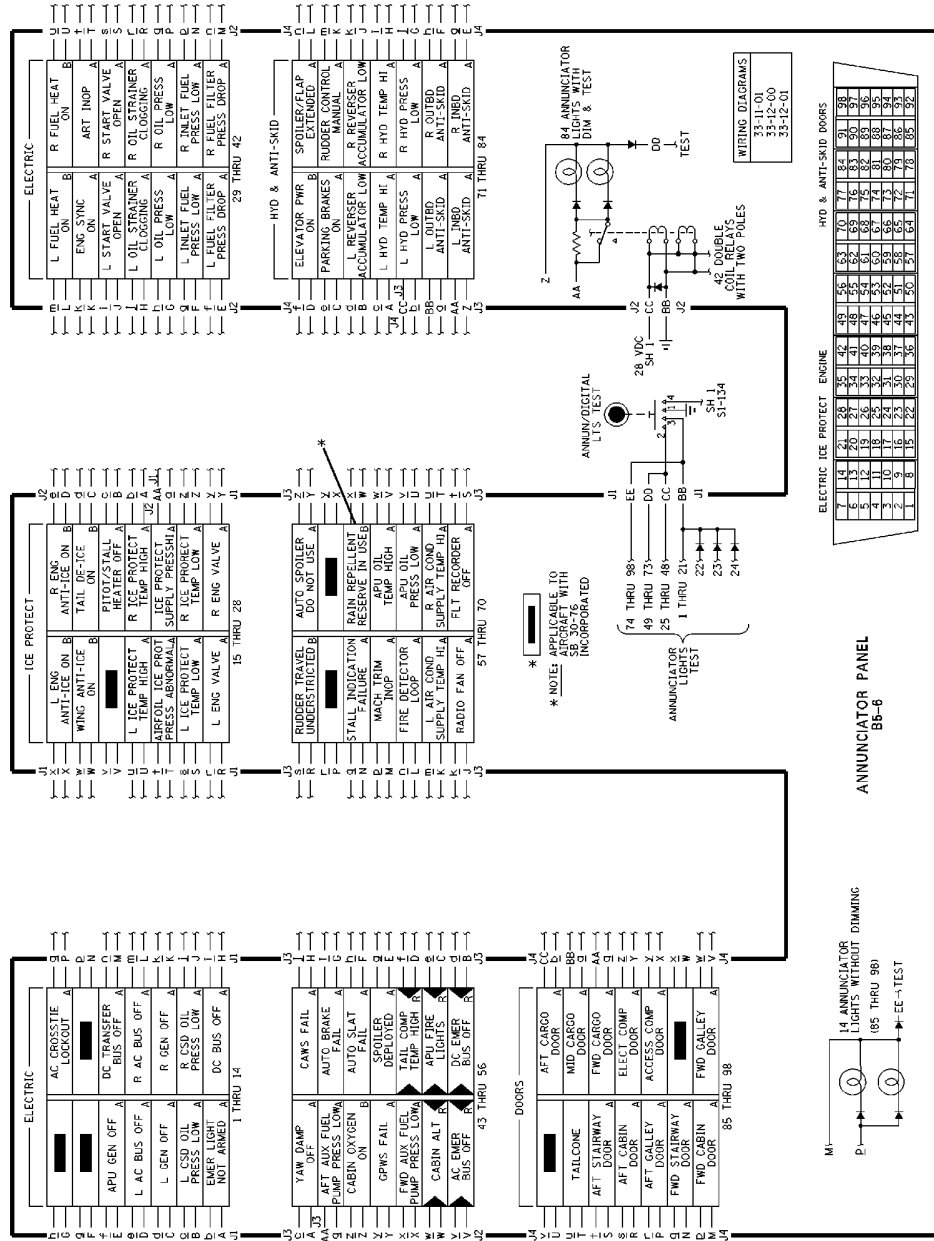
EFFECTIVITY WJE 409, 410, 881, 883, 884

Page 13 Feb 01/2016

TP-80MM-WJE

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OVERHEAD PANEL  
MDC PROPRIETARY

CAG(I/GDS)

Annunciator Panel Dim and Test -- Schematic  
Figure 2/33-12-00-990-802 (Sheet 5 of 10)

EFFECTIVITY  
WJE 405, 407, 408, 411, 880

TP-80MM-WJE

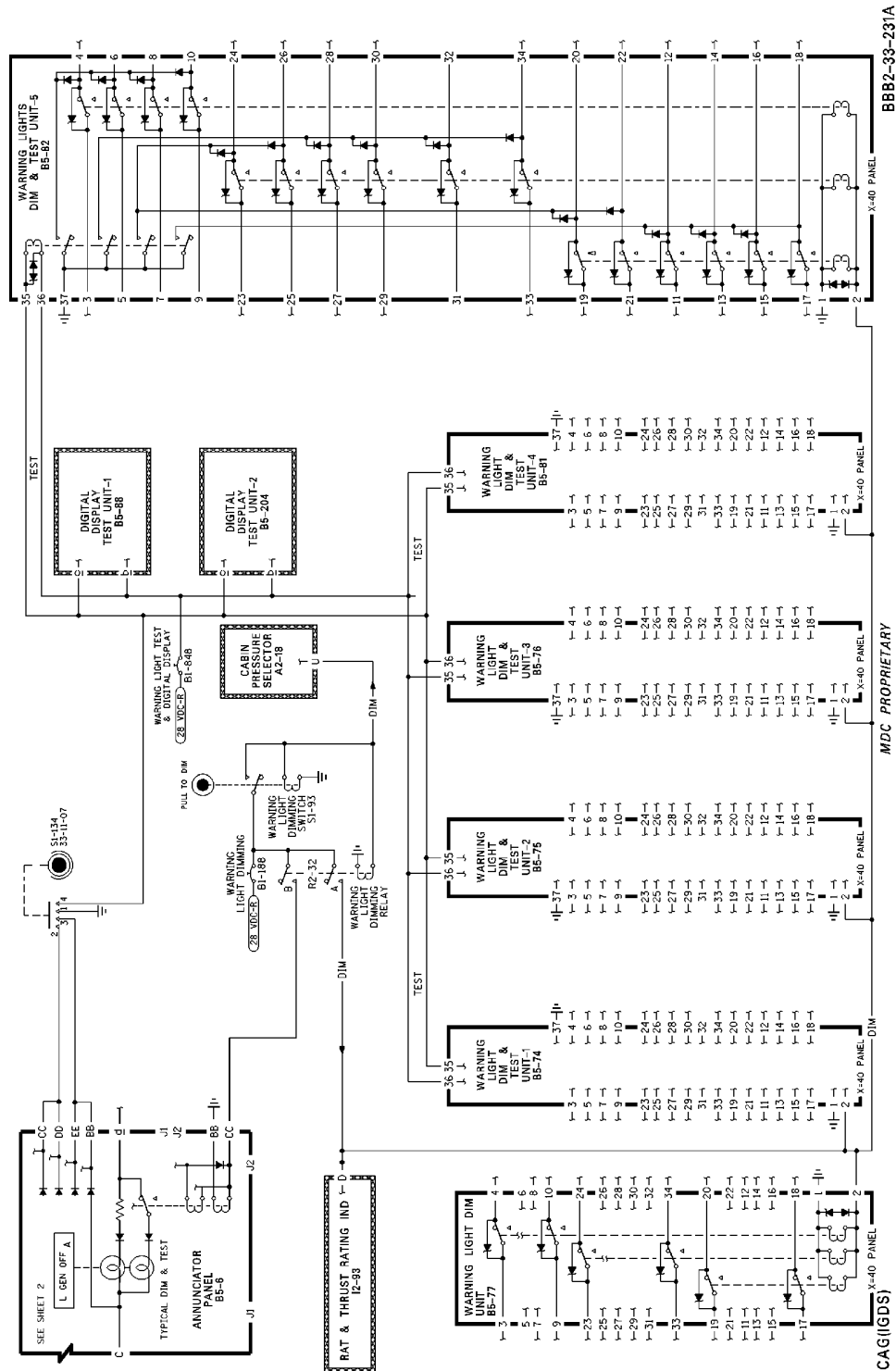
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Page 14  
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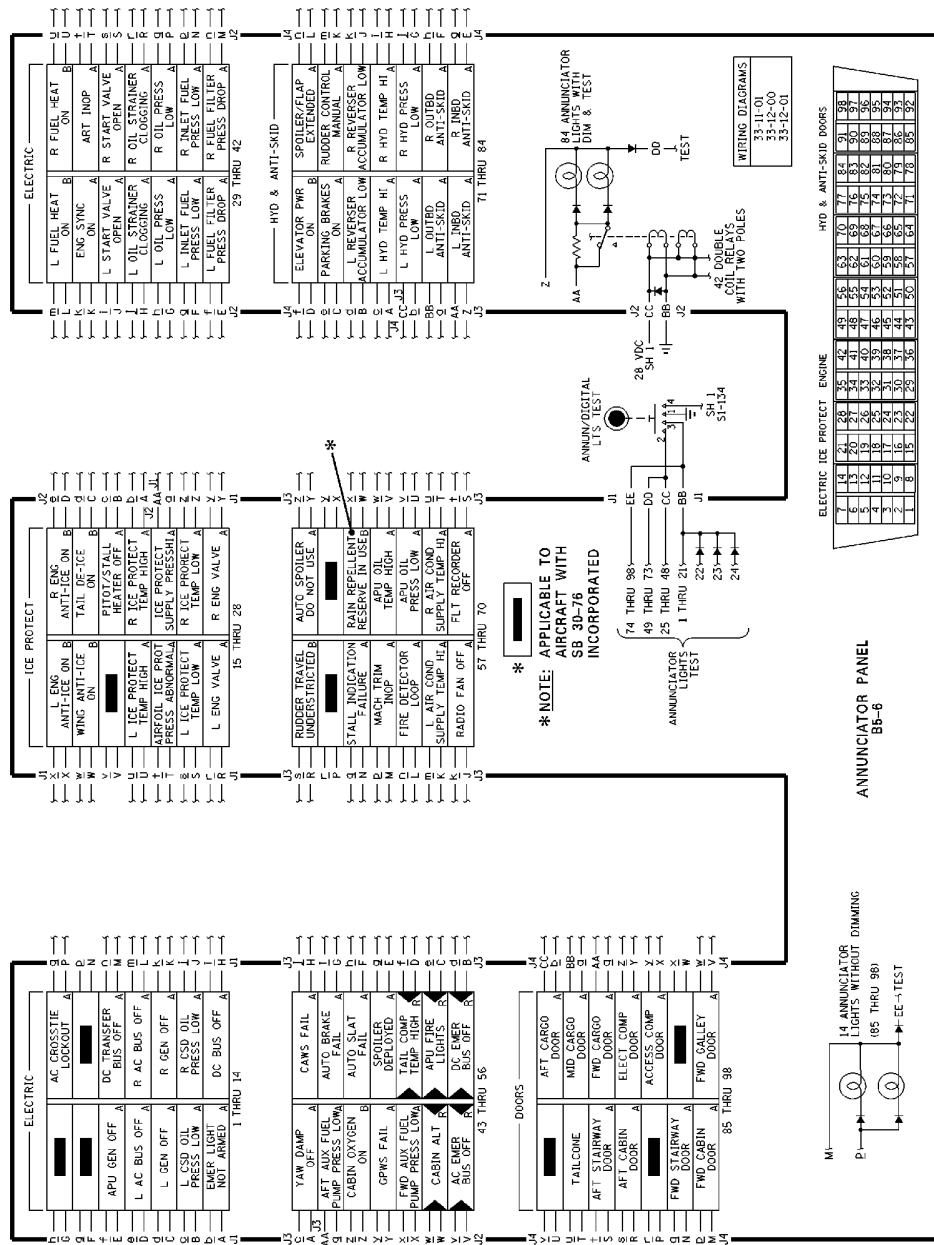
Annunciator Panel Dim and Test -- Schematic  
Figure 2/33-12-00-990-802 (Sheet 6 of 10)

EFFECTIVITY  
WJE 422, 425, 427, 868

33-12-00

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CAG(I/GDS)

OVERHEAD PANEL  
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Annunciator Panel Dim and Test -- Schematic  
Figure 2/33-12-00-990-802 (Sheet 7 of 10)

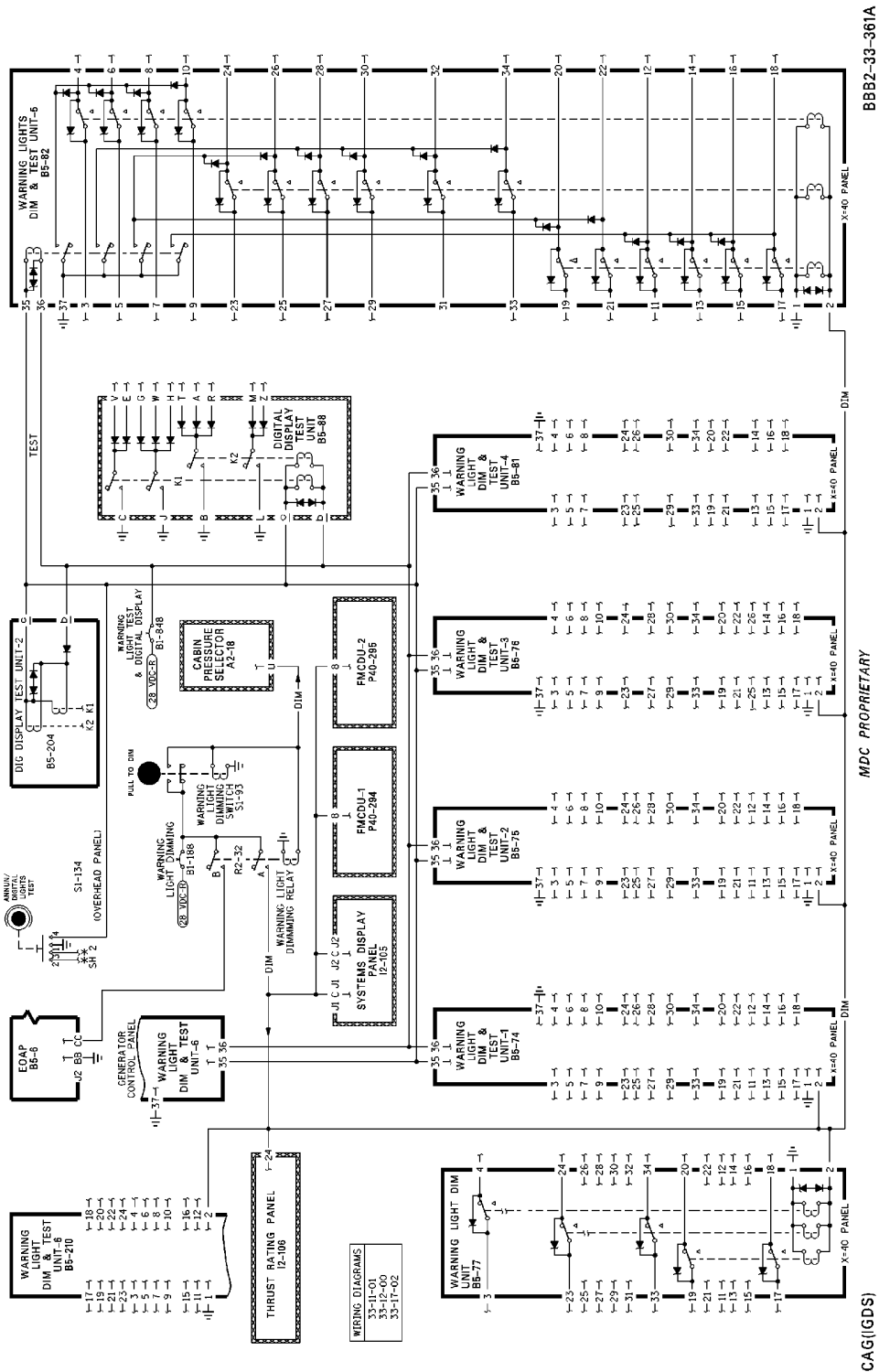
EFFECTIVITY  
WJE ALL

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33-12-00

Page 16  
Feb 01/2015

# MD-80 AIRCRAFT MAINTENANCE MANUAL



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CAG(IGDS)

Annunciator Panel Dim and Test -- Schematic  
Figure 2/33-12-00-990-802 (Sheet 8 of 10)

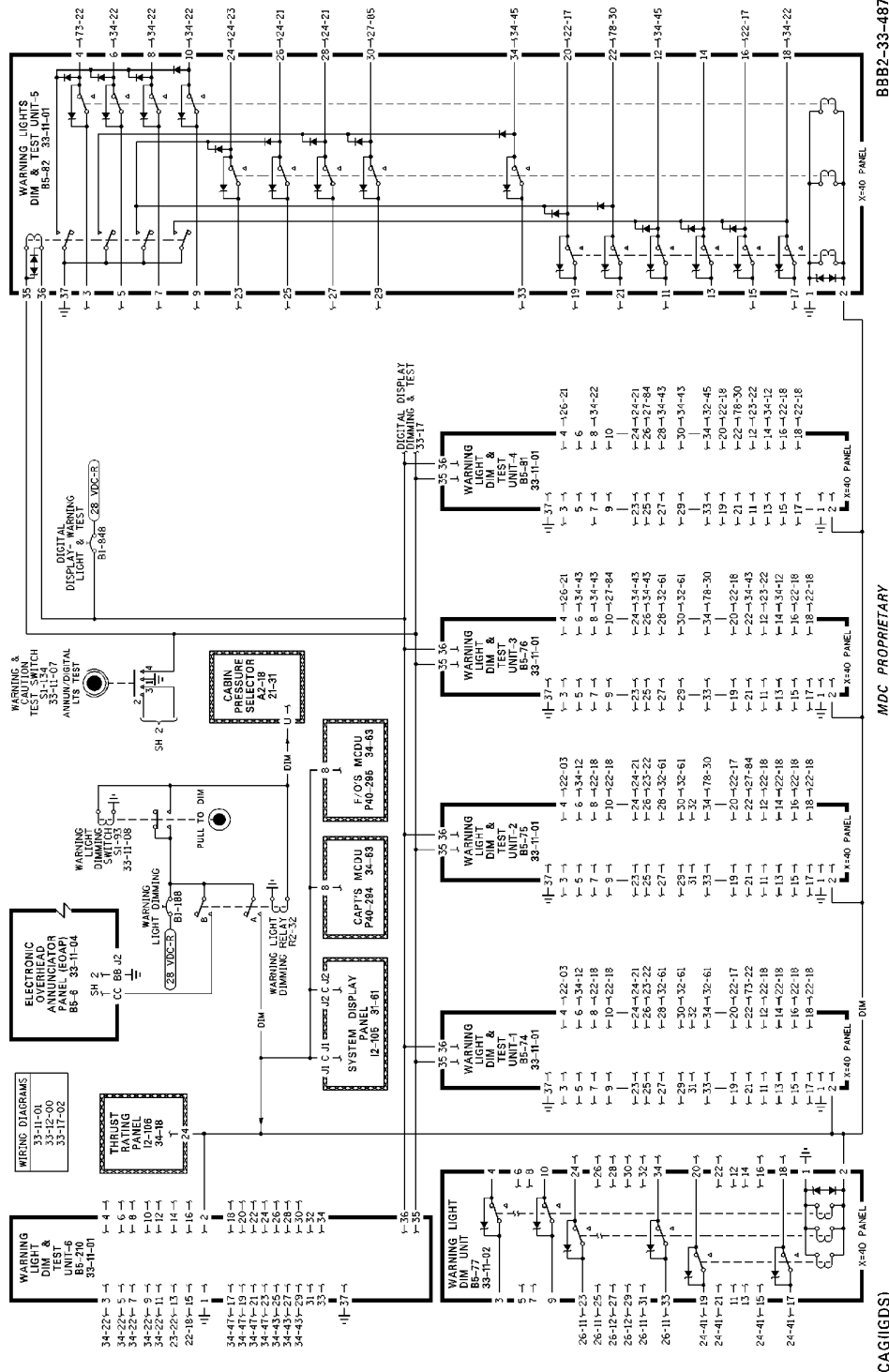
EFFECTIVITY  
WJE 401-404, 412, 414

33-12-00

Page 17  
Feb 01/2015

TP-80MM-WJE

# MD-80 AIRCRAFT MAINTENANCE MANUAL



**Annunciator Panel Dim and Test -- Schematic**  
Figure 2/33-12-00-990-802 (Sheet 9 of 10)

EFFECTIVITY  
WJE 401-404, 412, 414

TP-80MM-WJE

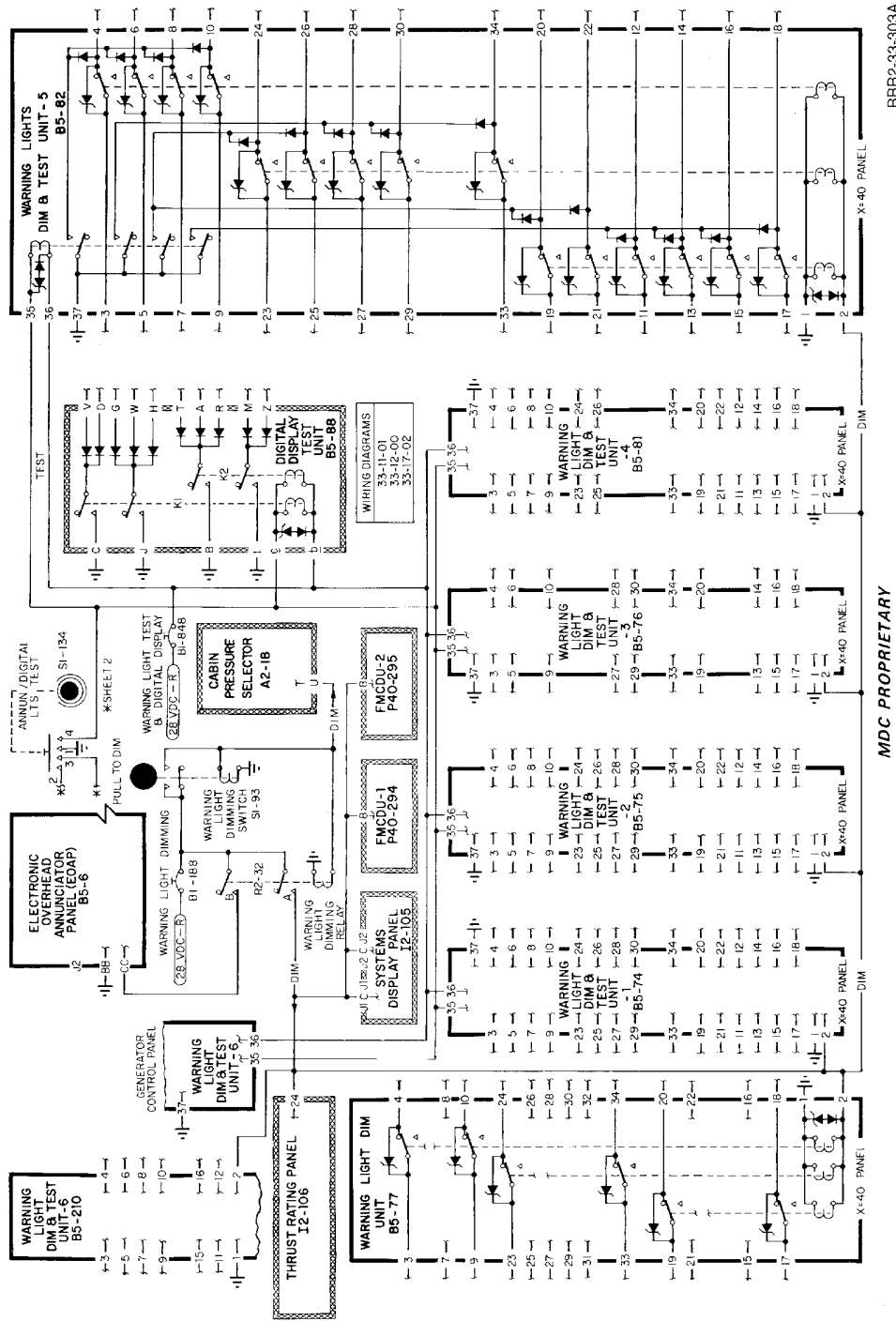
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Annunciator Panel Dim and Test -- Schematic  
Figure 2/33-12-00-990-802 (Sheet 10 of 10)

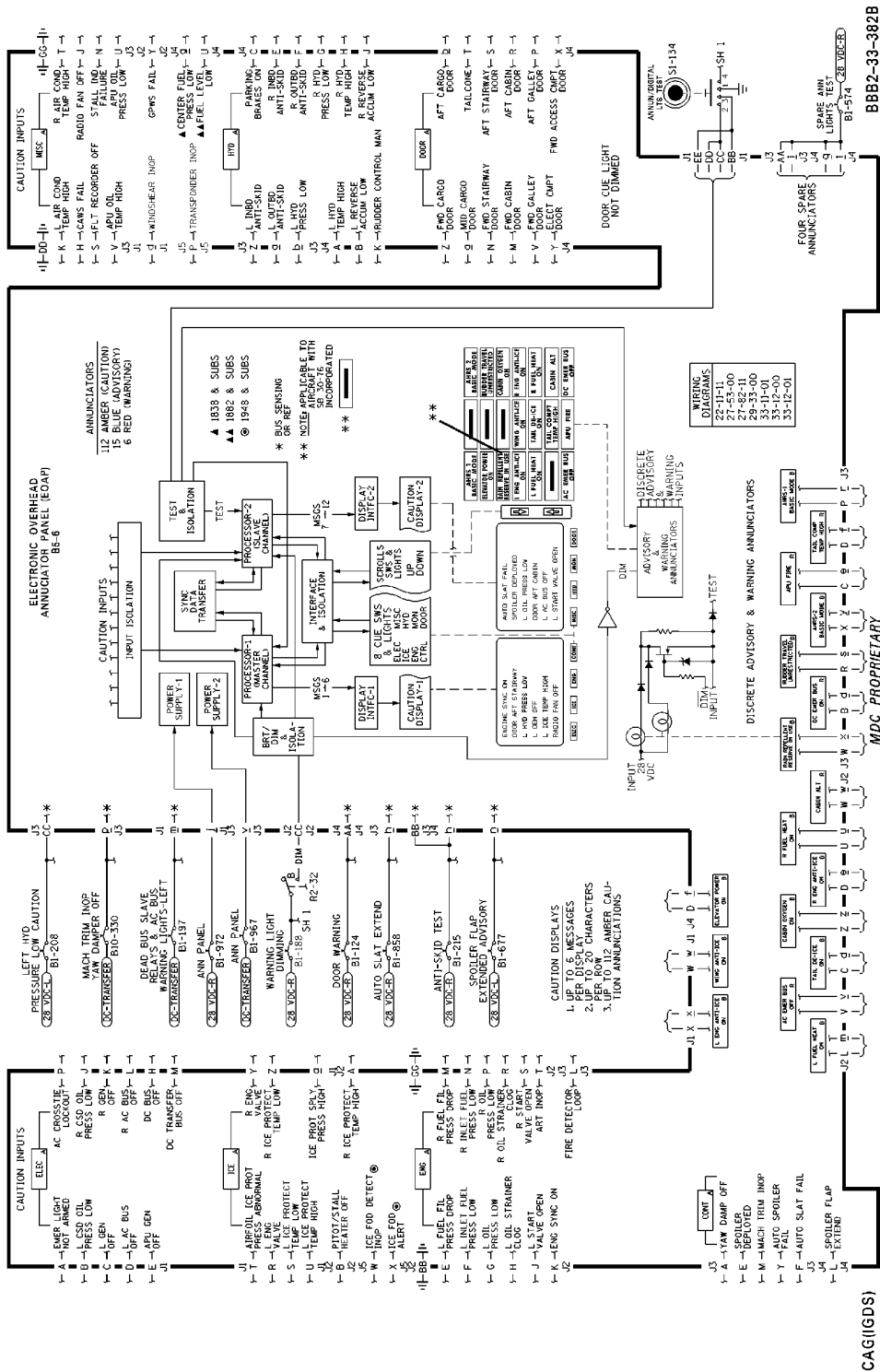
EFFECTIVITY  
WJE 415, 417-419, 421, 423, 863-866, 869, 871, 872

33-12-00

TP-80MM-WJE

Page 19  
Feb 01/2015

# MD-80 AIRCRAFT MAINTENANCE MANUAL



**Electronic Overhead Annunciator Panel -- Schematic**  
**Figure 3/33-12-00-990-815 (Sheet 1 of 7)**

EFFECTIVITY  
WJE 886, 887

TP-80MM-WJE

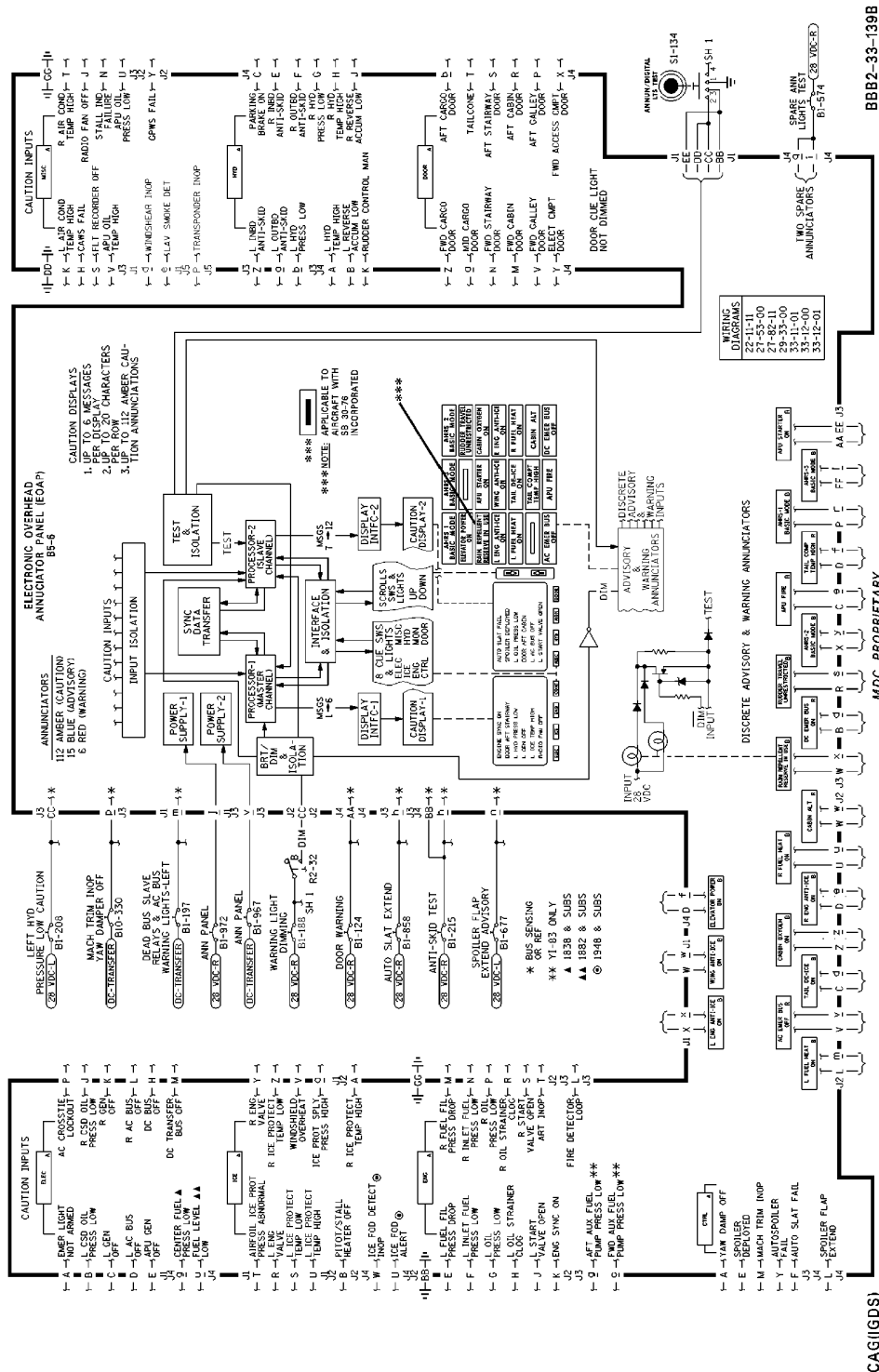
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**33-12-00**

Page 20  
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Electronic Overhead Annunciator Panel -- Schematic  
Figure 3/33-12-00-990-815 (Sheet 2 of 7)

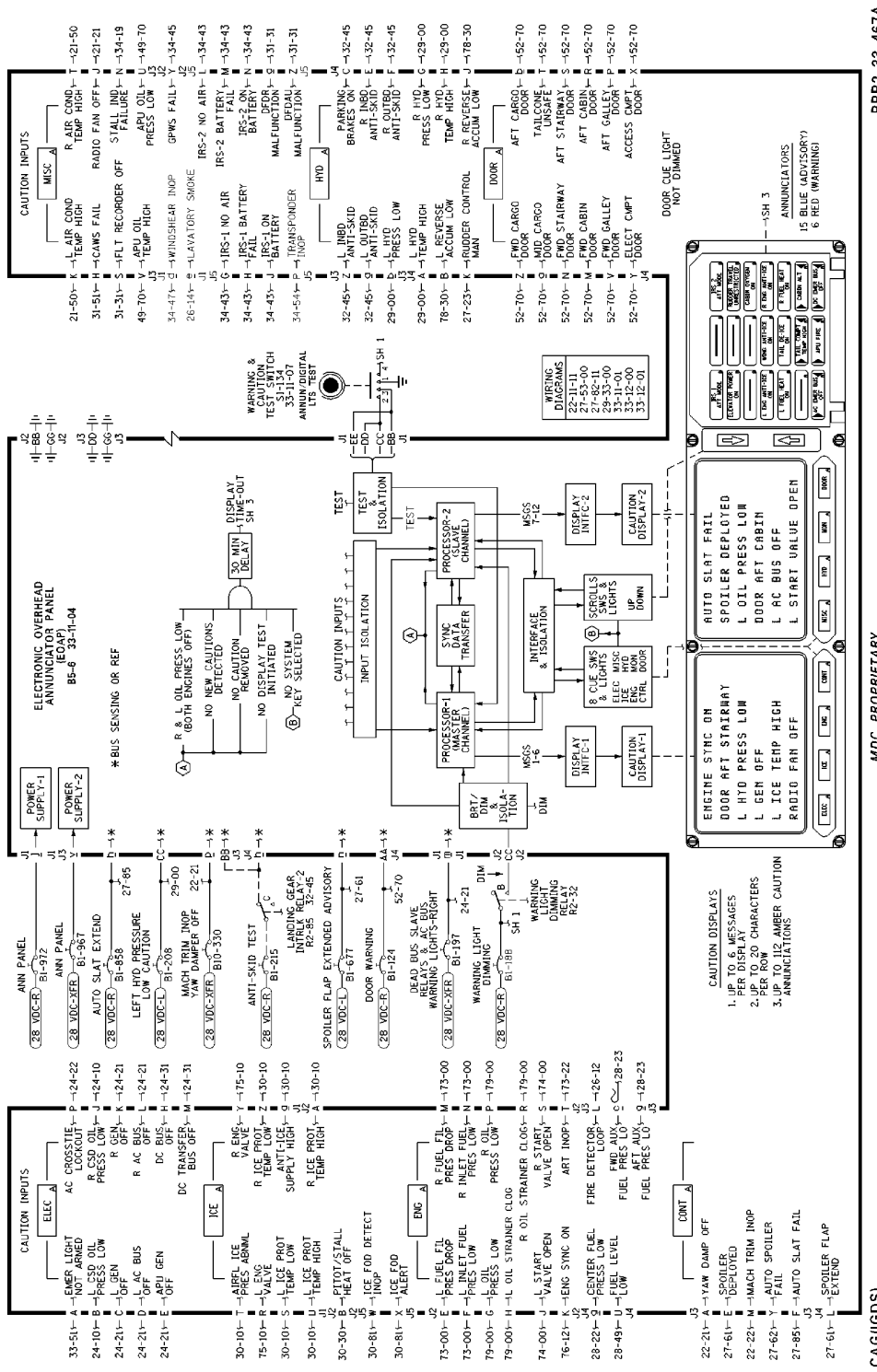
EFFECTIVITY  
WJE 406

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Page 21  
Feb 01/2016

TP-80MM-WJE

# MD-80 AIRCRAFT MAINTENANCE MANUAL



Electronic Overhead Annunciator Panel -- Schematic  
Figure 3/33-12-00-990-815 (Sheet 3 of 7)

EFFECTIVITY  
WJE 401-404, 412, 414

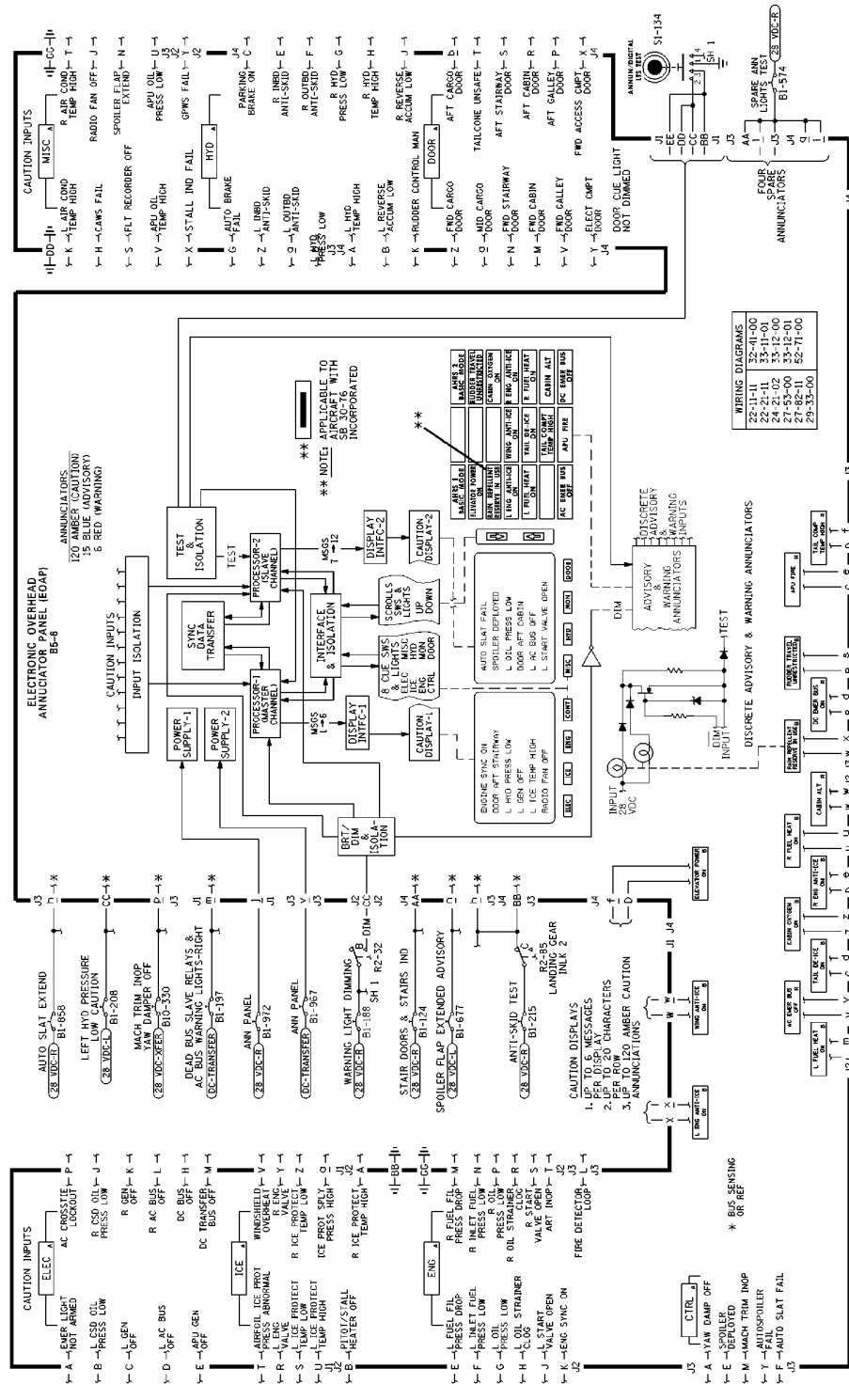
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33-12-00

Page 22  
Feb 01/2016

# MD-80 AIRCRAFT MAINTENANCE MANUAL

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CAC(IGDS)

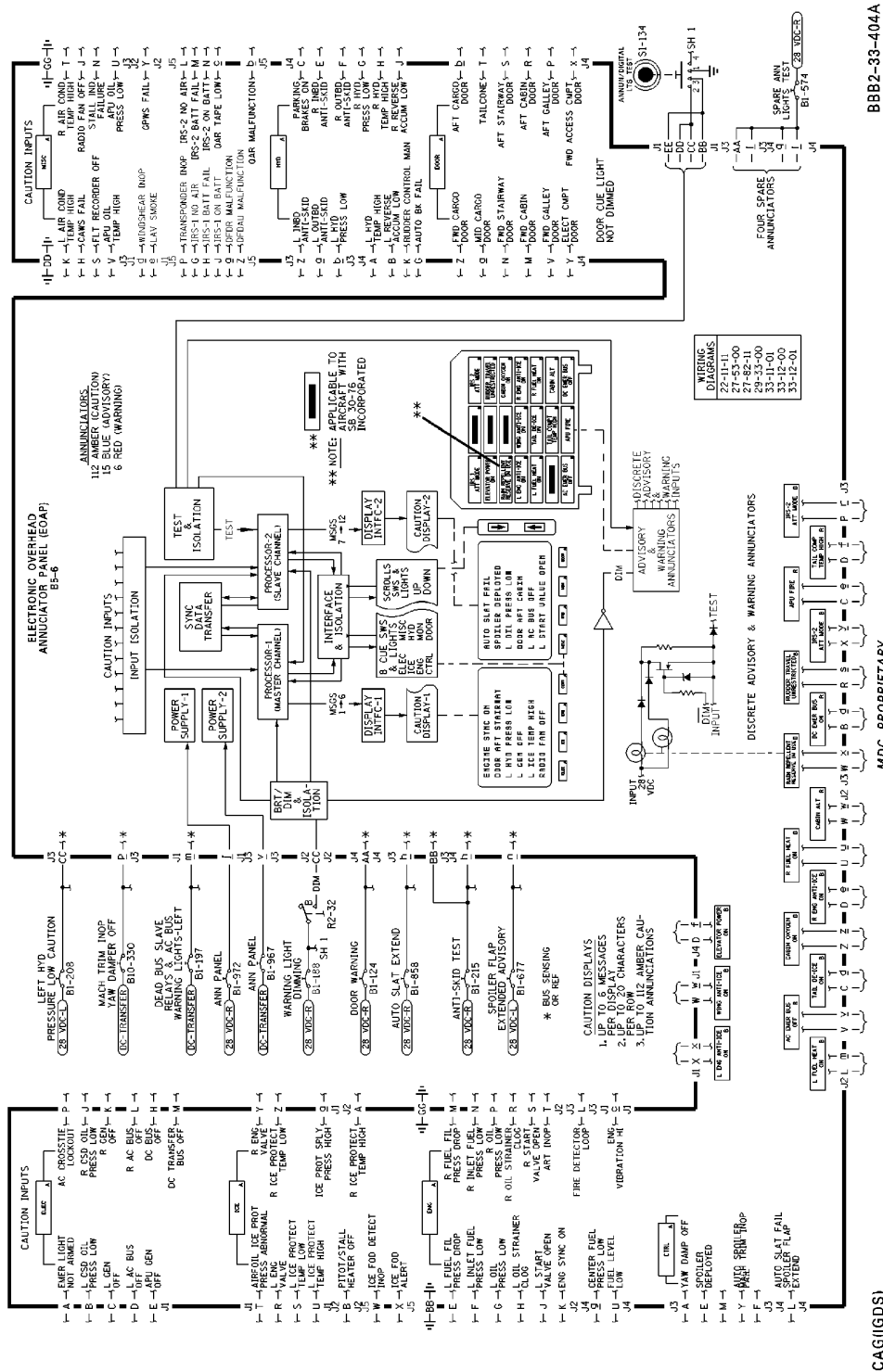
Electronic Overhead Annunciator Panel -- Schematic  
Figure 3/33-12-00-990-815 (Sheet 4 of 7)

EFFECTIVITY  
WJE 415, 417-419, 421, 423, 863-866, 869, 871, 872

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# MD-80 AIRCRAFT MAINTENANCE MANUAL



Electronic Overhead Annunciator Panel -- Schematic  
Figure 3/33-12-00-990-815 (Sheet 5 of 7)

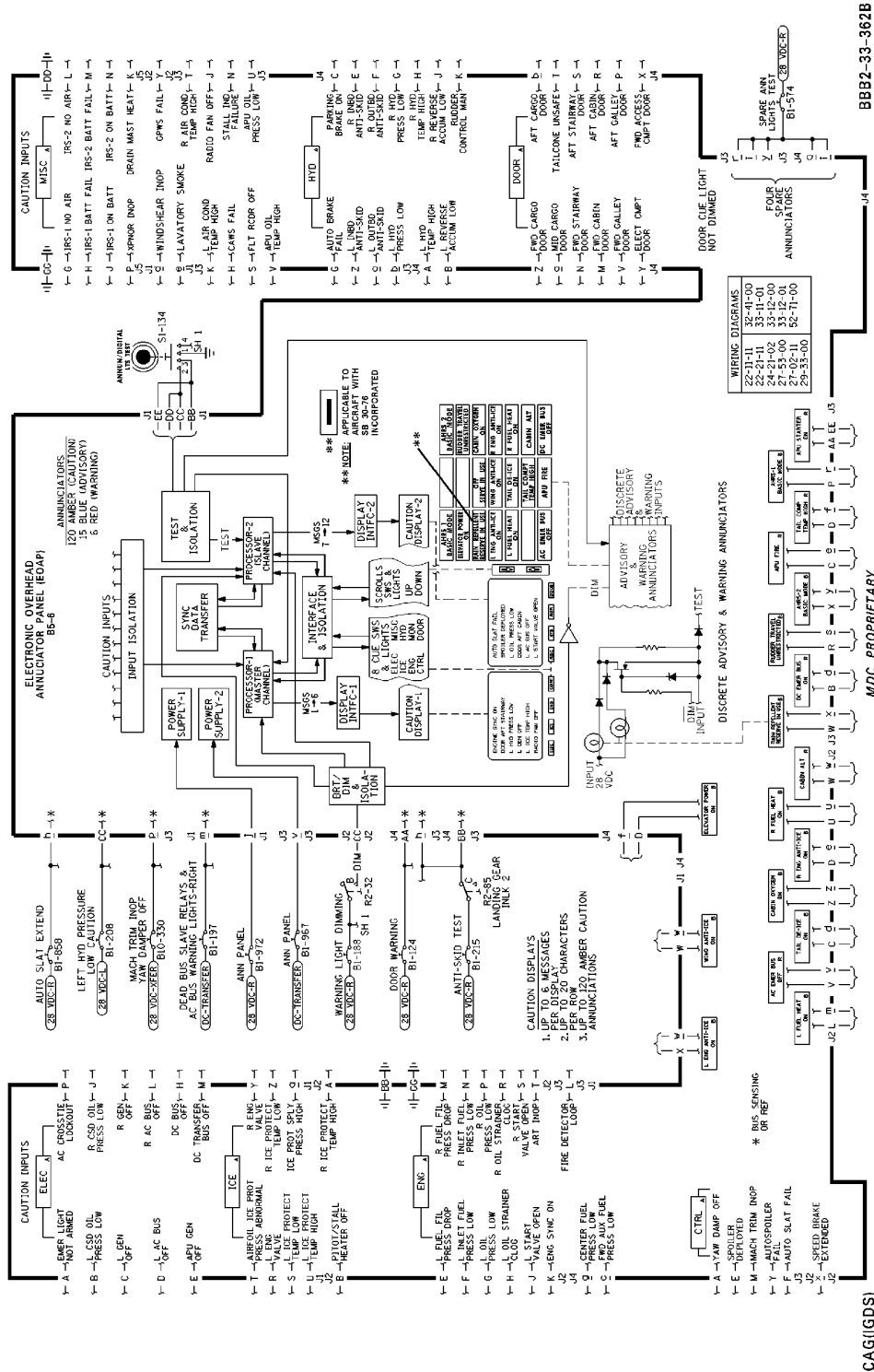
EFFECTIVITY  
WJE ALL

## 33-12-00

Page 24  
Feb 01/2016

TP-80MM-WJE

# MD-80 AIRCRAFT MAINTENANCE MANUAL



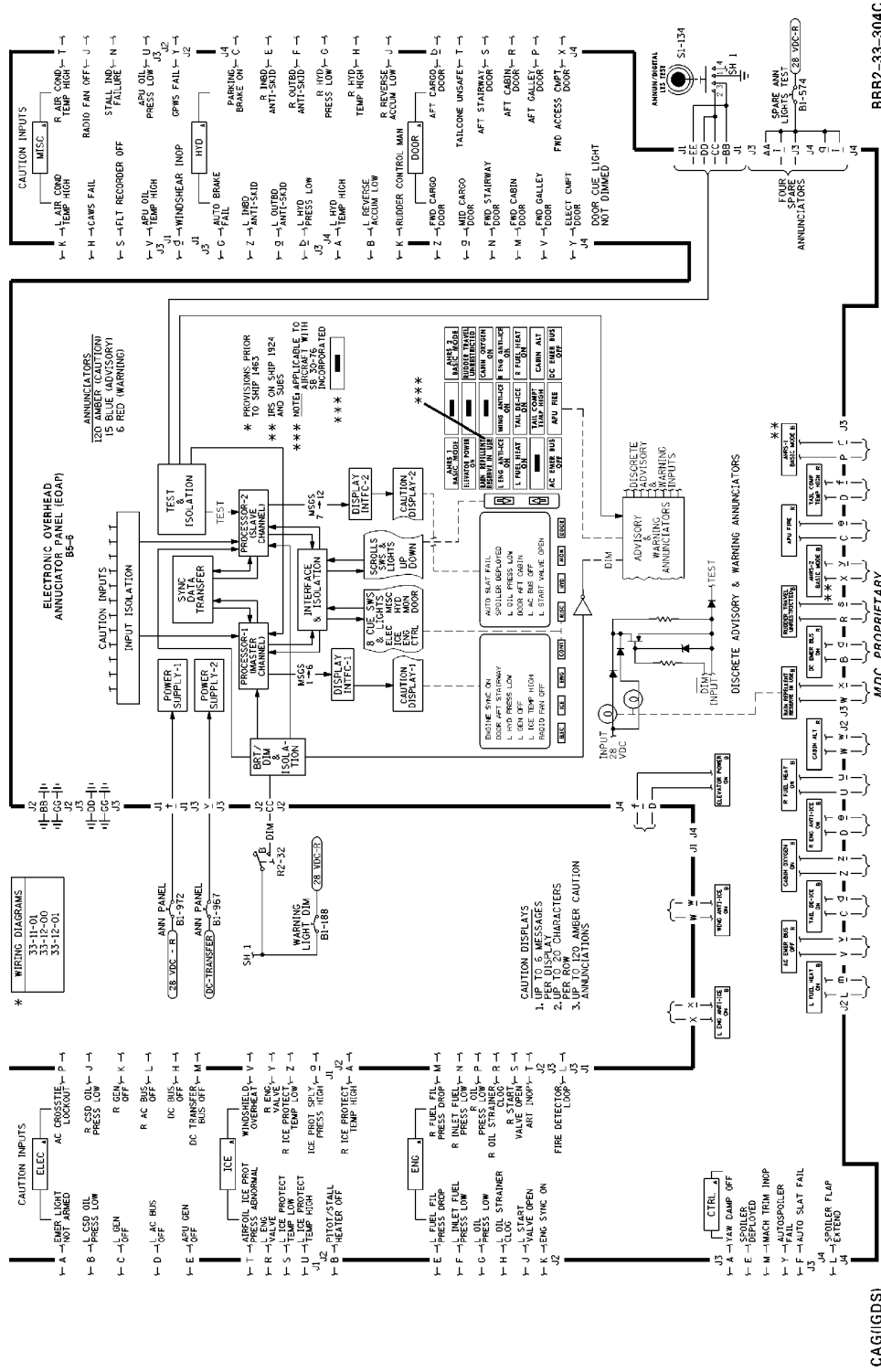
Electronic Overhead Annunciator Panel -- Schematic  
Figure 3/33-12-00-990-815 (Sheet 6 of 7)

EFFECTIVITY  
WJE ALL

33-12-00



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Electronic Overhead Annunciator Panel -- Schematic  
Figure 3/33-12-00-990-815 (Sheet 7 of 7)

EFFECTIVITY  
WJE ALL

33-12-00

Page 26  
Feb 01/2016

TP-80MM-WJE



# MD-80 AIRCRAFT MAINTENANCE MANUAL

## MASTER WARNING AND CAUTION SYSTEM - MAINTENANCE PRACTICES

### 1. General

A. This maintenance practice provides test procedures to verify correct operation of the Master Warning and Caution System (MWACS). The check is presented in sequence and identified by component functions.

### 2. Test Master Warning and Caution System

A. The following is a functional test of the annunciator panel, master warning, and master caution lights.

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

#### **LOWER EPC, DC TRANSFER BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 875, 876</b>			
U	35	B1-967	ANN PANEL
<b>WJE 405, 407-409, 411, 416, 420, 422, 424-427, 429, 861, 862, 868, 873-876, 880, 881, 883, 884, 891-893</b>			
Z	41	B1-22	MASTER WARNING
Z	42	B1-227	MASTER CAUTION

#### **LOWER EPC, ENGINE - RIGHT DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 875, 876</b>			
T	24	B1-972	ANN PANEL

#### **LOWER EPC, LIGHTS - R DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 405, 407-409, 411, 416, 420, 422, 424-427, 429, 861, 862, 868, 873-876, 880, 881, 883, 884, 891-893</b>			
N	34	B1-848	DIGITAL DISPLAY WARNING LIGHT & TEST
N	35	B1-574	SPARE ANN LIGHTS TEST

#### **LOWER EPC, MISCELLANEOUS RIGHT DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
R	25	B1-188	WARNING LIGHT DIMMING

NOTE: Any flags and failure messages during the test may be disregarded provided the indicator is otherwise operating normally.

- (2) Press ANNUN/DIGITAL LIGHTS TEST switch on forward overhead switch panel. All annunciator lights come on and master warning and master caution lights come on.
- (3) Pull DIM switch on forward overhead switch panel. Some lights on annunciator panel dim. Master warning and master caution lights remain bright.
- (4) Release ANNUN/DIGITAL LIGHTS TEST switch and press DIM switch to the BRIGHT position. Annunciator lights and master warning and master caution lights go off.
- (5) Return aircraft to required configuration.

#### EFFECTIVITY

WJE 405, 407-409, 411, 416, 420, 422, 424-427, 429, 861, 862, 868, 873-876, 880, 881, 883, 884, 891-893

TP-80MM-WJE

# 33-12-00

Config 1  
Page 201  
Feb 01/2016

# MD-80 AIRCRAFT MAINTENANCE MANUAL

## MASTER WARNING AND CAUTION SYSTEM - MAINTENANCE PRACTICES

### 1. General

- A. This maintenance practice provides adjustment/test procedures to verify correct operation of the Master Warning and Caution System (MWACS). The check is presented in sequence and identified by component functions.

### 2. Adjustment/Test Master Warning and Caution System

- A. Test Master Warning and Caution System.
- B. The following is a functional test of the EOAP, master warning and caution lights.
- (1) Make sure that these circuit breakers are closed:

#### **LOWER EPC, DC TRANSFER BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
U	35	B1-967	ANN PANEL
Z	41	B1-22	MASTER WARNING
Z	42	B1-227	MASTER CAUTION

#### **LOWER EPC, ENGINE - RIGHT DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
T	24	B1-972	ANN PANEL

#### **LOWER EPC, LIGHTS - R DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
N	34	B1-848	DIGITAL DISPLAY WARNING LIGHT & TEST
N	35	B1-574	SPARE ANN LIGHTS TEST

#### **LOWER EPC, MISCELLANEOUS RIGHT DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
R	25	B1-188	WARNING LIGHT DIMMING

#### EFFECTIVITY

WJE 401-404, 406, 410, 412, 414, 415, 417-419, 421, 423, 863-866, 869, 871, 872, 877-879, 886, 887

TP-80MM-WJE

## 33-12-00

Config 2  
Page 201  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

- (2) Press and hold ANNUN/DIGITAL LTS TEST switch on forward overhead switch panel. All annunciator lights, cue switch lights, scroll switch lights and master warning and master caution lights come on. EOAP screens display scanning lighted vertical bars beginning at left and stepping, one position at a time to right. Intermittently, a random number of LED columns will illuminate near the center area of the right screen when the scanning light bars reach the right edge of the left screen. In addition, the panel may intermittently go dark for several seconds except for a lighted bar segment on the right screen, if the test switch is released before the lighted bar has completed its entire scan of the left and right screens. These anomalies are normal and should not be considered as failures. Applying a Display Test I/P to the indicator also 'Grounds' two caution I/Ps, i.e. L OIL STRAINER CLOG and R OIL STRAINER CLOG. Consequently on application of the Display Test I/P one or both of these cautions may appear momentarily on the LED panels. On release of the Display Test I/P the ENG system cue light can enter a flashing sequence. These anomalies should not be considered as failures.

NOTE: On applicable aircraft equipped with super EOAP, all LED's on both screens will illuminate simultaneously in lieu of scanning lighted vertical bars.

NOTE: If the ANNUN/DIGITAL LTS TEST switch is depressed for longer than 1 minute, the EOAP will automatically revert to normal operation. At this time the L&R OIL STRAINER CLOG messages will be displayed on the LED screen. The ANNUN/DIGITAL LTS TEST switch will have to be released to remove these messages. The Warning/Advisory Annunciators are not processor controlled and therefore will not time out. To re-activate display test the switch must be released for at least 2 seconds and then re-selected. If the ANNUN/DIGITAL LTS TEST switch is released and reactivated within 2 seconds then a condition can occur where the left screen will enter display test and the right screen will blank and the SCROLL and CUE lights will flash. On release of the switch, the panel will resume normal operation.

NOTE: The EOAP will "Time Out" (both screens, cue switches and scroll arrows blank) when 3 of the 4 combinable messages (R&L OIL PRESS LOW, R&L GEN OFF, R&L HYD PRESS LOW, R&L CSD OIL PRESS LOW) are present for approximately 30 minutes. The EOAP will resume normal operation if any of the following events occur:

- The ANNUN/DIGITAL LTS TEST switch is activated.
- Any cue switch is activated.
- A new message is received.
- An old message is removed.

- (3) Pull DIM switch on forward overhead switch panel. All lights and display on annunciator panel dim with exception of DOORS cue switch light. Master warning and master caution lights remain bright.
- (4) Release ANNUN/DIGITAL LTS TEST switch and press DIM switch to BRIGHT position. Annunciator lights and displays and master warning and master caution lights go off.
- (5) Return aircraft to required configuration.
- C. The following is a maintenance BIT test of the EOAP.
- (1) Make sure that these circuit breakers are closed:

### LOWER EPC, DC TRANSFER BUS

Row	Col	Number	Name
U	35	B1-967	ANN PANEL
Z	41	B1-22	MASTER WARNING
Z	42	B1-227	MASTER CAUTION

#### EFFECTIVITY

WJE 401-404, 406, 410, 412, 414, 415, 417-419, 421, 423, 863-866, 869, 871, 872, 877-879, 886, 887

TP-80MM-WJE

# 33-12-00

Config 2  
Page 202  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### LOWER EPC, ENGINE - RIGHT DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
T	24	B1-972	ANN PANEL

### LOWER EPC, LIGHTS - R DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
N	34	B1-848	DIGITAL DISPLAY WARNING LIGHT & TEST
N	35	B1-574	SPARE ANN LIGHTS TEST

### LOWER EPC, MISCELLANEOUS RIGHT DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
R	25	B1-188	WARNING LIGHT DIMMING

- (2) Beginning from left, press each system cue switch. Ensure that only messages associated with that particular system, and were previously displayed, remain on the screen.

NOTE: If the screen is full, the scroll switches may need to be used to check all subsystem messages.

NOTE: If there are no messages associated with a particular system cue switch present, then a NO "system name" FAULTS (i.e., "NO ELECTRICAL FAULTS") message appears on the screen.

NOTE: If there are any messages other than "NO MONITOR FAULTS" present when the "MON" switch is pressed, the EOAP should be replaced and LRU recheck performed.

- (3) Simultaneously press and hold both scroll (arrow) switches and MON (monitor) cue switch (second cue switch from right). Check that no fault codes appear (i.e., ROM, RAM, etc.) on EOAP screens and that only following displays should come on:

**Table 201**

<b>P/N</b>	<b>Left Screen</b>	<b>Right Screen</b>
101ADP*-1	PROGRAM LS FDS 0126 LEGENDS LS FDS 0121	PROGRAM LS FDS 0126 LEGENDS LS FDS 0121
101ADP2-2	PROGRAM LS FDS 0126 LEGENDS LS FDS 0151	PROGRAM LS FDS 0126 LEGENDS LS FDS 0151
102ADP*-1	PROGRAM LS FDS 0201 LEGENDS LS FDS 0202	PROGRAM LS FDS 0201 LEGENDS LS FDS 0202
102ADP*-2	PROGRAM LS FDS 0201 LEGENDS LS FDS 0400	PROGRAM LS FDS 0201 LEGENDS LS FDS 0400
102ADP3-4	PROGRAM LS FDS 0201 LEGENDS LS CC31860	PROGRAM LS FDS 0201 LEGENDS LS CC31860

NOTE: The asterisk (\*) represents the numeral which follows "ADP" in the part number.

NOTE: Should any fault codes appear, EOAP should be replaced.

- (4) Release switches. Displays should go off momentarily.  
 (5) Return aircraft to required configuration.

#### D. EOAP Manual BITE Test

#### EFFECTIVITY

WJE 401-404, 406, 410, 412, 414, 415, 417-419, 421, 423, 863-866, 869, 871, 872, 877-879, 886, 887

TP-80MM-WJE

# 33-12-00

Config 2  
Page 203  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

- (1) Simultaneously depress both scroll keys, in conjunction with MON key; EOAP will enter BITE mode for approximately 3 seconds.
- (2) If FAULT is present, further maintenance is required.
- (3) If FAULT is no longer present, system is serviceable for dispatch.

### EFFECTIVITY

WJE 401-404, 406, 410, 412, 414, 415, 417-419, 421,  
423, 863-866, 869, 871, 872, 877-879, 886, 887

TP-80MM-WJE

**33-12-00**

Config 2  
Page 204  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### MASTER WARNING AND CAUTION SYSTEM (MWACS) ANNUNCIATOR PANEL- MAINTENANCE PRACTICES

#### 1. General

- A. Procedures are given for removing the annunciator panel from the aircraft, replacing a lamp or legend, and installing the annunciator panel. However, it is not necessary to remove the annunciator panel from the aircraft to replace only a lamp or a legend. To relamp, release spring latch, swing desired sections of legends open, remove lamp, and install new lamp. Close and latch legend door. Test lamp by pressing test lights switch on overhead switch panel.

#### 2. Removal/Installation Annunciator Panel

- A. Remove Panel

(Master Warning and Caution System -- Removal/Installation/Figure 201)

**WARNING:** GET SUFFICIENT AID FROM PERSONS AND EQUIPMENT TO HOLD THE COMPONENT DURING REMOVAL AND INSTALLATION. THIS COMPONENT WEIGHS APPROXIMATELY 60 LBS (27.2 KG). THIS WILL PREVENT INJURY TO PERSONS AND DAMAGE TO EQUIPMENT.

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

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

##### **LOWER EPC, DC TRANSFER BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	41	B1-22	MASTER WARNING
Z	42	B1-227	MASTER CAUTION

##### **LOWER EPC, LIGHTS - R DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
N	34	B1-848	DIGITAL DISPLAY WARNING LIGHT & TEST
N	35	B1-574	SPARE ANN LIGHTS TEST

##### **LOWER EPC, MISCELLANEOUS RIGHT DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
R	25	B1-188	WARNING LIGHT DIMMING

- (2) Release quick-action fasteners and safety latch and swing the forward overhead switch panel down out of way.
- (3) Disconnect electrical connectors from annunciator panel.
- (4) Remove attaching screws and remove annunciator panel.
- (5) Release spring latch clips and swing desired section of legends open.
- (6) Remove lamps.
- (7) Remove, in order: wire clip, lamp carrier, spacers, filter, and legend.
- B. Install Panel (Master Warning and Caution System -- Removal/Installation/Figure 201)

#### EFFECTIVITY

WJE 405, 407-411, 416, 420, 422, 424-427, 429, 861, 862, 868, 873-876, 880, 881, 883, 884, 891-893

TP-80MM-WJE

# 33-12-01

Config 1  
Page 201  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Make sure that these circuit breakers are open and have safety tags:

### LOWER EPC, DC TRANSFER BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	41	B1-22	MASTER WARNING
Z	42	B1-227	MASTER CAUTION

### LOWER EPC, LIGHTS - R DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
N	34	B1-848	DIGITAL DISPLAY WARNING LIGHT & TEST
N	35	B1-574	SPARE ANN LIGHTS TEST

### LOWER EPC, MISCELLANEOUS RIGHT DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
R	25	B1-188	WARNING LIGHT DIMMING

- (2) Install in order: legend, filter, spacer, lamp carrier, and wire clip.
- (3) Install lamps.
- (4) Close section of legends and secure with spring latch clips.
- (5) Position annunciator panel in aircraft and install attaching screws.
- (6) Connect electrical connectors to annunciator panel.
- (7) Close forward overhead switch panel and secure quick-action fasteners.
- (8) Remove tags and close following circuit breakers:  
,
- (9) Perform system test (MASTER WARNING AND CAUTION SYSTEM, SUBJECT 33-12-00, Page 201)

EFFECTIVITY

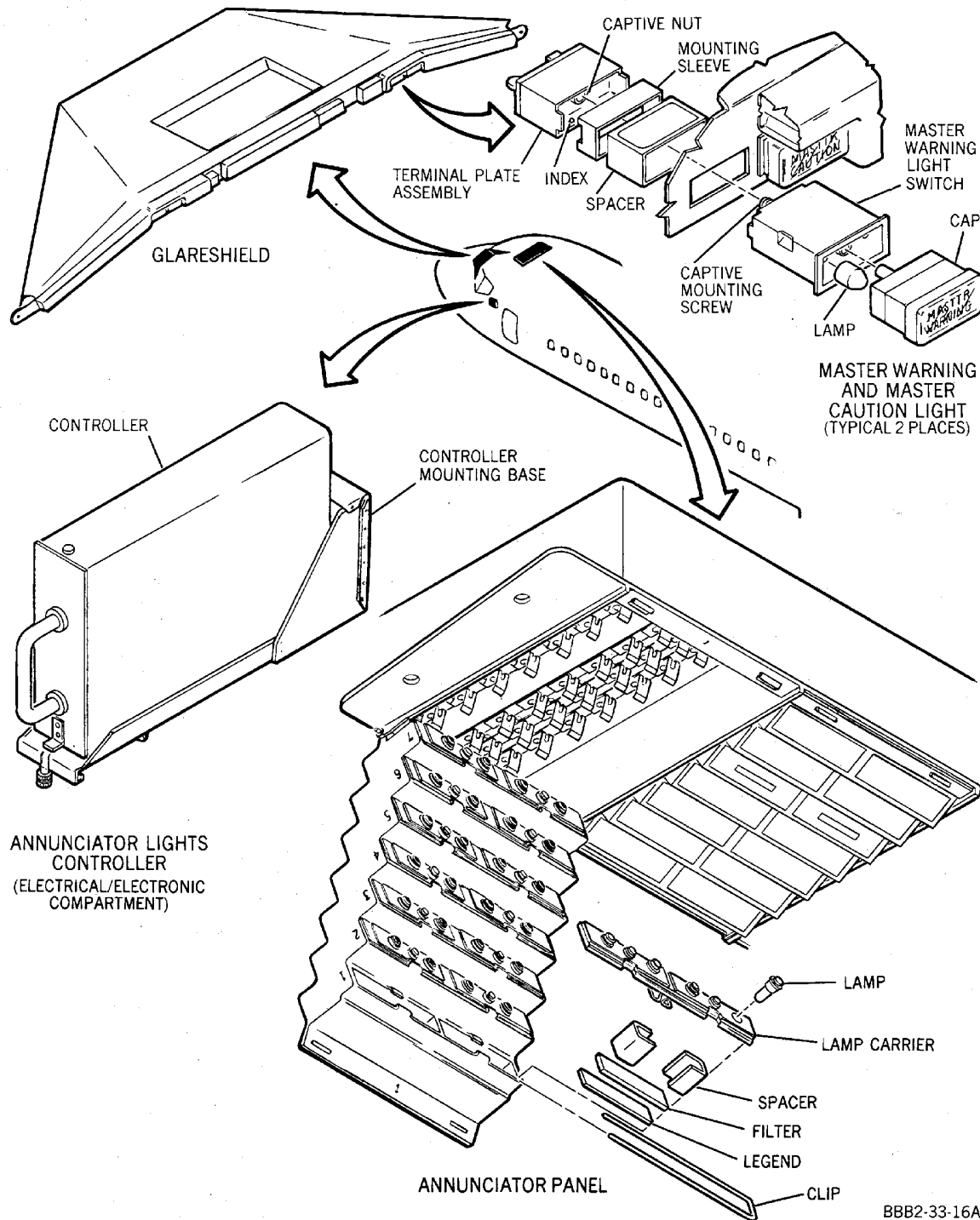
WJE 405, 407-411, 416, 420, 422, 424-427, 429, 861, 862, 868, 873-876, 880, 881, 883, 884, 891-893

TP-80MM-WJE

# 33-12-01

Config 1  
Page 202  
Feb 01/2016

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



**Master Warning and Caution System -- Removal/Installation**  
Figure 201/33-12-01-990-803

EFFECTIVITY  
WJE 405, 407-411, 416, 420, 422, 424-427, 429, 861,  
862, 868, 873-876, 880, 881, 883, 884, 891-893

TP-80MM-WJE

**33-12-01**

Config 1  
Page 203  
Feb 01/2016



## MD-80 AIRCRAFT MAINTENANCE MANUAL

### MASTER WARNING AND CAUTION SYSTEM (MWACS) ANNUNCIATOR PANEL-MAINTENANCE PRACTICES

#### 1. General

- A. Procedures are given for removing the EOAP (Electronic Overhead Annunciator Panel) from the aircraft, replacing a lamp and installing the EOAP. However, it is not necessary to remove the EOAP from the aircraft to replace only a lamp. Replacing the EOAP lamps include warning and advisory lamps, system cue switch lamps and scroll (arrow) switch lamps. Test lamp by pressing test lights switch on overhead switch panel.

#### 2. Removal/Installation Master Warning and Caution System Annunciator Panel

- A. Remove Annunciator Panel  
(Figure 201)

**WARNING:** GET SUFFICIENT AID FROM PERSONS AND EQUIPMENT TO HOLD THE COMPONENT DURING REMOVAL AND INSTALLATION. THIS COMPONENT WEIGHS APPROXIMATELY 60 LBS (27.2 KG). THIS WILL PREVENT INJURY TO PERSONS AND DAMAGE TO EQUIPMENT.

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

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

##### **LOWER EPC, DC TRANSFER BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
U	35	B1-967	ANN PANEL
Z	41	B1-22	MASTER WARNING
Z	42	B1-227	MASTER CAUTION

##### **LOWER EPC, ENGINE - RIGHT DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
T	24	B1-972	ANN PANEL

##### **LOWER EPC, LIGHTS - R DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
N	34	B1-848	DIGITAL DISPLAY WARNING LIGHT & TEST
N	35	B1-574	SPARE ANN LIGHTS TEST

##### **LOWER EPC, MISCELLANEOUS RIGHT DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
R	25	B1-188	WARNING LIGHT DIMMING

- (2) Release quick-action fasteners and safety latch and swing the forward overhead switch panel down out of way.
- (3) Disconnect electrical connectors from EOAP.
- (4) Remove attaching screws and remove annunciator panel.
- (5) Remove warning/advisory lamp as follows:
- (a) Release spring latch clips and swing legend panel open.
  - (b) Remove lamp.

#### EFFECTIVITY

WJE 401-404, 406, 412, 414, 415, 417-419, 421, 423,  
863-866, 869, 871, 872, 875-879, 886, 887

TP-80MM-WJE

# 33-12-01

Config 2  
Page 201  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

- (6) Remove scroll (arrow) switch lamp as follows:
  - (a) Loosen captive screws and remove switch housing.
  - (b) Remove lamp.
- (7) Remove system cue switch lamp as follows:
  - (a) Loosen captive screws and remove switch housing.
  - (b) Remove lamp.

### B. Install Annunciator Panel

(Figure 201)

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Make sure that these circuit breakers are open and have safety tags:

#### **LOWER EPC, DC TRANSFER BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
U	35	B1-967	ANN PANEL
Z	41	B1-22	MASTER WARNING
Z	42	B1-227	MASTER CAUTION

#### **LOWER EPC, ENGINE - RIGHT DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
T	24	B1-972	ANN PANEL

#### **LOWER EPC, LIGHTS - R DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
N	34	B1-848	DIGITAL DISPLAY WARNING LIGHT & TEST
N	35	B1-574	SPARE ANN LIGHTS TEST

#### **LOWER EPC, MISCELLANEOUS RIGHT DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
R	25	B1-188	WARNING LIGHT DIMMING

- (2) Install system cue switch lamp as follows:
  - (a) Install lamp.
  - (b) Position switch housing on panel and tighten captive screws.
- (3) Install scroll (arrow) switch lamp as follows:
  - (a) Install lamp.
  - (b) Position switch housing on panel and tighten captive screws.
- (4) Install warning/advisory lamp as follows:
  - (a) Install lamp.
  - (b) Close legend panel and secure with spring latch clips.
- (5) Position annunciator panel in aircraft and install attaching screws.
- (6) Connect electrical connectors to annunciator panel.
- (7) Close forward overhead switch panel and secure quick-action fasteners.

#### EFFECTIVITY

WJE 401-404, 406, 412, 414, 415, 417-419, 421, 423,  
863-866, 869, 871, 872, 875-879, 886, 887

TP-80MM-WJE

# 33-12-01

Config 2  
Page 202  
Feb 01/2016

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**

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

**LOWER EPC, DC TRANSFER BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
U	35	B1-967	ANN PANEL
Z	41	B1-22	MASTER WARNING
Z	42	B1-227	MASTER CAUTION

**LOWER EPC, ENGINE - RIGHT DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
T	24	B1-972	ANN PANEL

**LOWER EPC, LIGHTS - R DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
N	34	B1-848	DIGITAL DISPLAY WARNING LIGHT & TEST
N	35	B1-574	SPARE ANN LIGHTS TEST

**LOWER EPC, MISCELLANEOUS RIGHT DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
R	25	B1-188	WARNING LIGHT DIMMING

- (9) Perform system test (MASTER WARNING AND CAUTION SYSTEM, SUBJECT 33-12-00, Page 201).

**EFFECTIVITY**

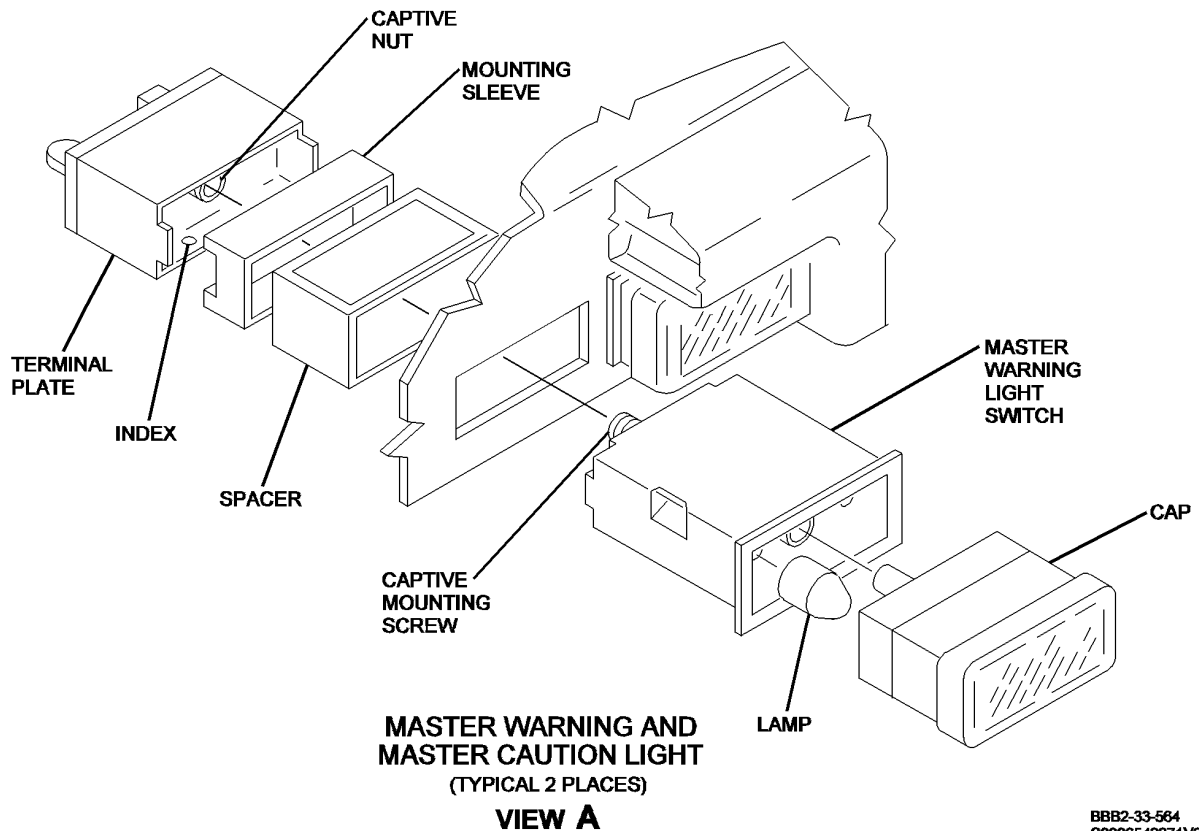
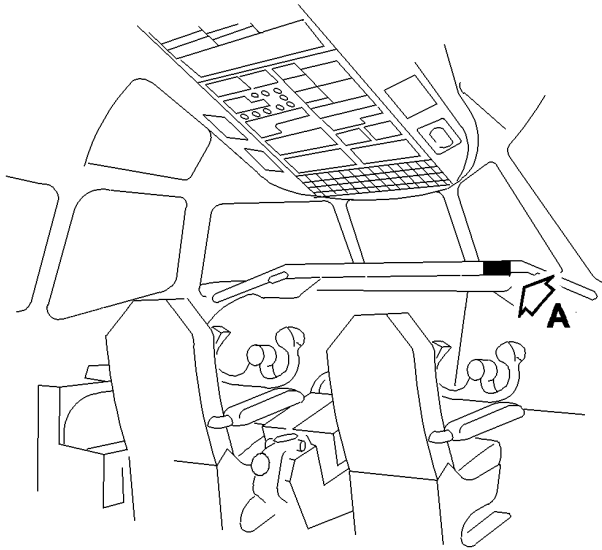
WJE 401-404, 406, 412, 414, 415, 417-419, 421, 423,  
863-866, 869, 871, 872, 875-879, 886, 887

TP-80MM-WJE

**33-12-01**

Config 2  
Page 203  
Feb 01/2016

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



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**Master Warning and Caution System -- Removal/Installation  
Figure 201/33-12-01-990-801**

**EFFECTIVITY**

WJE 401-404, 406, 412, 414, 415, 417-419, 421, 423,  
863-866, 869, 871, 872, 875-879, 886, 887

TP-80MM-WJE

**33-12-01**

Config 2  
Page 204  
Feb 01/2016

# MD-80 AIRCRAFT MAINTENANCE MANUAL

## MASTER WARNING AND CAUTION SYSTEM (MWACS) CONTROLLER - MAINTENANCE PRACTICES

### 1. General

- A. This maintenance practice provides removal/installation of the Master Warning and Caution System (MWACS) Controller.

### 2. Removal/Installation MWACS Controller

- A. Remove Controller Figure 201 or Figure 202

**WARNING:** TAG AND SAFETY CIRCUIT BREAKERS.

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

#### **LOWER EPC, DC TRANSFER BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	41	B1-22	MASTER WARNING
Z	42	B1-227	MASTER CAUTION

#### **LOWER EPC, LIGHTS - R DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
N	34	B1-848	DIGITAL DISPLAY WARNING LIGHT & TEST
N	35	B1-574	SPARE ANN LIGHTS TEST

#### **LOWER EPC, MISCELLANEOUS RIGHT DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
R	25	B1-188	WARNING LIGHT DIMMING

- (2) Loosen hold-down nuts at lower front end of controller.  
 (3) Swing hold-down nuts down to clear controller.  
 (4) Carefully pull controller straight out of mount.  
 (5) If controller is being replaced, carefully package defective unit into container that originally contained the new unit and identify as being defective.

- B. Install Controller Figure 201 or Figure 202

**WARNING:** TAG AND SAFETY CIRCUIT BREAKERS.

- (1) Make sure that these circuit breakers are open and have safety tags:

#### **LOWER EPC, DC TRANSFER BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	41	B1-22	MASTER WARNING
Z	42	B1-227	MASTER CAUTION

#### **LOWER EPC, LIGHTS - R DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
N	34	B1-848	DIGITAL DISPLAY WARNING LIGHT & TEST
N	35	B1-574	SPARE ANN LIGHTS TEST

#### **LOWER EPC, MISCELLANEOUS RIGHT DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
R	25	B1-188	WARNING LIGHT DIMMING

- (2) Visually check controller connectors for damage and foreign objects.

EFFECTIVITY  
WJE ALL

# 33-12-02

## MD-80 AIRCRAFT MAINTENANCE MANUAL

- (3) Place controller on mount and carefully slide to the rear of the mount.
- (4) Raise hold-down nuts, mate with controller hold-down lugs, and tighten securely.
- (5) Remove the safety tags and close these circuit breakers:

### LOWER EPC, DC TRANSFER BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	41	B1-22	MASTER WARNING
Z	42	B1-227	MASTER CAUTION

### LOWER EPC, LIGHTS - R DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
N	34	B1-848	DIGITAL DISPLAY WARNING LIGHT & TEST
N	35	B1-574	SPARE ANN LIGHTS TEST

### LOWER EPC, MISCELLANEOUS RIGHT DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
R	25	B1-188	WARNING LIGHT DIMMING

- (6) Perform system test (MASTER WARNING AND CAUTION SYSTEM, SUBJECT 33-12-00, Page 201).

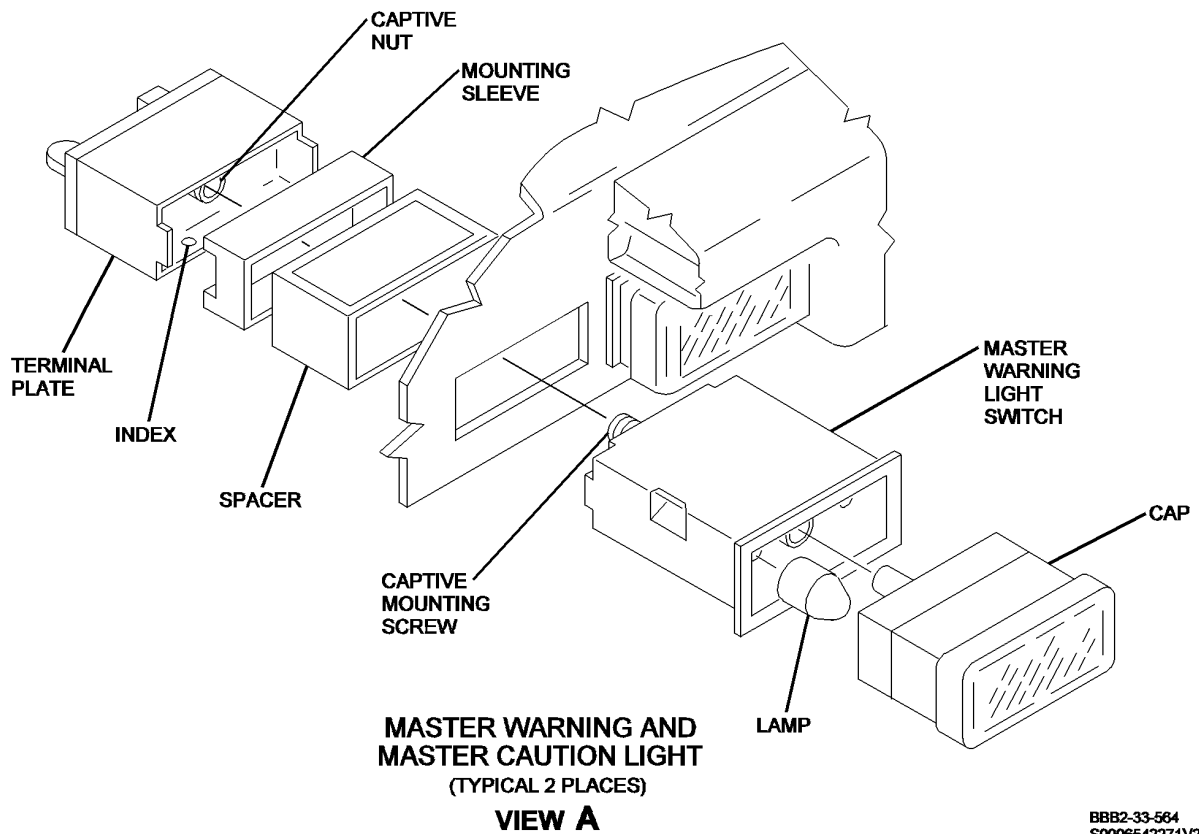
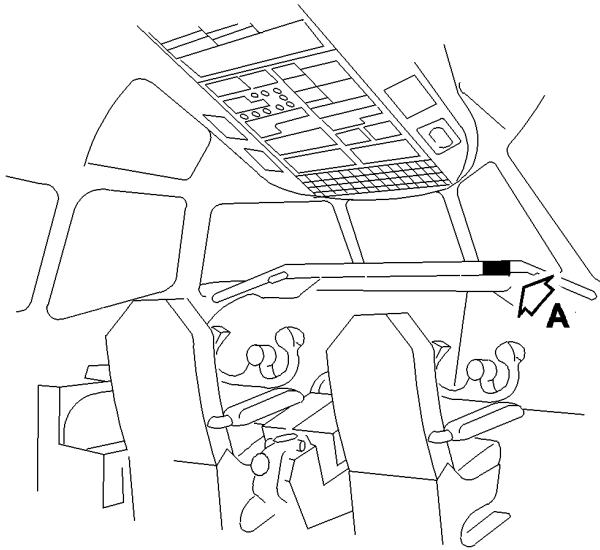
EFFECTIVITY  
WJE ALL

TP-80MM-WJE

# 33-12-02

Page 202  
Feb 01/2015

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



BBB2-33-564  
S0006542271V2

**Master Warning and Caution System -- Removal/Installation  
Figure 201/33-12-02-990-801**

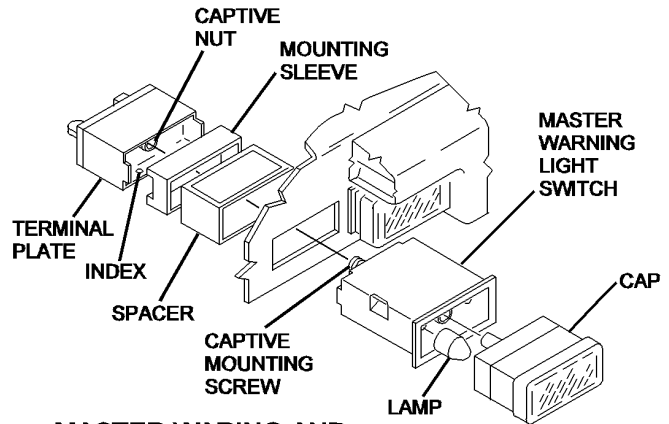
EFFECTIVITY  
WJE ALL

**33-12-02**

TP-80MM-WJE

Page 203  
Feb 01/2015

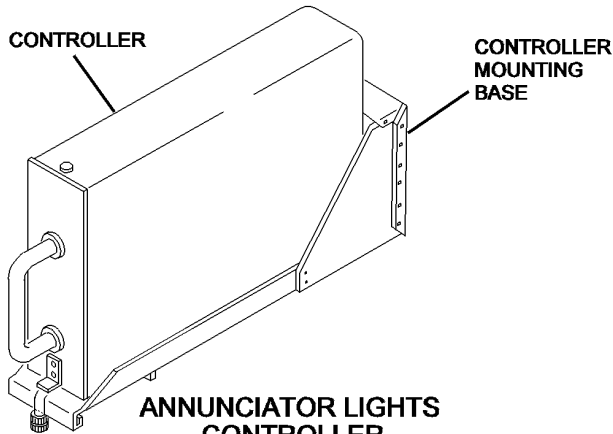
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**MASTER WARNING AND  
MASTER CAUTION LIGHT  
(TYPICAL 2 PLACES)  
VIEW A**

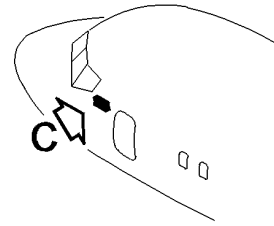
	AC CROSS-TIE LOCKOUT	L ENG ANTHICE ON	R ENG ANTHICE ON	I FUEL HEAT ON	R FUEL HEAT ON	YAW DAMP OFF	CAWS FAIL	RUDDER TRAVEL UNRESTRICTED	AUTO SPOILER DO NOT USE	ELEVATOR PWR ON	SPOILER FLAP EXTENDED	R ICE FOD ALERT	AFT CARGO DOOR
	DC TRANSFER BUS OFF	WING ANTHICE ON	TAIL DE-ICE ON	ENG SYNC ON	AIR INOP		AUTO BRAKE FNL	TRANSFORDER INOP	WINGWEAR INOP	PARKING BRAKES ON	RUDDER CONTROL MANUAL	TALCONE	MID CARGO DOOR
APU GEN OFF	DC TRANSFER BUS OFF	L ICE FOD ALERT	PITOT/STALL HEATER OFF	L START VALVE OPEN	R START VALVE OPEN	CABIN OXYGEN ON	AUTO SLAT FAIL	STALL INDICATION FAILURE	L ICE FOD SYS INOP	L HYDRESER ACCUMULATOR LOW	R HYDRESER ACCUMULATOR LOW	AFT STAIRWAY DOOR	FWD CARGO DOOR
L AC BUS OFF	R AC BUS OFF	L ICE PROTECT TEMP HIGH	R ICE PROTECT TEMP HIGH	L OIL STRAINER CLOGGING	R OIL STRAINER CLOGGING	GPWS FAIL	SPOILER DEPLOYED	MACH TRIM INOP	APU OIL TEMP HIGH	L HYD TEMP HI	R HYD TEMP HI	AFT CABIN DOOR	ELECT COMP DOOR
L GEN OFF	R GEN OFF	AMP/OLC PROT PRESS ABNORMAL	ICE PROTECT SUPPLY PRESS HI	L OIL PRESS LOW	R OIL PRESS LOW		TAIL COMPT TEMP HIGH	FIRE DETECTOR LOOP	APU OIL PRESS LOW	L HYD PRESS LOW	R HYD PRESS LOW	AFT GALLEY DOOR	ACCESS COMP DOOR
L CSD OIL PRESS LOW	R CSD OIL PRESS LOW	L ICE PROTECT TEMP LOW	R ICE PROTECT TEMP LOW	L INLET FUEL PRESS LOW	R INLET FUEL PRESS LOW	CABIN ALT	APU FIRE	L AIR COND SUPPLY TEMP HI	R AIR COND SUPPLY TEMP HI	L OUTBD ANTI-SKID	R OUTBD ANTI-SKID	FWD STAIRWAY DOOR	R ICE FOD SYS
EMER LIGHT NOT ARMED	DC BUS OFF	L ENG VALVE	R ENG VALVE	L FUEL FILTER PRESS DROP	R FUEL FILTER PRESS DROP	AC EMER BUS OFF	DC EMER BUS OFF	RADIO FAN OFF	FLT RECORDER OFF	L INBD ANTI-SKID	R INBD ANTI-SKID	FWD CABIN DOOR	FWD GALLEY DOOR

**VIEW B**



**ANNUNCIATOR LIGHTS  
CONTROLLER  
(ELECTRICAL/ELECTRONIC COMPARTMENT)**

**VIEW C**



BBB2-33-563  
S0000249354V1

## Master Warning and Caution System (MWACS) -- Removal/Installation Figure 202/33-12-02-990-802

EFFECTIVITY  
WJE ALL

**33-12-02**



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## MASTER WARNING AND MASTER CAUTION LIGHT - MAINTENANCE PRACTICES

### 1. General

- A. This maintenance practice provides removal/installation procedures to verify correct operation of the Master Warning and Master Caution light. The check is presented in sequence and identified by component functions.

### 2. Removal/Installation Master Warning and Caution System Light Switch

- A. Remove Light Switch Unit (Figure 201)

NOTE: Removal of the Master Warning and Master Caution light switch units are identical.

WARNING: TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

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

#### **LOWER EPC, DC TRANSFER BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	41	B1-22	MASTER WARNING
Z	42	B1-227	MASTER CAUTION

- (2) Remove cap by simultaneously squeezing cap and pulling cap away from light switch.
- (3) Remove lamps.
- (4) Gain access to electrical wires at rear of light switch.
- (5) Disconnect electrical wires from light switch.
- (6) Completely loosen captive mounting screw (located in body of light switch), while holding spacer, mounting sleeve, and terminal plate.
- (7) Slide spacer, mounting sleeve, and terminal plate off of body of the light switch.
- (8) Remove light switch from glareshield.

- B. Install Light Switch Unit Figure 201

NOTE: Installation of the Master Warning and Master Caution light switch units are identical.

WARNING: TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Make sure that these circuit breakers are open and have safety tags:

#### **LOWER EPC, DC TRANSFER BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	41	B1-22	MASTER WARNING
Z	42	B1-227	MASTER CAUTION

- (2) Slide light switch into glareshield.
- (3) Slide spacer, mounting sleeve, and terminal plate onto body of light switch, making certain that index protrusion in terminal plate assembly aligns with slot in light switch.
- (4) Tighten captive screw located in body of light switch.
- (5) Connect electrical wires to light switch.
- (6) Insert lamps into light switch.
- (7) Press cap onto light switch.

EFFECTIVITY  
WJE ALL

# 33-12-04

**MD-80  
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- (8) Remove the safety tags and close these circuit breakers:

**LOWER EPC, DC TRANSFER BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	41	B1-22	MASTER WARNING
Z	42	B1-227	MASTER CAUTION

- (9) Perform system test (MASTER WARNING AND CAUTION SYSTEM, SUBJECT 33-12-00, Page 201).

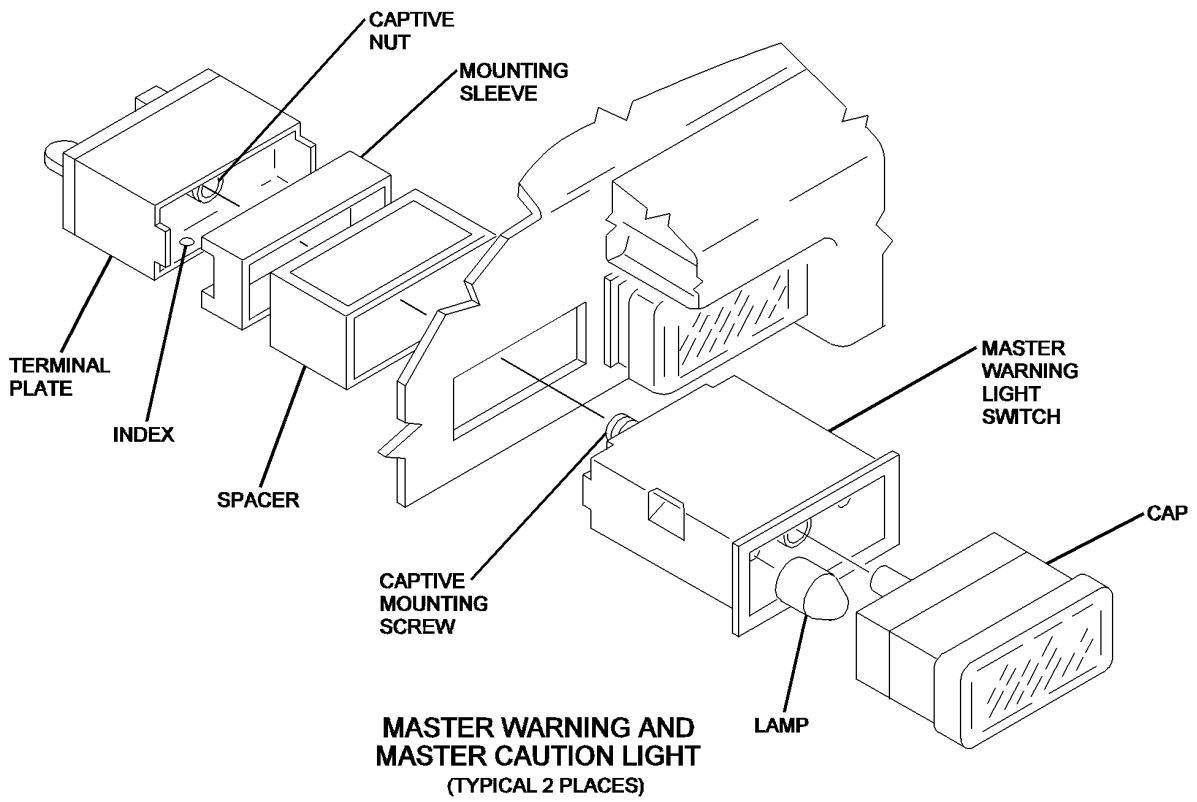
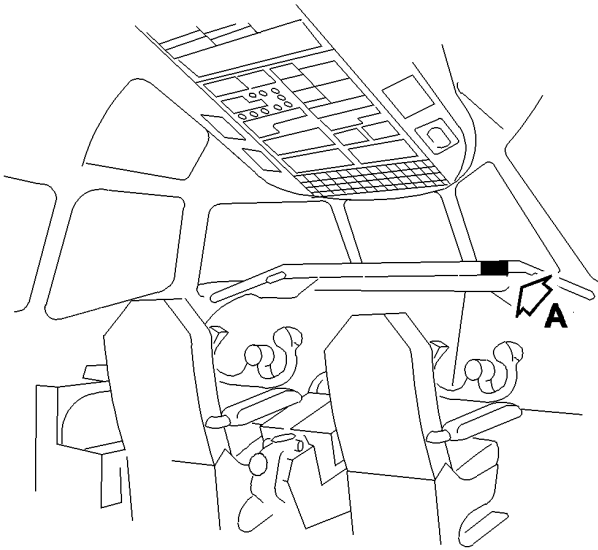
EFFECTIVITY  
WJE ALL

TP-80MM-WJE

**33-12-04**

Page 202  
Feb 01/2015

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S0006542271V2

Master Warning and Caution System -- Removal/Installation  
Figure 201/33-12-04-990-801

EFFECTIVITY  
WJE ALL

## 33-12-04

TP-80MM-WJE

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### PASSENGER COMPARTMENTS - DESCRIPTION AND OPERATION

#### 1. General

- A. The passenger compartment lighting includes all cabin lights, utility and work lights, lighted signs, cabin panels, and the passenger call system. Combinations of direct and indirect, incandescent and fluorescent, and electroluminescent lights are used. Most of the light switches are located on the cabin attendant's control panels or adjacent to the light fixtures.

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

**33-20-00**

Page 1  
Feb 01/2015

**MD-80  
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**CABIN LIGHTS - DESCRIPTION AND OPERATION**

**1. Description**

- A. The cabin lights consist of upper and lower sidewall lights, aisle lights, and door and entrance lights.
- B. The sidewall lights provide indirect lighting from fluorescent light fixtures installed within recesses in the upper and lower portions of the overhead stowage racks. Sidewall light fixtures consist of a mounting with pushbutton type lamp holders, a reflector, a mounting bracket for the light ballast, and a ballast. Access to the upper sidewall lights is above the overhead stowage compartment. Access to the lower sidewall lights is by lowering the applicable passenger service module. Two recessed fasteners secure each module to the airplane structure. Separate control switches for upper and lower sidewall lighting control are provided at the forward attendant control panel.
- C. The aisle lights are installed in the forward and aft ceiling area and in the galley ceiling. Separate control switches for the forward and aft lights are located on the forward and aft attendant's panels.
- D. The forward door and entrance lights are installed in the cabin ceiling above each entrance door. The control switch for the passenger forward entrance door light is located on the forward attendant's panel. The control switch for the forward service entry light is located on the fixture. Each door and entrance light fixture contains emergency light installations.
- E. The aft entrance lights are installed in the aft cabin ceiling above the passenger aft entrance door, and in the aft entrance stair area. The aft entrance lights consist of the passenger aft entrance door light, aft entrance stair fluorescent lights, and aft entrance stair floodlights. These lights can be controlled either by a switch on the aft attendant's panel or by a switch on the aft entrance stair control panel (external).

**WJE 405-411, 415-427, 429, 861-866, 868, 869, 871, 872, 880, 881, 883, 884, 886, 887, 891**

NOTE: References to the aft service door light are not applicable on MD-87 series aircraft.

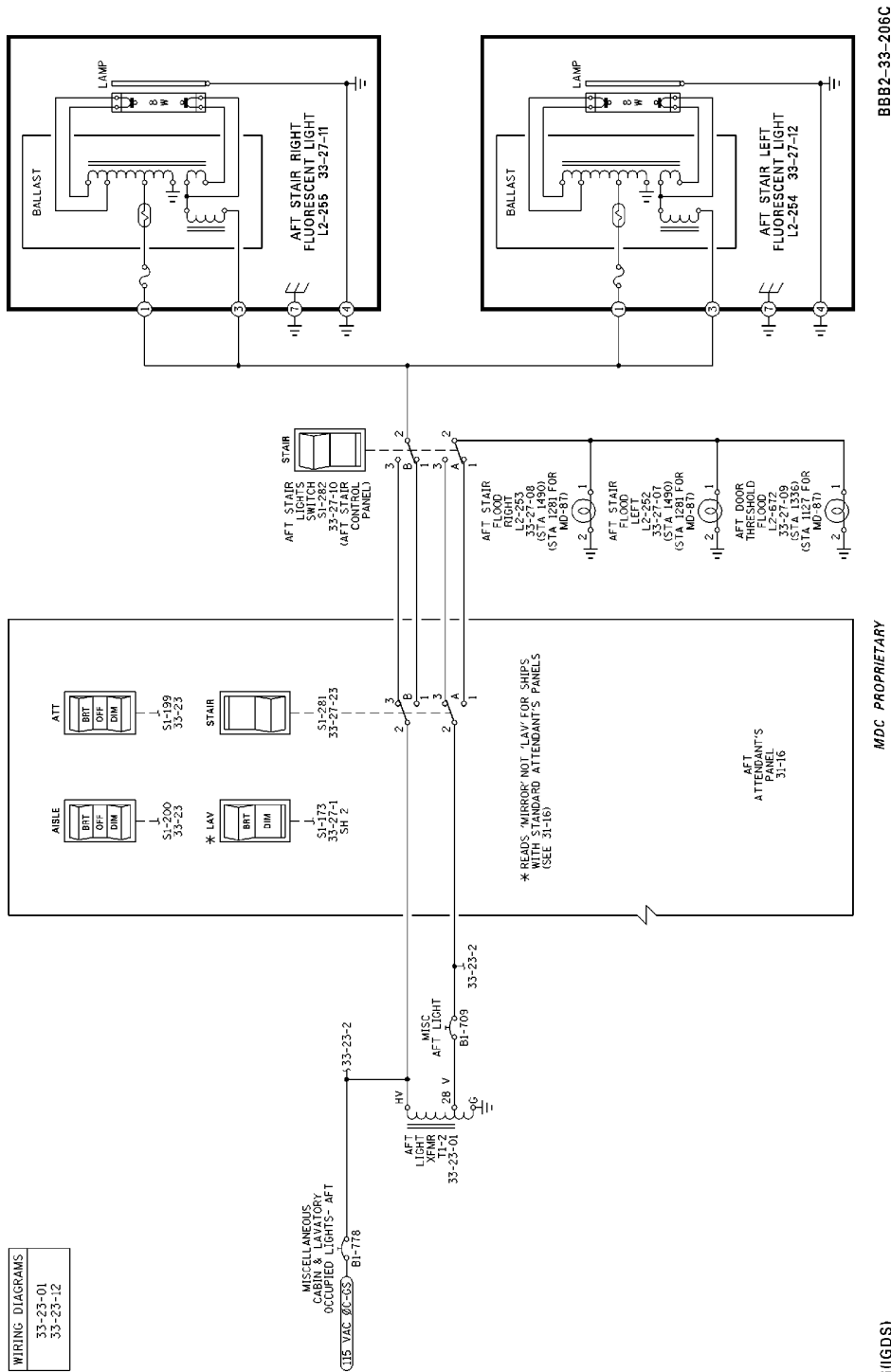
EFFECTIVITY  
WJE ALL

TP-80MM-WJE

**33-21-00**

Page 1  
Feb 01/2016

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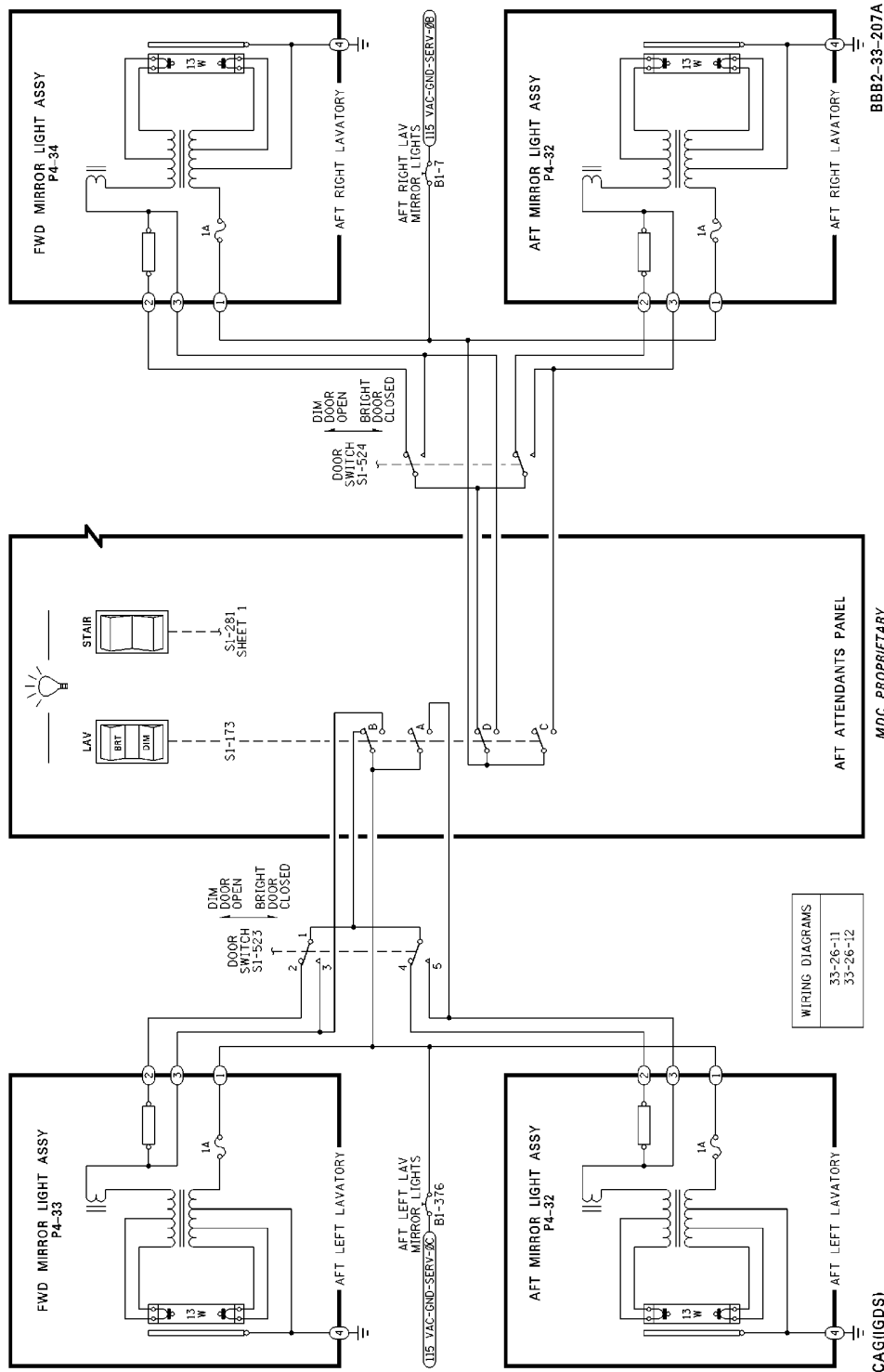


Aft Lavatory and Stair Lights -- Schematic  
Figure 1/33-21-00-990-806

EFFECTIVITY  
WJE ALL

33-21-00

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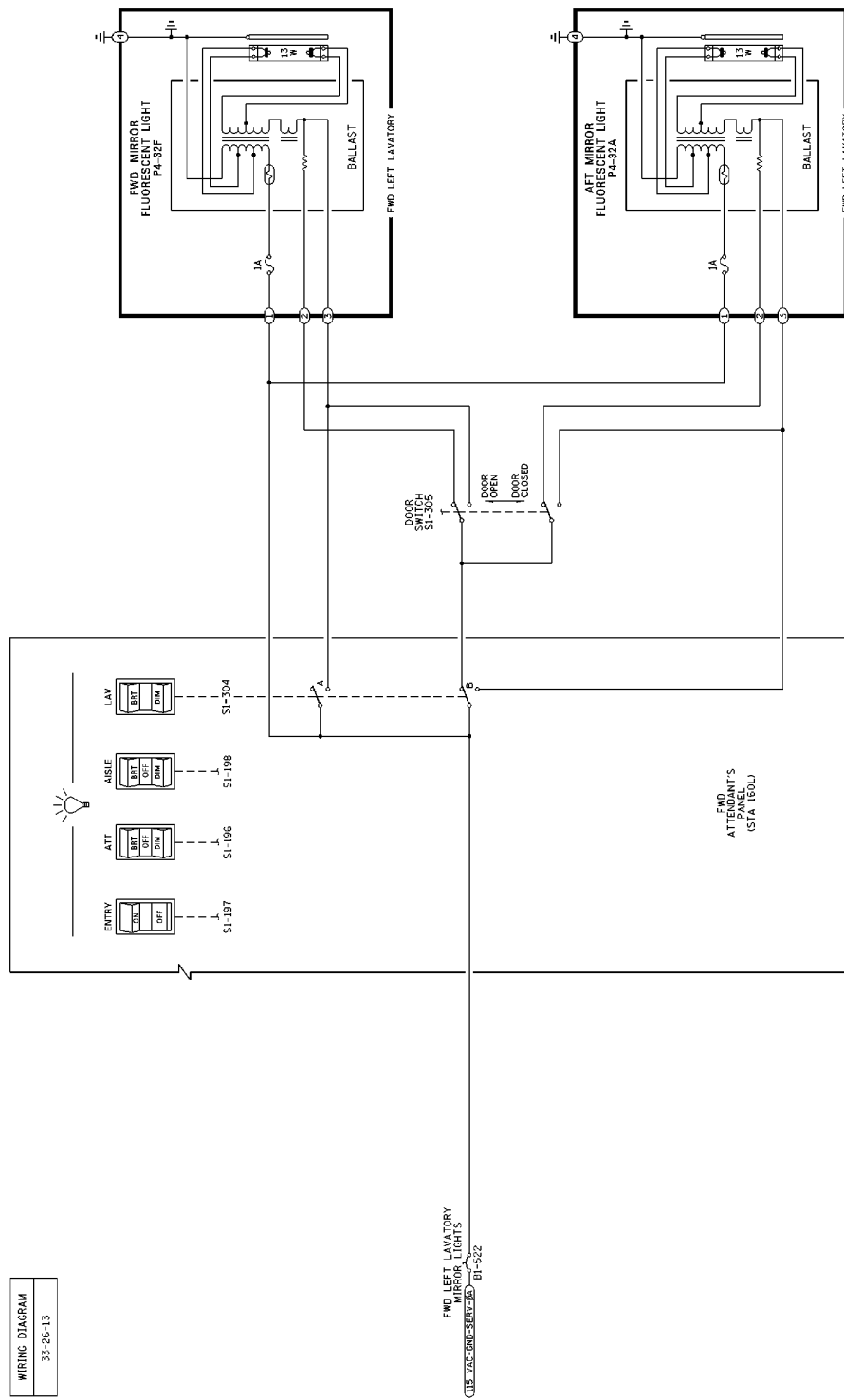


**Aft Lavatory and Stair Lights -- Schematic**  
**Figure 2/33-21-00-990-820**

EFFECTIVITY  
WJE ALL

**33-21-00**

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**Forward Lavatory Lights -- Schematic  
Figure 3/33-21-00-990-807**

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

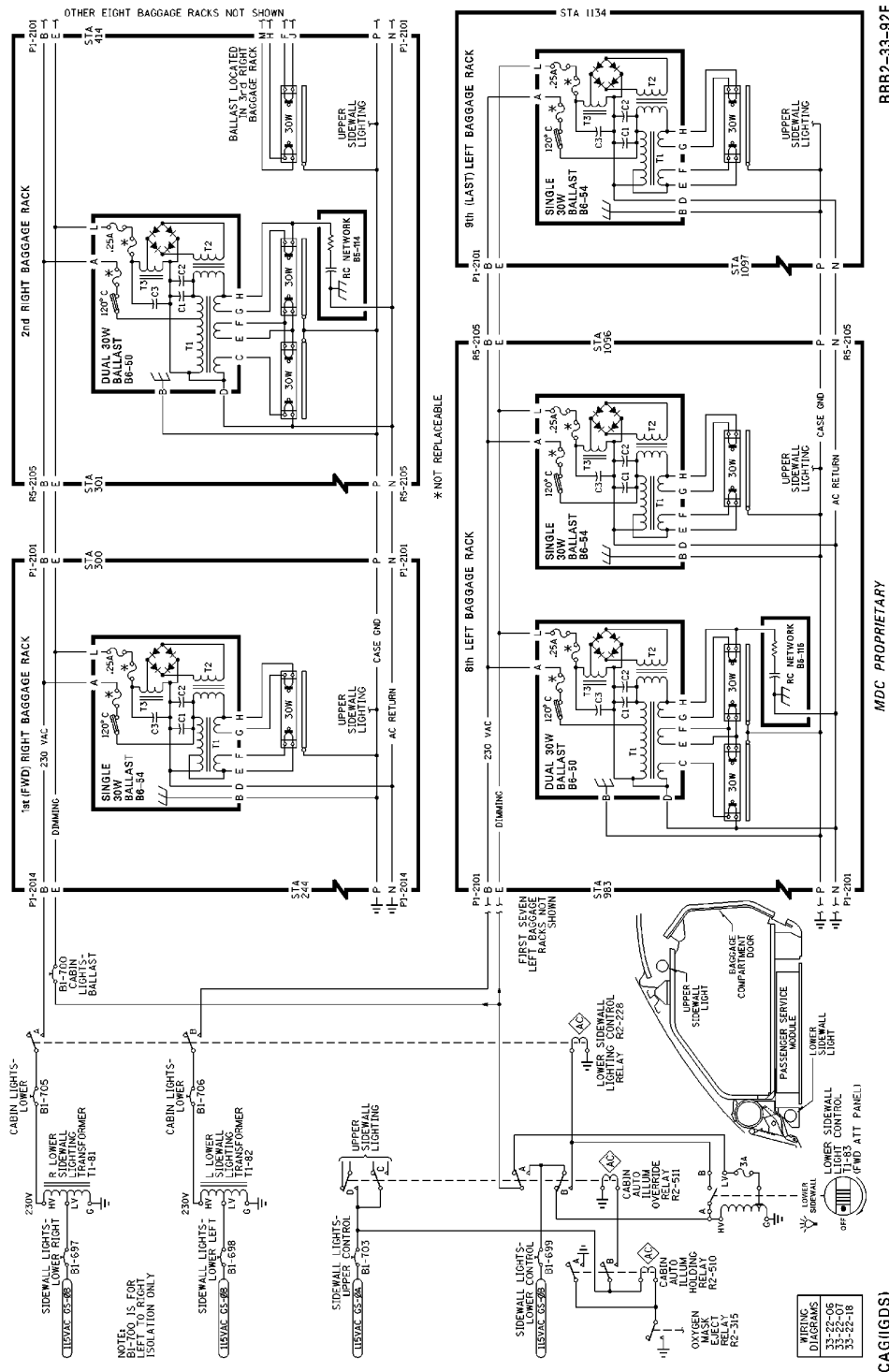
**33-21-00**

Page 4  
Feb 01/2016





# MD-80 AIRCRAFT MAINTENANCE MANUAL



Cabin Lower Sidewall Lighting - Schematic  
Figure 4/33-21-00-990-808 (Sheet 2 of 8)

EFFECTIVITY  
WJE 886, 887

TP-80MM-WJE

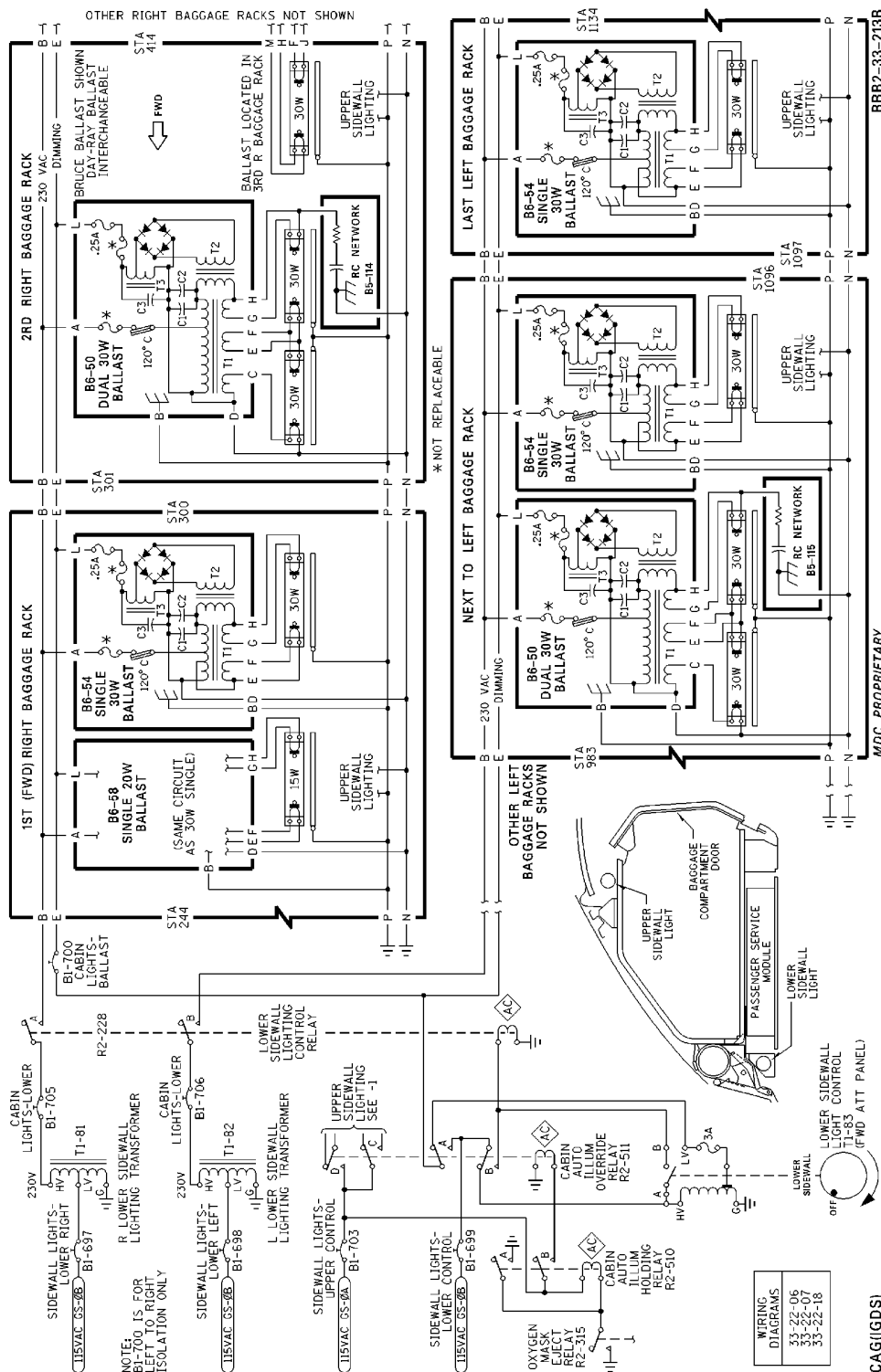
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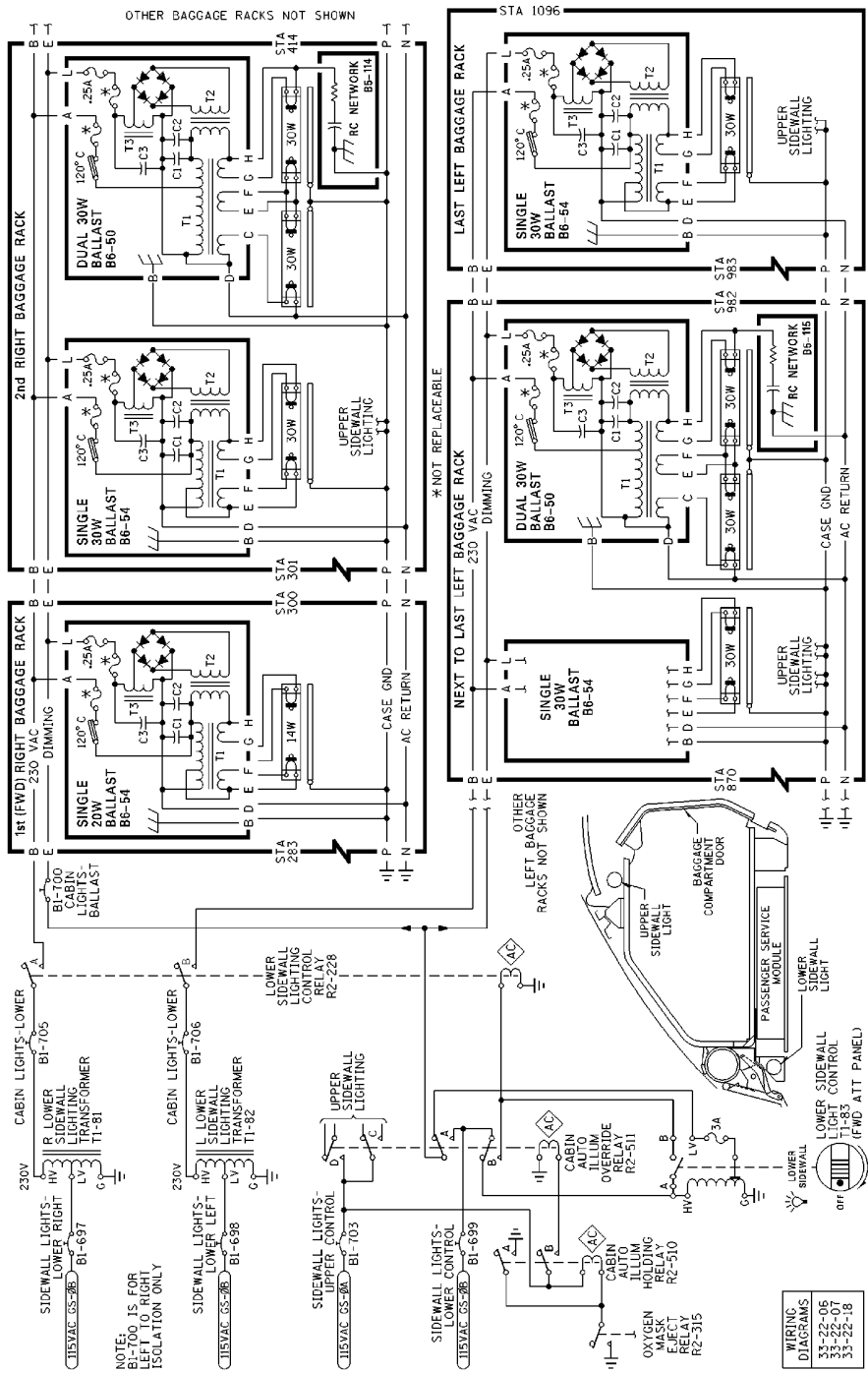


**Cabin Lower Sidewall Lighting - Schematic**  
Figure 4/33-21-00-990-808 (Sheet 3 of 8)

**EFFECTIVITY**  
WJE 401-404, 412, 414, 880

## 33-21-00

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**AIRCRAFT MAINTENANCE MANUAL**



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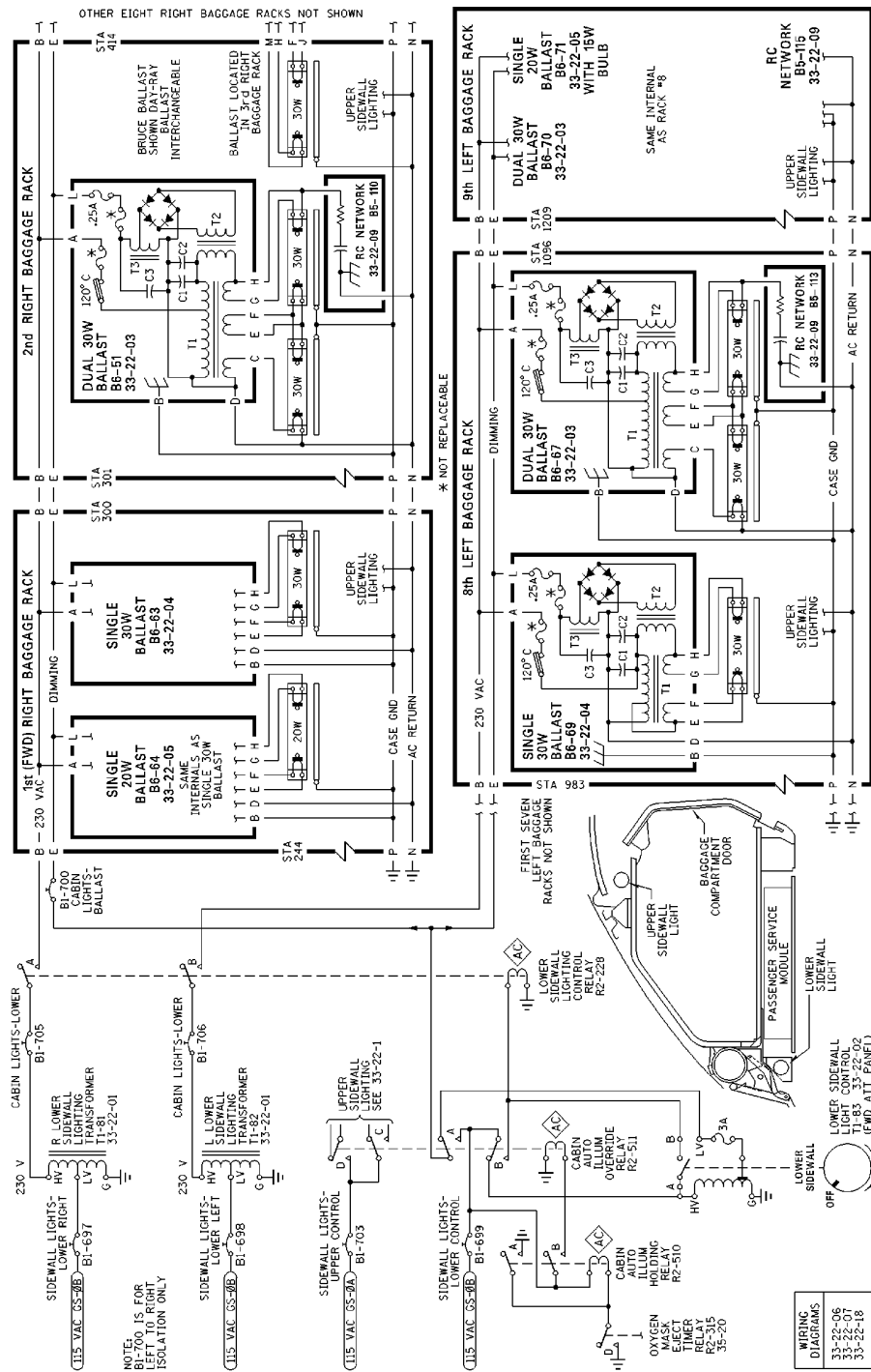
CAG(I)GDS)

**Cabin Lower Sidewall Lighting - Schematic**  
**Figure 4/33-21-00-990-808 (Sheet 4 of 8)**

EFFECTIVITY  
WJE 407, 408, 411

**33-21-00**

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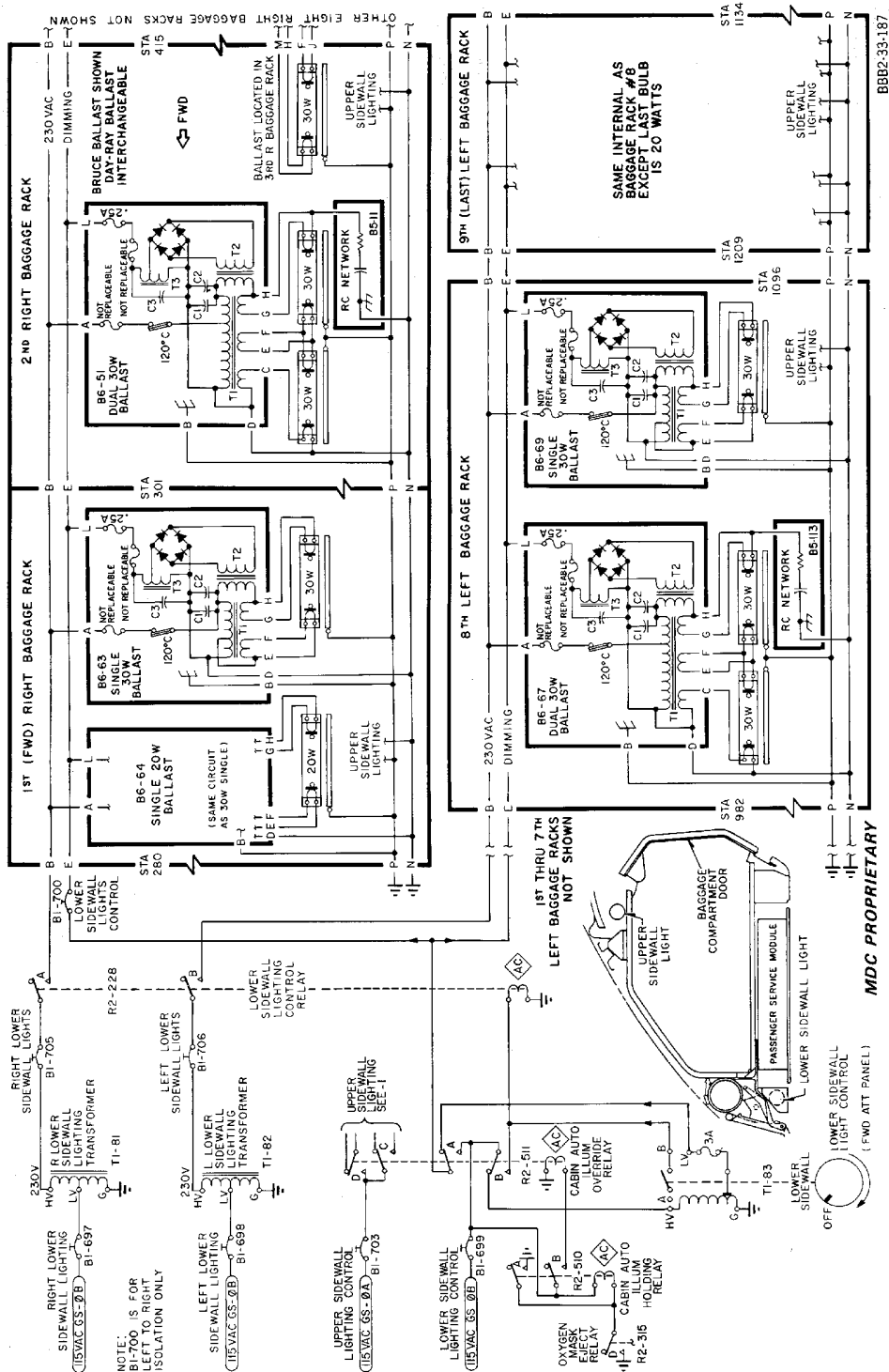
CAG(IGDS)

Cabin Lower Sidewall Lighting - Schematic  
Figure 4/33-21-00-990-808 (Sheet 5 of 8)

EFFECTIVITY  
WJE 405, 409, 873, 874, 881, 883, 884

33-21-00

# MD-80 AIRCRAFT MAINTENANCE MANUAL



**Cabin Lower Sidewall Lighting - Schematic**  
 Figure 4/33-21-00-990-808 (Sheet 6 of 8)

EFFECTIVITY  
 WJE 892, 893

**33-21-00**

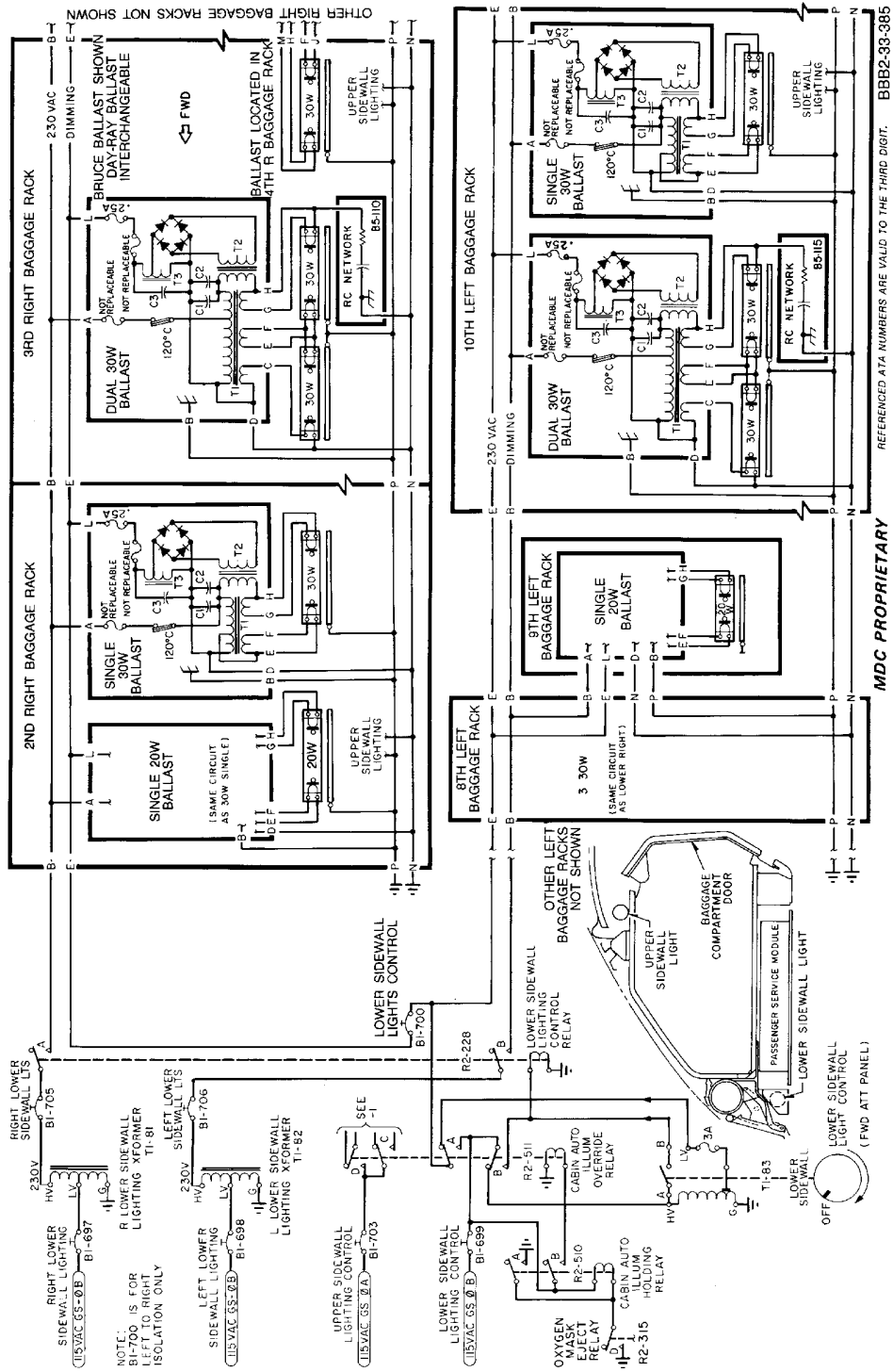
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**Cabin Lower Sidewall Lighting - Schematic  
Figure 4/33-21-00-990-808 (Sheet 7 of 8)**

EFFECTIVITY  
WJE 875-879

**33-21-00**

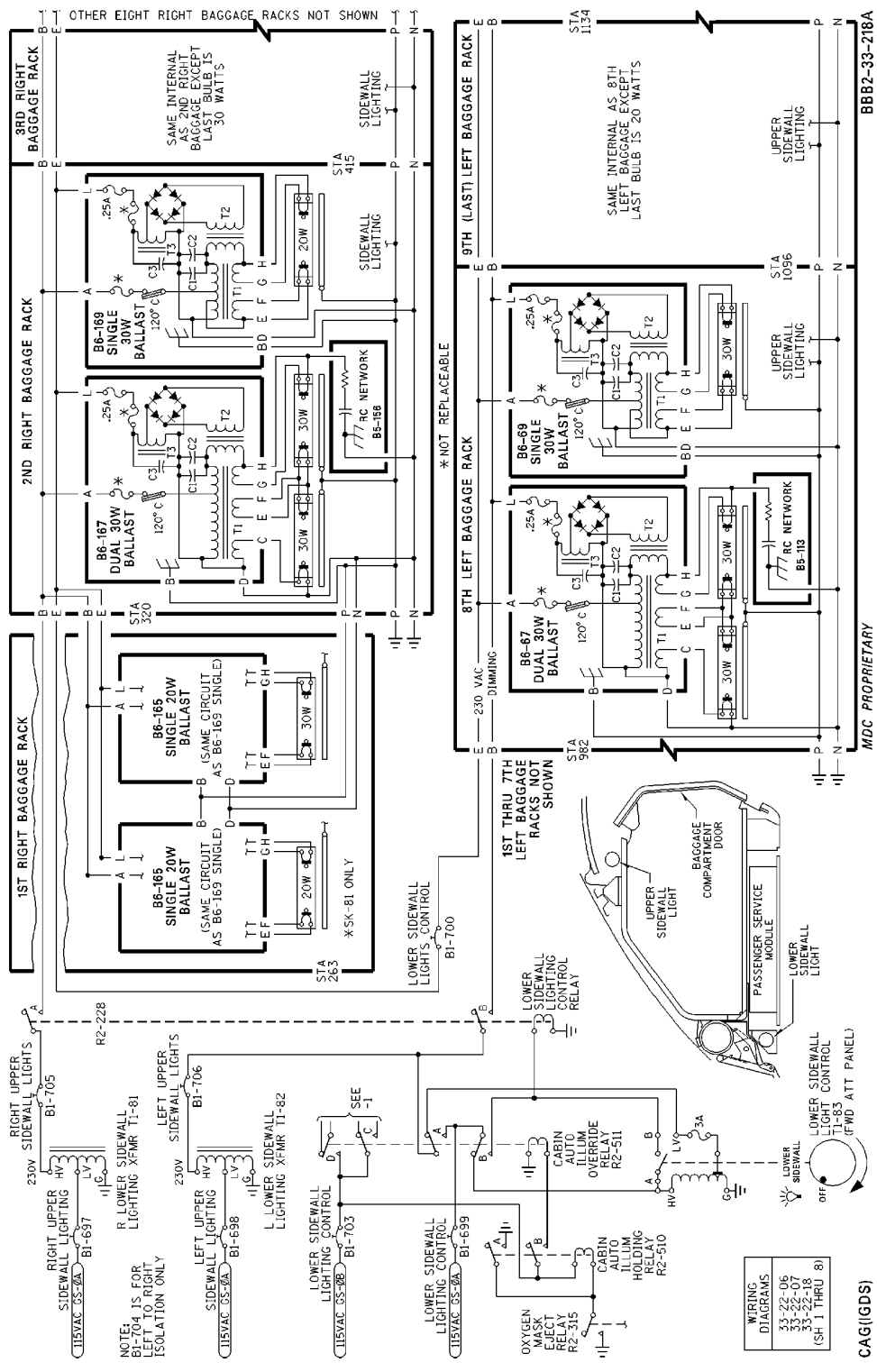
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Page 11  
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Cabin Lower Sidewall Lighting - Schematic  
Figure 4/33-21-00-990-808 (Sheet 8 of 8)

EFFECTIVITY  
WJE 415-427, 429, 861-866, 868, 869, 871, 872, 891

TP-80MM-WJE

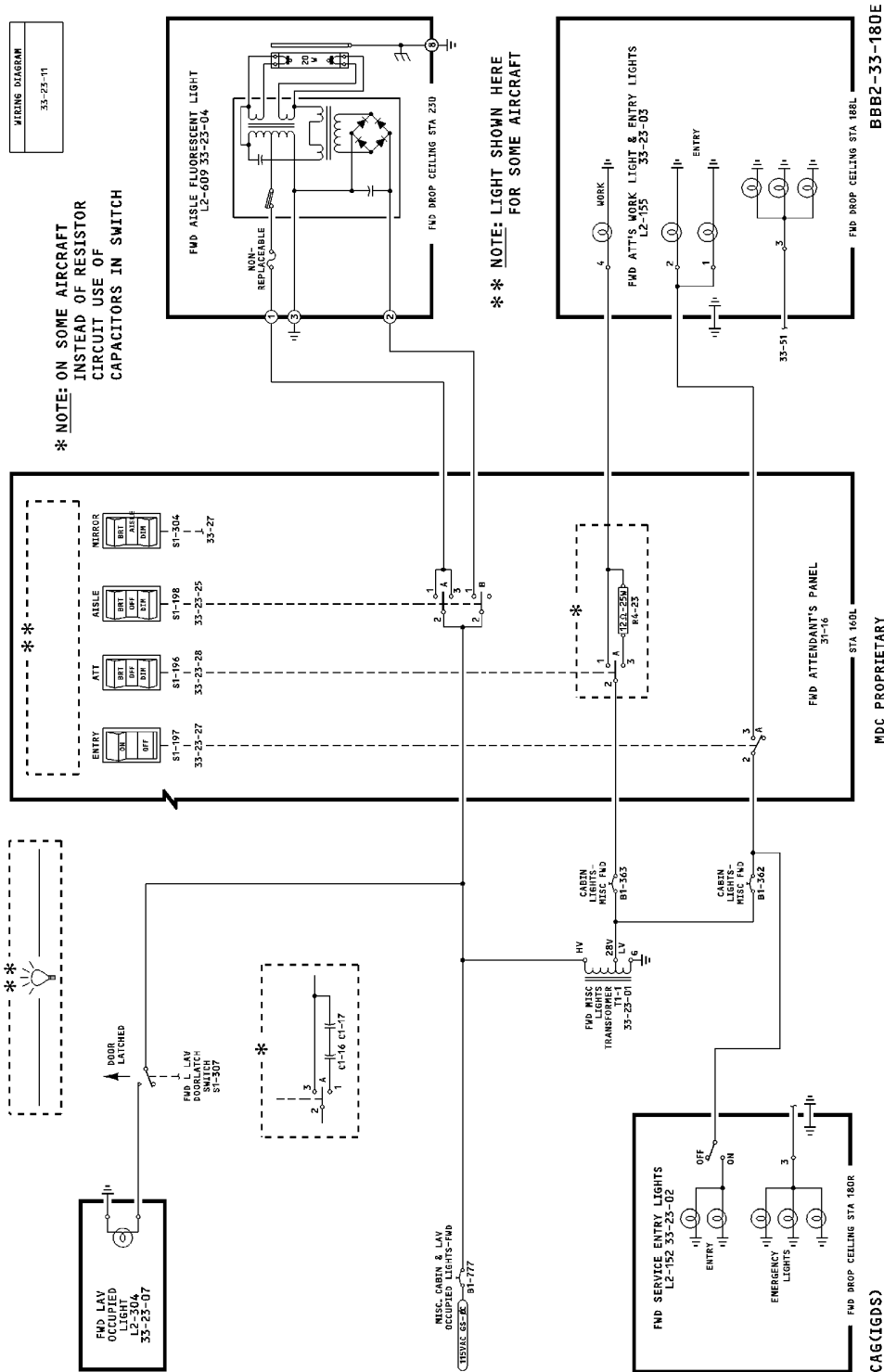
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Forward Aisle and Attendant's Lights - Schematic  
Figure 5/33-21-00-990-809 (Sheet 1 of 3)

EFFECTIVITY  
WJE 405-411, 873-881, 883, 884, 886, 887, 892, 893

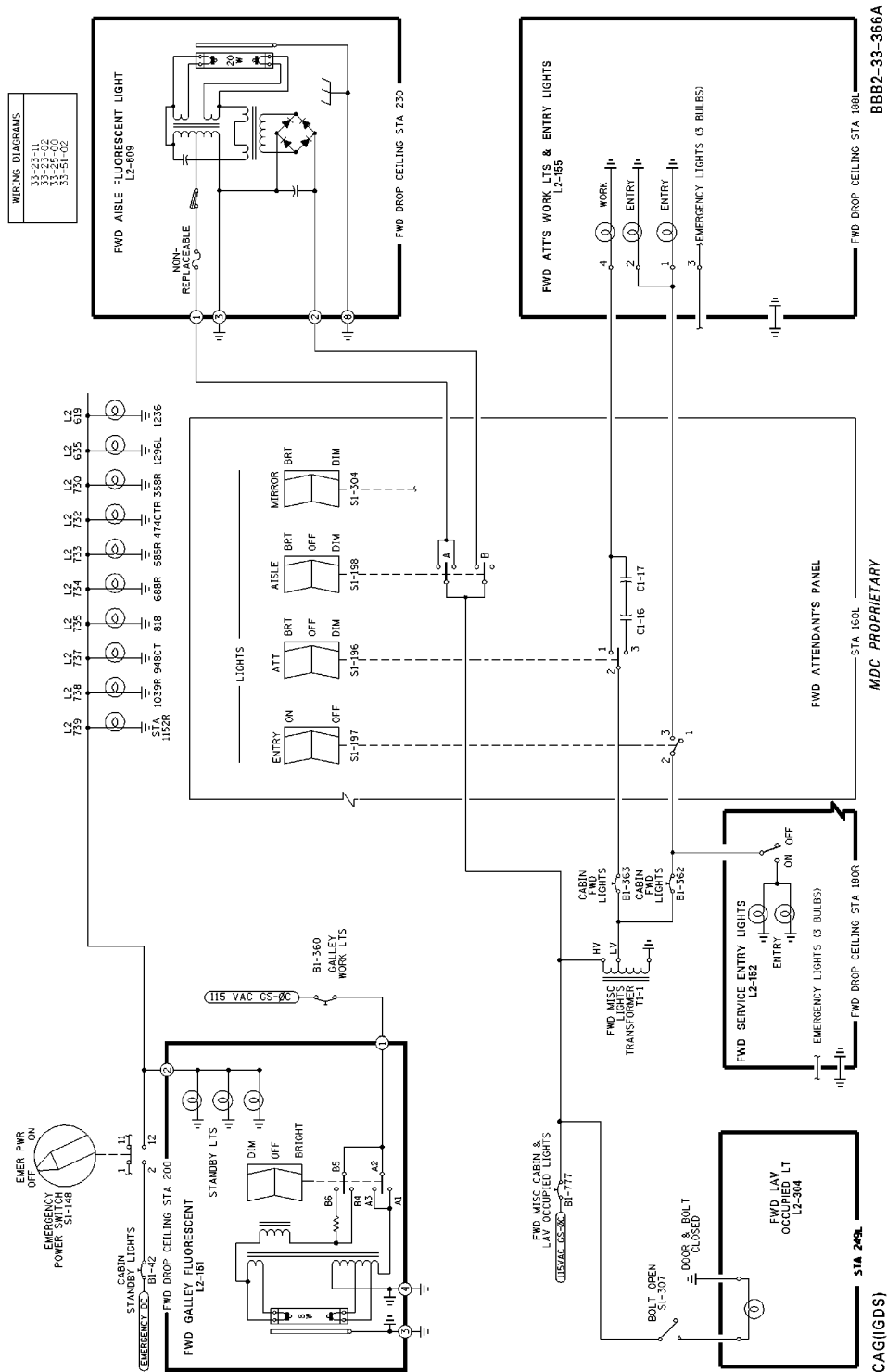
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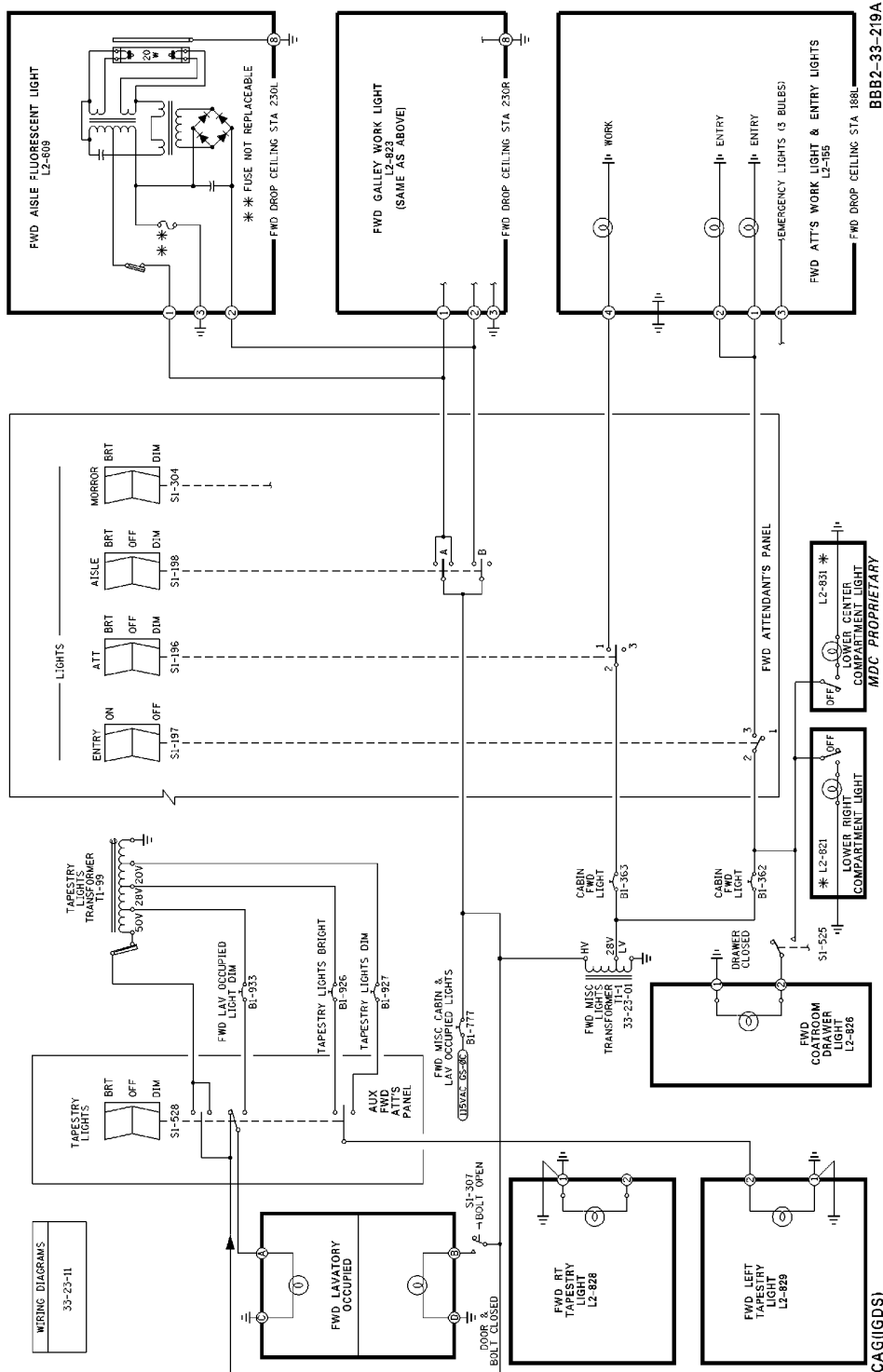


Forward Aisle and Attendant's Lights - Schematic  
Figure 5/33-21-00-990-809 (Sheet 2 of 3)

EFFECTIVITY  
WJE 401-404, 412, 414

33-21-00

# MD-80 AIRCRAFT MAINTENANCE MANUAL

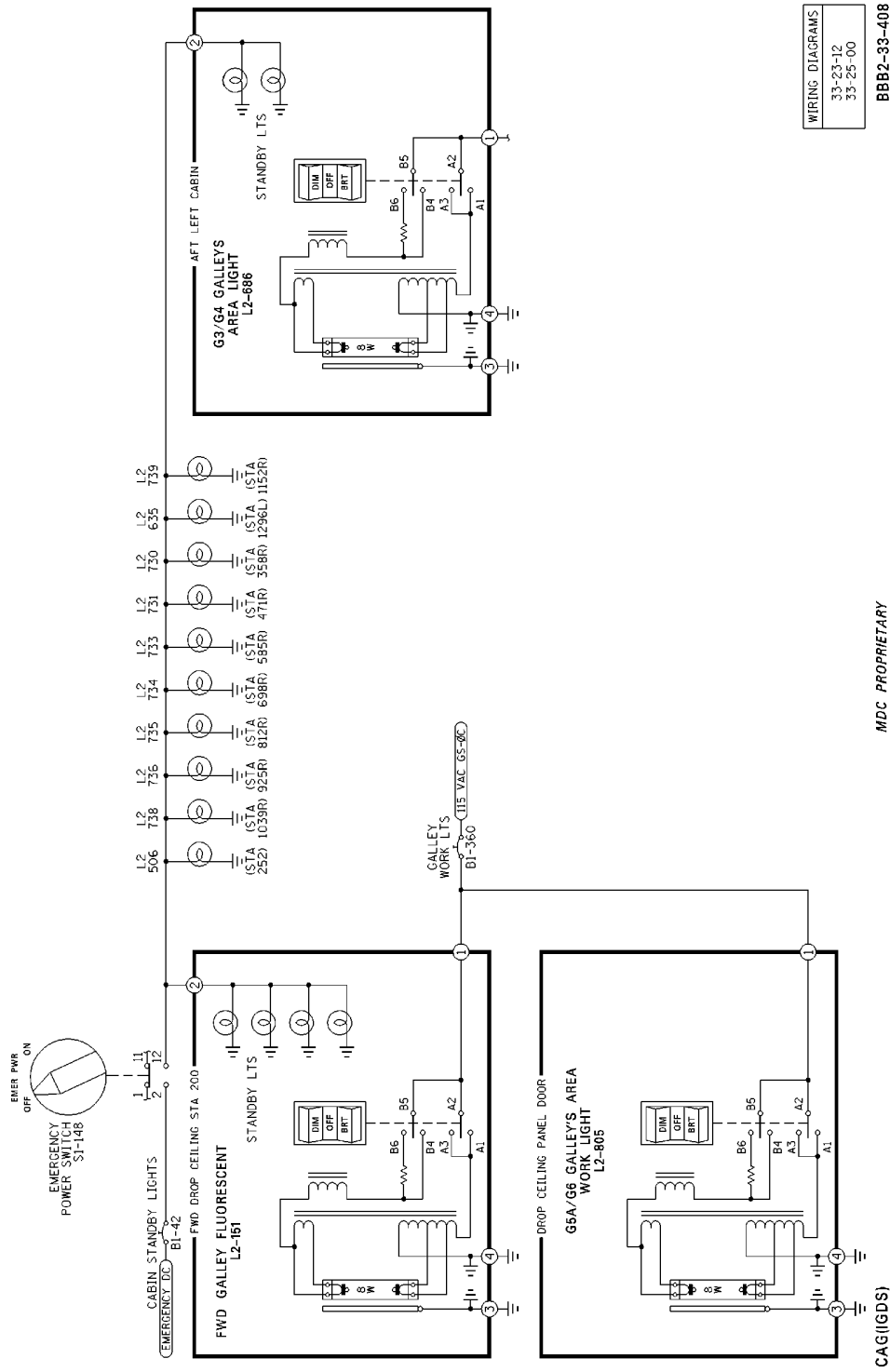


Forward Aisle and Attendant's Lights - Schematic  
Figure 5/33-21-00-990-809 (Sheet 3 of 3)

EFFECTIVITY  
WJE 415-427, 429, 861-866, 868, 869, 871, 872, 891

33-21-00

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WIRING DIAGRAMS  
33-23-12  
33-25-00

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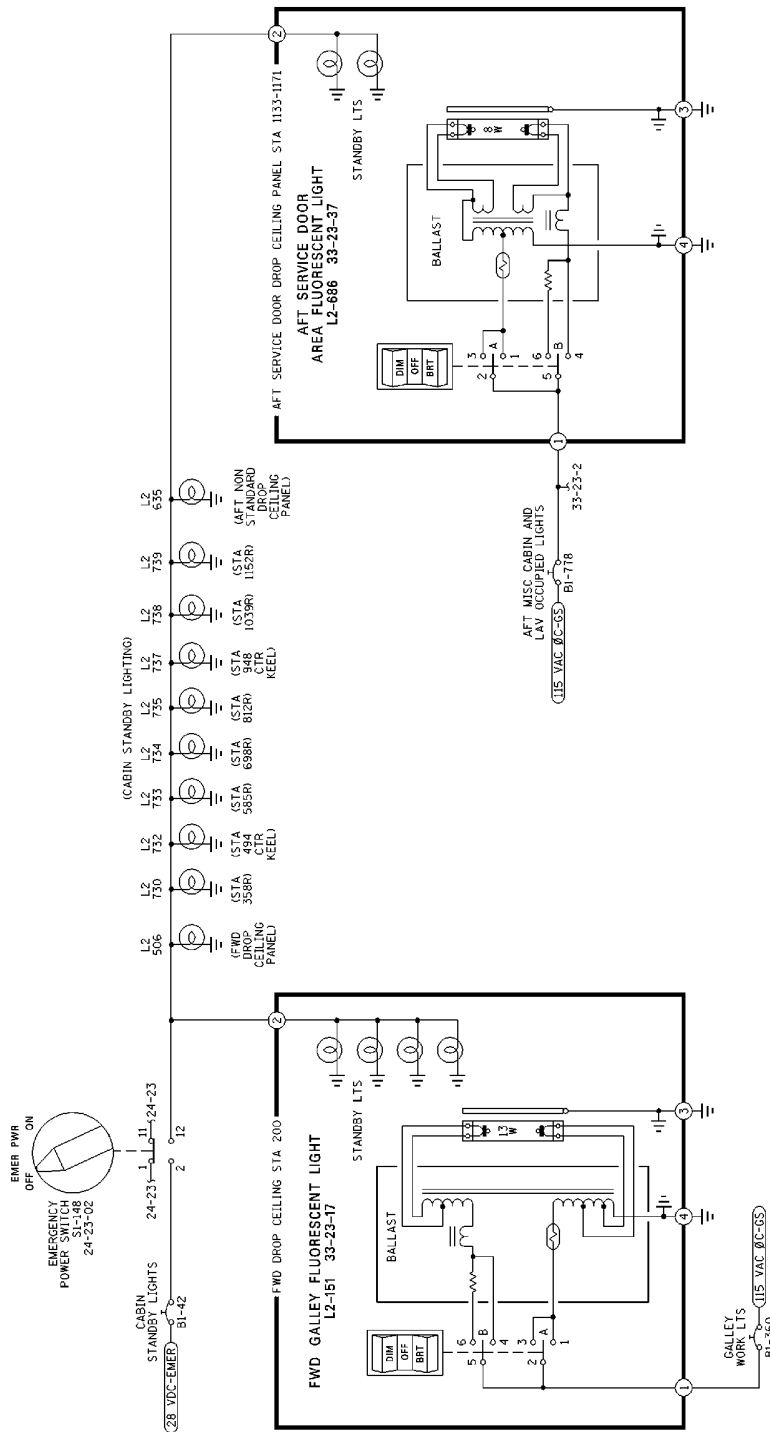
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**Galley Lighting**  
Figure 6/33-21-00-990-810 (Sheet 1 of 2)

EFFECTIVITY  
WJE 886, 887

**33-21-00**

# MD-80 AIRCRAFT MAINTENANCE MANUAL



WIRING DIAGRAMS	
33-23-12	
33-25-100	
33-51-02	

BBB2-33-519

**Galley Lighting**  
Figure 6/33-21-00-990-810 (Sheet 2 of 2)

CAG(I)GDS)

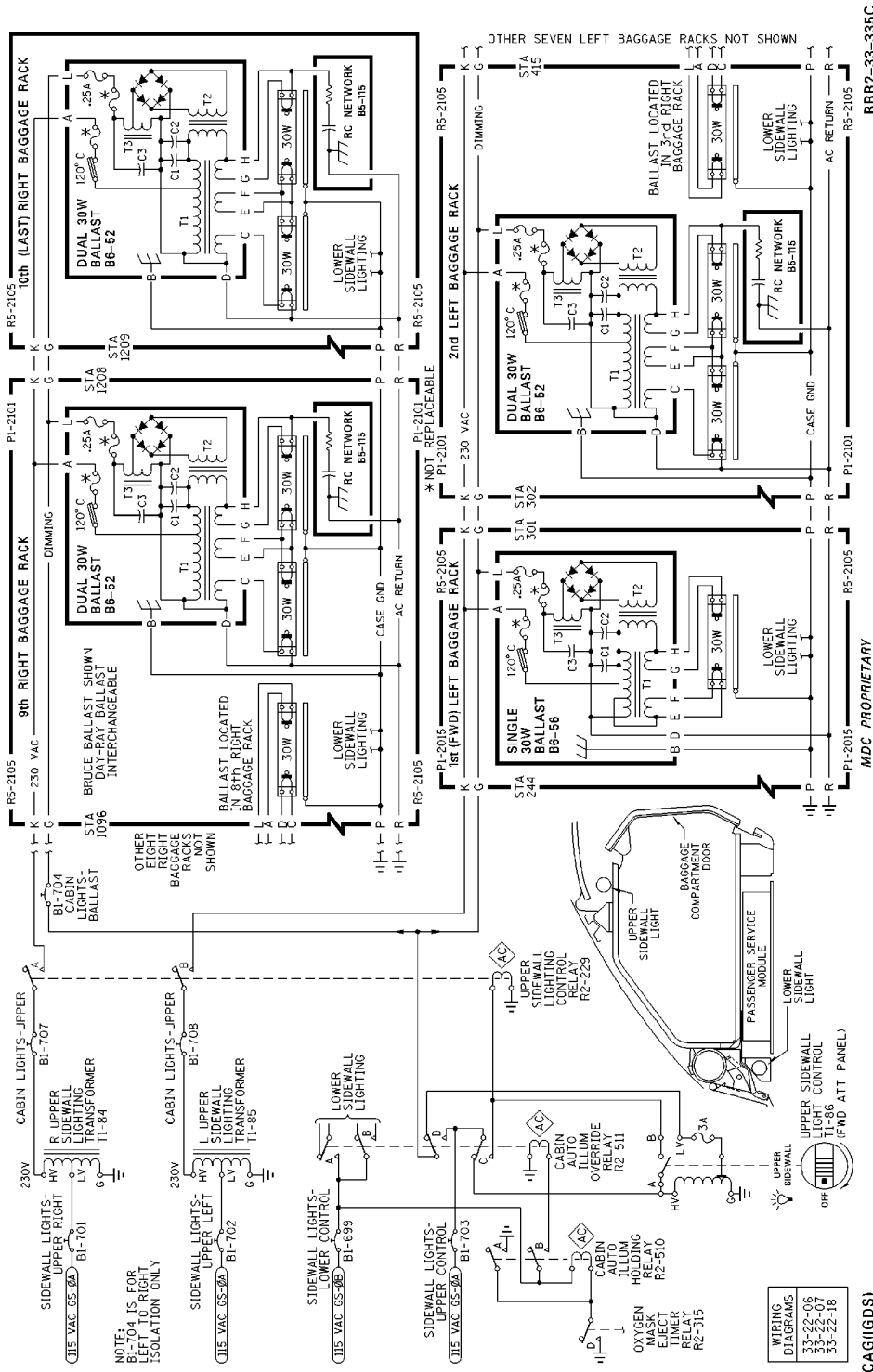
EFFECTIVITY  
WJE 875, 876

TP-80MM-WJE

**33-21-00**

Page 17  
Feb 01/2016

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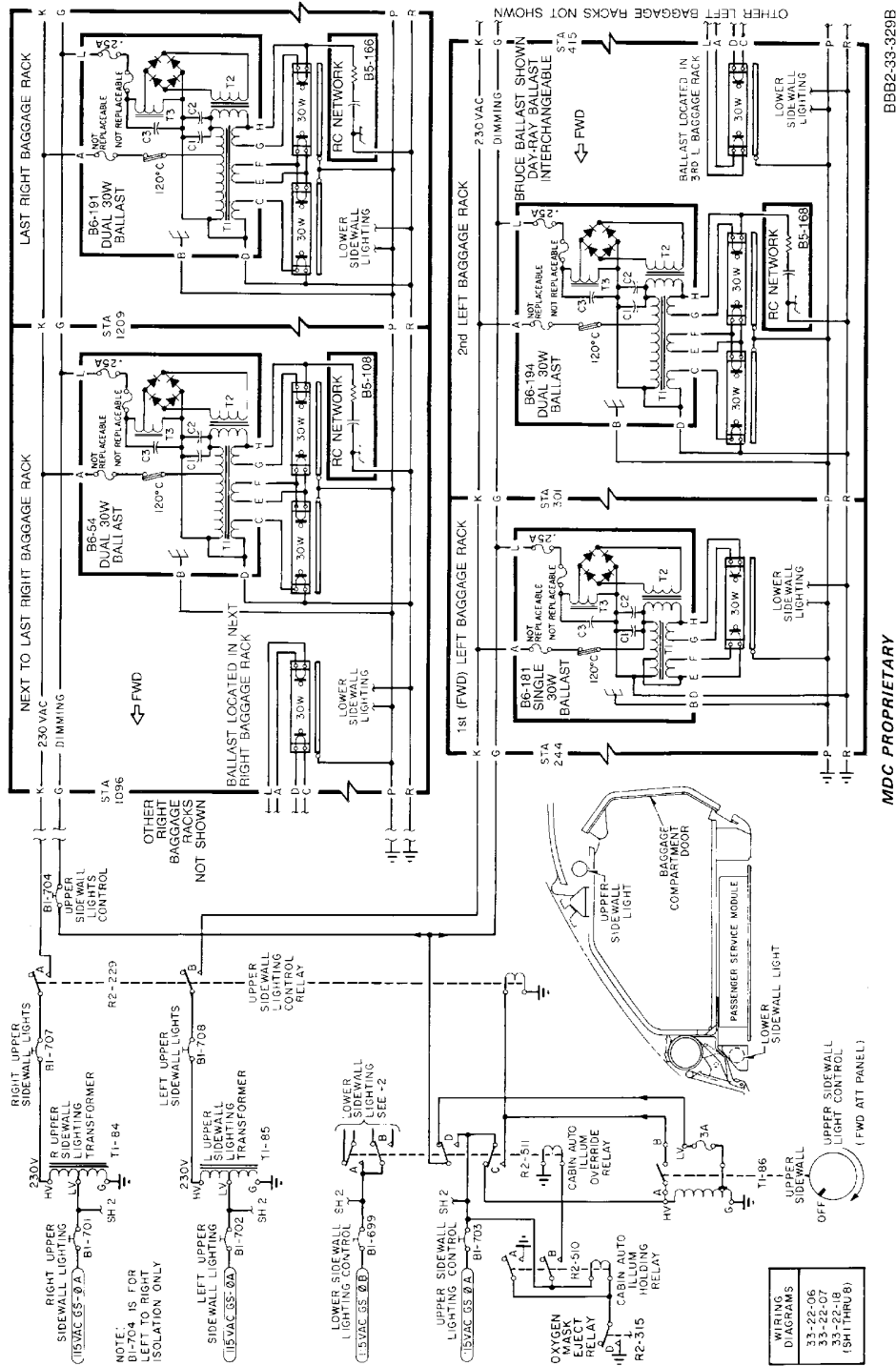


**Cabin Upper Sidewall Lighting - Schematic**  
Figure 7/33-21-00-990-811 (Sheet 1 of 5)

EFFECTIVITY  
WJE 405, 406, 409, 410, 881, 883, 884

**33-21-00**

# MD-80 AIRCRAFT MAINTENANCE MANUAL



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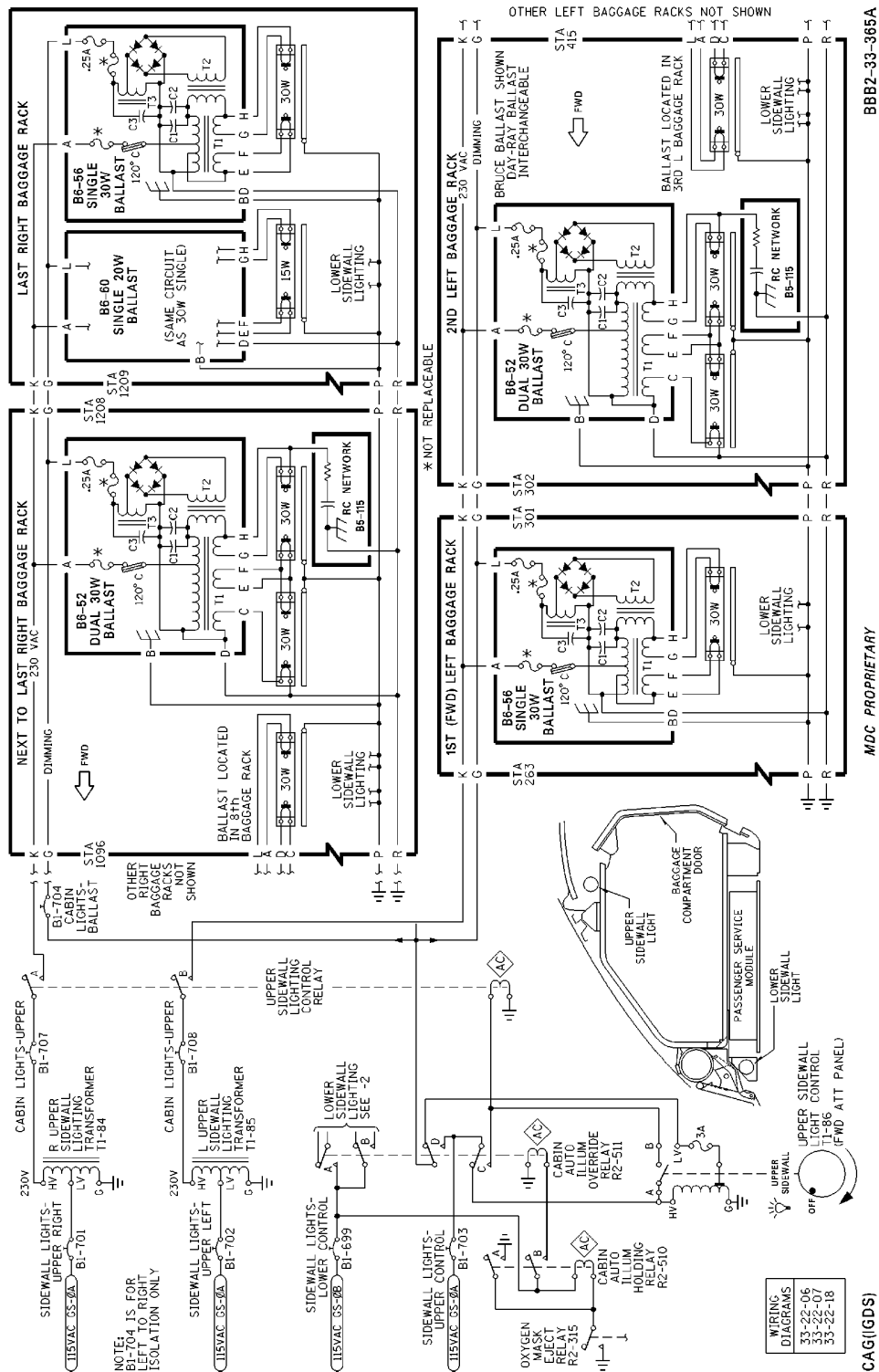
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Cabin Upper Sidewall Lighting - Schematic  
Figure 7/33-21-00-990-811 (Sheet 2 of 5)

EFFECTIVITY  
WJE 407, 408, 411, 873, 874, 880, 886, 887, 892, 893

33-21-00

MD-80  
AIRCRAFT MAINTENANCE MANUAL



Cabin Upper Sidewall Lighting - Schematic  
Figure 7/33-21-00-990-811 (Sheet 3 of 5)

EFFECTIVITY  
WJE 401-404, 412, 414

TP-80MM-WJE

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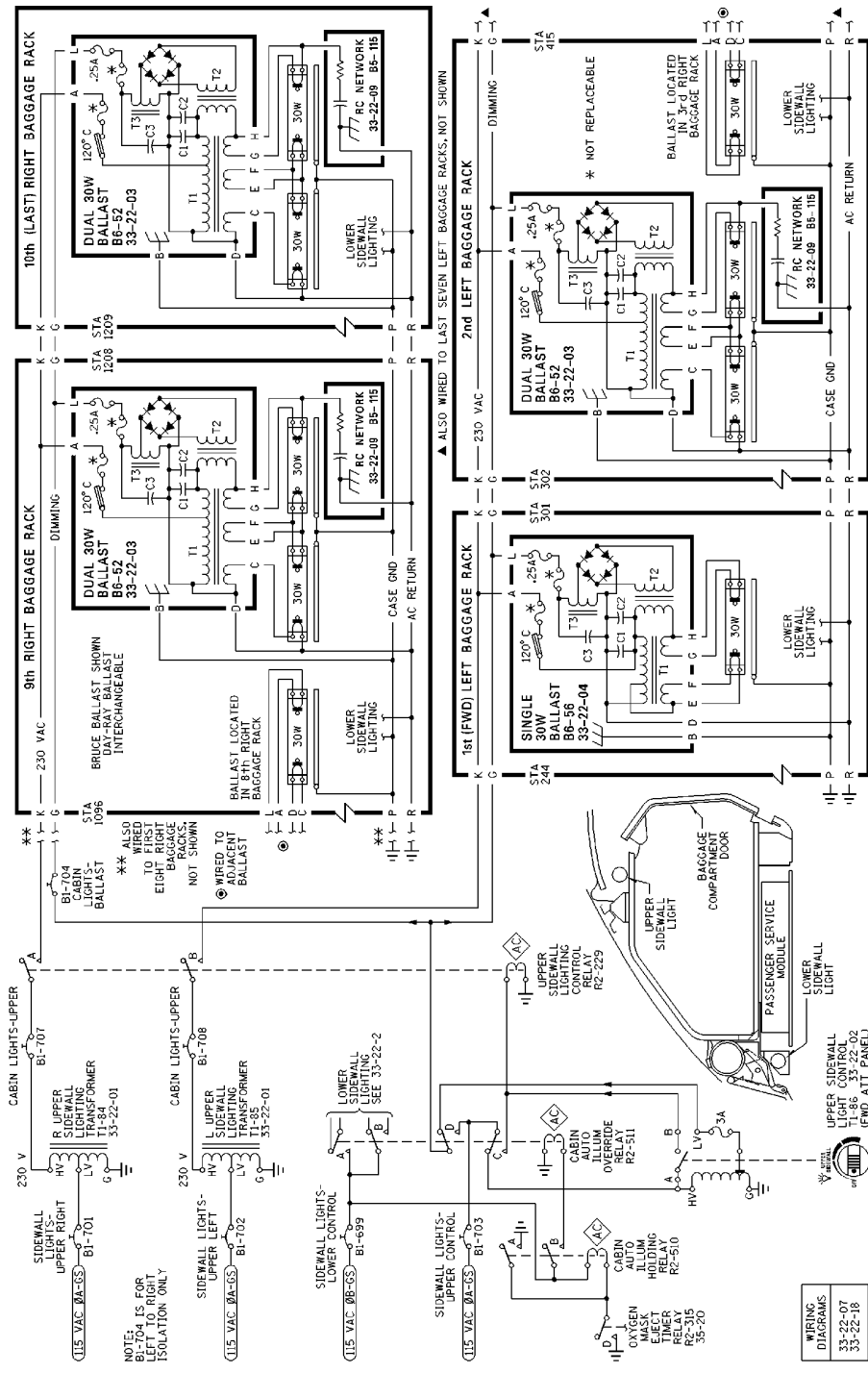
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Page 20  
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Cabin Upper Sidewall Lighting - Schematic  
Figure 7/33-21-00-990-811 (Sheet 4 of 5)

EFFECTIVITY  
WJE 875-879

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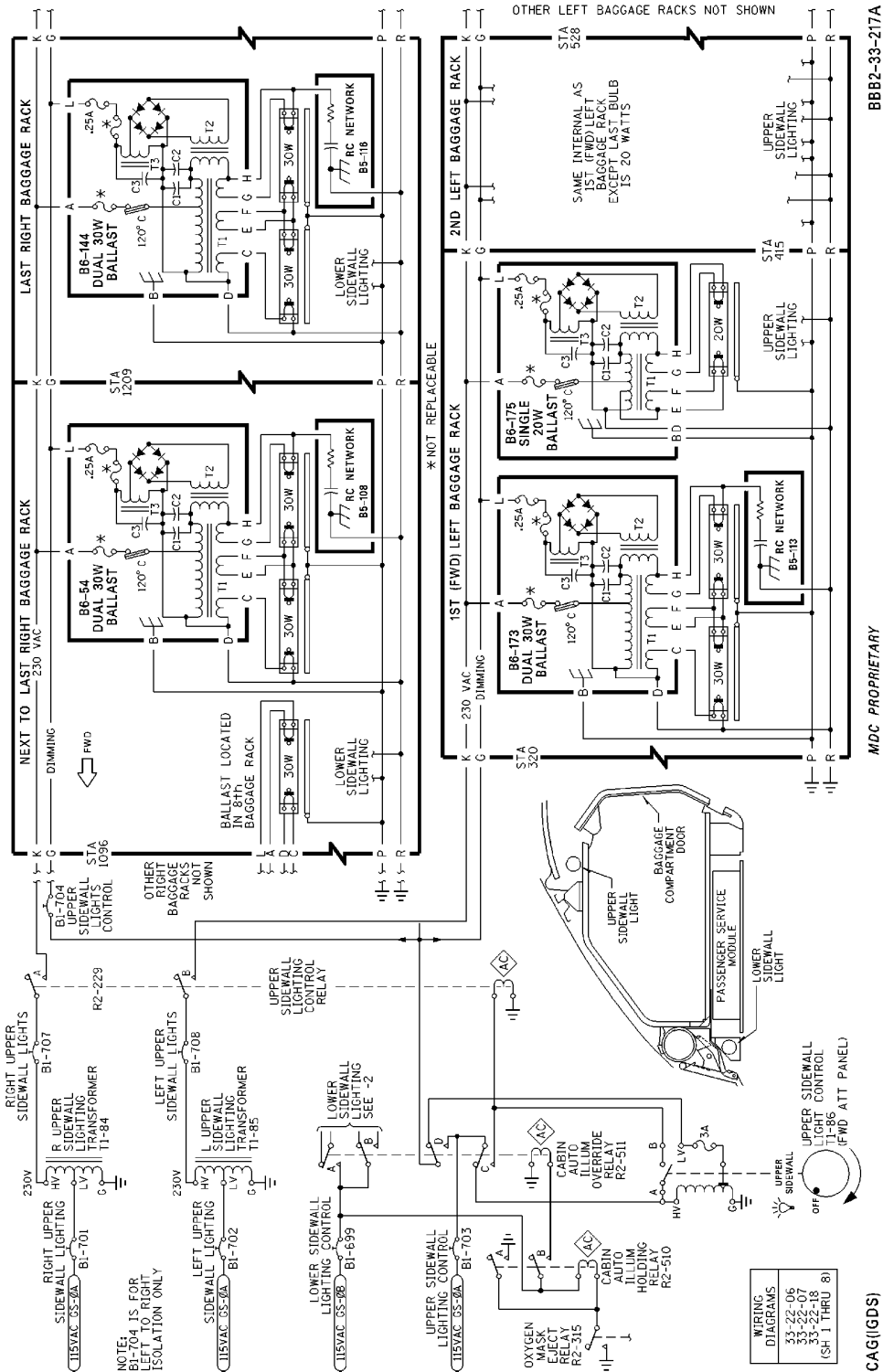
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Page 21  
Feb 01/2016

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Cabin Upper Sidewall Lighting - Schematic  
Figure 7/33-21-00-990-811 (Sheet 5 of 5)

EFFECTIVITY  
WJE 415-427, 429, 861-866, 868, 869, 871, 872, 891

TP-80MM-WJE

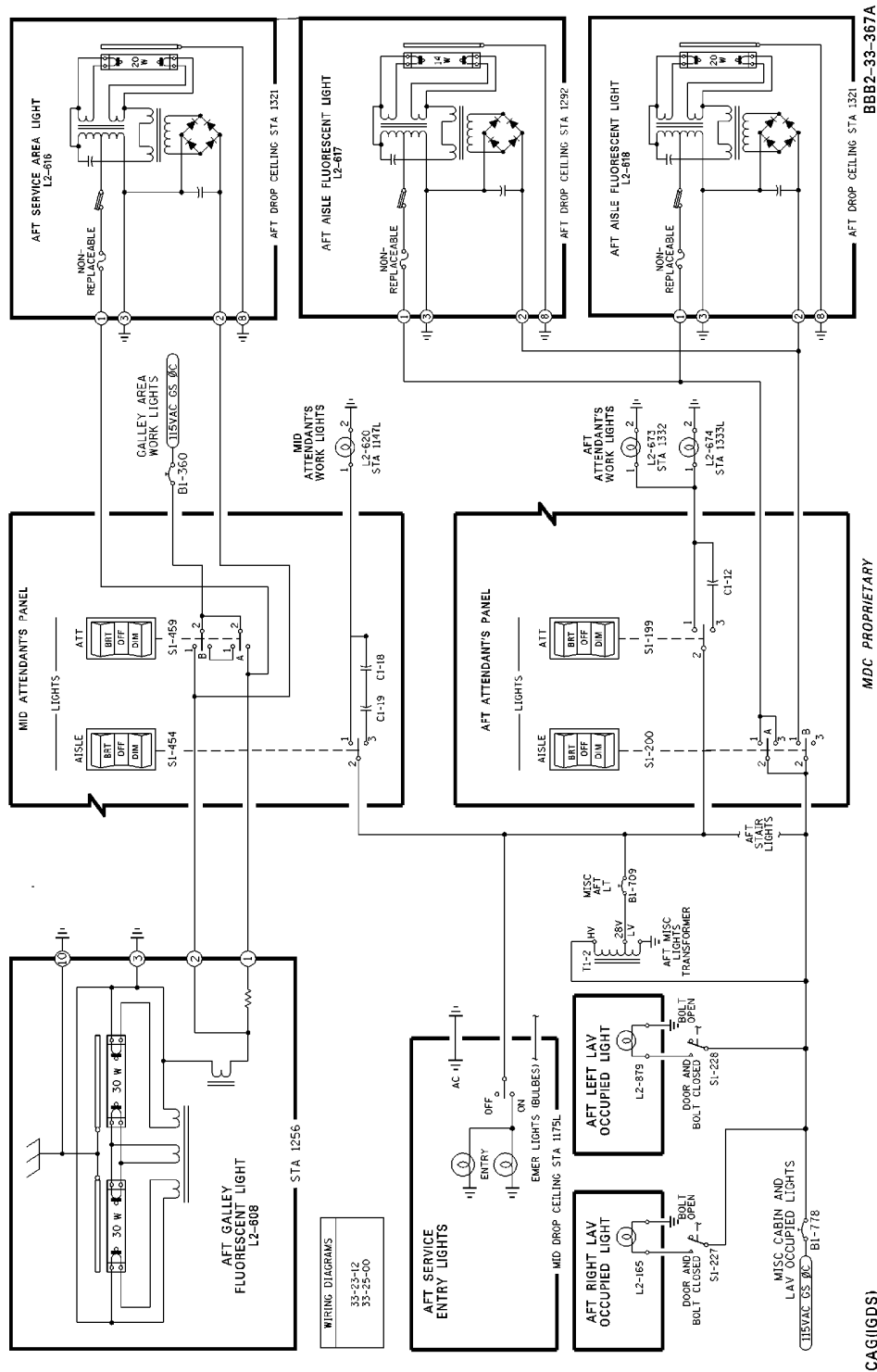
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Page 22  
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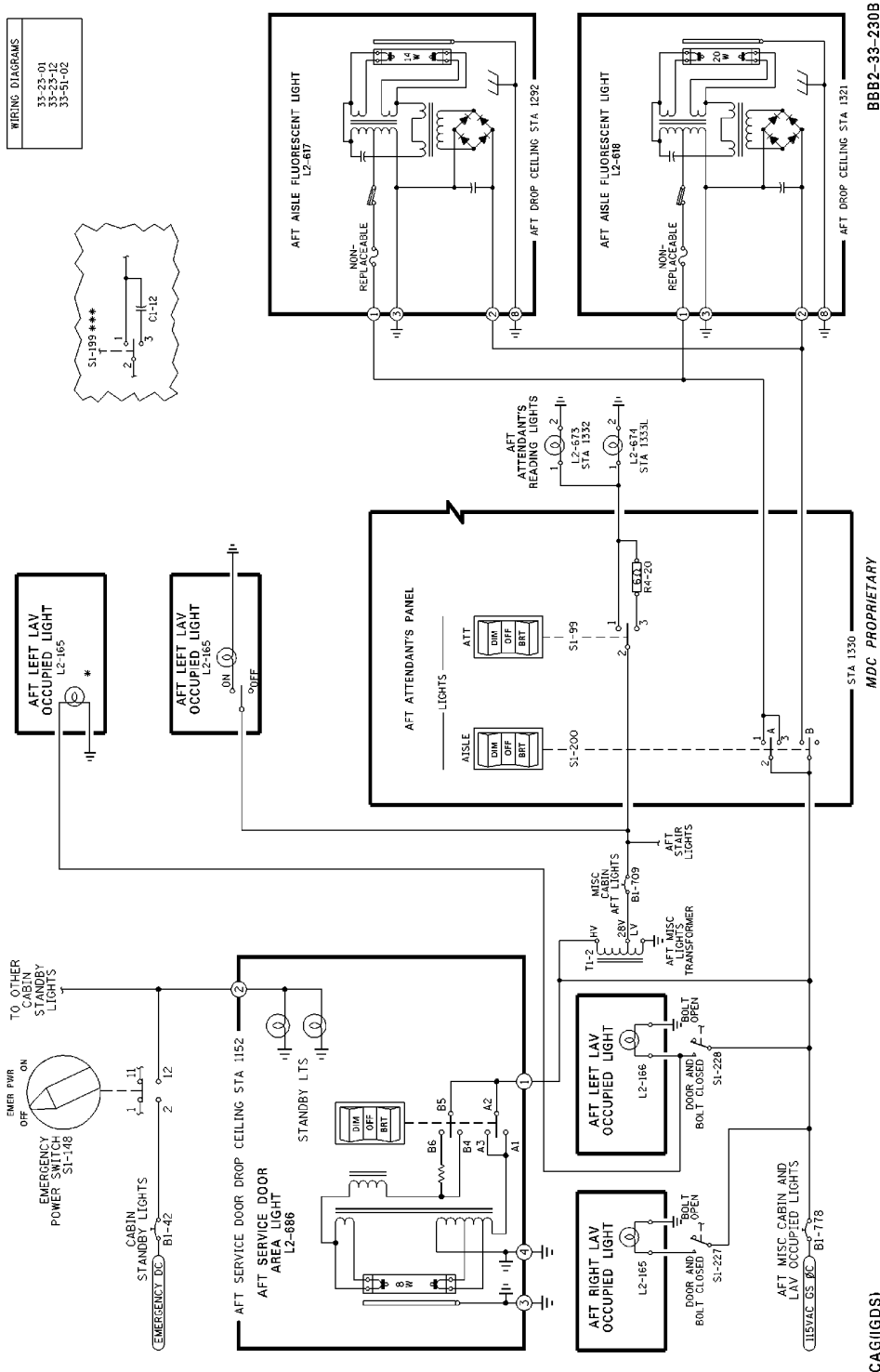
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**Mid & Aft Aisle, Attendant & Aft Lav Occupied Lights - Schematic  
Figure 8/33-21-00-990-812**

EFFECTIVITY  
WJE 401-404, 412, 414

**33-21-00**

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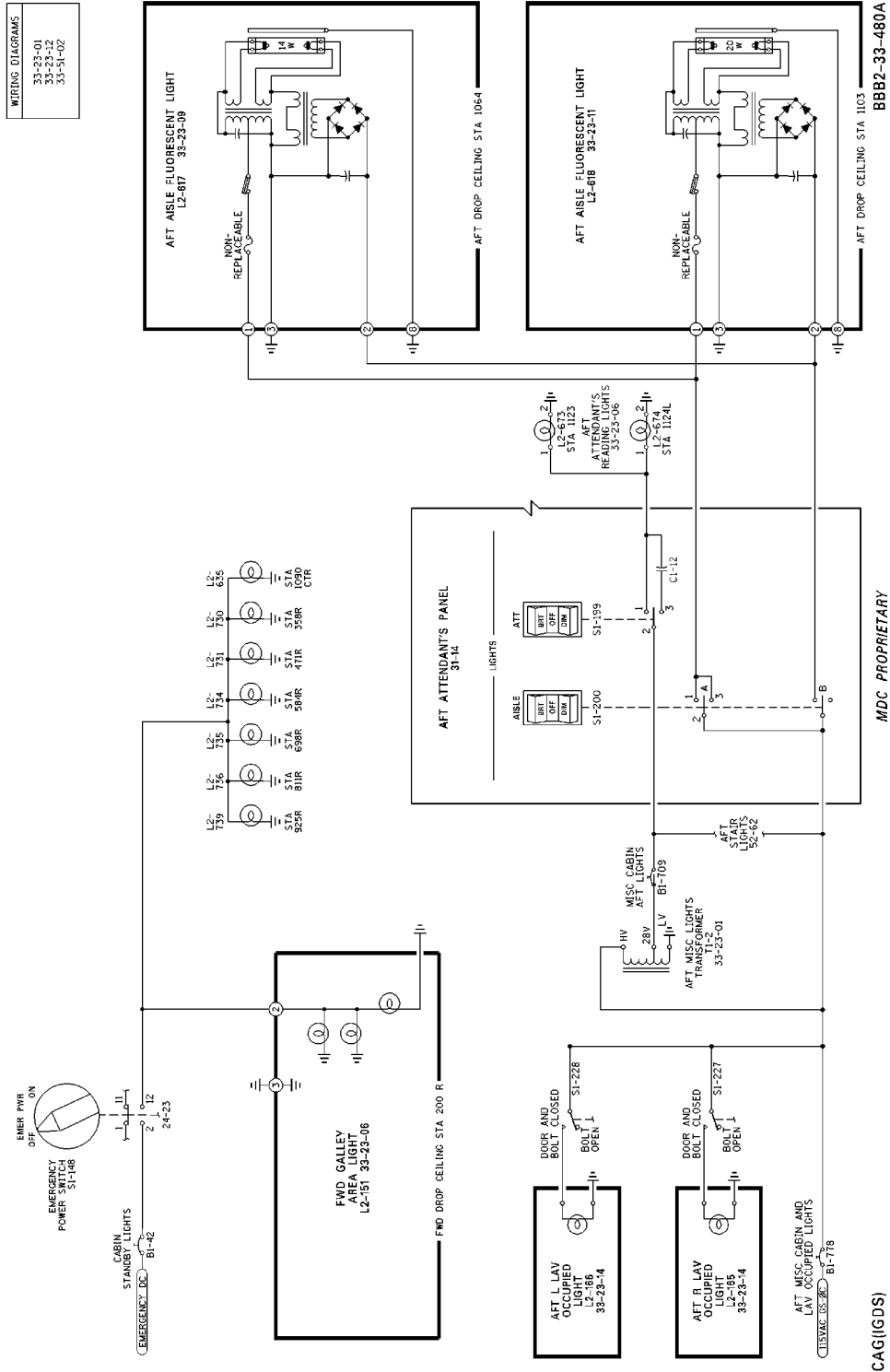


Mid & Aft Aisle, Attendant & Standby Lights - Schematic  
Figure 9/33-21-00-990-821

EFFECTIVITY  
WJE 873-879, 892, 893

33-21-00

# MD-80 AIRCRAFT MAINTENANCE MANUAL



Mid & Aft Aisle, Attendant & Standby Lights - Schematic  
Figure 10/33-21-00-990-826

EFFECTIVITY  
WJE 407, 408, 411

TP-80MM-WJE

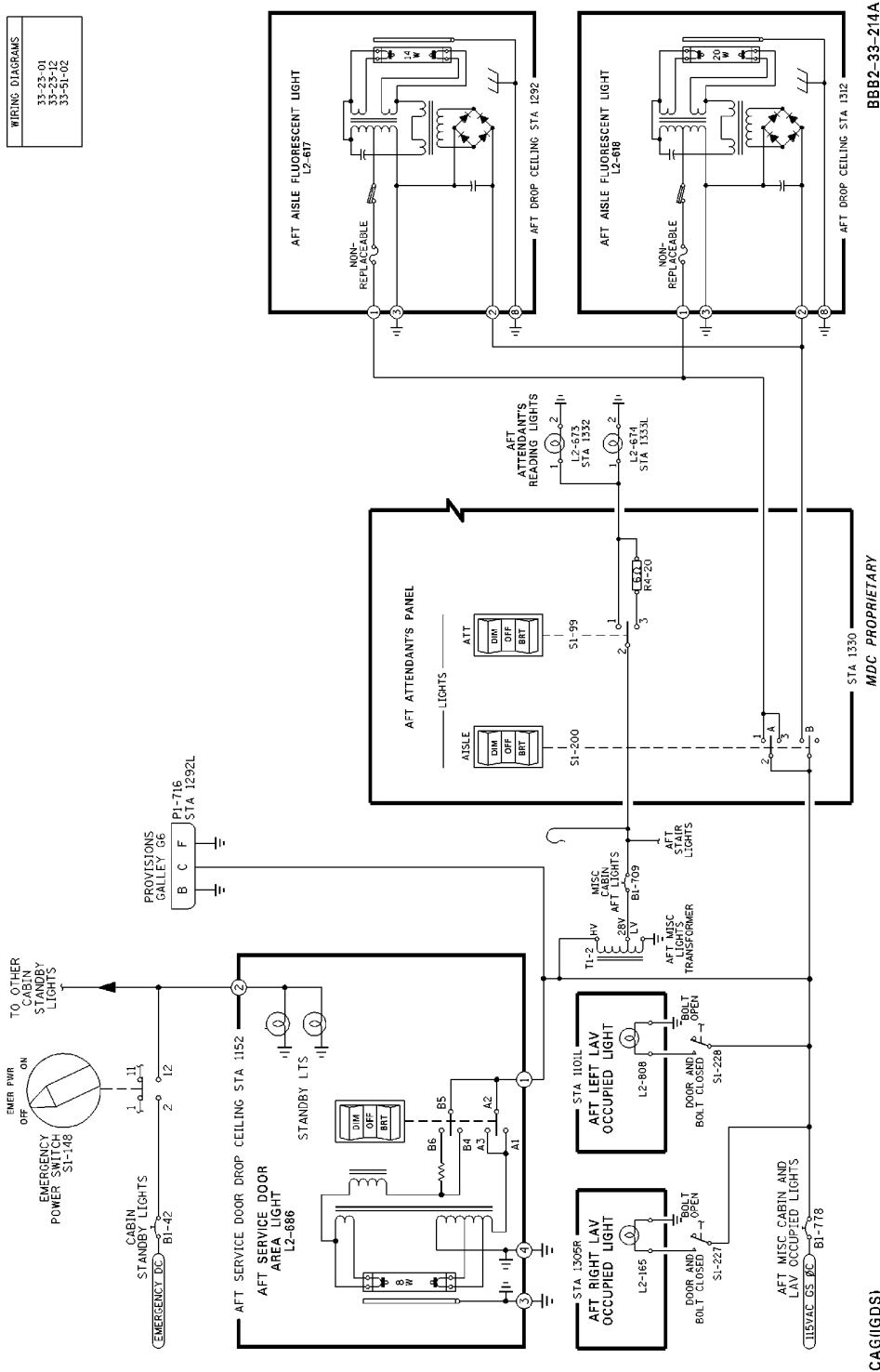
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WIRING DIAGRAMS	
33-23-01	
33-23-12	
33-51-02	



BBB2-33-214A

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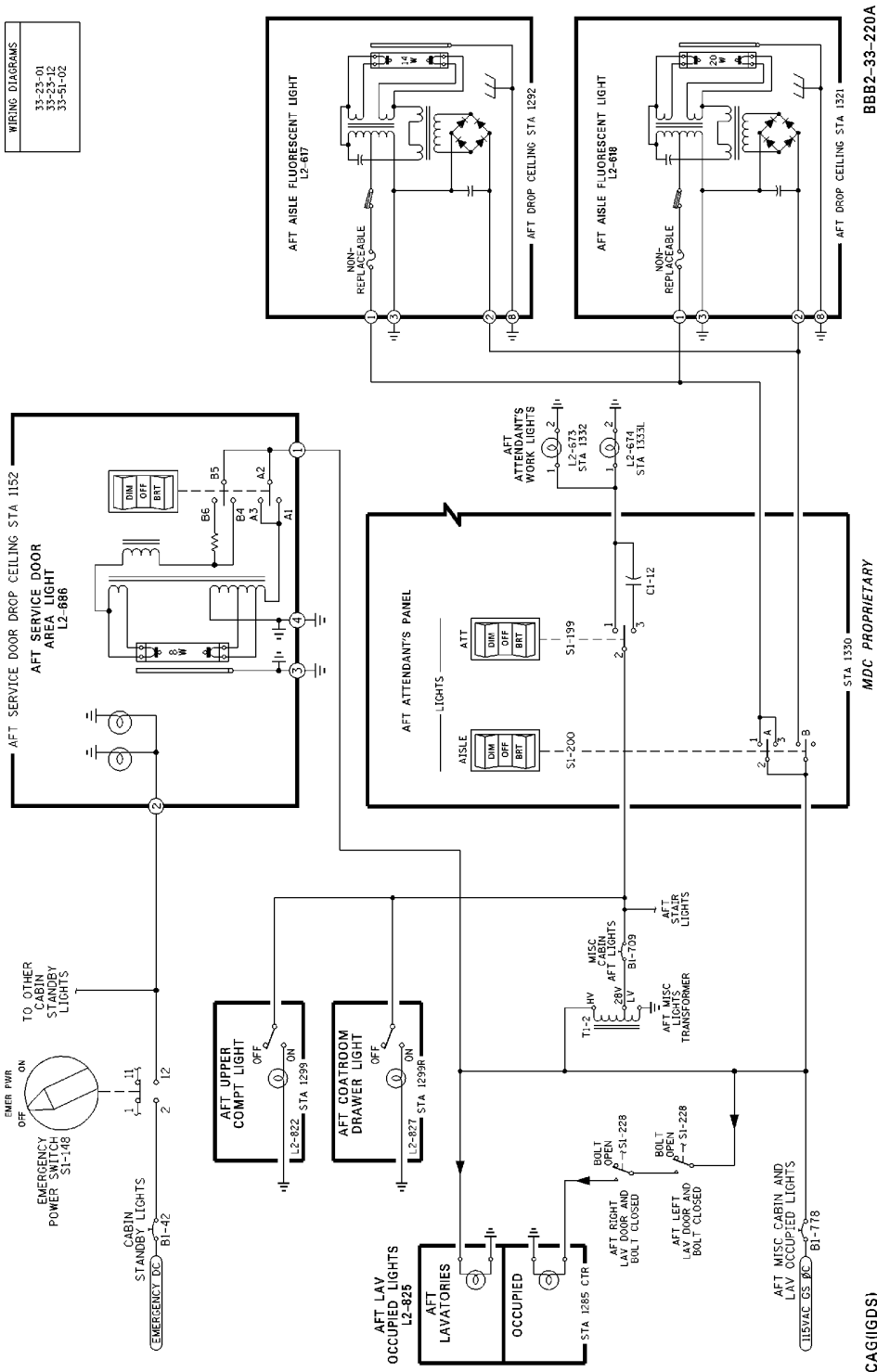
CAG(IIGDS)

Mid & Aft Aisle, Attendant & Standby Lights - Schematic  
Figure 11/33-21-00-990-827

EFFECTIVITY  
WJE 405-411, 880, 881, 883, 884

33-21-00

## MD-80 AIRCRAFT MAINTENANCE MANUAL



BBB2-33-220A

MDC PROPRIETARY

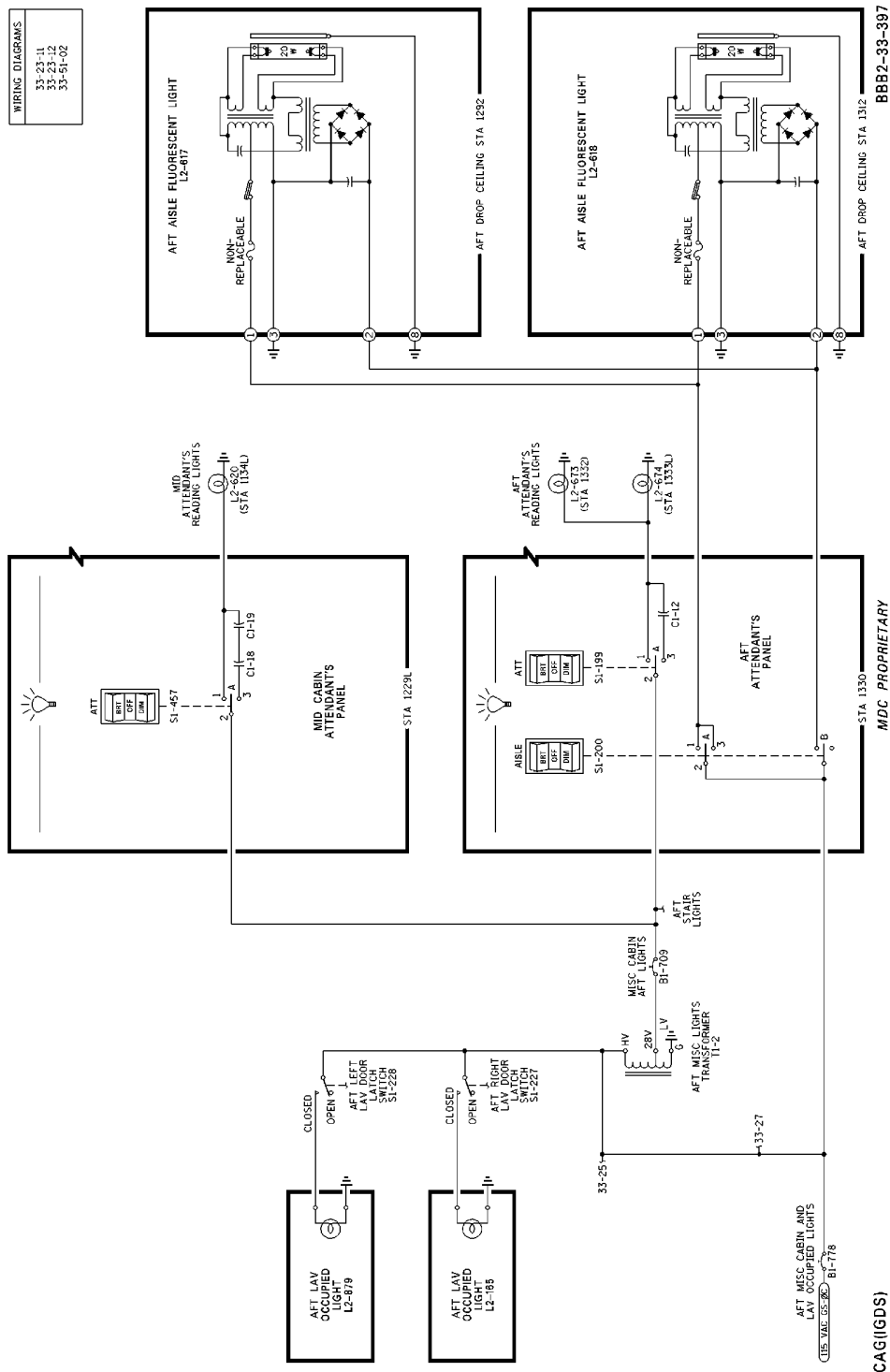
CAG(IIGDS)

**Mid & Aft Aisle, Attendant & Standby Lights - Schematic  
Figure 12/33-21-00-990-828**

EFFECTIVITY  
WJE 415-427, 429, 861-866, 868, 869, 871, 872, 891

# 33-21-00

# MD-80 AIRCRAFT MAINTENANCE MANUAL



Mid & Aft Aisle, Attendant & Standby Lights - Schematic  
Figure 13/33-21-00-990-832

EFFECTIVITY  
WJE 886, 887

33-21-00



## MD-80 AIRCRAFT MAINTENANCE MANUAL

### CABIN SIDEWALL LIGHTS - MAINTENANCE PRACTICES

#### 1. General

- A. The following procedures provide instructions for lamping the upper and lower sidewall light fixtures with fluorescent lamps.
- B. The use of properly identified recommended lamps is essential for satisfactory operation and to prevent damage to circuit components.
- C. Replace fluorescent lamps when they start to exhibit signs of failure, such as reduced light output, flickering, rectification, and lamp end blackening.

#### 2. Removal/Installation Cabin Sidewall Fluorescent Lamps

- A. Remove Lamp

**WJE 401-404, 406-408, 411, 412, 414, 415, 417-419, 421, 423, 863-866, 869, 871, 872, 881, 883, 886, 887, 892, 893**

(Lever Type Lamp Holder)

**WJE 405, 409, 410, 416, 420, 422, 424-427, 429, 861, 862, 868, 873, 874, 880, 884, 891**

(Pushbutton Type Lamp Holder)

**WJE ALL**

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Open and tag following circuit breakers applicable to light from which lamp is being removed:

#### **LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-699	SIDEWALL LIGHTS - LOWER CONTROL
		B1-698	SIDEWALL LIGHTS - LOWER LEFT
		B1-697	SIDEWALL LIGHTS - LOWER RIGHT
		B1-703	SIDEWALL LIGHTS - UPPER CONTROL
		B1-702	SIDEWALL LIGHTS - UPPER LEFT
		B1-701	SIDEWALL LIGHTS - UPPER RIGHT

- (2) Gain access to upper sidewall lights above overhead stow-age compartment.

**WJE 401-404, 406-408, 411, 412, 414, 415, 417-419, 421, 423, 863-866, 869, 871, 872, 881, 883, 886, 887, 892, 893**

- (3) On lower sidewall lights, release captive screws of lower sidewall light panel; pull outboard on panel to free spring clip from bracket.

**WJE ALL**

- (4) At end of lamp, depress lever on lamp holder inward.

**WJE 401-404, 406-408, 411, 412, 414, 415, 417-419, 421, 423, 863-866, 869, 871, 872, 881, 883, 886, 887, 892, 893**

**NOTE:** Each lever type lamp holder has a movable center tab that retains the lamp base bipins against spring contacts. When the lever is depressed inward, ejector moves lamp out of locked position.

**WJE ALL**

- (5) At one end of lamp, press pushbutton on lamp holder inward.

EFFECTIVITY  
WJE ALL

**33-21-03**

## MD-80 AIRCRAFT MAINTENANCE MANUAL

**WJE 405, 409, 410, 416, 420, 422, 424-427, 429, 861, 862, 868, 873, 874, 880, 884, 891**

**NOTE:** Each pushbutton type lamp holder has a movable center tab that retains the lamp base bipins against spring contacts. When the pushbutton is depressed inward, the bipins are removed from the lamp holder.

**WJE ALL**

**CAUTION:** DO NOT INDEX OR ROTATE LAMP. INDEXING OR ROTATING LAMP MAY CAUSE DAMAGE TO LAMP BIPINS, LAMP HOLDERS, OR BALLAST.

- (6) Without indexing or rotating lamp, lift lamp base bipins straight out of detents.
- (7) Remove lamp.

B. Install Lamp

**WJE 401-404, 406-408, 411, 412, 414, 415, 417-419, 421, 423, 863-866, 869, 871, 872, 881, 883, 886, 887, 892, 893**

(Lever Type Lamp Holder)

**WJE 405, 409, 410, 416, 420, 422, 424-427, 429, 861, 862, 868, 873, 874, 880, 884, 891**

(Pushbutton Type Lamp Holder)

**WJE ALL**

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Make sure that these circuit breakers are open and have safety tags:

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-699	SIDEWALL LIGHTS - LOWER CONTROL
		B1-698	SIDEWALL LIGHTS - LOWER LEFT
		B1-697	SIDEWALL LIGHTS - LOWER RIGHT
		B1-703	SIDEWALL LIGHTS - UPPER CONTROL
		B1-702	SIDEWALL LIGHTS - UPPER LEFT
		B1-701	SIDEWALL LIGHTS - UPPER RIGHT

**CAUTION:** DO NOT INDEX OR ROTATE LAMP. INDEXING OR ROTATING LAMP MAY CAUSE DAMAGE TO LAMP BIPINS, LAMP HOLDERS, OR BALLAST.

**CAUTION:** VERIFY LAMP IDENTIFICATION WHEN RELAMPING. USE ONLY RECOMMENDED LAMPS TO PREVENT DAMAGE TO LAMP HOLDERS AND LIGHT CIRCUIT COMPONENTS.

- (2) Without indexing or rotating lamp, press lamp base bi-pins, at each end of lamp, into lamp holders until bi-pins are secure in contact detents. Make sure fluorescent lamp bi-pins are properly installed in the lamp holder contacts and are in the locked position when installing lamps.

**WJE 401-404, 406-408, 411, 412, 414, 415, 417-419, 421, 423, 863-866, 869, 871, 872, 881, 883, 886, 887, 892, 893**

- (3) Pull lever forward to locked position.

**NOTE:** Lamp will not be secured if lever is not in locked position.

EFFECTIVITY
WJE ALL

**33-21-03**

TP-80MM-WJE

Page 202  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

**WJE ALL**

- (4) On lower sidewall lights, push lower sidewall light panel inboard until retained by spring clips and then secure with captive screws.
- (5) Remove the safety tags and close these circuit breakers:

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-699	SIDEWALL LIGHTS - LOWER CONTROL
		B1-698	SIDEWALL LIGHTS - LOWER LEFT
		B1-697	SIDEWALL LIGHTS - LOWER RIGHT
		B1-703	SIDEWALL LIGHTS - UPPER CONTROL
		B1-702	SIDEWALL LIGHTS - UPPER LEFT
		B1-701	SIDEWALL LIGHTS - UPPER RIGHT

- (6) Rotate applicable sidewall light control on forward attend-ant's panel clockwise, lights should come on.
  - (7) Rotate applicable sidewall light control to maximum clock-wise position, lights should brighten.
  - (8) Rotate applicable sidewall light control to OFF position, lights should go off
- C. Install Lamp Holders

**CAUTION:** WHEN INSTALLING TWO LAMP HOLDERS BACK TO BACK, THREADED INSERTS MUST BE REMOVED FROM ONE OF TWO LAMP HOLDERS. THIS ACTION ENSURES THAT MOUNTING SCREWS WILL COUNTERSINK INTO LAMP HOLDER BASE AND PREVENT INTERFERENCE WITH FLUORESCENT LAMPS.

- (1) Remove threaded inserts from one of two lampholders as follows:
  - (a) Install (2) 1 inch 4-40 screws completely into inserts from back side of one lampholder.
  - (b) Place lampholder on flat surface, and tap head of screw with soft mallet; push inserts out of lampholder. Remove inserts from screws and remove screws from lampholder.
  - (c) Install lampholders back to back on bracket; make certain that screws do not extend beyond inserts ).

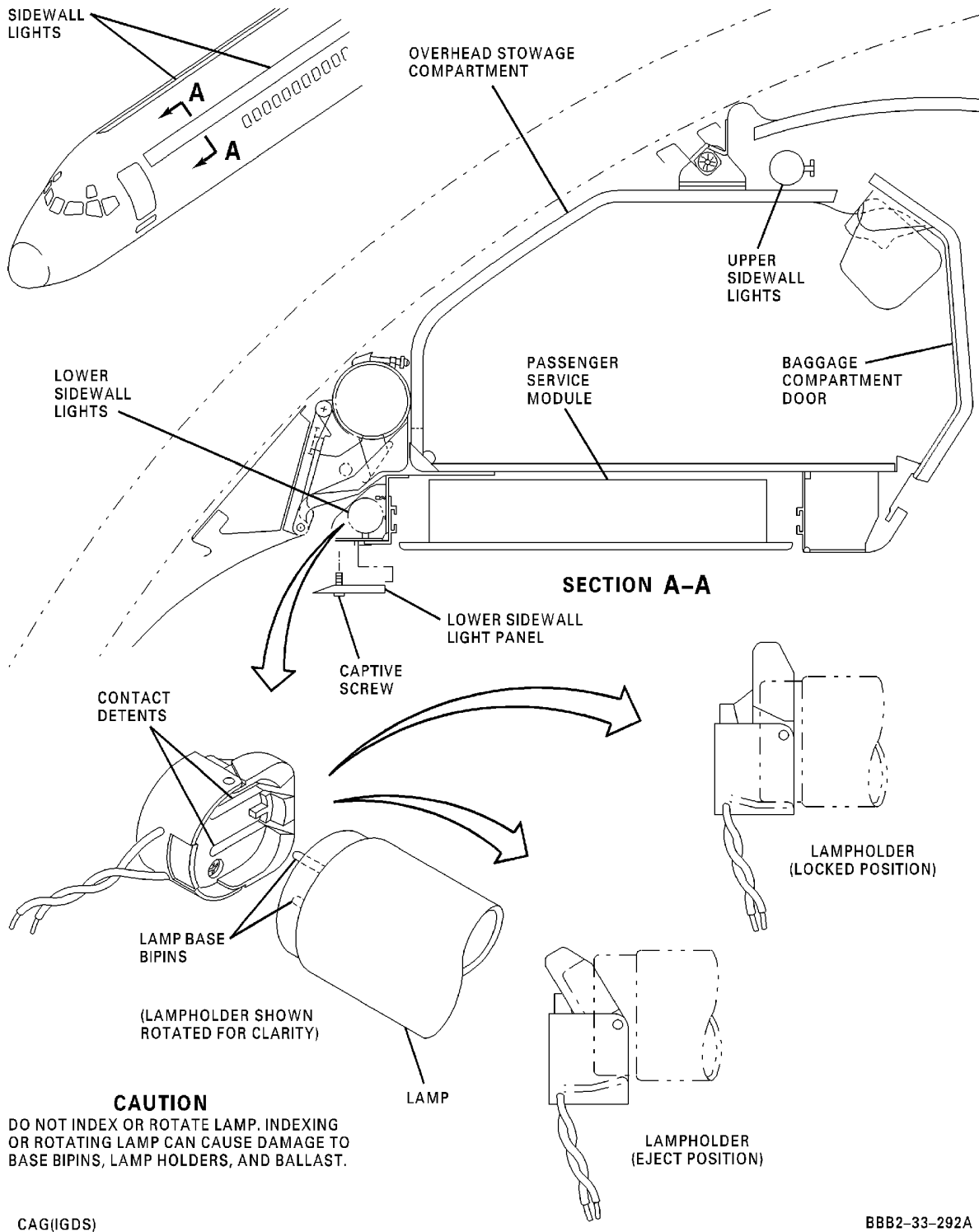
EFFECTIVITY  
WJE ALL

**33-21-03**

TP-80MM-WJE

Page 203  
Feb 01/2015

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



CAG(IGDS)

BBB2-33-292A

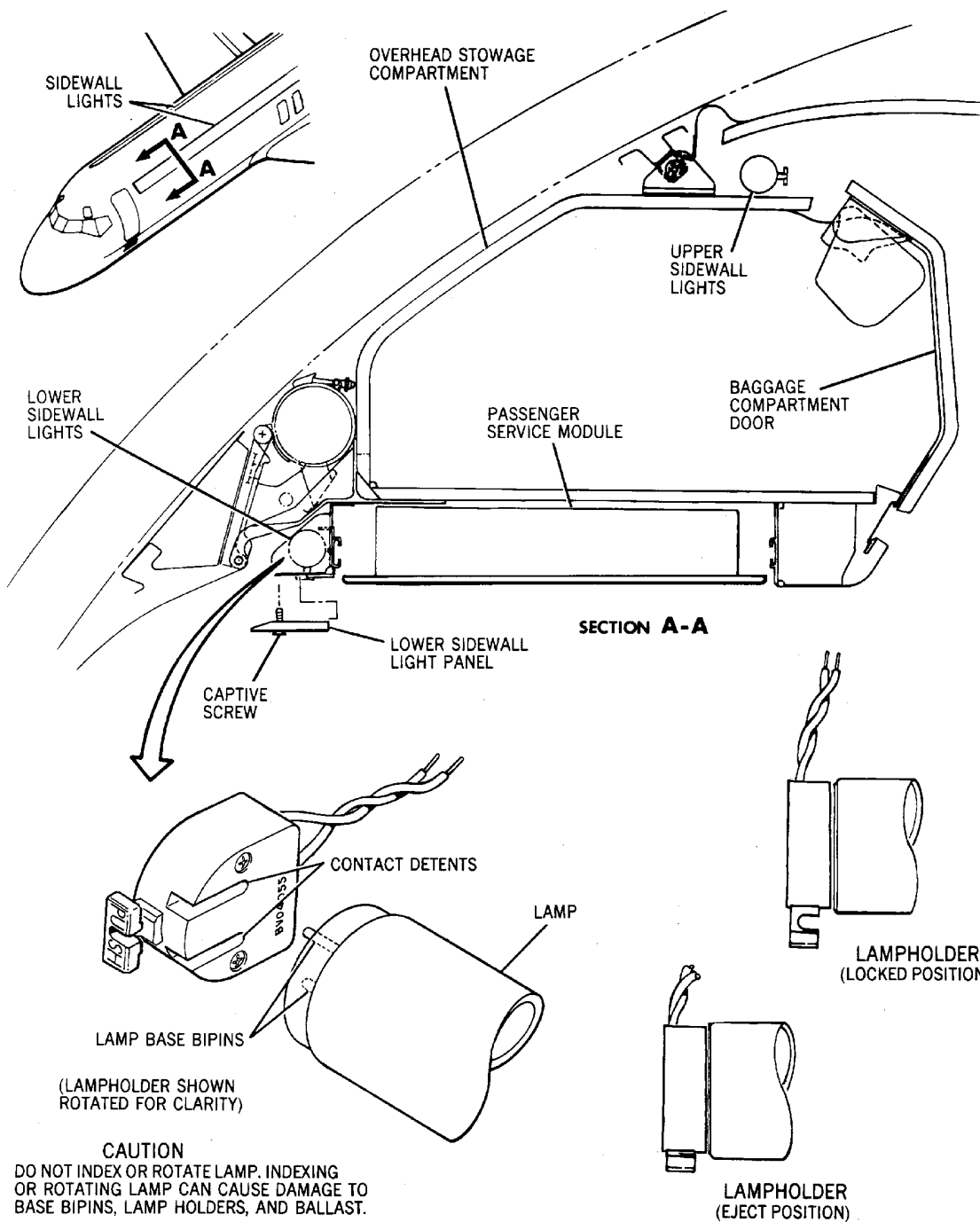
**Cabin Sidewall Lights -- Removal/Installation  
Figure 201/33-21-03-990-811**

EFFECTIVITY
WJE 401-404, 406-408, 411, 412, 414, 415, 417-419, 421, 423, 863-866, 869, 871, 872, 881, 883, 886, 887, 892, 893

TP-80MM-WJE

**33-21-03**

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



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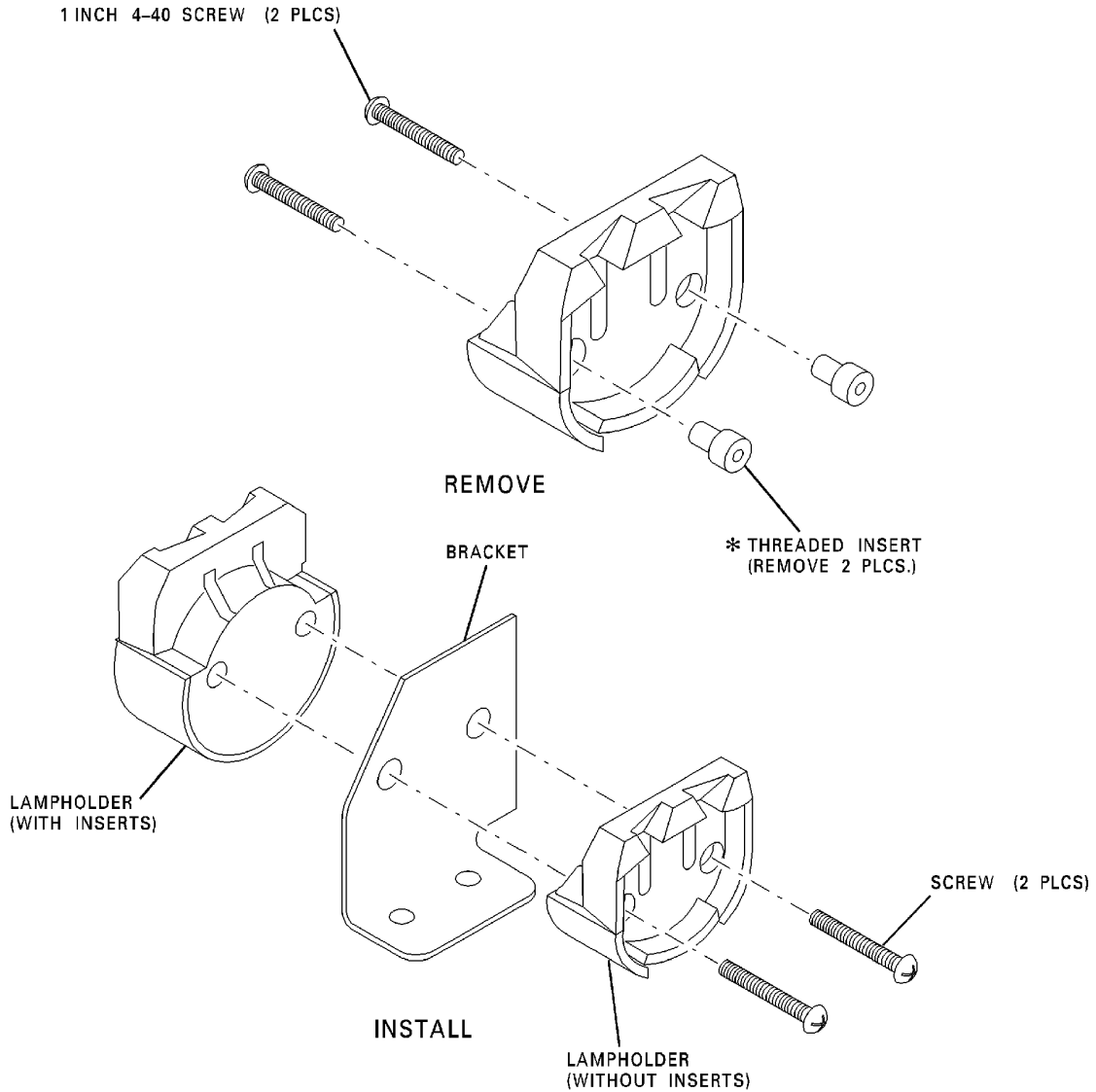
**Cabin Sidewall Lights -- Removal/Installation  
Figure 202/33-21-03-990-813**

EFFECTIVITY
WJE 405, 409, 410, 416, 420, 422, 424-427, 429, 861, 862, 868, 873, 874, 880, 884, 891

**33-21-03**

TP-80MM-WJE

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



**\* NOTE:**  
WHEN INSTALLING TWO LAMPHOLDERS  
BACK TO BACK, THE THREADED INSERTS  
MUST BE REMOVED FROM ONE OF THE TWO  
LAMPHOLDERS. THIS ACTION ENSURES  
THAT THE MOUNTING SCREWS WILL  
COUNTERSINK INTO THE LAMPHOLDER BASE  
AND PREVENT INTERFERENCE WITH THE  
FLUORESCENT LAMPS..

CAG(IGDS)

BBB2-33-457

**Cabin Sidewall Lights Lampholders -- Removal/Installation  
Figure 203/33-21-03-990-816**

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

**33-21-03**

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### 3. Removal/Installation Cabin Sidewall Lighting Ballast

#### A. Remove Ballast

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Open and tag following circuit breakers applicable to light from which ballast is being removed:

#### **LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-699	SIDEWALL LIGHTS - LOWER CONTROL
		B1-698	SIDEWALL LIGHTS - LOWER LEFT
		B1-697	SIDEWALL LIGHTS - LOWER RIGHT
		B1-703	SIDEWALL LIGHTS - UPPER CONTROL
		B1-702	SIDEWALL LIGHTS - UPPER LEFT
		B1-701	SIDEWALL LIGHTS - UPPER RIGHT

- (2) Gain access to ballast through overhead stowage compartment door. Release captive screws of sidewall ballast panel and swing down gently.
- (3) Disconnect electrical connector at ballast.
- (4) Remove mounting screws and remove ballast.

#### B. Install Ballast

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Make certain following circuit breakers applicable to light from which ballast is being removed, are open and tagged:

#### **LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-699	SIDEWALL LIGHTS - LOWER CONTROL
		B1-698	SIDEWALL LIGHTS - LOWER LEFT
		B1-697	SIDEWALL LIGHTS - LOWER RIGHT
		B1-703	SIDEWALL LIGHTS - UPPER CONTROL
		B1-702	SIDEWALL LIGHTS - UPPER LEFT
		B1-701	SIDEWALL LIGHTS - UPPER RIGHT

- (2) Install ballast as follows:

**NOTE:** The universal ballast P/N 03980 is able to drive either a single or dual lamp configuration. If the aircraft has not had the proper wiring harness installed, it will be necessary to install the 24 inch wire harness that is supplied with the ballast.

- (a) For installation of Universal ballast, Bruce Industries P/N 03980, install mounting brackets and install ballast.

**NOTE:** Universal ballast P/N 03980 is supplied with 2 mounting brackets.

- (b) Connect 24 inch wire harness electrical connector to aircraft wiring and to ballast.

**NOTE:** The Universal ballast P/N 03980 is supplied with a 24 inch wire harness which must be configured to a single or dual lamp system before installation.  
(Figure 204 or Figure 205)

- (c) For installation of Day-Ray ballast P/N 70-94, install ballast and cover.

EFFECTIVITY  
WJE ALL

# 33-21-03

TP-80MM-WJE

Page 207  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

WJE 878; WJE 401-412, 414-427, 429, 861-866, 868, 869, 871-877, 879-881, 883, 884, 886, 887, 891-893 POST MD80-33A107

NOTE: Ballast and cover must be installed on aircraft as an assembly (Figure 204 or Figure 205).

WJE 878; WJE 401-412, 414-427, 429, 861-866, 868, 869, 871-877, 879-881, 883, 884, 886, 887, 891-893 POST MD80-33A110

NOTE: All Day-Ray ballasts and covers have been removed and replaced with Bruce Industries ballast P/N 03980. Covers are not installed on the Bruce Industries ballast.

### WJE ALL

- (d) Connect electrical connector to ballast.
- (3) Remove the safety tags and close these circuit breakers:

#### LEFT CONSOLE, GROUND SERVICE BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-699	SIDEWALL LIGHTS - LOWER CONTROL
		B1-698	SIDEWALL LIGHTS - LOWER LEFT
		B1-697	SIDEWALL LIGHTS - LOWER RIGHT
		B1-703	SIDEWALL LIGHTS - UPPER CONTROL
		B1-702	SIDEWALL LIGHTS - UPPER LEFT
		B1-701	SIDEWALL LIGHTS - UPPER RIGHT

- (4) Perform functional test of sidewall light system to ensure all lamps are operative.

EFFECTIVITY  
WJE ALL

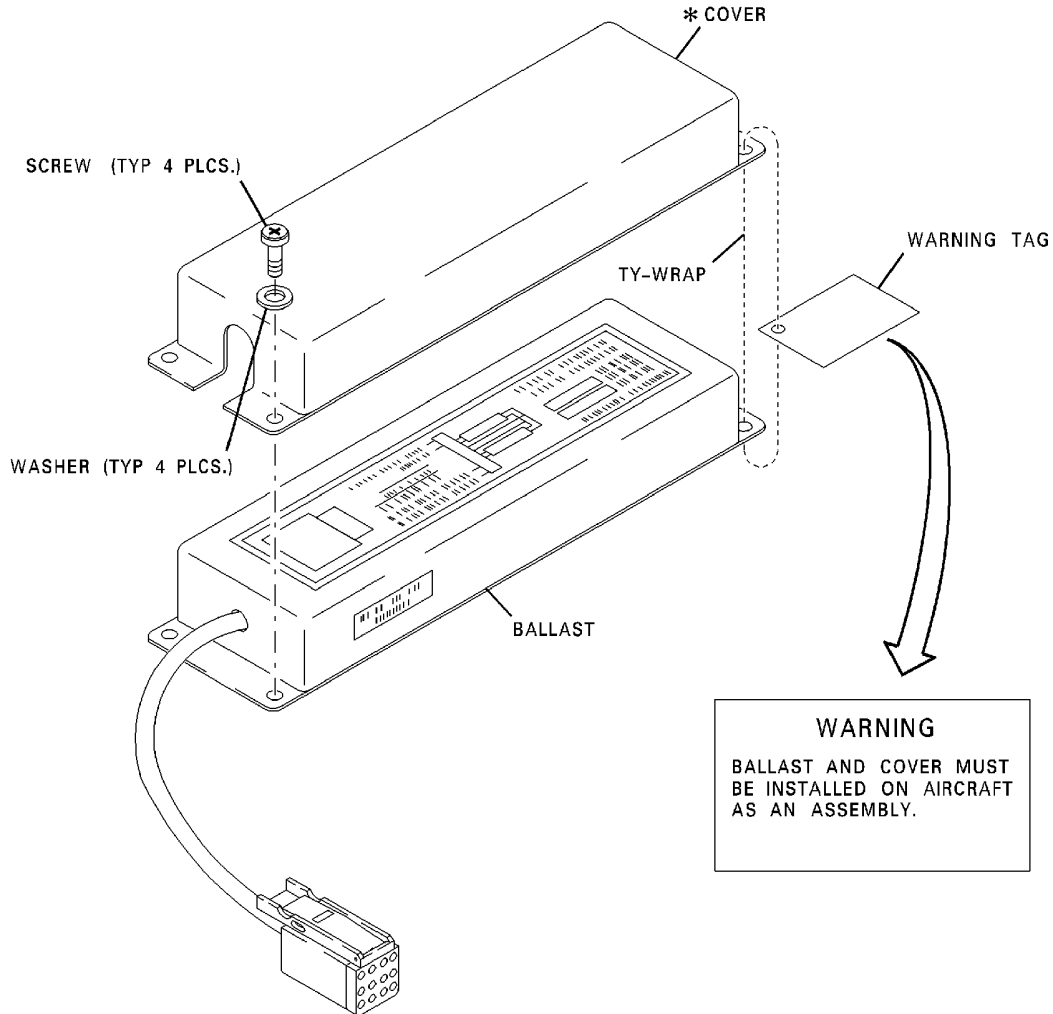
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# 33-21-03

Page 208  
Feb 01/2016



**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



**\* NOTE:**  
RERERENCE ALERT SERVICE BULLETIN A33-107, APPLICABLE TO AIRCRAFT WITH DAY-RAY PRODUCTS, UPPER AND LOWER SIDEWALL FLUORSCENT LIGHT BALLASTS.

CAG(IGDS)

BBB2-33-456

**Cabin Sidewall Lighting Ballast - Removal/Installation  
Figure 204/33-21-03-990-808**

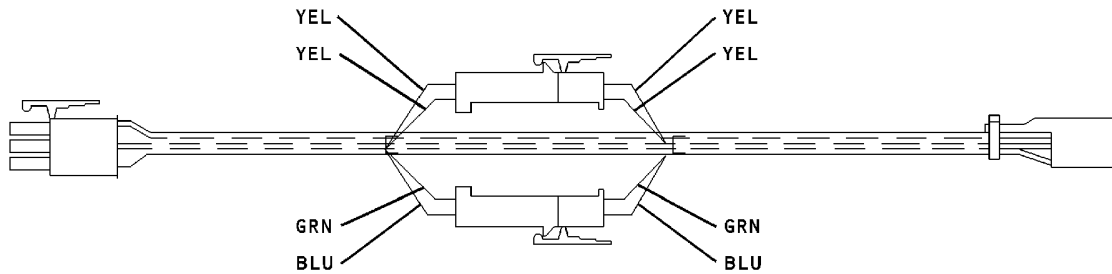
EFFECTIVITY  
WJE ALL

TP-80MM-WJE

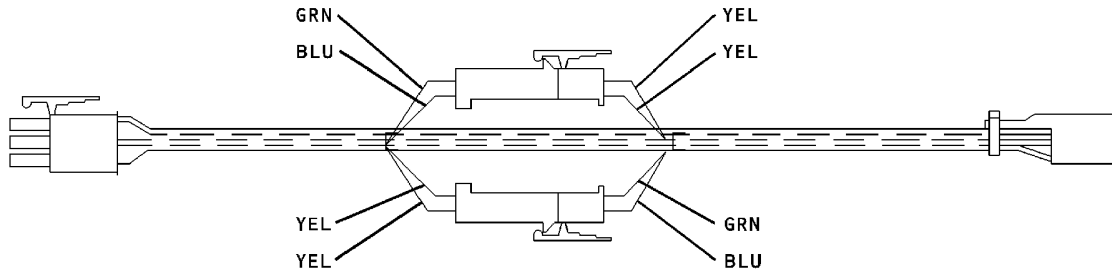
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Page 209  
Feb 01/2015

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



**DUAL LAMP CONFIGURATION**



**SINGLE LAMP CONFIGURATION**

**NOTE:**

IF THE AIRCRAFT HAS A BURNDY TYPE CONNECTOR INSTALLED FOR THE BALLAST, THE WIRE HARNESS MUST BE CONFIGURED TO EITHER A SINGLE OR DUAL LAMP INSTALLATION.

**SINGLE LAMP INSTALLATION CONNECT:**

YEL/YEL TO GRN/BLU (J3 TO P2)  
GRN/BLU TO YEL/YEL (J2 TO P3)

**DUAL LAMP INSTALLATION CONNECT:**

YEL/YEL TO YEL/YEL (J3 TO P3)  
GRN/BLU TO GRN/BLU (J2 TO P2)

CAG(IGDS)

BBB2-33-419

**Cabin Sidewall Lighting Ballast - Removal/Installation  
Figure 205/33-21-03-990-809**

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

**33-21-03**

Page 210  
Feb 01/2015

# MD-80 AIRCRAFT MAINTENANCE MANUAL

## AISLE LIGHTS - REMOVAL/INSTALLATION

### 1. General

- A. The following procedures are given for removing and installing the forward, mid, and aft aisle lights. Lamp replacement for the aisle lights can be accomplished by removing the louvered grid. When lamp replacement is accomplished, actuate the appropriate aisle lights switch to verify proper operation.

**WJE 405-411, 415-427, 429, 861-866, 868, 869, 871, 872, 880, 881, 883, 884, 891**

NOTE: References to the mid aisle light are not applicable on MD-87 series aircraft.

**WJE ALL**

### 2. Removal/Installation Aisle Lights

- A. Remove Aisle Light

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Open and tag following circuit breaker for applicable light:

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-778	AFT MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS
		B1-777	FWD MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS

- (2) To gain access to lamps, release fasteners through louvered grid and remove grid.  
 (3) Remove lamps by pushing on holders to release lamp.  
 (4) Remove adjacent ceiling panel to gain access to light fixture. (CEILING PANELS, SUBJECT 25-28-00)  
 (5) Disconnect electrical wiring from terminal strip.  
 (6) Remove fixture attaching screws and remove fixture from ceiling panel.  
 (7) Remove ballast attaching screws securing ballast to fixture.

- B. Install Aisle Light

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Make sure that these circuit breakers are open and have safety tags:

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-778	AFT MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS
		B1-777	FWD MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS

- (2) Position ballast on fixture and secure with attaching screws.  
 (3) Position fixture in ceiling panel and secure with attaching screws.  
 (4) Connect electrical wiring to terminal strip.

EFFECTIVITY  
**WJE ALL**

**33-21-04**

TP-80MM-WJE

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**

- (5) Install ceiling panel. (CEILING PANELS, SUBJECT 25-28-00)
- (6) Install lamps by pressing on holders and inserting lamps in holders.
- (7) Position louvered grid on fixture and secure with fasteners.
- (8) Remove the safety tags and close these circuit breakers:

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-778	AFT MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS
		B1-777	FWD MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS

- (9) Perform Adjustment/Test to verify proper operation of light. (AISLE LIGHTS - ADJUSTMENT/TEST, PAGEBLOCK 33-21-04/501)

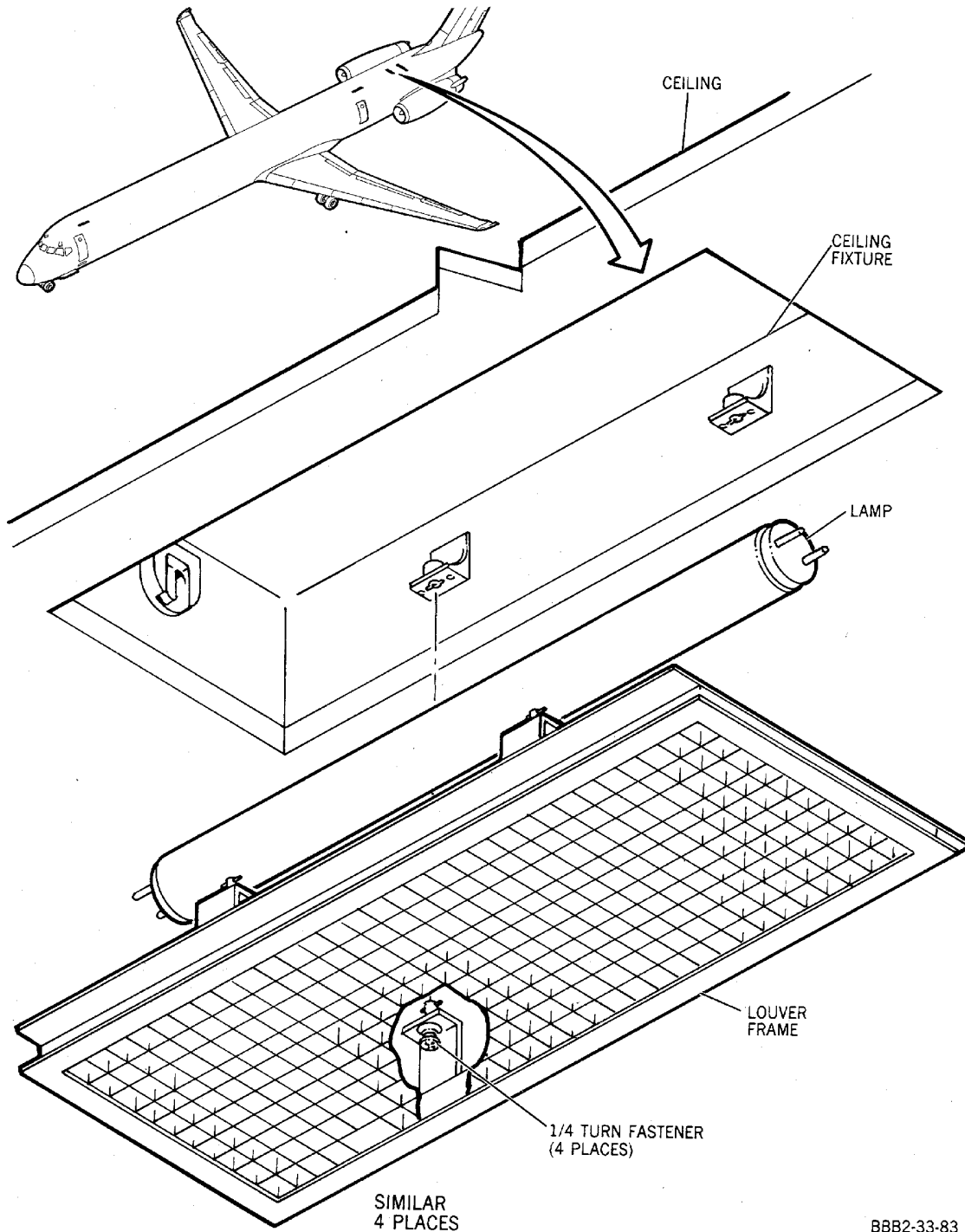
EFFECTIVITY  
WJE ALL

TP-80MM-WJE

**33-21-04**

Page 402  
Feb 01/2016

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



BBB2-33-83

**Aisle Lights -- Removal/Installation**  
**Figure 401/33-21-04-990-802**

EFFECTIVITY  
WJE ALL

**33-21-04**

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### AISLE LIGHTS - ADJUSTMENT/TEST

#### 1. General

- A. The following procedures provide a test of the normal and standby lights installed in the aisle lights fixtures.

#### 2. Adjustment/Test Aisle Lights

##### A. Test Forward Aisle Light

- (1) Place AISLE light switch, on forward attendant's panel, in DIM position; forward aisle light should come on dim.
- (2) Place AISLE switch in BRIGHT position; light should become bright.
- (3) Place AISLE switch to OFF position; light should go off.

##### B. Test Aft Aisle Lights

- (1) Place AISLE light switch, on aft attendant's panel, in DIM position; aft aisle lights should come on dim.
- (2) Place AISLE switch in BRIGHT position; lights should become bright.
- (3) Place AISLE switch to OFF position; light should go off.

##### C. Test Mid Aisle Light

NOTE: References to the mid aisle light are not applicable on MD-87 series aircraft.

- (1) Place AREA light switch, on mid cabin attendant's panel in DIM position; mid cabin aisle light should come on dim.
- (2) Place AREA light switch in BRIGHT position; light should become bright.
- (3) Place AREA light switch in OFF position; light should go off.

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

**33-21-04**

Page 501  
Feb 01/2016

# MD-80 AIRCRAFT MAINTENANCE MANUAL

## DOOR AND ENTRANCE LIGHTS - REMOVAL/INSTALLATION

### 1. General

- A. Most of the door and entrance light fixtures contain 28 vac lamps for normal lighting and 2.5 vdc lamps for emergency lighting. The cabin emergency lights switch, on the overhead switch panel, should be in the off position before the emergency lights arm and charge circuit breaker is opened to prevent energizing the emergency lights circuit (EMERGENCY LIGHTS, SUBJECT 33-53-00). Lamp replacement can be accomplished by opening the fixture door or removing the lens. When lamp replacement is accomplished, position appropriate switch to the on position to verify proper operation of light.

**WJE 405-411, 415-427, 429, 861-866, 868, 869, 871, 872, 880, 881, 883, 884, 891**

NOTE: References to the aft service door light are not applicable on MD-87 series aircraft.

**WJE ALL**

### 2. Removal/Installation Door and Entrance Lights

- A. Remove Lights

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

**CAUTION:** MAKE CERTAIN CABIN EMERGENCY LIGHTS SWITCHES ARE IN OFF POSITION BEFORE OPENING EMERGENCY LIGHTS ARM AND CHARGE CIRCUIT BREAKER.

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

#### **LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-778	AFT MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS
		B1-777	FWD MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS

#### **LOWER EPC, DC TRANSFER BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	37	B1-387	EMERGENCY LIGHTS CHARGING

#### **OVERHEAD EMERGENCY DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 401-409, 411, 412, 414-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893</b>			
A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE
<b>WJE 410</b>			
A	15	B1-41	EMERGENCY LIGHTS ARM AND CHARGE

**WJE ALL**

- (2) Open fixture door or remove lens to gain access to lamps and attaching screws.  
 (3) Remove lamps and attaching screws.  
 (4) Disconnect electrical wiring.  
 (5) Remove fixture.

- B. Install Lights

EFFECTIVITY  
WJE ALL

**33-21-05**

TP-80MM-WJE

## MD-80 AIRCRAFT MAINTENANCE MANUAL

**WARNING:** TAG AND SAFETY CIRCUIT BREAKERS.

- (1) Make sure that these circuit breakers are open and have safety tags:

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-778	AFT MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS
		B1-777	FWD MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS

**LOWER EPC, DC TRANSFER BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	37	B1-387	EMERGENCY LIGHTS CHARGING

**OVERHEAD EMERGENCY DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 401-409, 411, 412, 414-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893</b>			
A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE
<b>WJE 410</b>			
A	15	B1-41	EMERGENCY LIGHTS ARM AND CHARGE

**WJE ALL**

- (2) Connect electrical wiring.
- (3) Install fixture and attaching screws.
- (4) Install lamps and secure fixture door or lens.
- (5) Circuit breakers - applicable to light being removed:  
Remove the safety tags and close these circuit breakers:

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-778	AFT MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS
		B1-777	FWD MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS

**LOWER EPC, DC TRANSFER BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	37	B1-387	EMERGENCY LIGHTS CHARGING

**OVERHEAD EMERGENCY DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 401-409, 411, 412, 414-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893</b>			
A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE
<b>WJE 410</b>			
A	15	B1-41	EMERGENCY LIGHTS ARM AND CHARGE

EFFECTIVITY  
WJE ALL

**33-21-05**

TP-80MM-WJE

Page 402  
Feb 01/2016



**MD-80  
AIRCRAFT MAINTENANCE MANUAL**

**WJE ALL**

- (6) Perform adjustment/test to verify proper operation of light.

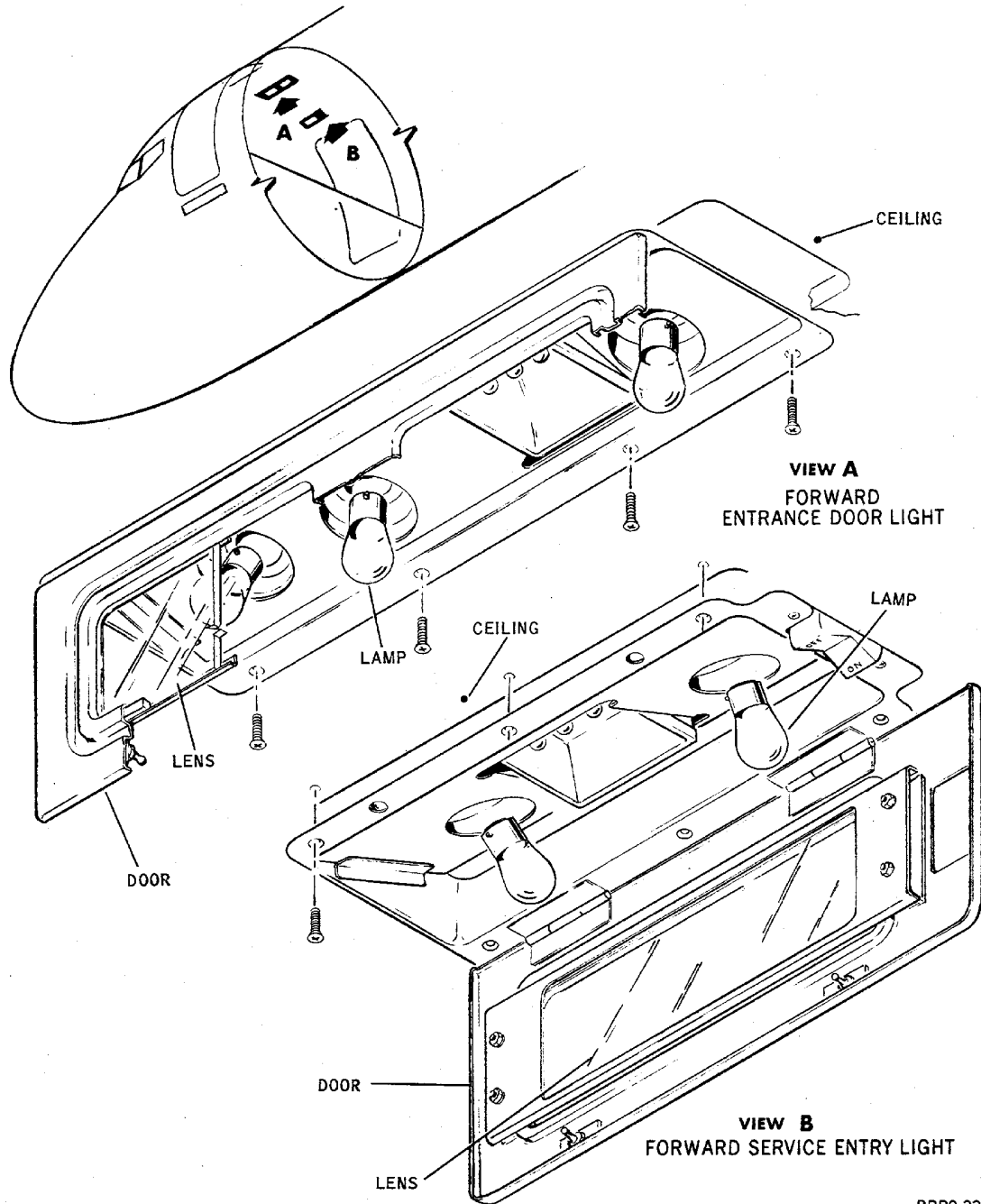
EFFECTIVITY  
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TP-80MM-WJE

**33-21-05**

Page 403  
Feb 01/2015

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



BBB2-33-24

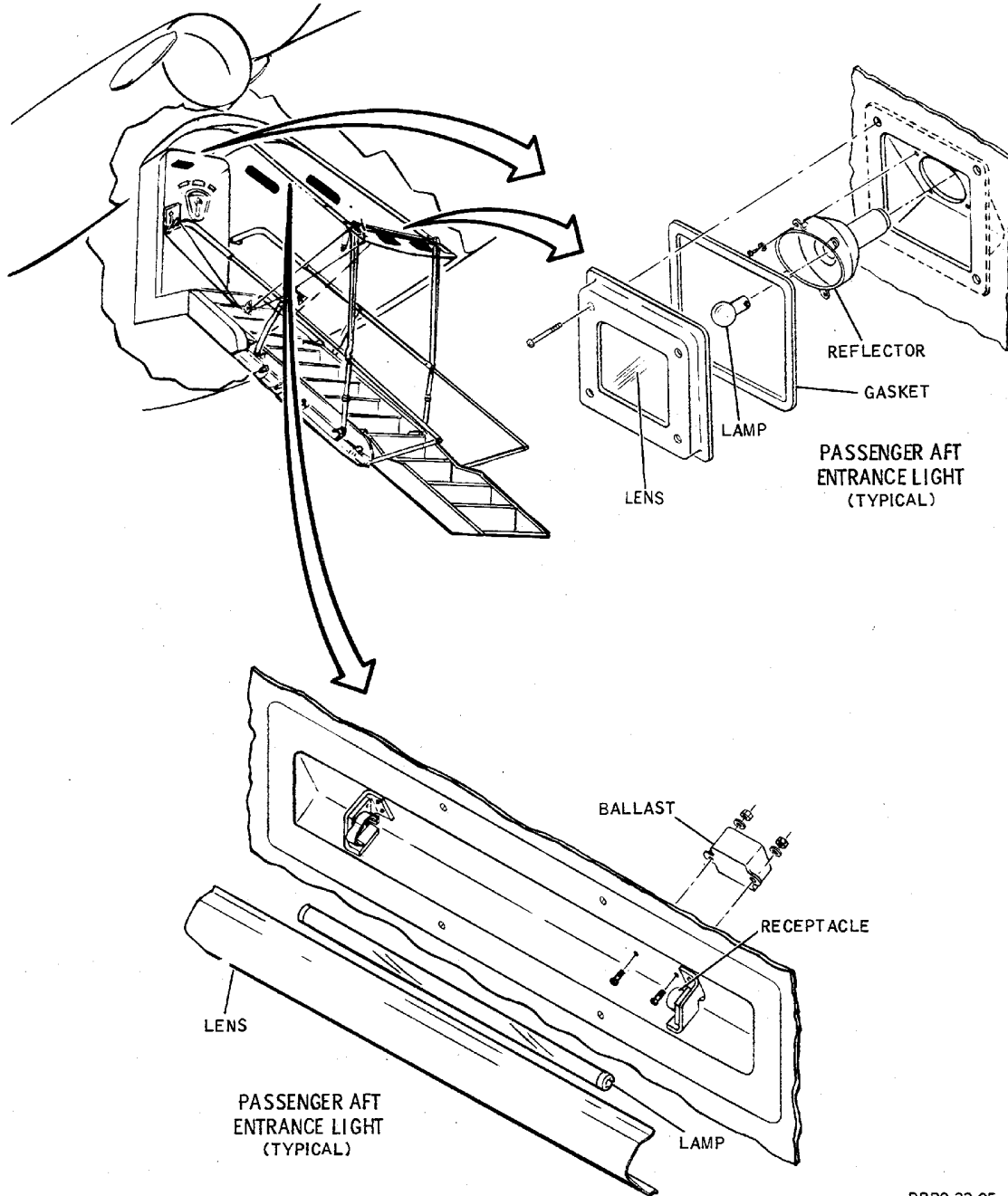
**Forward Door and Service Entrance Lights -- Removal/Installation  
Figure 401/33-21-05-990-801**

EFFECTIVITY  
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**33-21-05**

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# MD-80 AIRCRAFT MAINTENANCE MANUAL



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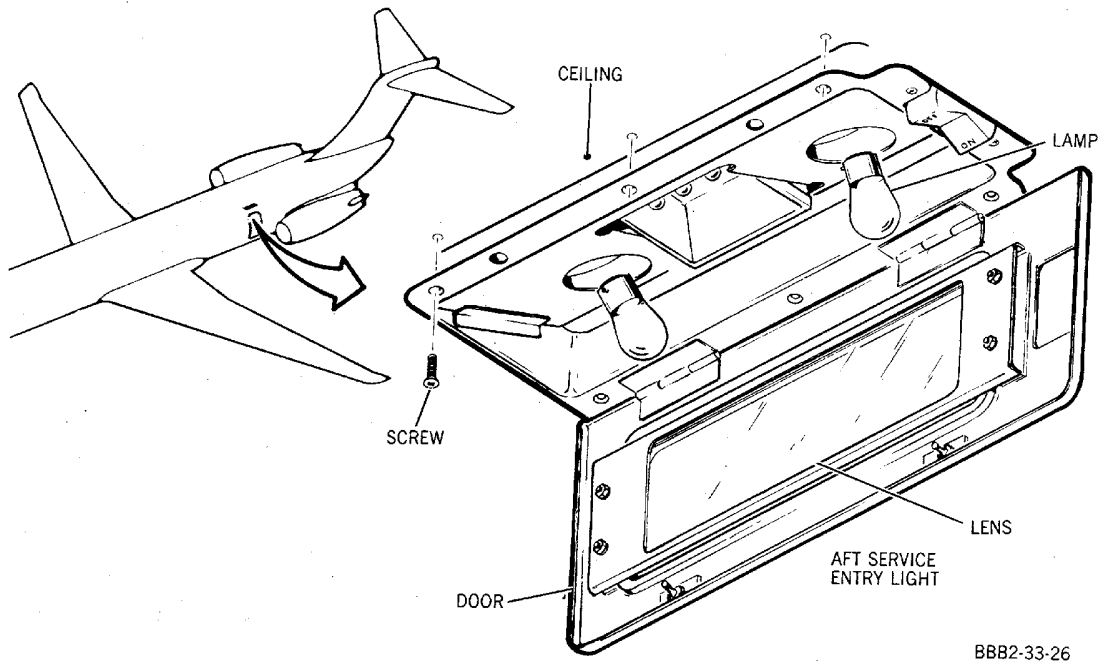
Aft Entrance and Service Lights -- Removal/Installation  
Figure 402/33-21-05-990-802

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## 33-21-05

TP-80MM-WJE

# MD-80 AIRCRAFT MAINTENANCE MANUAL



**Aft Entrance and Service Lights -- Removal/Installation**  
**Figure 403/33-21-05-990-803**

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**33-21-05**

TP-80MM-WJE

Page 406  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### DOOR AND ENTRANCE LIGHTS - ADJUSTMENT/TEST

#### 1. General

- A. The following procedures provide a test of the normal and emergency lights installed in the door and entrance lights fixtures. When testing the emergency lighting system, turn the emergency light switch off as soon as practicable to prevent excessive discharge of the emergency batteries. For each minute of operation, the batteries must charge approximately one hour and fifteen minutes to recover.

#### 2. Adjustment/Test Door and Entrance Lights

A. Test Emergency Lamps in Fixtures

- (1) Place EMERGENCY LIGHTS switch, on overhead switch panel in TEST/ON position; emergency lights should come on.

**CAUTION:** EMERGENCY LIGHTS MUST NOT REMAIN ON LONGER THAN MINIMUM PERIOD ACTUALLY REQUIRED. NEVER EXCEED ONE MINUTE PERIOD FOR TEST.

- (2) Place EMERGENCY LIGHTS switch to OFF position; lights should go off.

B. Test Passenger Forward Entrance Door Light

- (1) Place ENTRY LIGHTS switch on forward attendant's control panel in ON position; lights which illuminate entrance should come on.

- (2) Place ENTRY LIGHTS switch to OFF position; lights should go off.

- (3) Place ATTENDANT LIGHT switch, on forward attendant's control panel, in DIM position; light which illuminates attendant's station should come on.

- (4) Place ATTENDANT LIGHT switch in BRIGHT position; light should become bright.

- (5) Place ATTENDANT LIGHT switch to OFF position; lights should go off.

C. Test Forward Service Door Light

- (1) Place switch on forward drop ceiling Sta 180R to ON; light should come on.

- (2) Place switch on forward drop ceiling Sta 180R to OFF position; light should go off.

D. Test Passenger Aft Door and Entrance Lights

**WJE 405-411, 415-427, 429, 861-866, 868, 869, 871, 872, 880, 881, 883, 884, 891**

NOTE: References to the aft service door light are not applicable on MD-87 series aircraft.

#### **WJE ALL**

- (1) Actuate AFT STAIR LIGHTS switch on aft attendant's panel; aft door and entrance lights should come on.

- (2) Place AFT STAIR LIGHTS switch to OFF position; lights should go off.

- (3) Actuate AFT STAIR LIGHTS switch on aft stair control panel (external); aft door and entrance lights should come on.

- (4) Place AFT STAIR LIGHTS switch to OFF position; lights should go off.

- (5) Place switch on aft service door drop ceiling panel, in Dim position; light should come on.

- (6) Place switch on aft service door drop ceiling panel, in BRT position; light should become bright.

- (7) Place switch on aft service door drop ceiling panel, in OFF position; light should go off.

EFFECTIVITY  
WJE ALL

**33-21-05**

TP-80MM-WJE

**MD-80**  
**AIRCRAFT MAINTENANCE MANUAL**  
**READING LIGHTS - REMOVAL/INSTALLATION**

**1. General**

A. This chapter provides removal/installation procedures for the passenger Reading Lights. Manual procedures are provided in Paragraph 3.. Procedures for using the Reading Light Changing utensil are provided in Paragraph 4.. The Reading Lights are installed in the Passenger Service Units (PSUs) which are overhead at each passenger seat position.

**2. Equipment and Materials**

NOTE: Equivalent substitute may be used instead of the following item.

NOTE: Some materials in the Equipment and Materials list may not be permitted to be used in your location. Persons in each location must make sure they are permitted to use these materials. All persons must obey all applicable federal, state, local, and provincial regulations for their location.

**Table 401**

Name and Number	Manufacturer
Reading Light Adjustment Utensil CPN 5538265	American Airlines

**3. Removal/Installation Reading Lights - Manual**

A. Remove Reading Lights

(1) Hold lens cap with fingers and pull straight outward from fixture.

**CAUTION:** DO NOT FORCE OR TWIST LENS CAP. DAMAGE TO LENS CAP OR LIGHT HOUSING MAY OCCUR.

(2) Remove lamp.

B. Install Reading Lights

(1) Keep lamp free of fingerprints and install lamp.

NOTE: Oil contamination from fingers causes lamp to smoke when lit.

(2) Press lens cap firmly against light housing until bullet type latches secure lens cap to housing.

(3) Hold lens cap and pull outward gently to ensure that lens is completely latched.

**4. Removal/Installation Reading Lights - Reading Light Changing Utensil**

A. Remove Reading Lights

(1) Remove lens cap with notched end of utensil.

(2) Using opposite end of utensil, remove lamp.

B. Install Reading Lights

(1) Keep lamp free of fingerprints and install lamp.

NOTE: Oil contamination from fingers causes lamp to smoke when lit.

(2) Insert lens in notched end of utensil, press lens cap firmly against light housing until bullet type latches secure lens cap to housing.

(3) Pull outward gently to ensure that lens is completely latched.

EFFECTIVITY WJE ALL	
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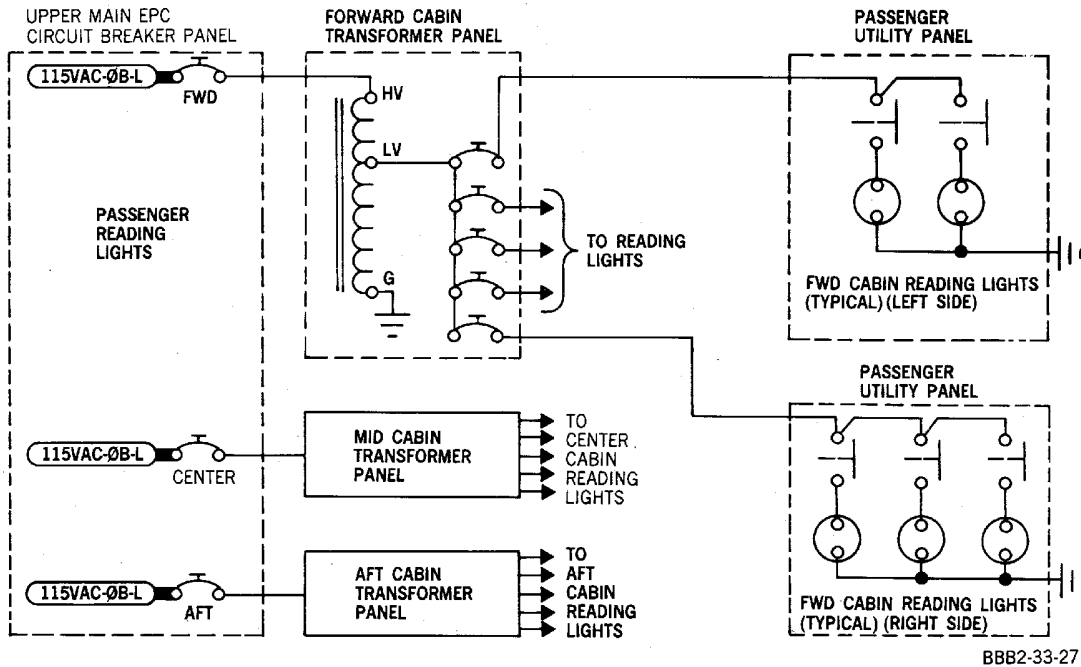
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## MD-80 AIRCRAFT MAINTENANCE MANUAL

### UTILITY AND WORK LIGHTS - DESCRIPTION AND OPERATION

#### 1. General

- A. The utility and work lights consist of the passenger reading lights, mirror lights, attendant's work light, and galley light.
- B. The passenger reading lights are located in the overhead stowage rack. Incandescent lights are installed and directed one to a seat. Each light is turned on and off with a push-button switch located beside the light. The lamps receive power from the left 115 vac bus reduced in voltage through a transformer. A lens, positioned in front of the lamp, focuses the light on the reading area.
- C. The lavatory mirror lights are fluorescent lights located on the upper and lower portions of the mirror. A switch installed on the wall over the door, is actuated by the opening and closing of the door. The lights automatically dim when the door is open. A switch on the aft attendant's control panel permits the mirror lights to be turned on bright with the door open, but it cannot dim the lights when the door is closed. The lavatory mirror lights continuously receive power from the 115 vac ground service bus when the bus is energized.
- D. The attendant's work lights are located in the forward, mid and aft cabin ceiling. An incandescent lamp provides direct lighting and is activated by a switch on the attendant panels. The lights receive power from the 115 vac ground service bus, and voltage is reduced through a transformer.
- E. The galley lights are located in the galley ceiling. The forward galley light is actuated by a switch on the light assembly. The aft galley light is actuated by a switch on the aft galley light assembly. A fluorescent lamp provides direct lighting. The light receives power from the 115 vac ground service bus.



**Passenger Reading Lights -- Simplified Schematic**  
Figure 1/33-22-00-990-801

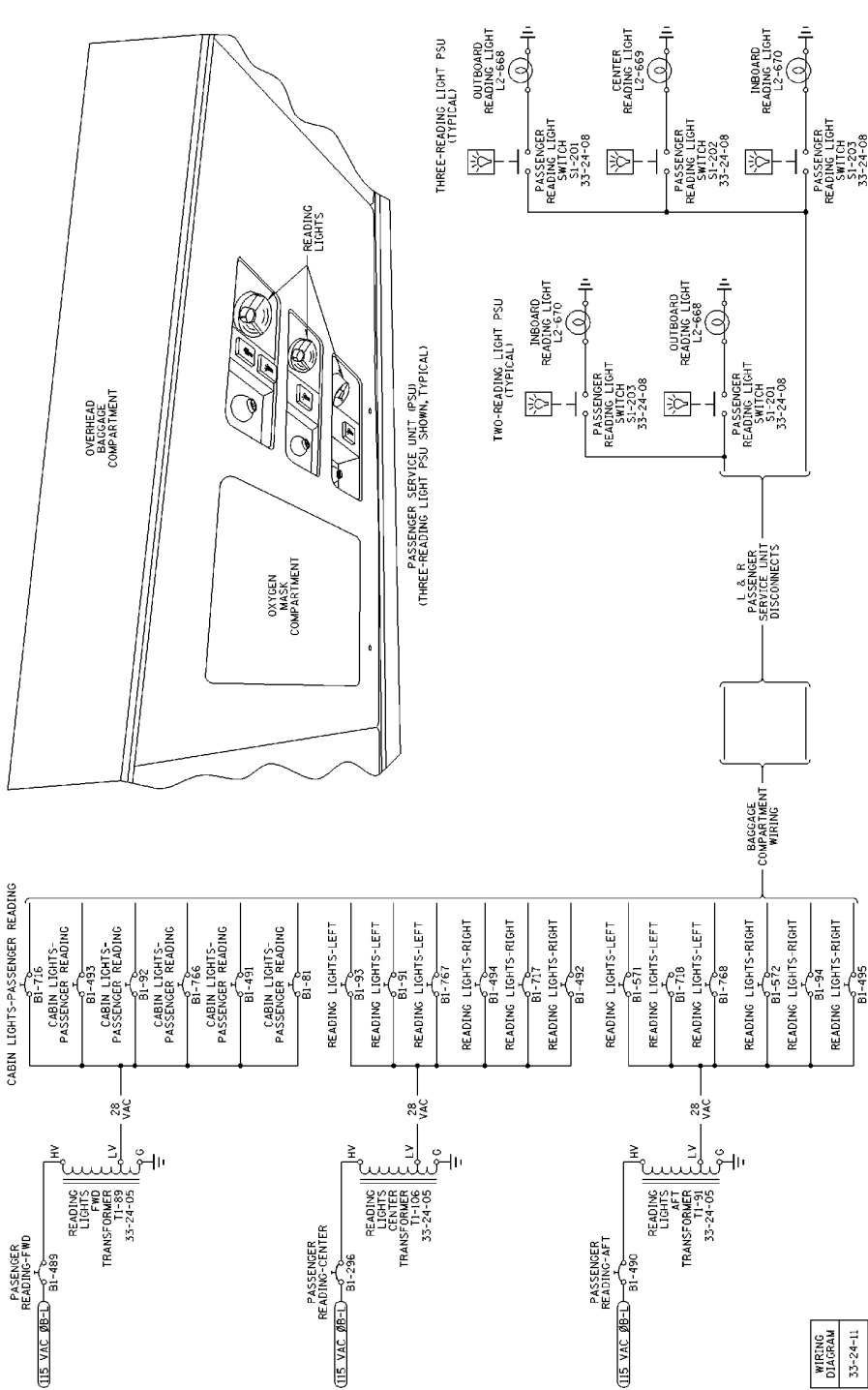
EFFECTIVITY  
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**33-22-00**

TP-80MM-WJE

Page 1  
Feb 01/2016

# MD-80 AIRCRAFT MAINTENANCE MANUAL



**Passenger Reading Lights -- Simplified Schematic**  
**Figure 2/33-22-00-990-802**

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MDC PROPRIETARY

CAG(I/GDS)

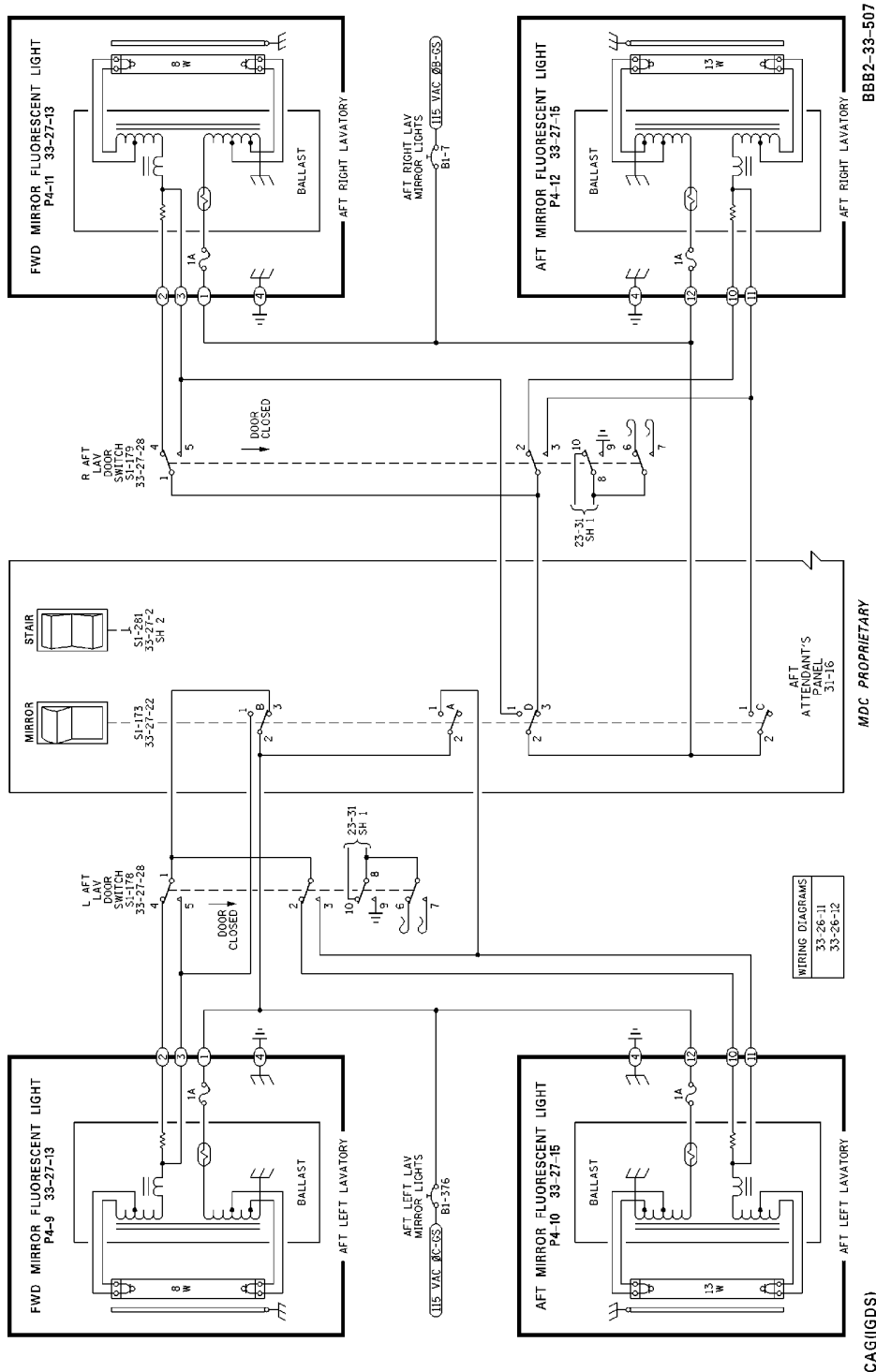
WIRING DIAGRAM  
33-24-11

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**33-22-00**



# MD-80 AIRCRAFT MAINTENANCE MANUAL

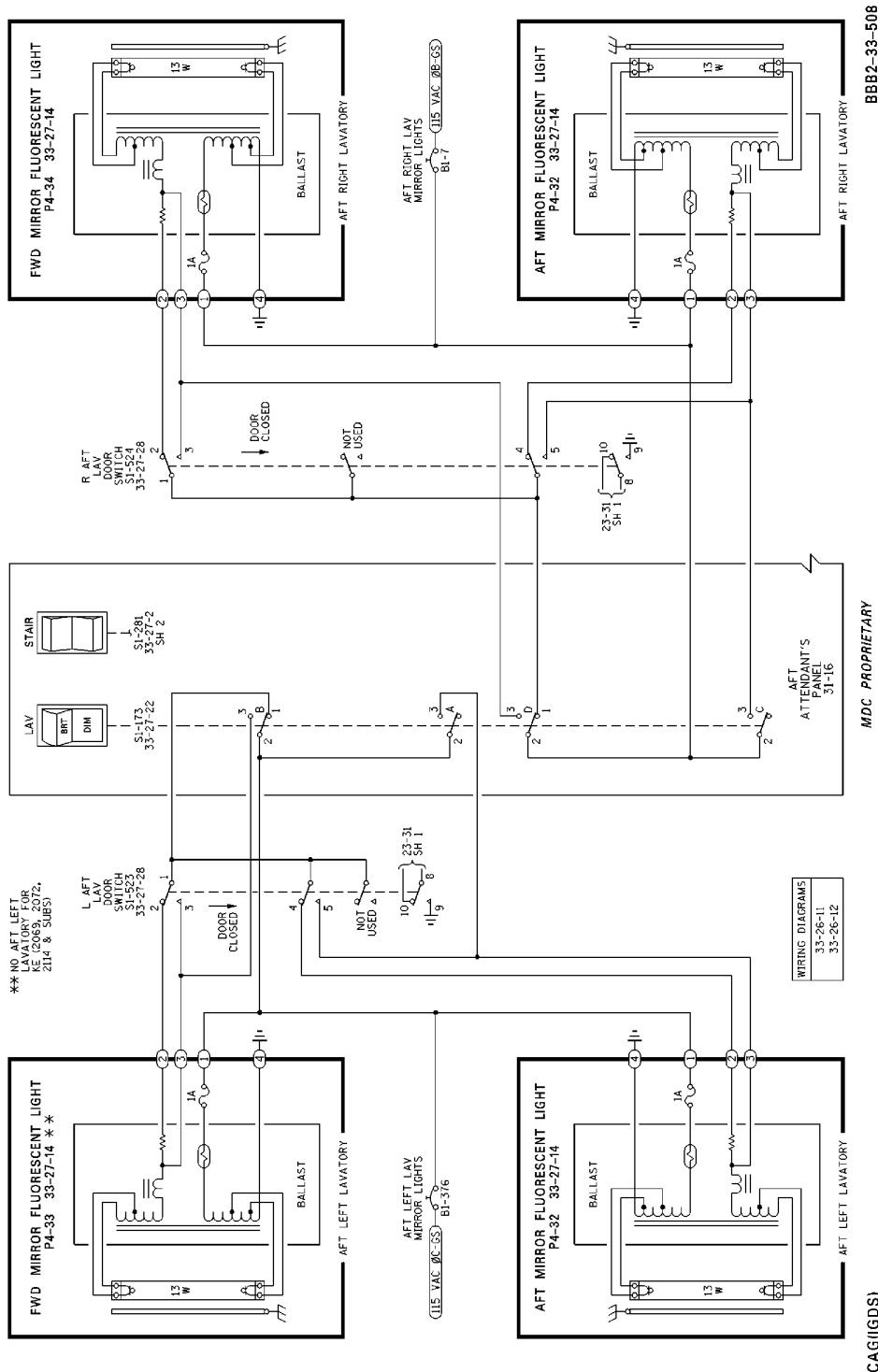


Aft Lavatory Mirror Lights -- Simplified Schematic  
Figure 3/33-22-00-990-803

EFFECTIVITY  
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# MD-80 AIRCRAFT MAINTENANCE MANUAL



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MDC PROPRIETARY

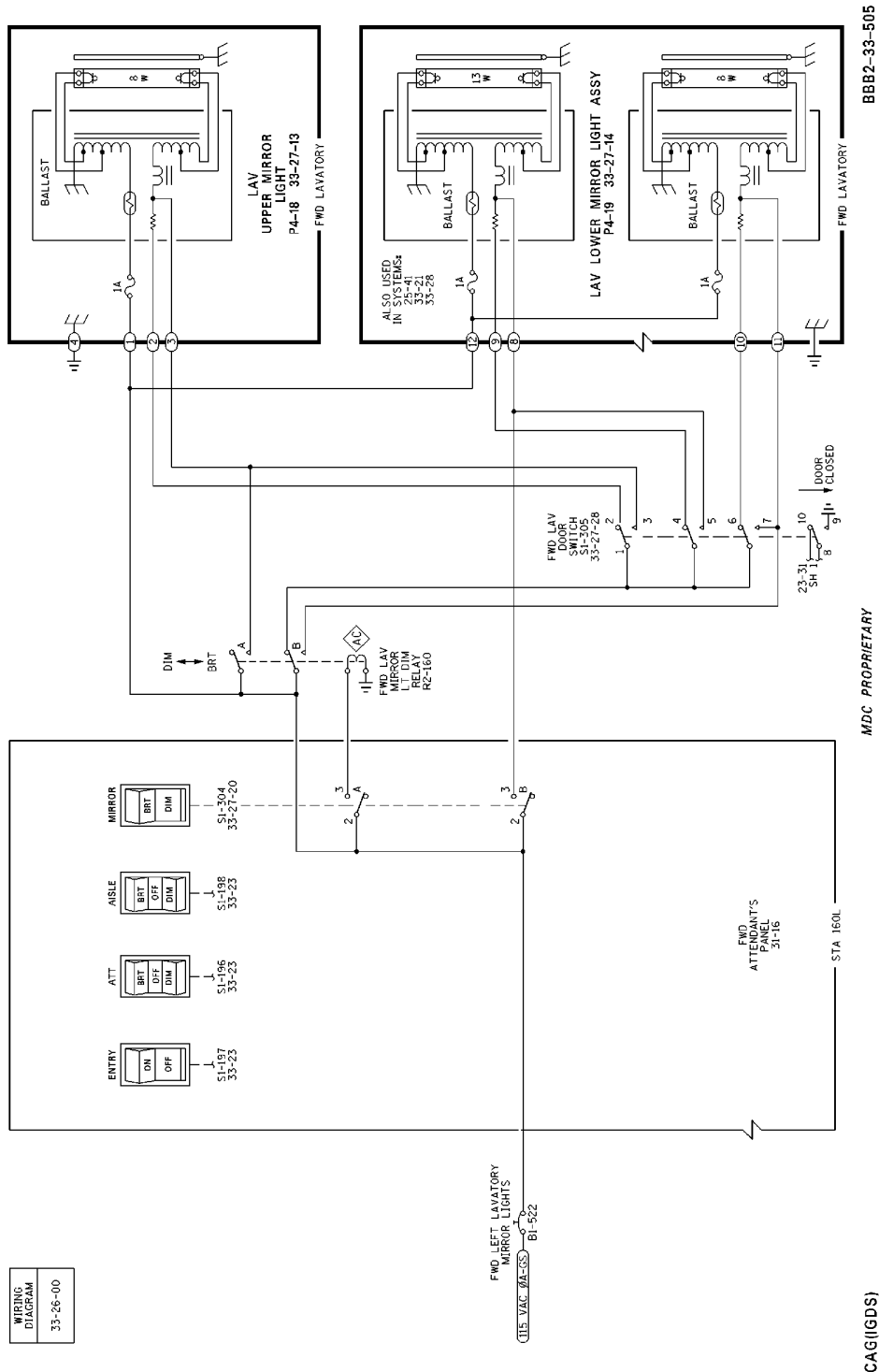
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**Aft Lavatory Mirror Lights -- Simplified Schematic**  
Figure 4/33-22-00-990-804

EFFECTIVITY  
WJE ALL

**33-22-00**

# MD-80 AIRCRAFT MAINTENANCE MANUAL

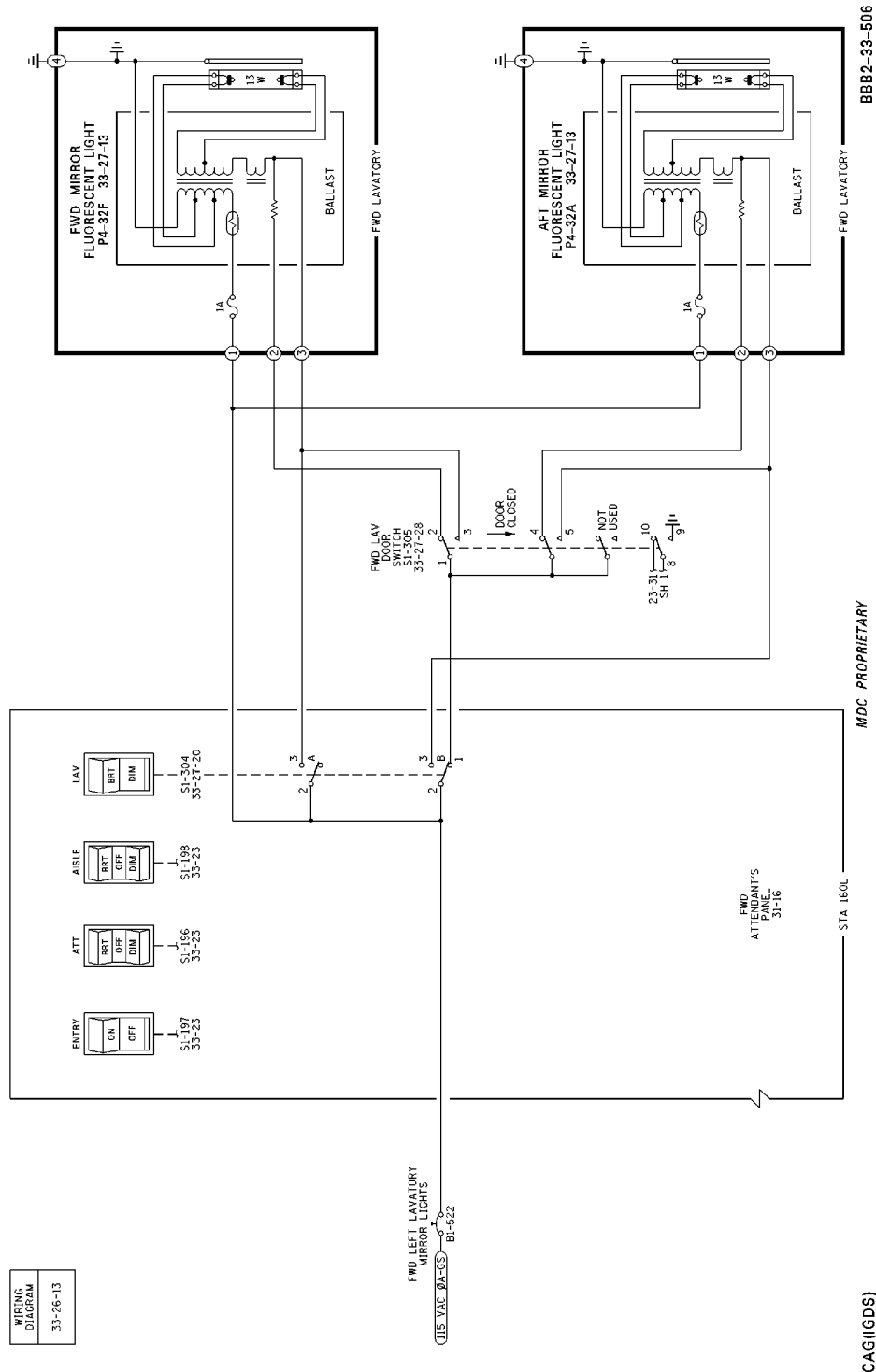


**Forward Lavatory Mirror Lights -- Simplified Schematic**  
Figure 5/33-22-00-990-805

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WJE ALL

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# MD-80 AIRCRAFT MAINTENANCE MANUAL

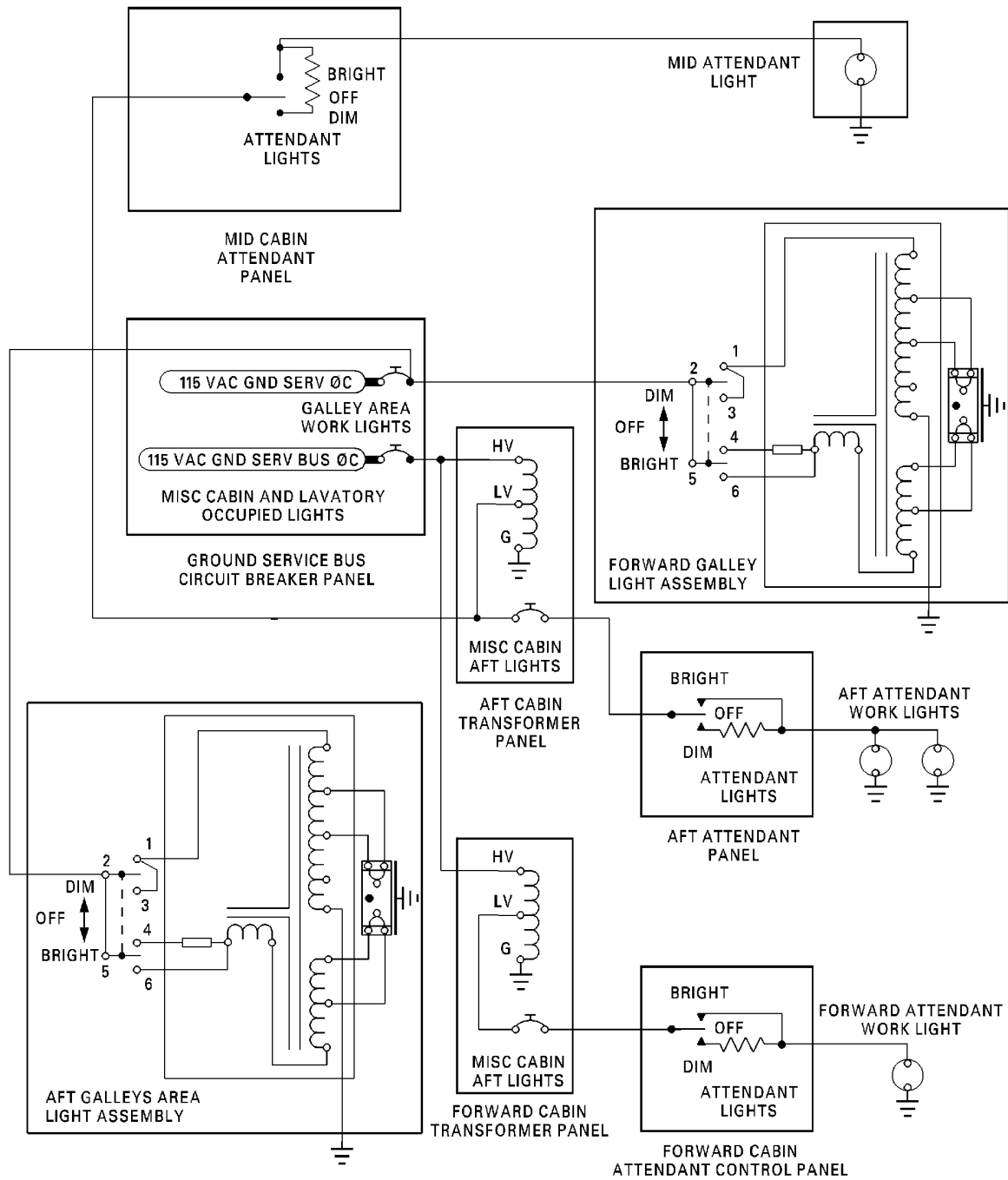


Forward Lavatory Mirror Lights -- Simplified Schematic  
Figure 6/33-22-00-990-806

EFFECTIVITY  
WJE ALL

33-22-00

# MD-80 AIRCRAFT MAINTENANCE MANUAL



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**Galley and Attendant Work Lights -- Simplified Schematic**  
Figure 7/33-22-00-990-807

EFFECTIVITY  
WJE ALL

**33-22-00**

TP-80MM-WJE

Page 7  
Feb 01/2016

# MD-80 AIRCRAFT MAINTENANCE MANUAL

## UTILITY LIGHTS - MAINTENANCE PRACTICES

### 1. General

- A. The utility lights consist of the passenger reading lights and lavatory mirror lights. Lamp replacement is accomplished by opening the fixture or removing the lens. When lamp replacement is accomplished, place appropriate switch in the on position to verify proper operation of light.
- B. A reading light adjustment tool is used to adjust the passenger reading light. The tool has a short telescopic handle that extends approximately from 24 inches to 59 inches (60.96 cm to 149.86 cm).
- C. The reading light adjustment tool consists of a plastic cap designed to fit into the ball housing of a passenger reading unit. Each light is adjustable either side of center in a 360 degree conical zone.
- D. The light fixtures should be cool during adjustment because heat causes stiffness and binding of the movable parts on the adjustment tool.

### 2. Equipment and Materials

NOTE: Equivalent substitute may be used instead of the following item.

NOTE: Some materials in the Equipment and Materials list may not be permitted to be used in your location. Persons in each location must make sure they are permitted to use these materials. All persons must obey all applicable federal, state, local, and provincial regulations for their location.

**Table 201**

Name and Number	Manufacturer
Reading light adjustment tool PA70224-1 or PA70224-5	Luminator

### 3. Removal/Installation Lavatory Mirror Lights

- A. Remove Lights(Figure 201)

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

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

#### **LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-778	AFT MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS
		B1-777	FWD MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS
		B1-522	LAVATORY MIRROR LIGHTS - FWD LEFT

#### **LOWER EPC, DC AIR CONDITIONING & MISCELLANEOUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
W	30	B1-365	PASSENGER WARNING SIGNS

#### **LOWER EPC, MISCELLANEOUS LEFT DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
P	37	B1-8	CALL SYSTEM

EFFECTIVITY  
WJE ALL

# 33-22-01

TP-80MM-WJE

Page 201  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### UPPER EPC, POWER - RIGHT AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 415-427, 429, 861-866, 868, 869, 871, 872, 891</b>			
L	6	B1-526	RAZOR OUTLETS FWD
L	7	B1-367	RAZOR OUTLETS AFT

#### WJE ALL

- (2) Gain access to lamp and attaching screws.
- (3) Remove lamp and attaching screws.
- (4) Disconnect and tag electrical wiring.
- (5) Remove light fixture.

#### 4. Removal/Installation Lavatory Mirror Lights

- A. Install Lights(Figure 201)

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Make sure that these circuit breakers are open and have safety tags:

### LEFT CONSOLE, GROUND SERVICE BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-778	AFT MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS
		B1-777	FWD MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS
		B1-522	LAVATORY MIRROR LIGHTS - FWD LEFT

### LOWER EPC, DC AIR CONDITIONING & MISCELLANEOUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
W	30	B1-365	PASSENGER WARNING SIGNS

### LOWER EPC, MISCELLANEOUS LEFT DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
P	37	B1-8	CALL SYSTEM

### UPPER EPC, POWER - RIGHT AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 415-427, 429, 861-866, 868, 869, 871, 872, 891</b>			
L	6	B1-526	RAZOR OUTLETS FWD
L	7	B1-367	RAZOR OUTLETS AFT

#### WJE ALL

- (2) Connect electrical wiring.
- (3) Position fixture and install attaching screws.
- (4) Install lamp.
- (5) Circuit breakers - applicable to light being removed:

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

# 33-22-01

Page 202  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

Remove the safety tags and close these circuit breakers:

### LEFT CONSOLE, GROUND SERVICE BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-778	AFT MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS
		B1-777	FWD MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS
		B1-522	LAVATORY MIRROR LIGHTS - FWD LEFT

### LOWER EPC, DC AIR CONDITIONING & MISCELLANEOUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
W	30	B1-365	PASSENGER WARNING SIGNS

### LOWER EPC, MISCELLANEOUS LEFT DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
P	37	B1-8	CALL SYSTEM

### UPPER EPC, POWER - RIGHT AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 415-427, 429, 861-866, 868, 869, 871, 872, 891</b>			
L	6	B1-526	RAZOR OUTLETS FWD
L	7	B1-367	RAZOR OUTLETS AFT

#### WJE ALL

- (6) Place appropriate switch in ON position to check proper operation of lavatory mirror lights.

#### 5. Adjustment/Test Lavatory Mirror Lights

##### A. Test Lavatory Mirror Lights

- (1) Place mirror light dimming switch on attendant's panel in DIM position.
- (2) Close lavatory door; lights should brighten.
- (3) Open lavatory door; lights should dim.

**NOTE:** If lights do not dim or brighten properly, verify proper operation of lavatory mirror lights dimming switch. (UTILITY AND WORK LIGHTS CIRCUIT COMPONENTS, SUBJECT 33-22-03)

- (4) Place mirror light dimming switch on attendant's panel in BRIGHT position; lights should brighten.

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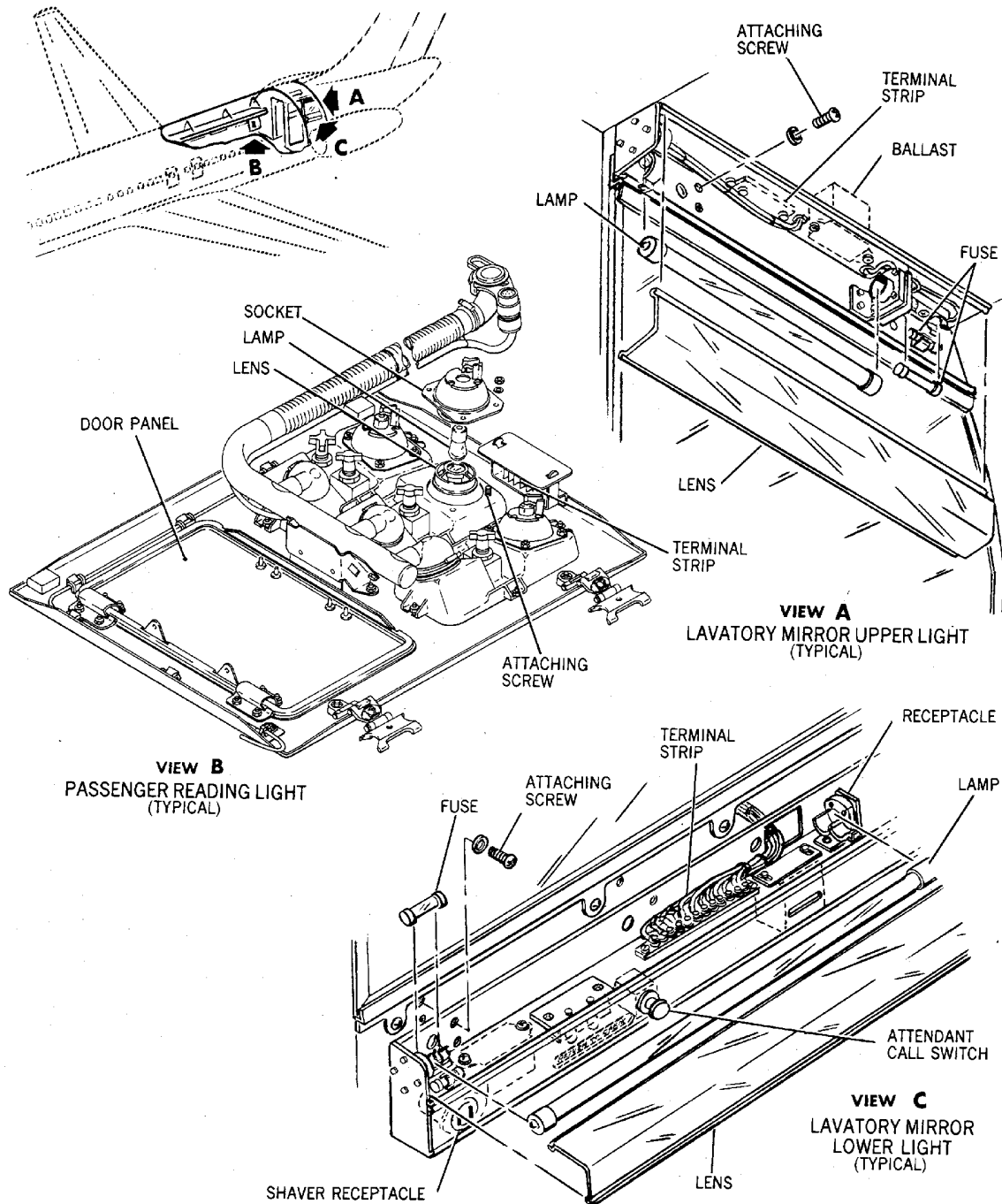
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# 33-22-01

Page 203  
Feb 01/2016



**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



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**Passenger Reading and Lavatory Mirror Lights -- Removal/Installation**  
Figure 201/33-22-01-990-801

EFFECTIVITY  
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**33-22-01**

TP-80MM-WJE

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### 6. Removal/Installation Passenger Reading Lights

#### A. Remove Lights(Figure 202)

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

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

#### **LOWER EPC, MISCELLANEOUS LEFT DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
P	37	B1-8	CALL SYSTEM

#### **UPPER EPC, LIGHTS - LEFT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	20	B1-489	PASSENGER READING-FWD
K	21	B1-296	PASSENGER READING - CENTER
K	22	B1-490	PASSENGER READING-AFT

- (2) Grasp lens cap with fingers and pull straight outward from fixture.

**CAUTION:** DO NOT TWIST OR USE FORCE ON THE LENS CAP. THIS WILL PREVENT DAMAGE TO THE LENS CAP OR THE LIGHT SOCKET.

- (3) Remove lamp.  
 (4) Open Passenger Service Unit panel (PSU) and gain access to fixture and electrical wiring.  
 (5) Disconnect and tag electrical wiring.  
 (6) Remove attaching screws and remove light fixture.

#### B. Install Lights(Figure 202)

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Make sure that these circuit breakers are open and have safety tags:

#### **LOWER EPC, MISCELLANEOUS LEFT DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
P	37	B1-8	CALL SYSTEM

#### **UPPER EPC, LIGHTS - LEFT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	20	B1-489	PASSENGER READING-FWD
K	21	B1-296	PASSENGER READING - CENTER
K	22	B1-490	PASSENGER READING-AFT

- (2) Connect electrical wiring.  
 (3) Position fixture and install attaching screws and close PSU panel.  
 (4) Install lamp.  
 (5) Press lens cap firmly against light housing until bullet type latches secure lens cap to light housing.  
 (6) Grasp lens cap and pull outward slightly to make sure that lens is completely latched.

EFFECTIVITY  
WJE ALL

# 33-22-01

TP-80MM-WJE

## MD-80 AIRCRAFT MAINTENANCE MANUAL

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

### LOWER EPC, MISCELLANEOUS LEFT DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
P	37	B1-8	CALL SYSTEM

### UPPER EPC, LIGHTS - LEFT AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	20	B1-489	PASSENGER READING-FWD
K	21	B1-296	PASSENGER READING - CENTER
K	22	B1-490	PASSENGER READING-AFT

- (8) Place reading light switch in on position to verify proper operation of passenger reading light.

## 7. Adjustment/Test Passenger Reading Lights

### A. Adjustment/Test Procedure

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Make sure that these circuit breakers are open and have safety tags:

### LOWER EPC, MISCELLANEOUS LEFT DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
P	37	B1-8	CALL SYSTEM

### UPPER EPC, LIGHTS - LEFT AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	20	B1-489	PASSENGER READING-FWD
K	21	B1-296	PASSENGER READING - CENTER
K	22	B1-490	PASSENGER READING-AFT

- (2) Grasp lens cap with fingers and pull straight outward from fixture.

**CAUTION:** DO NOT TWIST OR USE FORCE ON THE LENS CAP. THIS WILL PREVENT DAMAGE TO THE LENS CAP OR THE LIGHT SOCKET.

- (3) Insert reading light adjustment tool into ball housing of reading light. Reference (Figure 202) for proper direction of reading light illuminations.
- (4) Rotate and adjust reading light housing until tool points to reading plane dimensions (Figure 202).
- (5) Remove adjustment tool.
- (6) Press lens cap firmly against light housing until bullet type latches secure lens cap to light housing.
- (7) Grasp lens cap and pull outward slightly to make sure that lens is completely latched.
- (8) Remove the safety tags and close these circuit breakers:

### LOWER EPC, MISCELLANEOUS LEFT DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
P	37	B1-8	CALL SYSTEM

EFFECTIVITY  
WJE ALL

# 33-22-01

TP-80MM-WJE

Page 206  
Feb 01/2015

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**

**UPPER EPC, LIGHTS - LEFT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	20	B1-489	PASSENGER READING-FWD
K	21	B1-296	PASSENGER READING - CENTER
K	22	B1-490	PASSENGER READING-AFT

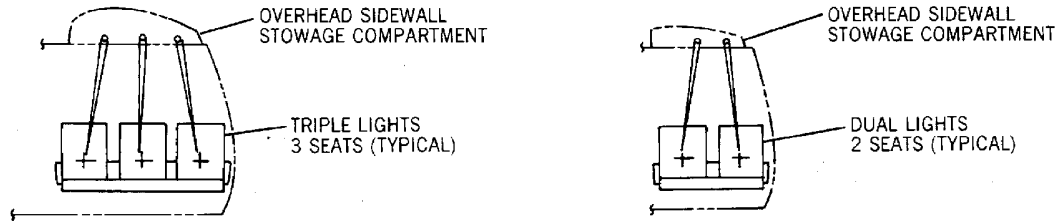
EFFECTIVITY  
WJE ALL

TP-80MM-WJE

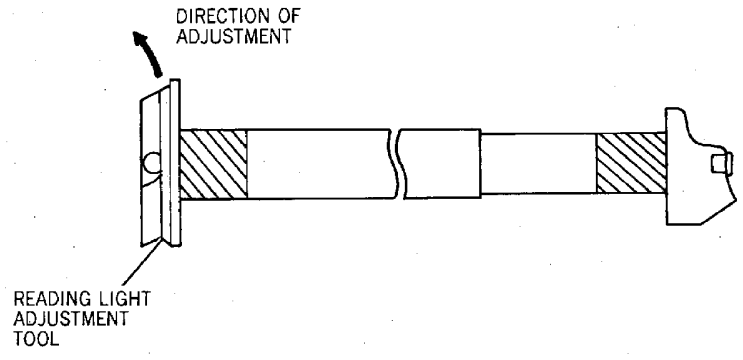
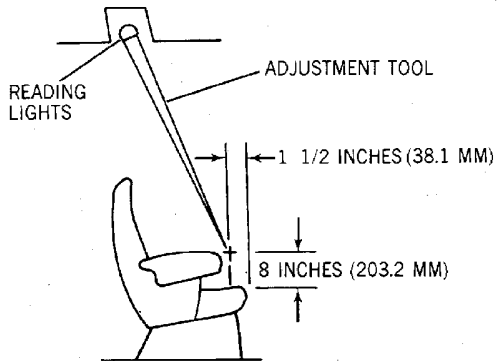
**33-22-01**

Page 207  
Feb 01/2015

# MD-80 AIRCRAFT MAINTENANCE MANUAL



VIEW LOOKING AFT  
LEFT SIDE SHOWN  
RIGHT SIDE OPPOSITE



BBB2-33-120A

Passenger Reading Lights -- Adjustment  
Figure 202/33-22-01-990-802

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**MD-80  
AIRCRAFT MAINTENANCE MANUAL  
WORK LIGHTS - MAINTENANCE PRACTICES**

**1. General**

A. The work lights consist of the galley work lights and the attendant's work lights. The galley work lights are fluorescent type located in the galley ceiling. The galley work light fixture also contains standby light installations. The attendant's work lights are incandescent type located in the passenger forward entrance door light fixture mid cabin ceiling and in the aft cabin ceiling. Emergency light installations in the forward entrance door light fixture make it necessary to place the cabin emergency lights switch in the off position and open the emergency lights arm and charge circuit breaker when working on the forward attendant's work light. The cabin emergency lights switch must be in the off position before the circuit breaker is opened to prevent energizing the emergency lights circuit.

**2. Removal/Installation Work Lights**

A. Remove Lights

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

**CAUTION:** MAKE CERTAIN CABIN EMERGENCY LIGHTS SWITCHES ARE IN OFF POSITION BEFORE OPENING EMERGENCY LIGHTS ARM AND CHARGE CIRCUIT BREAKER.

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

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-778	AFT MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS
		B1-777	FWD MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS
		B1-360	GALLEY AREA WORK LIGHTS

**OVERHEAD EMERGENCY DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 401-409, 411, 412, 414-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893</b>			
A	13	B1-42	CABIN STANDBY LIGHTS
<b>WJE 410</b>			
A	14	B1-42	CABIN STANDBY LIGHTS
<b>WJE 401-409, 411, 412, 414-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893</b>			
A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE
<b>WJE 410</b>			
A	15	B1-41	EMERGENCY LIGHTS ARM AND CHARGE

**WJE ALL**

- (2) Gain access to lamp and attaching screws.
- (3) Remove lamp.
- (4) Remove attaching screws.
- (5) Disconnect and tag electrical wiring.
- (6) Remove light fixture.

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**33-22-02**

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### B. Install Lights

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Make sure that these circuit breakers are open and have safety tags:

#### LEFT CONSOLE, GROUND SERVICE BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-778	AFT MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS
		B1-777	FWD MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS
		B1-360	GALLEY AREA WORK LIGHTS

#### OVERHEAD EMERGENCY DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 401-409, 411, 412, 414-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893</b>			
A	13	B1-42	CABIN STANDBY LIGHTS
<b>WJE 410</b>			
A	14	B1-42	CABIN STANDBY LIGHTS
<b>WJE 401-409, 411, 412, 414-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893</b>			
A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE
<b>WJE 410</b>			
A	15	B1-41	EMERGENCY LIGHTS ARM AND CHARGE

#### WJE ALL

- (2) Connect electrical wiring.  
 (3) Install fixture and attaching screws.  
 (4) Install lamp.  
 (5) Remove the safety tags and close these circuit breakers:

#### LEFT CONSOLE, GROUND SERVICE BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-778	AFT MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS
		B1-777	FWD MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS
		B1-360	GALLEY AREA WORK LIGHTS

#### OVERHEAD EMERGENCY DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 401-409, 411, 412, 414-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893</b>			
A	13	B1-42	CABIN STANDBY LIGHTS
<b>WJE 410</b>			
A	14	B1-42	CABIN STANDBY LIGHTS

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# 33-22-02

TP-80MM-WJE

Page 202  
Feb 01/2016

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**

**WJE 410 (Continued)**

(Continued)

**OVERHEAD EMERGENCY DC BUS**

**Row   Col   Number   Name**

**WJE 401-409, 411, 412, 414-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893**

A      14      B1-41      EMERGENCY LIGHTS ARM AND CHARGE

**WJE 410**

A      15      B1-41      EMERGENCY LIGHTS ARM AND CHARGE

**WJE ALL**

- (6) Place appropriate switch in ON position to check proper operation of lights.

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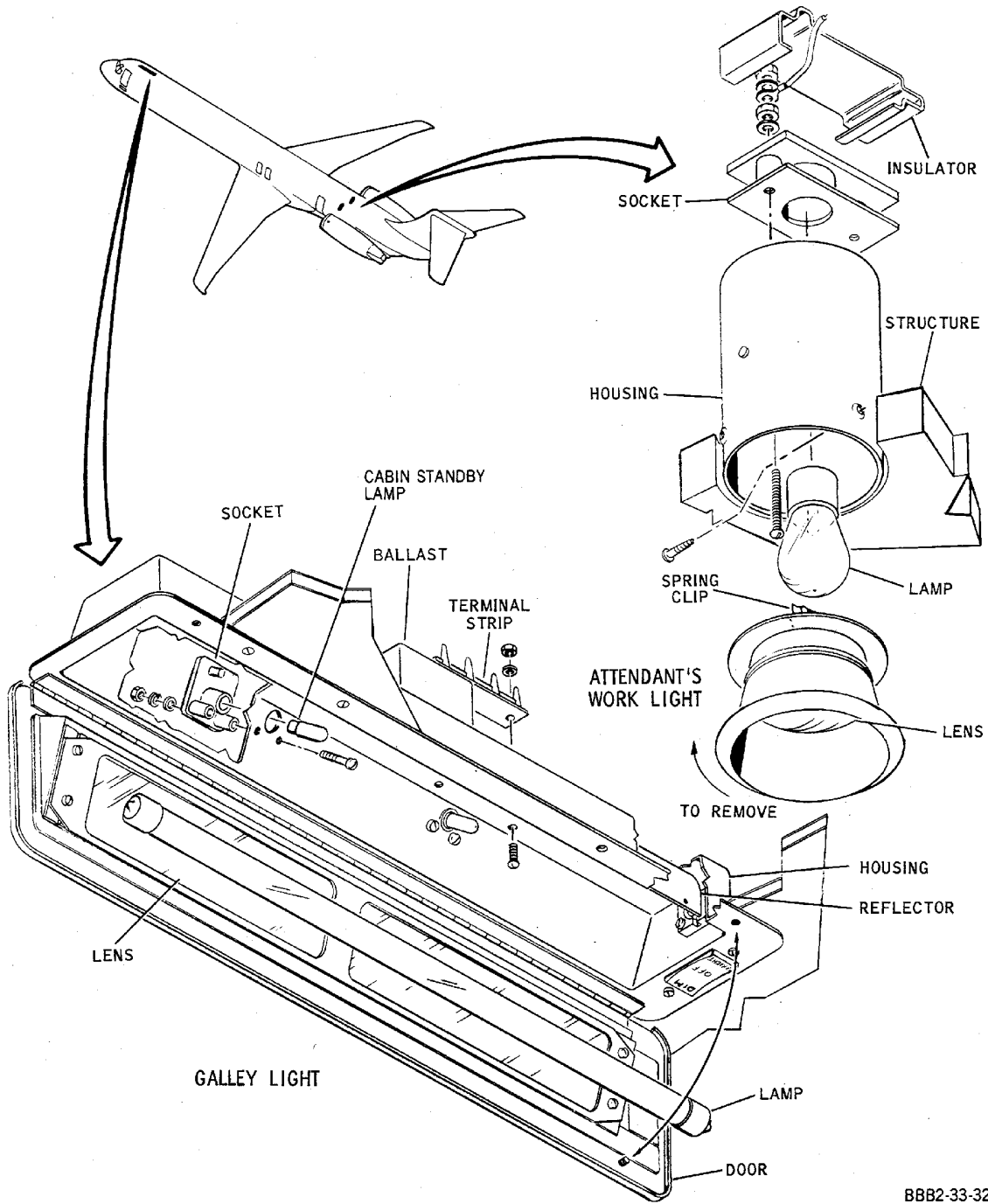
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**33-22-02**

Page 203  
Feb 01/2016



**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



B882-33-32

**Work Lights -- Removal/Installation**  
Figure 201/33-22-02-990-801

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**33-22-02**

# MD-80 AIRCRAFT MAINTENANCE MANUAL

## UTILITY AND WORK LIGHTS CIRCUIT COMPONENTS - MAINTENANCE PRACTICES

### 1. General

- A. Utility and work lights circuit components consist of the lavatory occupied switch, lavatory mirror lights dimming switch, and lavatory mirror lights ballast. The lavatory occupied switch is located in the lavatory doorjamb and is actuated by locking the lavatory door. The lavatory mirror lights dimming switch is located in the lavatory ceiling above the door and is actuated by closing the lavatory door. The lavatory mirror lights ballasts are attached to the mirror lights fixtures.

### 2. Removal/Installation Lavatory Switches

- A. Remove Lavatory Occupied Switch

**WARNING:** TAG AND SAFETY CIRCUIT BREAKERS.

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

#### **LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-778	AFT MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS
		B1-777	FWD MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS

- (2) To gain access to switch, remove switch cover plate from lavatory doorjamb.  
 (3) Disconnect and tag electrical wiring.  
 (4) Remove switch from cover plate.

- B. Install Lavatory Occupied Switch

**WARNING:** TAG AND SAFETY CIRCUIT BREAKERS.

- (1) Make sure that these circuit breakers are open and have safety tags:

#### **LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-778	AFT MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS
		B1-777	FWD MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS

- (2) Install switch on cover plate.  
 (3) Connect electrical wiring.  
 (4) Position cover plate on doorjamb and install attaching screws.  
 (5) Remove the safety tags and close these circuit breakers:

#### **LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-778	AFT MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS
		B1-777	FWD MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS

- (6) Check proper operation of switch by locking lavatory door; lavatory occupied sign should illuminate.

- C. Remove Mirror Light Dimming Switch

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**33-22-03**

## MD-80 AIRCRAFT MAINTENANCE MANUAL

**WARNING:** TAG AND SAFETY CIRCUIT BREAKERS.

- (1) Open and tag following circuit breakers applicable to lavatory where work is to be performed:

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-376	AFT LEFT LAV MIRROR LIGHTS
		B1-7	AFT RIGHT LAV MIRROR LIGHT
		B1-522	LAVATORY MIRROR LIGHTS - FWD LEFT

- (2) Gain access to switch by removing lavatory ceiling access panel.
- (3) Remove cover from bracket.
- (4) Loosen nuts on side of switch and remove switch from bracket.
- (5) Disconnect and tag electrical wiring.
- (6) Remove switch.

D. Install Mirror Light Dimming Switch

**WARNING:** TAG AND SAFETY CIRCUIT BREAKERS.

- (1) Make sure that these circuit breakers are open and have safety tags:

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-376	AFT LEFT LAV MIRROR LIGHTS
		B1-7	AFT RIGHT LAV MIRROR LIGHT
		B1-522	LAVATORY MIRROR LIGHTS - FWD LEFT

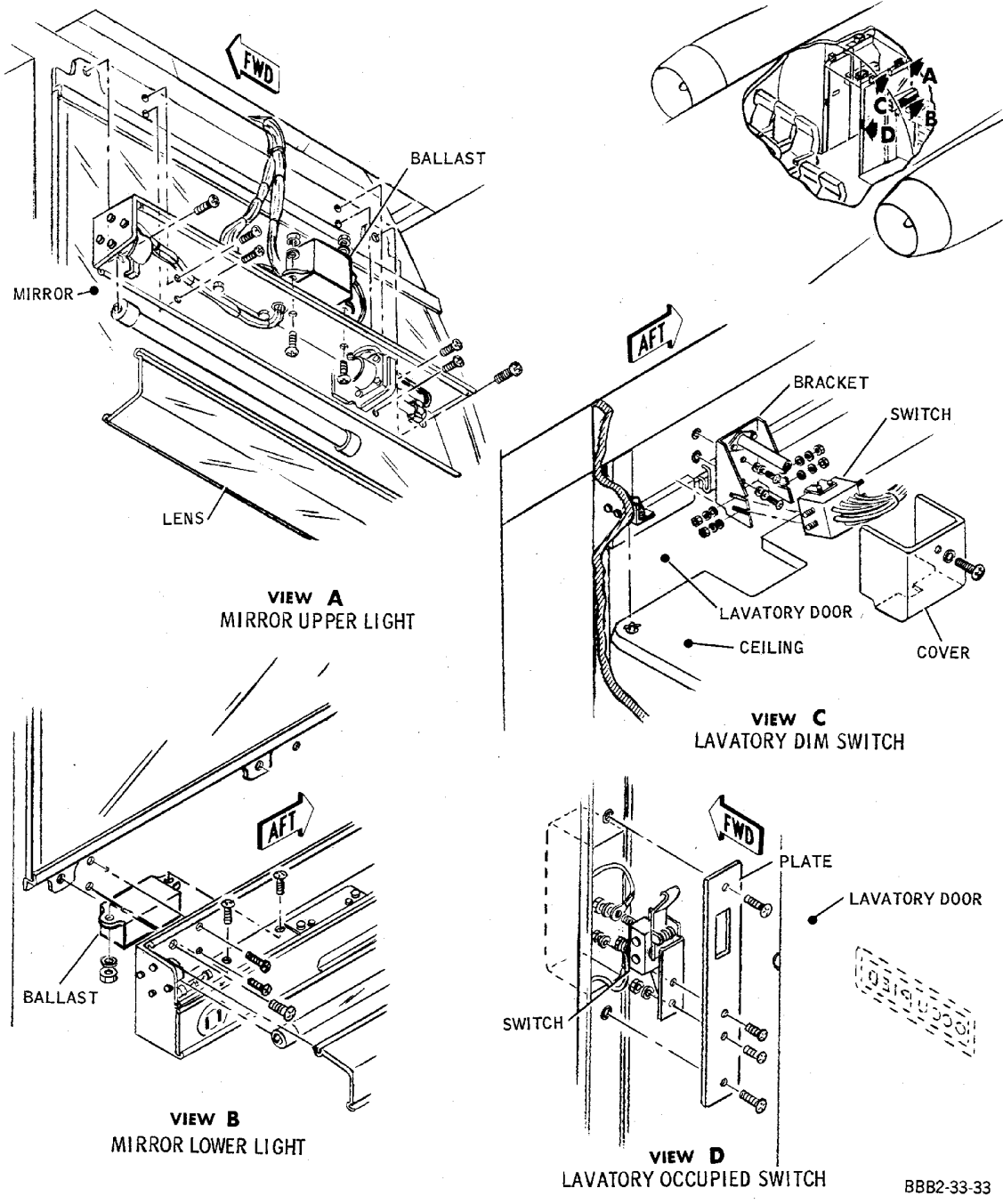
- (2) Connect electrical wiring.
- (3) Position switch on bracket to allow 1/16-inch (1.5875mm) travel beyond point of actuation when door is closed; tighten nuts.
- (4) Install cover on bracket.
- (5) Install lavatory ceiling access panel.
- (6) Remove the safety tags and close these circuit breakers:

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-376	AFT LEFT LAV MIRROR LIGHTS
		B1-7	AFT RIGHT LAV MIRROR LIGHT
		B1-522	LAVATORY MIRROR LIGHTS - FWD LEFT

- (7) Check proper operation of mirror light dimming circuit.
  - (a) Place mirror light dimming switch on attendant's panel in DIM position.
  - (b) Close lavatory door; lights should become bright.
  - (c) Open lavatory door; lights should dim.
  - (d) Place mirror light dimming switch on attendant's panel in BRIGHT position; lights should become bright.

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



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**Lavatory Mirror Lights Ballast and Switches - Removal/Installation**  
Figure 201/33-22-03-990-801

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**33-22-03**

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## MD-80 AIRCRAFT MAINTENANCE MANUAL

### 3. Removal/Installation Lavatory Mirror Lights Ballast

#### A. Remove Lavatory Mirror Lower Light Ballast

**WARNING:** TAG AND SAFETY CIRCUIT BREAKERS.

- (1) Open and tag following circuit breakers applicable to lavatory where work is to be performed:

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-376	AFT LEFT LAV MIRROR LIGHTS
		B1-7	AFT RIGHT LAV MIRROR LIGHT
		B1-522	LAVATORY MIRROR LIGHTS - FWD LEFT

- (2) Gain access to ballast by removing mirror light lens and lamp.
- (3) Disconnect and tag electrical wiring.
- (4) Remove attaching screws from ballast.
- (5) Remove ballast from fixture.

#### B. Install Lavatory Mirror Lower Light Ballast

**WARNING:** TAG AND SAFETY CIRCUIT BREAKERS.

- (1) Make sure that these circuit breakers are open and have safety tags:

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-376	AFT LEFT LAV MIRROR LIGHTS
		B1-7	AFT RIGHT LAV MIRROR LIGHT
		B1-522	LAVATORY MIRROR LIGHTS - FWD LEFT

- (2) Position ballast on mirror light fixture and secure with attaching screws.
- (3) Connect electrical wiring.
- (4) Install lamp and mirror light lens.
- (5) Remove the safety tags and close these circuit breakers:

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-376	AFT LEFT LAV MIRROR LIGHTS
		B1-7	AFT RIGHT LAV MIRROR LIGHT
		B1-522	LAVATORY MIRROR LIGHTS - FWD LEFT

- (6) Check proper operation of mirror light circuit.

#### C. Remove Lavatory Mirror Upper Light Ballast

**WARNING:** TAG AND SAFETY CIRCUIT BREAKERS.

- (1) Open and tag following circuit breakers applicable to lavatory where work is to be performed:

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-376	AFT LEFT LAV MIRROR LIGHTS
		B1-7	AFT RIGHT LAV MIRROR LIGHT
		B1-522	LAVATORY MIRROR LIGHTS - FWD LEFT

- (2) Gain access to ballast by removing mirror light lens and lamp, and lavatory ceiling panel.

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33-22-03

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**

- (3) Disconnect and tag electrical wiring.
  - (4) Remove attaching screws from ballast.
  - (5) Remove ballast from fixture.
- D. Install Lavatory Mirror Upper Light Ballast

**WARNING:** TAG AND SAFETY CIRCUIT BREAKERS.

- (1) Make sure that these circuit breakers are open and have safety tags:

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-376	AFT LEFT LAV MIRROR LIGHTS
		B1-7	AFT RIGHT LAV MIRROR LIGHT
		B1-522	LAVATORY MIRROR LIGHTS - FWD LEFT

- (2) Position ballast on light fixture and secure with attaching screws.
- (3) Connect electrical wiring.
- (4) Install mirror light lamp and lens, and lavatory ceiling panel.
- (5) Remove the safety tags and close these circuit breakers:

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-376	AFT LEFT LAV MIRROR LIGHTS
		B1-7	AFT RIGHT LAV MIRROR LIGHT
		B1-522	LAVATORY MIRROR LIGHTS - FWD LEFT

- (6) Check proper operation of lavatory mirror lights circuit (Ref. Paragraph 2.).

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**33-22-03**

Page 205  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### LIGHTED SIGNS, CABIN PANELS, AND CALL SYSTEMS - DESCRIPTION AND OPERATION

#### 1. General

- A. Lighted signs throughout the passenger compartment provide specific instructions of pertinent information for the passengers. All passenger advisory signs are electroluminescent or incandescent. The no smoking/fasten seat belts signs are controlled by switches located in the flight compartment. The return to cabin signs operate on the fasten seat belt switch circuit. The lavatory occupied signs operate from a switch installed on the lavatory door locking mechanism.
- B. The cabin attendant panels contain switches and controls for operating related electrical components located in the passenger compartment.
- C. The call system uses a combination of audible and visible signals for communication between the flight crew and attendants, passengers and attendants, and between the flight crew and mechanic. Call switches, with integral lights and reset capability are installed at each row of seats and in each lavatory. The call switches, when actuated, turn on the master call lights located in the forward and aft drop ceiling area and mid cabin panel. Specific color coding of the master call lights identifies the source of a call. The passenger call light and attendant to pilot call lights are blue; the lavatory call light, amber; the attendant to attendant, and flight compartment to attendant call light, pink. The master call lights which indicate calls, originated at a passenger seat or in a lavatory, can be reset at the calling switch. The cabin attendant to cabin attendant, and flight compartment to cabin attendant, master call lights can be reset at the forward, mid, or aft cabin attendant control panel. The attendant to pilot call light is reset at the flight compartment overhead switch panel.
- D. In conjunction with the master call lights coming on, a momentary chime tone should sound at the attendants' cabin speakers when a call switch is actuated. A call originating from a lavatory or passenger seat sounds a high (bing) tone. A call originating from an attendant's panel, or the flight compartment sounds a high-low (bing-bong) tone.

#### **WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893**

- E. Actuation of the no smoking switch will cause the no smoking signs to come on and simultaneously produce a momentary chime tone (bong) at each cabin speaker. When the no smoking switch is in the automatic mode, placing the landing gear lever in the down position will actuate the switch. Actuation of the seat belt switch will cause the fasten seat belt signs to come on and simultaneously produce a momentary chime tone (bong) at each cabin speaker. When the seat belt switch is in the automatic mode, the fasten seat belt signs will come on when the leading edge slats have extended.
- F. In the event that the cabin pressure reaches an altitude of 10,000 feet (3048 M) a high-low (bing-bong) tone should sound at the attendants' cabin speakers to provide a cabin pressure warning. If the no smoking switch or seat belt switch is in the AUTO position, the no smoking signs and fasten seat belt signs will also come on if the cabin pressure warning is activated.

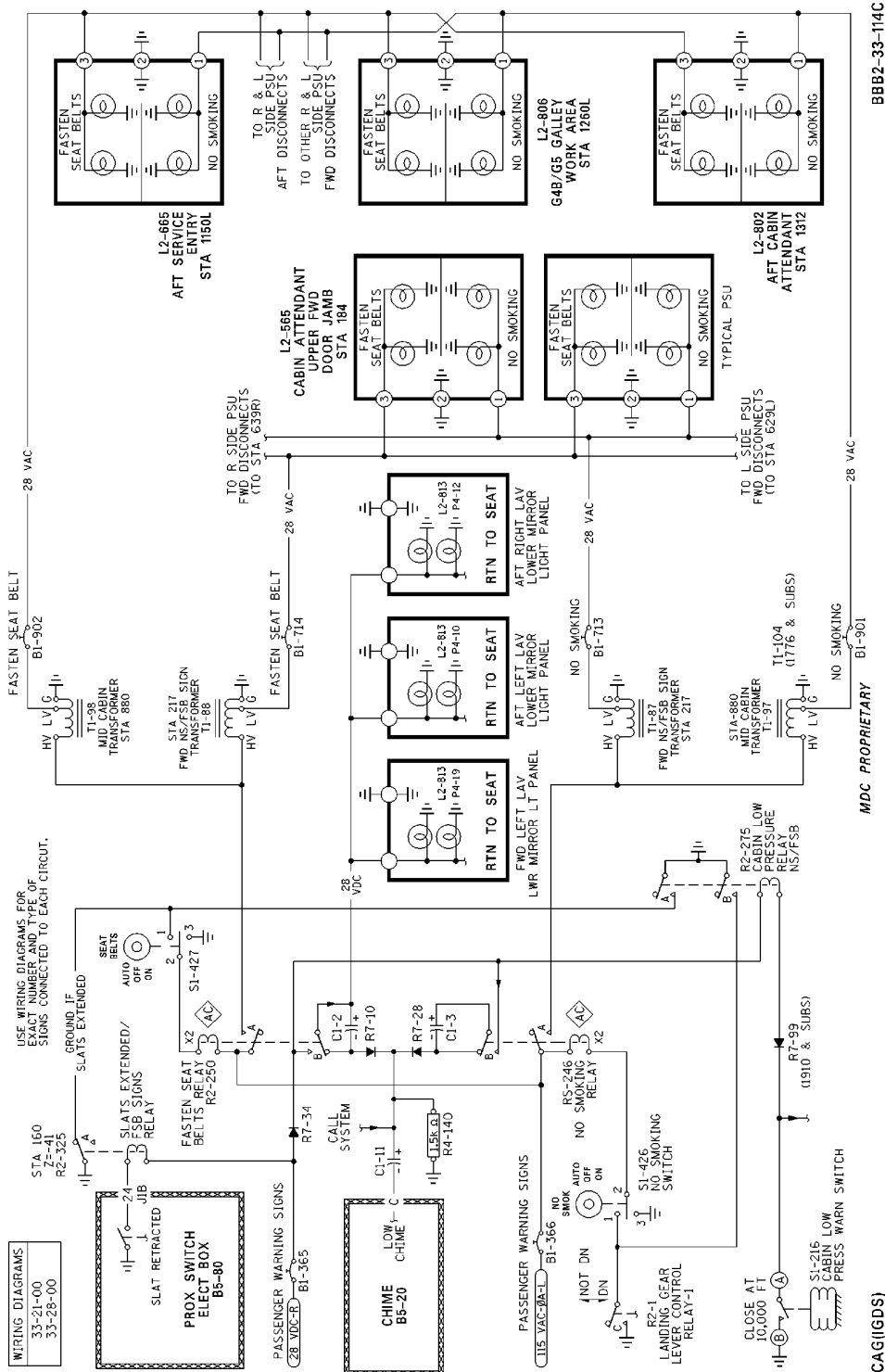
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Page 1  
Feb 01/2016

# MD-80 AIRCRAFT MAINTENANCE MANUAL



Passenger Advisory Sign -- System Schematic  
Figure 1/33-23-00-990-801 (Sheet 1 of 7)

EFFECTIVITY  
WJE 886, 887

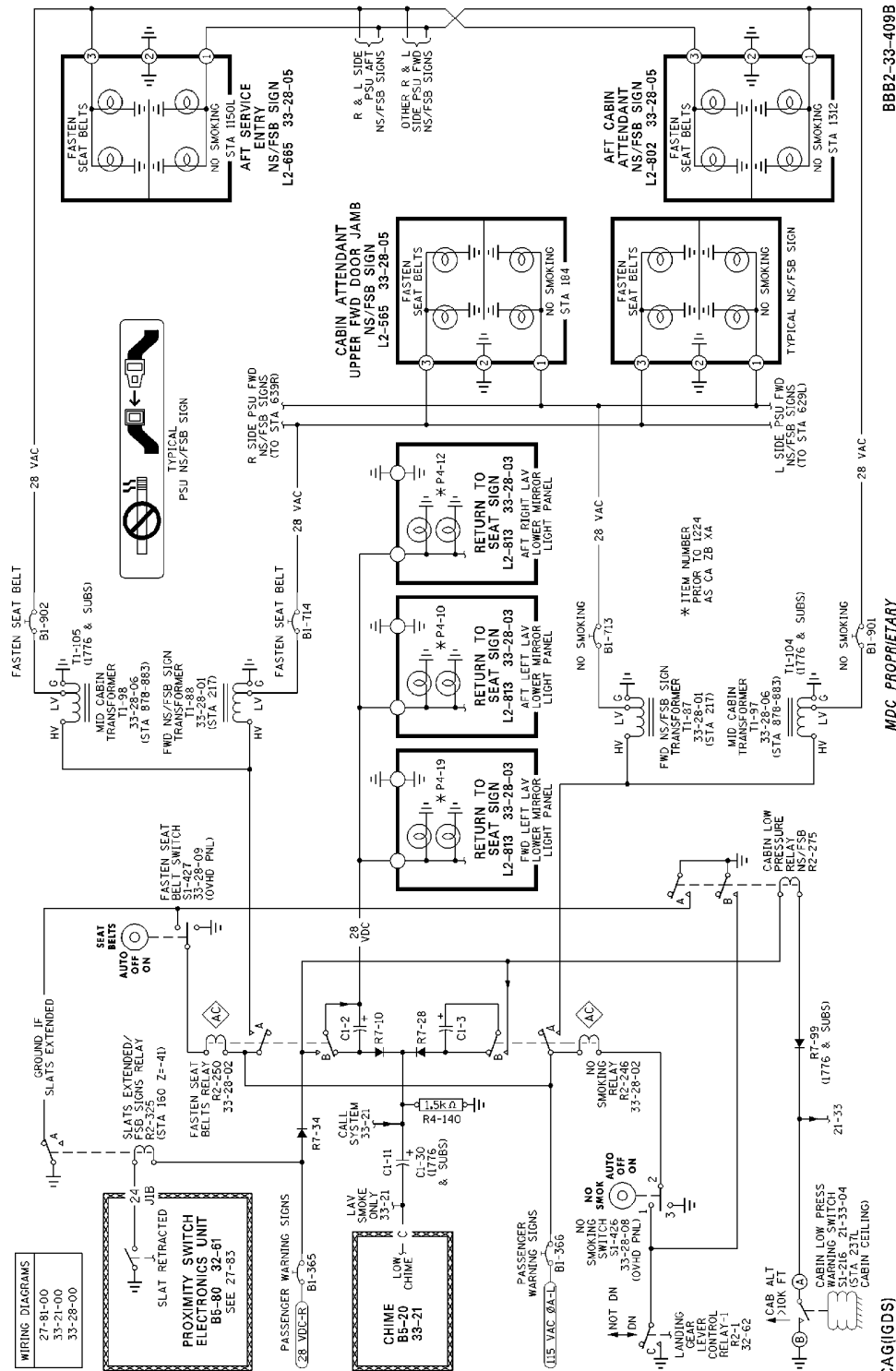
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Page 2  
Feb 01/2016



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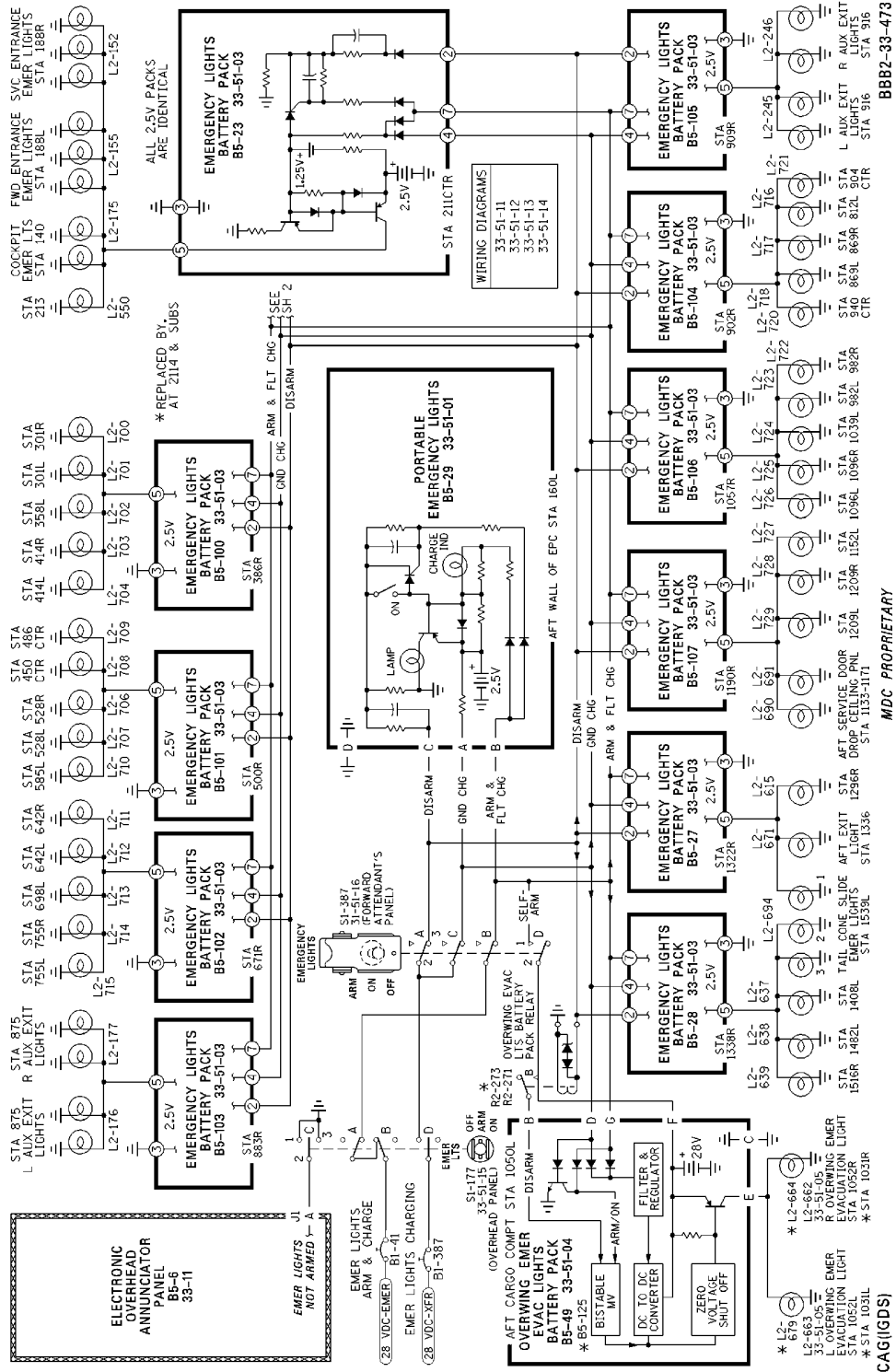
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Passenger Advisory Sign -- System Schematic  
Figure 1/33-23-00-990-801 (Sheet 2 of 7)

EFFECTIVITY  
WJE 405, 409, 410, 873, 874, 881, 883, 884, 892, 893

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## MD-80 AIRCRAFT MAINTENANCE MANUAL



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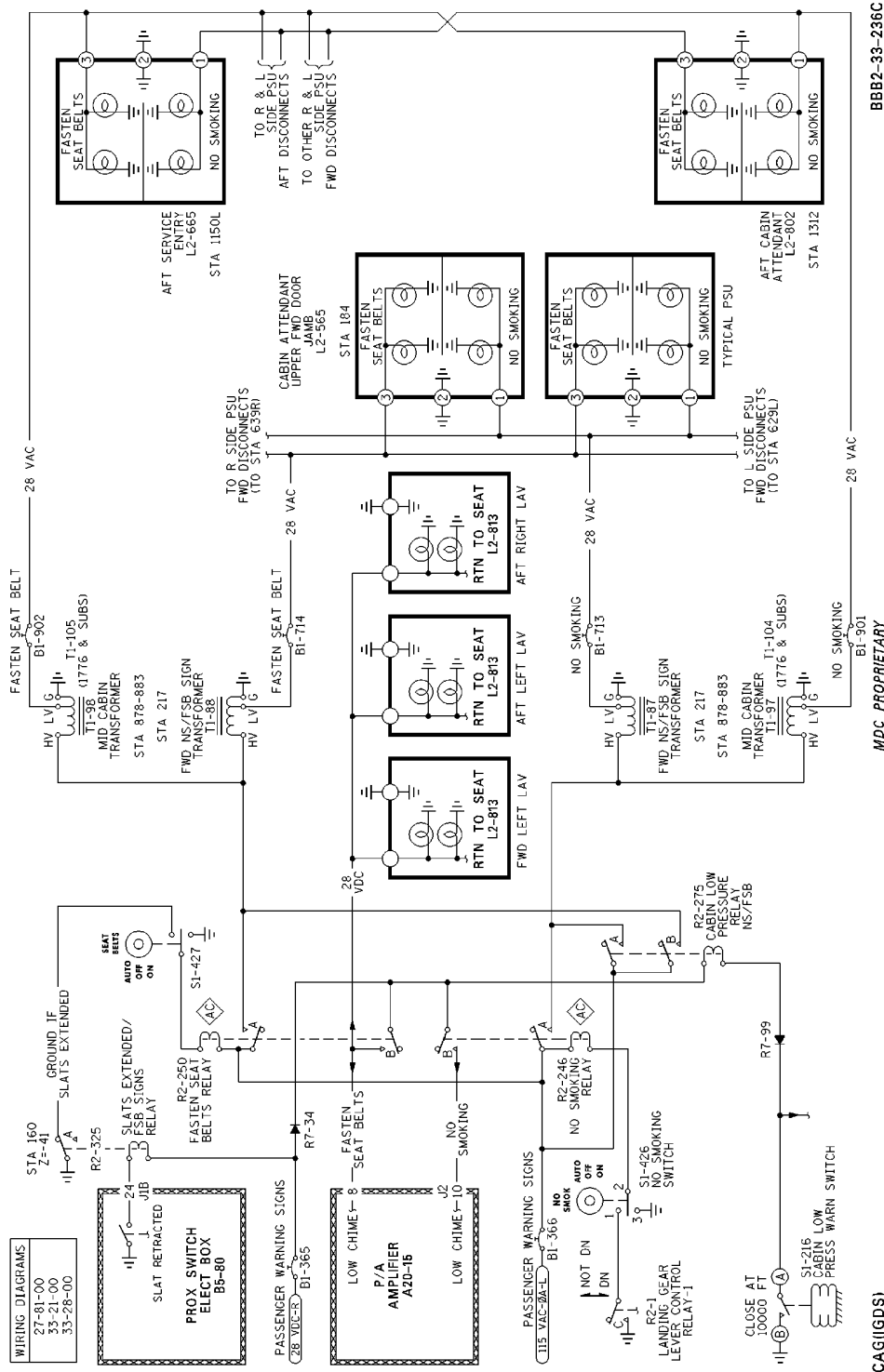
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CAG(GDS)

EFFECTIVITY  
WJE 401-404, 412, 414

**33-23-00**

# MD-80 AIRCRAFT MAINTENANCE MANUAL



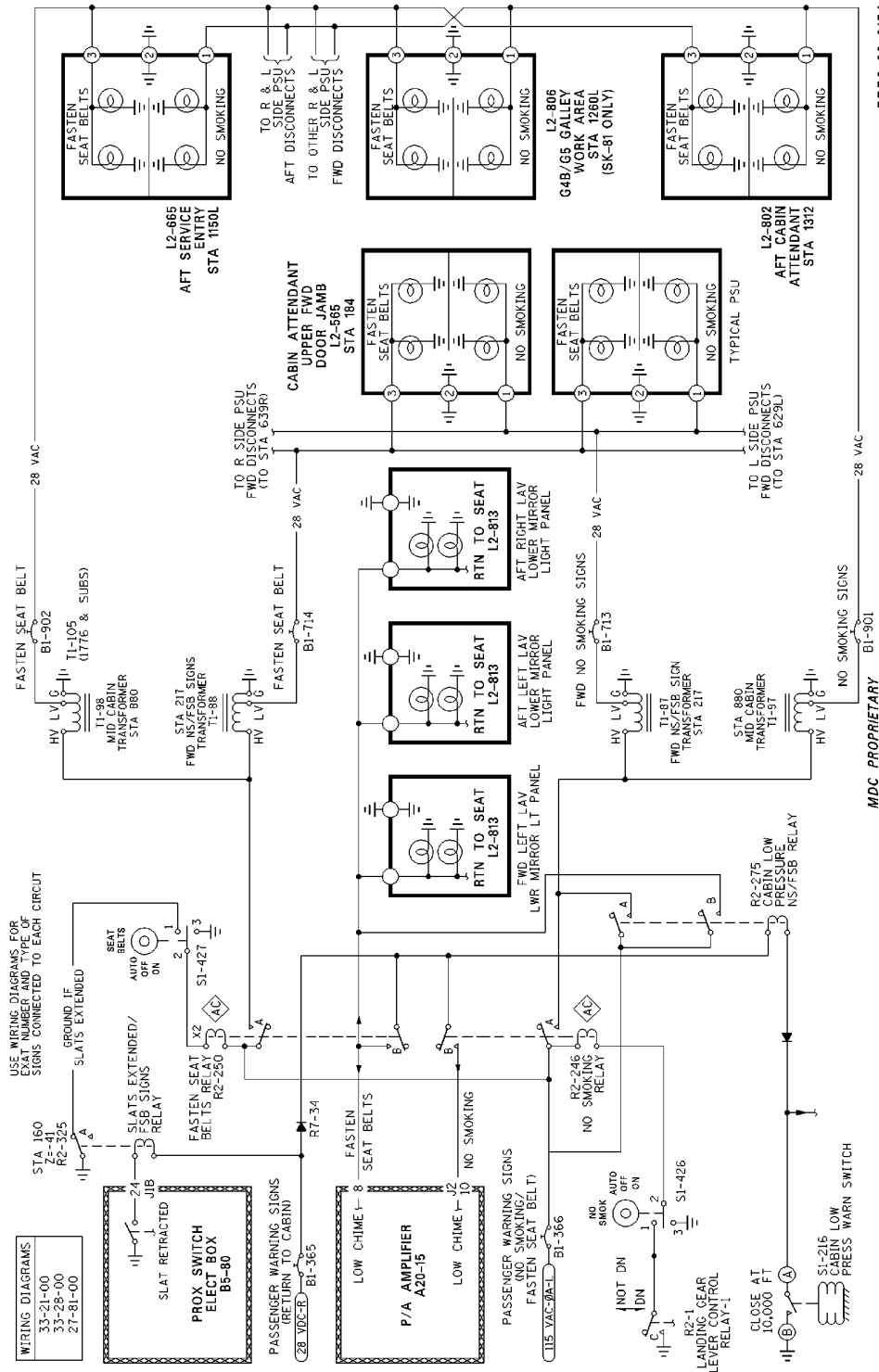
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CAG(IIGDS)

Passenger Advisory Sign -- System Schematic  
Figure 1/33-23-00-990-801 (Sheet 4 of 7)

**MD-80**  
**AIRCRAFT MAINTENANCE MANUAL**



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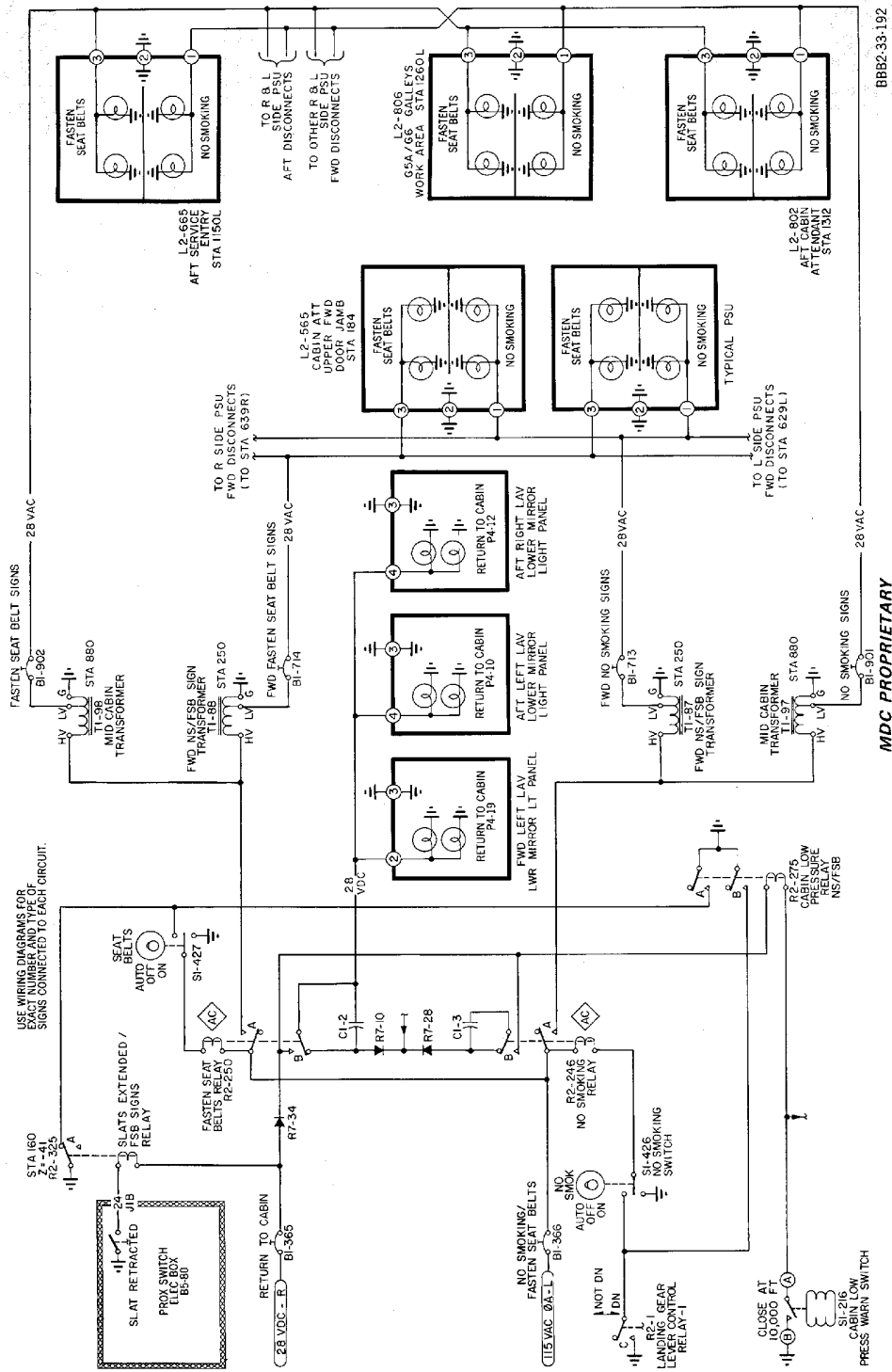
CAG(IIGDS)

**Passenger Advisory Sign -- System Schematic**  
**Figure 1/33-23-00-990-801 (Sheet 5 of 7)**

EFFECTIVITY  
WJE 415-427, 429, 861-866, 868, 869, 871, 872, 891

**33-23-00**

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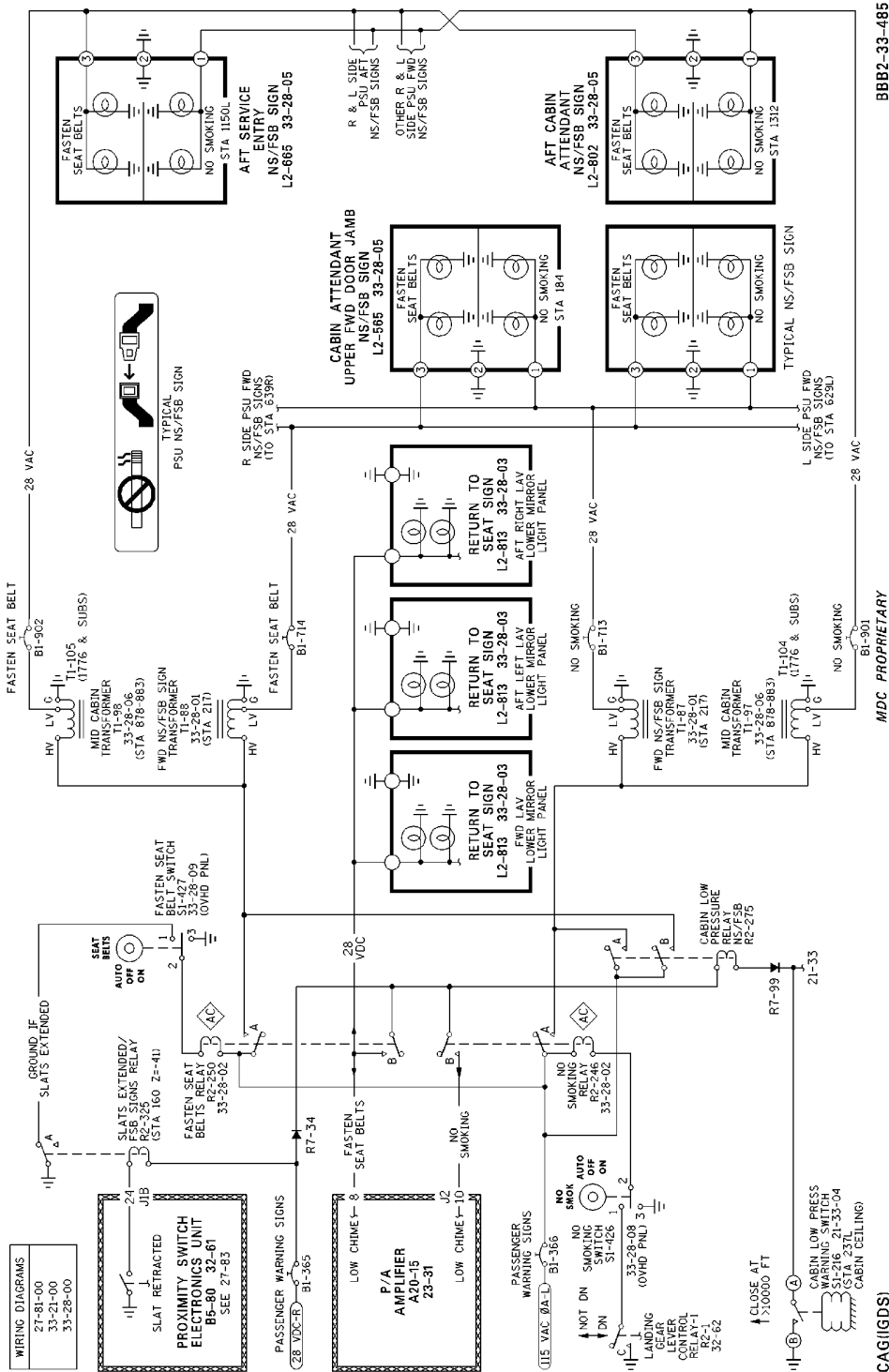
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**Passenger Advisory Sign -- System Schematic**  
Figure 1/33-23-00-990-801 (Sheet 6 of 7)

EFFECTIVITY  
WJE 407, 408, 411, 880

## 33-23-00

# MD-80 AIRCRAFT MAINTENANCE MANUAL



**Passenger Advisory Sign -- System Schematic**  
Figure 1/33-23-00-990-801 (Sheet 7 of 7)

EFFECTIVITY  
WJE ALL

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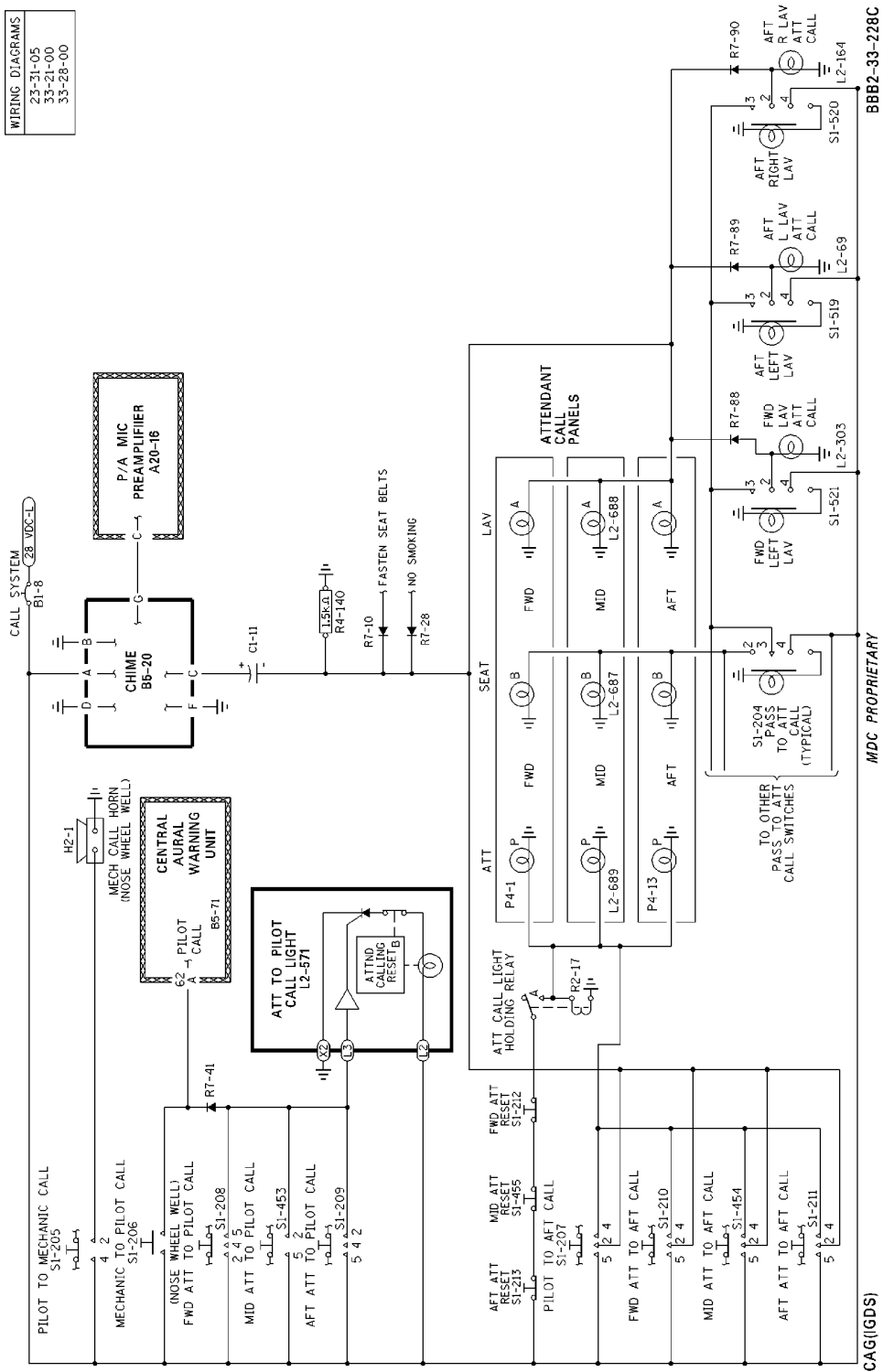
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WIRING DIAGRAMS	
23-31-05	
33-21-00	
33-28-00	

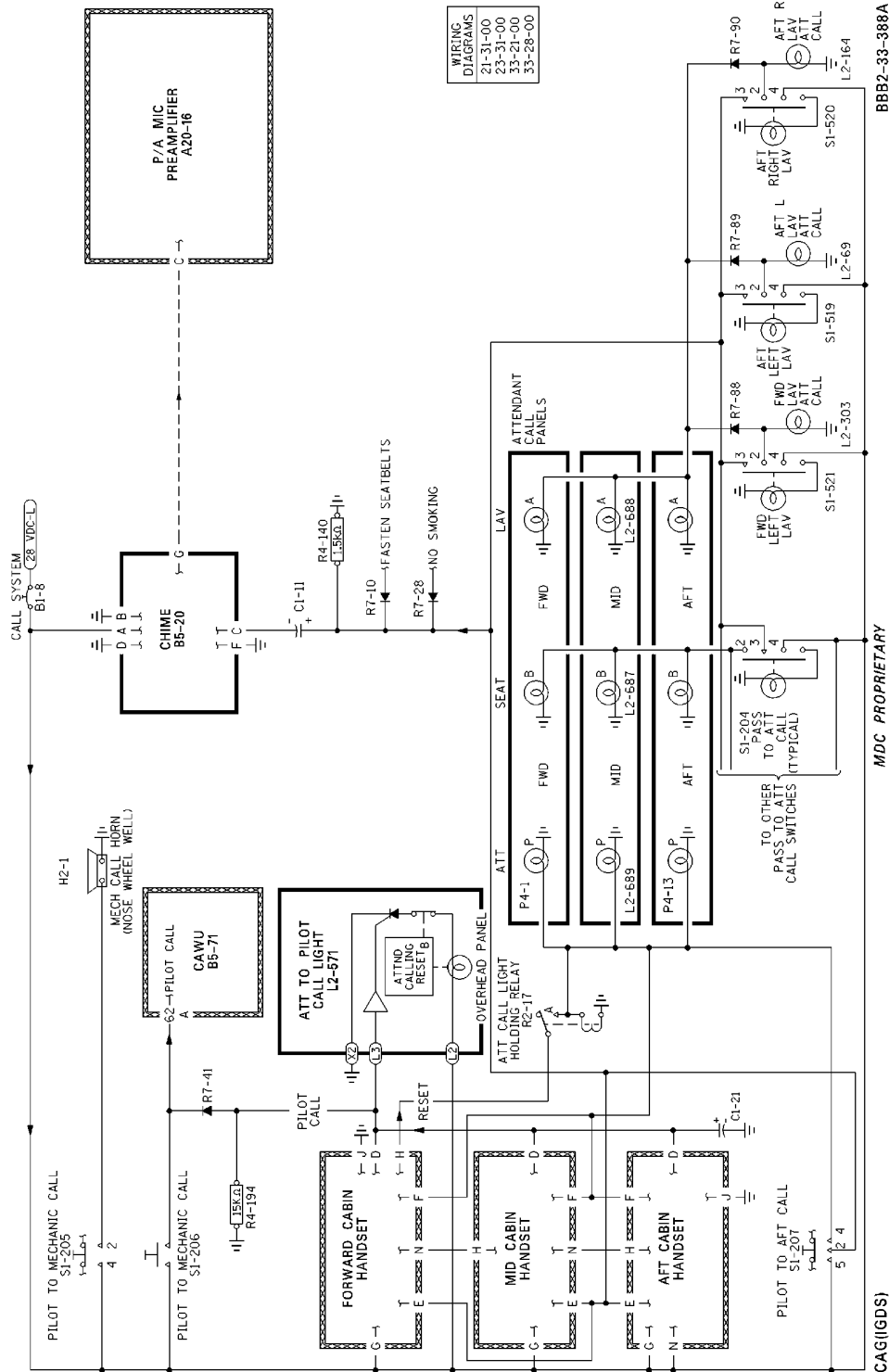


Call System -- Schematic  
Figure 2/33-23-00-990-802 (Sheet 1 of 7)

EFFECTIVITY  
WJE 405, 406, 409, 410, 881, 883, 884

33-23-00

# MD-80 AIRCRAFT MAINTENANCE MANUAL



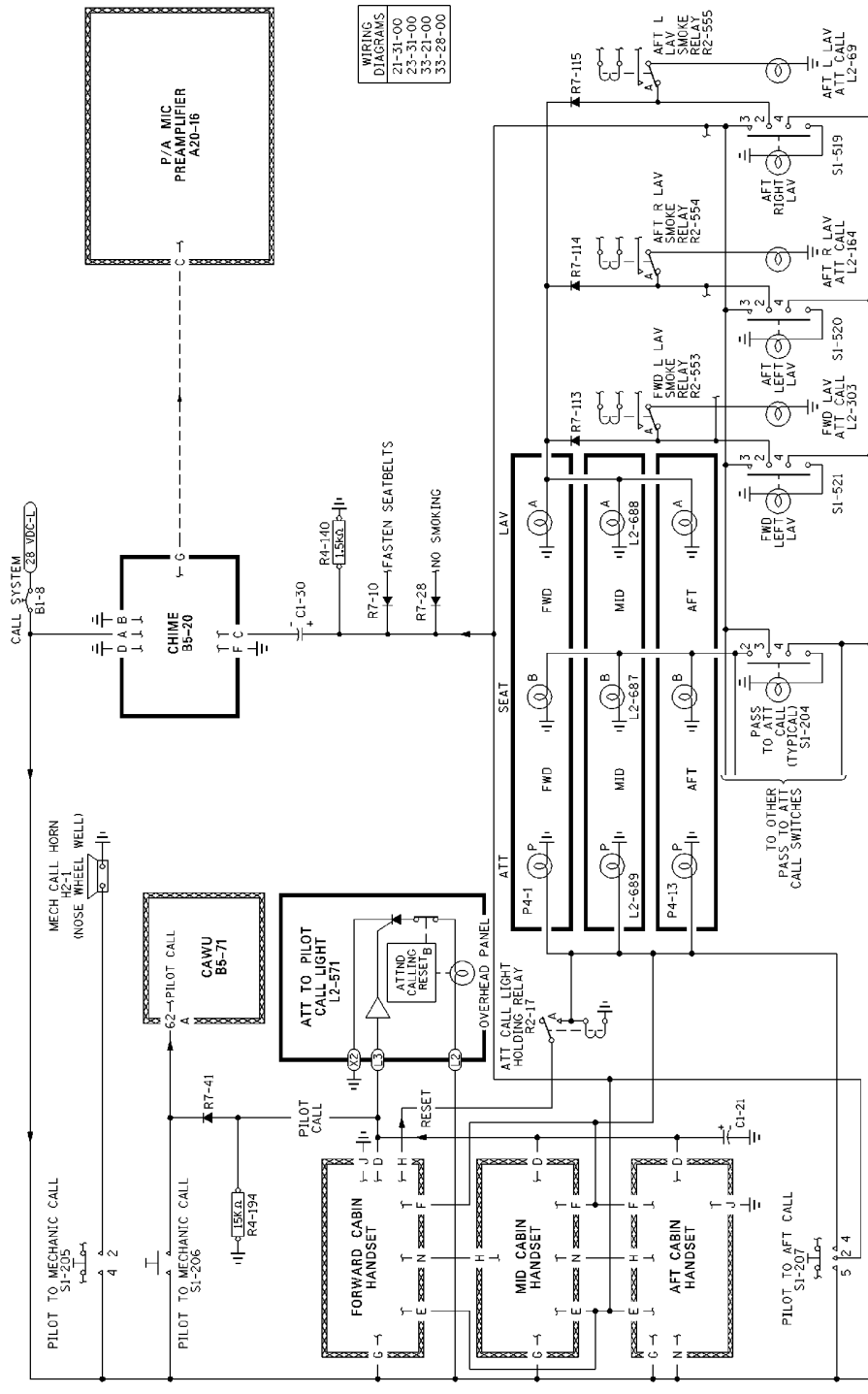
Call System -- Schematic  
 Figure 2/33-23-00-990-802 (Sheet 2 of 7)

EFFECTIVITY  
 WJE 886, 887

33-23-00



# MD-80 AIRCRAFT MAINTENANCE MANUAL



WIRING DIAGRAMS	
21-31-00	
23-31-00	
33-23-00	
33-23-00	

Call System -- Schematic  
Figure 2/33-23-00-990-802 (Sheet 3 of 7)

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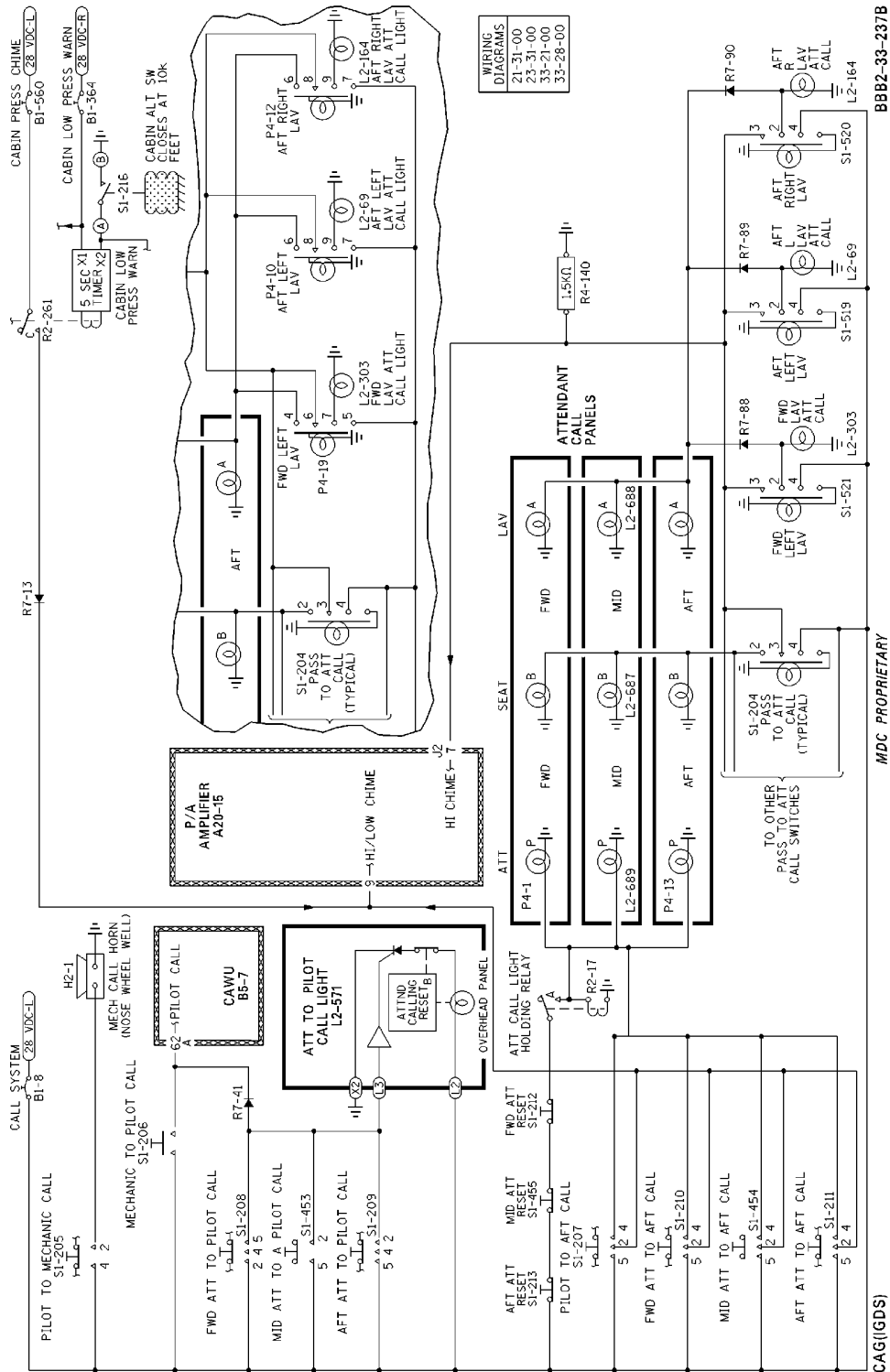
CAG(IIGDS)

EFFECTIVITY  
WJE 401-404, 410, 412, 414

33-23-00

TP-80MM-WJE

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**

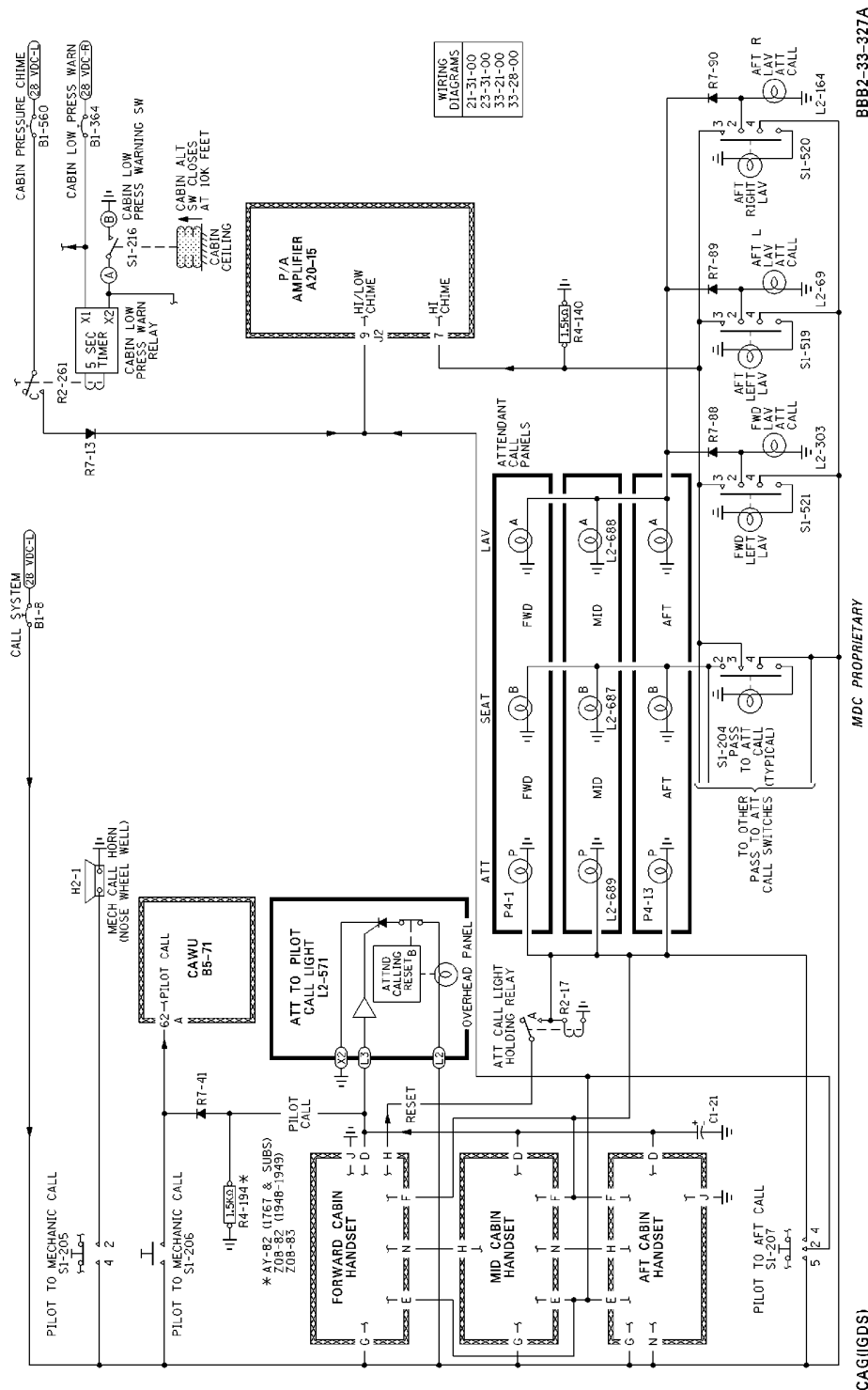


**Call System -- Schematic**  
Figure 2/33-23-00-990-802 (Sheet 4 of 7)

EFFECTIVITY  
WJE 415-427, 429, 861-866, 868, 869, 871, 872,  
875-879, 891

**33-23-00**

## MD-80 AIRCRAFT MAINTENANCE MANUAL

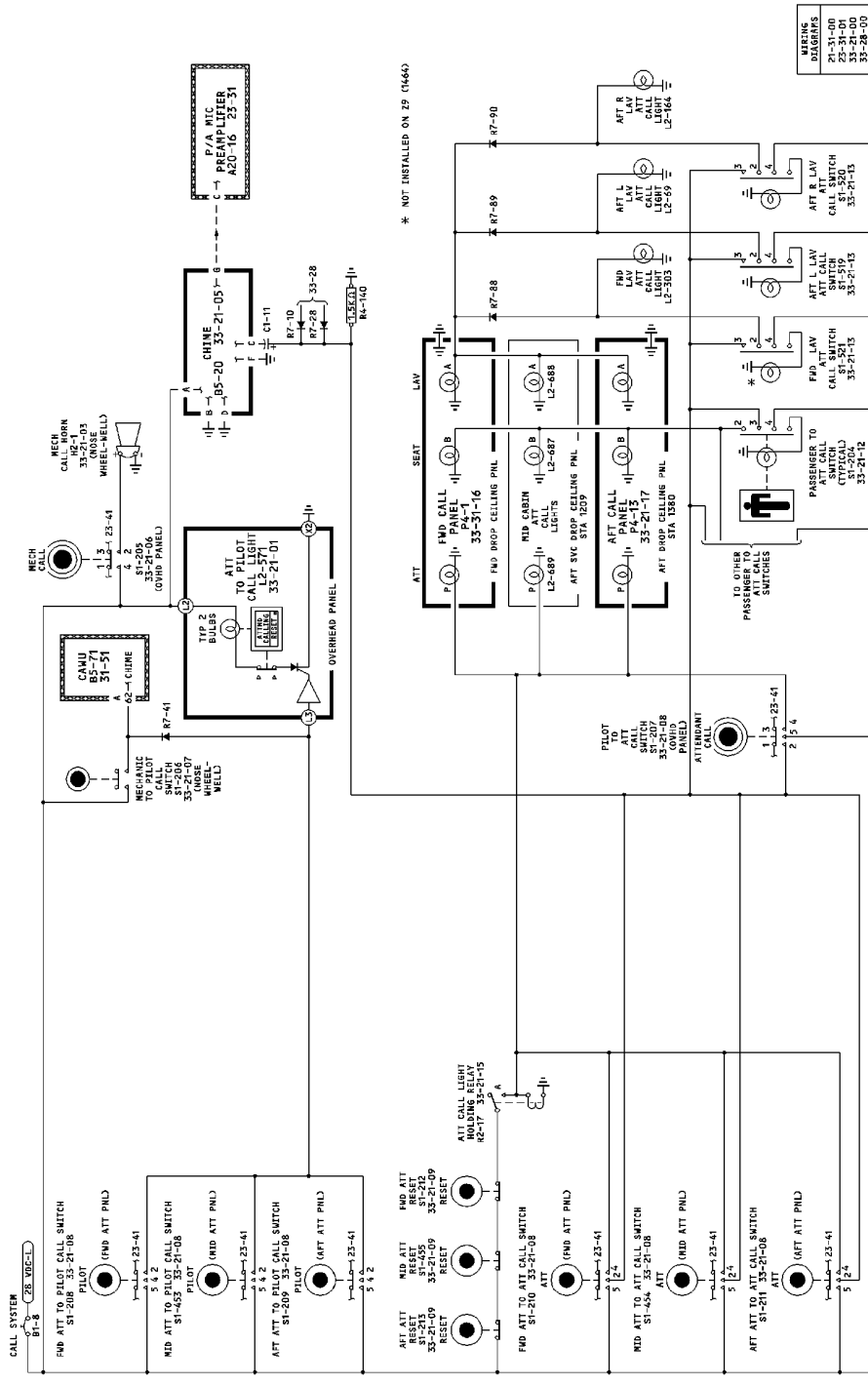


**Call System -- Schematic**  
Figure 2/33-23-00-990-802 (Sheet 5 of 7)

EFFECTIVITY  
WJE 405-411, 880, 881, 883, 884

**33-23-00**

# MD-80 AIRCRAFT MAINTENANCE MANUAL



BBB2-33-515

MDC PROPRIETARY

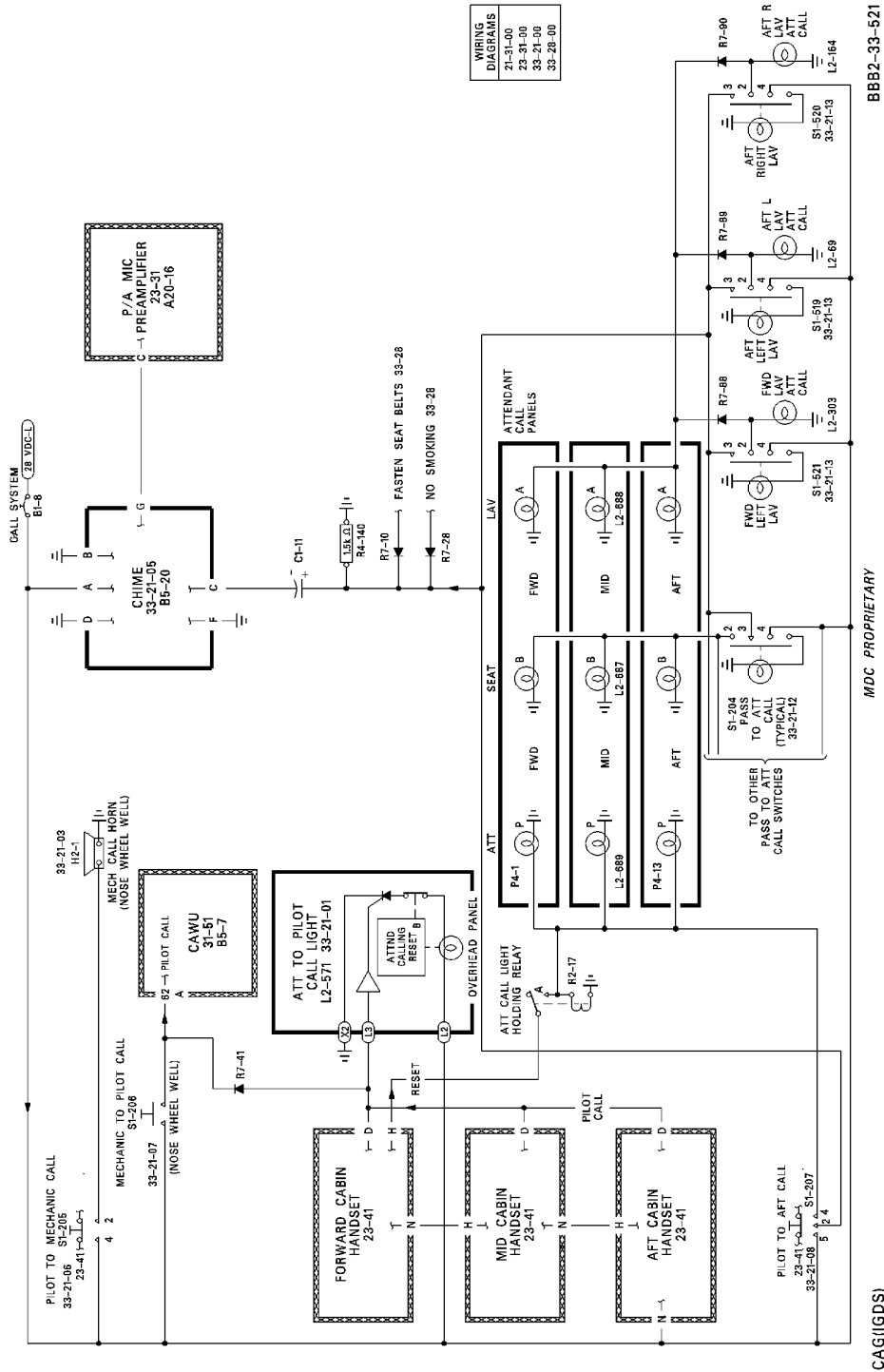
CAG(IGDS)

Call System -- Schematic  
Figure 2/33-23-00-990-802 (Sheet 6 of 7)

EFFECTIVITY  
WJE 873, 874

33-23-00

# MD-80 AIRCRAFT MAINTENANCE MANUAL



WIRING DIAGRAMS
21-21-00
23-21-00
33-21-00
33-28-00

Call System -- Schematic  
Figure 2/33-23-00-990-802 (Sheet 7 of 7)

EFFECTIVITY  
WJE 892, 893

**33-23-00**

# MD-80 AIRCRAFT MAINTENANCE MANUAL

## LIGHTED SIGNS - REMOVAL/INSTALLATION

### 1. General

- A. The following procedures provide instructions for removing and installing the lighted signs located in the passenger compartment.
- B. There are two types of lighted signs installed in the passenger compartment: incandescent and electroluminescent. Incandescent type signs can be relamped without the use of tools. Electroluminescent type signs cannot be relamped and should be replaced if any portion of the sign fails to function properly. To determine which signs can be relamped, refer to the following chart:

**WJE 401-404, 412, 414, 873-879, 892, 893**

**Table 401**

Sign	Location	Type of Sign	Relampable
No smoking/fasten seat belts	Cabin ceiling	Incandescent	Yes
Return to cabin	Lavatory light	Incandescent	Yes
Lavatory occupied	Forward face of galley sta. 1259RH	Electro-luminescent	No
	Forward face of galley sta. 1128LH	Electro-luminescent	No
	Aft face of coat- room sta. 249LH	Electro-luminescent	No

**WJE 405-411, 415-427, 429, 861-866, 868, 869, 871, 872, 880, 881, 883, 884, 886, 887, 891**

**Table 402**

Sign	Location	Type of Sign	Relampable
No smoking/fasten seat belts	Cabin ceiling	Incandescent	Yes
Return to cabin	Lavatory light	Incandescent	Yes
Lavatory occupied (MD 80-83 series aircraft)	Forward face of galley sta. 1259RH	Electro-luminescent	No
	Forward face of galley sta. 1128LH	Electro-luminescent	No
	Aft face of coat- room sta. 249LH	Electro-luminescent	No
Lavatory occupied (MD 87 series aircraft)	Forward face of aft lav sta. 1096RH	Electro-luminescent	No
	Forward face of aft lav sta. 1096LH	Electro-luminescent	No
	Aft face of coat- room sta. 273LH	Electro-luminescent	No

**WJE ALL**

### 2. Removal/Installation Lighted Signs

- A. Remove No Smoking/Fasten Seat Belts Sign

EFFECTIVITY WJE ALL
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33-23-01

TP-80MM-WJE

Page 401  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

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

**UPPER EPC, LIGHTS - LEFT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	23	B1-366	PASSENGER WARNING SIGNS

- (2) Carefully pull fixture from panel.
- (3) Release fasteners and swing lamp holder out to remove lamps.
- (4) Disconnect electrical wiring.

**B. Installation**

Install No Smoking/Fasten Seat Belts Sign

**WARNING:** TAG AND SAFETY CIRCUIT BREAKER.

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

**UPPER EPC, LIGHTS - LEFT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	23	B1-366	PASSENGER WARNING SIGNS

- (2) Connect electrical wiring to fixture.
- (3) Install lamps in lamp holders, close holders and secure with fasteners.
- (4) Position fixture in panel and check that spring tension retains fixture in panel.
- (5) Remove the safety tag and close this circuit breaker:

**UPPER EPC, LIGHTS - LEFT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	23	B1-366	PASSENGER WARNING SIGNS

- (6) Perform operational test of no smoking/fasten seat belts signs to check proper operation of circuit. (LIGHTED SIGNS - ADJUSTMENT/TEST, PAGEBLOCK 33-23-01/501)

**C. Remove Lavatory Occupied Sign**

**WARNING:** TAG AND SAFETY CIRCUIT BREAKERS.

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

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-778	AFT MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS
		B1-777	FWD MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS

- (2) Remove sign from partition by carefully prying outward directly adjacent to attaching pins.
- (3) Disconnect electrical wiring.

**D. Install Lavatory Occupied Sign**

EFFECTIVITY WJE ALL
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# 33-23-01

TP-80MM-WJE

## MD-80 AIRCRAFT MAINTENANCE MANUAL

**WARNING:** TAG AND SAFETY CIRCUIT BREAKERS.

- (1) Make sure that these circuit breakers are open and have safety tags:

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-778	AFT MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS
		B1-777	FWD MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS

- (2) Connect electrical wiring to terminals on back of sign.  
 (3) Install sign on partition by carefully applying pressure on area of attaching pins.  
 (4) Remove the safety tags and close these circuit breakers:

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-778	AFT MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS
		B1-777	FWD MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS

- (5) Check proper operation of circuit by closing and locking lavatory door; sign should come on.

E. Remove Return to Cabin Sign

**WARNING:** TAG AND SAFETY CIRCUIT BREAKERS.

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

**FWD CABIN LIGHTS CBP**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-712	RAZOR OUTLET

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-376	AFT LEFT LAV MIRROR LIGHTS
		B1-7	AFT RIGHT LAV MIRROR LIGHT
		B1-522	LAVATORY MIRROR LIGHTS - FWD LEFT

**LOWER EPC, MISCELLANEOUS LEFT DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
P	37	B1-8	CALL SYSTEM

**UPPER EPC, LIGHTS - LEFT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	23	B1-366	PASSENGER WARNING SIGNS

**UPPER EPC, POWER - RIGHT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 415-427, 429, 861-866, 868, 869, 871, 872, 891</b>			
L	6	B1-526	RAZOR OUTLETS FWD
<b>WJE 401-412, 414, 873-881, 883, 884, 886, 887, 892, 893</b>			
L	6	B1-912	RAZOR OUTLETS FWD & AFT

EFFECTIVITY WJE ALL	
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33-23-01



## MD-80 AIRCRAFT MAINTENANCE MANUAL

WJE 401-412, 414, 873-881, 883, 884, 886, 887, 892, 893 (Continued)

(Continued)

### UPPER EPC, POWER - RIGHT AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 415-427, 429, 861-866, 868, 869, 871, 872, 891</b>			
L	7	B1-367	RAZOR OUTLETS AFT

### WJE ALL

- (2) Remove lens from lavatory mirror lower light.
- (3) Remove fluorescent lamp.
- (4) Remove return to cabin light socket attaching screws, and remove socket from mirror light.
- (5) Remove return to cabin light socket attaching screws, and remove socket assembly from mirror light.
- (6) Disconnect electrical wiring.

F. Install Return to Cabin Sign

### **WARNING: TAG AND SAFETY CIRCUIT BREAKERS.**

- (1) Make sure that these circuit breakers are open and have safety tags:

### LEFT CONSOLE, GROUND SERVICE BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-376	AFT LEFT LAV MIRROR LIGHTS
		B1-7	AFT RIGHT LAV MIRROR LIGHT
		B1-522	LAVATORY MIRROR LIGHTS - FWD LEFT

### LOWER EPC, MISCELLANEOUS LEFT DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
P	37	B1-8	CALL SYSTEM

### UPPER EPC, LIGHTS - LEFT AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	23	B1-366	PASSENGER WARNING SIGNS

### UPPER EPC, POWER - RIGHT AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 415-427, 429, 861-866, 868, 869, 871, 872, 891</b>			
L	6	B1-526	RAZOR OUTLETS FWD
L	7	B1-367	RAZOR OUTLETS AFT

### WJE ALL

- (2) Connect electrical wiring to light sockets.
- (3) Position return to cabin light socket in lavatory mirror lower light and install attaching screws.
- (4) Install fluorescent lamp.
- (5) Install lens.

EFFECTIVITY  
WJE ALL

# 33-23-01

TP-80MM-WJE

Page 404  
Feb 01/2016

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**

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

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-376	AFT LEFT LAV MIRROR LIGHTS
		B1-7	AFT RIGHT LAV MIRROR LIGHT
		B1-522	LAVATORY MIRROR LIGHTS - FWD LEFT

**LOWER EPC, MISCELLANEOUS LEFT DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
P	37	B1-8	CALL SYSTEM

**UPPER EPC, LIGHTS - LEFT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	23	B1-366	PASSENGER WARNING SIGNS

**UPPER EPC, POWER - RIGHT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 415-427, 429, 861-866, 868, 869, 871, 872, 891</b>			
L	6	B1-526	RAZOR OUTLETS FWD
L	7	B1-367	RAZOR OUTLETS AFT

**WJE ALL**

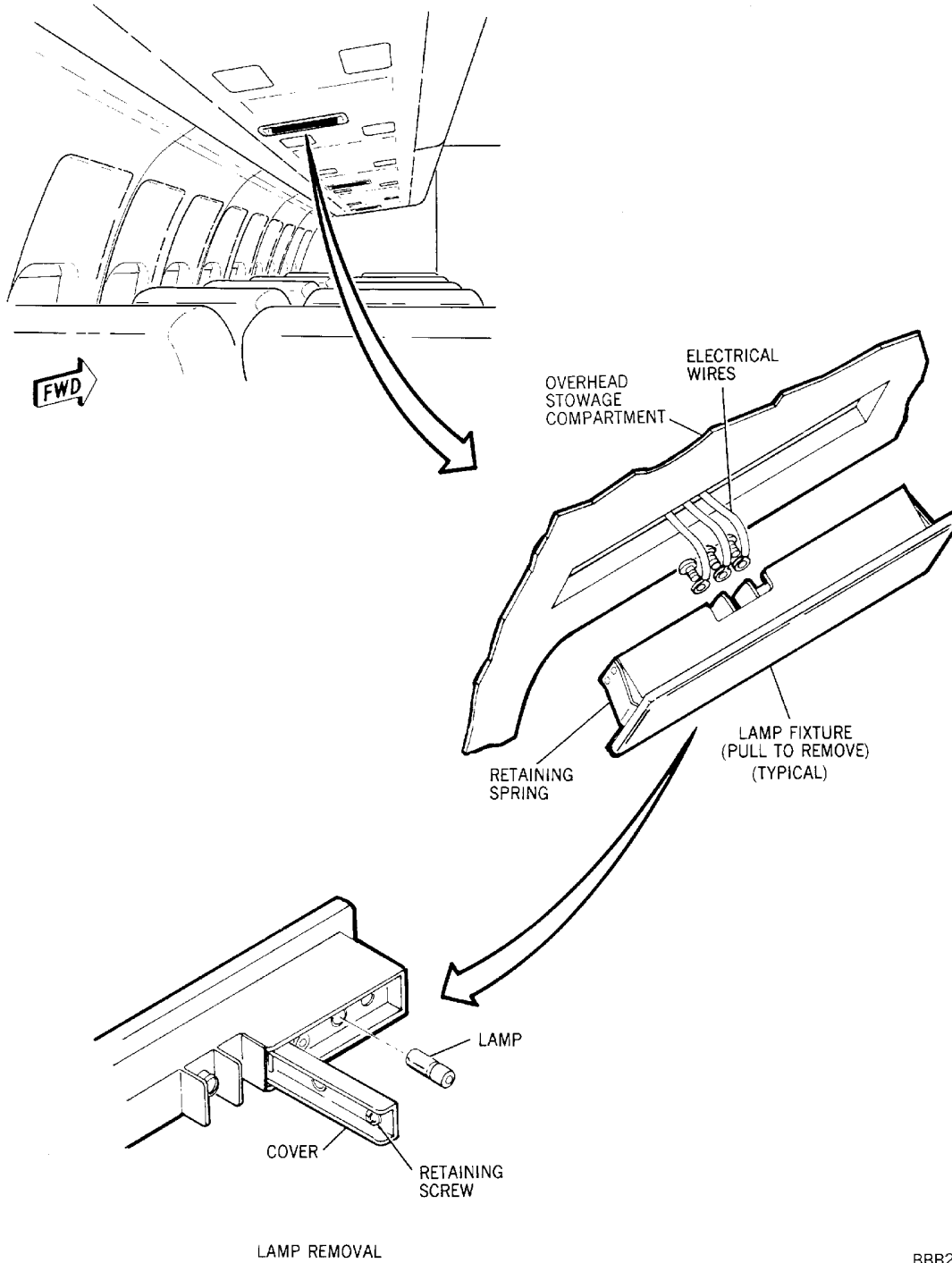
- (7) Place FASTEN SEAT BELTS switch in ON position to check proper operation of return to cabin signs; signs should come on.

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

**33-23-01**

# MD-80 AIRCRAFT MAINTENANCE MANUAL



BBB2-33-37A

**Auxiliary No Smoking/Fasten Seat Belts Signs -- Removal/Installation**  
**Figure 401/33-23-01-990-802**

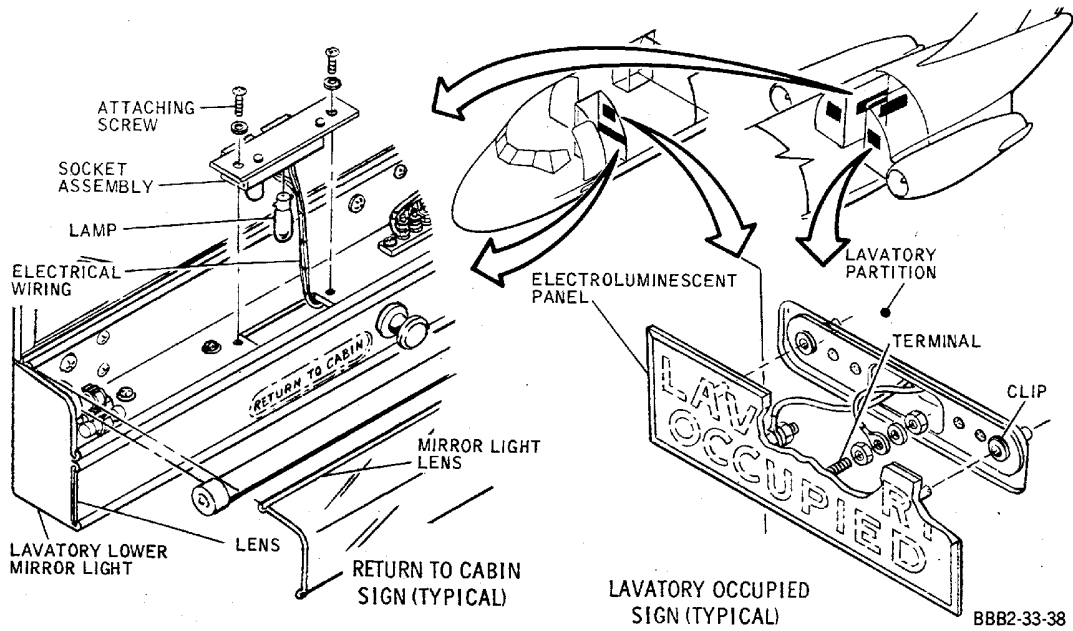
EFFECTIVITY  
WJE ALL

## 33-23-01

TP-80MM-WJE

Page 406  
Feb 01/2015

# MD-80 AIRCRAFT MAINTENANCE MANUAL



**Return To Cabin and Lavatory Occupied Signs -- Removal/Installation**  
**Figure 402/33-23-01-990-803**

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

**33-23-01**

Page 407  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### LIGHTED SIGNS - ADJUSTMENT/TEST

#### 1. General

- A. The following procedures provide an operational test of the lighted signs located in the passenger compartment.

**WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893**

#### 2. Adjustment/Test Lighted Signs

- A. No Smoking/Fasten Seat Belts Signs - Operational Test

**WJE 415-427, 429, 861-866, 868, 869, 871, 872, 891**

- (1) Place NO SMOKING switch in ON position.

**WJE 401-411, 873-881, 883, 884, 886, 887, 892, 893**

- (2) Place NO SMOK switch in ON position.

**WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893**

- (3) Check that NO SMOKING signs come on.

- (4) Test AUTO position of NO SMOKING switch:

- (a) Check that landing gear control lever is in down position.

**WJE 415-427, 429, 861-866, 868, 869, 871, 872, 891**

- (b) Place NO SMOKING switch in AUTO position.

**WJE 401-411, 873-881, 883, 884, 886, 887, 892, 893**

- (c) Place NO SMOK switch in AUTO position.

**WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893**

- (d) Check that NO SMOKING signs remain on.

**WJE 415-427, 429, 861-866, 868, 869, 871, 872, 891**

- (5) Place FASTEN SEAT BELTS switch in ON position; FASTEN SEAT BELTS signs should come on.

- (6) Place NO SMOKING and FASTEN SEAT BELTS switches to OFF position.

**WJE 401-411, 873-881, 883, 884, 886, 887, 892, 893**

- (7) Place SEAT BELTS switch in ON position; FASTEN SEAT BELTS signs should come on.

- (8) Test AUTO position of SEAT BELTS switch:

- (a) Check that slat handle is in extended position.

- (b) Place SEAT BELTS switch in AUTO position.

- (c) Check that FASTEN SEAT BELTS signs remain on.

- (9) Place NO SMOK and SEAT BELTS switches to OFF position.

**WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893**

- B. Return to Cabin Signs - Operational Test

- (1) Place FASTEN SEAT BELTS switch in ON position.

- (2) Check that RETURN TO CABIN sign in each lavatory comes on.

- (3) Place FASTEN SEAT BELTS switch to OFF position.

- C. Lavatory Occupied Signs - Operational Test

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

**33-23-01**

Page 501  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893 (Continued)

- (1) Close and lock lavatory door.
- (2) Check that respective LAVATORY OCCUPIED sign comes on.
- (3) Perform steps (1) and (2) at each lavatory.

WJE 412, 414

### 3. Adjustment/Test Lighted Signs

#### A. Lavatory Occupied Signs - Operational Test

- (1) Close and lock lavatory door.
- (2) Check that respective LAVATORY OCCUPIED sign comes on.
- (3) Perform steps (1) and (2) at each lavatory.

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

**33-23-01**

Page 502  
Feb 01/2016

**MD-80**  
**AIRCRAFT MAINTENANCE MANUAL**  
**CABIN PANELS - MAINTENANCE PRACTICES**

**1. General**

- A. The following procedures provide instructions for removing and installing the forward, mid and aft cabin attendant panels. Before performing maintenance on any component of a cabin panel, all circuit breakers relating to that panel must be opened to prevent electrical arcing.
- B. The cabin panels do not incorporate a quick-disconnect feature; therefore, if complete removal of a panel is desired, each component of that panel must be disconnected individually.
- C. To prevent inadvertent activation of the emergency lights circuit, the emergency lights switches, on the overhead switch panel and the forward attendant's panel, must be in the off position before the emergency lights arm and charge circuit breaker is opened.

**2. Removal/Installation Cabin Panels**

- A. Remove Cabin Panel/Component  
 (Figure 201)

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

**CAUTION:** MAKE CERTAIN CABIN EMERGENCY LIGHTS SWITCHES ARE IN OFF POSITION BEFORE OPENING EMERGENCY LIGHTS ARM AND CHARGE CIRCUIT BREAKER.

- (1) Open these circuit breakers and install safety tags for forward attendant's panel:

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-777	FWD MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS
		B1-522	LAVATORY MIRROR LIGHTS - FWD LEFT
		B1-699	SIDEWALL LIGHTS - LOWER CONTROL
		B1-703	SIDEWALL LIGHTS - UPPER CONTROL

**LOWER EPC, DC TRANSFER BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	34	B1-381	FWD PASSENGER ENTRANCE STAIR CARRIAGE MOTORS-1
Z	35	B1-382	FWD PASSENGER ENTRANCE STAIR CARRIAGE MOTORS-2
Z	36	B1-379	FWD PASSENGER ENTRANCE STAIR CONTROL
Z	37	B1-387	EMERGENCY LIGHTS CHARGING

**LOWER EPC, MISCELLANEOUS LEFT DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
P	37	B1-8	CALL SYSTEM

**LOWER EPC, MISCELLANEOUS RIGHT DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
R	24	B1-124	DOOR WARNING

**EFFECTIVITY**

WJE 405, 409, 416, 420, 422, 424-427, 429, 861, 862, 868, 873-879, 884, 891

TP-80MM-WJE

**33-23-02**

Config 1  
 Page 201  
 Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### OVERHEAD BATT DIR BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	16	B1-383	FWD PASSENGER ENTRANCE STAIR CONTROL
A	17	B1-385	FWD PASSENGER ENTRANCE STAIR CARRIAGE MOTORS-1
A	18	B1-386	FWD PASSENGER ENTRANCE STAIR CARRIAGE MOTORS-2

### OVERHEAD EMERGENCY DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	8	B10-118	PASSENGER ADDRESS
A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE

### UPPER EPC, LEFT RADIO AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	19	B10-120	PASSENGER MUSIC

### UPPER EPC, LEFT RADIO DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
G	19	B10-121	PASSENGER MUSIC

### UPPER EPC, RIGHT RADIO DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
G	8	B10-65	SERVICE INTERPHONE

Open these circuit breakers and install safety tags for aft attendant's panel:

### LEFT CONSOLE, GROUND SERVICE BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-376	AFT LEFT LAV MIRROR LIGHTS
		B1-778	AFT MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS
		B1-7	AFT RIGHT LAV MIRROR LIGHT

### LOWER EPC, MISCELLANEOUS LEFT DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
P	37	B1-8	CALL SYSTEM

### OVERHEAD EMERGENCY DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	8	B10-118	PASSENGER ADDRESS
A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE

### UPPER EPC, RIGHT RADIO DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
G	8	B10-65	SERVICE INTERPHONE

#### EFFECTIVITY

WJE 405, 409, 416, 420, 422, 424-427, 429, 861, 862, 868, 873-879, 884, 891

TP-80MM-WJE



## MD-80 AIRCRAFT MAINTENANCE MANUAL

Open these circuit breakers and install safety tags for mid cabin attendant's panel:

### LEFT CONSOLE, GROUND SERVICE BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-778	AFT MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS
		B1-360	GALLEY AREA WORK LIGHTS

### LOWER EPC, MISCELLANEOUS LEFT DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
P	37	B1-8	CALL SYSTEM

### UPPER EPC, RIGHT RADIO DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
G	8	B10-65	SERVICE INTERPHONE

- (2) Remove control knobs from face of panel.
- (3) Remove face plate by carefully prying adjacent to attaching pins.
- (4) For forward panel only, remove electrical power center partition, release fasteners, and swing cabin panel open.

**CAUTION:** TO PREVENT DAMAGE TO WIRING, SUPPORT CABIN PANEL WHEN ATTACHING SCREWS ARE REMOVED.

- (5) For aft panel only, support panel and remove attaching screws.
  - (6) For mid cabin panel only, remove cover attaching screws, swing cover up and remove. Release fasteners and swing lower portion of panel down. Support panel and remove attaching nuts and screws.
  - (7) Disconnect electrical wiring from component to be removed.
  - (8) Remove component attaching screws and remove component.
- B. Install Cabin Panel/Component
- (1) Make certain these circuit breakers are open and safety tags installed for forward attendant's panel:

### LEFT CONSOLE, GROUND SERVICE BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-777	FWD MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS
		B1-522	LAVATORY MIRROR LIGHTS - FWD LEFT
		B1-699	SIDEWALL LIGHTS - LOWER CONTROL
		B1-703	SIDEWALL LIGHTS - UPPER CONTROL

### LOWER EPC, DC TRANSFER BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	34	B1-381	FWD PASSENGER ENTRANCE STAIR CARRIAGE MOTORS-1
Z	35	B1-382	FWD PASSENGER ENTRANCE STAIR CARRIAGE MOTORS-2
Z	36	B1-379	FWD PASSENGER ENTRANCE STAIR CONTROL
Z	37	B1-387	EMERGENCY LIGHTS CHARGING

#### EFFECTIVITY

WJE 405, 409, 416, 420, 422, 424-427, 429, 861, 862, 868, 873-879, 884, 891

# 33-23-02

Config 1  
Page 203  
Feb 01/2016

TP-80MM-WJE

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### LOWER EPC, MISCELLANEOUS LEFT DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
P	37	B1-8	CALL SYSTEM

### LOWER EPC, MISCELLANEOUS RIGHT DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
R	24	B1-124	DOOR WARNING

### OVERHEAD BATT DIR BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	16	B1-383	FWD PASSENGER ENTRANCE STAIR CONTROL
A	17	B1-385	FWD PASSENGER ENTRANCE STAIR CARRIAGE MOTORS-1
A	18	B1-386	FWD PASSENGER ENTRANCE STAIR CARRIAGE MOTORS-2

### OVERHEAD EMERGENCY DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	8	B10-118	PASSENGER ADDRESS
A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE

### UPPER EPC, LEFT RADIO AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	19	B10-120	PASSENGER MUSIC

### UPPER EPC, LEFT RADIO DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
G	19	B10-121	PASSENGER MUSIC

### UPPER EPC, RIGHT RADIO DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
G	8	B10-65	SERVICE INTERPHONE

Make sure these circuit breakers are open and safety tags installed for aft attendant's panel:

### LEFT CONSOLE, GROUND SERVICE BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-376	AFT LEFT LAV MIRROR LIGHTS
		B1-778	AFT MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS
		B1-7	AFT RIGHT LAV MIRROR LIGHT

### LOWER EPC, MISCELLANEOUS LEFT DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
P	37	B1-8	CALL SYSTEM

### OVERHEAD EMERGENCY DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	8	B10-118	PASSENGER ADDRESS

#### EFFECTIVITY

WJE 405, 409, 416, 420, 422, 424-427, 429, 861, 862, 868, 873-879, 884, 891

TP-80MM-WJE

## 33-23-02

Config 1  
Page 204  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

(Continued)

### OVERHEAD EMERGENCY DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE

### UPPER EPC, RIGHT RADIO DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
G	8	B10-65	SERVICE INTERPHONE

Make sure these circuit breakers are open and safety tags installed for mid cabin attendant's panel:

### LEFT CONSOLE, GROUND SERVICE BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-778	AFT MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS
		B1-360	GALLEY AREA WORK LIGHTS

### LOWER EPC, MISCELLANEOUS LEFT DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
P	37	B1-8	CALL SYSTEM

### UPPER EPC, RIGHT RADIO DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
G	8	B10-65	SERVICE INTERPHONE

- (2) Position component on panel and install attaching screws.
- (3) Connect electrical wiring.
- (4) For forward panel only, close cabin panel, secure fasteners, and install electrical power center partition.
- (5) For aft panel only, position panel on partition and install attaching screws.
- (6) For mid cabin panel only, position panel on bracket and secure with attaching nuts and screws. Swing lower portion of panel up and secure with fasteners. Insert cover at top, swing cover down over attendant panel and secure with attaching screws.
- (7) Install face plate on panel by carefully applying pressure on area of attaching pins.
- (8) Install control knobs on panel.
- (9) Do a check of the hinged bypass check valve flapper door for freedom of movement. (Operational Check of the Hinged Bypass Check Valve, TASK 21-20-00-710-801)
- (10) Remove tags and close following applicable circuit breakers:
- (11) Remove tags and close these circuit breakers for forward attendant's panel:

### LEFT CONSOLE, GROUND SERVICE BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-777	FWD MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS
		B1-522	LAVATORY MIRROR LIGHTS - FWD LEFT
		B1-699	SIDEWALL LIGHTS - LOWER CONTROL
		B1-703	SIDEWALL LIGHTS - UPPER CONTROL

#### EFFECTIVITY

WJE 405, 409, 416, 420, 422, 424-427, 429, 861, 862, 868, 873-879, 884, 891

## 33-23-02

Config 1

Page 205

Feb 01/2016

TP-80MM-WJE

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### LOWER EPC, DC TRANSFER BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	34	B1-381	FWD PASSENGER ENTRANCE STAIR CARRIAGE MOTORS-1
Z	35	B1-382	FWD PASSENGER ENTRANCE STAIR CARRIAGE MOTORS-2
Z	36	B1-379	FWD PASSENGER ENTRANCE STAIR CONTROL
Z	37	B1-387	EMERGENCY LIGHTS CHARGING

### LOWER EPC, MISCELLANEOUS LEFT DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
P	37	B1-8	CALL SYSTEM

### LOWER EPC, MISCELLANEOUS RIGHT DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
R	24	B1-124	DOOR WARNING

### OVERHEAD BATT DIR BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	16	B1-383	FWD PASSENGER ENTRANCE STAIR CONTROL
A	17	B1-385	FWD PASSENGER ENTRANCE STAIR CARRIAGE MOTORS-1
A	18	B1-386	FWD PASSENGER ENTRANCE STAIR CARRIAGE MOTORS-2

### OVERHEAD EMERGENCY DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	8	B10-118	PASSENGER ADDRESS
A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE

### UPPER EPC, LEFT RADIO AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	19	B10-120	PASSENGER MUSIC

### UPPER EPC, LEFT RADIO DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
G	19	B10-121	PASSENGER MUSIC

### UPPER EPC, RIGHT RADIO DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
G	8	B10-65	SERVICE INTERPHONE

Remove tags and close these circuit breakers for aft attendant's panel:

### LEFT CONSOLE, GROUND SERVICE BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-376	AFT LEFT LAV MIRROR LIGHTS
		B1-778	AFT MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS

#### EFFECTIVITY

WJE 405, 409, 416, 420, 422, 424-427, 429, 861, 862, 868, 873-879, 884, 891

TP-80MM-WJE

# 33-23-02

Config 1  
Page 206  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

(Continued)

### LEFT CONSOLE, GROUND SERVICE BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-7	AFT RIGHT LAV MIRROR LIGHT

### LOWER EPC, MISCELLANEOUS LEFT DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
P	37	B1-8	CALL SYSTEM

### OVERHEAD EMERGENCY DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	8	B10-118	PASSENGER ADDRESS
A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE

### UPPER EPC, RIGHT RADIO DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
G	8	B10-65	SERVICE INTERPHONE

Remove tags and close these circuit breakers for mid cabin attendant's panel:

### LEFT CONSOLE, GROUND SERVICE BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-778	AFT MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS
		B1-360	GALLEY AREA WORK LIGHTS

### LOWER EPC, MISCELLANEOUS LEFT DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
P	37	B1-8	CALL SYSTEM

### UPPER EPC, RIGHT RADIO DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
G	8	B10-65	SERVICE INTERPHONE

- (12) Actuate appropriate switches to check proper operation of panel circuits.

#### EFFECTIVITY

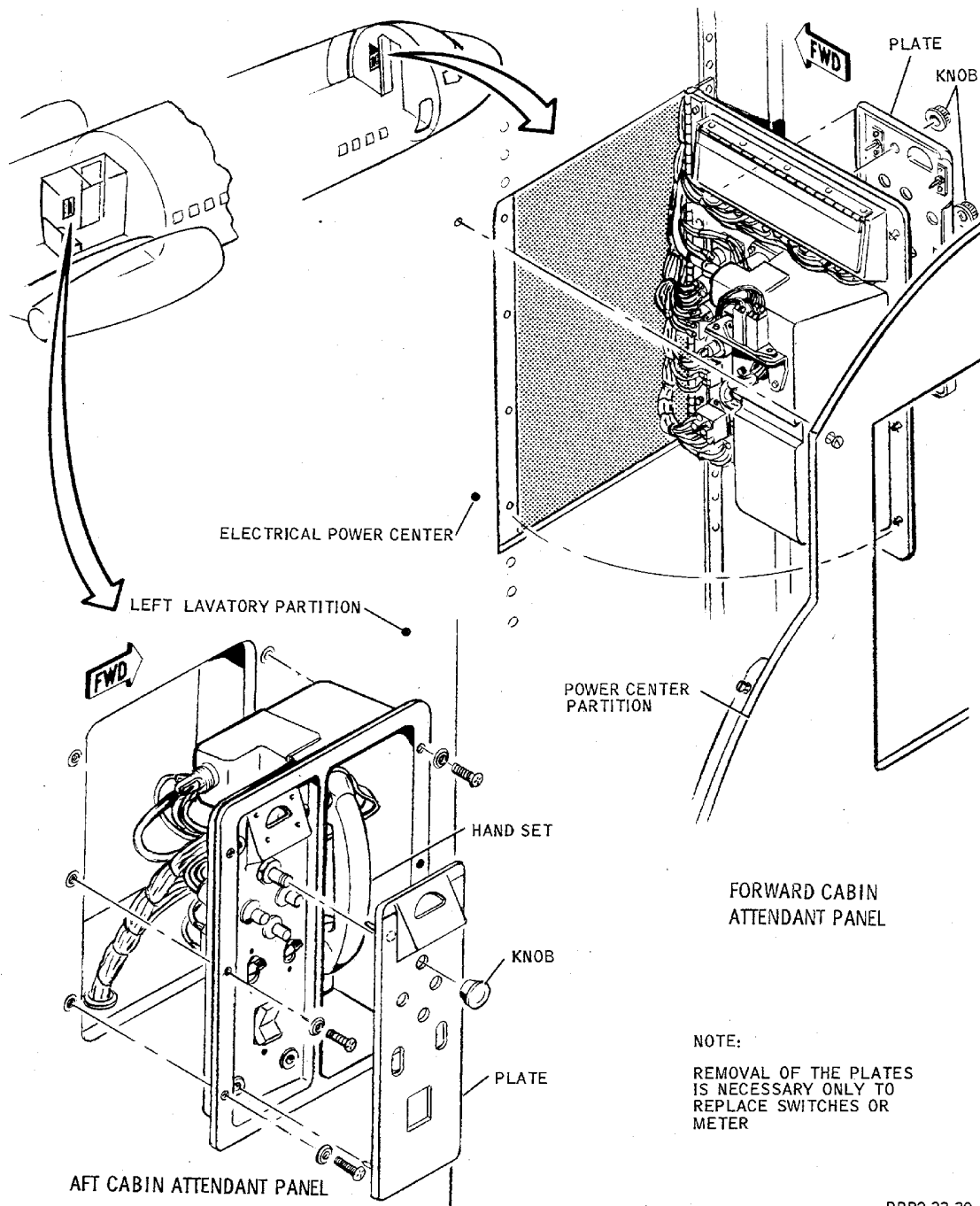
WJE 405, 409, 416, 420, 422, 424-427, 429, 861, 862, 868, 873-879, 884, 891

TP-80MM-WJE

# 33-23-02

Config 1  
Page 207  
Feb 01/2016

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



88B2-33-39

**Cabin Panels -- Removal/Installation**  
**Figure 201/33-23-02-990-801 (Sheet 1 of 2)**

**EFFECTIVITY**

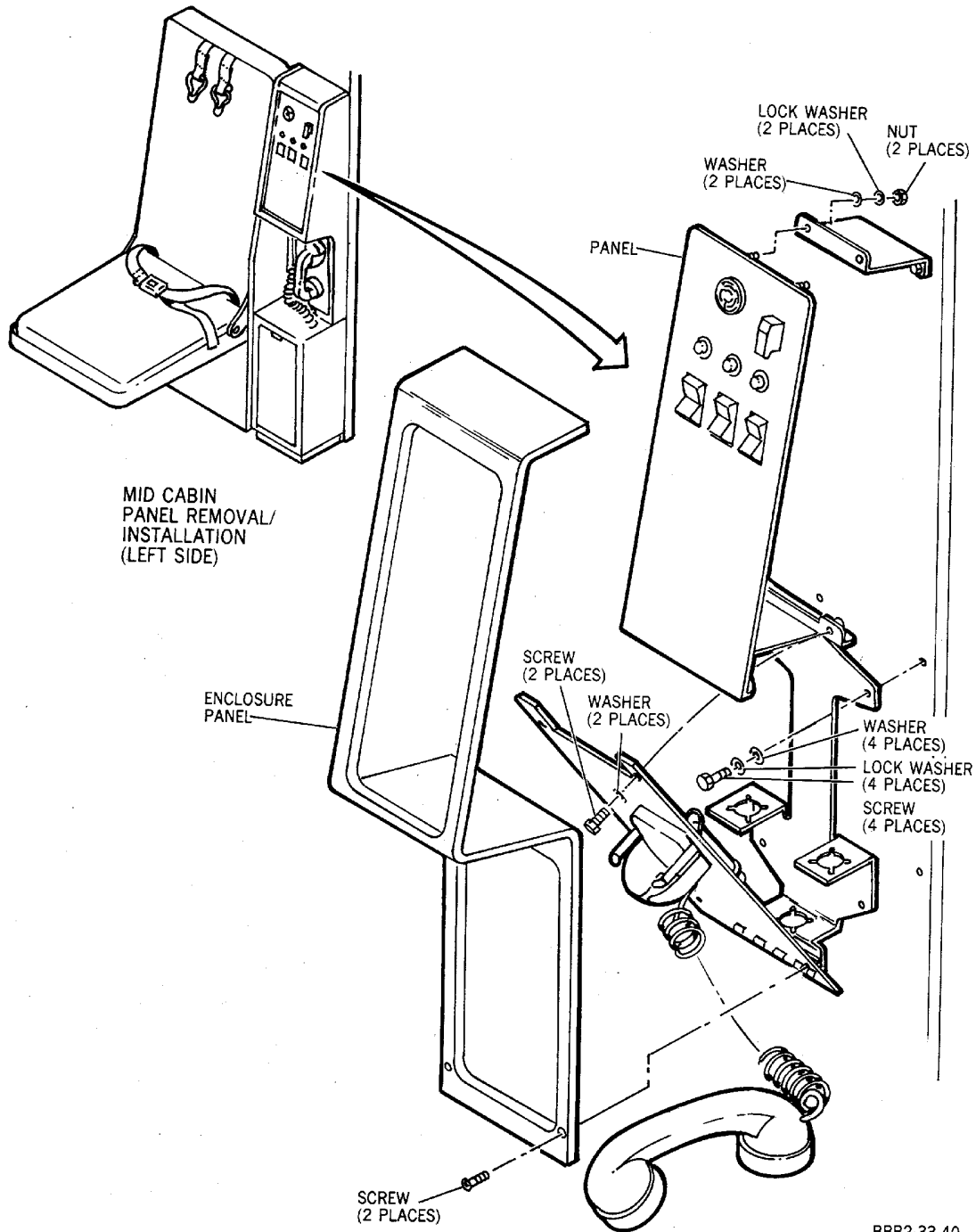
WJE 405, 409, 416, 420, 422, 424-427, 429, 861, 862, 868, 873-879, 884, 891

TP-80MM-WJE

**33-23-02**

Config 1  
Page 208  
Feb 01/2016

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



BBB2-33-40

**Cabin Panels -- Removal/Installation**  
**Figure 201/33-23-02-990-801 (Sheet 2 of 2)**

**EFFECTIVITY**

WJE 405, 409, 416, 420, 422, 424-427, 429, 861, 862,  
868, 873-879, 884, 891

TP-80MM-WJE

**33-23-02**

Config 1  
Page 209  
Feb 01/2016

**MD-80  
AIRCRAFT MAINTENANCE MANUAL  
CABIN PANELS - MAINTENANCE PRACTICES**

**1. General**

- A. The following procedures provide instructions for removing and installing the forward, mid and aft cabin attendant panels. Before performing maintenance on any component of a cabin panel, all circuit breakers relating to that panel should be opened to prevent electrical arcing.
- B. To prevent inadvertent activation of the emergency lights circuit, the emergency lights switches, on the overhead switch panel and the forward attendant's panel, should be in the off position before the emergency lights arm and charge circuit breaker is opened.

**2. Removal/Installation Cabin Panels**

- A. Remove Cabin Panel/Component (Figure 201 or Figure 202 or Figure 203)

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

**CAUTION:** MAKE CERTAIN CABIN EMERGENCY LIGHTS SWITCHES ARE IN OFF POSITION BEFORE OPENING EMERGENCY LIGHTS ARM AND CHARGE CIRCUIT BREAKER.

- (1) Open these circuit breakers and install safety tags for forward attendant's panel:

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-777	FWD MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS
		B1-522	LAVATORY MIRROR LIGHTS - FWD LEFT
		B1-699	SIDEWALL LIGHTS - LOWER CONTROL
		B1-703	SIDEWALL LIGHTS - UPPER CONTROL

**LOWER EPC, DC TRANSFER BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	34	B1-381	FWD PASSENGER ENTRANCE STAIR CARRIAGE MOTORS-1
Z	35	B1-382	FWD PASSENGER ENTRANCE STAIR CARRIAGE MOTORS-2
Z	36	B1-379	FWD PASSENGER ENTRANCE STAIR CONTROL
Z	37	B1-387	EMERGENCY LIGHTS CHARGING

**LOWER EPC, MISCELLANEOUS LEFT DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
P	37	B1-8	CALL SYSTEM

**LOWER EPC, MISCELLANEOUS RIGHT DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
R	24	B1-124	DOOR WARNING

**OVERHEAD BATT DIR BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
			WJE 401-404, 406-408, 411, 412, 414, 415, 417-419, 421, 423, 863-866, 869, 871, 872, 880, 881, 883, 892, 893
A	16	B1-383	FWD PASSENGER ENTRANCE STAIR CONTROL

**EFFECTIVITY**

WJE 401-404, 406-408, 410-412, 414, 415, 417-419, 421, 423, 863-866, 869, 871, 872, 880, 881, 883, 892, 893

TP-80MM-WJE

**33-23-02**

Config 2  
Page 201  
Feb 01/2016



## MD-80 AIRCRAFT MAINTENANCE MANUAL

**WJE 401-404, 406-408, 411, 412, 414, 415, 417-419, 421, 423, 863-866, 869, 871, 872, 880, 881, 883, 892, 893**  
(Continued)

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### OVERHEAD BATT DIR BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	17	B1-385	FWD PASSENGER ENTRANCE STAIR CARRIAGE MOTORS-1

#### WJE 410

A	17	B1-383	FWD PASSENGER ENTRANCE STAIR CONTROL
A	18	B1-385	FWD PASSENGER ENTRANCE STAIR CARRIAGE MOTORS-1

#### WJE 401-404, 406-408, 411, 412, 414, 415, 417-419, 421, 423, 863-866, 869, 871, 872, 880, 881, 883, 892, 893

A	18	B1-386	FWD PASSENGER ENTRANCE STAIR CARRIAGE MOTORS-2
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#### WJE 410

A	19	B1-386	FWD PASSENGER ENTRANCE STAIR CARRIAGE MOTORS-2
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### OVERHEAD EMERGENCY DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
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#### WJE 401-404, 406-408, 411, 412, 414, 415, 417-419, 421, 423, 863-866, 869, 871, 872, 880, 881, 883, 892, 893

A	8	B10-118	PASSENGER ADDRESS
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#### WJE 410

A	9	B10-118	PASSENGER ADDRESS
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#### WJE 401-404, 406-408, 411, 412, 414, 415, 417-419, 421, 423, 863-866, 869, 871, 872, 880, 881, 883, 892, 893

A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE
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#### WJE 410

A	15	B1-41	EMERGENCY LIGHTS ARM AND CHARGE
---	----	-------	---------------------------------

### UPPER EPC, LEFT RADIO AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
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#### WJE 401-404, 406-408, 410-412, 414, 415, 417-419, 421, 423, 863-866, 869, 871, 872, 880, 881, 883, 892, 893

F	19	B10-120	PASSENGER MUSIC
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### UPPER EPC, LEFT RADIO DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
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G	19	B10-121	PASSENGER MUSIC
---	----	---------	-----------------

### UPPER EPC, RIGHT RADIO DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
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G	8	B10-65	SERVICE INTERPHONE
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#### EFFECTIVITY

WJE 401-404, 406-408, 410-412, 414, 415, 417-419, 421, 423, 863-866, 869, 871, 872, 880, 881, 883, 892, 893

# 33-23-02

Config 2

Page 202

Feb 01/2016

TP-80MM-WJE

## MD-80 AIRCRAFT MAINTENANCE MANUAL

Open these circuit breakers and install safety tags for aft attendant's panel:

### LEFT CONSOLE, GROUND SERVICE BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-376	AFT LEFT LAV MIRROR LIGHTS
		B1-778	AFT MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS
		B1-7	AFT RIGHT LAV MIRROR LIGHT

### LOWER EPC, MISCELLANEOUS LEFT DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
P	37	B1-8	CALL SYSTEM

### OVERHEAD EMERGENCY DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 401-404, 406-408, 411, 412, 414, 415, 417-419, 421, 423, 863-866, 869, 871, 872, 880, 881, 883, 892, 893</b>			
A	8	B10-118	PASSENGER ADDRESS
<b>WJE 410</b>			
A	9	B10-118	PASSENGER ADDRESS
<b>WJE 401-404, 406-408, 411, 412, 414, 415, 417-419, 421, 423, 863-866, 869, 871, 872, 880, 881, 883, 892, 893</b>			
A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE
<b>WJE 410</b>			
A	15	B1-41	EMERGENCY LIGHTS ARM AND CHARGE

### UPPER EPC, RIGHT RADIO DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 401-404, 406-408, 410-412, 414, 415, 417-419, 421, 423, 863-866, 869, 871, 872, 880, 881, 883, 892, 893</b>			
G	8	B10-65	SERVICE INTERPHONE

Open these circuit breakers and install safety tags for mid cabin attendant's panel:

### LEFT CONSOLE, GROUND SERVICE BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-778	AFT MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS
		B1-360	GALLEY AREA WORK LIGHTS

### LOWER EPC, MISCELLANEOUS LEFT DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
P	37	B1-8	CALL SYSTEM

### UPPER EPC, RIGHT RADIO DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
G	8	B10-65	SERVICE INTERPHONE

B. Remove forward attendant's panel as follows:

- (1) Remove electrical power center partition to gain access to attendant panel.

#### EFFECTIVITY

WJE 401-404, 406-408, 410-412, 414, 415, 417-419, 421, 423, 863-866, 869, 871, 872, 880, 881, 883, 892, 893

TP-80MM-WJE

# 33-23-02

Config 2  
Page 203  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

- (2) Remove hand set cradle unit to gain access to cradle housing attaching screws.
- (3) Remove housing attaching screws and swing panel open.
- (4) Disconnect and tag electrical connectors.

**CAUTION:** TO PREVENT DAMAGE TO PANEL WIRING AND COMPONENTS, SUPPORT PANEL WHEN ATTACHING SCREWS ARE REMOVED.

- (5) Remove attaching screws securing panel to hinge and remove panel.

C. Remove mid attendant's panel as follows:

- (1) Remove hand set cradle unit to gain access to cradle housing attaching screws.

**CAUTION:** TO PREVENT DAMAGE TO PANEL WIRING AND COMPONENTS, SUPPORT PANEL WHEN ATTACHING SCREWS ARE REMOVED.

- (2) Remove attaching screws securing housing to partition brackets.
- (3) Pull out housing to gain access to electrical connectors.
- (4) Disconnect and tag electrical connector and remove panel.
- (5) Remove panel cover.

D. Remove aft attendant's panel as follows:

- (1) Remove attaching screws securing housing to partitions.
- (2) Pull out housing to gain access to electrical connectors.
- (3) Disconnect and tag electrical connectors and remove panel.

E. Install Cabin Panel

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

**CAUTION:** MAKE CERTAIN CABIN EMERGENCY LIGHTS SWITCHES ARE IN OFF POSITION BEFORE OPENING EMERGENCY LIGHTS ARM AND CHARGE CIRCUIT BREAKER.

- (1) Make certain these circuit breakers are open and safety tags are installed for forward attendant's panel:

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-777	FWD MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS
		B1-522	LAVATORY MIRROR LIGHTS - FWD LEFT
		B1-699	SIDEWALL LIGHTS - LOWER CONTROL
		B1-703	SIDEWALL LIGHTS - UPPER CONTROL

**LOWER EPC, DC TRANSFER BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	34	B1-381	FWD PASSENGER ENTRANCE STAIR CARRIAGE MOTORS-1
Z	35	B1-382	FWD PASSENGER ENTRANCE STAIR CARRIAGE MOTORS-2
Z	36	B1-379	FWD PASSENGER ENTRANCE STAIR CONTROL
Z	37	B1-387	EMERGENCY LIGHTS CHARGING

EFFECTIVITY

WJE 401-404, 406-408, 410-412, 414, 415, 417-419, 421, 423, 863-866, 869, 871, 872, 880, 881, 883, 892, 893

TP-80MM-WJE

**33-23-02**

Config 2  
Page 204  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### LOWER EPC, MISCELLANEOUS LEFT DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
P	37	B1-8	CALL SYSTEM

### LOWER EPC, MISCELLANEOUS RIGHT DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
R	24	B1-124	DOOR WARNING

### OVERHEAD BATT DIR BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
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WJE 401-404, 406-408, 411, 412, 414, 415, 417-419, 421, 423, 863-866, 869, 871, 872, 880, 881, 883, 892, 893

A	16	B1-383	FWD PASSENGER ENTRANCE STAIR CONTROL
A	17	B1-385	FWD PASSENGER ENTRANCE STAIR CARRIAGE MOTORS-1

#### WJE 410

A	17	B1-383	FWD PASSENGER ENTRANCE STAIR CONTROL
A	18	B1-385	FWD PASSENGER ENTRANCE STAIR CARRIAGE MOTORS-1

WJE 401-404, 406-408, 411, 412, 414, 415, 417-419, 421, 423, 863-866, 869, 871, 872, 880, 881, 883, 892, 893

A	18	B1-386	FWD PASSENGER ENTRANCE STAIR CARRIAGE MOTORS-2
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#### WJE 410

A	19	B1-386	FWD PASSENGER ENTRANCE STAIR CARRIAGE MOTORS-2
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### OVERHEAD EMERGENCY DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
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WJE 401-404, 406-408, 411, 412, 414, 415, 417-419, 421, 423, 863-866, 869, 871, 872, 880, 881, 883, 892, 893

A	8	B10-118	PASSENGER ADDRESS
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#### WJE 410

A	9	B10-118	PASSENGER ADDRESS
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WJE 401-404, 406-408, 411, 412, 414, 415, 417-419, 421, 423, 863-866, 869, 871, 872, 880, 881, 883, 892, 893

A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE
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#### WJE 410

A	15	B1-41	EMERGENCY LIGHTS ARM AND CHARGE
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### UPPER EPC, LEFT RADIO AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
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WJE 401-404, 406-408, 410-412, 414, 415, 417-419, 421, 423, 863-866, 869, 871, 872, 880, 881, 883, 892, 893

F	19	B10-120	PASSENGER MUSIC
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### UPPER EPC, LEFT RADIO DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
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G	19	B10-121	PASSENGER MUSIC
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#### EFFECTIVITY

WJE 401-404, 406-408, 410-412, 414, 415, 417-419, 421, 423, 863-866, 869, 871, 872, 880, 881, 883, 892, 893

TP-80MM-WJE

# 33-23-02

Config 2  
Page 205  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### UPPER EPC, RIGHT RADIO DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
G	8	B10-65	SERVICE INTERPHONE

Make certain these circuit breakers are open and install safety tags for aft attendant's panel:

### LEFT CONSOLE, GROUND SERVICE BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-376	AFT LEFT LAV MIRROR LIGHTS
		B1-778	AFT MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS
		B1-7	AFT RIGHT LAV MIRROR LIGHT

### LOWER EPC, MISCELLANEOUS LEFT DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
P	37	B1-8	CALL SYSTEM

### OVERHEAD EMERGENCY DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 401-404, 406-408, 411, 412, 414, 415, 417-419, 421, 423, 863-866, 869, 871, 872, 880, 881, 883, 892, 893</b>			
A	8	B10-118	PASSENGER ADDRESS
<b>WJE 410</b>			
A	9	B10-118	PASSENGER ADDRESS

### UPPER EPC, RIGHT RADIO DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 401-404, 406-408, 410-412, 414, 415, 417-419, 421, 423, 863-866, 869, 871, 872, 880, 881, 883, 892, 893</b>			
G	8	B10-65	SERVICE INTERPHONE

- (2) Install forward attendant's panel as follows:
  - (a) Position panel on hinge and install attaching screws.
  - (b) Remove tags and connect electrical connectors.
  - (c) Swing panel close and install housing attaching screws.
  - (d) Install hand set cradle unit.
  - (e) Install power center partition.
- (3) Install mid attendant's panel as follows:
  - (a) Install panel cover on partition.
  - (b) Remove tags and connect electrical connectors.
- (4) Position housing on panel cover and install attaching screws to partition brackets.
- (5) Install hand set cradle unit.
- (6) Install aft attendant's panel as follows:
  - (a) Remove tags and connect electrical connectors.
  - (b) Position panel on partition and install attaching screws.
- (7) Do a check of the hinged bypass check valve flapper door for freedom of movement.  
(Operational Check of the Hinged Bypass Check Valve, TASK 21-20-00-710-801)

#### EFFECTIVITY

WJE 401-404, 406-408, 410-412, 414, 415, 417-419, 421, 423, 863-866, 869, 871, 872, 880, 881, 883, 892, 893

TP-80MM-WJE

## 33-23-02

Config 2  
Page 206  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

- (8) Remove tags and close following applicable circuit breakers:
- F. Close circuit breakers and remove safety tags for aft attendant's panel:

### LEFT CONSOLE, GROUND SERVICE BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-376	AFT LEFT LAV MIRROR LIGHTS
		B1-778	AFT MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS
		B1-7	AFT RIGHT LAV MIRROR LIGHT

### LOWER EPC, MISCELLANEOUS LEFT DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
P	37	B1-8	CALL SYSTEM

### OVERHEAD EMERGENCY DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 401-404, 406-408, 411, 412, 414, 415, 417-419, 421, 423, 863-866, 869, 871, 872, 880, 881, 883, 892, 893</b>			
A	8	B10-118	PASSENGER ADDRESS
<b>WJE 410</b>			
A	9	B10-118	PASSENGER ADDRESS

### UPPER EPC, RIGHT RADIO DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 401-404, 406-408, 410-412, 414, 415, 417-419, 421, 423, 863-866, 869, 871, 872, 880, 881, 883, 892, 893</b>			
G	8	B10-65	SERVICE INTERPHONE

- G. Actuate appropriate switches to check proper operation of panel circuits.

#### EFFECTIVITY

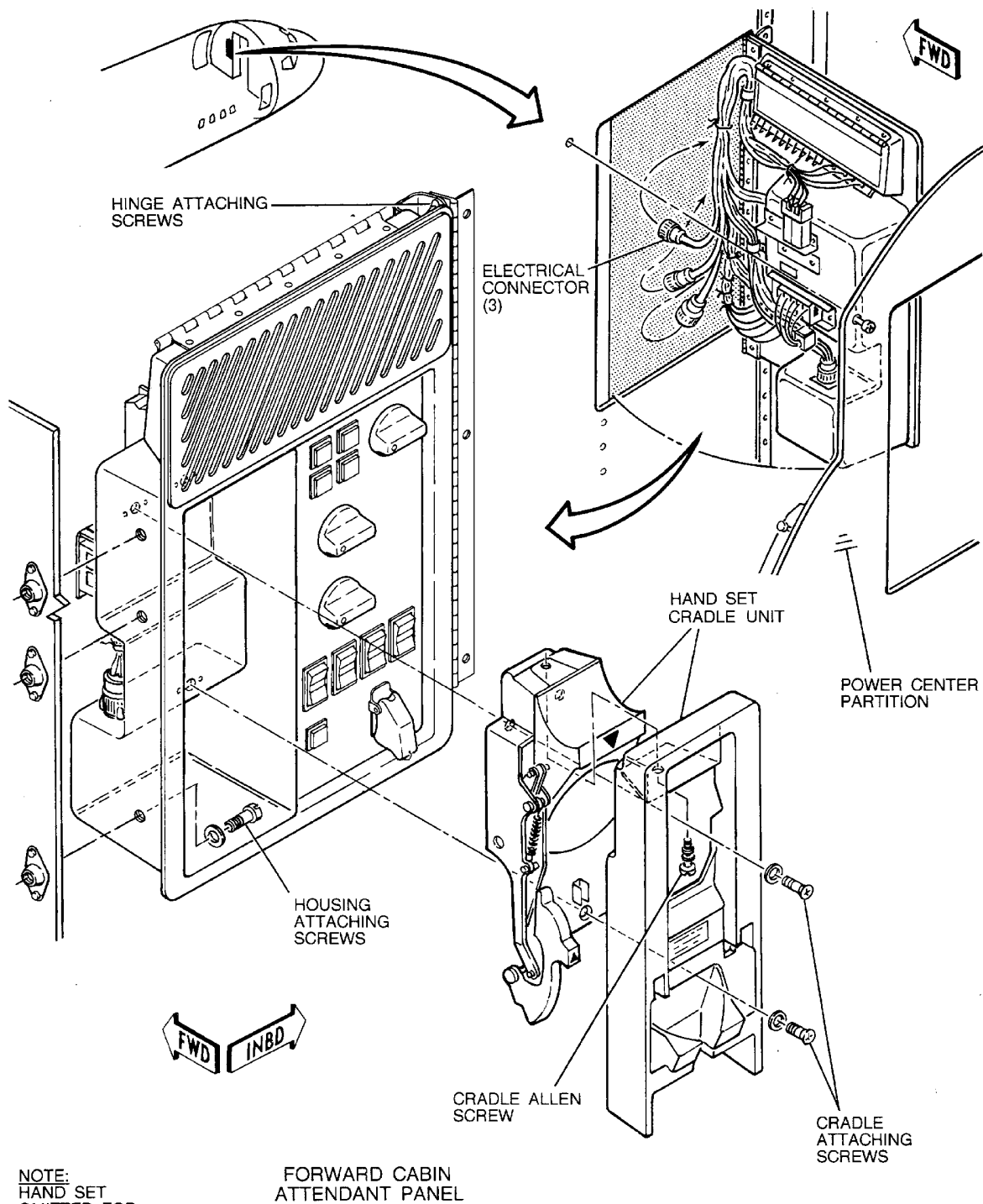
WJE 401-404, 406-408, 410-412, 414, 415, 417-419, 421, 423, 863-866, 869, 871, 872, 880, 881, 883, 892, 893

TP-80MM-WJE

# 33-23-02

Config 2  
Page 207  
Feb 01/2016

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



NOTE:  
HAND SET  
OMITTED FOR  
CLARITY

FORWARD CABIN  
ATTENDANT PANEL

BBB2-33-306

**Forward Cabin Attendant Panel  
Figure 201/33-23-02-990-802**

**EFFECTIVITY**

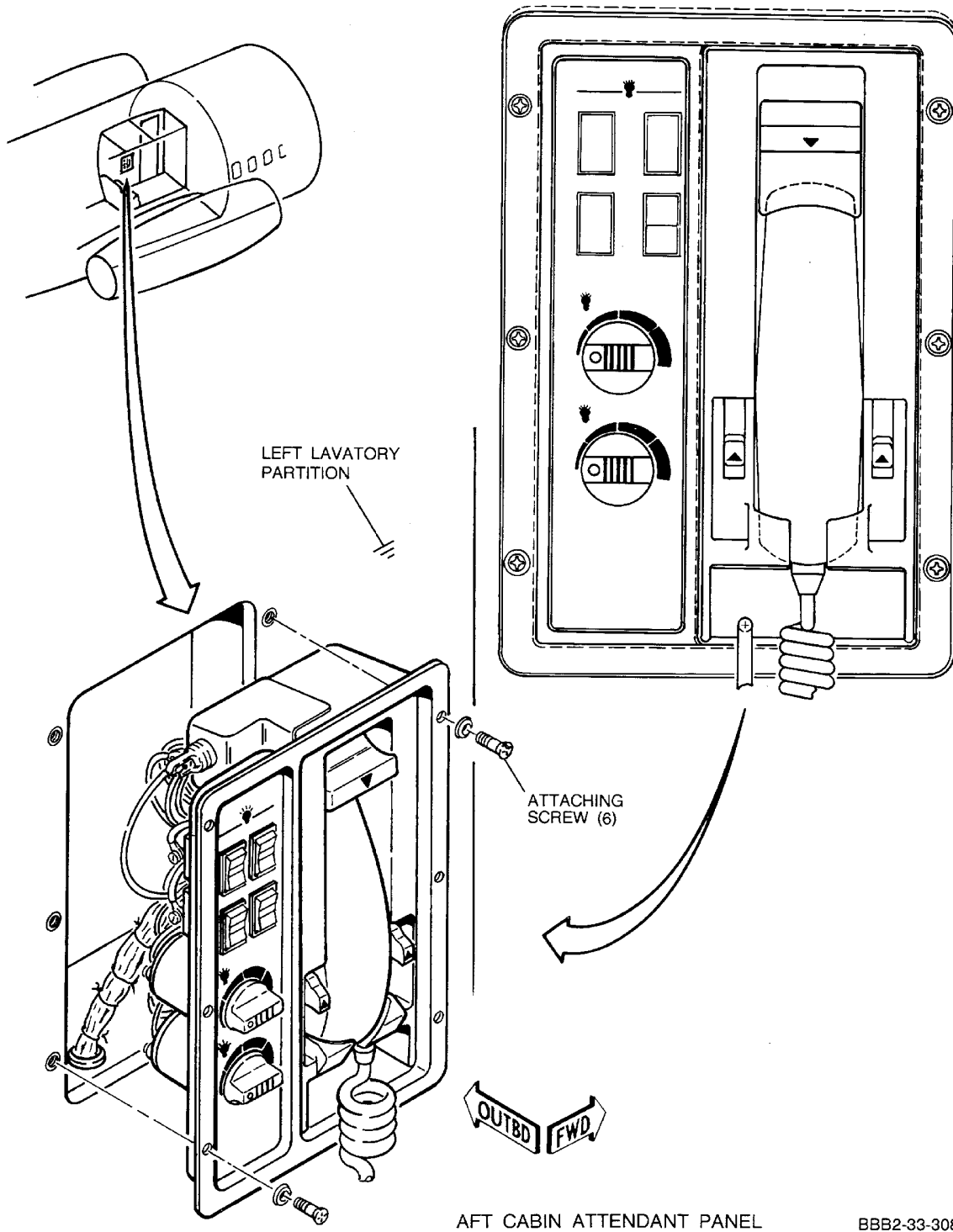
WJE 401-404, 406-408, 410-412, 414, 415, 417-419,  
421, 423, 863-866, 869, 871, 872, 880, 881, 883, 892,  
893

TP-80MM-WJE

**33-23-02**

Config 2  
Page 208  
Feb 01/2016

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



**Aft Cabin Attendant Panel**  
Figure 202/33-23-02-990-803

AFT CABIN ATTENDANT PANEL

BBB2-33-308

**EFFECTIVITY**

WJE 401-404, 406-408, 410-412, 414, 415, 417-419,  
421, 423, 863-866, 869, 871, 872, 880, 881, 883, 892,  
893

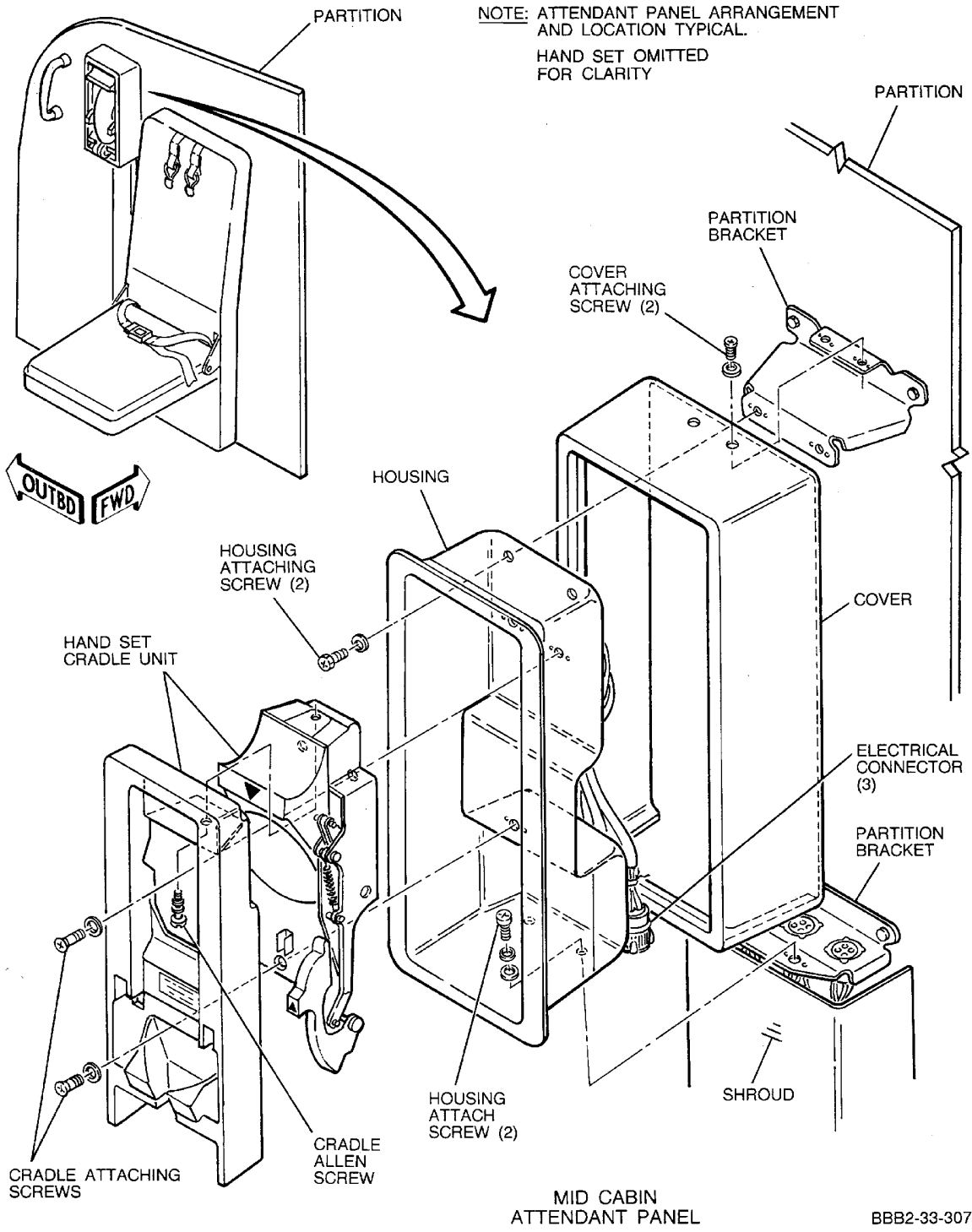
TP-80MM-WJE

**33-23-02**

Config 2  
Page 209  
Feb 01/2016



**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



BBB2-33-307

**Mid Cabin Attendant Panel  
Figure 203/33-23-02-990-804**

EFFECTIVITY  
WJE 401-404, 406-408, 410-412, 414, 415, 417-419,  
421, 423, 863-866, 869, 871, 872, 880, 881, 883, 892,  
893

TP-80MM-WJE

**33-23-02**

Config 2  
Page 210  
Feb 01/2016

**MD-80**  
**AIRCRAFT MAINTENANCE MANUAL**  
**CABIN PANELS - MAINTENANCE PRACTICES**

**1. General**

- A. The following procedures provide instructions for removing and installing the forward, mid and aft cabin attendant panels. Before performing maintenance on any component of a cabin panel, all circuit breakers relating to that panel should be opened to prevent electrical arcing.
- B. To prevent inadvertent activation of the emergency lights circuit, the emergency lights switches, on the overhead switch panel and the forward attendant's panel, should be in the off position before the emergency lights arm and charge circuit breaker is opened.

**2. Removal/Installation Cabin Panels**

- A. Remove Cabin Panel.  
 (Figure 201)

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

**CAUTION:** MAKE CERTAIN CABIN EMERGENCY LIGHTS SWITCHES ARE IN OFF POSITION BEFORE OPENING EMERGENCY LIGHTS ARM AND CHARGE CIRCUIT BREAKER.

- (1) Open these circuit breakers and install safety tags for forward attendant's panel:

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-777	FWD MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS
		B1-522	LAVATORY MIRROR LIGHTS - FWD LEFT
		B1-699	SIDEWALL LIGHTS - LOWER CONTROL
		B1-703	SIDEWALL LIGHTS - UPPER CONTROL

**LOWER EPC, DC TRANSFER BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	34	B1-381	FWD PASSENGER ENTRANCE STAIR CARRIAGE MOTORS-1
Z	35	B1-382	FWD PASSENGER ENTRANCE STAIR CARRIAGE MOTORS-2
Z	36	B1-379	FWD PASSENGER ENTRANCE STAIR CONTROL
Z	37	B1-387	EMERGENCY LIGHTS CHARGING

**LOWER EPC, MISCELLANEOUS LEFT DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
P	37	B1-8	CALL SYSTEM

**LOWER EPC, MISCELLANEOUS RIGHT DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
R	24	B1-124	DOOR WARNING

**OVERHEAD BATT DIR BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	16	B1-383	FWD PASSENGER ENTRANCE STAIR CONTROL

EFFECTIVITY  
WJE 886, 887

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**33-23-02**

Config 3  
Page 201  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

(Continued)

### OVERHEAD BATT DIR BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	17	B1-385	FWD PASSENGER ENTRANCE STAIR CARRIAGE MOTORS-1
A	18	B1-386	FWD PASSENGER ENTRANCE STAIR CARRIAGE MOTORS-2

### OVERHEAD EMERGENCY DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	8	B10-118	PASSENGER ADDRESS
A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE

### UPPER EPC, LEFT RADIO AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	19	B10-120	PASSENGER MUSIC

### UPPER EPC, LEFT RADIO DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
G	19	B10-121	PASSENGER MUSIC

### UPPER EPC, RIGHT RADIO DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
G	8	B10-65	SERVICE INTERPHONE

Open these circuit breakers and install safety tags for aft attendant's panel:

### LEFT CONSOLE, GROUND SERVICE BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-376	AFT LEFT LAV MIRROR LIGHTS
		B1-778	AFT MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS
		B1-7	AFT RIGHT LAV MIRROR LIGHT

### LOWER EPC, MISCELLANEOUS LEFT DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
P	37	B1-8	CALL SYSTEM

### OVERHEAD EMERGENCY DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	8	B10-118	PASSENGER ADDRESS

### UPPER EPC, RIGHT RADIO DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
G	8	B10-65	SERVICE INTERPHONE

B. Remove forward attendant's panel as follows:

- (1) Remove electrical power center partition to gain access to attendant panel.
- (2) Remove hand set cradle unit to gain access to cradle housing attaching screws.
- (3) Remove housing attaching screws and swing panel open.

EFFECTIVITY  
WJE 886, 887

TP-80MM-WJE

# 33-23-02

Config 3  
Page 202  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

(4) Disconnect and tag electrical connectors.

**CAUTION:** TO PREVENT DAMAGE TO PANEL WIRING AND COMPONENTS, SUPPORT PANEL WHEN ATTACHING SCREWS ARE REMOVED.

(5) Remove attaching screws securing panel to hinge and remove panel.

C. Remove aft attendant's panel as follows:

(1) Remove attaching screws securing housing to partitions.

(2) Pull out housing to gain access to electrical connectors.

(3) Disconnect and tag electrical connectors and remove panel.

D. Install Cabin Panel

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

**CAUTION:** MAKE CERTAIN CABIN EMERGENCY LIGHTS SWITCHES ARE IN OFF POSITION BEFORE OPENING EMERGENCY LIGHTS ARM AND CHARGE CIRCUIT BREAKER.

(1) Make certain these circuit breakers are open and safety tags are installed for forward attendant's panel:

### LEFT CONSOLE, GROUND SERVICE BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-777	FWD MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS
		B1-522	LAVATORY MIRROR LIGHTS - FWD LEFT
		B1-699	SIDEWALL LIGHTS - LOWER CONTROL
		B1-703	SIDEWALL LIGHTS - UPPER CONTROL

### LOWER EPC, DC TRANSFER BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	34	B1-381	FWD PASSENGER ENTRANCE STAIR CARRIAGE MOTORS-1
Z	35	B1-382	FWD PASSENGER ENTRANCE STAIR CARRIAGE MOTORS-2
Z	36	B1-379	FWD PASSENGER ENTRANCE STAIR CONTROL
Z	37	B1-387	EMERGENCY LIGHTS CHARGING

### LOWER EPC, MISCELLANEOUS LEFT DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
P	37	B1-8	CALL SYSTEM

### LOWER EPC, MISCELLANEOUS RIGHT DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
R	24	B1-124	DOOR WARNING

### OVERHEAD BATT DIR BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	16	B1-383	FWD PASSENGER ENTRANCE STAIR CONTROL

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TP-80MM-WJE

# 33-23-02

Config 3  
Page 203  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

(Continued)

### OVERHEAD BATT DIR BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	17	B1-385	FWD PASSENGER ENTRANCE STAIR CARRIAGE MOTORS-1
A	18	B1-386	FWD PASSENGER ENTRANCE STAIR CARRIAGE MOTORS-2

### OVERHEAD EMERGENCY DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	8	B10-118	PASSENGER ADDRESS
A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE

### UPPER EPC, LEFT RADIO AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	19	B10-120	PASSENGER MUSIC

### UPPER EPC, LEFT RADIO DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
G	19	B10-121	PASSENGER MUSIC

### UPPER EPC, RIGHT RADIO DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
G	8	B10-65	SERVICE INTERPHONE

Make certain these circuit breakers are open and install safety tags for aft attendant's panel:

### LEFT CONSOLE, GROUND SERVICE BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-376	AFT LEFT LAV MIRROR LIGHTS
		B1-778	AFT MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS
		B1-7	AFT RIGHT LAV MIRROR LIGHT

### LOWER EPC, MISCELLANEOUS LEFT DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
P	37	B1-8	CALL SYSTEM

### OVERHEAD EMERGENCY DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	8	B10-118	PASSENGER ADDRESS

### UPPER EPC, RIGHT RADIO DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
G	8	B10-65	SERVICE INTERPHONE

- (2) Install forward attendant's panel as follows:
- (a) Position panel on hinge and install attaching screws.
  - (b) Remove tags and connect electrical connectors.
  - (c) Swing panel close and install housing attaching screws.

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TP-80MM-WJE

# 33-23-02

Config 3  
Page 204  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

- (d) Install hand set cradle unit.
- (e) Install power center partition.
- (3) Install aft attendant's panel as follows:
  - (a) Remove tags and connect electrical connectors.
  - (b) Position panel on partition and install attaching screws.
- (4) Do a check of the hinged bypass check valve flapper door for freedom of movement.  
(Operational Check of the Hinged Bypass Check Valve, TASK 21-20-00-710-801)
- (5) Remove tags and close following applicable circuit breakers:

E. Close circuit breakers and remove safety tags for forward attendant's panel:

### LEFT CONSOLE, GROUND SERVICE BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-777	FWD MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS
		B1-522	LAVATORY MIRROR LIGHTS - FWD LEFT
		B1-699	SIDEWALL LIGHTS - LOWER CONTROL
		B1-703	SIDEWALL LIGHTS - UPPER CONTROL

### LOWER EPC, DC TRANSFER BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	34	B1-381	FWD PASSENGER ENTRANCE STAIR CARRIAGE MOTORS-1
Z	35	B1-382	FWD PASSENGER ENTRANCE STAIR CARRIAGE MOTORS-2
Z	36	B1-379	FWD PASSENGER ENTRANCE STAIR CONTROL
Z	37	B1-387	EMERGENCY LIGHTS CHARGING

### LOWER EPC, MISCELLANEOUS LEFT DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
P	37	B1-8	CALL SYSTEM

### LOWER EPC, MISCELLANEOUS RIGHT DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
R	24	B1-124	DOOR WARNING

### OVERHEAD BATT DIR BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	16	B1-383	FWD PASSENGER ENTRANCE STAIR CONTROL
A	17	B1-385	FWD PASSENGER ENTRANCE STAIR CARRIAGE MOTORS-1
A	18	B1-386	FWD PASSENGER ENTRANCE STAIR CARRIAGE MOTORS-2

### OVERHEAD EMERGENCY DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	8	B10-118	PASSENGER ADDRESS

EFFECTIVITY  
WJE 886, 887

TP-80MM-WJE

# 33-23-02

Config 3  
Page 205  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### UPPER EPC, LEFT RADIO AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	19	B10-120	PASSENGER MUSIC

### UPPER EPC, LEFT RADIO DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
G	19	B10-121	PASSENGER MUSIC

### UPPER EPC, RIGHT RADIO DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
G	8	B10-65	SERVICE INTERPHONE

- F. Close circuit breakers and remove safety tags for aft attendant's panel:

### LEFT CONSOLE, GROUND SERVICE BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-376	AFT LEFT LAV MIRROR LIGHTS
		B1-778	AFT MISCELLANEOUS CABIN AND LAVATORY OCCUPIED LIGHTS
		B1-7	AFT RIGHT LAV MIRROR LIGHT

### LOWER EPC, MISCELLANEOUS LEFT DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
P	37	B1-8	CALL SYSTEM

### OVERHEAD EMERGENCY DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	8	B10-118	PASSENGER ADDRESS

### UPPER EPC, RIGHT RADIO DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
G	8	B10-65	SERVICE INTERPHONE

- G. Actuate appropriate switches to check proper operation of panel circuits.

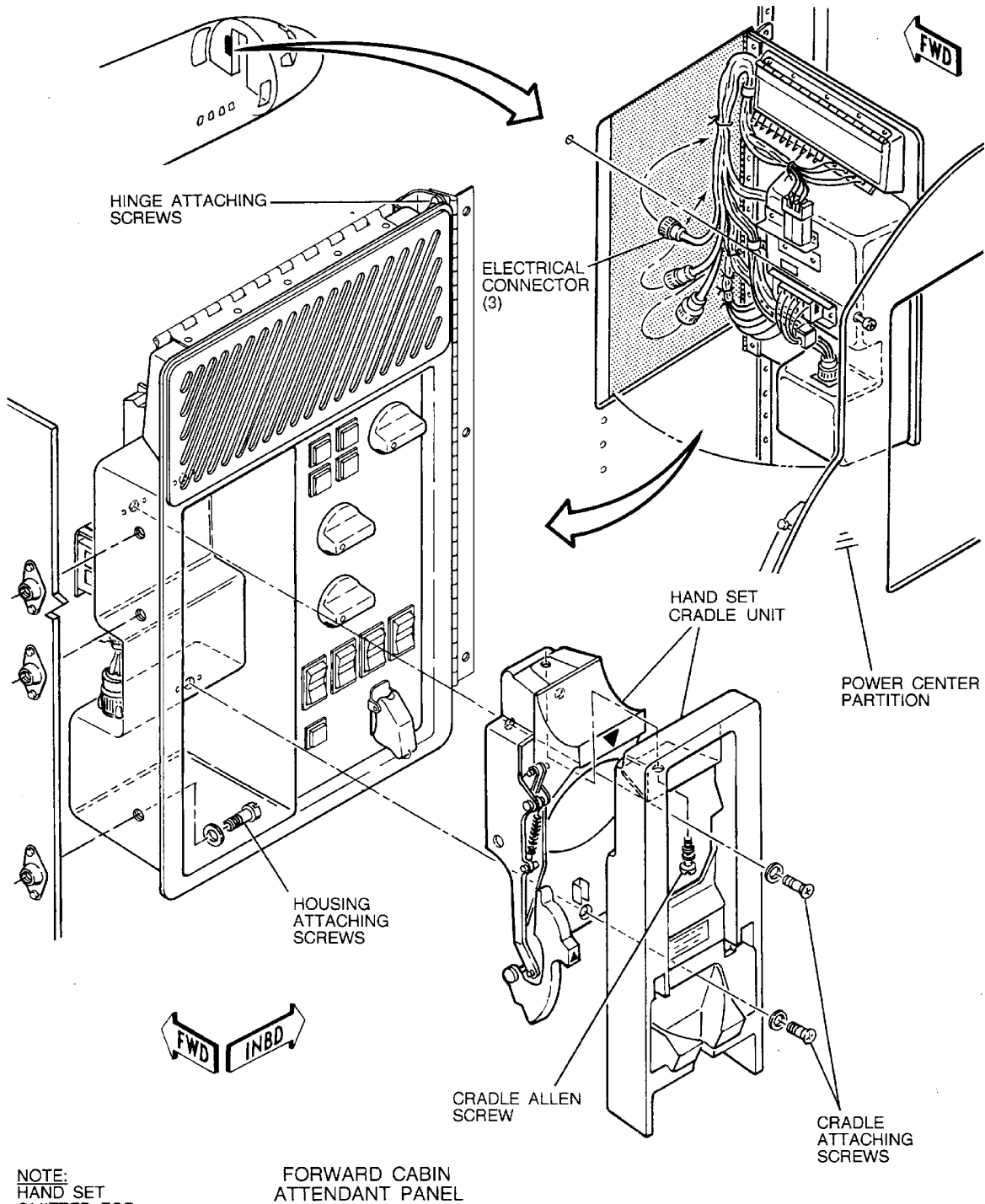
EFFECTIVITY  
WJE 886, 887

TP-80MM-WJE

# 33-23-02

Config 3  
Page 206  
Feb 01/2016

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



NOTE:  
HAND SET  
OMITTED FOR  
CLARITY

FORWARD CABIN  
ATTENDANT PANEL

BBB2-33-306

**Cabin Attendant Panels**  
Figure 201/33-23-02-990-805 (Sheet 1 of 2)

EFFECTIVITY  
WJE 886, 887

TP-80MM-WJE

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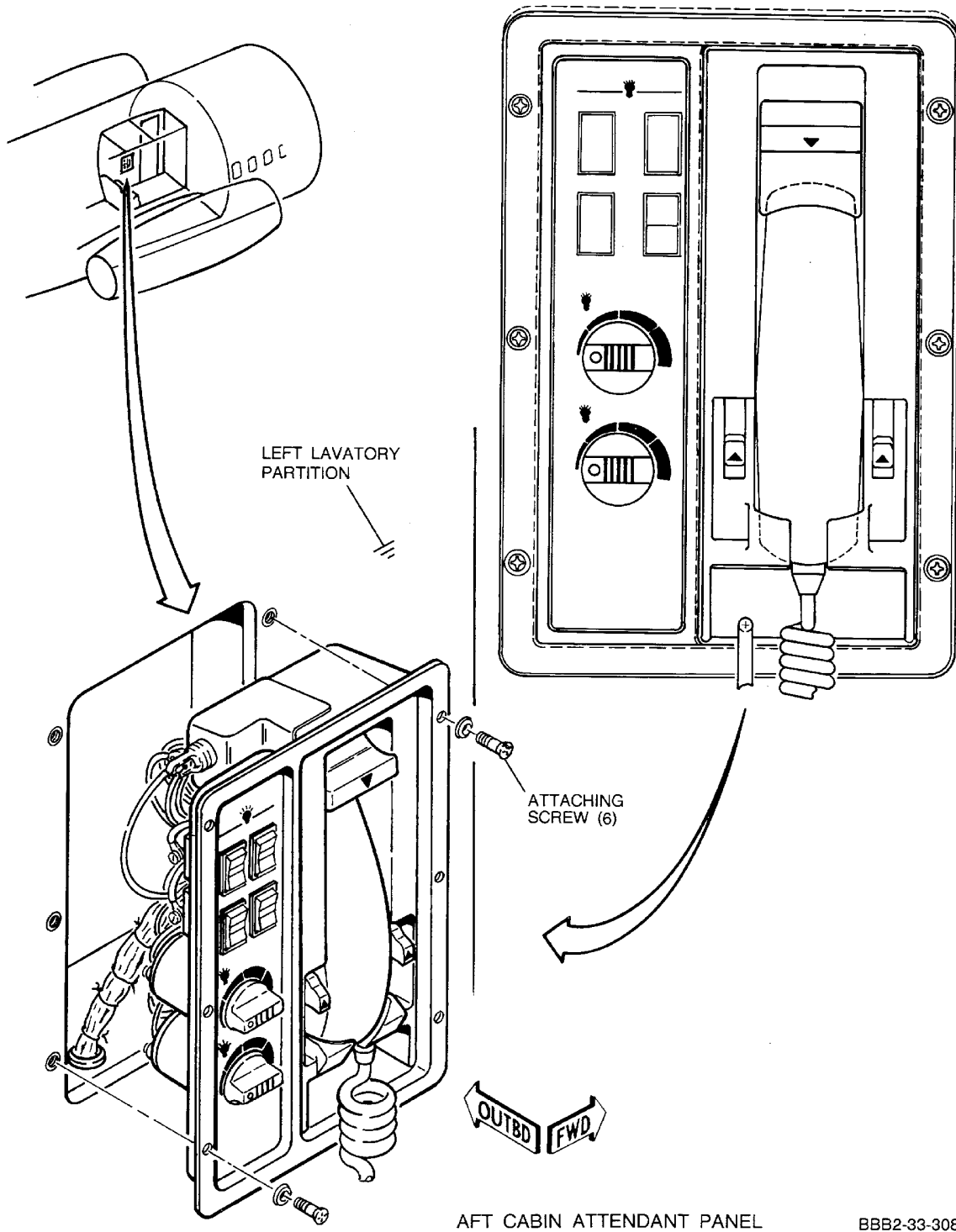
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**33-23-02**

Config 3  
Page 207  
Feb 01/2016



# MD-80 AIRCRAFT MAINTENANCE MANUAL



BBB2-33-308

**Cabin Attendant Panels**  
Figure 201/33-23-02-990-805 (Sheet 2 of 2)

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## 33-23-02

Config 3  
Page 208  
Feb 01/2016

# MD-80 AIRCRAFT MAINTENANCE MANUAL

## CALL SYSTEM COMPONENTS - REMOVAL/INSTALLATION

### 1. General

- A. The following procedures provide instructions for removing and installing the master call lights and passenger call switches. To remove call system components installed on the overhead switch panel or attendants' panels, (Ref. GENERAL, SUBJECT 31-00-00 and CABIN PANELS, SUBJECT 33-23-02).
- B. Most of the call lights fixtures can be relamped by removing the lens; however, it is recommended that the removal/ installation procedures be followed when relamping the master call lights.

### 2. Removal/Installation Call System Components

#### A. Remove Master Call Lights

**WARNING:** TAG AND SAFETY CIRCUIT BREAKER.

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

**LOWER EPC, MISCELLANEOUS LEFT DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
P	37	B1-8	CALL SYSTEM

- (2) Release fasteners on drop ceiling access door to gain access to master call lights fixture.
- (3) Remove cover from fixture and remove lamps.
- (4) Disconnect electrical wiring.
- (5) Remove fixture attaching screws and remove fixture.

#### B. Install Master Call Lights

**WARNING:** TAG AND SAFETY CIRCUIT BREAKER.

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

**LOWER EPC, MISCELLANEOUS LEFT DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
P	37	B1-8	CALL SYSTEM

- (2) Position fixture on access door and install attaching screws.  
**NOTE:** When installing forward fixture, secure door retaining cord with fixture attaching screw.
- (3) Connect electrical wiring.
- (4) Position access door in ceiling and secure fasteners.
- (5) Remove the safety tag and close this circuit breaker:

**LOWER EPC, MISCELLANEOUS LEFT DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
P	37	B1-8	CALL SYSTEM

- (6) Actuate appropriate call switches to check proper operation of master call lights (Ref. CALL SYSTEM COMPONENTS - CHECK, PAGEBLOCK 33-23-03/601).

#### C. Remove Passenger Call Switch

EFFECTIVITY	
WJE ALL	

# 33-23-03

TP-80MM-WJE

Page 401  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

**WARNING:** TAG AND SAFETY CIRCUIT BREAKERS.

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

**LOWER EPC, MISCELLANEOUS LEFT DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
P	37	B1-8	CALL SYSTEM

**UPPER EPC, LIGHTS - LEFT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	20	B1-489	PASSENGER READING-FWD
K	21	B1-296	PASSENGER READING - CENTER
K	22	B1-490	PASSENGER READING-AFT

- (2) Remove call switch lens and lamp.
  - (3) Open applicable passenger utility box door.
  - (4) Disconnect electrical wiring from switch.
  - (5) Loosen switch lock nut on back side of utility box door.
  - (6) Remove finish nut from face of door and remove switch.
- D. Install Passenger Call Switch

**WARNING:** TAG AND SAFETY CIRCUIT BREAKERS.

- (1) Make sure that these circuit breakers are open and have safety tags:

**LOWER EPC, MISCELLANEOUS LEFT DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
P	37	B1-8	CALL SYSTEM

**UPPER EPC, LIGHTS - LEFT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	20	B1-489	PASSENGER READING-FWD
K	21	B1-296	PASSENGER READING - CENTER
K	22	B1-490	PASSENGER READING-AFT

- (2) Position call switch in passenger utility box door and install finish nut.
- (3) Tighten switch lock nut against back side of door to secure switch.
- (4) Connect electrical wiring to switch and close door.
- (5) Install lamp and lens.
- (6) Remove the safety tags and close these circuit breakers:

**LOWER EPC, MISCELLANEOUS LEFT DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
P	37	B1-8	CALL SYSTEM

**UPPER EPC, LIGHTS - LEFT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	20	B1-489	PASSENGER READING-FWD
K	21	B1-296	PASSENGER READING - CENTER
K	22	B1-490	PASSENGER READING-AFT

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

**33-23-03**

Page 402  
Feb 01/2015

**MD-80**  
**AIRCRAFT MAINTENANCE MANUAL**

- (7) Actuate switch to check proper operation of circuit (Ref. CALL SYSTEM COMPONENTS - CHECK, PAGEBLOCK 33-23-03/601).
- E. Remove Lavatory Call Switch
- (1) Remove lavatory mirror lower light fixture (Ref. UTILITY LIGHTS, SUBJECT 33-22-01).
  - (2) Remove call switch lens and lamp.
  - (3) Disconnect electrical wiring from switch.
  - (4) Loosen switch lock nut inside fixture.
  - (5) Remove finish nut from face of fixture and remove switch.
- F. Install Lavatory Call Switch
- (1) Position call switch in lavatory mirror lower light fixture and install finish nut.
  - (2) Tighten switch lock nut inside fixture to secure switch.
  - (3) Connect electrical wiring to switch.
  - (4) Install lavatory mirror lower light fixture (Ref. UTILITY LIGHTS, SUBJECT 33-22-01).
  - (5) Actuate switch and check proper operation of circuit (Ref. CALL SYSTEM COMPONENTS - CHECK, PAGEBLOCK 33-23-03/601).

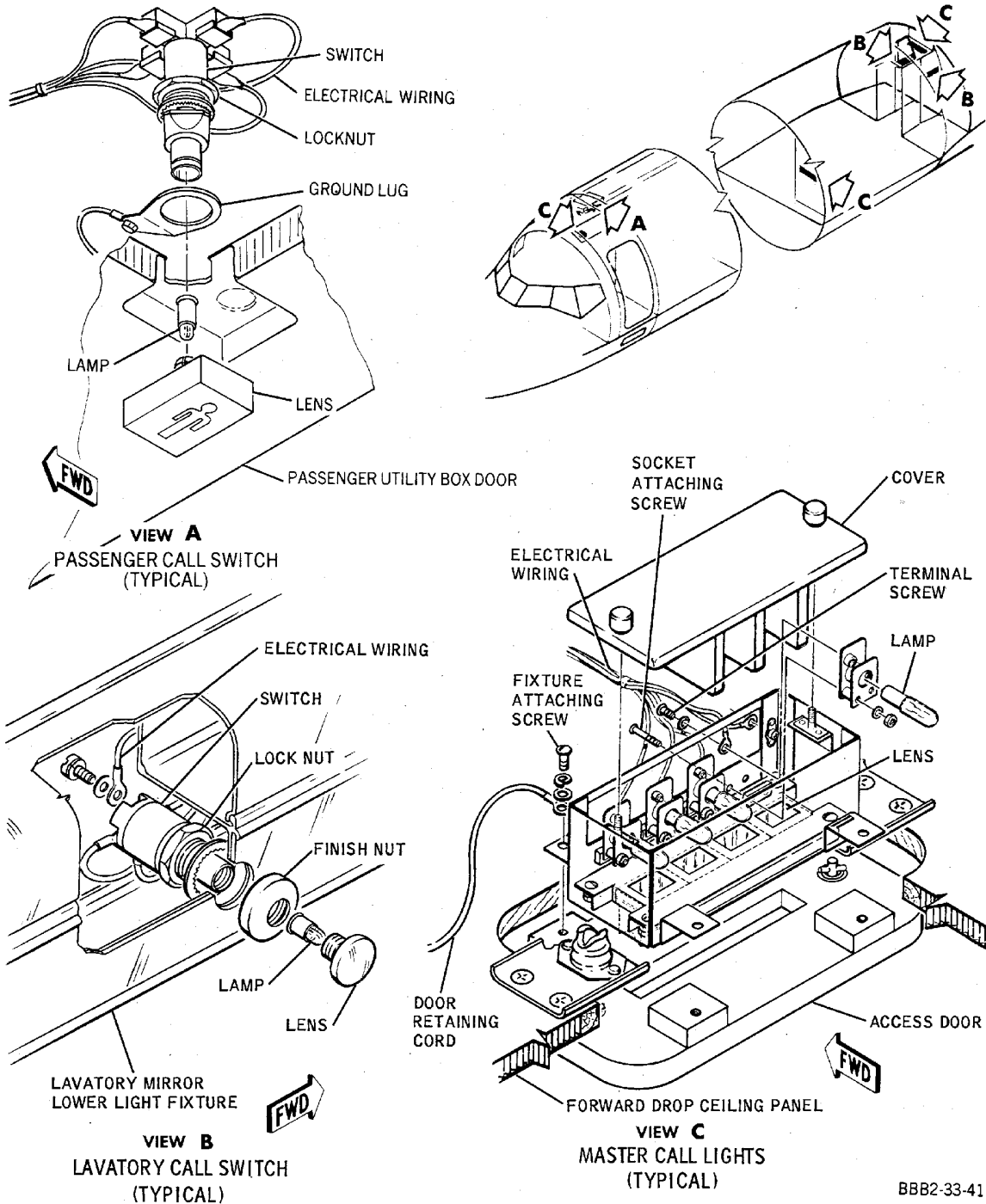
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TP-80MM-WJE

**33-23-03**

Page 403  
Feb 01/2015

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



BBB2-33-41A

**Call System Components -- Removal/Installation**  
Figure 401/33-23-03-990-801

EFFECTIVITY  
WJE ALL

**33-23-03**

TP-80MM-WJE

Page 404  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### CALL SYSTEM COMPONENTS - CHECK

#### 1. General

- A. The following procedures provide a functional check of the call system. As each call switch is actuated, specific colored master call lights should come on and a momentary chime tone should be audible at the cabin speakers located at the attendants' stations. (Ref. COMMUNICATIONS, CHAPTER 23)

#### 2. Check Call System Components

- A. Check Call System Components

- (1) Actuate attendant call switch in flight compartment. Pink master call lights should come on and high-low (bing-bong) chime tone should be audible.

**WJE 401-404, 412, 414, 886, 887**

- (2) Remove and return handset to cradle on either attendant's panel and lights should go off.

**WJE 405-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 891-893**

- (3) Press reset switch on either attendant's panel; lights should go off.

**WJE ALL**

- (4) Check call switch at each attendant's panel as outlined in steps above.  
(5) Actuate call switch in lavatory. Amber master call lights, call light outside lavatory door, and integral light in switch should come on. High (bing) chime tone should be audible.  
(6) Push call switch in lavatory; lights should go off.

**WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893**

- (7) Perform the above step at each lavatory location.

**WJE ALL**

- (8) Actuate call switch at passenger seat. Blue master call lights and integral light in switch should come on. High (bing) chime tone should be audible.  
(9) Push call switch at passenger seat; lights should go off.

**WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893**

- (10) Perform the above step at each seat location.

**WJE ALL**

- (11) Actuate pilot call switch on forward attendant's panel; blue call light on overhead switch panel should come on.  
(12) Push the ATTND CALLING RESET switch on the cockpit overhead panel; blue call light on overhead switch panel should go off.

**WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893**

- (13) Perform the above step at each attendant's panel.

EFFECTIVITY  
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TP-80MM-WJE

**33-23-03**

Page 601  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### CARGO AND SERVICE COMPARTMENT LIGHTS - DESCRIPTION AND OPERATION

#### 1. General

##### WJE 410

- A. The cargo and service compartment lights are installed in the various compartments and accessory areas to facilitate cargo loading, area inspection, and servicing. Control switches are located in most of the compartments adjacent to the access doors. The cargo compartment lights can also be operated by the inspection light switches, located directly beneath the cargo compartment access doors in the passenger compartment floor, at stations 351, 560, and 1049. The nose wheelwell and forward accessory compartment lights are controlled by the switch on the external power receptacle panel. The main wheelwell lights are controlled by switches on the external power receptacle panel and another adjacent to the viewing port in the passenger compartment floor. A separate switch installed in the electrical/electronic compartment controls the lights for this area. The water service panel light switch is installed on the water service panel. Lights located in the tail section area and aft accessory compartment can be operated by either of two switches. Both light assemblies incorporate emergency lights.

(EMERGENCY LIGHTS, SUBJECT 33-53-00)

##### WJE 401-409, 411, 412, 414-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893

- B. The cargo and service compartment lights are installed in the various compartments and accessory areas to facilitate cargo loading, area inspection, and servicing. Control switches are located in most of the compartments adjacent to the access doors. The cargo compartment lights can also be operated by the inspection light switches, located directly beneath the cargo compartment access doors in the passenger compartment floor, at stations 408R, 674R, and 1193R. The nose wheelwell and forward accessory compartment lights are controlled by the switch on the external power receptacle panel. The main wheelwell lights are controlled by switches on the external power receptacle panel and another adjacent to the viewing port in the passenger compartment floor. A separate switch installed in the electrical/electronic compartment controls the lights for this area. The water service panel light switch is installed on the water service panel. Lights located in the tail section area and aft accessory compartment can be operated by either of two switches. Both light assemblies incorporate emergency lights.

(EMERGENCY LIGHTS, SUBJECT 33-53-00)

##### WJE ALL

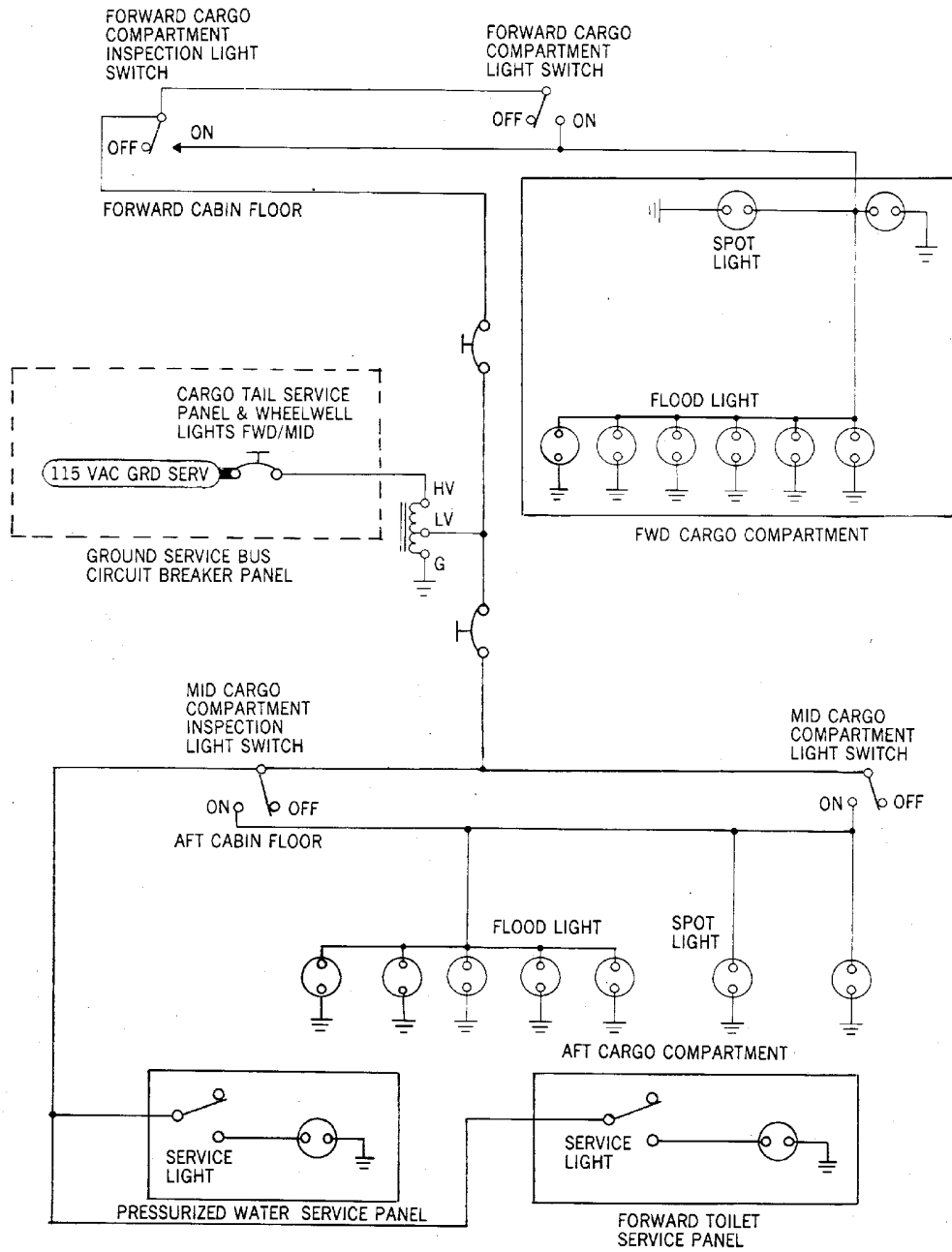
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TP-80MM-WJE

**33-30-00**

Page 1  
Feb 01/2016

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



BBB2-33-42

**Cargo Compartment Lights -- Simplified Schematic**  
Figure 1/33-30-00-990-806 (Sheet 1 of 2)

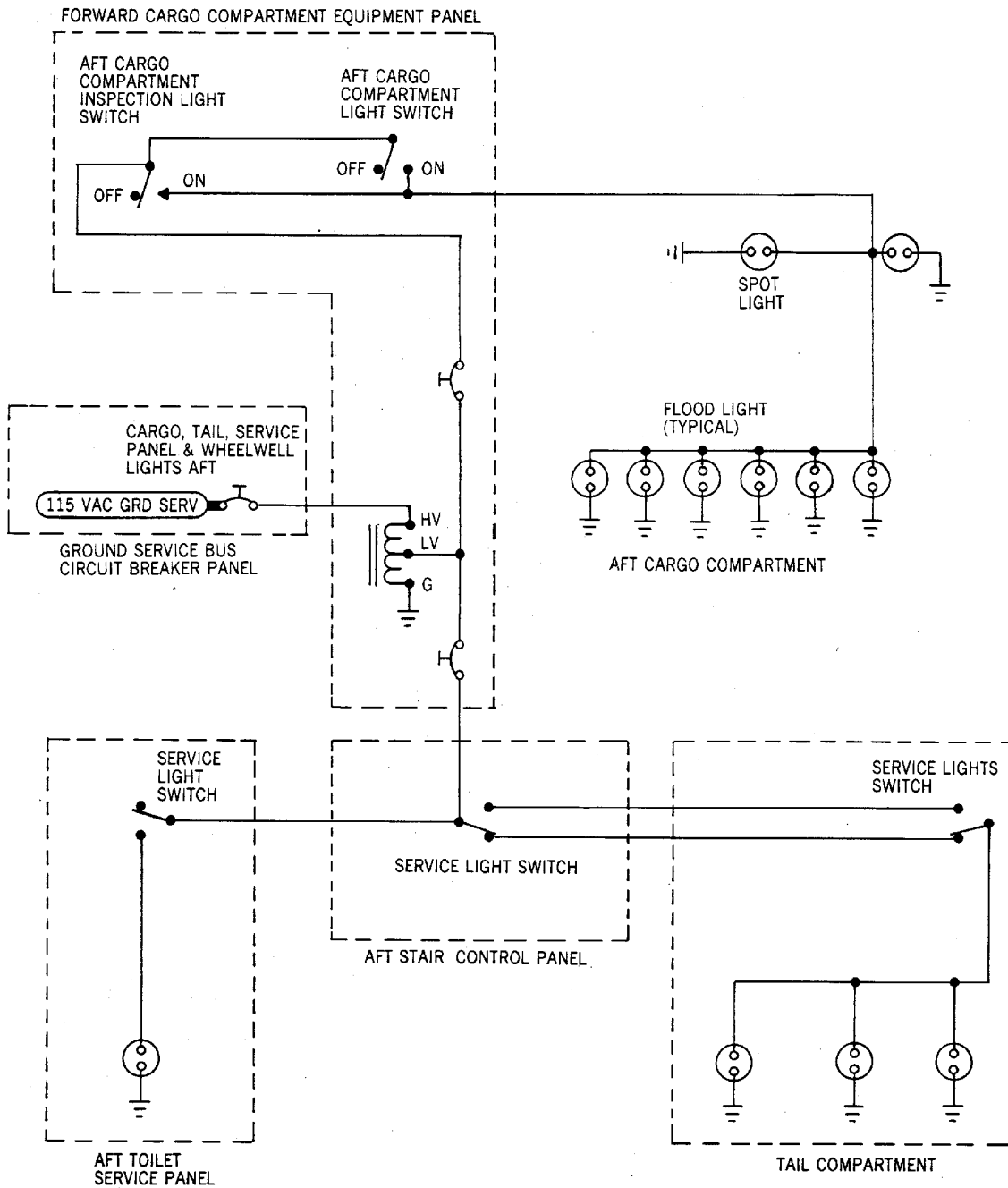
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TP-80MM-WJE



**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



BB82-33-43

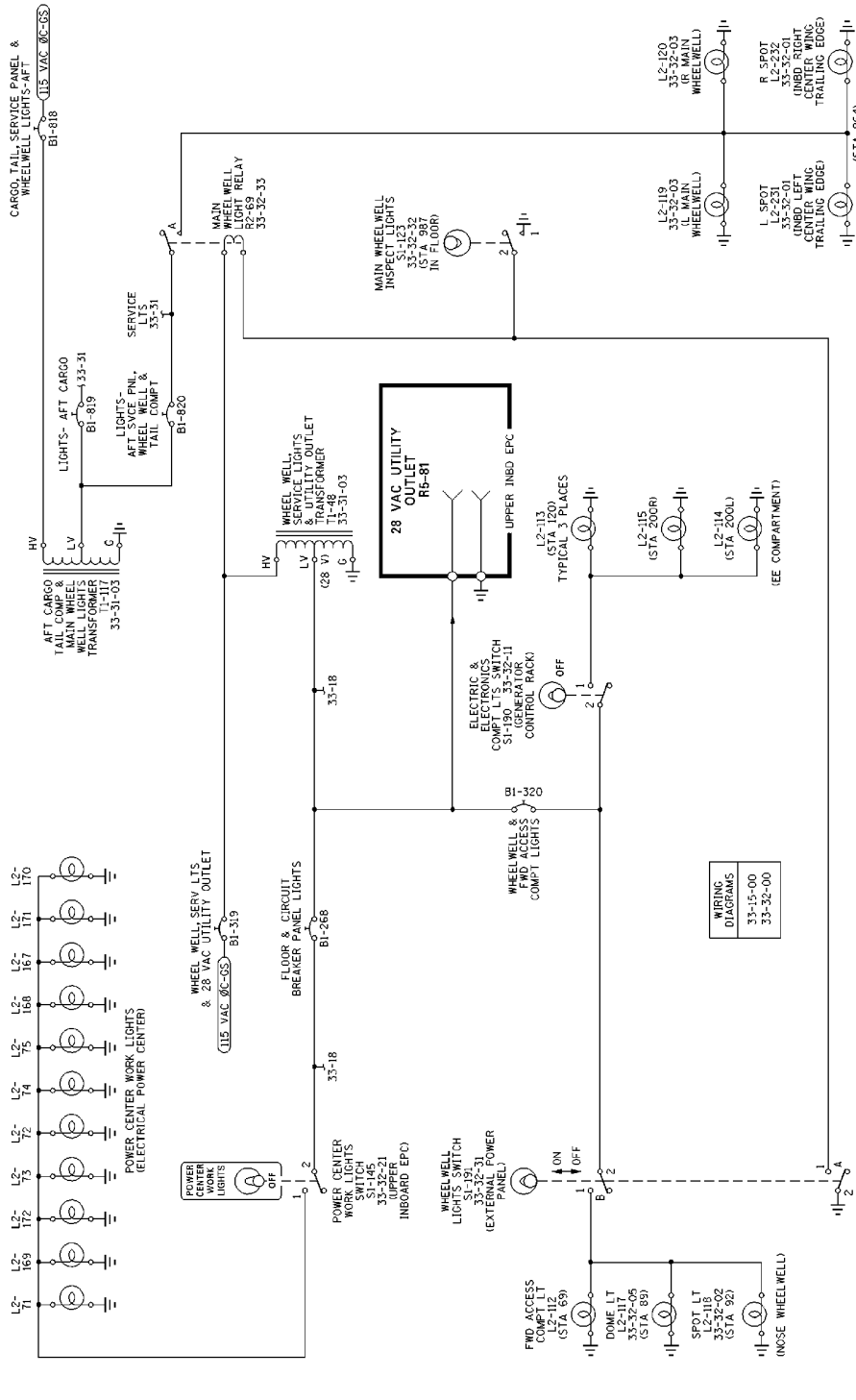
**Cargo Compartment Lights -- Simplified Schematic**  
Figure 1/33-30-00-990-806 (Sheet 2 of 2)

EFFECTIVITY  
WJE ALL

**33-30-00**

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# MD-80 AIRCRAFT MAINTENANCE MANUAL



Wheelwell and Service Lights - Simplified Schematic  
Figure 2/33-30-00-990-807

BBB2-33-44B

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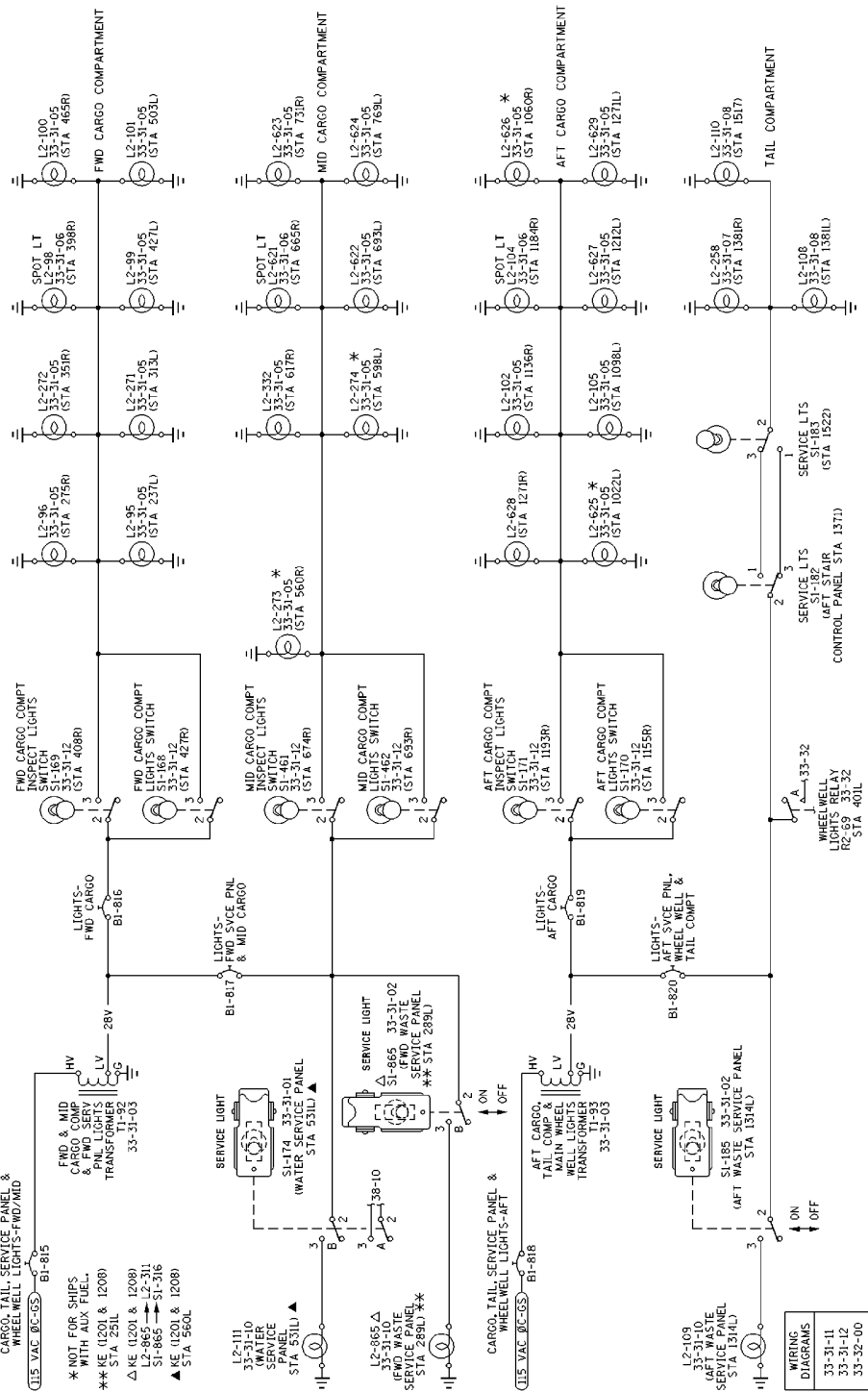
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# MD-80 AIRCRAFT MAINTENANCE MANUAL



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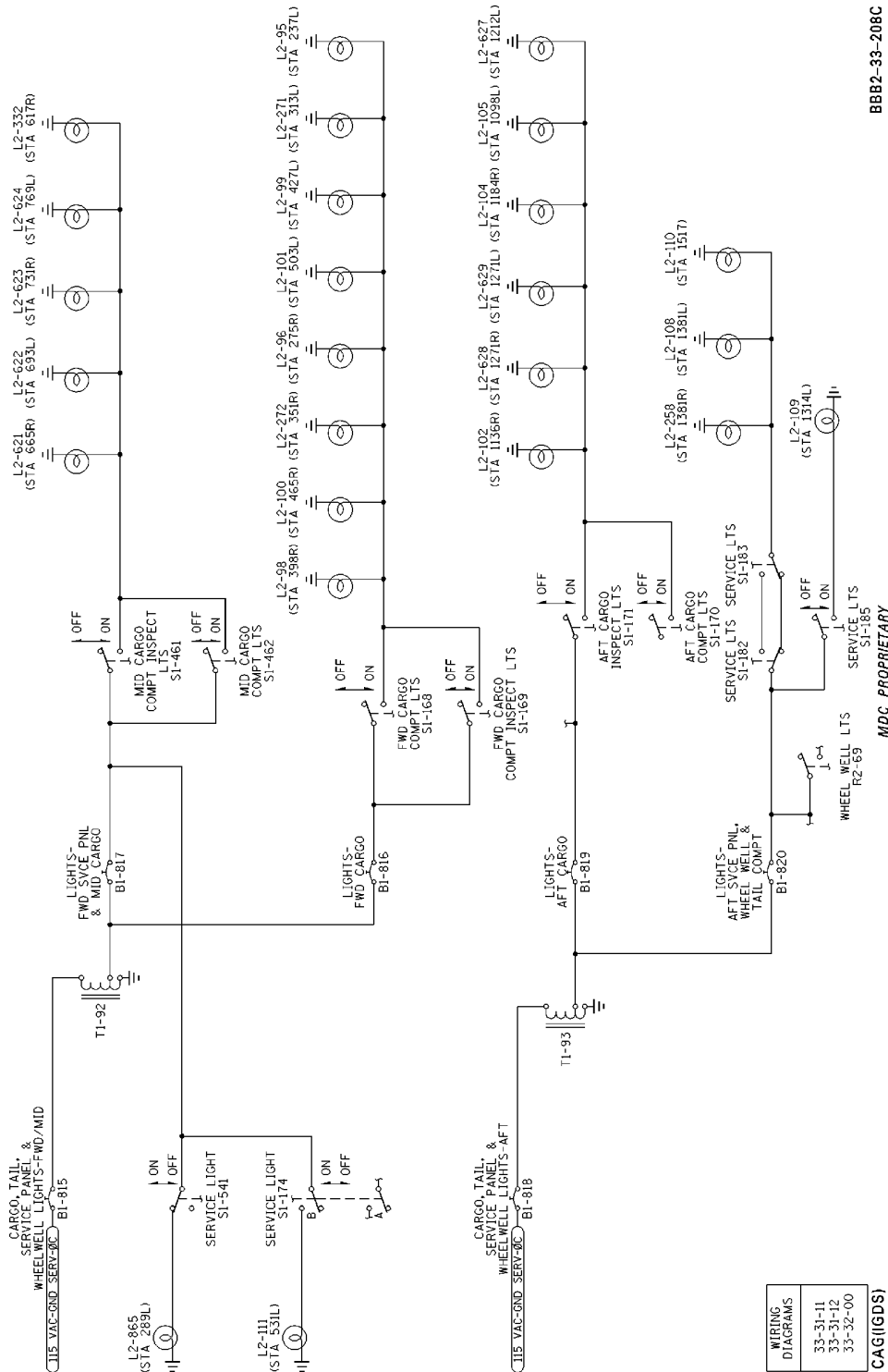
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**Cargo, Tail, Service Panel and Water Service Lights -- Schematic  
Figure 3/33-30-00-990-808 (Sheet 1 of 2)**

EFFECTIVITY  
WJE ALL

**33-30-00**

# MD-80 AIRCRAFT MAINTENANCE MANUAL



**Cargo, Tail Compartment and Water Service Lights -- Schematic**  
**Figure 3/33-30-00-990-808 (Sheet 2 of 2)**

EFFECTIVITY  
WJE ALL

**33-30-00**

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### CARGO AND SERVICE COMPARTMENT LIGHTS - MAINTENANCE PRACTICES

#### 1. General

- A. This procedure has the maintenance practices for cargo service compartment lights.
- B. The cargo service compartment lights consist of cargo compartment, accessory compartment, electrical/electronic compartment, wheelwell and water service panel lights.

#### 2. Removal/Installation Cargo and Service Compartment Lights

- A. Remove Cargo and Service Compartment Lights

**WARNING:** TAG AND SAFETY CIRCUIT BREAKER.

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

##### **EE COMPARTMENT**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-320	WHEELWELL & FWD ACCESS COMPT LIGHTS

##### **LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-818	CARGO, TAIL, SERVICE PANEL & WHEELWELL LIGHTS AFT
		B1-815	CARGO, TAIL, SERVICE PANEL & WHEELWELL LIGHTS FWD/MID
		B1-319	WHEELWELL SERV LTS & 28 VAC UTILITY OUTLET

- (2) Gain access to lamp and attaching screws.
- (3) Remove lens/cover from fixture. On nose wheelwell light, remove retaining ring.
- (4) Remove lamp.
- (5) If necessary, remove the main gear wheelwell dome light assembly.
- (6) For main landing gear inspection lights, socket may also be removed at this time by depressing detent with pin. Wire should be disconnected and tagged.
- (7) Remove screws which attach fixture.
- (8) Disconnect and tag electrical wiring.
- (9) Remove light fixture.

- B. Install Cargo and Service Compartment Lights

**WARNING:** TAG AND SAFETY CIRCUIT BREAKERS.

- (1) Make sure that these circuit breakers are open:

##### **EE COMPARTMENT**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-320	WHEELWELL & FWD ACCESS COMPT LIGHTS

##### **LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-818	CARGO, TAIL, SERVICE PANEL & WHEELWELL LIGHTS AFT
		B1-815	CARGO, TAIL, SERVICE PANEL & WHEELWELL LIGHTS FWD/MID
		B1-319	WHEELWELL SERV LTS & 28 VAC UTILITY OUTLET

EFFECTIVITY  
WJE ALL

# 33-30-00

TP-80MM-WJE

## MD-80 AIRCRAFT MAINTENANCE MANUAL

- (2) Connect electrical wiring to fixture.

NOTE: For main landing gear inspection lights, wire can be connected to socket after fixture is installed in aircraft.

**WJE ALL POST MD80-33-104**

- (3) To replace the main landing gear dome light assembly, install P/N 09033120-1 dome light assembly.

**WJE ALL**

- (4) Position fixture and install attaching screws.
- (5) For main landing gear inspection lights only, connect electrical wire to socket. Install socket in housing; detent must be seated in detent index hole.
- (6) Install lamp.
- (7) Install lens/cover on fixture. On nose wheelwell light, install retaining ring.
- (8) When a service light lamp is replaced, it is recommended to inspect the three (3) lens cover retaining clips located inside the light assembly to ensure the clips are not broken, bent or loose before reinstalling the lens cover.
- (a) If a broken, bent or loose retainer clip is observed, it is recommended that the service light assembly be replaced. This will ensure that the lens cover is securely installed on the service light assembly.
- (9) Remove the safety tags and close these circuit breakers:

**EE COMPARTMENT**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-320	WHEELWELL & FWD ACCESS COMPT LIGHTS

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-818	CARGO, TAIL, SERVICE PANEL & WHEELWELL LIGHTS AFT
		B1-815	CARGO, TAIL, SERVICE PANEL & WHEELWELL LIGHTS FWD/MID
		B1-319	WHEELWELL SERV LTS & 28 VAC UTILITY OUTLET

- (10) Place appropriate switch in the ON position to check proper operation of lights.
- (11) Focus landing gear inspection lights to illuminate stripes on landing gear overcenter links with landing gear in down and locked position.

**3. Removal/Installation Service Panel Lights**

- A. Remove Service Panel Lights

**WARNING:** TAG AND SAFETY CIRCUIT BREAKERS.

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

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-818	CARGO, TAIL, SERVICE PANEL & WHEELWELL LIGHTS AFT
		B1-815	CARGO, TAIL, SERVICE PANEL & WHEELWELL LIGHTS FWD/MID

- (2) Open service panel access door.

<p>EFFECTIVITY</p> <p>WJE ALL</p>	
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33-30-00

TP-80MM-WJE

## MD-80 AIRCRAFT MAINTENANCE MANUAL

- (3) Remove light cap and lamp.
- (4) Remove attaching screws and lift light and switch mounting plate from panel.  
NOTE: Access can be gained to back of fuel service panel by loosening fasteners and swinging hinged panel down.
- (5) Disconnect and tag electrical wiring.
- (6) Remove light socket and/or switch from mounting plate.

**B. Install Service Panel Lights**

**WARNING: TAG AND SAFETY CIRCUIT BREAKERS.**

- (1) Make sure that these circuit breakers are open:

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-818	CARGO, TAIL, SERVICE PANEL & WHEELWELL LIGHTS AFT
		B1-815	CARGO, TAIL, SERVICE PANEL & WHEELWELL LIGHTS FWD/MID

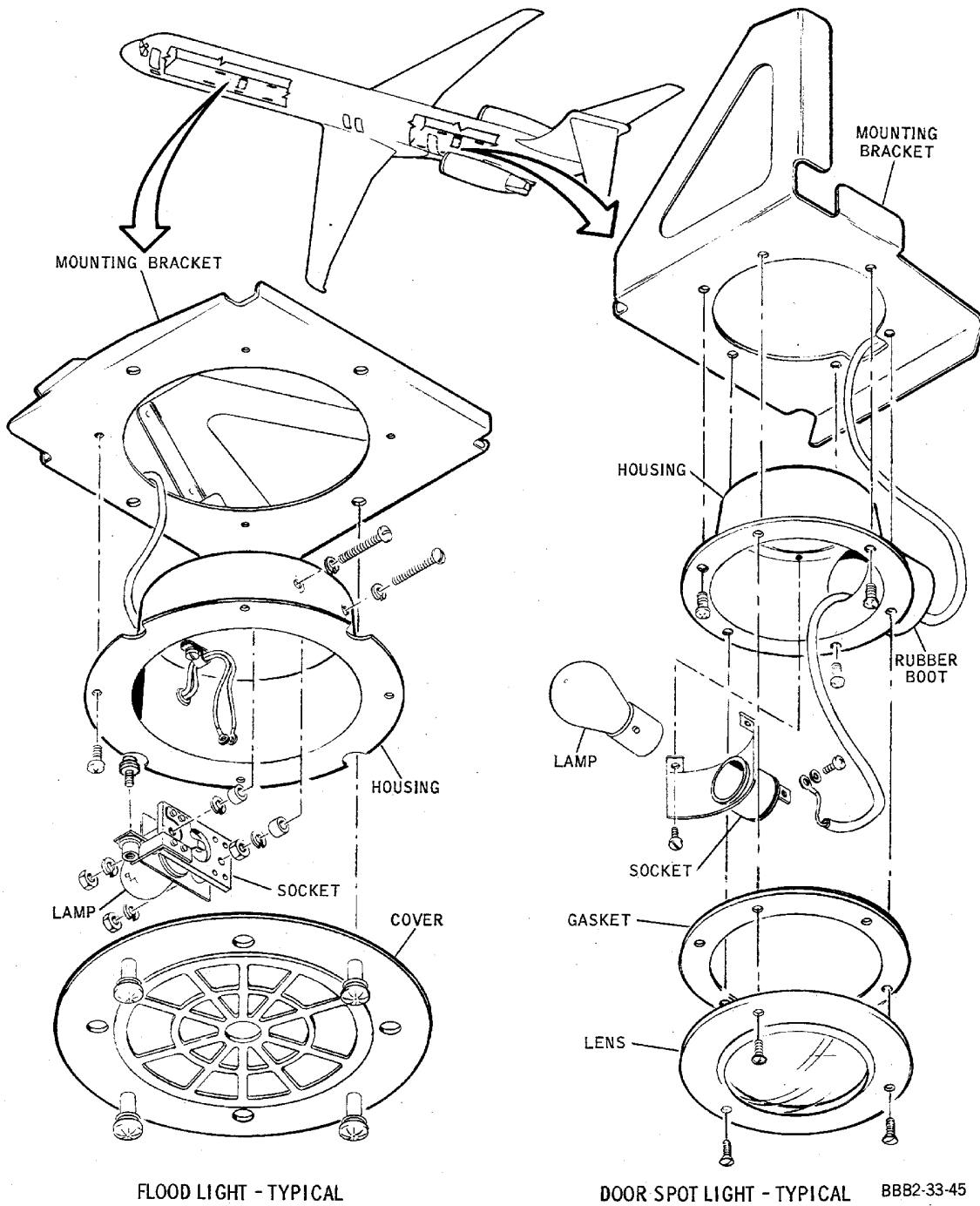
- (2) Install light socket and/or switch on mounting plate.
- (3) Connect electrical wiring to light socket and/or switch.
- (4) Position light and switch mounting plate and secure with screws/fasteners.
- (5) Install lamp and light cap.
- (6) Remove the safety tags and close these circuit breakers:

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-818	CARGO, TAIL, SERVICE PANEL & WHEELWELL LIGHTS AFT
		B1-815	CARGO, TAIL, SERVICE PANEL & WHEELWELL LIGHTS FWD/MID

- (7) Place appropriate switch in on position to check proper operation of lights.
- (8) Close and secure service panel access doors.

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



FLOOD LIGHT - TYPICAL

DOOR SPOT LIGHT - TYPICAL BBB2-33-45

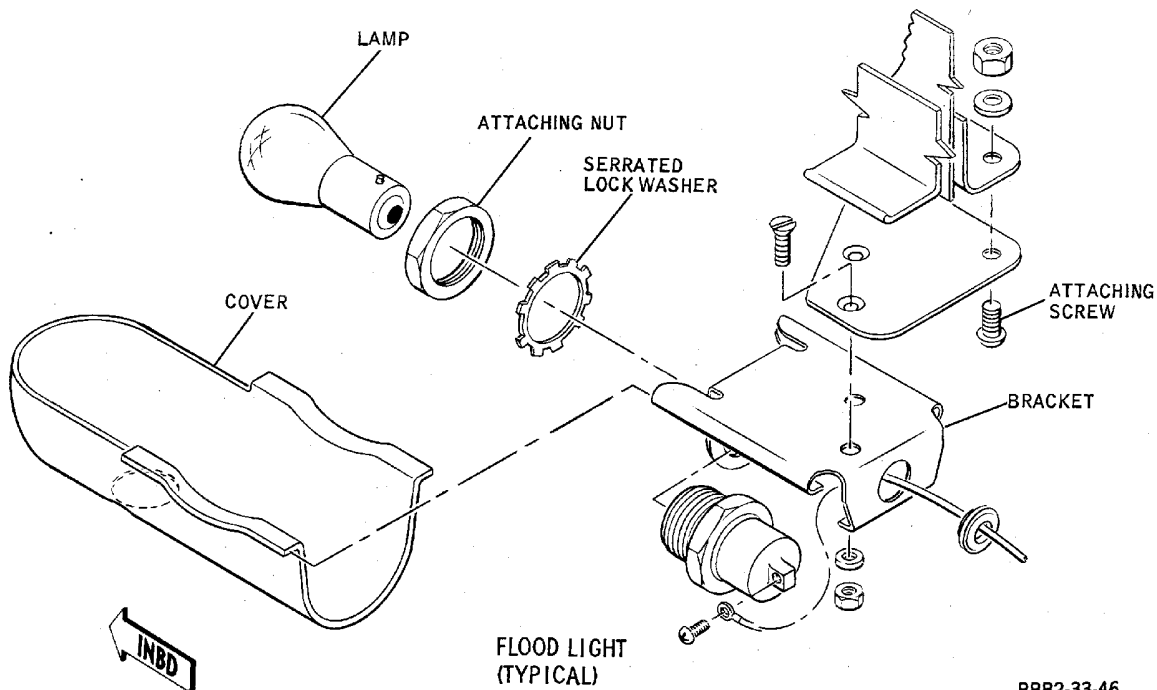
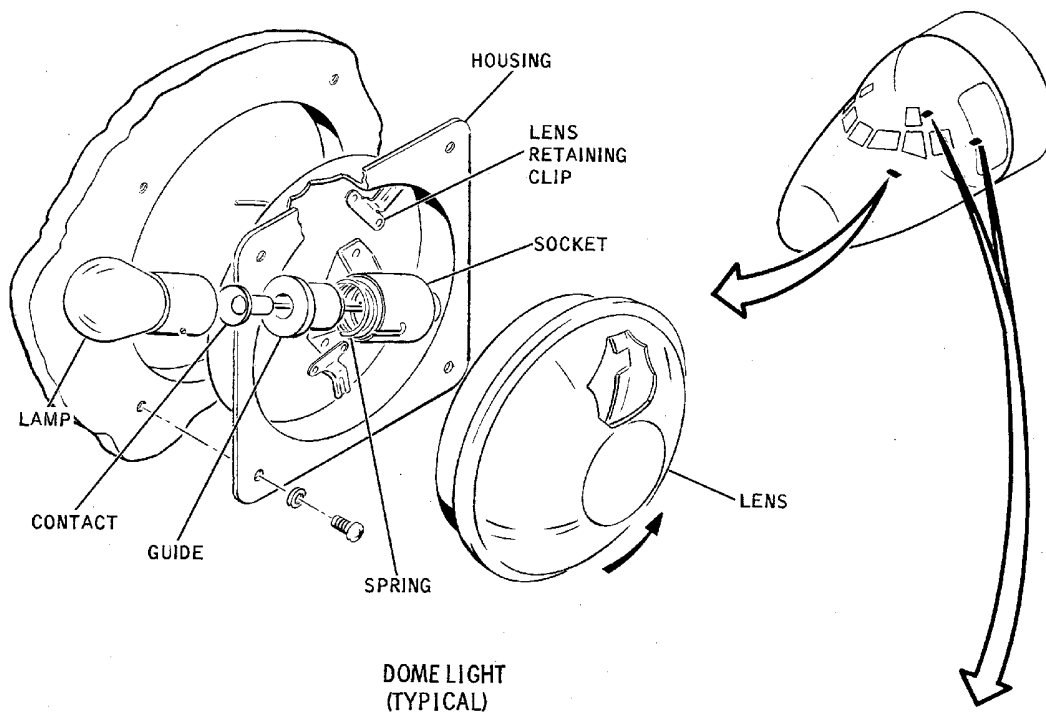
**Cargo Compartment Lights -- Removal/Installation**  
Figure 201/33-30-00-990-801

EFFECTIVITY  
WJE ALL

**33-30-00**



**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



BBB2-33-46

**Electrical/Electronic Compartment Lights -- Removal/Installation  
Figure 202/33-30-00-990-802**

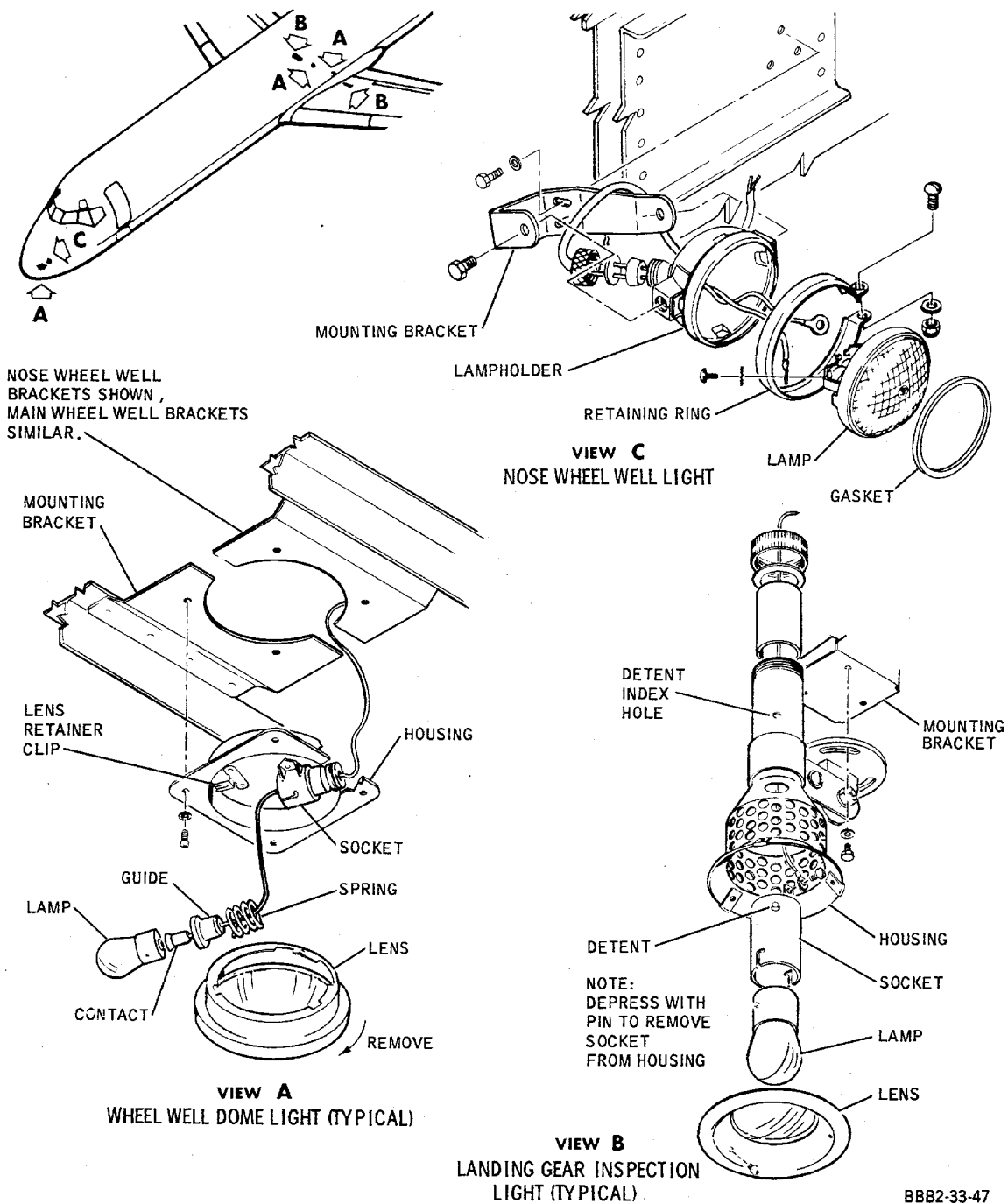
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TP-80MM-WJE

Page 205  
Feb 01/2015

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



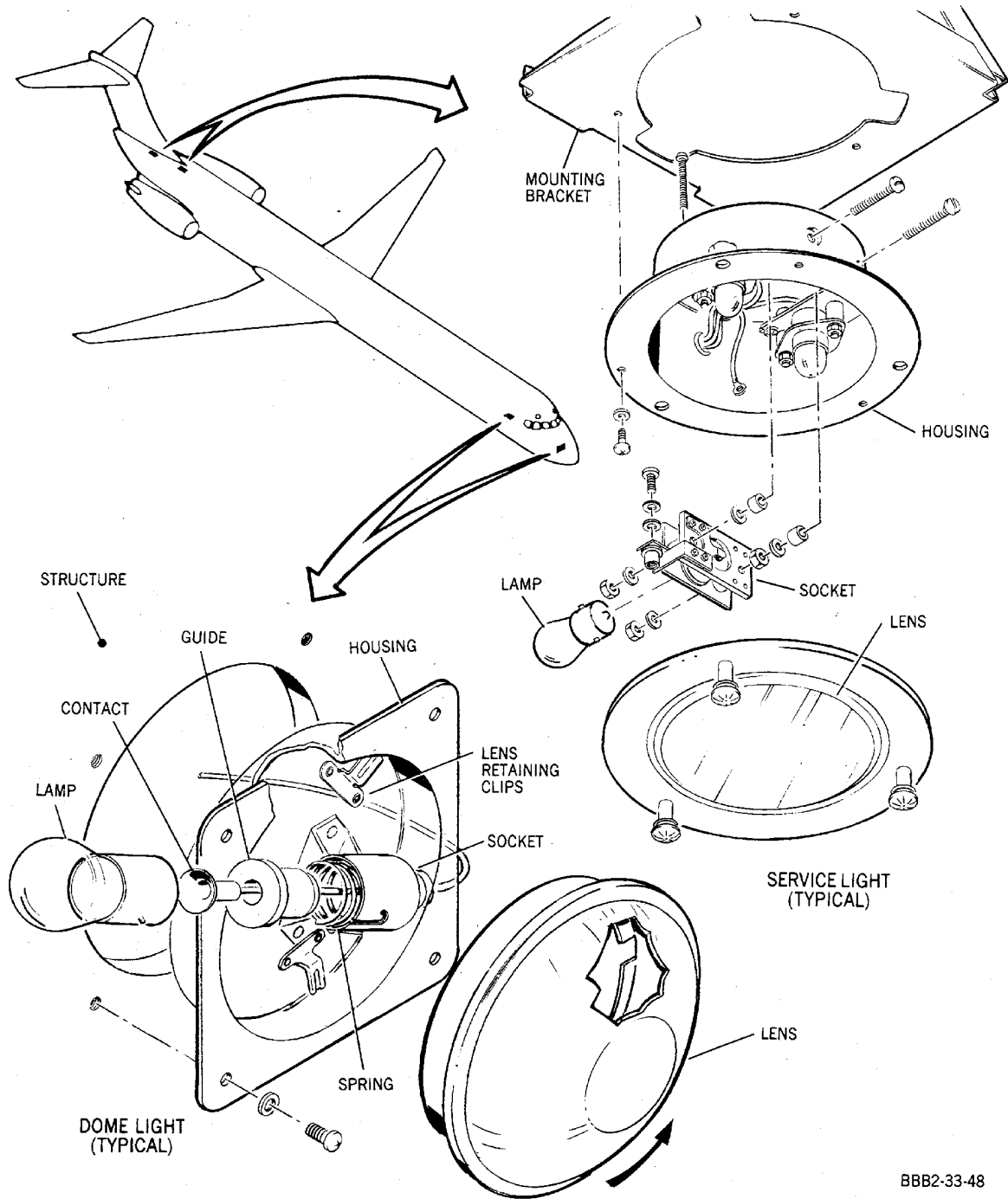
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**Wheelwell Lights -- Removal/Installation  
Figure 203/33-30-00-990-803**

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TP-80MM-WJE

# MD-80 AIRCRAFT MAINTENANCE MANUAL



BBB2-33-48

**Accessory Compartment Lights -- Removal/Installation**  
**Figure 204/33-30-00-990-804**

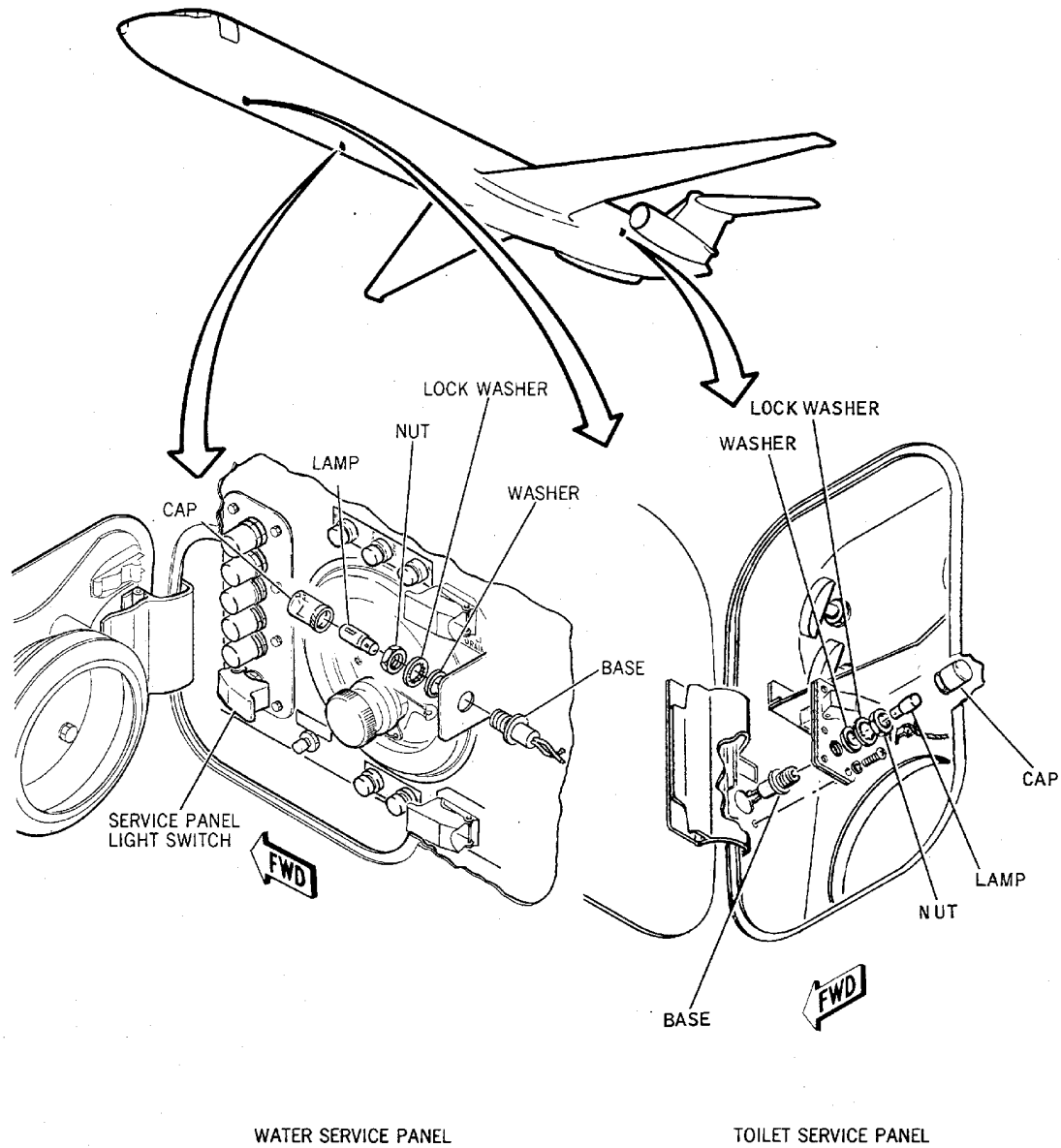
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## 33-30-00

TP-80MM-WJE

Page 207  
Feb 01/2015

# MD-80 AIRCRAFT MAINTENANCE MANUAL



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Service Panel Lights -- Removal/Installation  
Figure 205/33-30-00-990-805

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## 33-30-00

TP-80MM-WJE

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**

**CARGO AND SERVICE COMPARTMENT LIGHTS - ADJUSTMENT/TEST**

**1. General**

A. This procedure contains MSG-3 task card data.

**TASK 33-30-00-710-801**

**2. Operational Check of the Main Wheel Well Lights Using the Cabin Floor Switch**

**A. Prepare for the Operational Check of the Main Wheel Well Lights Using the Cabin Floor Switch**

SUBTASK 33-30-00-010-001

(1) Pull back the carpet above the left wheel well and remove the cover.

**B. Operational Check of the Main Wheel Well Lights Using the Cabin Floor Switch**

SUBTASK 33-30-00-710-001

(1) Do the operational check of the main wheel well lights using the cabin floor switch.

(a) Place and hold the light switch to the on position.

(b) Make sure the left and right wheel well lights come on.

(c) Release the switch and make sure both the left and right wheel well lights are off.

**C. Job Close up**

SUBTASK 33-30-00-410-001

(1) Close cover and reinstall carpet.

SUBTASK 33-30-00-942-001

(2) Remove all the tools and equipment from the work area. Make sure the area is clean.

———— **END OF TASK** ————

EFFECTIVITY  
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TP-80MM-WJE

**33-30-00**

Page 501  
Feb 01/2015

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**

**EXTERIOR LIGHTS - DESCRIPTION AND OPERATION**

**1. General**

- A. The exterior lights provide, through separate controls, a high-intensity light pattern that can be modified selectively to meet requirements of lighting in adverse weather conditions.

**WJE 409, 873, 874, 884, 892, 893**

- B. The lights consist of landing and taxi lights, anticollision recognition lights, forward and aft position lights, ground floodlights, wing and nacelle scanning lights, and passenger forward entrance door stair lights.

**WJE 401-408, 410-412, 414-427, 429, 861-866, 868, 869, 871, 872, 875-881, 883, 886, 887, 891**

- C. The lights consist of landing and taxi lights, anticollision recognition lights, forward and aft position lights, ground floodlights, wing and nacelle scanning lights, passenger forward entrance door stair lights, and logo lights.

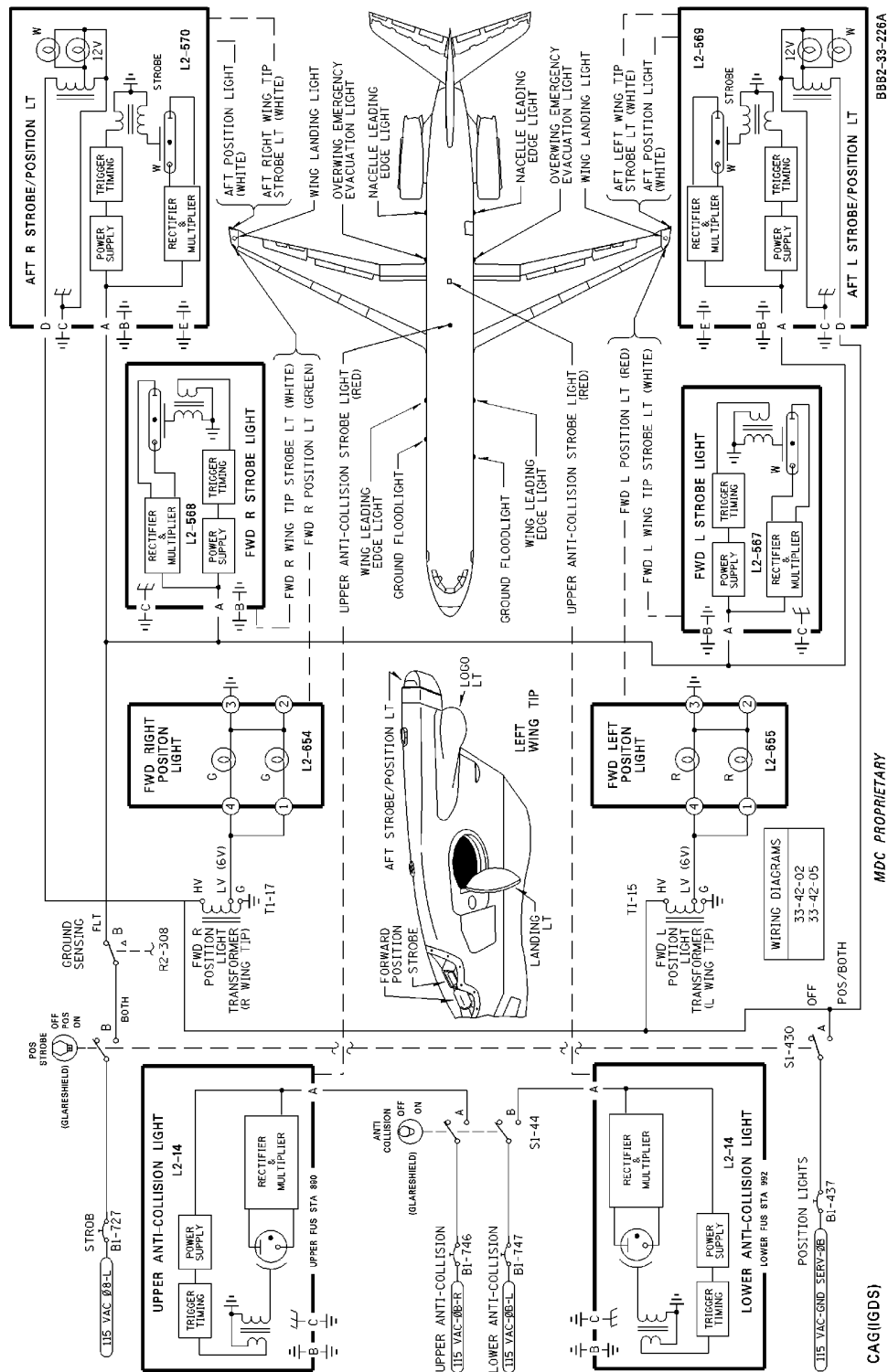
EFFECTIVITY  
WJE ALL

TP-80MM-WJE

**33-40-00**

Page 1  
Feb 01/2016

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



**Logo, Wing, Nacelle and Ground Floodlights - Schematic  
Figure 1/33-40-00-990-801**

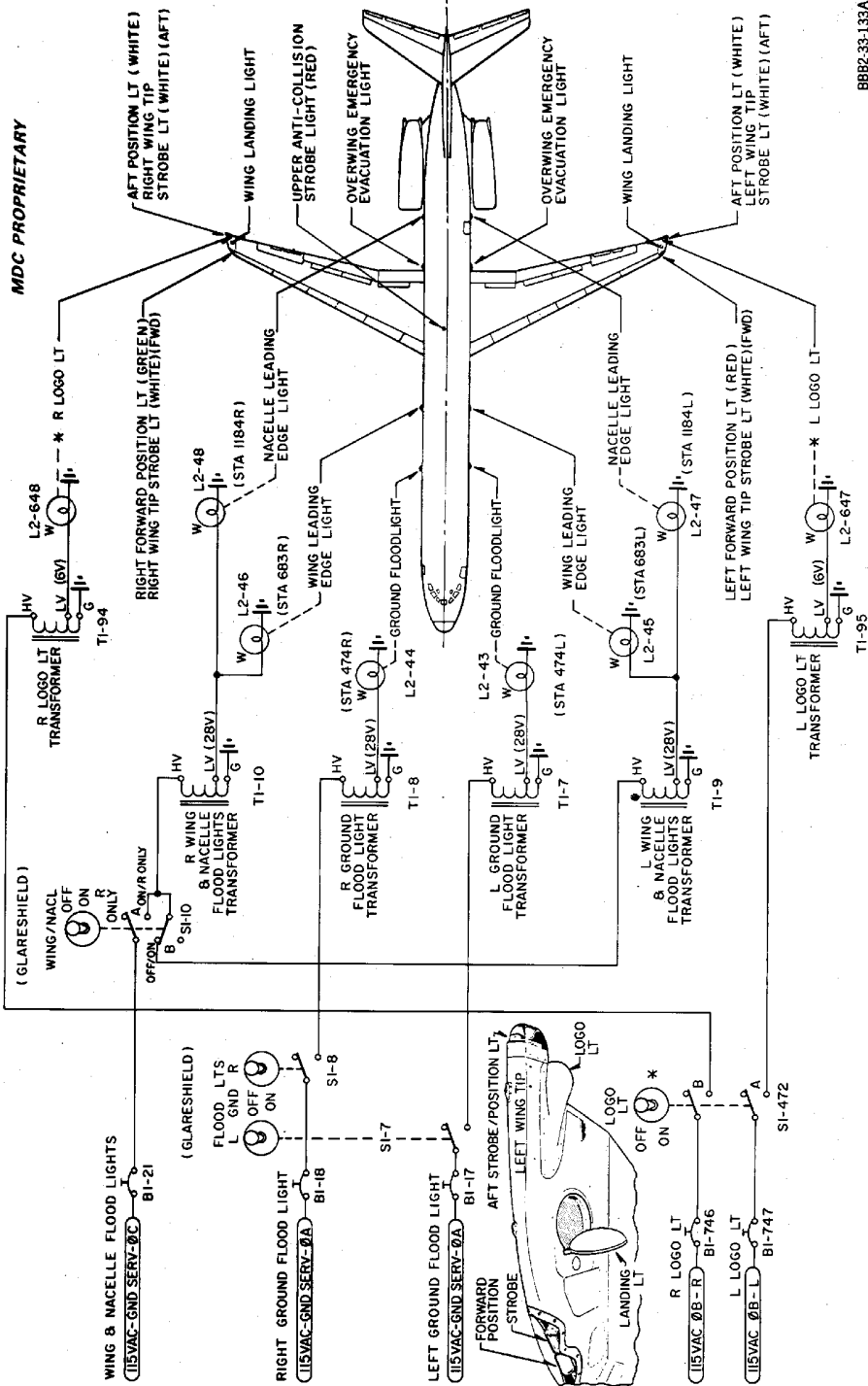
**EFFECTIVITY**  
WJE 401-404, 407, 408, 411, 412, 414-427, 429,  
861-866, 868, 869, 871, 872, 875-880, 891

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Page 2  
Feb 01/2016

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**MD-80**  
**AIRCRAFT MAINTENANCE MANUAL**



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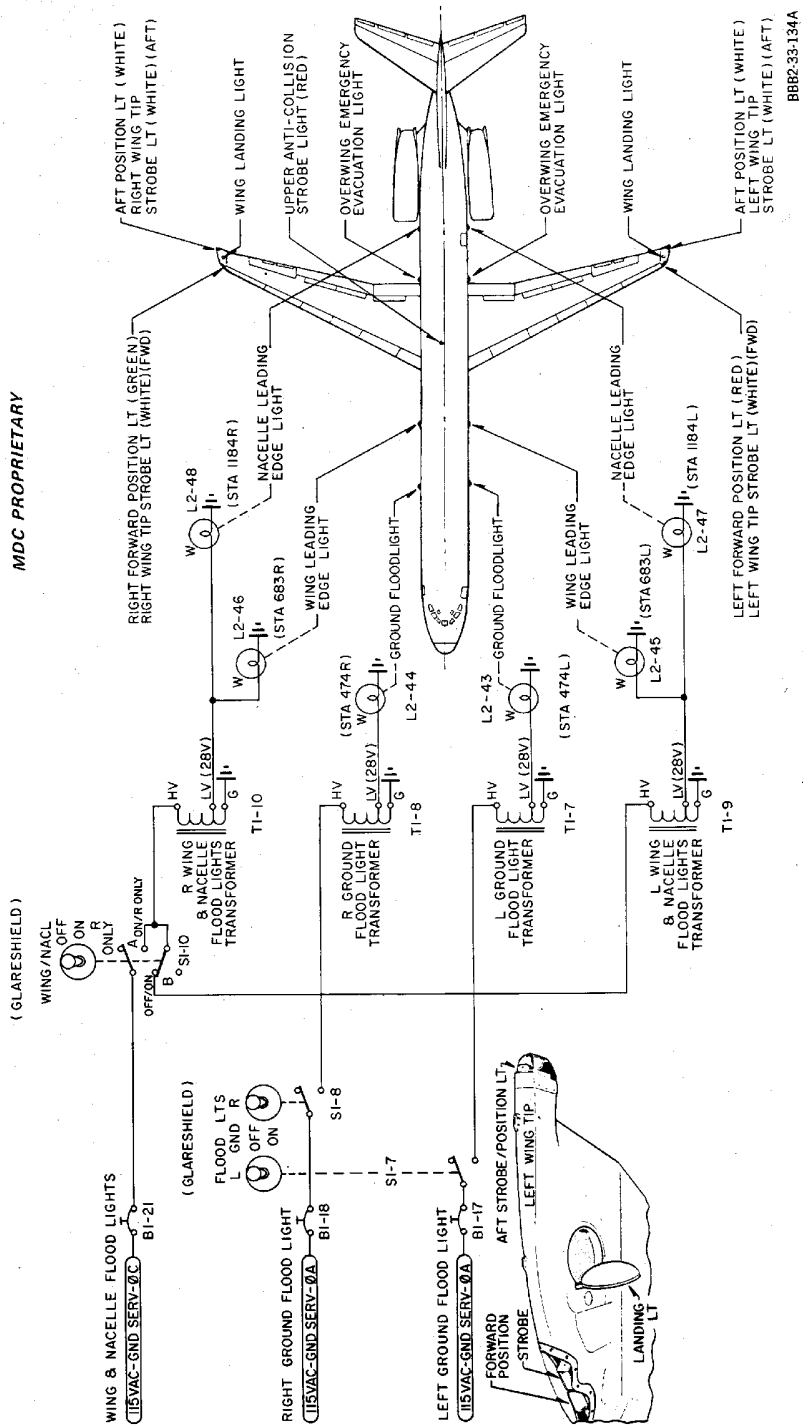
**Wing, Nacelle, Position and Ground Floodlights**  
**Figure 2/33-40-00-990-805 (Sheet 1 of 3)**

**EFFECTIVITY**  
WJE 401-408, 410-412, 414-427, 429, 861-866, 868, 869, 871, 872, 875-881, 883, 886, 887, 891

**33-40-00**



**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



**Wing, Nacelle, Position and Ground Floodlights  
Figure 2/33-40-00-990-805 (Sheet 2 of 3)**

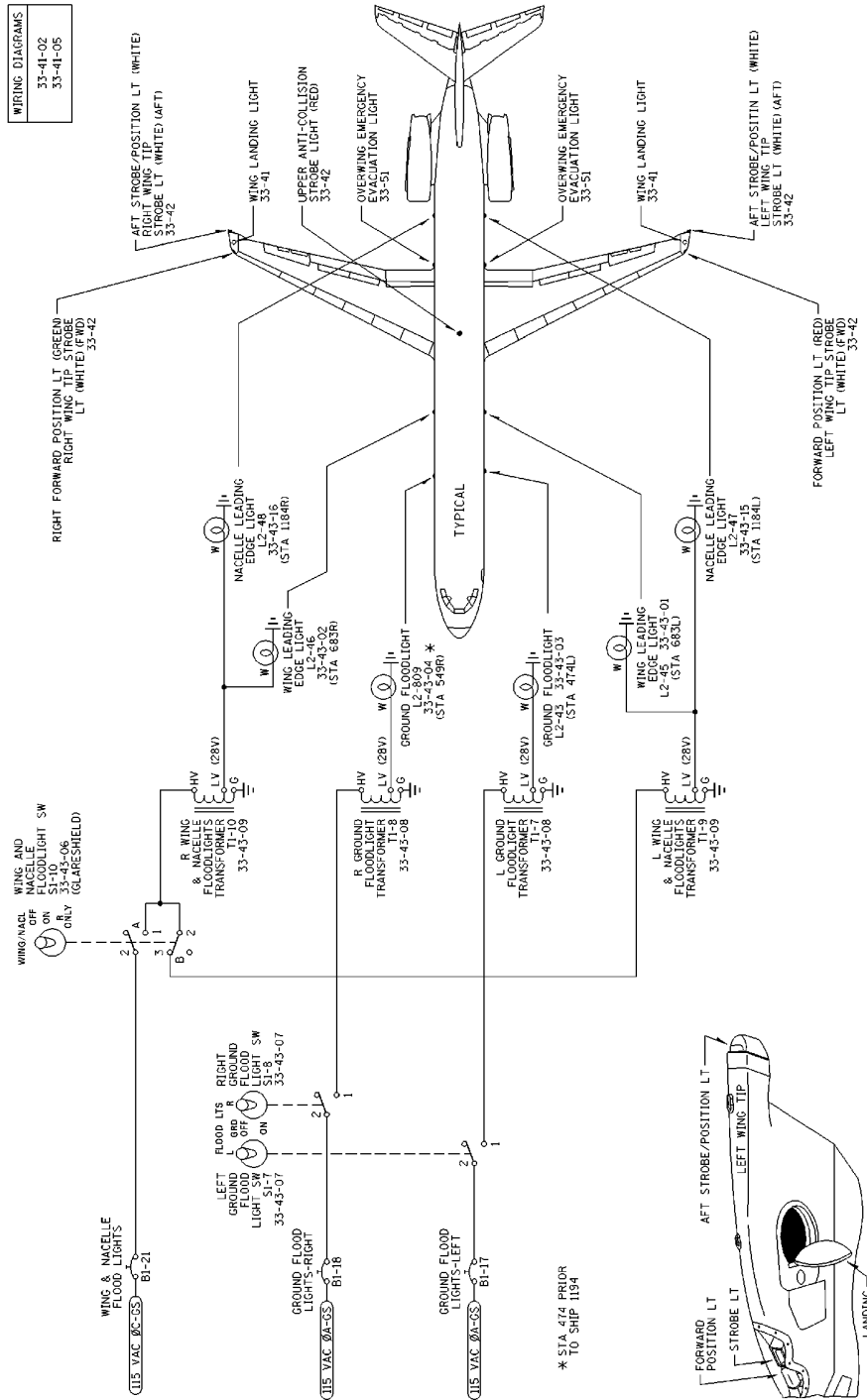
EFFECTIVITY  
WJE 409, 873, 874, 884, 892, 893

TP-80MM-WJE

**33-40-00**

Page 4  
Feb 01/2015

# MD-80 AIRCRAFT MAINTENANCE MANUAL



WIRING DIAGRAMS  
33-41-02  
33-41-05

BBB2-33-511

MDC PROPRIETARY

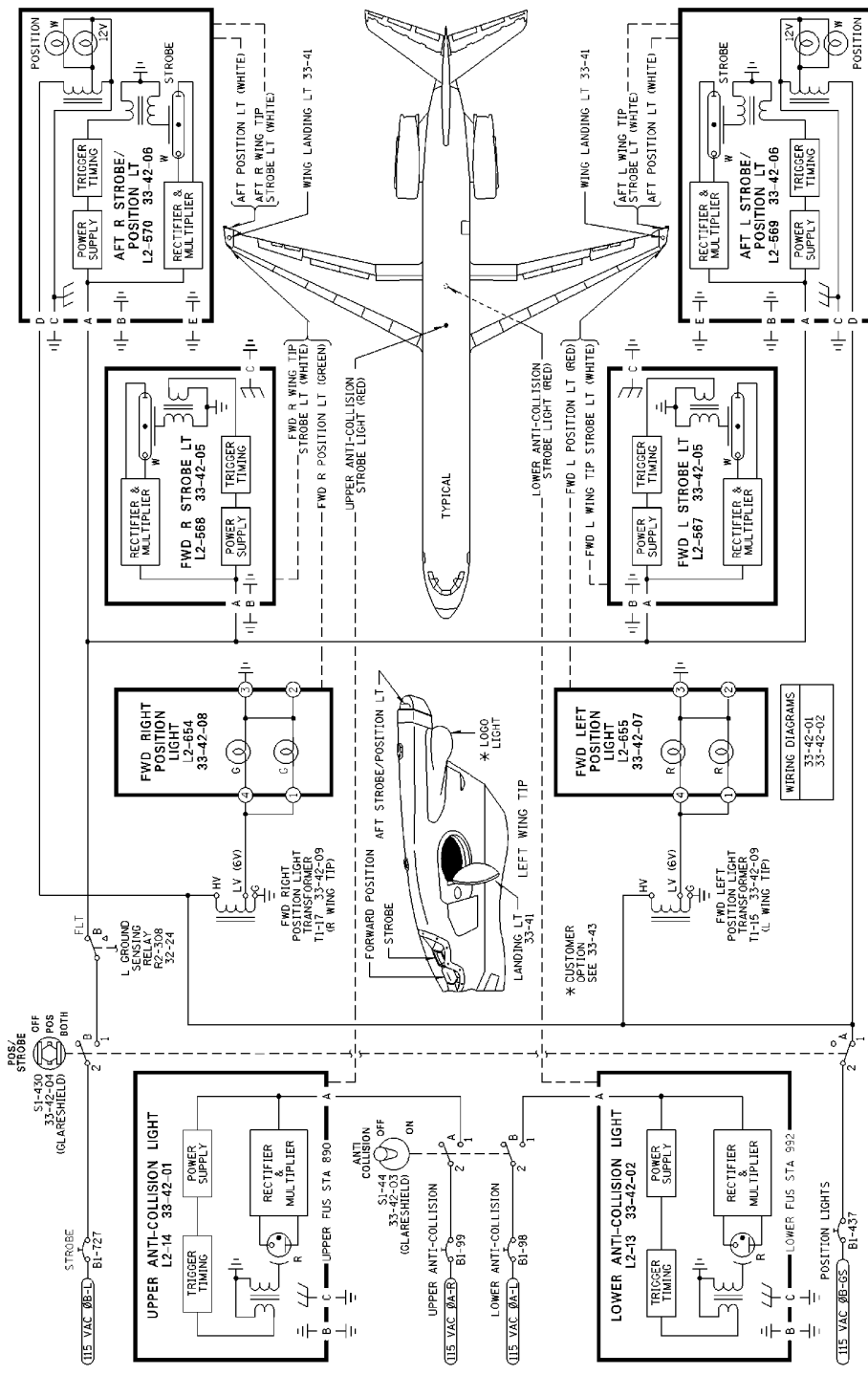
CAG(IIGDS)

Wing, Nacelle, Position and Ground Floodlights  
Figure 2/33-40-00-990-805 (Sheet 3 of 3)

EFFECTIVITY  
WJE 401-408, 410-412, 414-427, 429, 861-866, 868,  
869, 871, 872, 875-881, 883, 886, 887, 891-893

33-40-00

# MD-80 AIRCRAFT MAINTENANCE MANUAL



Anti-Collision and Position Lights - Schematic  
Figure 3/33-40-00-990-806 (Sheet 1 of 2)

BBB2-33-135B

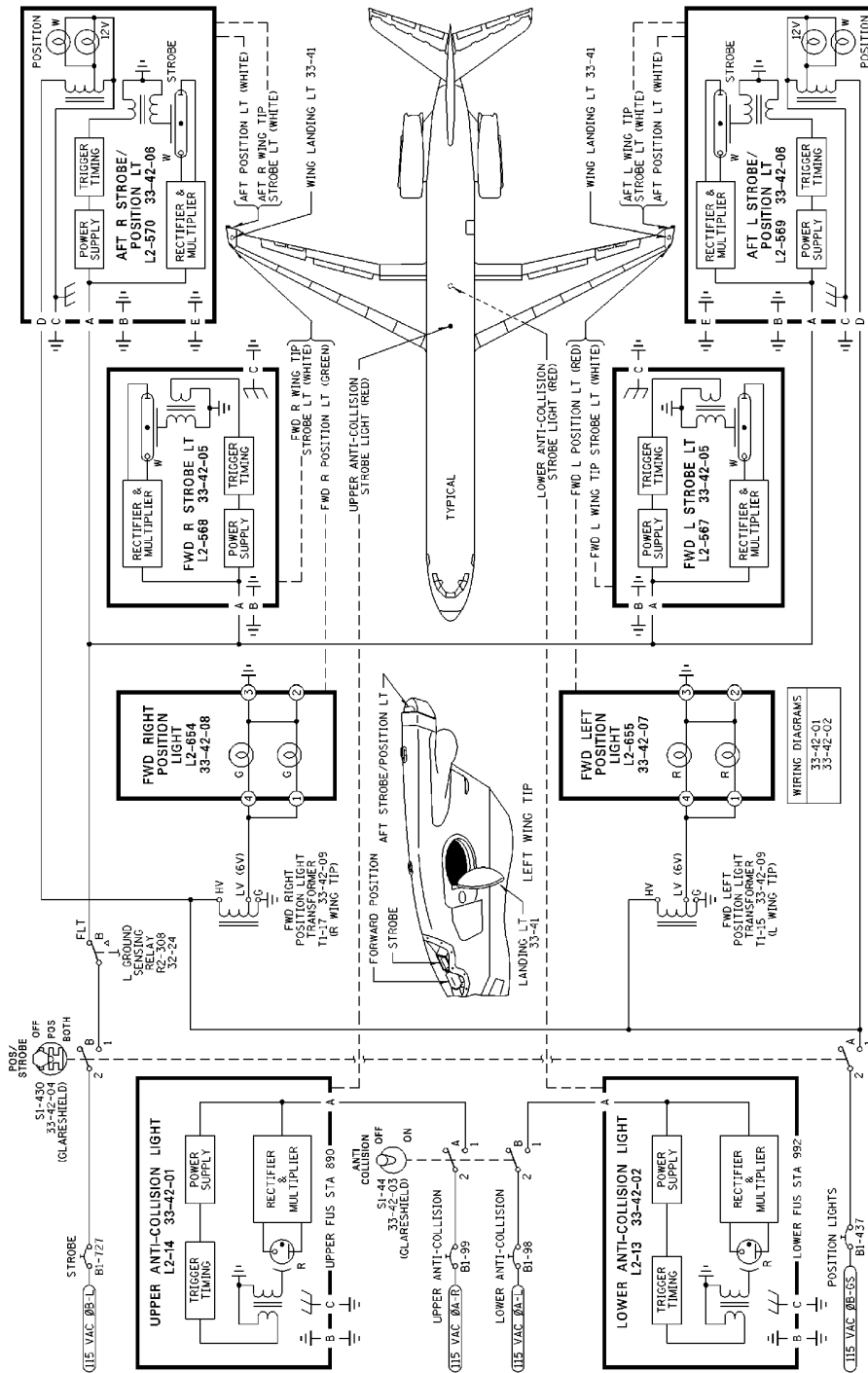
MDC PROPRIETARY

CAG(GDS)

EFFECTIVITY  
WJE 405, 406, 410, 881, 883, 886, 887

**33-40-00**

# MD-80 AIRCRAFT MAINTENANCE MANUAL



BBB2-33-510

MDC PROPRIETARY

CAG(IIGDS)

Anti-Collision and Position Lights - Schematic  
Figure 3/33-40-00-990-806 (Sheet 2 of 2)

EFFECTIVITY

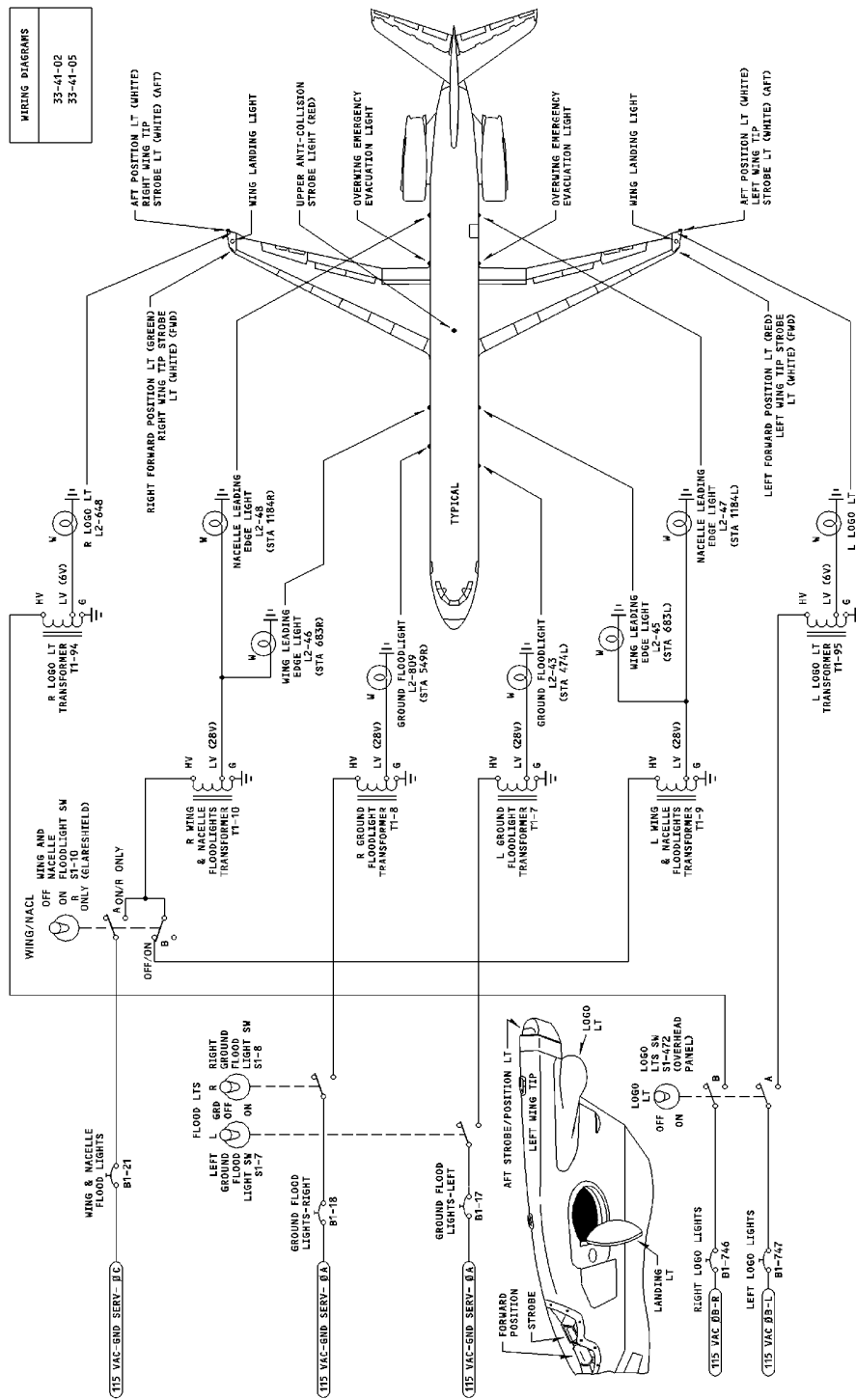
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871-881, 883, 884, 886, 887, 891-893

TP-80MM-WJE

33-40-00

Page 7  
Feb 01/2016

# MD-80 AIRCRAFT MAINTENANCE MANUAL



Exterior Lights - Schematic Diagram  
Figure 4/33-40-00-990-808 (Sheet 1 of 2)

EFFECTIVITY  
WJE 412, 414

TP-80MM-WJE

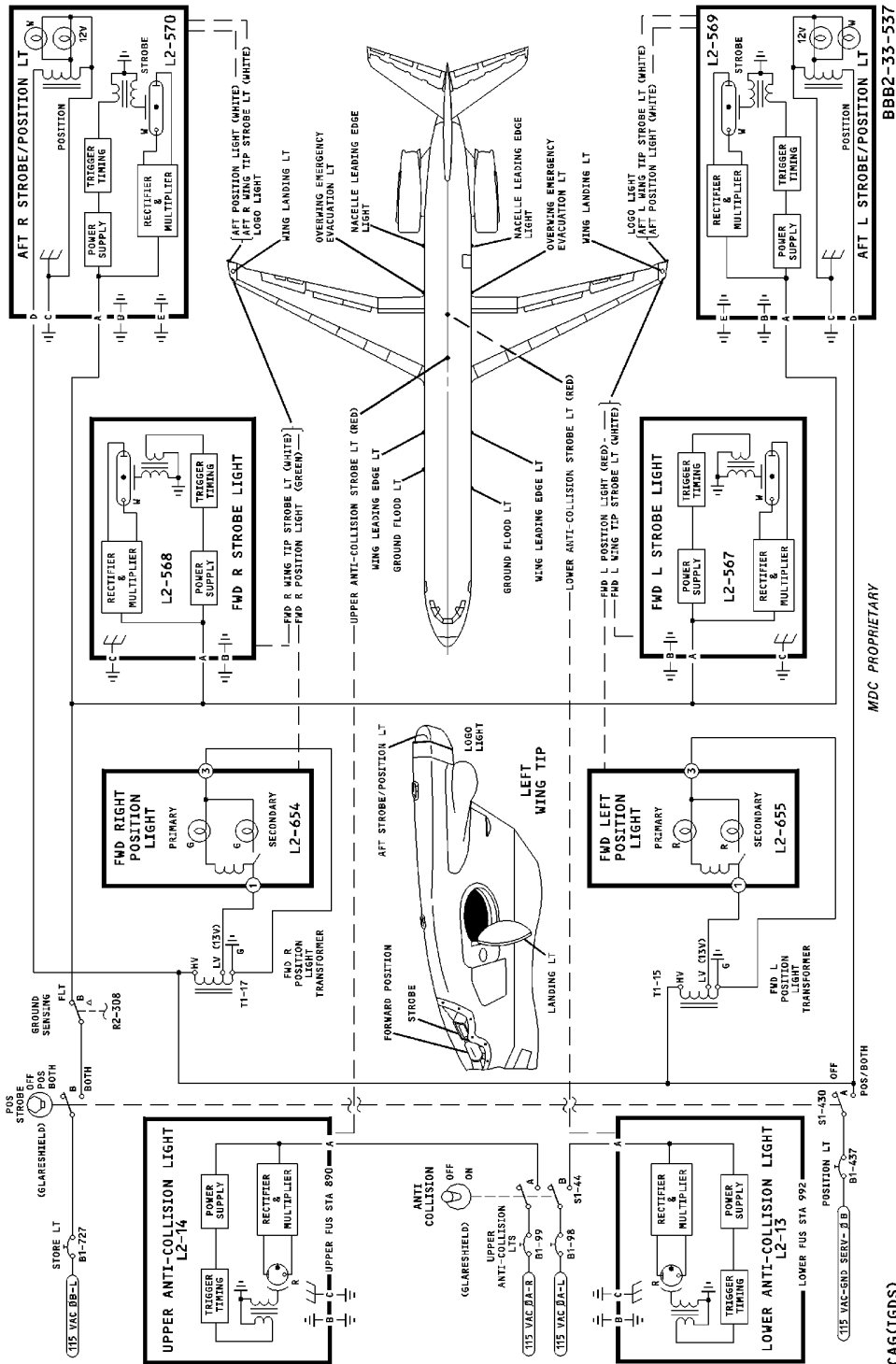
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Page 8  
Feb 01/2015

# MD-80 AIRCRAFT MAINTENANCE MANUAL



Exterior Lights - Schematic Diagram  
Figure 4/33-40-00-990-808 (Sheet 2 of 2)

EFFECTIVITY  
WJE 412, 414

**33-40-00**

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### LANDING AND TAXI LIGHTS - DESCRIPTION AND OPERATION

#### 1. General

- A. The landing and taxi lights consist of the nosegear landing and taxi lights and the wing landing lights.
- B. Two sealed-beam, fixed-position, combination landing and taxi lights are installed on the nosegear assembly. Each light is a double-filament lamp, one 600-watt and one 400-watt. The circuit is interlocked with the landing gear control relays so that the lights will come on only when the landing gear control handle is in the down position. The landing and taxi lights are controlled by a single off/dim/bright switch.
- C. One sealed-beam, retractable landing light is installed on the lower surface of each wing tip. Each light assembly is enclosed in a housing and contains a 600-watt lamp, a motor-driven gear arrangement, limit switches, and an autotransformer for reducing voltage to 28 volts. The light-mounting installation provides permanent directional alignment. The wing lights are individually controlled by two retract/extend off/extend on switches. An automatic retract circuit is energized when a pressure difference in excess of 70 psig (483 kPa) is sensed on the engine differential pressure switch with the landing gear handle placed in the up position.

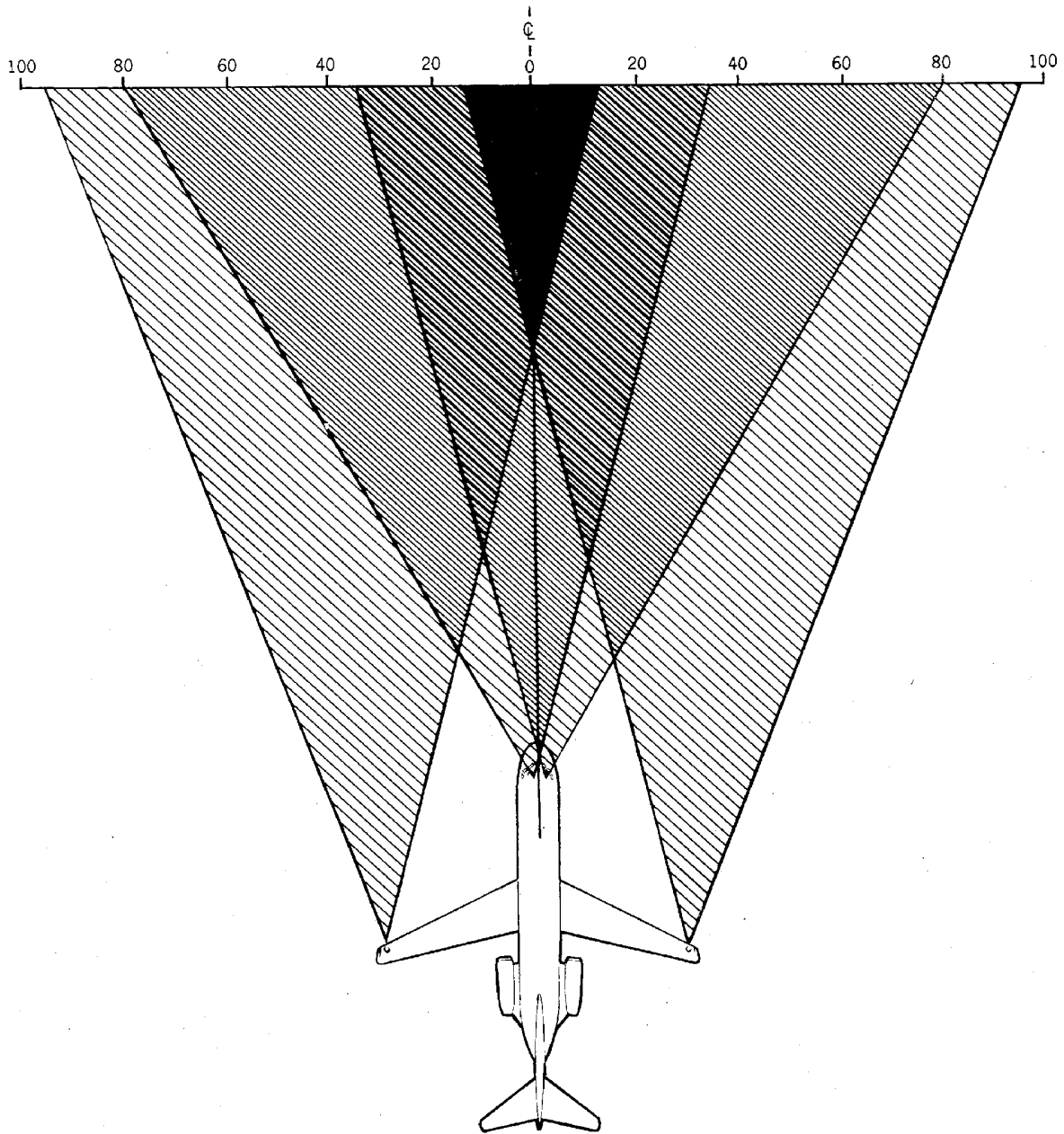
EFFECTIVITY  
WJE ALL

TP-80MM-WJE

**33-41-00**

Page 1  
Feb 01/2015

# MD-80 AIRCRAFT MAINTENANCE MANUAL



LANDING AND TAXI LIGHT PATTERN LIGHTS AN AREA  
200 FEET (61 M) WIDE AT 500 FEET (152.4 M)  
FORWARD OF PILOT'S EYE REFERENCE POINT

BBB2-33-50A

**Landing and Taxi Light Pattern**  
**Figure 1/33-41-00-990-801**

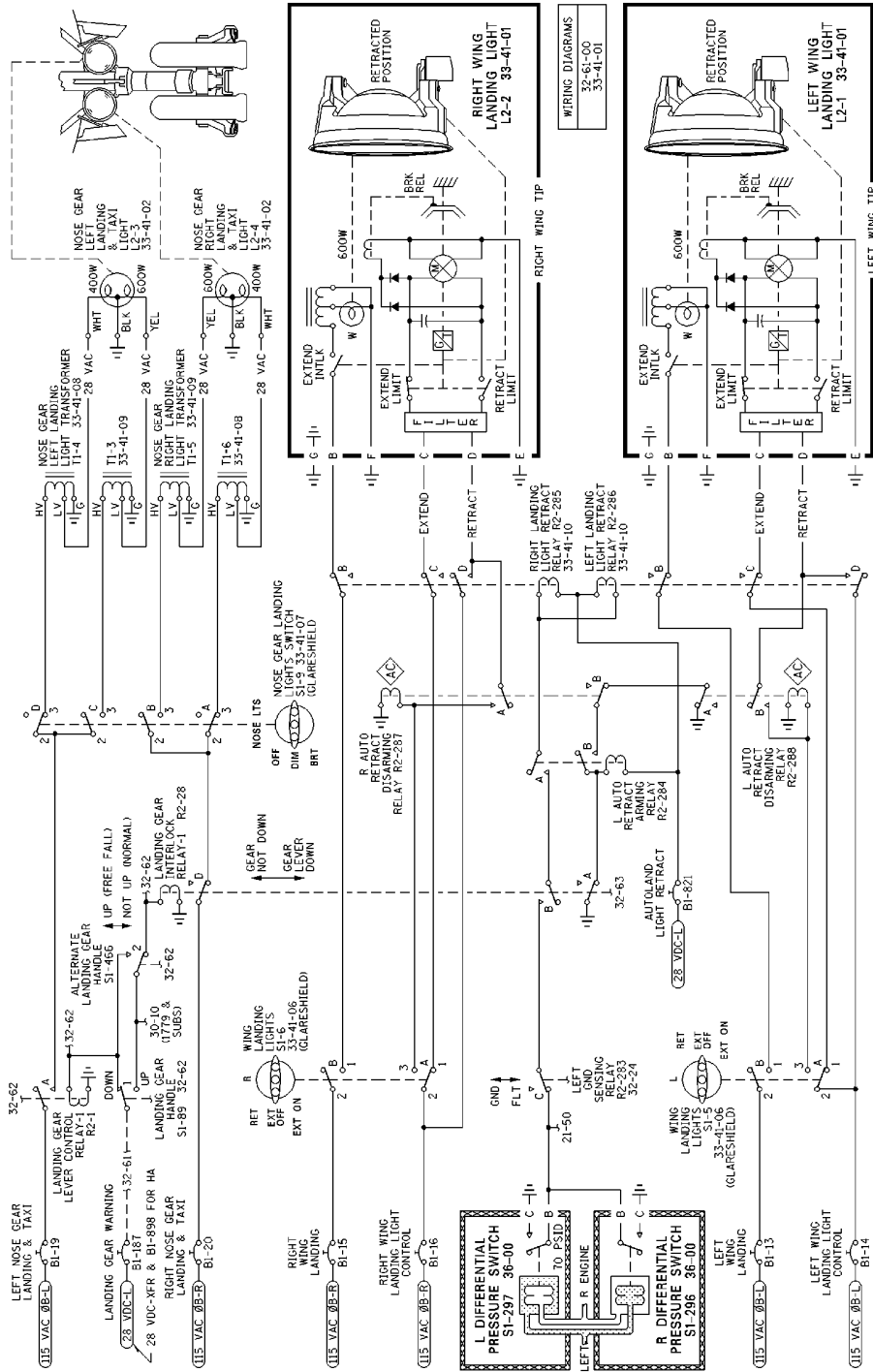
EFFECTIVITY  
WJE ALL

TP-80MM-WJE

## 33-41-00



# MD-80 AIRCRAFT MAINTENANCE MANUAL



**Landing and Taxi Lights -- Schematic**  
Figure 2/33-41-00-990-802

BBB2-33-85G

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CAG(IIGDS)

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WJE ALL

**33-41-00**

# MD-80 AIRCRAFT MAINTENANCE MANUAL

## NOSEGEAR LANDING AND TAXI LIGHTS - REMOVAL/INSTALLATION

### 1. General

- A. The removal installation procedures for both nosegear landing and taxi lights are identical. The light housing and support bracket should be removed and installed as a unit to preclude disturbance of the light adjustment. The adjustment must be checked as outlined in the Adjustment/Test procedure. Adjustment is not required following lamp replacement.
- B. When performing maintenance, do not allow the lights to remain on more than five minutes. If more than five minutes is required, turn lights off and allow them to cool for five minutes. Prolonged continuous use may cause lights to burn out.

### 2. Removal/Installation Nosegear Landing and Taxi Lights

**WJE ALL PRE MD80-SL-33-106**

**WARNING:** YOU MUST WEAR EYE PROTECTION WHEN WORKING IN THE AREA OF THE NOSEGEAR AND WING LANDING LIGHTS. THE LIGHTS CAN EXPLODE AND CAUSE SERIOUS INJURY TO PERSONNEL AND DAMAGE TO EQUIPMENT.

- A. Remove Nosegear Landing and Taxi Light Lamps. (Figure 401) (Figure 402) (Figure 404)

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

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

**UPPER EPC, LIGHTS - LEFT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	14	B1-19	LEFT NOSE GEAR LANDING & TAXI

**UPPER EPC, LIGHTS - RIGHT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
L	14	B1-20	RIGHT NOSE GEAR LANDING & TAXI

- (2) Place nosewheel steering bypass lever in bypass position to prevent inadvertent operation of nosewheel steering.
- (3) Remove lamp retaining ring, and pull out lamp to gain access to electrical wiring.
- (4) Disconnect electrical wiring and remove lamp.

**WJE ALL POST MD80-SL-33-106**

**WARNING:** YOU MUST WEAR EYE PROTECTION WHEN WORKING IN THE AREA OF THE NOSEGEAR AND WING LANDING LIGHTS. THE LIGHTS CAN EXPLODE AND CAUSE SERIOUS INJURY TO PERSONNEL AND DAMAGE TO EQUIPMENT.

- B. Remove Nosegear Landing and Taxi Light Lamps. (Figure 403)

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

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

**UPPER EPC, LIGHTS - LEFT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	14	B1-19	LEFT NOSE GEAR LANDING & TAXI

EFFECTIVITY	
WJE ALL	

33-41-01

TP-80MM-WJE

## MD-80 AIRCRAFT MAINTENANCE MANUAL

WJE ALL POST MD80-SL-33-106 (Continued)

### UPPER EPC, LIGHTS - RIGHT AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
L	14	B1-20	RIGHT NOSE GEAR LANDING & TAXI

- (2) Place nosewheel steering bypass lever in bypass position to prevent inadvertent operation of nosewheel steering.
- (3) Remove lamp retaining ring, mesh screen and pull out lamp to gain access to electrical wiring.  
NOTE: The lamp can be attached to the mesh screen by the rubber gasket.
- (4) Disconnect electrical wiring and remove lamp.
- (5) Remove the mesh screen from the lamp and inspect the gasket around the lamp. If cracked or damaged remove the gasket and discard.

WJE ALL

- C. Remove Nosegear Landing and Taxi Light Housing.
  - (1) If necessary, remove nosegear landing and taxi light lamp.
  - (2) Remove terminal block cover and disconnect aircraft wiring.
  - (3) Loosen conduit nut on wiring feed through and remove aircraft wiring from fixture.
  - (4) Remove light housing and support bracket from nosegear.
- D. Install Nosegear Landing and Taxi Light Housings

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Make sure that these circuit breakers are open and have safety tags:

### UPPER EPC, LIGHTS - LEFT AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	14	B1-19	LEFT NOSE GEAR LANDING & TAXI

### UPPER EPC, LIGHTS - RIGHT AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
L	14	B1-20	RIGHT NOSE GEAR LANDING & TAXI

- (2) Make certain nosewheel steering bypass lever is in bypass position.
- (3) Position light housing and support bracket on nosegear and install attaching bolts and nuts.
- (4) Insert aircraft wiring in fixture and tighten conduit nut on wiring feed through.
- (5) Connect electrical wiring to terminal block and install cover.
- (6) Install nosegear landing and taxi light lamp.

WJE ALL PRE MD80-SL-33-106

- E. Install Nosegear Landing and Taxi Light Lamps. (Figure 401) (Figure 402) (Figure 404)

EFFECTIVITY  
WJE ALL

# 33-41-01

TP-80MM-WJE

Page 402  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

WJE ALL PRE MD80-SL-33-106 (Continued)

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Make sure that these circuit breakers are open and have safety tags:

**UPPER EPC, LIGHTS - LEFT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	14	B1-19	LEFT NOSE GEAR LANDING & TAXI

**UPPER EPC, LIGHTS - RIGHT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
L	14	B1-20	RIGHT NOSE GEAR LANDING & TAXI

- (2) Make certain nosewheel steering bypass lever is in bypass position.

**CAUTION:** MAKE SURE THE WIRES ARE CONNECTED TO THE CORRECT TERMINAL BLOCK AND THE BARE WIRES DO NOT TOUCH EACH OTHER AND THE GROUND STUD. WIRE ROUTING MUST BE CLEAR AND NOT GO ACROSS EACH OTHER. THIS WILL HELP PREVENT DAMAGE TO THE ELECTRICAL UNIT AND ELECTRICAL SUPPLY.

- (3) Connect electrical wiring to lamp and install lamp retaining ring.

- (a) If the light housing is the Grimes housing, P/N 51-0525-1, make sure that there are two pads adjacent to the three landing light housing indents for the lamp locators to rest upon. The Grimes unit can be distinguished by looking into the housing, without the lamp installed, and seeing the following note:

INSTALL WITH WHITE TERMINAL UP

- (b) If the light housing is the Teleflex-Syneravia housing, P/N 4223448, make sure that there is 360 degree gasket installed within the housing for the lamp locators to rest upon. The Teleflex-Syneravia housing has an instruction plate inside the housing which reads as follows:

INSTALL WITH WHITE TERMINAL UP

600W COMM 400W

- (c) The lamp is marked (top), and must be installed with the mark at the top of the light housing, to clear the electrical wiring and terminal block.
- (d) Rotate yellow and black lug in direction of arrow, approximately 60 degrees, to clear terminal on lamp when lamp is installed. (Figure 404)
- (e) Make sure that the retaining ring is not over-torqued during tightening. The retaining ring should be tighten to where the retaining ring is secure and does not rotate but not overly tighten so as to place undo stress upon the lamp body itself.
- (4) Place nosewheel steering bypass lever in normal position.
- (5) Remove the safety tags and close these circuit breakers:

**UPPER EPC, LIGHTS - LEFT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	14	B1-19	LEFT NOSE GEAR LANDING & TAXI

EFFECTIVITY  
WJE ALL

**33-41-01**

TP-80MM-WJE

## MD-80 AIRCRAFT MAINTENANCE MANUAL

WJE ALL PRE MD80-SL-33-106 (Continued)

### UPPER EPC, LIGHTS - RIGHT AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
L	14	B1-20	RIGHT NOSE GEAR LANDING & TAXI

- (6) Check to ensure landing gear control handle is down.

**WARNING:** YOU MUST WEAR EYE PROTECTION WHEN WORKING IN THE AREA OF THE NOSEGEAR AND WING LANDING LIGHTS. THE LIGHTS CAN EXPLODE AND CAUSE SERIOUS INJURY TO PERSONNEL AND DAMAGE TO EQUIPMENT.

**CAUTION:** DO NOT LET THE LIGHTS STAY ON FOR MORE THAN FIVE MINUTES WHILE YOU DO MAINTENANCE. THIS WILL PREVENT DAMAGE TO THE LIGHTS.

- (7) Place appropriate switch in the ON position to check proper operation of light.

WJE ALL POST MD80-SL-33-106

- F. Install Nosegear Landing and Taxi Light Lamps. (Figure 403)

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Make sure that these circuit breakers are open and have safety tags:

### UPPER EPC, LIGHTS - LEFT AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	14	B1-19	LEFT NOSE GEAR LANDING & TAXI

### UPPER EPC, LIGHTS - RIGHT AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
L	14	B1-20	RIGHT NOSE GEAR LANDING & TAXI

- (2) Make certain nosewheel steering bypass lever is in bypass position.

**CAUTION:** MAKE SURE THE WIRES ARE CONNECTED TO THE CORRECT TERMINAL BLOCK AND THE BARE WIRES DO NOT TOUCH EACH OTHER AND THE GROUND STUD. WIRE ROUTING MUST BE CLEAR AND NOT GO ACROSS EACH OTHER. THIS WILL HELP PREVENT DAMAGE TO THE ELECTRICAL UNIT AND ELECTRICAL SUPPLY.

- (3) Connect electrical wiring to lamp.
- (4) Install the gasket around the lamp then install the mesh screen over the lamp and gasket.
- (5) install the lamp and mesh screen assembly in the housing and install the retaining ring.
- (a) Make sure that the lamp is installed with the word "TOP" at the top of the light housing, to clear the electrical wiring and terminal block.
- (b) Rotate yellow and black lug in direction of arrow, approximately 60 degrees, to clear terminal on lamp when lamp is installed.
- (c) Make sure that the retaining ring is not over-torqued during tightening. The retaining ring should be tighten to where the retaining ring is secure and does not rotate but not overly tighten so as to place undo stress upon the mesh screen and lamp body itself.
- (6) Place nosewheel steering bypass lever in normal position.

EFFECTIVITY  
WJE ALL

# 33-41-01

TP-80MM-WJE

Page 404  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

WJE ALL POST MD80-SL-33-106 (Continued)

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

**UPPER EPC, LIGHTS - LEFT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	14	B1-19	LEFT NOSE GEAR LANDING & TAXI

**UPPER EPC, LIGHTS - RIGHT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
L	14	B1-20	RIGHT NOSE GEAR LANDING & TAXI

- (8) Make sure landing gear control handle is down.

**WARNING:** YOU MUST WEAR EYE PROTECTION WHEN WORKING IN THE AREA OF THE NOSEGEAR AND WING LANDING LIGHTS. THE LIGHTS CAN EXPLODE AND CAUSE SERIOUS INJURY TO PERSONNEL AND DAMAGE TO EQUIPMENT.

**CAUTION:** DO NOT LET THE LIGHTS STAY ON FOR MORE THAN FIVE MINUTES WHILE YOU DO MAINTENANCE. THIS WILL PREVENT DAMAGE TO THE LIGHTS.

- (9) Place appropriate switch in the ON position to check proper operation of light.

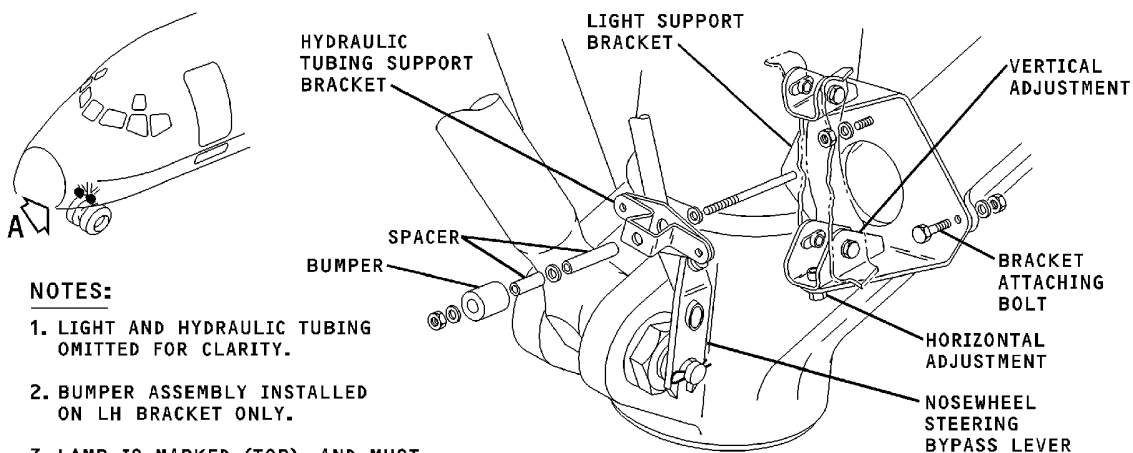
EFFECTIVITY  
WJE ALL

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Page 405  
Feb 01/2015

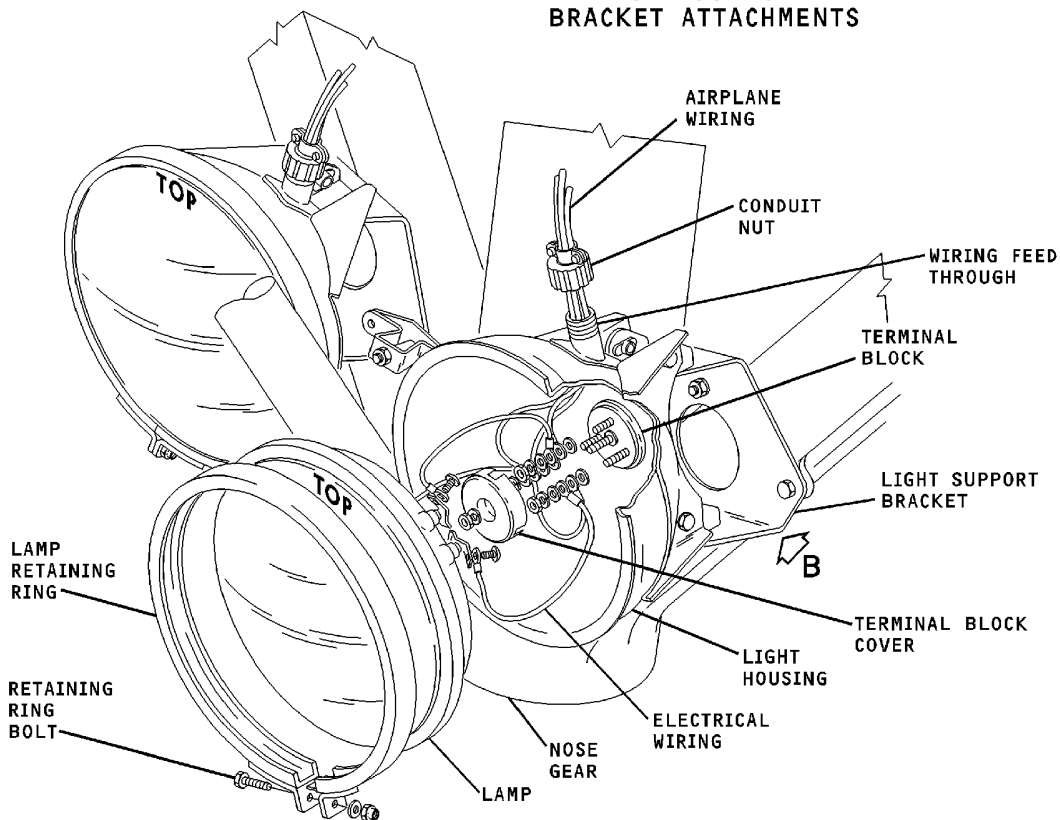
**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



**NOTES:**

1. LIGHT AND HYDRAULIC TUBING OMITTED FOR CLARITY.
2. BUMPER ASSEMBLY INSTALLED ON LH BRACKET ONLY.
3. LAMP IS MARKED (TOP), AND MUST BE INSTALLED WITH MARK AT TOP OF LIGHT HOUSING, TO CLEAR ELECTRICAL WIRING AND TERMINAL BLOCK.

**VIEW B  
LIGHT SUPPORT  
BRACKET ATTACHMENTS**



**VIEW A  
NOSE GEAR LANDING  
AND TAXI LIGHTS**

CAG(IGDS)

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**Nosegear Landing and Taxi Lights -- Removal/Installation  
Figure 401/33-41-01-990-801**

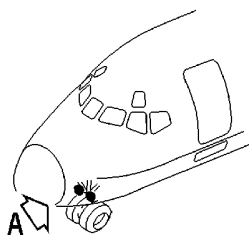
EFFECTIVITY  
WJE ALL

**33-41-01**

TP-80MM-WJE

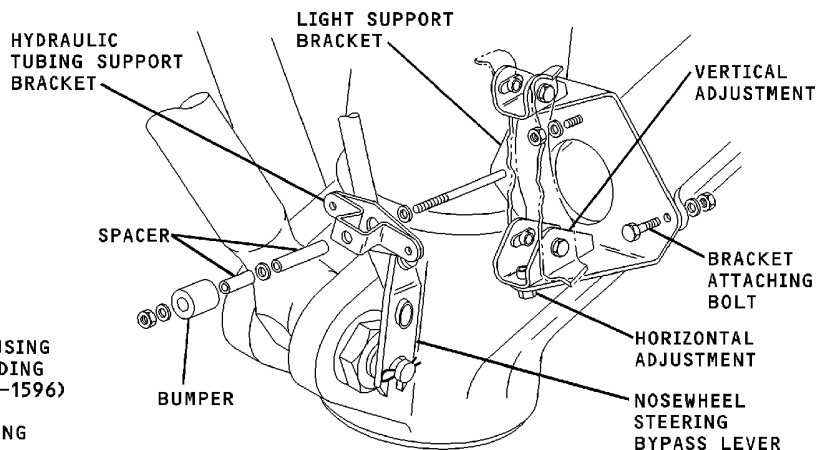
Page 406  
Feb 01/2015

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**

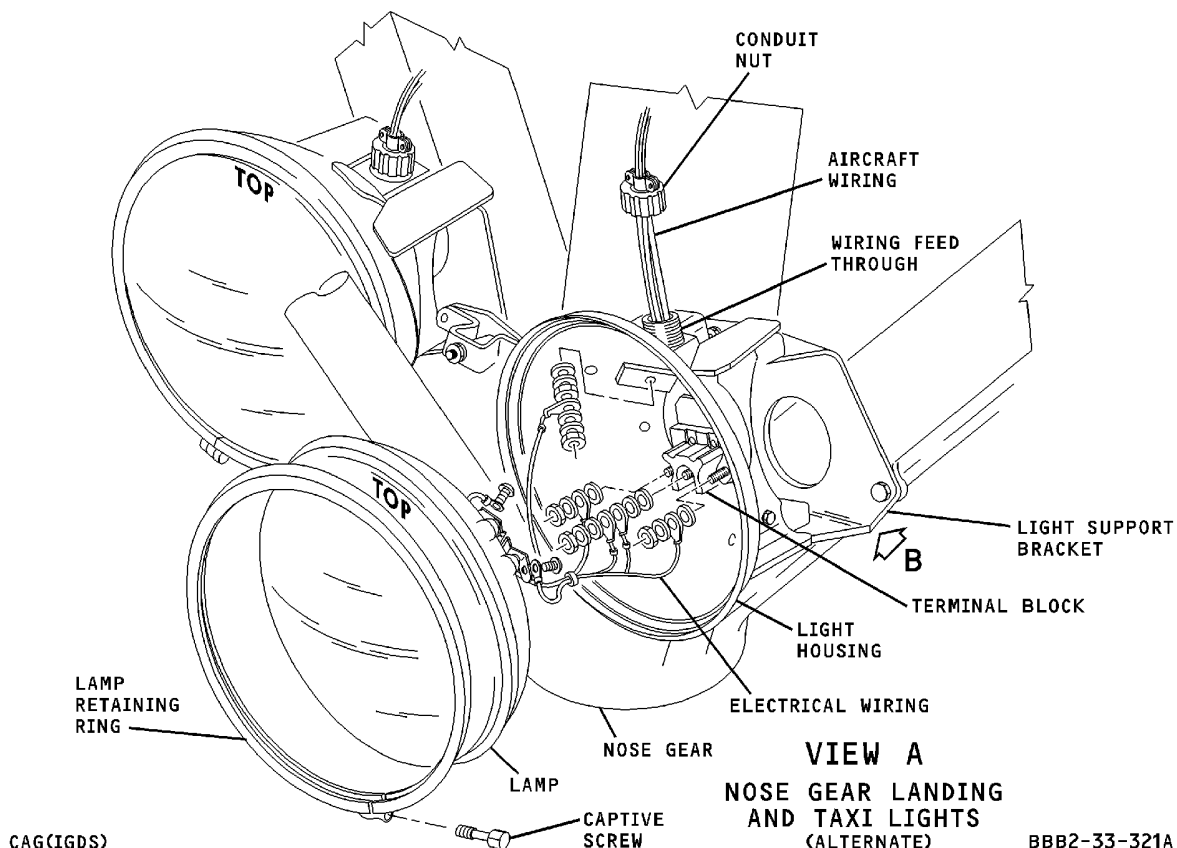


**NOTES:**

1. APPLICABLE ON AIRCRAFT USING ALTERNATE NOSE GEAR LANDING AND TAXI LIGHT (OR AOL 9-1596)
2. LIGHT AND HYDRAULIC TUBING OMITTED FOR CLARITY.
3. BUMPER ASSEMBLY INSTALLED ON LH BRACKET ONLY.
4. LAMP IS MARKED (TOP), AND MUST BE INSTALLED WITH MARK AT TOP OF LIGHT HOUSING, TO CLEAR ELECTRICAL WIRING AND TERMINAL BLOCK.



**VIEW B  
LIGHT SUPPORT  
BRACKET ATTACHMENTS**



**VIEW A  
NOSE GEAR LANDING  
AND TAXI LIGHTS  
(ALTERNATE)**

BBB2-33-321A

**Nosegear Landing and Taxi Lights (Alternate) -- Removal/Installation  
Figure 402/33-41-01-990-802**

EFFECTIVITY  
WJE ALL PRE MD80-SL-33-106

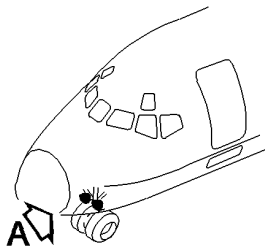
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**33-41-01**

Page 407  
Feb 01/2015

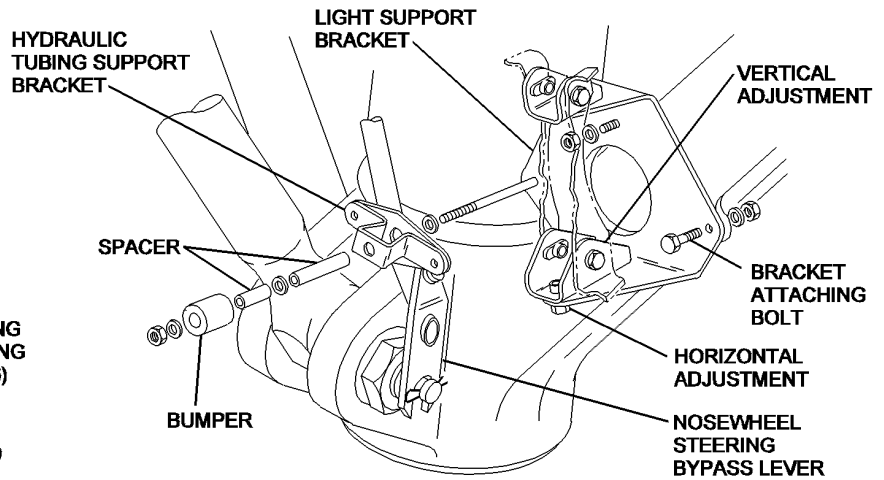


**MD-80  
AIRCRAFT MAINTENANCE MANUAL**

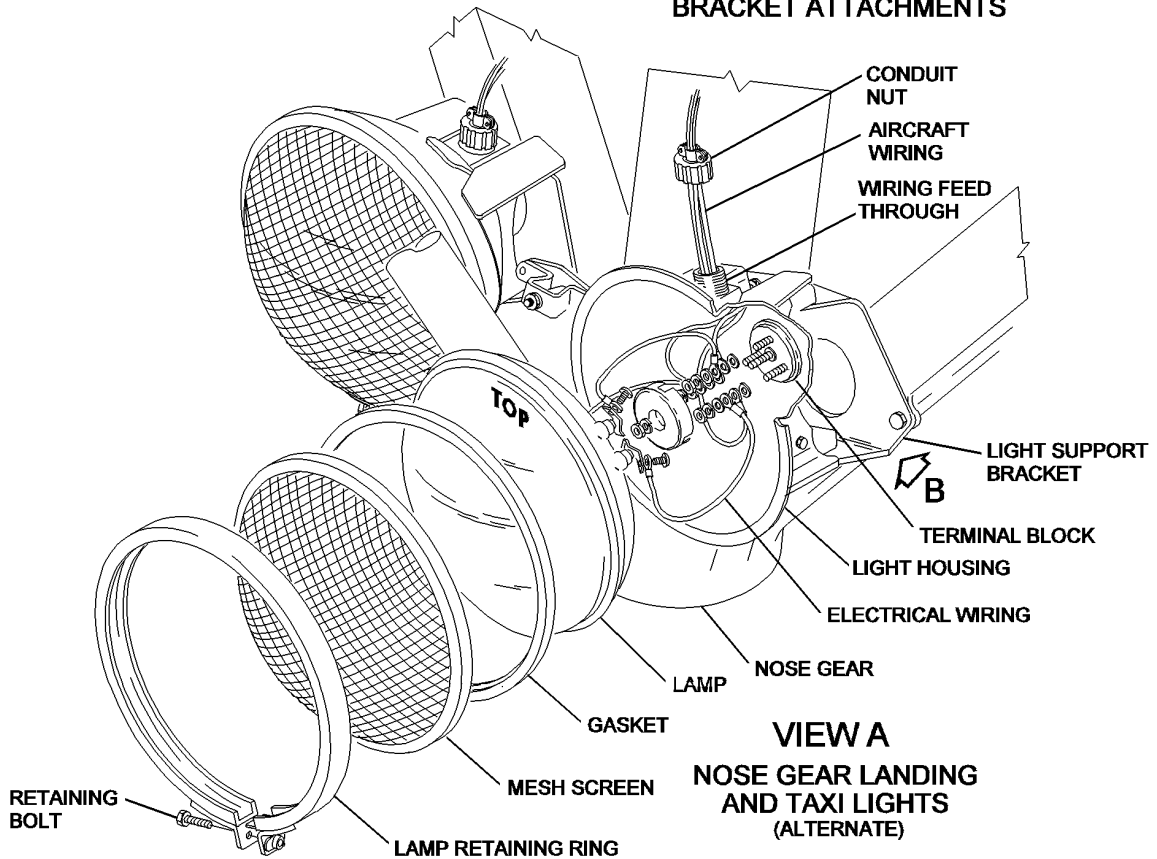


**NOTES:**

1. APPLICABLE ON AIRCRAFT USING ALTERNATE NOSE GEAR LANDING AND TAXI LIGHT (OR AOL 9-1596)
2. LIGHT AND HYDRAULIC TUBING OMITTED FOR CLARITY.
3. BUMPER ASSEMBLY INSTALLED ON LH BRACKET ONLY.
4. LAMP IS MARKED (TOP), AND MUST BE INSTALLED WITH MARK AT TOP OF LIGHT HOUSING, TO CLEAR ELECTRICAL WIRING AND TERMINAL BLOCK.



**VIEW B  
LIGHT SUPPORT  
BRACKET ATTACHMENTS**



**VIEW A  
NOSE GEAR LANDING  
AND TAXI LIGHTS  
(ALTERNATE)**

BBB2-33-558A  
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**Nosegear Landing and Taxi Lights (Alternate) - Removal/Installation  
Figure 403/33-41-01-990-806**

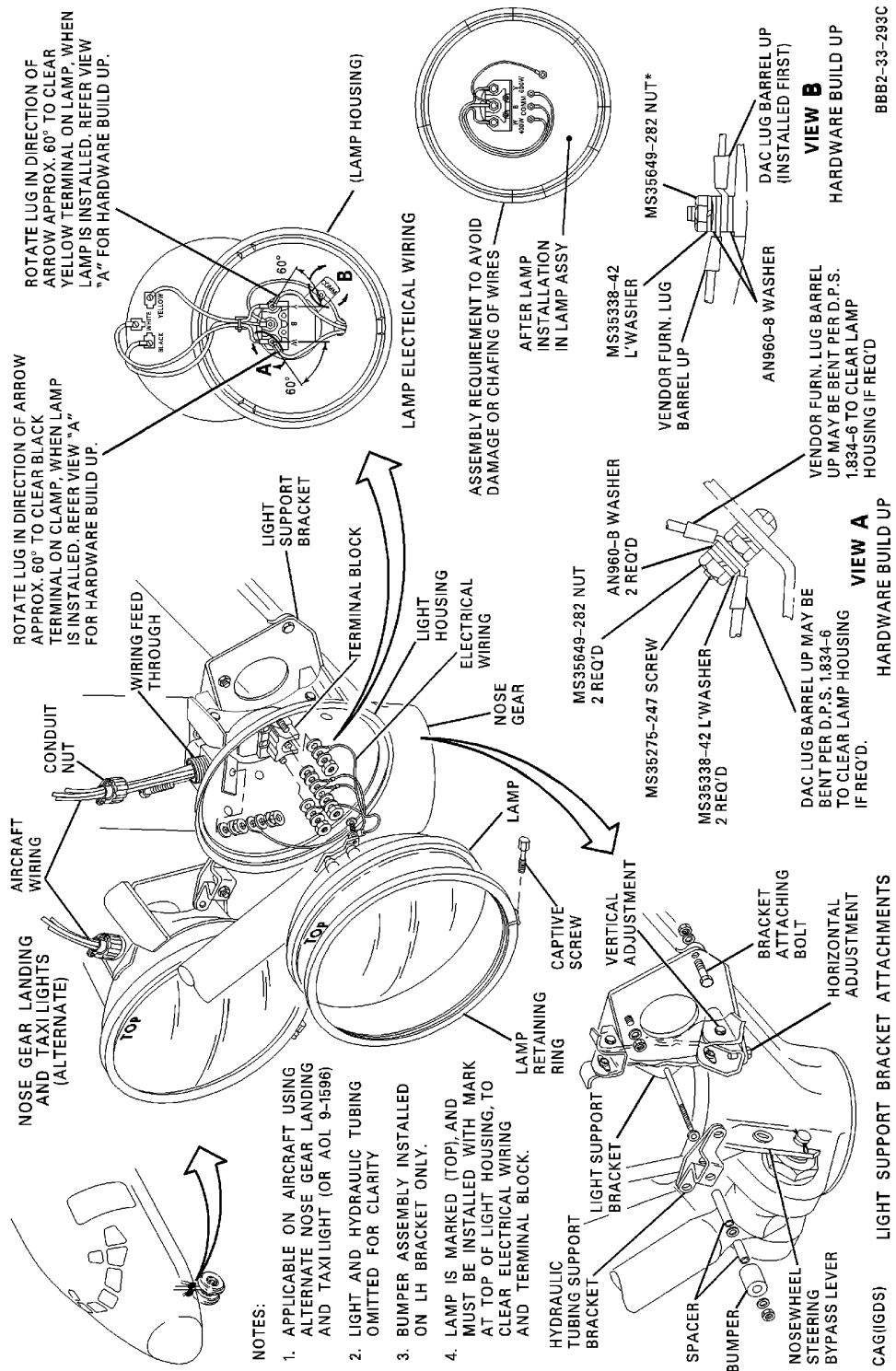
EFFECTIVITY  
WJE ALL POST MD80-SL-33-106

TP-80MM-WJE

**33-41-01**

Page 408  
Feb 01/2015

MD-80  
AIRCRAFT MAINTENANCE MANUAL



Nosegear Landing and Taxi Lights (Alternate) -- Removal/Installation  
Figure 404/33-41-01-990-803

EFFECTIVITY  
WJE ALL PRE MD80-SL-33-106

33-41-01

BBB2-33-293C

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### NOSEGEAR LANDING AND TAXI LIGHTS - ADJUSTMENT/TEST

#### 1. General

- A. A new light assembly should be pre-assembled and bench adjusted before installation. The following procedures must be used if necessary in making final adjustments to bring light into focus.

#### 2. Adjustment/Test Nosegear Landing and Taxi Lights

- A. Adjust Nosegear Landing and Taxi Lights

**WARNING:** YOU MUST WEAR EYE PROTECTION WHEN WORKING IN THE AREA OF THE NOSE LANDING AND TAXI LIGHTS. THE LIGHTS CAN EXPLODE AND CAUSE SERIOUS INJURY TO PERSONNEL AND DAMAGE TO EQUIPMENT.

**CAUTION:** DO NOT ALLOW LANDING AND TAXI LIGHTS TO REMAIN ON MORE THAN 5 MINUTES AT A TIME.

- (1) Make certain landing gear struts are properly inflated before adjustment of nosegear landing and taxi lights. (NOSEGEAR STRUT - SERVICING, PAGEBLOCK 32-21-02/301)
- (2) Loosen vertical and horizontal adjustment bolts.
- (3) Horizontal adjustment: Adjust each light so beam center-line is  $3 \pm 1$  ft ( $0.91 \pm 0.31$  m) outboard of airplane centerline at  $65 \pm 5$  ft ( $19.8 \pm 1.5$  m) from face of lamp.
- (4) Tighten adjustment bolts.
- (5) Vertical adjustment: Adjust both lights so beam centerline intersects static ground line at  $65 \pm 5$  ft ( $19.8 \pm 1.5$  m) from face of lamp.
- (6) Tighten adjustment bolts.

- B. Test Nosegear Landing and Taxi Lights

**WARNING:** YOU MUST WEAR EYE PROTECTION WHEN WORKING IN THE AREA OF THE NOSE LANDING AND TAXI LIGHTS. THE LIGHTS CAN EXPLODE AND CAUSE SERIOUS INJURY TO PERSONNEL AND DAMAGE TO EQUIPMENT.

**CAUTION:** DO NOT ALLOW LANDING AND TAXI LIGHTS TO REMAIN ON MORE THAN 5 MINUTES AT A TIME.

- (1) Place NOSE LTS switch, located on glareshield, in DIM position and check that both nosegear lights come on.
- (2) Place NOSE LTS in BRT position, and check that both nosegear lights brighten.
- (3) Place NOSE LTS switch in OFF position and check that both lights go off.

**NOTE:** Nosegear landing and taxi lights should come on when landing gear lever is in down detent position and go off when lever is pulled out of detent position.

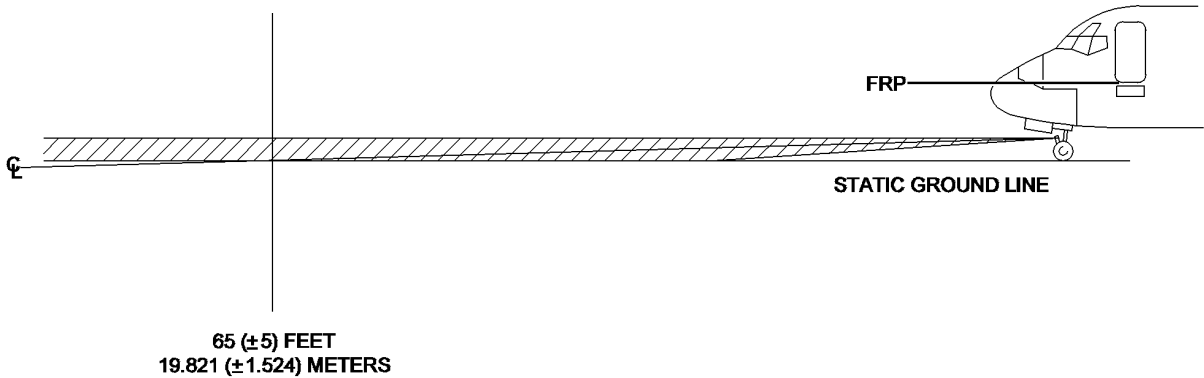
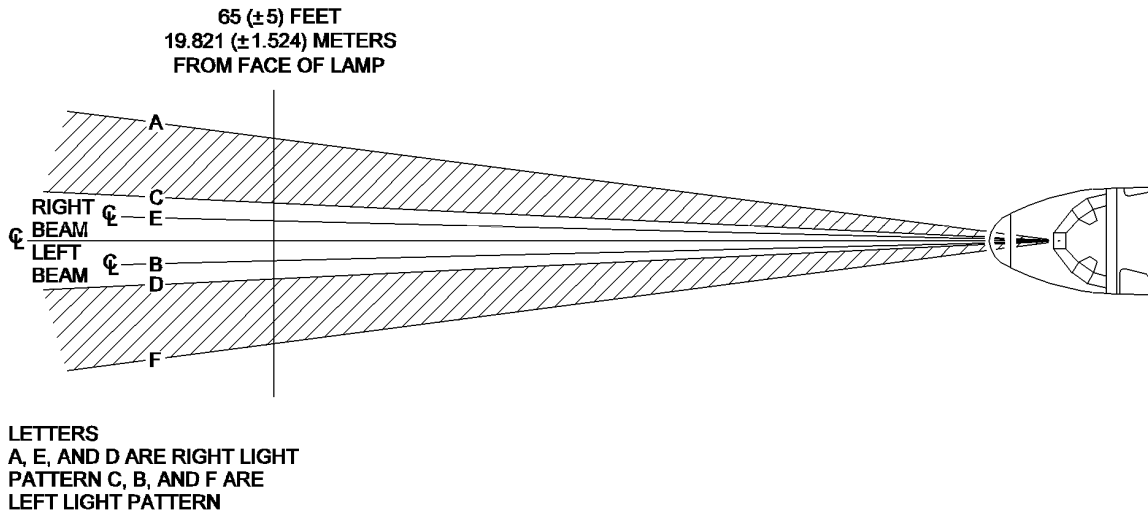
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TP-80MM-WJE

**33-41-01**

Page 501  
Feb 01/2015

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



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**Nosegear Landing and Taxi Lights -- Adjustment/Test**  
**Figure 501/33-41-01-990-804**

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

**33-41-01**

Page 502  
Feb 01/2015

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**

**NOSE GEAR LANDING/TAXI LIGHT SWITCH - REMOVAL/INSTALLATION**

**1. General**

- A. This procedure contains task card data.
- B. Refer to Service Letter MD80-SL-33-101.

**TASK 33-41-01-901-801**

**2. Nose Gear Landing/Taxi Light Switch Replacement**

NOTE: This procedure is a scheduled maintenance task.

**A. References**

<u>Reference</u>	<u>Title</u>
33-41-03 P/B 401	LANDING AND TAXI LIGHT SWITCHES - REMOVAL/INSTALLATION

**B. Nose Gear Landing/Taxi Light Switch Replacement**

**SUBTASK 33-41-01-901-001**

- (1) Remove and replace the nose gear landing/taxi light switch. (LANDING AND TAXI LIGHT SWITCHES - REMOVAL/INSTALLATION, PAGEBLOCK 33-41-03/401)

NOTE: Refer to service letter MD80-SL-33-101 for applicable part numbers.

———— **END OF TASK** ————

EFFECTIVITY  
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TP-80MM-WJE

**33-41-01**

Config 1  
Page 401  
Feb 01/2015

# MD-80 AIRCRAFT MAINTENANCE MANUAL

## WING LANDING LIGHTS SECTOR GEAR WORM PINION - SERVICING

### 1. General

- A. This procedure contains task card data.
- B. Refer to latest revision of Grimes (Honeywell) Technical Information Letter No. 372.

### TASK 33-41-02-640-801

### 2. Lubrication of the Wing Landing Lights Sector Gear Worm Pinion

NOTE: This procedure is a scheduled maintenance task.

#### A. References

Reference	Title
24-40-00 P/B 001	EXTERNAL POWER - DESCRIPTION AND OPERATION

#### B. Tools/Equipment

Reference	Description
STD-858	Tag - DO NOT OPERATE

#### C. Consumable Materials

NOTE: Equivalent replacements are permitted for the items that follow.

NOTE: It is possible that some materials in the Consumable Materials chart cannot be used for some or all of the necessary applications. Before you use the materials, make sure the types, quantities, and applications of the materials necessary are legally permitted in your location. All persons must obey all applicable federal, state, local, and provincial laws and regulations when it is necessary to work with these materials.

Reference	Description	Specification
D60039	Lubricant - Grease, Pneumatic	DPM 333 (AMS-G-4343)

#### D. Prepare for the Lubrication of the Wing Landing Light

**WARNING:** YOU MUST WEAR EYE PROTECTION WHEN WORKING IN THE AREA OF THE NOSEGEAR AND WING LANDING LIGHTS. THE LIGHTS CAN EXPLODE AND CAUSE SERIOUS INJURY TO PERSONNEL AND DAMAGE TO EQUIPMENT.

SUBTASK 33-41-02-865-001

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

#### LOWER EPC, LIGHTS - LEFT DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
M	35	B1-821	AUTOLAND LIGHT RETRACT

#### UPPER EPC, LIGHTS - LEFT AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	12	B1-13	LEFT WING LANDING
K	13	B1-14	LEFT WING LANDING LIGHT CONTROL

#### UPPER EPC, LIGHTS - RIGHT AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
L	12	B1-15	RIGHT WING LANDING
L	13	B1-16	RIGHT WING LANDING LIGHT CONTROL

EFFECTIVITY  
WJE ALL

# 33-41-02

TP-80MM-WJE

Page 301  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

SUBTASK 33-41-02-861-001

- (2) Apply external electrical power. (EXTERNAL POWER - DESCRIPTION AND OPERATION, PAGEBLOCK 24-40-00/001)

SUBTASK 33-41-02-860-002

**CAUTION:** WHEN YOU DO A TEST OF THE LANDING LIGHTS, DO NOT OPERATE THE LIGHTS MORE THAN 10 EXTEND-RETRACT CYCLES DURING EACH 10 MINUTES. IF YOU DO MORE THAN 10 CYCLES, THE LANDING LIGHT MOTORS WILL NOT HAVE THEIR USUAL SERVICE LIFE.

- (3) Extend the wing landing lights as follows:
  - (a) On the overhead panel, put the L LDG LT and RT LDG LT switches to the EXT OFF position.
    - 1) Make sure that the two wing landing lights extend from the wing.
    - 2) Make sure that the two wing landing lights are off.
  - (b) Put a DO NOT OPERATE tag, STD-858 on the LT LDG LT AND RT LDG LT switches.

### E. Lubrication of the Wing Landing Lights Sector Gear Worm Pinion.

SUBTASK 33-41-02-640-001

- (1) Service the wing landing light as follows: (Ref Figure 301)

**WARNING:** USE THE HAZARDOUS MATERIAL WARNINGS GIVEN BELOW FOR THE STEPS THAT FOLLOW.

THE HAZARDOUS MATERIAL WARNINGS ARE LISTED AFTER THE INTRODUCTION SECTION IN THE FRONT OF THE AMM.

Hazardous Material Warnings

HAZMAT 1404, LUBRICANT/GREASE/PNEUMATIC (DPM 333)

HAZMAT 1000, REFER TO MSDS

- (a) Apply a thin layer of pneumatic lubricant grease, D60039 to the gear teeth.

### F. Job Close-up

SUBTASK 33-41-02-942-001

**CAUTION:** WHEN YOU DO A TEST OF THE LANDING LIGHTS, DO NOT OPERATE THE LIGHTS MORE THAN 10 EXTEND-RETRACT CYCLES DURING EACH 10 MINUTES. IF YOU DO MORE THAN 10 CYCLES, THE LANDING LIGHT MOTORS WILL NOT HAVE THEIR USUAL SERVICE LIFE.

- (1) Retract the wing landing lights as follows:
  - (a) Remove the DO NOT OPERATE tag, STD-858 from the LT LDG LT and RT LDG LT switches.
  - (b) On the overhead panel, put the L LDG LT and RT LDG LT switches to the RET position.
    - 1) Make sure that the two wing landing lights retract into the wing.
- (2) Remove all the tools and equipment from the work area. Make sure the area is clean.
- (3) Remove electrical power if no longer needed (EXTERNAL POWER - DESCRIPTION AND OPERATION, PAGEBLOCK 24-40-00/001).

————— END OF TASK —————

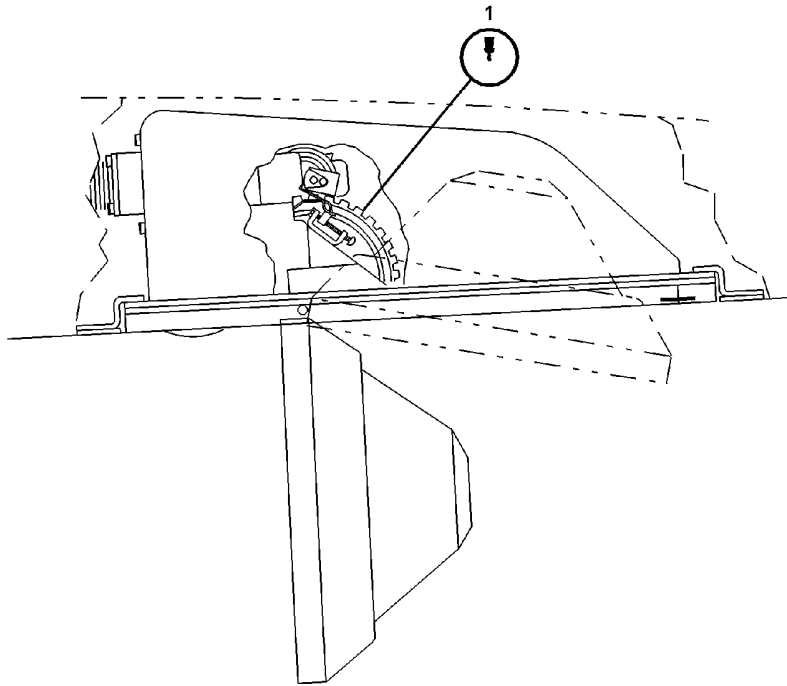
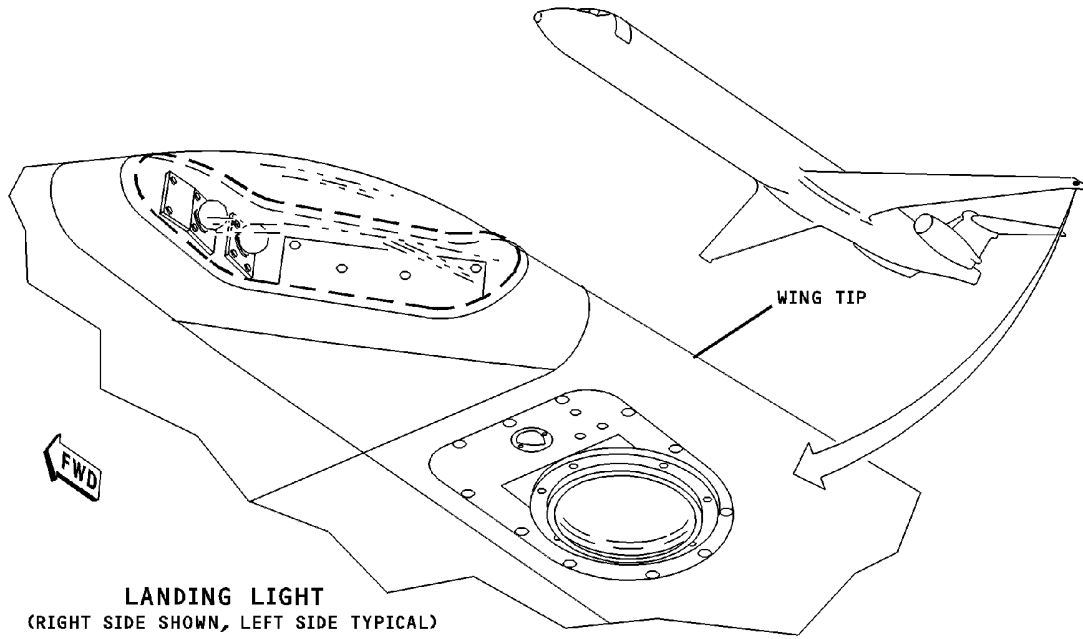
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# 33-41-02

Page 302  
Feb 01/2015

# MD-80 AIRCRAFT MAINTENANCE MANUAL



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**Wing Landing Light - Lubrication**  
Figure 301/33-41-02-990-804

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TP-80MM-WJE

## 33-41-02

Page 303  
Feb 01/2015



# MD-80 AIRCRAFT MAINTENANCE MANUAL

## WING LANDING LIGHTS - REMOVAL/INSTALLATION

### 1. General

- A. The removal and installation procedures for the left and right wing landing lights are identical. The light assembly and operating mechanism are attached to a dust cover, and are removed as a unit. A new light assembly should be preassembled and bench-adjusted before installation. Lamp replacement can be performed by removing the retaining ring. A flux valve is located in each wingtip adjacent to the wing landing light.

Work must not be performed on the lights during testing of the flux valve.

### 2. Equipment and Materials

NOTE: Equivalent substitutes may be used instead of the following listed items:

NOTE: It is possible that some materials in the Equipment and Materials List cannot be used for some or all of their necessary applications. Before you use the materials, make sure the types, quantities, and applications of the materials necessary are legally permitted in your location. All persons must obey all applicable federal, state, local, and provincial laws and regulations when it is necessary to work with these materials.

Name and Number	Manufacturer
Promoter, Adhesion, Silicone DPM 3202	
Sealant, Silicone Two-part, General Purpose DMS 1799	
Cleaner, Hand Wipe DPM 6380-3	
Wipers, Cleaning DMS 1820 T1A1	
Eye protection	

### 3. Removal/Installation Wing Landing Lights

**CAUTION:** TO PREVENT INTERFERENCE WITH CALIBRATED POSITION OF FLUX VALVE, DO NOT SUBSTITUTE HARDWARE WHEN INSTALLING COMPONENTS ADJACENT TO FLUX VALVE. STAINLESS STEEL, NONMAGNETIC HARDWARE MUST BE USED TO INSTALL LANDING LIGHT.

- A. Remove Light

**WARNING:** TAG AND SAFETY CIRCUIT BREAKERS.

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

#### **UPPER EPC, LIGHTS - LEFT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	12	B1-13	LEFT WING LANDING
K	13	B1-14	LEFT WING LANDING LIGHT CONTROL

#### **UPPER EPC, LIGHTS - RIGHT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
L	12	B1-15	RIGHT WING LANDING
L	13	B1-16	RIGHT WING LANDING LIGHT CONTROL

EFFECTIVITY  
WJE ALL

# 33-41-02

TP-80MM-WJE

Page 401  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

**NOTE:** Perform the steps that follow to remove the lamp from the landing light. Proceed to Paragraph 3.A.(5) to remove landing light as a unit (Figure 401).

**WARNING:** YOU MUST WEAR EYE PROTECTION WHEN WORKING IN THE AREA OF THE NOSEGEAR AND WING LANDING LIGHTS. THE LIGHTS CAN EXPLODE AND CAUSE SERIOUS INJURY TO PERSONNEL AND DAMAGE TO EQUIPMENT.

- (2) Remove the eight screws from the retaining ring.
- (3) Remove the retaining ring and gasket.
- (4) Hold the lamp and remove the two screws that attach the two wires to the lamp.

**WARNING:** YOU MUST WEAR EYE PROTECTION WHEN WORKING IN THE AREA OF THE NOSEGEAR AND WING LANDING LIGHTS. THE LIGHTS CAN EXPLODE AND CAUSE SERIOUS INJURY TO PERSONNEL AND DAMAGE TO EQUIPMENT.

- (5) Remove attaching screws and lift landing light and gasket from wingtip.
- (6) Disconnect electrical connector from landing light.

### B. Install Light

- (1) If necessary, install a new gasket onto the landing light lamp retaining ring as follows: (Figure 401).

**NOTE:** For aircraft without Honeywell/Grimes S/B 45-0057-33-003 perform (Paragraph 3.B.(1)(a)), for aircraft with Honeywell/Grimes S/B 45-0057-33-003 perform (Paragraph 3.B.(1)(b)).

**WARNING:** YOU MUST WEAR EYE PROTECTION WHEN WORKING IN THE AREA OF THE NOSEGEAR AND WING LANDING LIGHTS. THE LIGHTS CAN EXPLODE AND CAUSE SERIOUS INJURY TO PERSONNEL AND DAMAGE TO EQUIPMENT.

- (a) Examine the gasket for damage and deterioration. (Figure 401 (Sheet 1))
  - 1) If the gasket is damaged or deteriorated, discard the gasket and prepare the surface for a new gasket.
  - 2) Clean the retaining ring mating surface with cleaning wipes dampened with hand wipe cleaner.
  - 3) Apply a coat of silicone adhesion promoter to the retaining ring mating surface.
  - 4) Let the retaining ring air dry for 30 minutes minimum.
  - 5) Apply silicone sealant to the mating surfaces of the gasket and retaining ring.
  - 6) Install the gasket on the retaining ring and let dry for 4 hours minimum.

**WARNING:** YOU MUST WEAR EYE PROTECTION WHEN WORKING IN THE AREA OF THE NOSEGEAR AND WING LANDING LIGHTS. THE LIGHTS CAN EXPLODE AND CAUSE SERIOUS INJURY TO PERSONNEL AND DAMAGE TO EQUIPMENT.

- (b) Examine the gasket for damage and deterioration. (Figure 401 (Sheet 2))
  - 1) If the gasket is damaged or deteriorated, discard the gasket.
  - 2) Install the gasket on retaining ring and pull the twenty gasket pull-tabs thru the retaining ring holes and trim off the protruding pull tab.

**NOTE:** Ensure that enough of the tab remains to ensure retention of the gasket on the retaining ring.

- (2) If necessary, install lamp into landing light as follows: (Figure 401).

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

# 33-41-02

Page 402  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

- (a) Hold the lamp and install the two screws that attach the wires to the lamp.
- (b) Install the lamp with the filament parallel to the light assembly hinge.
- (c) Position retaining ring and secure it with the eight attaching screws. Tighten the screws in a cross/opposite pattern.
- (d) Make sure that these circuit breakers are open and have safety tags:

### UPPER EPC, LIGHTS - LEFT AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	12	B1-13	LEFT WING LANDING
K	13	B1-14	LEFT WING LANDING LIGHT CONTROL

### UPPER EPC, LIGHTS - RIGHT AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
L	12	B1-15	RIGHT WING LANDING
L	13	B1-16	RIGHT WING LANDING LIGHT CONTROL

- (e) Connect electrical connector to landing light.
- (f) Position gasket and landing light on wingtip. Secure with attaching screws.
- (g) Remove the safety tags and close these circuit breakers:

### UPPER EPC, LIGHTS - LEFT AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	12	B1-13	LEFT WING LANDING
K	13	B1-14	LEFT WING LANDING LIGHT CONTROL

### UPPER EPC, LIGHTS - RIGHT AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
L	12	B1-15	RIGHT WING LANDING
L	13	B1-16	RIGHT WING LANDING LIGHT CONTROL

**CAUTION:** DO NOT ALLOW LANDING LIGHTS TO REMAIN ON MORE THAN TEN MINUTES IN STILL, AMBIENT AIR. PROLONGED USE WILL CAUSE DAMAGE TO LIGHT ASSEMBLY.

- C. Place appropriate switch in the ON position to check proper operation of lights.
  - (1) Allow motor to cool after first extension for a period of 1 1/2 minutes before retracting assembly. Further operation requires a 3 1/2 minute cooling period between each subsequent operation, either extend or retract.

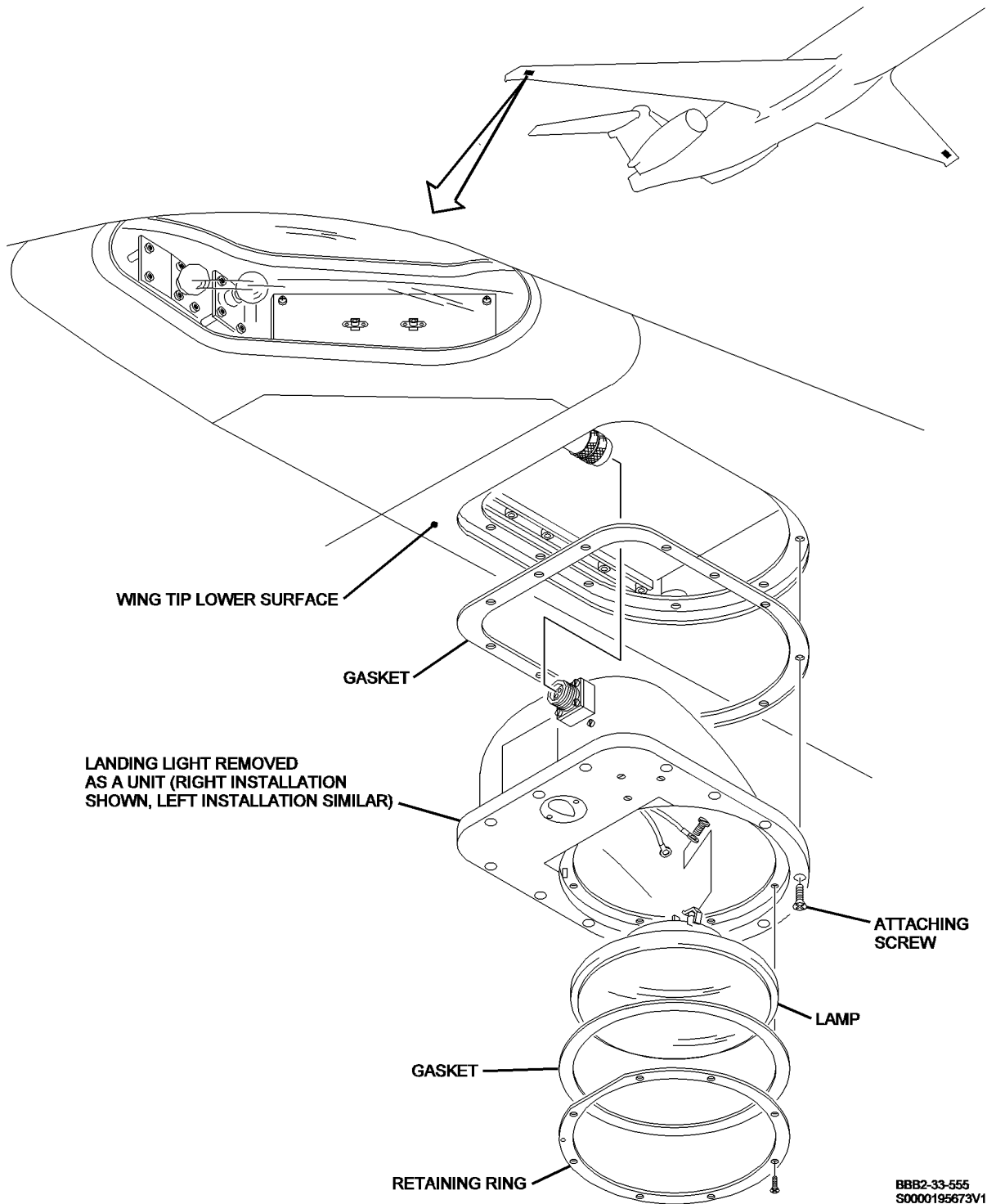
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**33-41-02**

TP-80MM-WJE

Page 403  
Feb 01/2015

# MD-80 AIRCRAFT MAINTENANCE MANUAL



Wing Landing light -- Removal/Installation  
Figure 401/33-41-02-990-803 (Sheet 1 of 2)

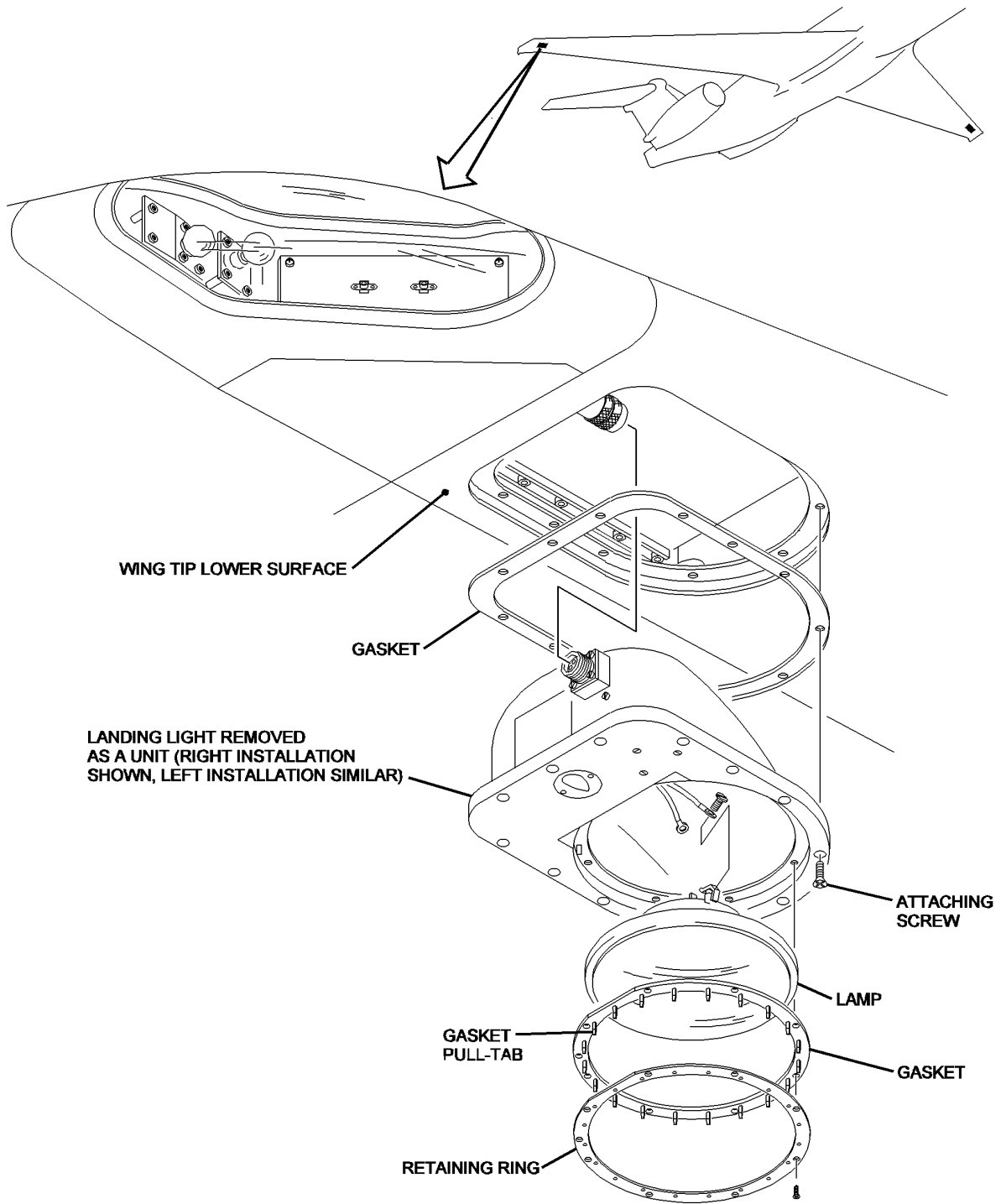
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TP-80MM-WJE

## 33-41-02

Page 404  
Feb 01/2015

# MD-80 AIRCRAFT MAINTENANCE MANUAL



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Wing Landing light -- Removal/Installation  
Figure 401/33-41-02-990-803 (Sheet 2 of 2)

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

## 33-41-02

Page 405  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### WING LANDING LIGHTS - ADJUSTMENT/TEST

#### 1. General

- A. The wing landing lights are located in the lower surface of the wing tips. A flux valve is installed adjacent to each landing light. Work must not be performed on the lights during testing of the valve. Adjustment/test procedures for the left and right lights are identical. The lights can be adjusted while installed. Allow motor to cool after first extension for a period of 1 1/2 minutes before retracting assembly. Further operation requires a 3 1/2 minute cooling period between each subsequent operation, either extend or retract.

#### 2. Adjustment/Test Wing Landing Lights

- A. Adjust Wing Landing Lights

**WARNING:** YOU MUST WEAR EYE PROTECTION WHEN WORKING IN THE AREA OF THE NOSEGEAR AND WING LANDING LIGHTS. THE LIGHTS CAN EXPLODE AND CAUSE SERIOUS INJURY TO PERSONNEL AND DAMAGE TO EQUIPMENT.

**CAUTION:** DO NOT ALLOW LANDING LIGHT TO REMAIN ON MORE THAN 10 MINUTES IN STILL, AMBIENT AIR. PROLONGED USE WILL CAUSE DAMAGE TO LIGHT ASSEMBLY.

- (1) With light in retracted position, adjust retract limit adjusting screw so retaining ring fairs with dust cover.

**CAUTION:** DO NOT ATTEMPT TO ADJUST LIGHT PAST FLUSH, OR MOTOR WILL DRIVE LIGHT AGAINST STOP AND MAY DAMAGE LIGHT ASSEMBLY OPERATING MECHANISM.

- (2) With light in extended position, adjust extend limit adjusting screw to obtain measurement of 11.38 inches (.289 meters)(92 1/4 degrees) between heel line indicated in Figure 501 and inside edge of landing light dust cover.

- (3) Check that light comes on during extension between .38 (9.53 mm) and 1.38 inches (34.93 mm)(5 and 12 degrees) from retracted position.

- (4) Check that applicable light goes off and then retracts when L WING LDG LTS or R WING LDT LTS switch is placed in RET position.

- B. Test Wing Landing Lights

**WARNING:** YOU MUST WEAR EYE PROTECTION WHEN WORKING IN THE AREA OF THE NOSEGEAR AND WING LANDING LIGHTS. THE LIGHTS CAN EXPLODE AND CAUSE SERIOUS INJURY TO PERSONNEL AND DAMAGE TO EQUIPMENT.

**CAUTION:** DO NOT ALLOW LANDING LIGHT TO REMAIN ON MORE THAN 10 MINUTES IN STILL, AMBIENT AIR. PROLONGED USE WILL CAUSE DAMAGE TO LIGHT ASSEMBLY.

- (1) Place L WING LDG LTS switch, located on glareshield, in EXT ON position. Check that left wing landing light extends and comes on.
- (2) Place L WING LDG LTS switch in EXT OFF position. Check that left wing landing light goes off but remains extended.
- (3) Place L WING LDG LTS switch in RET position. Check that left wing landing light retracts.
- (4) Place R WING LDG LTS switch in EXT ON position. Check that right wing landing light extends and comes on.
- (5) Place R WING LDG LTS switch in EXT OFF position. Check that right wing landing light goes off but remains extended.

EFFECTIVITY  
WJE ALL

**33-41-02**

TP-80MM-WJE

Page 501  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

- (6) Place R WING LDG LTS switch in RET position. Check that right wing landing light retracts.

**WARNING:** NORMAL ELECTRICAL POWER SUPPLY TO VARIOUS SYSTEMS WILL BE INTERRUPTED WHEN GROUND CONTROL RELAY CIRCUIT BREAKERS ARE OPENED. MAKE CERTAIN THAT SWITCHES ARE IN CORRECT POSITIONS TO PREVENT INADVERTENT OPERATION OR SHUTDOWN OF EQUIPMENT.

- (7) Open these circuit breakers:

**UPPER EPC, L AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
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**WJE 417, 419, 421, 423, 865, 869, 871, 872**

K	30	B1-23	LEFT GROUND CONTROL RELAY
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**WJE 401-412, 414-416, 418, 420, 422, 424-427, 429, 861-864, 866, 868, 873-881, 883, 884, 886, 887, 891-893**

K	33	B1-23	LEFT GROUND CONTROL RELAY
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**WJE ALL**

- (8) Attach jumper wire from aircraft structure to terminal 3C of left ground control relay (R2-283) located on Sta. 110 relay panel.

- (9) Close these circuit breakers:

**UPPER EPC, L AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
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**WJE 417, 419, 421, 423, 865, 869, 871, 872**

K	30	B1-23	LEFT GROUND CONTROL RELAY
---	----	-------	---------------------------

**WJE 401-412, 414-416, 418, 420, 422, 424-427, 429, 861-864, 866, 868, 873-881, 883, 884, 886, 887, 891-893**

K	33	B1-23	LEFT GROUND CONTROL RELAY
---	----	-------	---------------------------

**WJE ALL**

- (10) Place L WING LDG LTS switch in EXT ON position. Check that left wing landing light extends and comes on.
- (11) Place R WING LDG LTS switch in EXT ON position. Check that right wing landing light extends and comes on.
- (12) Open these circuit breakers:

**UPPER EPC, L AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
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**WJE 417, 419, 421, 423, 865, 869, 871, 872**

K	30	B1-23	LEFT GROUND CONTROL RELAY
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**WJE 401-412, 414-416, 418, 420, 422, 424-427, 429, 861-864, 866, 868, 873-881, 883, 884, 886, 887, 891-893**

K	33	B1-23	LEFT GROUND CONTROL RELAY
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**WJE ALL**

**WARNING:** MOVE LANDING GEAR CONTROL LEVER FROM DETENT ONLY. DO NOT ALLOW LEVER TO MOVE TOWARD UP POSITION.

- (13) With landing gear down and locked, move landing gear control lever just out of detent position (do not retract gear).
- (14) Check that left and right wing landing lights go off and retract.
- (15) Place landing gear control lever to down detent position.

EFFECTIVITY  
WJE ALL

**33-41-02**

TP-80MM-WJE

## MD-80 AIRCRAFT MAINTENANCE MANUAL

- (16) Check that left and right wing landing lights extend and come on.
- (17) Place R WING LDG LTS switch in RET position. Check that right wing landing light goes off and retracts.
- (18) Place L WING LDG LTS switch in RET position. Check that left wing landing light goes off and retracts.
- (19) Remove jumper wire from aircraft structure and terminal 3C of left ground control relay (R2-283).
- (20) Close these circuit breakers:

### UPPER EPC, L AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 417, 419, 421, 423, 865, 869, 871, 872</b>			
K	30	B1-23	LEFT GROUND CONTROL RELAY
<b>WJE 401-412, 414-416, 418, 420, 422, 424-427, 429, 861-864, 866, 868, 873-881, 883, 884, 886, 887, 891-893</b>			
K	33	B1-23	LEFT GROUND CONTROL RELAY

### WJE ALL

- (21) Return aircraft to required configuration.
- C. Automatic Retraction Test Wing Landing Lights
- NOTE:** The alternate test of the wing landing lights is to be accomplished only during a normal engine run.

**WARNING:** YOU MUST WEAR EYE PROTECTION WHEN WORKING IN THE AREA OF THE NOSEGEAR AND WING LANDING LIGHTS. THE LIGHTS CAN EXPLODE AND CAUSE SERIOUS INJURY TO PERSONNEL AND DAMAGE TO EQUIPMENT.

**CAUTION:** DO NOT ALLOW LANDING LIGHT TO REMAIN ON MORE THAN 10 MINUTES IN STILL, AMBIENT AIR. PROLONGED USE WILL CAUSE DAMAGE TO LIGHT ASSEMBLY.

- (1) Place L WING LDG LTS switch, located on glareshield, in EXT ON position. Check that left wing landing light extends and comes on.
- (2) Place L WING LDG LTS switch in EXT OFF position. Check that left wing landing light goes off but remains extended.
- (3) Place L WING LDG LTS switch in RET position. Check that left wing landing light retracts.
- (4) Place R WING LDG LTS switch in EXT ON position. Check that right wing landing light extends and comes on.
- (5) Place R WING LDG LTS switch in EXT OFF position. Check that right wing landing light goes off but remains extended.
- (6) Place R WING LDG LTS switch in RET position. Check that right wing landing light retracts.
- (7) Place L WING LDG LTS switch in EXT ON position. Check that left wing landing light extends and comes on.
- (8) Place R WING LDG LTS switch in EXT ON position. Check that right wing landing light extends and comes on.

EFFECTIVITY  
WJE ALL

# 33-41-02

TP-80MM-WJE

Page 503  
Feb 01/2016



## MD-80 AIRCRAFT MAINTENANCE MANUAL

**WARNING:** NORMAL ELECTRICAL POWER SUPPLY TO VARIOUS SYSTEMS WILL BE INTERRUPTED WHEN GROUND CONTROL RELAY CIRCUIT BREAKERS ARE OPENED. MAKE CERTAIN THAT SWITCHES ARE IN CORRECT POSITIONS TO PREVENT INADVERTENT OPERATION OR SHUTDOWN OF EQUIPMENT.

- (9) Open these circuit breakers:

**UPPER EPC, L AC BUS**

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

**WJE 417, 419, 421, 423, 865, 869, 871, 872**

K	30	B1-23	LEFT GROUND CONTROL RELAY
---	----	-------	---------------------------

**WJE 401-412, 414-416, 418, 420, 422, 424-427, 429, 861-864, 866, 868, 873-881, 883, 884, 886, 887, 891-893**

K	33	B1-23	LEFT GROUND CONTROL RELAY
---	----	-------	---------------------------

**WJE ALL**

- (10) Check that landing gear ground lockpins are installed.

**WARNING:** MOVE LANDING GEAR CONTROL LEVER FROM DETENT ONLY. DO NOT ALLOW LEVER TO MOVE TOWARD UP POSITION.

- (11) With landing gear down and locked, move landing gear control lever just out of detent position (do not retract gear).
- (12) Set left engine to idle and set right engine to 1.31(±.07) EPR.
- (13) Check that left and right wing landing lights go off and retract.
- (14) Set both engines to idle.
- (15) Check that left and right wing landing lights extend and come on.
- (16) Set left engine to 1.31(±.07) EPR.
- (17) Check that left and right wing landing lights go off and retract.
- (18) Set both engines to idle.
- (19) Place landing gear control lever to down detent position.
- (20) Check that left and right wing landing lights extend and come on.
- (21) Place R WING LDG LTS switch in RET position. Check that right wing landing light goes off and retracts.
- (22) Place L WING LDG LTS switch in RET position. Check that left wing landing light goes off and retracts.
- (23) Close these circuit breakers:

**UPPER EPC, L AC BUS**

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

**WJE 417, 419, 421, 423, 865, 869, 871, 872**

K	30	B1-23	LEFT GROUND CONTROL RELAY
---	----	-------	---------------------------

**WJE 401-412, 414-416, 418, 420, 422, 424-427, 429, 861-864, 866, 868, 873-881, 883, 884, 886, 887, 891-893**

K	33	B1-23	LEFT GROUND CONTROL RELAY
---	----	-------	---------------------------

**WJE ALL**

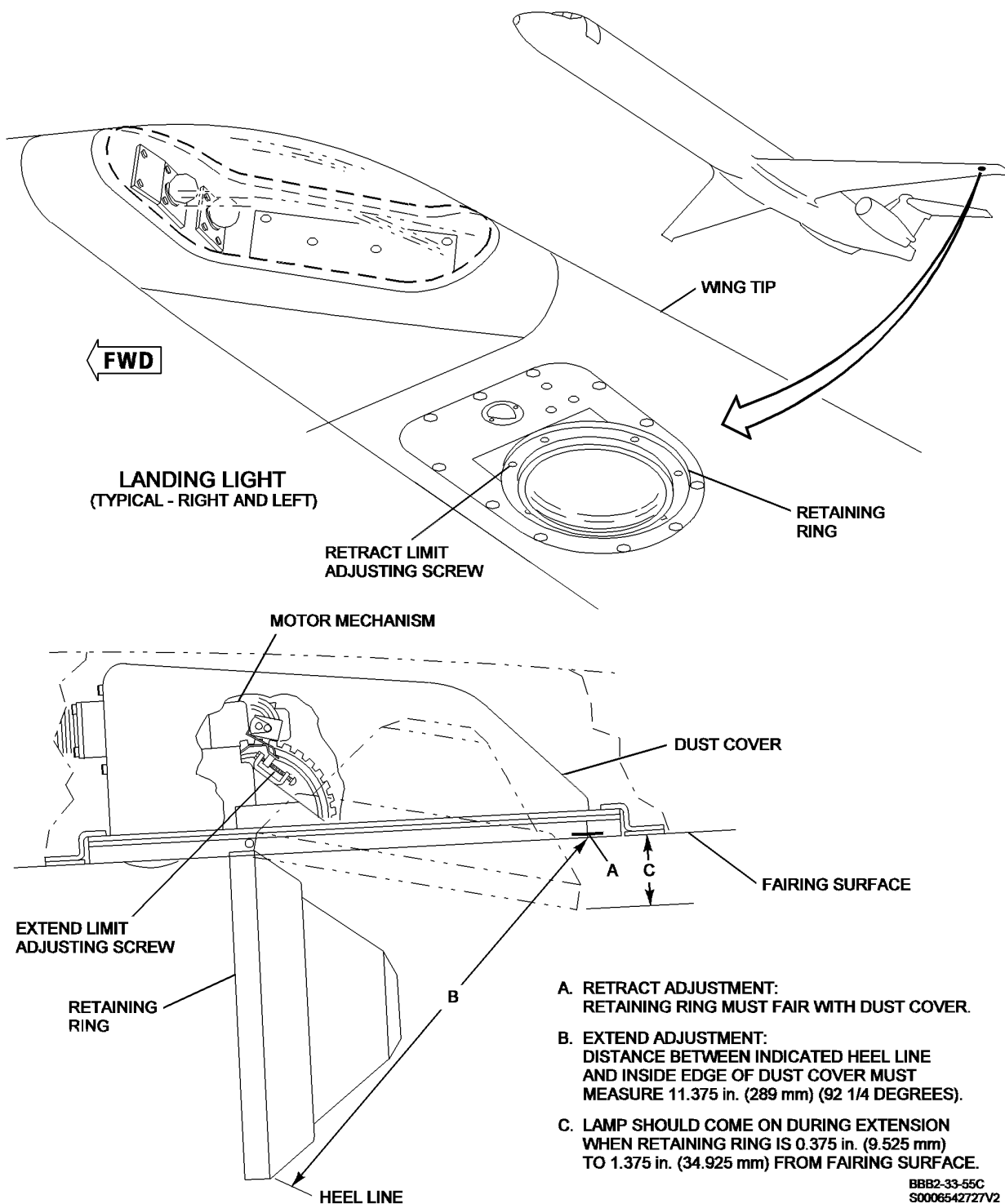
- (24) Return aircraft to required configuration.

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**33-41-02**

TP-80MM-WJE

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



**Wing Landing Lights -- Adjustment/Test  
Figure 501/33-41-02-990-802**

EFFECTIVITY  
WJE ALL

**33-41-02**

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### WING LANDING LIGHTS - CHECK

#### 1. General

- A. Check procedures for the left and right wing landing lights are identical. If either light fails to meet the requirements indicated below, refer to the adjustment/test procedure for corrective action.
- B. After the first extension of a wing landing light, allow the motor to cool for a period of 1 1/2 minutes before retraction. Each subsequent operation, either extend or retract, requires a 3 1/2 minute cooling period.

#### 2. Check Wing Landing Lights

- A. Check Wing Landing Lights

**WARNING:** YOU MUST WEAR EYE PROTECTION WHEN WORKING IN THE AREA OF THE NOSEGEAR AND WING LANDING LIGHTS. THE LIGHTS CAN EXPLODE AND CAUSE SERIOUS INJURY TO PERSONNEL AND DAMAGE TO EQUIPMENT.

**CAUTION:** DO NOT ALLOW LANDING LIGHT TO REMAIN ON MORE THAN 10 MINUTES IN STILL, AMBIENT AIR. PROLONGED USE WILL CAUSE DAMAGE TO LIGHT.

- (1) With light in retracted position, check that light retaining ring fits with dust cover.

**WARNING:** YOU MUST WEAR EYE PROTECTION WHEN WORKING IN THE AREA OF THE NOSEGEAR AND WING LANDING LIGHTS. THE LIGHTS CAN EXPLODE AND CAUSE SERIOUS INJURY TO PERSONNEL AND DAMAGE TO EQUIPMENT.

**CAUTION:** DO NOT ATTEMPT TO ADJUST LIGHT PAST FLUSH, OR MOTOR WILL DRIVE LIGHT AGAINST STOP AND MAY DAMAGE LIGHT OPERATING MECHANISM.

- (2) With light in extended position, check measurement between heel line indicated and inside edge of landing light dust cover. Measurement should be 11.375 inches (289 mm) (92 1/4 degrees). (Figure 601)

**WARNING:** YOU MUST WEAR EYE PROTECTION WHEN WORKING IN THE AREA OF THE NOSEGEAR AND WING LANDING LIGHTS. THE LIGHTS CAN EXPLODE AND CAUSE SERIOUS INJURY TO PERSONNEL AND DAMAGE TO EQUIPMENT.

- (3) Check that light comes on during extension when retaining ring is 0.375 inch (9.525 mm) to 1.375 (34.925 mm) inches (5 to 12 degrees) from fairing surface of lower wingtip.

- (4) Check that applicable light goes off and then retracts when L WING LDG LTS or R WING LDG LTS switch is placed in RET position.

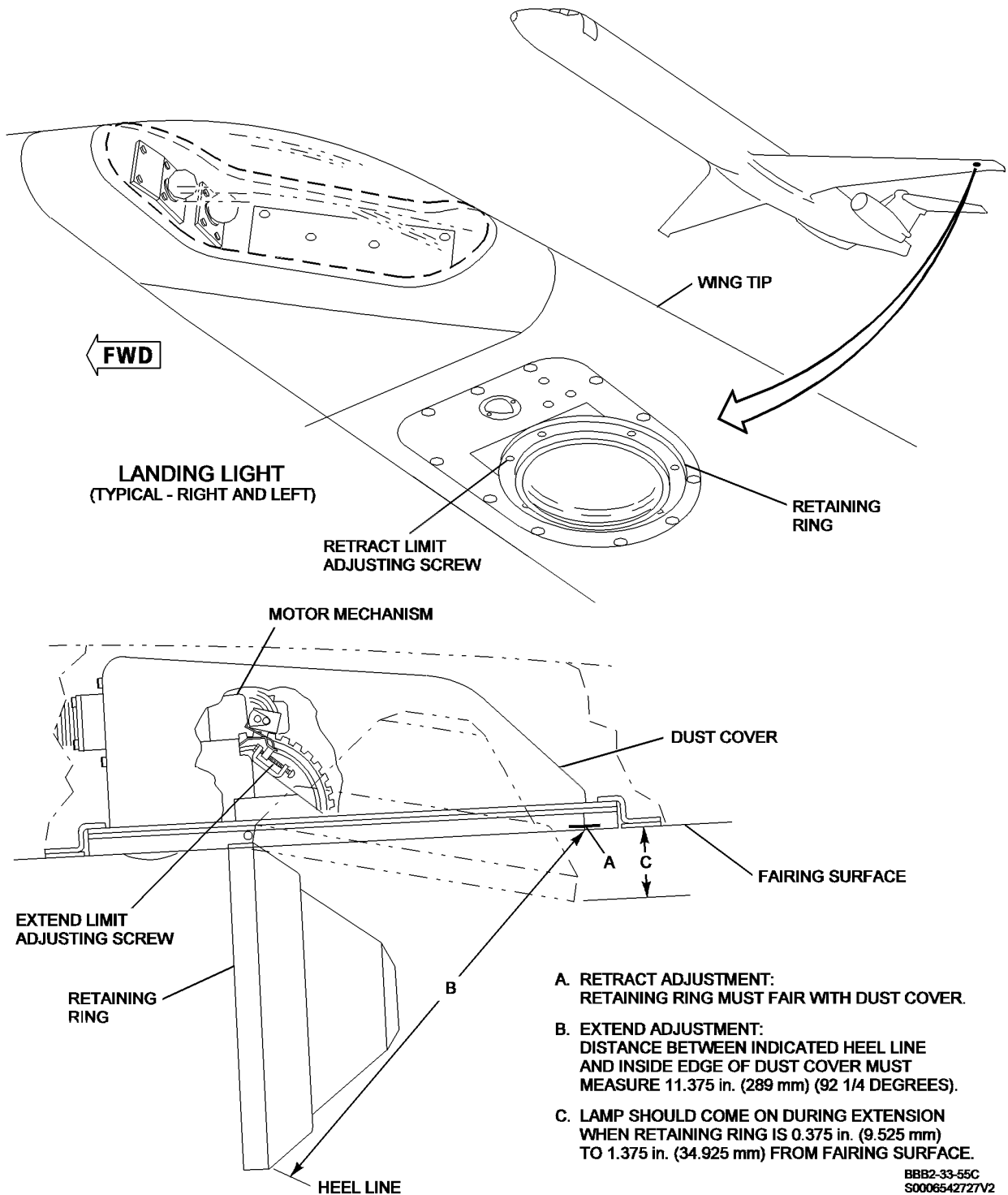
EFFECTIVITY  
WJE ALL

TP-80MM-WJE

# 33-41-02

Page 601  
Feb 01/2015

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



**Wing Landing Light -- Check  
Figure 601/33-41-02-990-801**

EFFECTIVITY  
WJE ALL

**33-41-02**

# MD-80 AIRCRAFT MAINTENANCE MANUAL

## LANDING AND TAXI LIGHT SWITCHES - REMOVAL/INSTALLATION

### 1. General

- A. This chapter provides removal/installation procedures for the landing and taxi light switches. The landing and taxi light switches are located in the left side of the glareshield. The procedure as written is for the NOSE LTS switch but the procedure is the same for the R WING LDG LTS and L WING LDG LTS switches.

### 2. Removal/Installation

- A. Remove Switch

**WARNING:** TAG AND SAFETY CIRCUIT BREAKERS.

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

#### **UPPER EPC, LIGHTS - LEFT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	12	B1-13	LEFT WING LANDING
K	13	B1-14	LEFT WING LANDING LIGHT CONTROL
K	14	B1-19	LEFT NOSE GEAR LANDING & TAXI
K	18	B1-306	INTEGRAL LIGHTS CENTER INST PANEL

#### **UPPER EPC, LIGHTS - RIGHT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
L	12	B1-15	RIGHT WING LANDING
L	13	B1-16	RIGHT WING LANDING LIGHT CONTROL
L	14	B1-20	RIGHT NOSE GEAR LANDING & TAXI

- (2) Remove screws from handles on NOSE LTS, R WING LDG LTS and L WING LDG LTS switches.
- (3) Remove all three switch handles.
- (4) Remove screws from the light plate.
- (5) Remove light plate.
- (6) Remove lock-nut on L WING LDG LTS switch.
- (7) Remove screw from switch cover.
- (8) Lower L WING LDG LTS switch from glareshield and remove switch cover and washer.
- (9) Remove lock-nut from NOSE LTS switch.
- (10) Remove NOSE LTS switch from the glareshield.

**CAUTION:** WIRES MUST BE LABELED TO PREVENT INCORRECT PLACEMENT WHEN SWITCH IS INSTALLED.

- (11) Disconnect wires from NOSE LTS switch terminals.

- B. Install Switch

**WARNING:** TAG AND SAFETY CIRCUIT BREAKERS.

- (1) Make sure that these circuit breakers are open and have safety tags:

#### **UPPER EPC, LIGHTS - LEFT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	12	B1-13	LEFT WING LANDING

EFFECTIVITY  
WJE ALL

# 33-41-03

TP-80MM-WJE

## MD-80 AIRCRAFT MAINTENANCE MANUAL

(Continued)

### UPPER EPC, LIGHTS - LEFT AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	13	B1-14	LEFT WING LANDING LIGHT CONTROL
K	14	B1-19	LEFT NOSE GEAR LANDING & TAXI
K	18	B1-306	INTEGRAL LIGHTS CENTER INST PANEL

### UPPER EPC, LIGHTS - RIGHT AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
L	12	B1-15	RIGHT WING LANDING
L	13	B1-16	RIGHT WING LANDING LIGHT CONTROL
L	14	B1-20	RIGHT NOSE GEAR LANDING & TAXI

**CAUTION:** BE SURE TO CONNECT CORRECT WIRE TO EACH TERMINAL. IMPROPER CONNECTIONS COULD DAMAGE EQUIPMENT.

- (2) Connect wires to NOSE LTS switch terminals.
- (3) Install NOSE LTS switch in glareshield and tighten lock-nut.
- (4) Install washer on L WING LDG LTS switch and insert switch into switch cover.
- (5) Install L WING LDG LTS switch in glareshield.
- (6) Install lock-nut on L WING LDG LTS switch but do not tighten.
- (7) Install screw in switch cover.
- (8) Tighten lock-nut on L WING LDG LTS switch.
- (9) Install light plate.
- (10) Install screws in light plate.
- (11) Install handles on NOSE LTS, R WING LDG LTS and L WING LDG LTS switches.
- (12) Install screws in switch handles.
- (13) Remove the safety tags and close these circuit breakers:

### UPPER EPC, LIGHTS - LEFT AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	12	B1-13	LEFT WING LANDING
K	13	B1-14	LEFT WING LANDING LIGHT CONTROL
K	14	B1-19	LEFT NOSE GEAR LANDING & TAXI
K	18	B1-306	INTEGRAL LIGHTS CENTER INST PANEL

### UPPER EPC, LIGHTS - RIGHT AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
L	12	B1-15	RIGHT WING LANDING
L	13	B1-16	RIGHT WING LANDING LIGHT CONTROL
L	14	B1-20	RIGHT NOSE GEAR LANDING & TAXI

- (14) Place NOSE LTS switch to DIM, then BRT, then OFF; check that NLG Landing and Taxi Lights dim and brighten properly.

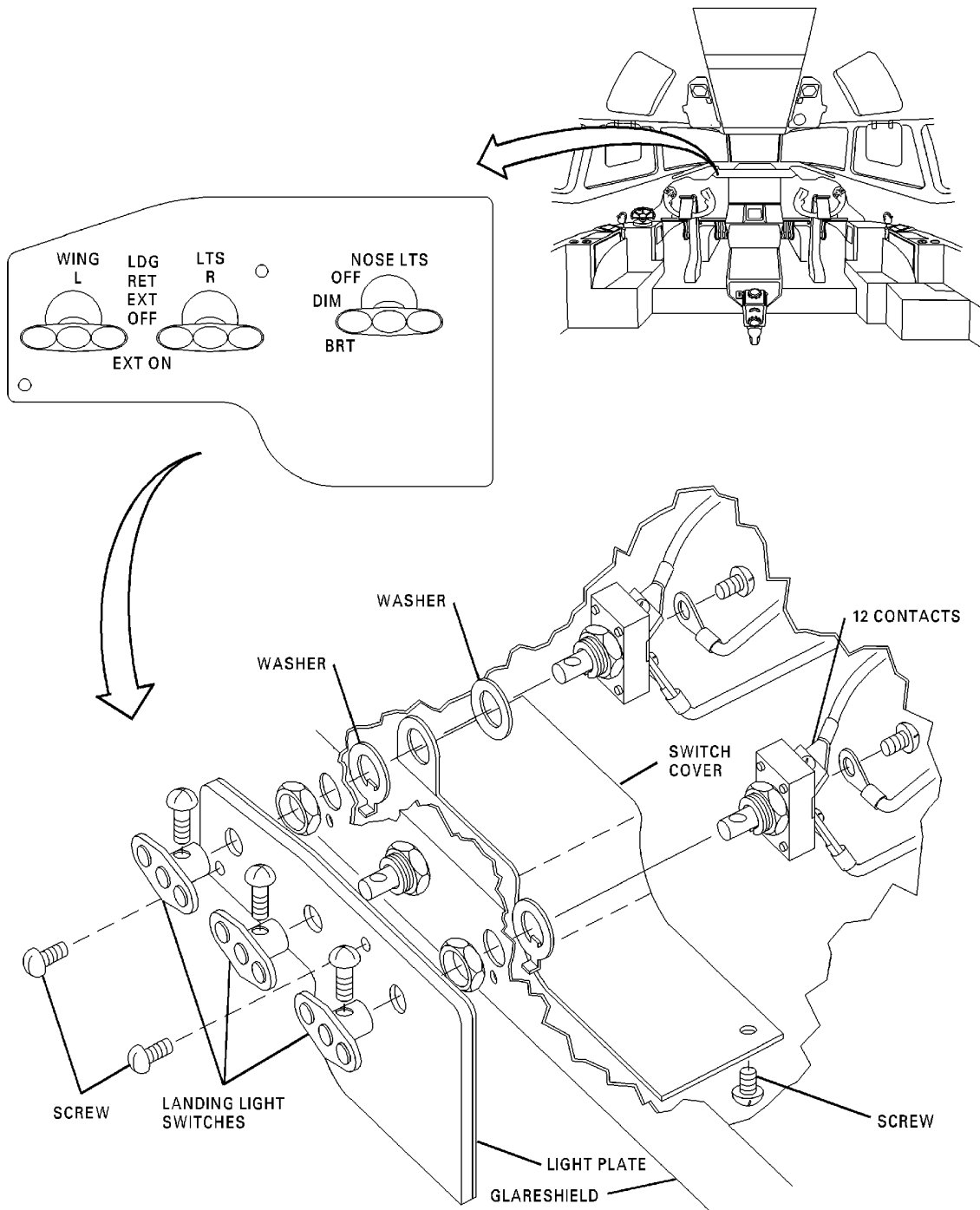
EFFECTIVITY  
WJE ALL

# 33-41-03

TP-80MM-WJE

Page 402  
Feb 01/2015

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



CAG(IGDS)

BBB2-33-400

**Nose Landing Gear Light Switch - Removal/Installation**  
**Figure 401/33-41-03-990-801**

EFFECTIVITY  
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**33-41-03**

TP-80MM-WJE

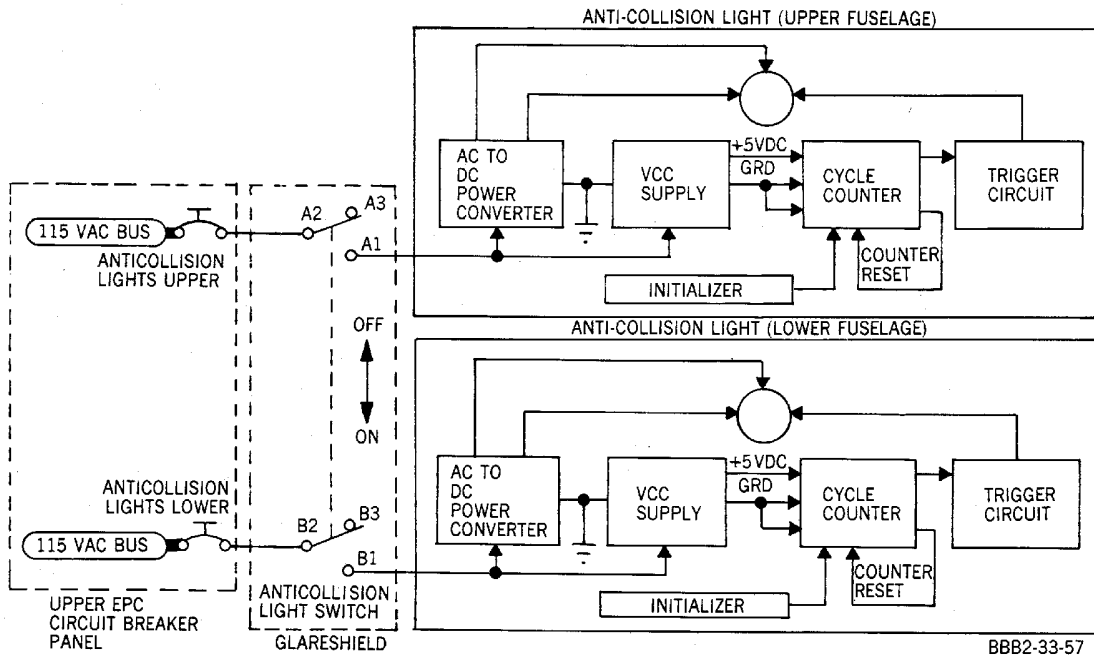
Page 403  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### ANTICOLLISION LIGHTS - DESCRIPTION AND OPERATION

#### 1. General

- A. The anticollision lights consist of two lights; one on the upper fuselage surface and the other on the lower fuselage surface.
- B. The anticollision lights consist of a flash tube encircling a reflector and electronic circuitry to convert ac to dc for the flash tube and a trigger pulse to fire the flash tube. A trigger pulse fires the flash tube at the rate of 60 times per minute. The lights are controlled by a single on/off switch on the glareshield. A red lens covers the light.



**Anticollision Lights -- Simplified Schematic**  
**Figure 1/33-42-00-990-801**

EFFECTIVITY  
WJE ALL

**33-42-00**

TP-80MM-WJE

Page 1  
Feb 01/2015



# MD-80 AIRCRAFT MAINTENANCE MANUAL

## ANTICOLLISION LIGHTS - MAINTENANCE PRACTICES

### 1. General

- A. This maintenance practice covers the removal/installation of the upper and lower anticollision lights.
- B. Access to the upper anticollision light is through access door 5824C, located in the cabin ceiling.
- C. Access to the lower anticollision light is from outside the aircraft.
- D. When relamping is required, replacement of capacitors is recommended. It is not recommended to relamp or replace capacitors on the aircraft.

### 2. Equipment and Materials

NOTE: Equivalent substitutes may be used instead of the following listed items:

NOTE: It is possible that some materials in the Equipment and Materials List cannot be used for some or all of their necessary applications. Before you use the materials, make sure the types, quantities, and applications of the materials necessary are legally permitted in your location. All persons must obey all applicable federal, state, local, and provincial laws and regulations when it is necessary to work with these materials.

**Table 201**

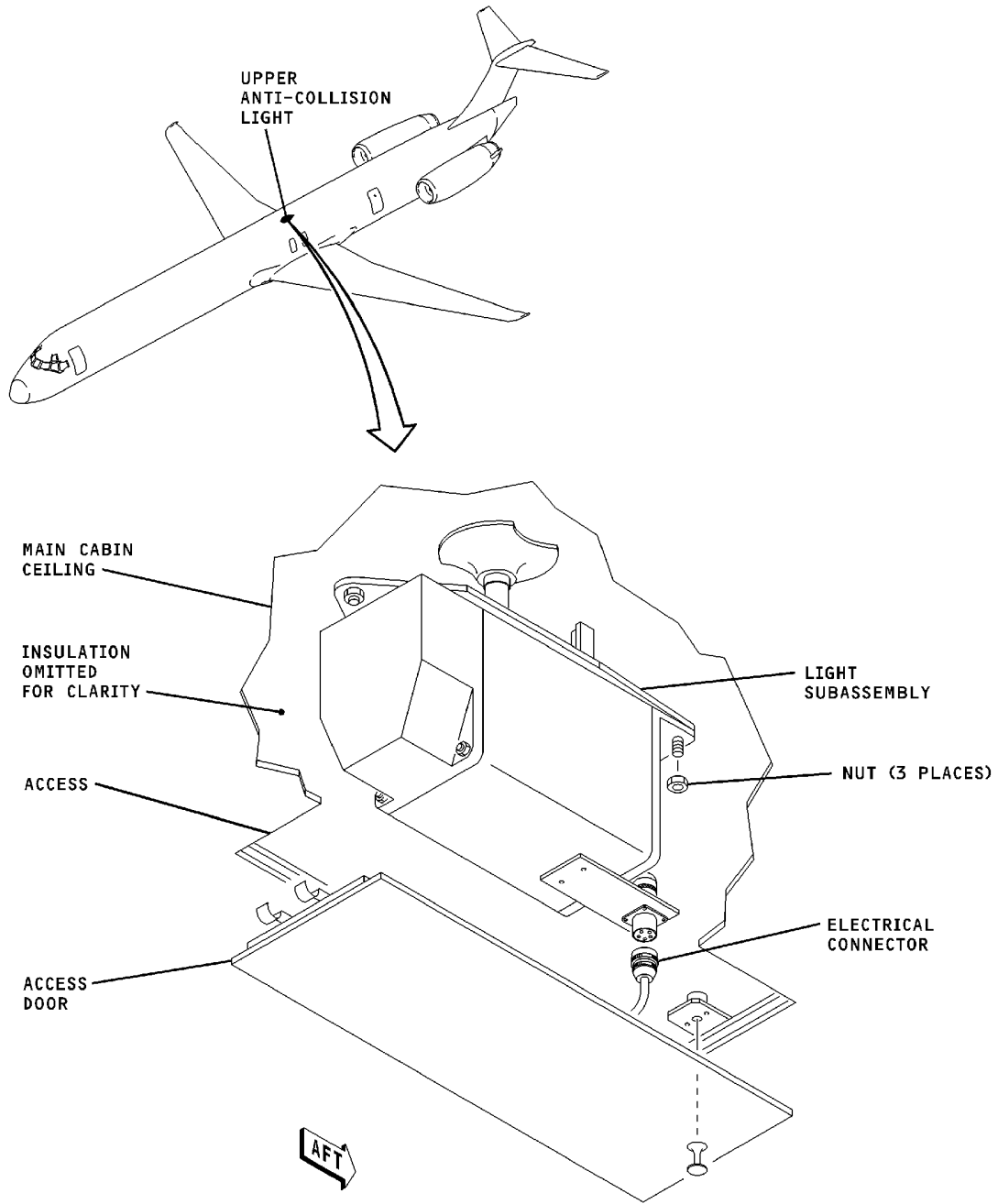
Name and Number	Manufacturer
Sealant PR-1422 QPL 2082	Techcon Systems, Inc. Carson, CA
Drycleaning Solvent P-D-680 DPM 518	Standard Oil of California
Detergent DPM 3673	Proctor & Gamble Mfg. Co. Cincinnati, OH

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

# 33-42-01

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



**UPPER ANTI-COLLISION LIGHT**

CAG(IGDS)

BBB2-33-86A

**Anticollision Lights -- Removal/Installation  
Figure 201/33-42-01-990-801**

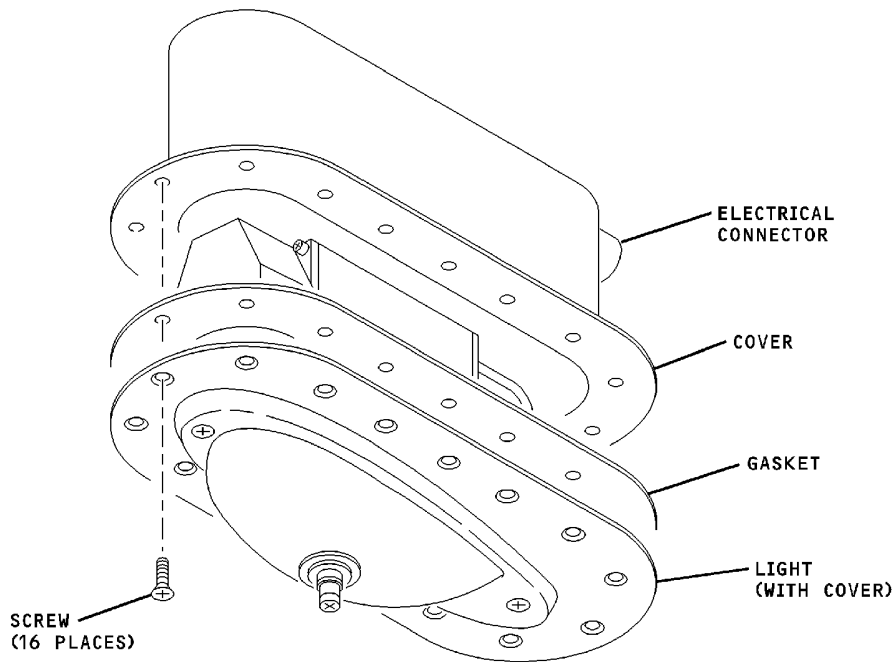
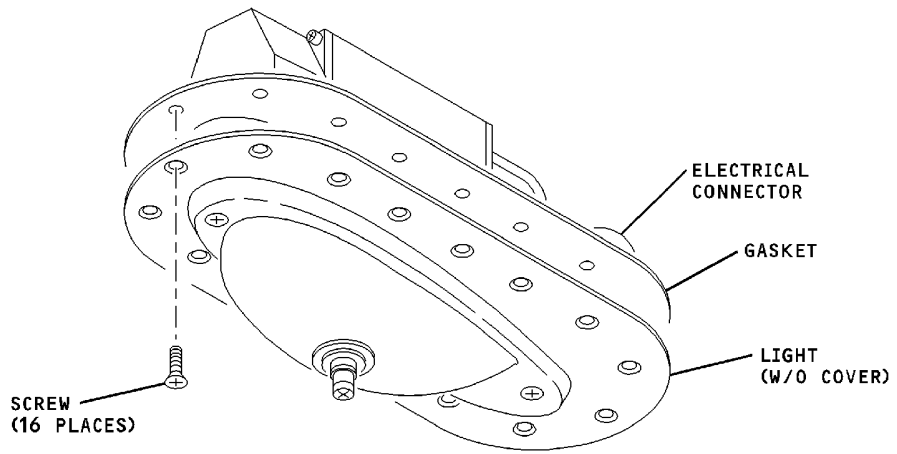
EFFECTIVITY  
WJE ALL

TP-80MM-WJE

**33-42-01**

Page 202  
Feb 01/2015

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



**LOWER ANTI-COLLISION LIGHT**

CAG(IGDS)

BBB2-33-420

**Anticollision Lights -- Removal/Installation  
Figure 202/33-42-01-990-802**

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

**33-42-01**

Page 203  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### 3. Removal/Installation Upper Anticollision Light

#### A. Remove Upper Anticollision Light

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

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

**UPPER EPC, LIGHTS - RIGHT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
L	11	B1-99	UPPER ANTI-COLLISION

- (2) Open access door 5824C.

**WARNING:** DANGEROUS VOLTAGE. ALLOW 2 MINUTES FOR CAPACITOR DISCHARGE AFTER DEENERGIZING. MAKE CERTAIN THAT DUST COVER IS INSTALLED ON ELECTRICAL RECEPTACLE DURING REMOVAL/INSTALLATION. CONTACT WITH RECEPTACLE PIN CAN CAUSE INJURY.

- (3) Disconnect electrical connector from light.
- (4) Remove electronic housing and light from mounting flange as a single unit.

#### B. Install Upper Anticollision Light

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

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

**UPPER EPC, LIGHTS - RIGHT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
L	11	B1-99	UPPER ANTI-COLLISION

**WARNING:** LIQUID DETERGENT IS AN AGENT THAT IS AN IRRITANT. MAKE SURE ALL PERSONS OBEY THE PRECAUTIONS WHEN LIQUID DETERGENT IS USED.

- DO NOT USE IN AREAS WHERE THERE IS HIGH HEAT, SPARKS, OR FLAMES.
- USE IN AN AREA OPEN TO THE AIR.
- CLOSE THE CONTAINER WHEN NOT USED.
- DO NOT GET LIQUID DETERGENT IN THE EYES, ON THE SKIN, OR ON YOUR CLOTHES.
- DO NOT BREATHE THE GAS.

**WARNING:** REFER TO THE APPLICABLE MANUFACTURER'S OR SUPPLIER'S MSDS FOR:

- MORE PRECAUTIONARY DATA
- APPROVED SAFETY EQUIPMENT
- EMERGENCY MEDICAL AID.

TALK WITH THE LOCAL SAFETY DEPARTMENT OR AUTHORITIES FOR THE PROCEDURES TO DISCARD THIS HAZARDOUS AGENT.

EFFECTIVITY  
WJE ALL

# 33-42-01

TP-80MM-WJE

Page 204  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

**(WARNING PRECEDES)**

- (2) If existing lens is retained for use, clean inside of lens with solution of mild detergent and water. Wipe clean with lint free cloth.

NOTE: Upper anti-collision lights are shipped with a serviceable red lens installed. The lens is included with each unit to protect the flash tube and reflector. The serviceable red lens provides an available lens, should the existing lens require replacement. If the lens from the serviceable light is not needed, install lens on unserviceable unit to protect flash tube and reflector during shipping.

- (3) Install electronic housing and light on mounting flange.
- (4) Connect electrical connector to light.
- (5) Remove the safety tag and close this circuit breaker:

**UPPER EPC, LIGHTS - RIGHT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
L	11	B1-99	UPPER ANTI-COLLISION

WARNING: DO NOT STARE AT STROBE LIGHTS WHEN FLASHING. TEMPORARY VISION IMPAIRMENT MAY RESULT.

- (6) Place ANTICOLLISION LIGHT switch, located on glareshield, in ON position.

**WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893**

- (7) Check that upper anticollision light comes on and flashes 60 flashes per minute.

**WJE ALL**

- (8) Place ANTICOLLISION LIGHT switch in OFF position.
- (9) Check that lights go off.

**4. Removal/Installation Upper Anti-Collision Light Lens**

- A. Remove Upper Anti-Collision Light Lens

WARNING: TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

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

**UPPER EPC, LIGHTS - RIGHT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
L	11	B1-99	UPPER ANTI-COLLISION

- (2) Open access door 5824C (Figure 201).

WARNING: DANGEROUS VOLTAGE. ALLOW 2 MINUTES FOR CAPACITOR DISCHARGE AFTER DEENERGIZING. MAKE CERTAIN THAT DUST COVER IS INSTALLED ON ELECTRICAL RECEPTACLE DURING REMOVAL/INSTALLATION. CONTACT WITH RECEPTACLE PIN CAN CAUSE INJURY.

- (3) Disconnect electrical connector from upper anti-collision light.
- (4) Remove nuts and electronic housing/light from mounting flange as single unit. (Figure 203)
- (5) Remove screws from light lens mounting flange; remove upper anti-collision light lens and gasket, and discard gasket.

EFFECTIVITY <b>WJE ALL</b>
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**33-42-01**

## MD-80 AIRCRAFT MAINTENANCE MANUAL

B. Install Upper Anti-Collision Light Lens

**NOTE:** When relamping is required, replacement of the capacitor is recommended. It is not recommended to relamp or replace capacitor on the aircraft.

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

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

**UPPER EPC, LIGHTS - RIGHT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
L	11	B1-99	UPPER ANTI-COLLISION

- (2) Use nonmetallic scraper to remove any existing sealant from fuselage skin and mounting flange.

**WARNING:** P-D-680 TYPE 1 SOLVENT IS AN AGENT THAT IS FLAMMABLE AND POISONOUS. MAKE SURE ALL PERSONS OBEY ALL OF THE PRECAUTIONS WHEN P-D-680 TYPE 1 SOLVENT IS USED.

- DO NOT USE IN AREAS WHERE THERE IS HIGH HEAT, SPARKS, OR FLAMES.
- USE IN AN AREA OPEN TO THE AIR.
- CLOSE THE CONTAINER WHEN NOT USED.
- DO NOT GET P-D-680 TYPE 1 SOLVENT IN THE EYES, ON THE SKIN, OR ON YOUR CLOTHES.
- DO NOT BREATHE THE GAS.

**WARNING:** REFER TO THE APPLICABLE MANUFACTURER'S OR SUPPLIER'S MSDS FOR:

- MORE PRECAUTIONARY DATA
- APPROVED SAFETY EQUIPMENT
- EMERGENCY MEDICAL AID.

TALK WITH THE LOCAL SAFETY DEPARTMENT OR AUTHORITIES FOR THE PROCEDURES TO DISCARD THIS HAZARDOUS AGENT.

- (3) Clean surface around mounting flange with (PD-680) solvent.  
 (4) Position gasket on mounting flange.

**WARNING:** LIQUID DETERGENT IS AN AGENT THAT IS AN IRRITANT. MAKE SURE ALL PERSONS OBEY THE PRECAUTIONS WHEN LIQUID DETERGENT IS USED.

- DO NOT USE IN AREAS WHERE THERE IS HIGH HEAT, SPARKS, OR FLAMES.
- USE IN AN AREA OPEN TO THE AIR.
- CLOSE THE CONTAINER WHEN NOT USED.
- DO NOT GET LIQUID DETERGENT IN THE EYES, ON THE SKIN, OR ON YOUR CLOTHES.
- DO NOT BREATHE THE GAS.

EFFECTIVITY	
WJE ALL	

# 33-42-01

TP-80MM-WJE

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### (WARNING PRECEDES)

**WARNING:** REFER TO THE APPLICABLE MANUFACTURER'S OR SUPPLIER'S MSDS FOR:

- MORE PRECAUTIONARY DATA
- APPROVED SAFETY EQUIPMENT
- EMERGENCY MEDICAL AID.

TALK WITH THE LOCAL SAFETY DEPARTMENT OR AUTHORITIES FOR THE PROCEDURES TO DISCARD THIS HAZARDOUS AGENT.

- (5) If existing lens is retained for use, clean inside of lens with solution of mild detergent and water. Wipe clean with lint free cloth.

**NOTE:** The upper anti-collision light is shipped with a serviceable red lens installed. The lens is included with the flash tube and reflector. A serviceable red lens is provided should the existing lens require replacement. If the lens from the serviceable light is not needed, install lens on the unserviceable unit to protect flash tube and reflector during shipping.

- (6) Position upper anti-collision light lens on mounting flange. (Figure 203)

**WARNING:** INTEGRAL FUEL TANKS SEALING COMPOUND (POLYSULFIDE SEALANT B1/2 AND B2) IS AN AGENT THAT IS POISONOUS AND AN IRRITANT. MAKE SURE ALL PERSONS OBEY ALL OF THE PRECAUTIONS WHEN INTEGRAL FUEL TANKS SEALING COMPOUND IS USED.

- GAS/AIR MIXTURES MORE THAN THE LOWER EXPLOSIVE LIMIT (LEL) CAN CAUSE AN EXPLOSION IF HIGH HEAT, SPARKS, OR FLAMES SUPPLY IGNITION.
- USE IN AN AREA OPEN TO THE AIR.
- CLOSE THE CONTAINER WHEN NOT USED.
- DO NOT GET INTEGRAL FUEL TANKS SEALING COMPOUND IN THE EYES, ON THE SKIN, OR ON YOUR CLOTHES.
- DO NOT BREATHE THE GAS.

**WARNING:** REFER TO THE APPLICABLE MANUFACTURER'S OR SUPPLIER'S MSDS FOR:

- MORE PRECAUTIONARY DATA
- APPROVED SAFETY EQUIPMENT
- EMERGENCY MEDICAL AID.

TALK WITH THE LOCAL SAFETY DEPARTMENT OR AUTHORITIES FOR THE PROCEDURES TO DISCARD THIS HAZARDOUS AGENT.

- (7) Apply (PR-1422) sealant to threads of screws and install screws into mounting flange. Wait five minutes and tighten screws to assure proper installation.
- (8) Apply peripheral seal of (PR-1422) sealant, faired at approximately 45° angle around mounting flange.
- (9) Install anti-collision light unit, with nuts removed in Paragraph 4.A.(4). (Figure 203)
- (10) Connect electrical connector to upper anti-collision light unit.
- (11) Install access cover. (Figure 201)

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

**33-42-01**

Page 207  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

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

### UPPER EPC, LIGHTS - RIGHT AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
L	11	B1-99	UPPER ANTI-COLLISION

### 5. Test Upper Anti-Collision Light

- A. Test Upper Anti-Collision Light

- (1) Place ANTICOLLISION LIGHT switch located on overhead switch panel to ON position.

**WARNING:** DO NOT STARE FIXEDLY AT ANTICOLLISION LIGHTS. TEMPORARY IMPAIRMENT OF VISION CAN OCCUR.

- (2) Check that upper anti-collision light comes on and flashes 60 flashes per minute.  
 (3) Place ANTI-COLLISION LIGHT switch to OFF position.  
 (4) Check that upper anti-collision light is off.

### 6. Removal/Installation Lower Anticollision Light

- A. Remove Lower Anticollision Light

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

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

### UPPER EPC, LIGHTS - LEFT AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	11	B1-98	LOWER ANTI-COLLISION

- (2) Remove light and gasket from fuselage.

NOTE: Light unit and lens comes out secured to mounting plate.

**WARNING:** DANGEROUS VOLTAGE. ALLOW 2 MINUTES FOR CAPACITOR DISCHARGE AFTER DEENERGIZING. MAKE CERTAIN THAT DUST COVER IS INSTALLED ON ELECTRICAL RECEPTACLE DURING REMOVAL/INSTALLATION. CONTACT WITH RECEPTACLE PIN CAN CAUSE INJURY.

- (3) Disconnect electrical connector from light.

- B. Install Lower Anticollision Light

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

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

### UPPER EPC, LIGHTS - LEFT AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	11	B1-98	LOWER ANTI-COLLISION

- (2) Use a nonmetallic scraper to remove any existing sealant from fuselage skin and mounting plate.

EFFECTIVITY  
WJE ALL

# 33-42-01

TP-80MM-WJE

Page 208  
Feb 01/2015



## MD-80 AIRCRAFT MAINTENANCE MANUAL

**WARNING:** P-D-680 TYPE 1 SOLVENT IS AN AGENT THAT IS FLAMMABLE AND POISONOUS. MAKE SURE ALL PERSONS OBEY ALL OF THE PRECAUTIONS WHEN P-D-680 TYPE 1 SOLVENT IS USED.

- DO NOT USE IN AREAS WHERE THERE IS HIGH HEAT, SPARKS, OR FLAMES.
- USE IN AN AREA OPEN TO THE AIR.
- CLOSE THE CONTAINER WHEN NOT USED.
- DO NOT GET P-D-680 TYPE 1 SOLVENT IN THE EYES, ON THE SKIN, OR ON YOUR CLOTHES.
- DO NOT BREATHE THE GAS.

**WARNING:** REFER TO THE APPLICABLE MANUFACTURER'S OR SUPPLIER'S MSDS FOR:

- MORE PRECAUTIONARY DATA
- APPROVED SAFETY EQUIPMENT
- EMERGENCY MEDICAL AID.

TALK WITH THE LOCAL SAFETY DEPARTMENT OR AUTHORITIES FOR THE PROCEDURES TO DISCARD THIS HAZARDOUS AGENT.

- (3) Clean surfaces with drycleaning solvent (P-D-680 or equivalent).
- (4) Position gasket on mounting flange.

**NOTE:** On units with cover installed, position gasket between light and cover flanges.

- (5) Connect electrical connector to light.

**WARNING:** INTEGRAL FUEL TANKS SEALING COMPOUND (POLYSULFIDE SEALANT B1/2 AND B2) IS AN AGENT THAT IS POISONOUS AND AN IRRITANT. MAKE SURE ALL PERSONS OBEY ALL OF THE PRECAUTIONS WHEN INTEGRAL FUEL TANKS SEALING COMPOUND IS USED.

- GAS/AIR MIXTURES MORE THAN THE LOWER EXPLOSIVE LIMIT (LEL) CAN CAUSE AN EXPLOSION IF HIGH HEAT, SPARKS, OR FLAMES SUPPLY IGNITION.
- USE IN AN AREA OPEN TO THE AIR.
- CLOSE THE CONTAINER WHEN NOT USED.
- DO NOT GET INTEGRAL FUEL TANKS SEALING COMPOUND IN THE EYES, ON THE SKIN, OR ON YOUR CLOTHES.
- DO NOT BREATHE THE GAS.

**WARNING:** REFER TO THE APPLICABLE MANUFACTURER'S OR SUPPLIER'S MSDS FOR:

- MORE PRECAUTIONARY DATA
- APPROVED SAFETY EQUIPMENT
- EMERGENCY MEDICAL AID.

TALK WITH THE LOCAL SAFETY DEPARTMENT OR AUTHORITIES FOR THE PROCEDURES TO DISCARD THIS HAZARDOUS AGENT.

- (6) Install light and gasket on fuselage and seal attachment screws with (PR-1422) sealant. Wait five minutes and retighten screws to assure proper clamp-up.
- (7) Wipe lens with clean, lintless cloth.

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

# 33-42-01

Page 209  
Feb 01/2015

**MD-80**  
**AIRCRAFT MAINTENANCE MANUAL**

- (8) Apply a peripheral seal of (PR-1422) sealant, faired at approximately a 45 degree angle around mounting plate.

**CAUTION:** TO PREVENT DAMAGE TO LOWER LIGHT, MAKE CERTAIN THAT MOISTURE DRAIN SETSCREW IS REMOVED FROM LENS.

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

**UPPER EPC, LIGHTS - LEFT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	11	B1-98	LOWER ANTI-COLLISION

- (10) Place ANTICOLLISION LIGHT switch in ON position.

**WARNING:** DO NOT STARE FIXEDLY AT ANTICOLLISION LIGHTS. TEMPORARY IMPAIRMENT OF VISION CAN OCCUR.

- (11) Check that lower anticollision light comes on and flashes 60 times per minute.  
(12) Place ANTICOLLISION LIGHT switch in OFF position.  
(13) Check that lights go off.

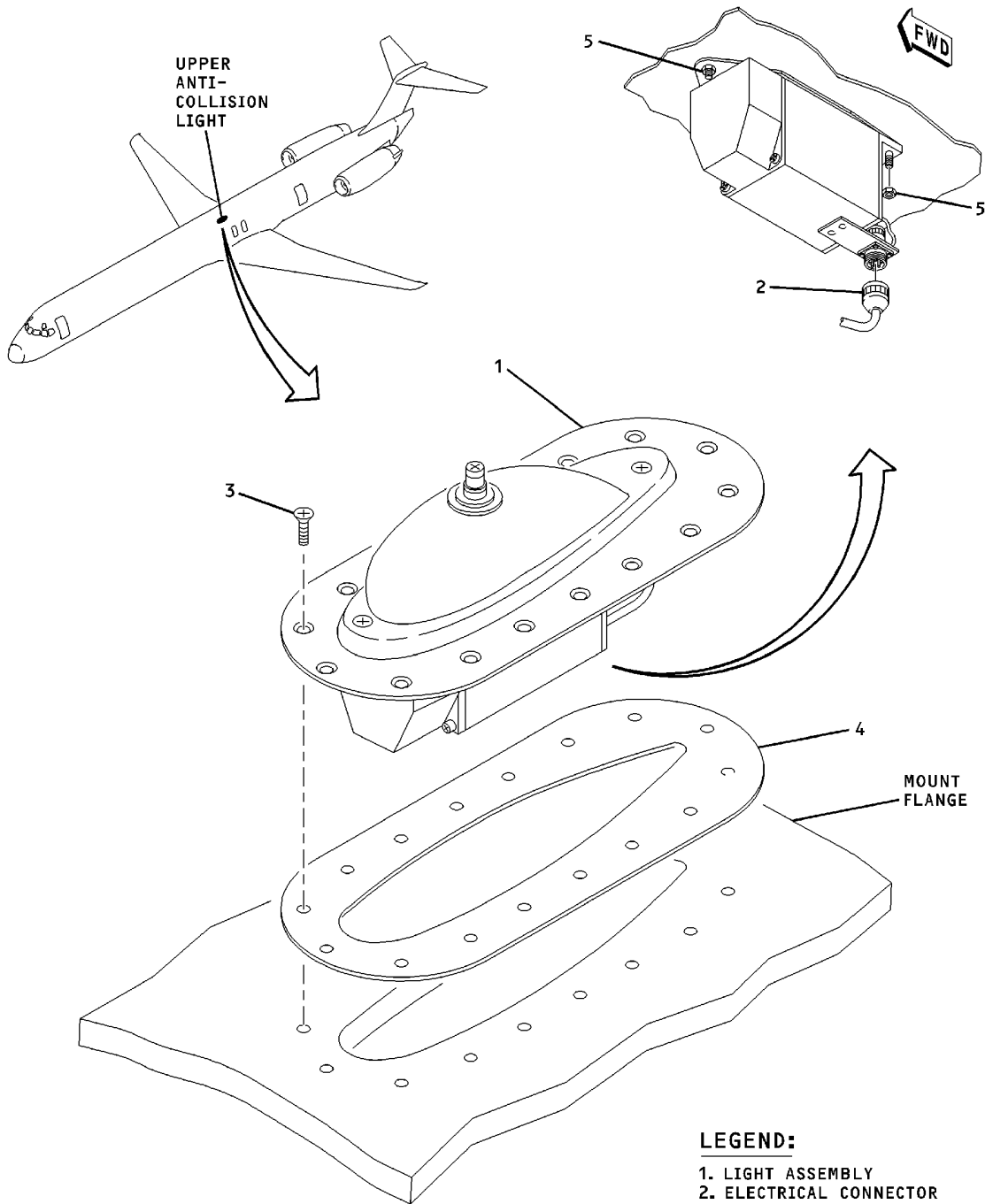
EFFECTIVITY  
WJE ALL

TP-80MM-WJE

**33-42-01**

Page 210  
Feb 01/2015

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



**LEGEND:**

- 1. LIGHT ASSEMBLY
- 2. ELECTRICAL CONNECTOR
- 3. SCREW
- 4. GASKET
- 5. NUT

CAG(IGDS)

BBB2-33-465

**Anticollision Lights - Removal/Installation**  
**Figure 203/33-42-01-990-804**

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

**33-42-01**

Page 211  
Feb 01/2015

**MD-80**  
**AIRCRAFT MAINTENANCE MANUAL**  
**ANTICOLLISION LIGHTS - ADJUSTMENT/TEST**

1. **General**

A. This procedure contains MSG-3 task card data.

**TASK 33-42-01-710-801**

2. **Operational Check of the Anti-Collision Lights**

A. **Operational Check Anti-Collision Lights**

SUBTASK 33-42-01-710-002

**WARNING:** DO NOT LOOK AT THE LIGHTS FOR A LONG TIME. THE LIGHTS CAN CAUSE INJURIES TO YOUR EYES.

- (1) Do an operational check anti-collision lights.
  - (a) Place anti-collision switch on the glareshield to ON.
    - 1) Check upper and lower anti-collision lights flashes.
  - (b) Place anti-collision switch to OFF.

———— **END OF TASK** ————

EFFECTIVITY  
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TP-80MM-WJE

**33-42-01**

Page 501  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### FORWARD AND AFT POSITION LIGHTS SYSTEM - DESCRIPTION AND OPERATION

#### 1. General

- A. The forward and aft position and strobe lights are used to identify direction of travel as well as position of the air-craft at night. The lights are installed in the leading and trailing edge of each wingtip. Position and strobe lights are controlled by a 3-position position/strobe lights switch placarded OFF, POS and BOTH. The strobe lights are limited through a ground control relay to prevent operation on the ground.

#### **WJE ALL PRE MD80-33-112**

- B. The forward position lights, located in the leading edge of each wingtip, consist of two fixed position lights which come on the same time. A colored filter is installed over each of the forward position lights with the left wingtip red; the right wingtip green.

#### **WJE ALL POST MD80-33-112**

- C. Each light assembly has two lamps, only one operates at a time. The Fwd lamp which is closest to the camlock will come on first. The Aft lamp will come on only when the Fwd lamp burns out or is removed.

#### **WJE ALL**

- D. The forward position lights are visible over an area from straight up to straight down and from a line straight forward in the line of flight through an angle outboard and aft of 110 degrees. The position lights have power available from the 115-volt ac ground service bus. A step-down transformer located in each wingtip reduces the voltage to the position lights.
- E. The forward strobe light is a self-contained unit powered from the 115-volt ac bus. It is visible over an area from 30 degrees up and down and from a line straight forward in the line of flight through an angle outboard and aft of 110 degrees. The forward strobe lights on the right and left wingtip flash simultaneously at a rate of 60 flashes per minute. The position and strobe lights are covered by a single clear plastic lens.
- F. The aft lights, located in the trailing edge of each wingtip, consist of a single unit incorporating one strobe light and two fixed position lights. The unit also contains a step-down transformer to reduce the voltage to the position lights. The aft strobe light is visible over an area from 30 degrees up and down and through an angle of 70 degrees on each side of a line straight aft in the line of flight. The aft strobe lights on the right and left wingtips flash simultaneously at the rate of 60 flashes per minute. The fixed position lights are visible over an area from straight up to straight down and through an angle of 70 degrees on each side of a line straight aft in the line of flight. Power is available to the position lights from the ground service bus to the strobe light from the 115-volt ac bus.

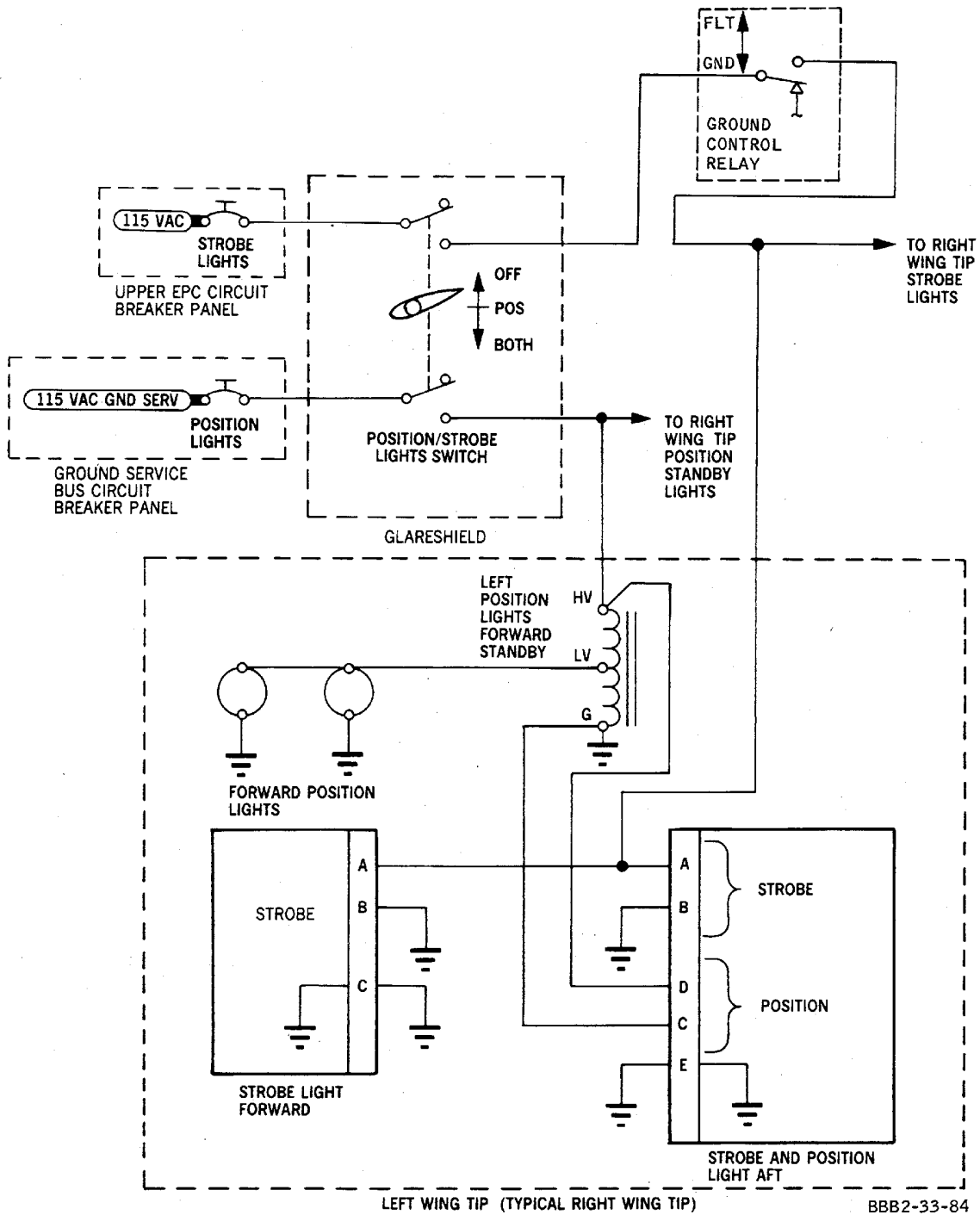
EFFECTIVITY  
WJE ALL

TP-80MM-WJE

**33-43-00**

Page 1  
Feb 01/2015

MD-80  
AIRCRAFT MAINTENANCE MANUAL



Forward and Aft Position Lights -- Simplified Schematic  
Figure 1/33-43-00-990-805

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TP-80MM-WJE

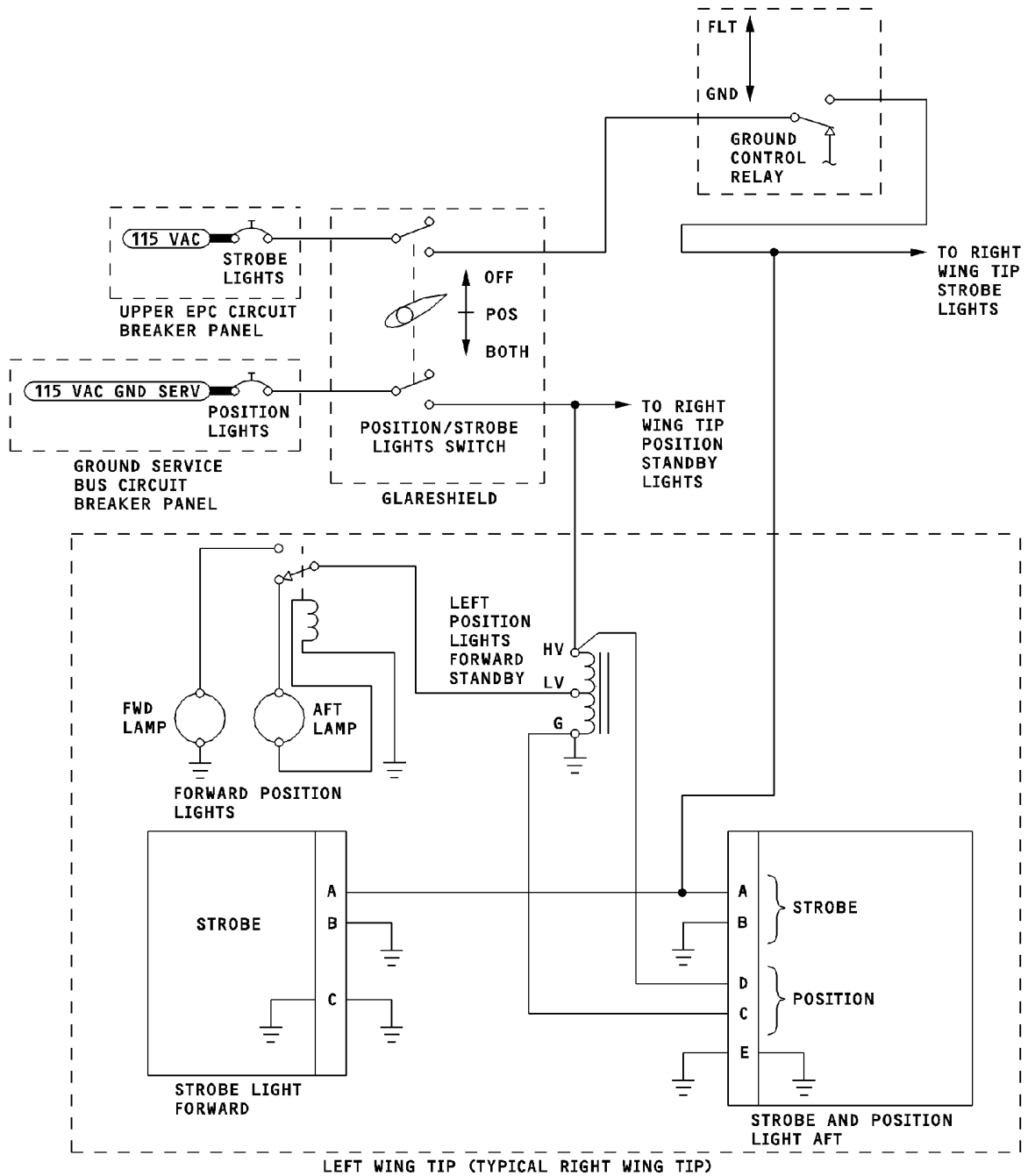
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33-43-00

Page 2  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL



CAG(IGDS)

BBB2-33-524

**Forward and Aft Position Lights -- Simplified Schematic**  
Figure 2/33-43-00-990-804

EFFECTIVITY  
WJE ALL POST MD80-33-112

TP-80MM-WJE

# 33-43-00

Page 3  
Feb 01/2015

# MD-80 AIRCRAFT MAINTENANCE MANUAL

## FORWARD AND AFT POSITION LIGHTS - MAINTENANCE PRACTICES

### 1. General

- A. The removal and installation procedures for the left and the right position and strobe lights are identical. It is not necessary to remove the forward position lights lens to relamp or remove the forward position lights. Forward position lamp replacement is accomplished by removing the access panel on the surface of the wingtip and opening the hinged socket support bracket.
- B. When lamp replacement has been accomplished, actuate the appropriate switch to verify proper operation of the lights.

### 2. Equipment and Materials

NOTE: Equivalent substitutes may be used instead of the following listed items:

NOTE: It is possible that some materials in the Equipment and Materials List cannot be used for some or all of their necessary applications. Before you use the materials, make sure the types, quantities, and applications of the materials necessary are legally permitted in your location. All persons must obey all applicable federal, state, local, and provincial laws and regulations when it is necessary to work with these materials.

**Table 201**

Name and Number	Manufacturer
Sealant, 93-006 DPM 5697	Dow Corning Midland, MI
Catalyst, 93-006-1 DPM 5697	Dow Corning Midland, MI
High Speed Tape, Scotch 425 DPM 2215	3M Co.
Torque wrench 0-50 inch-pounds (0-5 N·m)	
Sealing compound, low adhesion #PR1773, Class B-1/2 & Class B-2 DMS 2410	PRC-DeSoto International Glendale, CA & Mojave, CA
Sealant, Polysulfide, Aluminized #AC-632, B-2 DMS 1819	Advanced Chemistry and Technology Garden Grove, CA

### 3. Removal/Installation Forward Position and Strobe Lights

- A. Remove Forward Position and Strobe Lights. (Figure 201 or Figure 202 or Figure 203 or Figure 204)

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

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

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-437	POSITION LIGHTS

**UPPER EPC, LIGHTS - LEFT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	10	B1-727	STROBE

**EFFECTIVITY**

**WJE 401-411, 415-427, 429, 861-866, 868, 869,  
871-881, 883, 884, 886, 887, 891-893**

TP-80MM-WJE

**33-43-01**

Config 1  
Page 201  
Feb 01/2016



## MD-80 AIRCRAFT MAINTENANCE MANUAL

**WARNING:** DANGEROUS VOLTAGES EXIST IN STROBE LIGHT CIRCUIT. ALLOW 10 MINUTES FOR CAPACITOR DISCHARGE AFTER DEENERGIZING. ELECTRICAL DISCHARGE CAN CAUSE INJURY.

- (2) If removing forward position lamps, perform following:
- (a) Remove lamp access panel from lower surface of wingtip.
  - (b) Remove terminal block cover.
  - (c) Disconnect electrical wiring from terminal block.
  - (d) Remove retainer.
  - (e) Remove lamp and attached wires.

**WARNING:** THIS LAMP COULD SHATTER IF SCRATCHED OR DAMAGED. USE APPROPRIATE PROTECTION WHEN HANDLING, USING, OR DISPOSING OF LAMP.

- (f) Remove lamp holder.
- (g) Remove lamp holder.
- (h) Remove lamp access panel from lower surface of wingtip.

**WARNING:** THIS LAMP COULD SHATTER IF SCRATCHED OR DAMAGED. USE APPROPRIATE PROTECTION WHEN HANDLING, USING, OR DISPOSING OF LAMP.

- (3) Remove lamp from lamp holder.
- (4) If removing forward strobe lamp, perform following:
- (a) Remove forward position light lens from wingtip.  
**NOTE:** Clean lens inside surface if lens is removed for any reason, or when darkening or staining of lens is noted. Clean lens with soap and water only. Do not allow petroleum based solvents to contact lens or crazing and cracking could result.
  - (b) Remove aft end plate from strobe light.  
**NOTE:** It is not necessary to remove end plate if lamp is held by hinged retainer mechanism.
  - (c) Remove lamp.
- (5) If removing forward strobe light unit, perform following:
- (a) Disconnect electrical connector from strobe light through access panel provided.
  - (b) Remove strobe light unit with brackets from wingtip.
  - (c) Remove brackets from strobe light and retain for installation with serviceable strobe light.

- B. Install Forward Position and Strobe Lights. (Figure 201 or Figure 202 or Figure 203 or Figure 204)

EFFECTIVITY

WJE 401-411, 415-427, 429, 861-866, 868, 869,  
871-881, 883, 884, 886, 887, 891-893

TP-80MM-WJE

**33-43-01**

Config 1  
Page 202  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

**WARNING:** AVOID PROLONGED GROUND USE OF NAV LIGHTS TO REDUCE OVERHEATING OF INSIDE LENS SURFACES. HEAT EMBRITTLMENT AND SHRINKAGE OF POLYCARBONATE CAUSES CRAZING AND CRACKING OF LENS DIRECTLY ABOVE LAMP.

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Make sure that these circuit breakers are open and have safety tags:

### LEFT CONSOLE, GROUND SERVICE BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-437	POSITION LIGHTS

### UPPER EPC, LIGHTS - LEFT AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	10	B1-727	STROBE

- (2) If installing forward position lamps, perform following:
- (a) Install lamp holder.
  - (b) Install lamp and attached wires.  
NOTE: Pins in lamp mate with lamp holder for alignment.
  - (c) Install retainer.

**CAUTION:** DURING STROBE LAMP INSTALLATION, AVOID EXCESSIVE SIDE PRESSURE ON TRIGGER BAND CONTACT SPRING. EXCESSIVE PRESSURE CAN CAUSE SPRING DISTORTION AND SUBSEQUENT FAILURE.

- (d) Connect electrical wiring.
- (e) Install terminal block cover.
- (f) Install lamp access panel.
- (g) Remove the safety tags and close these circuit breakers:

### LEFT CONSOLE, GROUND SERVICE BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-437	POSITION LIGHTS

### UPPER EPC, LIGHTS - LEFT AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	10	B1-727	STROBE

- (h) Place appropriate switch in POS position to check proper operation of lights.

**WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893 POST MD80-33-112**

- (3) If installing forward position lamps, perform as follows:
- (a) Install lamp in lamp holder.
  - (b) Install lamp access panel.

#### EFFECTIVITY

WJE 401-411, 415-427, 429, 861-866, 868, 869,  
871-881, 883, 884, 886, 887, 891-893

TP-80MM-WJE

# 33-43-01

Config 1  
Page 203  
Feb 01/2016

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**

**WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893 POST MD80-33-112  
(Continued)**

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

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-437	POSITION LIGHTS

**UPPER EPC, LIGHTS - LEFT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	10	B1-727	STROBE

- (d) Place appropriate switch in POS position to check proper operation of lights.

NOTE: Each light assembly has two lamps, only one is in operation at a time. The Fwd lamp which is closest to the camlock will come on first. The Aft lamp will come on only when the Fwd lamp burns out or is removed.

**WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893**

- (4) If installing forward strobe lamp, perform following:
- (a) Install lamp in strobe light.
  - (b) Clean lamp surface of fingerprints and contaminants.
  - (c) Install aft end plate on strobe light, if previously removed.

**WARNING:** NORMAL ELECTRICAL POWER SUPPLY FOR VARIOUS SYSTEMS IS INTERRUPTED WHEN GROUND SENSING CIRCUIT BREAKERS ARE OPENED. MAKE CERTAIN THAT SWITCHES AND CONTROLS OF AFFECTED SYSTEMS ARE IN CORRECT POSITIONS TO PREVENT INADVERTENT OPERATION OR SHUTDOWN OF EQUIPMENT.

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

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-437	POSITION LIGHTS

**UPPER EPC, LIGHTS - LEFT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	10	B1-727	STROBE

**EFFECTIVITY**

**WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893**

TP-80MM-WJE

**33-43-01**

Config 1  
Page 204  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

**WARNING:** NORMAL ELECTRICAL POWER TO VARIOUS SYSTEMS MAY BE INTERRUPTED WHEN GROUND CONTROL RELAY CIRCUIT BREAKERS ARE OPEN. MAKE CERTAIN THAT SWITCHES AND CONTROLS OF AFFECTED SYSTEMS ARE IN CORRECT POSITIONS TO PREVENT INADVERTENT OPERATION OF EQUIPMENT.

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

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

### UPPER EPC, L AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 417, 419, 421, 423, 865, 869, 871, 872</b>			
K	30	B1-23	LEFT GROUND CONTROL RELAY
<b>WJE 401-411, 415, 416, 418, 420, 422, 424-427, 429, 861-864, 866, 868, 873-881, 883, 884, 886, 887, 891-893</b>			
K	33	B1-23	LEFT GROUND CONTROL RELAY

**WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893**

**WARNING:** DO NOT STARE AT STROBE LIGHTS WHEN FLASHING. TEMPORARY VISION IMPAIRMENT MAY RESULT.

- (a) Place appropriate switch in BOTH position to check proper operation lights.  
 (b) Remove the safety tags and close these circuit breakers:

### UPPER EPC, L AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 417, 419, 421, 423, 865, 869, 871, 872</b>			
K	30	B1-23	LEFT GROUND CONTROL RELAY
<b>WJE 401-411, 415, 416, 418, 420, 422, 424-427, 429, 861-864, 866, 868, 873-881, 883, 884, 886, 887, 891-893</b>			
K	33	B1-23	LEFT GROUND CONTROL RELAY

**WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893**

If installing forward strobe light unit, perform following:

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

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

### LEFT CONSOLE, GROUND SERVICE BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-437	POSITION LIGHTS

### UPPER EPC, LIGHTS - LEFT AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	10	B1-727	STROBE

- (d) Install brackets on strobe light.  
 (e) Install strobe light on wingtip.

#### EFFECTIVITY

**WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893**

TP-80MM-WJE

# 33-43-01

Config 1  
Page 205  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

**CAUTION:** SEQUENCE OF INSTALLATION IS MANDATORY TO AVOID PRELOADING AND SUBSEQUENT CRACKING OF LENS.

**CAUTION:** PERIODIC RETORQUING OF LENS ATTACHMENTS WITH WORN CUSHIONED WASHERS MAY LEAD TO CRACKING AT ATTACHMENT AREA.

**CAUTION:** DO NOT ALLOW PETROLEUM SOLVENTS TO CONTACT LENS. CRAZING OR CRACKING MAY RESULT.

- (f) Connect electrical connector to strobe light through access panel.

NOTE: Cracked lens repair procedures are contained in the Approved Repairs section.

- (g) Install wing tip lens as follows:

**WJE 875-879; WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-874, 880, 881, 883, 884, 886, 887, 891-893  
POST DC9-57-203**

NOTE: See paragraph 5. to replace wing tip lens. The lenses will not crack.

**WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893**

- (h) Check lens for cleanliness and wash with mild detergent and dry with lint free cloth.

**WJE 401-404**

- (i) Check lens attach hole for elongation, cracking, or retainer disbonding.

- (j) Check lens attachment area for elongation, cracking, or disbonding.

**WARNING:** SILICONE SEALANT IS AN AGENT THAT IS A LOW HAZARD. MAKE SURE ALL PERSONS OBEY THE PRECAUTIONS WHEN SILICONE SEALANT IS USED.

- USE IN AN AREA OPEN TO THE AIR.
- CLOSE THE CONTAINER WHEN NOT USED.

**WARNING:** REFER TO THE APPLICABLE MANUFACTURER'S OR SUPPLIERS MSDS FOR:

- MORE PRECAUTIONARY DATA.
- APPROVED SAFETY EQUIPMENT.
- EMERGENCY MEDICAL AID.
- TALK WITH THE LOCAL SAFETY DEPARTMENT OR AUTHORITIES FOR THE PROCEDURES TO DISCARD THIS HAZARDOUS AGENT.

- (k) Apply bead of silicone 93-006 sealant to perimeter of wing attachment flange at base of flange.

**WARNING:** DO NOT OVERTORQUE SCREWS. IF SCREWS BECOME LOOSE, REMOVE AND INSPECT CONDITION OF HOLES AND NUTPLATES. CLEAR ANY OBSTRUCTIONS. REINSTALL SCREWS AND TORQUE TO PROPER VALUE.

- (l) Install lens and sequence wing tip lens attachments by tightening diagonally opposing to and bottom screws to avoid preloading. Recommended torque values are 12 to 15 inch-pounds (1.40 to 1.70 N.m)

NOTE: Some older configurations of wing tip structure have fourteen nutplates for lens installation. If fourteen nutplates are present, the forward and aft nutplates (two each, top and bottom) are not required to be sued with lenses which have only ten holes.

EFFECTIVITY

**WJE 401-411, 415-427, 429, 861-866, 868, 869,  
871-881, 883, 884, 886, 887, 891-893**

TP-80MM-WJE

**33-43-01**

Config 1  
Page 206  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

**WJE 401-404 (Continued)**

**WARNING:** SILICONE SEALANT IS AN AGENT THAT IS A LOW HAZARD. MAKE SURE ALL PERSONS OBEY THE PRECAUTIONS WHEN SILICONE SEALANT IS USED.

- USE IN AN AREA OPEN TO THE AIR.
- CLOSE THE CONTAINER WHEN NOT USED.

**WARNING:** REFER TO THE APPLICABLE MANUFACTURER'S OR SUPPLIERS MSDS FOR:

- MORE PRECAUTIONARY DATA.
- APPROVED SAFETY EQUIPMENT.
- EMERGENCY MEDICAL AID.
- TALK WITH THE LOCAL SAFETY DEPARTMENT OR AUTHORITIES FOR THE PROCEDURES TO DISCARD THIS HAZARDOUS AGENT.

- (m) Apply fillet silicone 93-006 sealant to attachment area. Wipe edge of lens to remove excess sealant.
- (n) Allow sealant to cure. If inclement weather or dispatch is required prior to cure, apply speedtape to attachment area and around edge of lens. Tape should not extend beyond 1.00 inch (25.4mm) of lens edge.

**WJE 405-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893**

**WARNING:** DO NOT OVERTORQUE SCREWS. IF SCREWS BECOME LOOSE, REMOVE AND INSPECT CONDITION OF HOLES AND NUTPLATES. CLEAR ANY OBSTRUCTIONS. REINSTALL SCREWS AND TORQUE TO PROPER VALUE.

- (o) Sequence wing tip lens attachments by tightening diagonally opposing top and bottom screws to avoid preloading. Recommended torque values are 12 to 15 inch-pounds (1.40 to 1.70 N.m).

**NOTE:** Some older configuration of wing tip structure have fourteen nutplates for lens installation. If fourteen nutplates are present, the forward and aft nutplates (two each, top and bottom) are not required to be used with lenses which have only ten hole.

**WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893**

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

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-437	POSITION LIGHTS

**UPPER EPC, LIGHTS - LEFT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	10	B1-727	STROBE

**EFFECTIVITY**

**WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893**

TP-80MM-WJE

**33-43-01**

Config 1  
Page 207  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

**WARNING:** NORMAL ELECTRICAL POWER SUPPLY FOR VARIOUS SYSTEMS IS INTERRUPTED WHEN GROUND SENSING CIRCUIT BREAKERS ARE OPENED. MAKE CERTAIN THAT SWITCHES AND CONTROLS OF AFFECTED SYSTEMS ARE IN CORRECT POSITIONS TO PREVENT INADVERTENT OPERATION OR SHUTDOWN OF EQUIPMENT.

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

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

**UPPER EPC, L AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
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WJE 417, 419, 421, 423, 865, 869, 871, 872

K	30	B1-23	LEFT GROUND CONTROL RELAY
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WJE 401-411, 415, 416, 418, 420, 422, 424-427, 429, 861-864, 866, 868, 873-881, 883, 884, 886, 887, 891-893

K	33	B1-23	LEFT GROUND CONTROL RELAY
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WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893

**WARNING:** DO NOT STARE AT STROBE LIGHTS WHEN FLASHING. TEMPORARY VISION IMPAIRMENT MAY RESULT.

- (r) Place appropriate switch on BOTH position to check proper operation of lights.

WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893 POST MD80-33-112

**NOTE:** Each light assembly has two lamps, only one is in operation at a time. The Fwd lamp which is closest to the camlock will come on first. The Aft lamp will come on only when the Fwd lamp burns to or is removed.

WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893

Remove the safety tags and close these circuit breakers:

**UPPER EPC, L AC BUS**

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

WJE 417, 419, 421, 423, 865, 869, 871, 872

K	30	B1-23	LEFT GROUND CONTROL RELAY
---	----	-------	---------------------------

WJE 401-411, 415, 416, 418, 420, 422, 424-427, 429, 861-864, 866, 868, 873-881, 883, 884, 886, 887, 891-893

K	33	B1-23	LEFT GROUND CONTROL RELAY
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WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893

- (6) Removal/Installation Aft Position and Strobe Lights:

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

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

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
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		B1-437	POSITION LIGHTS
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**EFFECTIVITY**

WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893

TP-80MM-WJE

**33-43-01**

Config 1

Page 208

Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### UPPER EPC, LIGHTS - LEFT AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	10	B1-727	STROBE

**WARNING:** DANGEROUS VOLTAGES EXIST IN STROBE LIGHT CIRCUIT. ALLOW 10 MINUTES FOR CAPACITOR DISCHARGE AFTER DEENERGIZING. ELECTRICAL DISCHARGE CAN CAUSE INJURY.

- (b) If removing aft position lamps, perform following:
  - (c) If removing aft position lamps (aircraft 116-150, 157, 160-290), perform following:
  - (d) Remove lens attaching screws and remove lens from light
  - (e) If removing aft strobe lamp, perform following:
    - 1) Remove lens attaching screws and remove lens from light.
    - 2) Remove inboard end plate of strobe light.
 

NOTE: It is not necessary to remove end plate if lamp is held by hinged retainer mechanism.
    - 3) Remove strobe lamp.
  - (f) If removing aft strobe light unit, perform following:
    - 1) Disconnect electrical connector from light through access panel provided.
    - 2) Remove strobe light unit from wingtip.
- (7) Install Aft Position and Strobe Lights.

**WARNING:** AVOID PROLONGED GROUND USE OF NAV LIGHTS TO REDUCE OVERHEATING OF INSIDE LENS SURFACES. HEAT EMBRITTLEMENT AND SHRINKAGE OF POLYCARBONATE CAUSES CRAZING AND CRACKING OF LENS DIRECTLY ABOVE LAMP.

- (a) Make sure that these circuit breakers are open and have safety tags:

### LEFT CONSOLE, GROUND SERVICE BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-437	POSITION LIGHTS

### UPPER EPC, LIGHTS - LEFT AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	10	B1-727	STROBE

- (b) If installing aft position lamps, perform following:
  - 1) Install position lamps in lamp bracket.
  - 2) Clean lamp surface of fingerprints and contaminants.

**WJE 401-404, 415-427, 429, 861-866, 868, 869, 871, 872, 891**

- 3) Tighten lamp mounting screw.

**WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893**

- 4) Connect terminal lugs to terminals, and tighten terminal screws.

**EFFECTIVITY**

**WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893**

TP-80MM-WJE

**33-43-01**

Config 1  
Page 209  
Feb 01/2016



**MD-80  
AIRCRAFT MAINTENANCE MANUAL**

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

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-437	POSITION LIGHTS

**UPPER EPC, LIGHTS - LEFT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	10	B1-727	STROBE

- (d) Place appropriate switch in POS position to check proper operation of lights.

**WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893 POST MD80-33-112**

NOTE: Each light assembly has two lamps, only one is in operation at a time. The Fwd lamp which is closest to the camlock will come on first. The Aft lamp will come on only when the Fwd lamp burns out or is removed.

**WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893**

- (e) Place appropriate switch in OFF position. Light should go off.
- (8) If installing aft strobe lamp, perform following:
- (a) Make sure that these circuit breakers are open and have safety tags:

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-437	POSITION LIGHTS

**UPPER EPC, LIGHTS - LEFT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	10	B1-727	STROBE

CAUTION: DURING STROBE LAMP INSTALLATION, AVOID EXCESSIVE SIDE PRESSURE ON TRIGGER BAND CONTACT SPRING. EXCESSIVE PRESSURE CAN CAUSE SPRING DISTORTION AND SUBSEQUENT FAILURE.

- (b) Install lamp in strobe light.
- (c) Clean lamp surface of fingerprints and contaminants.
- (d) Install lens light unit.
- (e) Remove the safety tags and close these circuit breakers:

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-437	POSITION LIGHTS

**UPPER EPC, LIGHTS - LEFT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	10	B1-727	STROBE

**EFFECTIVITY**

**WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893**

TP-80MM-WJE

**33-43-01**

Config 1  
Page 210  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

**WARNING:** NORMAL ELECTRICAL POWER SUPPLY FOR VARIOUS SYSTEMS IS INTERRUPTED WHEN GROUND SENSING CIRCUIT BREAKERS ARE OPENED. MAKE CERTAIN THAT SWITCHES AND CONTROLS OF AFFECTED SYSTEMS ARE IN CORRECT POSITIONS TO PREVENT INADVERTENT OPERATION OR SHUTDOWN OF EQUIPMENT.

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

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

### UPPER EPC, L AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
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WJE 417, 419, 421, 423, 865, 869, 871, 872

K	30	B1-23	LEFT GROUND CONTROL RELAY
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WJE 401-411, 415, 416, 418, 420, 422, 424-427, 429, 861-864, 866, 868, 873-881, 883, 884, 886, 887, 891-893

K	33	B1-23	LEFT GROUND CONTROL RELAY
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WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893

**WARNING:** DO NOT STARE AT STROBE LIGHTS WHEN FLASHING. TEMPORARY VISION IMPAIRMENT MAY RESULT.

- (g) Place appropriate switch in BOTH position to check proper operation of lights.

WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893 POST MD80-33-112

**NOTE:** Each light assembly has two lamps, only one is in operation at a time. The Fwd lamp which is closest to the camlock will come on first. The Aft lamp will come on only when the Fwd lamp burns out or is removed.

WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893

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

### UPPER EPC, L AC BUS

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

WJE 417, 419, 421, 423, 865, 869, 871, 872

K	30	B1-23	LEFT GROUND CONTROL RELAY
---	----	-------	---------------------------

WJE 401-411, 415, 416, 418, 420, 422, 424-427, 429, 861-864, 866, 868, 873-881, 883, 884, 886, 887, 891-893

K	33	B1-23	LEFT GROUND CONTROL RELAY
---	----	-------	---------------------------

WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893

- (9) If installing aft strobe light unit, perform following:

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (a) Make sure that these circuit breakers are open and have safety tags:

### LEFT CONSOLE, GROUND SERVICE BUS

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

		B1-437	POSITION LIGHTS
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#### EFFECTIVITY

WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893
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TP-80MM-WJE

# 33-43-01

Config 1

Page 211

Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### UPPER EPC, LIGHTS - LEFT AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	10	B1-727	STROBE

- (b) Install light unit in trailing edge of wing and secure with attaching screws.

**WARNING:** USE THE HAZARDOUS MATERIAL WARNINGS GIVEN BELOW FOR THE STEPS THAT FOLLOW.

THE HAZARDOUS MATERIAL WARNINGS ARE LISTED AFTER THE INTRODUCTION SECTION IN THE FRONT OF THE AMM.

Hazardous Material Warnings

HAZMAT 1223, SEALANT/POLYSULFIDE ALUMINIZED (DMS QPL 1819)

HAZMAT 1155, SEALANT/LOW ADHESION  
(DMS QPL 2410; supersedes DPM 256-1)

HAZMAT 1000, REFER TO MSDS

- 1) After the installation of the aft position light housing, the voids between the light housing and wind tip structure shall be filled with sealing compound (DMS 2410). The butt joint shall be sealed with polysulfide sealant (DMS 1819) and the sealant shall be flushed off to the surrounding structure.

- (c) Connect electrical connector to light through access panel.

Remove the safety tags and close these circuit breakers:

### LEFT CONSOLE, GROUND SERVICE BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-437	POSITION LIGHTS

### UPPER EPC, LIGHTS - LEFT AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	10	B1-727	STROBE

**WARNING:** NORMAL ELECTRICAL POWER SUPPLY FOR VARIOUS SYSTEMS IS INTERRUPTED WHEN GROUND SENSING CIRCUIT BREAKERS ARE OPENED. MAKE CERTAIN THAT SWITCHES AND CONTROLS OF AFFECTED SYSTEMS ARE IN CORRECT POSITIONS TO PREVENT INADVERTENT OPERATION OR SHUTDOWN OF EQUIPMENT.

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

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

### UPPER EPC, L AC BUS

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

WJE 417, 419, 421, 423, 865, 869, 871, 872

K	30	B1-23	LEFT GROUND CONTROL RELAY
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WJE 401-411, 415, 416, 418, 420, 422, 424-427, 429, 861-864, 866, 868, 873-881, 883, 884, 886, 887, 891-893

K	33	B1-23	LEFT GROUND CONTROL RELAY
---	----	-------	---------------------------

#### EFFECTIVITY

WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893

TP-80MM-WJE

# 33-43-01

Config 1

Page 212

Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

**WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893**

**WARNING:** DO NOT STARE AT STROBE LIGHTS WHEN FLASHING. TEMPORARY VISION IMPAIRMENT MAY RESULT.

- 1) Place appropriate switch in BOTH position to check proper operation of lights.

**WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893 POST MD80-33-112**

**NOTE:** Each light assembly has two lamps, only one is in operation at a time. The Fwd lamp which is closest to the camlock will come on first. The Aft lamp will come on only when the Fwd lamp burns out or is removed.

**WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893**

Remove the safety tags and close these circuit breakers:

### UPPER EPC, L AC BUS

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

**WJE 417, 419, 421, 423, 865, 869, 871, 872**

K	30	B1-23	LEFT GROUND CONTROL RELAY
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**WJE 401-411, 415, 416, 418, 420, 422, 424-427, 429, 861-864, 866, 868, 873-881, 883, 884, 886, 887, 891-893**

K	33	B1-23	LEFT GROUND CONTROL RELAY
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**WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893**

**WARNING:** SILICONE SEALANT IS AN AGENT THAT IS A LOW HAZARD. MAKE SURE ALL PERSONS OBEY THE PRECAUTIONS WHEN SILICONE SEALANT IS USED.

- USE IN AN AREA OPEN TO THE AIR.
- CLOSE THE CONTAINER WHEN NOT USED.

**WARNING:** REFER TO THE APPLICABLE MANUFACTURER'S OR SUPPLIERS MSDS FOR:

- MORE PRECAUTIONARY DATA.
- APPROVED SAFETY EQUIPMENT.
- EMERGENCY MEDICAL AID.
- TALK WITH THE LOCAL SAFETY DEPARTMENT OR AUTHORITIES FOR THE PROCEDURES TO DISCARD THIS HAZARDOUS AGENT.

- 2) Apply fillet of silicone 93-006 sealant around trailing edge where it meets lens. Allow 24 hours sealant cure time.
- 3) Apply fillet of silicone 93-006 sealant around Electrical Disconnect Access Panel. Allow 24 hours sealant cure time.

**NOTE:** If aircraft is to fly within 24 hours, cover the sealant with High Speed tape to prevent erosion of sealant. Tape may be removed after 24 hours.

**WJE 875-879; WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-874, 880, 881, 883, 884, 886, 887, 891-893 POST DC9-57-203**

- (10) Wing Tip Lens Installation

**NOTE:** Replace wing tip lens with P/N 5965110-1 for left side and P/N 5965110-2 for right side. Repair node seals and doublers as required.

- (a) Install wing tip lens as follows:

#### EFFECTIVITY

**WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893**

TP-80MM-WJE

# 33-43-01

Config 1

Page 213

Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

WJE 875-879; WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-874, 880, 881, 883, 884, 886, 887, 891-893  
POST DC9-57-203 (Continued)

- 1) Check lens for cleanliness and wash with mild detergent and dry with lint free cloth.
- 2) Check lens attach holes for elongation, cracking, or retainer disbonding.
- 3) Check lens attachment area for elongation, cracking, or disbonding.

**WARNING:** SILICONE SEALANT IS AN AGENT THAT IS A LOW HAZARD. MAKE SURE ALL PERSONS OBEY THE PRECAUTIONS WHEN SILICONE SEALANT IS USED.

- USE IN AN AREA OPEN TO THE AIR.
- CLOSE THE CONTAINER WHEN NOT USED.

**WARNING:** REFER TO THE APPLICABLE MANUFACTURER'S OR SUPPLIERS MSDS FOR:

- MORE PRECAUTIONARY DATA.
- APPROVED SAFETY EQUIPMENT.
- EMERGENCY MEDICAL AID.
- TALK WITH THE LOCAL SAFETY DEPARTMENT OR AUTHORITIES FOR THE PROCEDURES TO DISCARD THIS HAZARDOUS AGENT.

- 4) Apply bead of silicone 93-006 sealant to perimeter of wing attachment flang at base of flange.

**WARNING:** DO NOT OVERTORQUE SCREWS. IF SCREWS BECOME LOOSE, REMOVE AND INSPECT CONDITION OF HOLES AND NUTPLATES. CLEAR ANY OBSTRUCTIONS. REINSTALL SCREWS AND TORQUE TO PROPER VALUE.

- 5) Install lens and sequence wing tip lens attachments by tightening diagonally opposing top and bottom screws to avoid preloading. Recommended torque values are 12 to 15 inch-pounds (1.40 to 1.70 N.m)

**NOTE:** Some older configurations of wing tip structure have fourteen nutplates for lens installation. If fourteen nutplates are present, the forward and aft nutplates (two each, top and bottom) are not required to be used with lenses which have only ten holes.

- 6) Apply fillet silicone 93-006 sealant to attachment area. Wipe edge of lens to remove excess sealant.
- 7) Allow sealant to cure. If inclement weather or dispatch is required prior to cure, apply speedtape to attachment area and around edge of lens. Tape should not extend beyond 1.00 inch (25.4mm) of lens edge.

Remove the safety tags and close these circuit breakers:

### LEFT CONSOLE, GROUND SERVICE BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-437	POSITION LIGHTS

### UPPER EPC, LIGHTS - LEFT AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	10	B1-727	STROBE

#### EFFECTIVITY

WJE 401-411, 415-427, 429, 861-866, 868, 869,  
871-881, 883, 884, 886, 887, 891-893

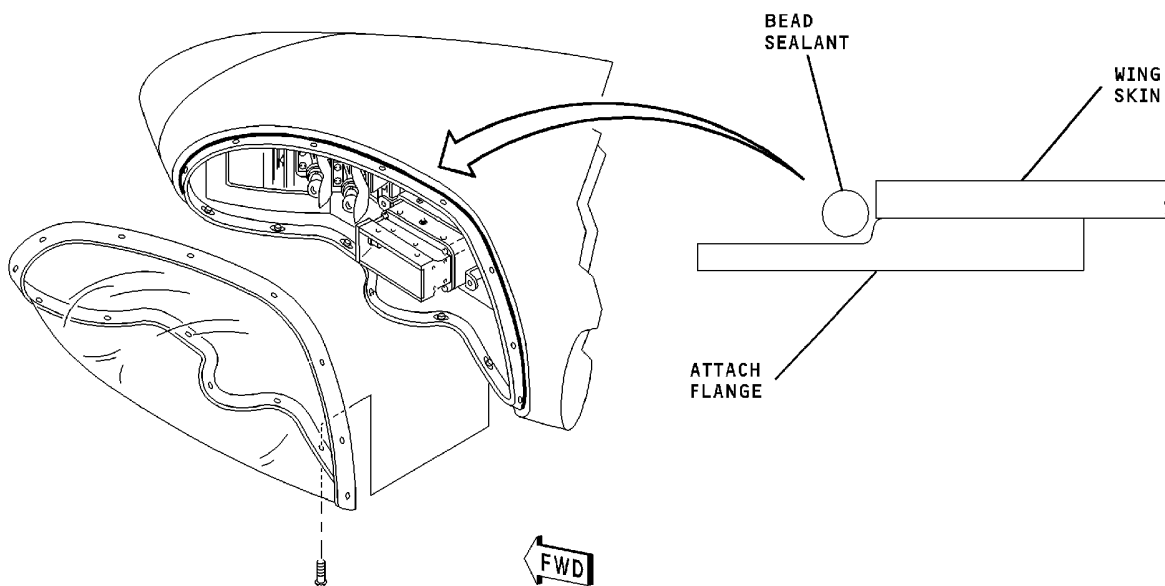
TP-80MM-WJE

# 33-43-01

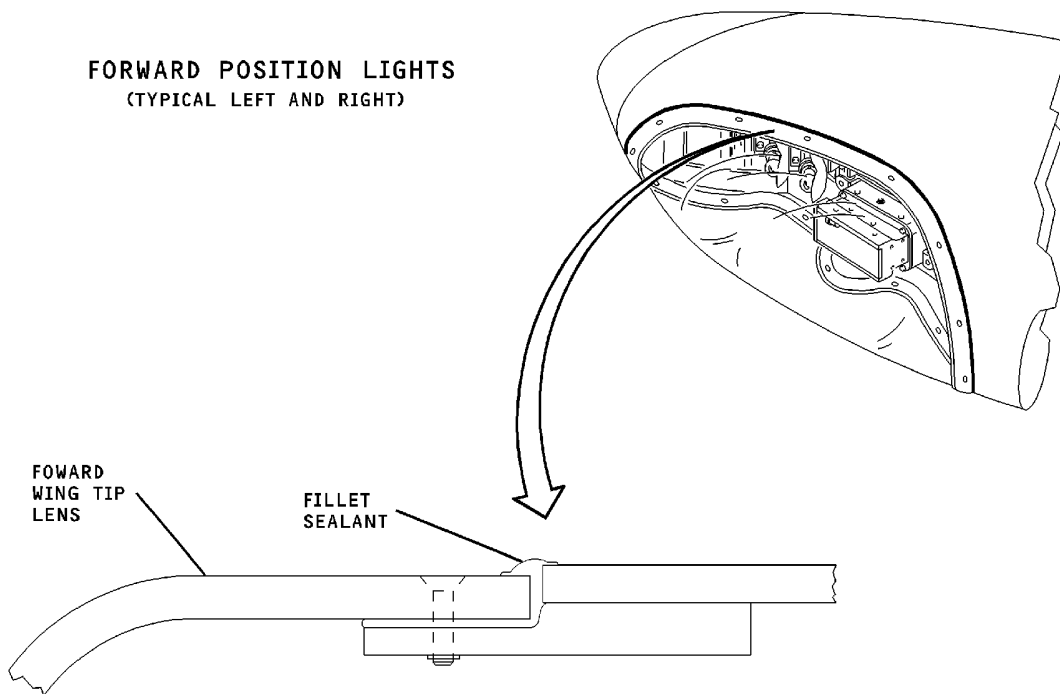
Config 1  
Page 214  
Feb 01/2016

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**

WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893



**FORWARD POSITION LIGHTS  
(TYPICAL LEFT AND RIGHT)**



CAG(IGDS)

BBB2-33-413

**Forward Position Lights - Removal/Installation  
Figure 201/33-43-01-990-818**

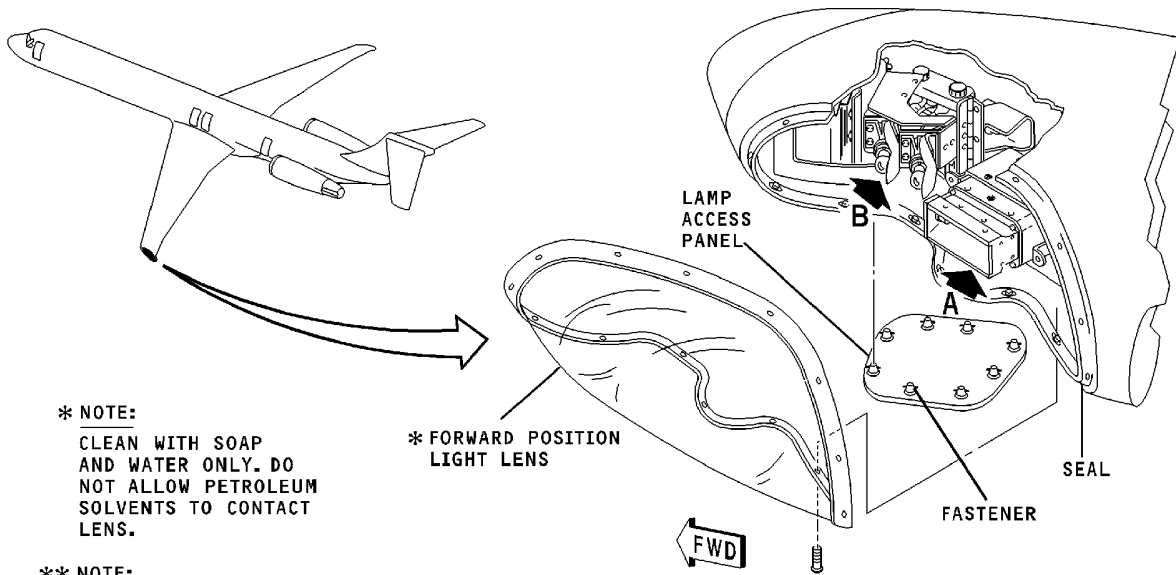
**EFFECTIVITY**  
WJE 401-411, 415-427, 429, 861-866, 868, 869,  
871-881, 883, 884, 886, 887, 891-893

TP-80MM-WJE

**33-43-01**

Config 1  
Page 215  
Feb 01/2016

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**

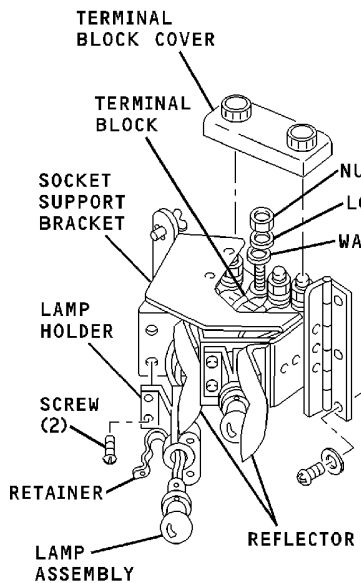


**\* NOTE:**  
CLEAN WITH SOAP AND WATER ONLY. DO NOT ALLOW PETROLEUM SOLVENTS TO CONTACT LENS.

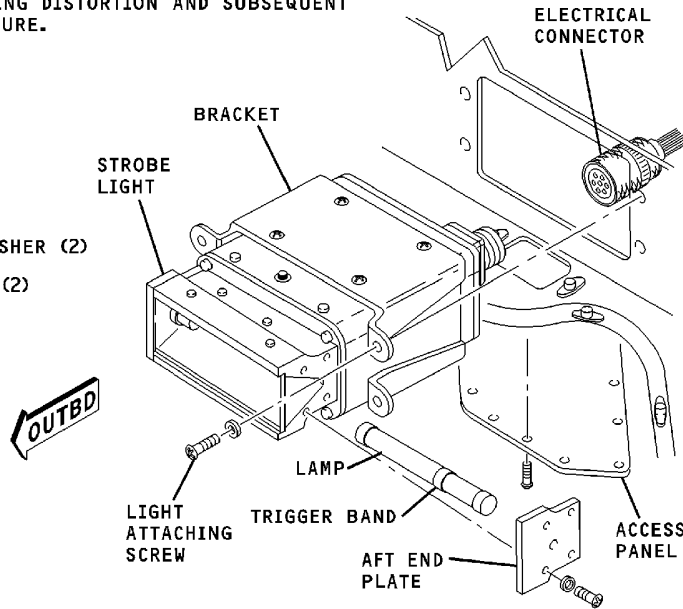
**\*\* NOTE:**  
SEE FIGURE 201 SHEET 2 FOR PRE AND POST SERVICE BULLTIN 33-112.

**CAUTION:**  
DURING STROBE LAMP INSTALLATION, AVOID EXCESSIVE SIDE PRESSURE ON THE TRIGGER BAND CONTACT SPRING. EXCESSIVE PRESSURE MAY CAUSE SPRING DISTORTION AND SUBSEQUENT FAILURE.

**FORWARD POSITION LIGHTS  
(TYPICAL LEFT AND RIGHT)**



**\*\* VIEW B**



**VIEW A  
STROBE LIGHT**

CAG(IGDS)

BBB2-33-360A

**Forward Position Lights -- Removal/Installation  
Figure 202/33-43-01-990-813 (Sheet 1 of 2)**

**EFFECTIVITY**

WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893

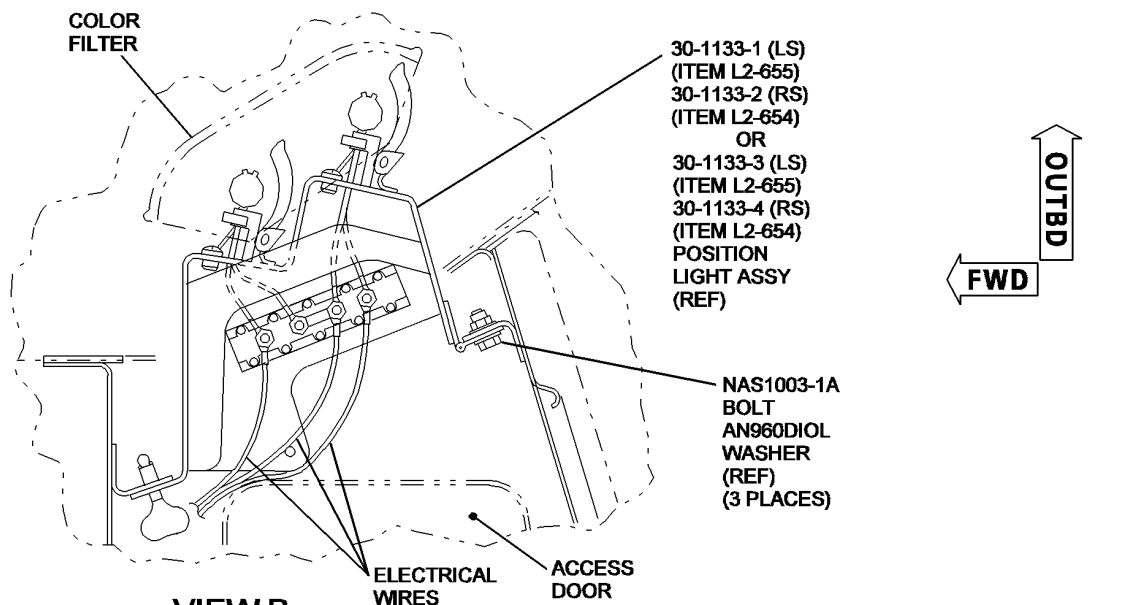
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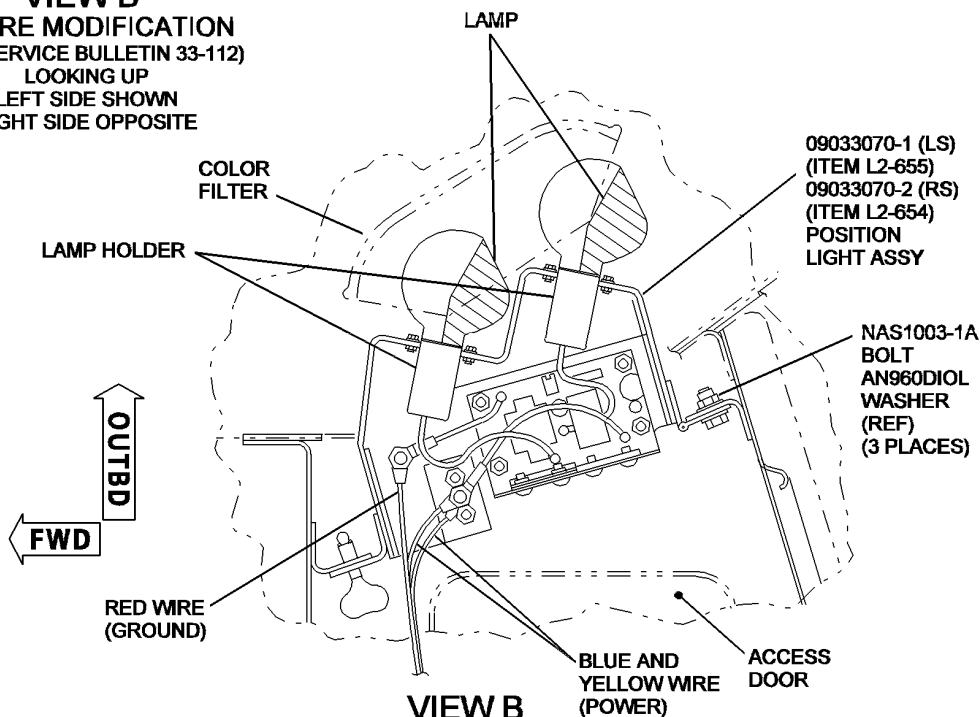
Config 1  
Page 216  
Feb 01/2016



**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



**VIEW B  
BEFORE MODIFICATION**  
(PRE SERVICE BULLETIN 33-112)  
LOOKING UP  
LEFT SIDE SHOWN  
RIGHT SIDE OPPOSITE



**VIEW B  
AFTER MODIFICATION**  
(POST SERVICE BULLETIN 33-112)  
LOOKING UP  
LEFT SIDE SHOWN  
RIGHT SIDE OPPOSITE

BBB2-33-490B  
S0006542796V2

**Forward Position Lights -- Removal/Installation**  
Figure 202/33-43-01-990-813 (Sheet 2 of 2)

**EFFECTIVITY**

WJE 401-411, 415-427, 429, 861-866, 868, 869,  
871-881, 883, 884, 886, 887, 891-893

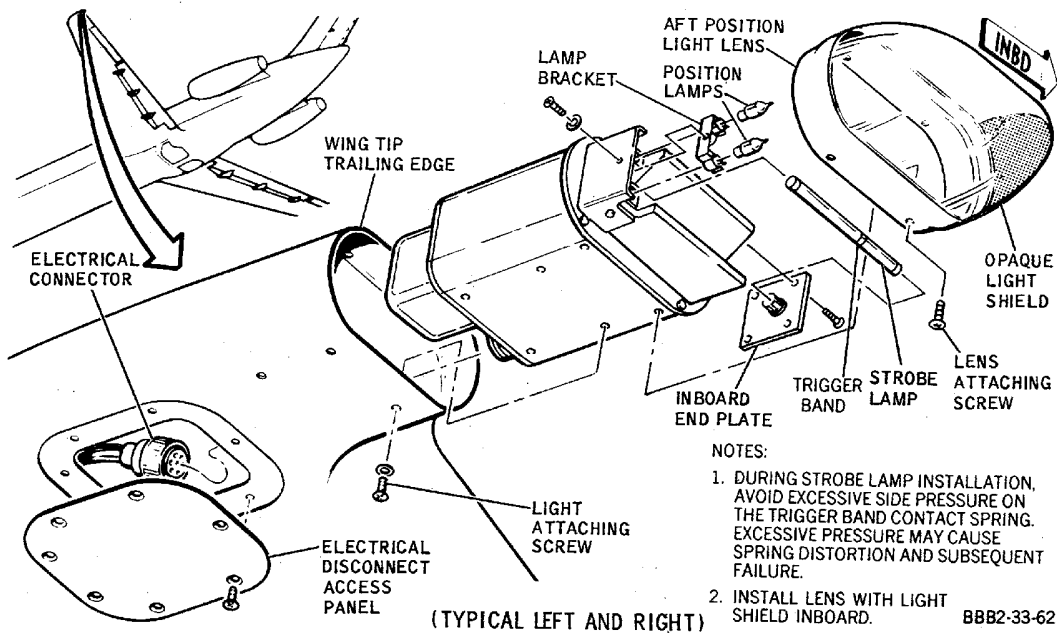
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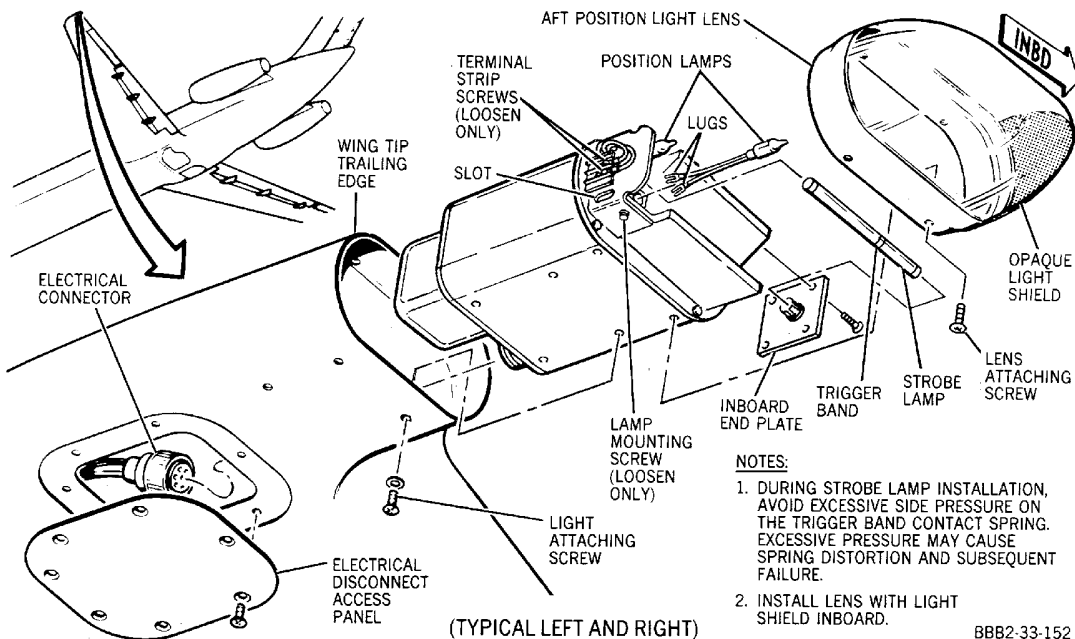
Config 1  
Page 217  
Feb 01/2016



**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



**Aft Position Lights -- Removal/Installation  
Figure 203/33-43-01-990-824**



**Aft Position Lights -- Removal/Installation  
Figure 204/33-43-01-990-825**

**EFFECTIVITY**

WJE 401-411, 415-427, 429, 861-866, 868, 869,  
871-881, 883, 884, 886, 887, 891-893

TP-80MM-WJE

**33-43-01**

Config 1  
Page 218  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### 4. Removal/Installation Wingtip Lens Seal

- A. It is permissible to replace 12 inch minimum portions of seal per the following instructions.
- (1) Make cuts midway between retaining tentacles on each end of seal section being replaced. Remove section.
  - (2) If condition of seal is in doubt, replace entire seal.
  - (3) Cut new seal material to length required. Make sure there will be no gap between butted ends of old and new seals. Retain remaining new seal material for future use. Install new seal material by pulling retaining tentacles through appropriate holes provided. Apply small amount of white (RTV732) to the butted seal ends to keep them together, maintaining smooth seal contours.

**WJE 875-879; WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-874, 880, 881, 883, 884, 886, 887, 891-893  
POST DC9-57-203**

### 5. Wing Tip Lens Installation

Wing Tip Lens Installation

NOTE: Replace wing tip lens with P/N 5965110-1 for left side and P/N 5965110-2 for right side. Repair node seals and doublers as required in Service Bulletin 57-203 Rev 1. (Figure 205)

- A. Install wing tip lens as follows: (Figure 205)
- (1) Check lens for cleanliness and wash with mild detergent and dry with lint free cloth.
  - (2) Check lens attach holes for elongation, cracking, or retainer disbonding.
  - (3) Check lens attachment area for elongation, cracking, or disbonding.
  - (4) Apply bead of silicone 93-006 sealant to perimeter of wing attachment flange at base of flange .
  - (5) Install lens and sequence wing tip lens attachments by tightening diagonally opposing top and bottom screws to avoid preloading. Recommended torque values are 12 to 15 inch-pounds (1.40 to 1.70 N·m).

NOTE: Some older configurations of wing tip structure have fourteen nutplates for lens installation. If fourteen nutplates are present, the forward and aft nutplates (two each, top and bottom) are not required to be used with lenses which have only ten holes.

- (6) Apply fillet silicone 93-006 sealant to attachment area. Wipe edge of lens to remove excess sealant. (Figure 205)
- (7) Allow sealant to cure. If inclement weather or dispatch is required prior to cure, apply speedtape to attachment area and around edge of lens. Tape should not extend beyond 1.00 inch (25.4 mm) of lens edge.
- (8) Remove the safety tags and close these circuit breakers:

#### **LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-437	POSITION LIGHTS

#### **UPPER EPC, LIGHTS - LEFT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	10	B1-727	STROBE

#### EFFECTIVITY

**WJE 401-411, 415-427, 429, 861-866, 868, 869,  
871-881, 883, 884, 886, 887, 891-893**

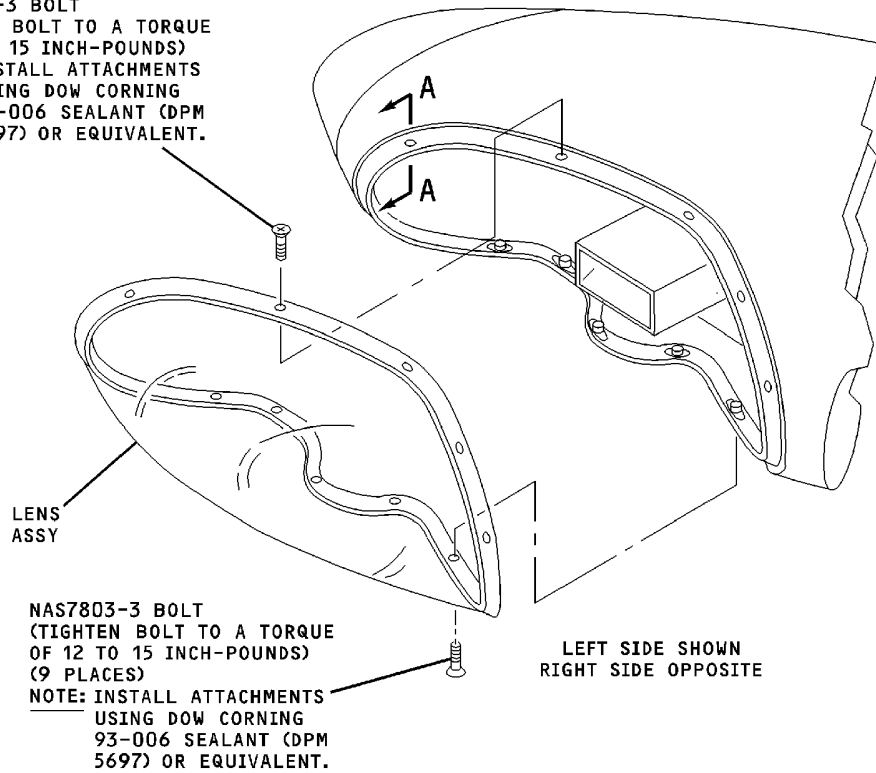
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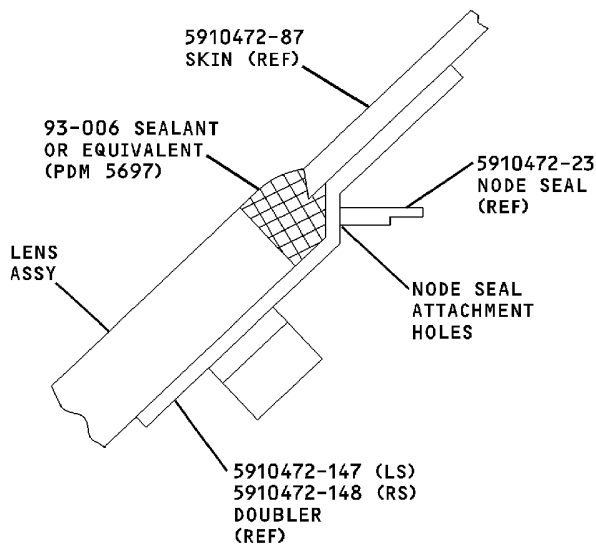
Config 1  
Page 219  
Feb 01/2016

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**

**NAS7803-3 BOLT**  
(TIGHTEN BOLT TO A TORQUE  
OF 12 TO 15 INCH-POUNDS)  
**NOTE:** INSTALL ATTACHMENTS  
USING DOW CORNING  
93-006 SEALANT (DPM  
5697) OR EQUIVALENT.



**NOTE:** FOR AIRCRAFT WITH 14 NUTPLATES  
FOR LENS INSTALLATION, IT IS  
ACCEPTABLE TO LEAVE FORWARD  
MOST (TOP AND BOTTOM) AND AFT  
MOST (TOP AND BOTTOM) FOUR  
NUTPLATES OPEN. (WHEN NEW  
LENS IS INSTALLED).



**VIEW A-A**

CAG(IGDS)

BBB2-33-492

**Wing Tip Lens Installation  
Figure 205/33-43-01-990-817**

**EFFECTIVITY**

WJE 875-879; WJE 401-411, 415-427, 429, 861-866,  
868, 869, 871-874, 880, 881, 883, 884, 886, 887,  
891-893 POST DC9-57-203

TP-80MM-WJE

**33-43-01**

Config 1  
Page 220  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### FORWARD AND AFT POSITION LIGHTS - MAINTENANCE PRACTICES

WJE

**1. General**

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- A. The removal and installation procedures for the left and the right position and strobe lights are identical. It is not necessary to remove the forward position lights lens to relamp or remove the forward position lights. Forward position lamp replacement is accomplished by removing the access panel on the surface of the wingtip and opening the hinged socket support bracket.
- B. When lamp replacement has been accomplished, actuate the appropriate switch to verify proper operation of the lights.

**2. Equipment and Materials**

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NOTE: Equivalent substitutes may be used instead of the following listed items:

WJE

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WJE

NOTE: It is possible that some materials in the Equipment and Materials List cannot be used for some or all of their necessary applications. Before you use the materials, make sure the types, quantities, and applications of the materials necessary are legally permitted in your location. All persons must obey all applicable federal, state, local, and provincial laws and regulations when it is necessary to work with these materials.

**Table 201**

Name and Number	Manufacturer
Sealant, 93-006 DPM 5697	Dow Corning Midland, MI
Catalyst, 93-006-1 DPM 5697	Dow Corning Midland, MI
High Speed Tape, Scotch 425 DPM 2215	3M Co.
Torque wrench 0-50 inch-pounds (0-5 N·m)	
Sealing compound, low adhesion #PR1773, Class B-1/2 & Class B-2 DMS 2410	PRC-DeSoto International Glendale, CA & Mojave, CA
Sealant, Polysulfide, Aluminized #AC-632, B-2 DMS 1819	Advanced Chemistry and Technology Garden Grove, CA

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**3. Removal/Installation Forward Position and Strobe Lights**

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- A. Remove Forward Position and Strobe Lights (Figure 201 or Figure 202)

WJE

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**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

WJE

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

WJE

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**LEFT CONSOLE, GROUND SERVICE BUS**

WJE

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-437	POSITION LIGHTS

WJE

WJE

WJE

WJE

**UPPER EPC, LIGHTS - LEFT AC BUS**

WJE

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	10	B1-727	STROBE

WJE

EFFECTIVITY  
WJE 412, 414

**33-43-01**

Config 3

Page 201

Feb 01/2015

TP-80MM-WJE

## MD-80 AIRCRAFT MAINTENANCE MANUAL

WJE **WARNING:** DANGEROUS VOLTAGES EXIST IN STROBE LIGHT CIRCUIT. ALLOW 10 MINUTES  
WJE FOR CAPACITOR DISCHARGE AFTER DEENERGIZING. ELECTRICAL DISCHARGE  
WJE CAN CAUSE INJURY.

WJE (2) If removing forward position lamps, perform following:

WJE **NOTE:** When a Primary Lamp burns out, the backup lamp should be relocated to the Primary  
WJE lamp position. A new lamp should then be installed in the backup lamp position.  
WJE Adherence to this practice will assure maximum lamp life and optimize lamp usage.

WJE (a) Remove lamp access panel from lower surface of wingtip.

WJE (b) Loosen Primary lamp retaining screw.

WJE (c) Pull lamp from Primary lamp socket.

WJE (d) Loosen backup lamp retaining screw.

WJE (e) Pull lamp from backup lamp socket.

WJE (f) Store serviceable lamps in a safe clean location until needed for assembly.

WJE (3) If removing forward strobe lamp, perform following:

WJE (a) Remove forward position light lens from wingtip.

WJE **NOTE:** Lamp replacement procedure applies to 701363, 702496, or 702536 light  
WJE assemblies only Lamp replacement for 031100-1 must be accomplished in  
WJE accordance with BFGoodrich CMM 33-40-12. Lamp replacement for 031100-1 is  
WJE not recommended due to required testing of assembly after maintenance on unit  
WJE is performed.

WJE **NOTE:** Clean lens inside surface if lens is removed for any reason, or when darkening or  
WJE staining of lens is noted. Clean lens with soap and water only. Do not allow  
WJE petroleum based solvents to contact lens or crazing and cracking could result.

WJE (b) Remove aft end plate from strobe light.

WJE **NOTE:** It is not necessary to remove end plate if lamp is held by hinged retainer  
WJE mechanism.

WJE (c) Remove lamp.

WJE (4) If removing forward strobe light unit, perform following:

WJE (a) Disconnect electrical connector from strobe light through access panel provided.

WJE (b) Remove strobe light unit with brackets from wingtip.

WJE (c) Remove brackets from strobe light and retain for installation with serviceable strobe light.

WJE B. Install Forward Position and Strobe Lights (Figure 201 or Figure 202)

WJE (1) If installing forward position lamps, perform following:

WJE (a) Install removed backup lamp in Primary lamp socket.

WJE (b) Ensure lamp is fully seated, then tighten Primary lamp retaining screw.

WJE **NOTE:** Pins in lamp mate with lamp holder for alignment.

WJE (c) Install new lamp in backup lamp socket.

WJE **CAUTION:** DURING STROBE LAMP INSTALLATION, AVOID EXCESSIVE SIDE PRESSURE  
WJE ON TRIGGER BAND CONTACT SPRING. EXCESSIVE PRESSURE CAN  
WJE CAUSE SPRING DISTORTION AND SUBSEQUENT FAILURE.

WJE (d) Ensure lamp is fully seated, then tighten Primary lamp retaining screw.

WJE (e) Install lamp access panel.

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**

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

WJE **LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-437	POSITION LIGHTS

WJE **UPPER EPC, LIGHTS - LEFT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	10	B1-727	STROBE

WJE (g) Place appropriate switch in POS position to check proper operation of lights.

WJE (2) If installing forward strobe lamp, perform following:

- WJE (a) Install lamp in strobe light.
- WJE (b) Clean lamp surface of fingerprints and contaminants.
- WJE (c) Install aft end plate on strobe light, if previously removed.
- WJE (d) Remove the safety tags and close these circuit breakers:

WJE **LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-437	POSITION LIGHTS

WJE **UPPER EPC, LIGHTS - LEFT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	10	B1-727	STROBE

WJE **WARNING:** NORMAL ELECTRICAL POWER SUPPLY FOR VARIOUS SYSTEMS IS INTERRUPTED WHEN GROUND SENSING CIRCUIT BREAKERS ARE OPENED. MAKE CERTAIN THAT SWITCHES AND CONTROLS OF AFFECTED SYSTEMS ARE IN CORRECT POSITIONS TO PREVENT INADVERTENT OPERATION OR SHUTDOWN OF EQUIPMENT.

WJE **WARNING:** DO NOT STARE AT STROBE LIGHTS WHEN FLASHING. TEMPORARY VISION IMPAIRMENT MAY RESULT.

WJE **WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

WJE (e) Open this circuit breaker and install safety tag:

WJE **UPPER EPC, L AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	33	B1-23	LEFT GROUND CONTROL RELAY

WJE Place appropriate switch in BOTH position to verify proper operation of lights.

WJE (3) If installing forward strobe light unit, perform following:

EFFECTIVITY  
WJE 412, 414

**33-43-01**

Config 3  
Page 203  
Feb 01/2015

TP-80MM-WJE

## MD-80 AIRCRAFT MAINTENANCE MANUAL

WJE **WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE  
WJE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY  
WJE TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

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

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-437	POSITION LIGHTS

**UPPER EPC, LIGHTS - LEFT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	10	B1-727	STROBE

- (b) Install brackets on strobe light.  
(c) Install strobe light on wingtip.  
(d) Connect electrical connector to strobe light through access panel.

**NOTE:** Cracked lens repair procedures are contained in the Approved Repairs section (PAGEBLOCK 33-43-01/801).

**CAUTION:** SEQUENCE OF INSTALLATION IS MANDATORY TO AVOID PRELOADING AND SUBSEQUENT CRACKING OF LENS.

**CAUTION:** PERIODIC RETORQUING OF LENS ATTACHMENTS WITH WORN CUSHIONED WASHERS MAY LEAD TO CRACKING AT ATTACHMENT AREA.

**CAUTION:** DO NOT ALLOW PETROLEUM SOLVENTS TO CONTACT LENS. CRAZING OR CRACKING MAY RESULT.

- (e) Install wing tip lens as follows:

- 1) Check lens for cleanliness and wash with mild detergent and dry with lint free cloth.

**WARNING:** DO NOT OVERTORQUE SCREWS. IF SCREWS BECOME LOOSE, REMOVE AND INSPECT CONDITION OF HOLES AND NUTPLATES. CLEAR ANY OBSTRUCTIONS. REINSTALL SCREWS AND TORQUE TO PROPER VALUE.

- 2) Sequence wing tip lens attachments by tightening diagonally opposing top and bottom screws to avoid preloading. Recommended torque values are 12 to 15 inch-pounds (1.40 to 1.70 N·m).

**NOTE:** Some older configurations of wing tip structure have fourteen nutplates for lens installation. If fourteen nutplates are present, the forward and aft nutplates (two each, top and bottom) are not required to be used with lenses which have only ten holes.

**WARNING:** SILICONE SEALANT IS AN AGENT THAT IS A LOW HAZARD. MAKE SURE ALL PERSONS OBEY THE PRECAUTIONS WHEN SILICONE SEALANT IS USED.

- USE IN AN AREA OPEN TO THE AIR.
- CLOSE THE CONTAINER WHEN NOT USED.

EFFECTIVITY  
WJE 412, 414

TP-80MM-WJE

# 33-43-01

Config 3  
Page 204  
Feb 01/2015



## MD-80 AIRCRAFT MAINTENANCE MANUAL

WJE (WARNING PRECEDES)

**WARNING:** REFER TO THE APPLICABLE MANUFACTURER'S OR SUPPLIERS MSDS FOR:

- MORE PRECAUTIONARY DATA.
- APPROVED SAFETY EQUIPMENT.
- EMERGENCY MEDICAL AID.
- TALK WITH THE LOCAL SAFETY DEPARTMENT OR AUTHORITIES FOR THE PROCEDURES TO DISCARD THIS HAZARDOUS AGENT.

3) Mix silicone 93-006 sealant per manufactures instructions.

a) Rapid cure sealants, as specified in Midwest Airlines' EA 51-014, may be substituted in lieu of the silicone 93-006 sealant (DPM 5697).

4) Fill and fair the sealant flush with the wing tip forward lens and the wing tip.

5) Encapsulate the wing tip attachment bolt heads.

6) Wipe edge of lens to remove excess sealant.

**NOTE:** It is acceptable to omit the sealant application in event of inclement weather and/or rapid aircraft dispatch provided that speedtape (DPM 2215) is applied over the gap between the wingtip forward lens and wingtip. Sufficient overlap and tape-to-structure contact is required around tape perimeter to prohibit in flight peeling. Tape should not extend beyond 1.00-inch of lens edge. Reference MD-80 Structural Repair Manual Chapter 51-02 for additional speedtape provisions. Sealing the assembly in accordance with the associate aircraft maintenance manual procedures shall be conducted prior to completion of the next scheduled service check (75 flight hours).

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

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-437	POSITION LIGHTS

**UPPER EPC, LIGHTS - LEFT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	10	B1-727	STROBE

EFFECTIVITY  
WJE 412, 414

TP-80MM-WJE

**33-43-01**

Config 3  
Page 205  
Feb 01/2015



## MD-80 AIRCRAFT MAINTENANCE MANUAL

WJE                    **WARNING:** NORMAL ELECTRICAL POWER SUPPLY FOR VARIOUS SYSTEMS IS  
WJE                    INTERRUPTED WHEN GROUND SENSING CIRCUIT BREAKERS ARE  
WJE                    OPENED. MAKE CERTAIN THAT SWITCHES AND CONTROLS OF AFFECTED  
WJE                    SYSTEMS ARE IN CORRECT POSITIONS TO PREVENT INADVERTENT  
WJE                    OPERATION OR SHUTDOWN OF EQUIPMENT.

WJE                    **WARNING:** DO NOT STARE AT STROBE LIGHTS WHEN FLASHING. TEMPORARY VISION  
WJE                    IMPAIRMENT MAY RESULT.

WJE                    **WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE  
WJE                    CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY  
WJE                    TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

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

**UPPER EPC, L AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	33	B1-23	LEFT GROUND CONTROL RELAY

Place appropriate switch on BOTH position to verify proper operation of lights.

**NOTE:** With Service Bulletin 33-112 incorporated, each light assembly has two lamps, only one is in operation at a time. The Fwd lamp which is closest to the camlock will come on first. The Aft lamp will come on only when the Fwd lamp burns out or is removed.

Remove the safety tag and close this circuit breaker:

**UPPER EPC, L AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	33	B1-23	LEFT GROUND CONTROL RELAY

#### 4. Removal/Installation Aft Position and Strobe Lights

- A. Remove Aft Position and Strobe Lights.

**WARNING:** TAG AND SAFETY CIRCUIT BREAKERS.

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

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-437	POSITION LIGHTS

**UPPER EPC, LIGHTS - LEFT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	10	B1-727	STROBE

**WARNING:** DANGEROUS VOLTAGES EXIST IN STROBE LIGHT CIRCUIT. ALLOW 10 MINUTES FOR CAPACITOR DISCHARGE AFTER DEENERGIZING. ELECTRICAL DISCHARGE CAN CAUSE INJURY.

- (2) If removing aft position lamps, perform the following:
- (a) Remove lens attaching screws and remove lens from light.
  - (b) Loosen (do not remove) terminal screws, and disconnect terminal lugs from terminals.
  - (c) Loosen (do not remove) lamp mounting screw.
- (3) If removing aft strobe lamp, perform the following:

EFFECTIVITY  
WJE 412, 414

TP-80MM-WJE

**33-43-01**

Config 3  
Page 206  
Feb 01/2015

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**

- WJE (a) Remove lens attaching screws and remove lens from light.
- WJE (b) Remove inboard end plate of strobe light.
- WJE NOTE: It is not necessary to remove end plate if lamp is held by hinged retainer
- WJE mechanism.
- WJE (c) Remove strobe lamp.
- WJE (4) If removing aft strobe light unit, perform the following:
- WJE (a) Disconnect electrical connector from light through access panel provided.
- WJE (b) Remove strobe light unit from wingtip.
- WJE B. Install Aft Position and Strobe Lights.

**WARNING:** AVOID PROLONGED GROUND USE OF NAV LIGHTS TO REDUCE OVERHEATING OF INSIDE LENS SURFACES. HEAT EMBRITTEMENT AND SHRINKAGE OF POLYCARBONATE CAUSES CRAZING AND CRACKING OF LENS DIRECTLY ABOVE LAMP.

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Make sure that these circuit breakers are open and have safety tags:

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-437	POSITION LIGHTS

**UPPER EPC, LIGHTS - LEFT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	10	B1-727	STROBE

- (2) If installing aft position lamps, perform the following:
- (a) Clean lamp surface of fingerprints and contaminants.
- (b) Install lamp into mounting bracket, guiding lamp wires through slot. Ensure lamp is seated.
- (c) Tighten lamp mounting screw.
- (d) Connect terminal lugs to terminals, and tighten terminal screws.
- (e) Install lens.
- (f) Remove the safety tags and close these circuit breakers:

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-437	POSITION LIGHTS

**UPPER EPC, LIGHTS - LEFT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	10	B1-727	STROBE

**WARNING:** DO NOT STARE AT STROBE LIGHTS WHEN FLASHING. TEMPORARY VISION IMPAIRMENT MAY RESULT.

- (g) Place appropriate switch in POS position to check proper operation of lamps.

## MD-80 AIRCRAFT MAINTENANCE MANUAL

WJE (h) Place appropriate switch in OFF. Lights should go off.

WJE (3) If installing aft strobe lamp, perform the following:

**CAUTION:** DURING STROBE LAMP INSTALLATION, AVOID EXCESSIVE SIDE PRESSURE ON TRIGGER BAND CONTACT SPRING. EXCESSIVE PRESSURE CAN CAUSE SPRING DISTORTION AND SUBSEQUENT FAILURE.

WJE (a) Install strobe lamp.

WJE (b) Clean lamp surface of fingerprints and contaminants.

WJE (c) Install lens on light unit.

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

WJE **LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-437	POSITION LIGHTS

WJE **UPPER EPC, LIGHTS - LEFT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	10	B1-727	STROBE

WJE **WARNING:** NORMAL ELECTRICAL POWER SUPPLY FOR VARIOUS SYSTEMS IS INTERRUPTED WHEN GROUND SENSING CIRCUIT BREAKERS ARE OPENED. MAKE CERTAIN THAT SWITCHES AND CONTROLS OF AFFECTED SYSTEMS ARE IN CORRECT POSITIONS TO PREVENT INADVERTENT OPERATION OR SHUTDOWN OF EQUIPMENT.

WJE **WARNING:** DO NOT STARE AT STROBE LIGHTS WHEN FLASHING. TEMPORARY VISION IMPAIRMENT MAY RESULT.

WJE (e) Place appropriate switch in BOTH position to verify proper operation of lights.

WJE **WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

WJE (f) Open this circuit breaker and install safety tag:

WJE **UPPER EPC, L AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	33	B1-23	LEFT GROUND CONTROL RELAY

WJE (4) Place appropriate switch in BOTH position to check proper operation of lights.

WJE Remove the safety tag and close this circuit breaker:

WJE **UPPER EPC, L AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	33	B1-23	LEFT GROUND CONTROL RELAY

WJE (5) If installing aft strobe light unit, perform following:

WJE (a) Install light unit in trailing edge of wing and secure with attaching screws.

WJE **WARNING:** USE THE HAZARDOUS MATERIAL WARNINGS GIVEN BELOW FOR THE STEPS THAT FOLLOW.

WJE THE HAZARDOUS MATERIAL WARNINGS ARE LISTED AFTER THE INTRODUCTION SECTION IN THE FRONT OF THE AMM.

EFFECTIVITY  
WJE 412, 414

**33-43-01**

Config 3  
Page 208  
Feb 01/2015

TP-80MM-WJE

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**

**(WARNING PRECEDES)**

Hazardous Material Warnings

HAZMAT 1223, SEALANT/POLYSULFIDE ALUMINIZED (DMS QPL 1819)

HAZMAT 1155, SEALANT/LOW ADHESION  
(DMS QPL 2410; supersedes DPM 256-1)

HAZMAT 1000, REFER TO MSDS

- 1) After the installation of the aft position light housing, the voids between the light housing and wind tip structure shall be filled with sealing compound (DMS 2410). The butt joint shall be sealed with polysulfide sealant (DMS 1819) and the sealant shall be flushed off to the surrounding structure.

(b) Connect electrical connector to light through access panel provided.

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

**UPPER EPC, L AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	33	B1-23	LEFT GROUND CONTROL RELAY

**WARNING:** NORMAL ELECTRICAL POWER SUPPLY FOR VARIOUS SYSTEMS IS INTERRUPTED WHEN GROUND SENSING CIRCUIT BREAKERS ARE OPENED. MAKE CERTAIN THAT SWITCHES AND CONTROLS OF AFFECTED SYSTEMS ARE IN CORRECT POSITIONS TO PREVENT INADVERTENT OPERATION OR SHUTDOWN OF EQUIPMENT.

**WARNING:** DO NOT STARE AT STROBE LIGHTS WHEN FLASHING. TEMPORARY VISION IMPAIRMENT MAY RESULT.

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

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

**UPPER EPC, L AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	33	B1-23	LEFT GROUND CONTROL RELAY

(e) If installing aft strobe light unit, perform following:

- 1) Install light unit in trailing edge of wing and secure with attaching screws.
- 2) Connect electrical connector to light through access panel provided.

Remove the safety tags and close these circuit breakers:

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-437	POSITION LIGHTS

**UPPER EPC, LIGHTS - LEFT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	10	B1-727	STROBE

## MD-80 AIRCRAFT MAINTENANCE MANUAL

WJE **WARNING:** NORMAL ELECTRICAL POWER SUPPLY FOR VARIOUS SYSTEMS IS  
WJE INTERRUPTED WHEN GROUND SENSING CIRCUIT BREAKERS ARE  
WJE OPENED. MAKE CERTAIN THAT SWITCHES AND CONTROLS OF AFFECTED  
WJE SYSTEMS ARE IN CORRECT POSITIONS TO PREVENT INADVERTENT  
WJE OPERATION OR SHUTDOWN OF EQUIPMENT.

WJE **WARNING:** DO NOT STARE AT STROBE LIGHTS WHEN FLASHING. TEMPORARY VISION  
WJE IMPAIRMENT MAY RESULT.

WJE **WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE  
WJE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY  
WJE TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

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

**UPPER EPC, L AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	33	B1-23	LEFT GROUND CONTROL RELAY

- (g) Place appropriate switch in BOTH position to check proper operation of lights.

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

**UPPER EPC, L AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	33	B1-23	LEFT GROUND CONTROL RELAY

WJE **WARNING:** SILICONE SEALANT IS AN AGENT THAT IS A LOW HAZARD. MAKE SURE ALL  
WJE PERSONS OBEY THE PRECAUTIONS WHEN SILICONE SEALANT IS USED.

- USE IN AN AREA OPEN TO THE AIR.
- CLOSE THE CONTAINER WHEN NOT USED.

WJE **WARNING:** REFER TO THE APPLICABLE MANUFACTURER'S OR SUPPLIERS MSDS  
WJE FOR:

- MORE PRECAUTIONARY DATA.
- APPROVED SAFETY EQUIPMENT.
- EMERGENCY MEDICAL AID.
- TALK WITH THE LOCAL SAFETY DEPARTMENT OR AUTHORITIES FOR THE PROCEDURES TO DISCARD THIS HAZARDOUS AGENT.

- (i) Apply a fillet of silicone 93-006 sealant around the trailing edge where it meets the lens.  
Allow 24 hours sealant cure time.

- 1) Rapid cure sealants, as specified in Midwest Airlines' EA 51-014, may be substituted in lieu of the silicone 93-006 sealant (DPM 5697).

- (j) Apply a fillet of silicone 93-006 sealant around the electrical disconnect access panel.  
Allow 24 hours sealant cure time.

EFFECTIVITY  
WJE 412, 414

TP-80MM-WJE

**33-43-01**

Config 3  
Page 210  
Feb 01/2015

**MD-80**  
**AIRCRAFT MAINTENANCE MANUAL**

WJE 1) Rapid cure sealants, as specified in Midwest Airlines' EA 51-014, may be  
WJE substituted in lieu of the silicone 93-006 sealant (DPM 5697).

WJE NOTE: It is acceptable to omit the sealant application in event of inclement weather  
WJE and/or rapid aircraft dispatch provided that speedtape (DPM 2215) is  
WJE applied over the joint of the wingtip and the aft strobe and position light  
WJE assembly. Sufficient overlap and tape-to-structure contact is required  
WJE around tape perimeter to prohibit in flight peeling. Tape should not extend  
WJE onto lens. Reference MD-80 Structural Repair Manual Chapter 51-02 for  
WJE additional speedtape provisions. Sealing the assembly in accordance with  
WJE the associate aircraft maintenance manual procedures shall be conducted  
WJE prior to completion of the next scheduled service check (75 flight hours).

WJE C. Wing Tip Lens Installation (Figure 203) :

- WJE (1) Install wing tip lens as follows:  
WJE (2) Check lens for cleanliness and wash with mild detergent and dry with lint free cloth.  
WJE (3) Check lens attach holes for elongation, cracking, or retainer disbonding.  
WJE (4) Check lens attachment area for elongation, cracking, or disbonding.

WJE **WARNING**: SILICONE SEALANT IS AN AGENT THAT IS A LOW HAZARD. MAKE SURE ALL  
WJE PERSONS OBEY THE PRECAUTIONS WHEN SILICONE SEALANT IS USED.

- WJE • USE IN AN AREA OPEN TO THE AIR.  
WJE • CLOSE THE CONTAINER WHEN NOT USED.

WJE **WARNING**: REFER TO THE APPLICABLE MANUFACTURER'S OR SUPPLIERS MSDS FOR:

- WJE • MORE PRECAUTIONARY DATA.  
WJE • APPROVED SAFETY EQUIPMENT.  
WJE • EMERGENCY MEDICAL AID.  
WJE • TALK WITH THE LOCAL SAFETY DEPARTMENT OR AUTHORITIES FOR THE  
WJE PROCEDURES TO DISCARD THIS HAZARDOUS AGENT.

WJE (5) Apply bead of silicone 93-006 sealant to perimeter of wing attachment flange at base of flange  
WJE .

WJE (a) Rapid cure sealants, as specified in Midwest Airlines' EA 51-014, may be substituted in  
WJE lieu of the silicone 93-006 sealant (DPM 5697).

WJE **WARNING**: DO NOT OVERTORQUE SCREWS. IF SCREWS BECOME LOOSE, REMOVE AND  
WJE INSPECT CONDITION OF HOLES AND NUTPLATES. CLEAR ANY OBSTRUCTIONS.  
WJE REINSTALL SCREWS AND TORQUE TO PROPER VALUE.

WJE (6) Install lens and sequence wing tip lens attachments by tightening diagonally opposing top and  
WJE bottom screws to avoid preloading. Recommended torques values are 12 to 15 inch-pounds  
WJE (1.40 to 1.70 N.M)

WJE NOTE: Some older configurations of wing tip structure have fourteen nutplates for lens  
WJE installation. If fourteen nutplates are present, the forward and aft nutplates (two each,  
WJE top and bottom) are not required to be used with lenses which have only ten holes.

WJE **WARNING**: SILICONE SEALANT IS AN AGENT THAT IS A LOW HAZARD. MAKE SURE ALL  
WJE PERSONS OBEY THE PRECAUTIONS WHEN SILICONE SEALANT IS USED.

- WJE • USE IN AN AREA OPEN TO THE AIR.  
WJE • CLOSE THE CONTAINER WHEN NOT USED.

## MD-80 AIRCRAFT MAINTENANCE MANUAL

**WJE (WARNING PRECEDES)**

**WJE**                    **WARNING:** REFER TO THE APPLICABLE MANUFACTURER'S OR SUPPLIERS MSDS FOR:

- WJE**                    • MORE PRECAUTIONARY DATA.
- WJE**                    • APPROVED SAFETY EQUIPMENT.
- WJE**                    • EMERGENCY MEDICAL AID.
- WJE**                    • TALK WITH THE LOCAL SAFETY DEPARTMENT OR AUTHORITIES FOR THE PROCEDURES TO DISCARD THIS HAZARDOUS AGENT.

**WJE**                    (7) Apply fillet silicone 93-006 sealant to attachment area . Wipe edge of lens to remove excess sealant.

**WJE**                    (a) Rapid cure sealants, as specified in Midwest Airlines' EA 51-014, may be substituted in lieu of the silicone 93-006 sealant (DPM 5697).

**WJE**                    **NOTE:** It is acceptable to omit the sealant application in event of inclement weather and/or rapid aircraft dispatch provided that speedtape (DPM 2215) is applied over the joint of the wingtip and the aft strobe and position light assembly. Sufficient overlap and tape-to-structure contact is required around tape perimeter to prohibit in flight peeling. Tape should not extend on to lens. Reference MD-80 Structural Repair Manual Chapter 51-02 for additional speedtape provisions. Sealing the assembly in accordance with the associate aircraft maintenance manual procedures shall be conducted prior to completion of the next scheduled service check (75 flight hours).

**WJE**                    (8) Remove the safety tags and close these circuit breakers:

**WJE**                    **LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-437	POSITION LIGHTS

**WJE**                    **UPPER EPC, LIGHTS - LEFT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	10	B1-727	STROBE

**WJE**

EFFECTIVITY  
WJE 412, 414

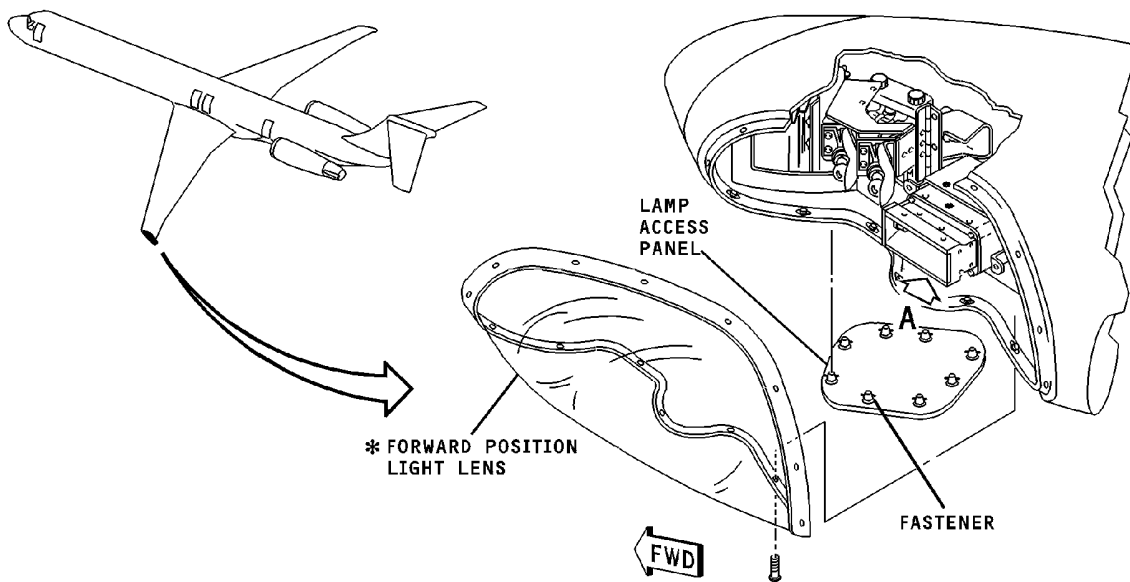
TP-80MM-WJE

**33-43-01**

Config 3  
Page 212  
Feb 01/2015



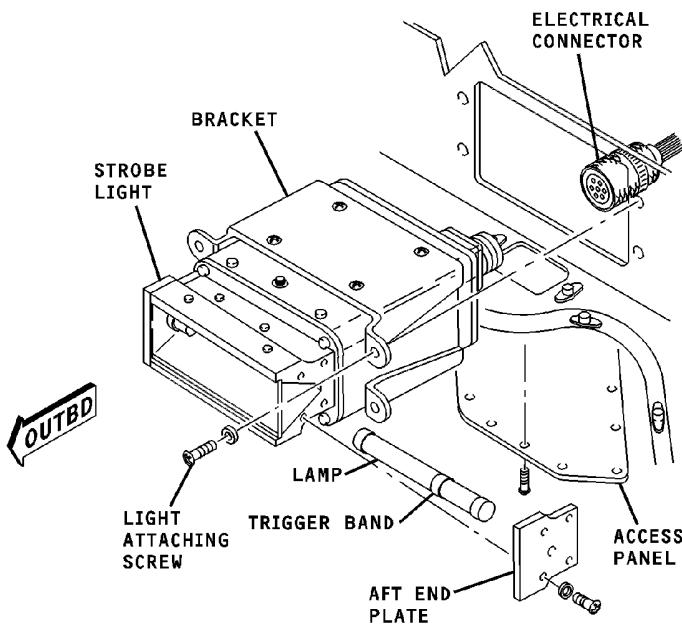
**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



**FORWARD POSITION LIGHTS  
(TYPICAL LEFT AND RIGHT)**

**\* NOTE:**  
CLEAN WITH SOAP  
AND WATER ONLY. DO  
NOT ALLOW PETROLEUM  
SOLVENTS TO CONTACT  
LENS.

**CAUTION:**  
DURING STROBE LAMP INSTALLATION,  
AVOID EXCESSIVE SIDE PRESSURE ON  
THE TRIGGER BAND CONTACT SPRING.  
EXCESSIVE PRESSURE MAY CAUSE  
SPRING DISTORTION AND SUBSEQUENT  
FAILURE.



**VIEW A  
STROBE LIGHT**

CAG(IGDS)

BBB2-33-532

**Forward Position Lights - Removal/Installation  
Figure 201/33-43-01-990-806 (Sheet 1 of 2)**

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EFFECTIVITY  
WJE 412, 414

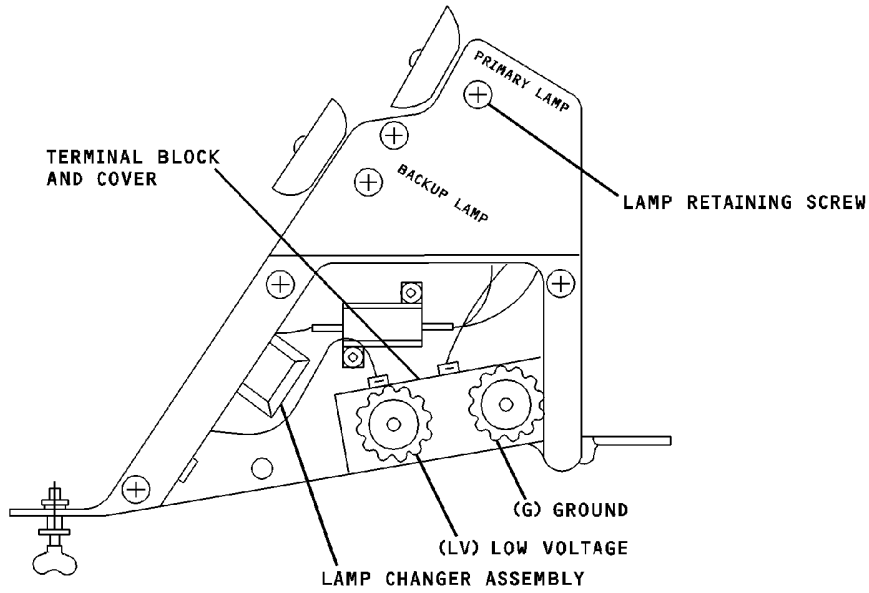
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**33-43-01**

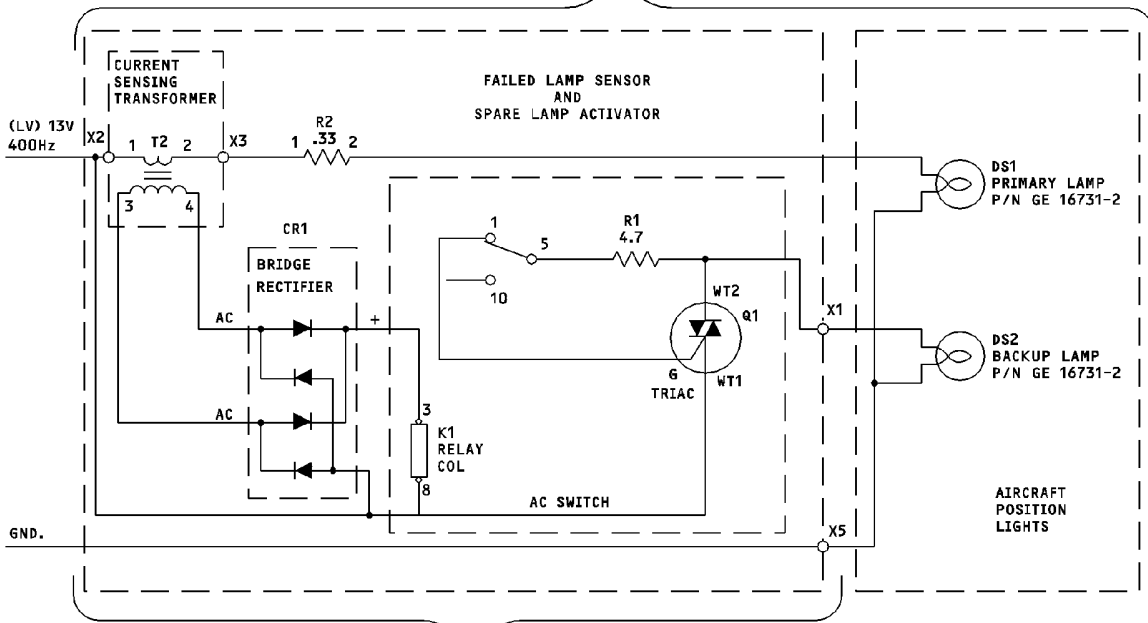
Config 3  
Page 213  
Feb 01/2015



**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



SCHEMATIC FOR  
P/N 011001-1 & -2



SCHEMATIC FOR  
LAMP CHANGER ASSY.  
P/N 011013-1

CAG(IGDS)

BBB2-33-533

WJE  
WJE

**Forward Position Lights - Removal/Installation  
Figure 201/33-43-01-990-806 (Sheet 2 of 2)**

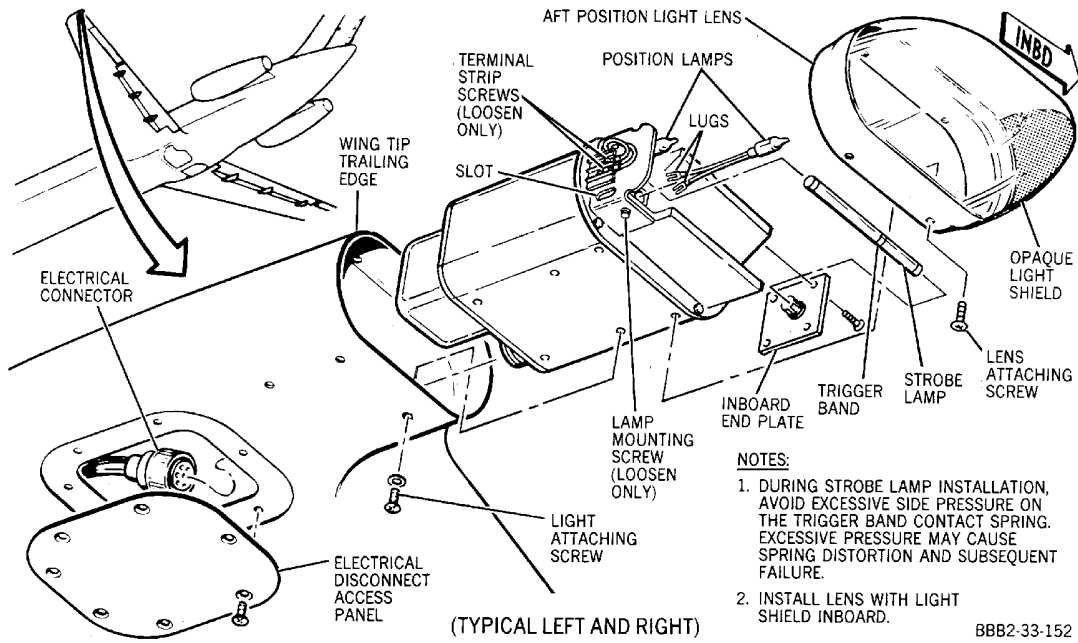
EFFECTIVITY  
WJE 412, 414

TP-80MM-WJE

**33-43-01**

Config 3  
Page 214  
Feb 01/2015

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



**Aft Position Lights - Removal/Installation  
Figure 202/33-43-01-990-807**

WJE  
WJE  
WJE

EFFECTIVITY  
WJE 412, 414

TP-80MM-WJE

**33-43-01**

Config 3  
Page 215  
Feb 01/2015



# MD-80 AIRCRAFT MAINTENANCE MANUAL

## FORWARD AND AFT POSITION LIGHTS - ADJUSTMENT/TEST

### 1. General

A. This procedure contains MSG-3 task card data.

#### TASK 33-43-01-710-801

### 2. Operational Check of the Position Lights

#### A. Operational Check of the Position Lights

SUBTASK 33-43-01-710-001

**WARNING:** DO NOT LOOK AT THE LIGHTS FOR A LONG TIME. THE LIGHTS CAN CAUSE INJURIES TO YOUR EYES.

- (1) Do an operational check of the position lights.
  - (a) Place POS/STROBE switch on the glareshield to POS.
    - 1) Check that both RED lights in the fwd left wing tip come ON.
    - 2) Check that both GREEN lights in the fwd right wing tip come ON.
    - 3) Check that both WHITE lights in each aft wing tip come ON.

**NOTE:** On some airplanes, only one of the two white lights in each aft wing tip comes on. The off light is a standby and comes on if the active light fails.

- (b) Place POS/STROBE switch to OFF.
- (c) Make sure position lights go OUT.

————— **END OF TASK** —————

#### TASK 33-43-01-710-802

### 3. Operational Check of the Wing Strobe Lights

#### A. Operational Check of the Wing Strobe Lights

SUBTASK 33-43-01-710-002

**WARNING:** NORMAL ELECTRICAL POWER TO VARIOUS SYSTEMS MAY BE INTERRUPTED WHEN GROUND CONTROL RELAY CIRCUIT BREAKERS ARE OPEN. MAKE CERTAIN THAT SWITCHES AND CONTROLS OF AFFECTED SYSTEMS ARE IN CORRECT POSITIONS TO PREVENT INADVERTENT OPERATION OF EQUIPMENT.

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Do an operational check of the wing strobe lights.  
Open these circuit breakers and install safety tags:

#### **UPPER EPC, L AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 417, 419, 421, 423, 865, 869, 871, 872</b>			
K	30	B1-23	LEFT GROUND CONTROL RELAY
<b>WJE 401-412, 414-416, 418, 420, 422, 424-427, 429, 861-864, 866, 868, 873-881, 883, 884, 886, 887, 891-893</b>			
K	33	B1-23	LEFT GROUND CONTROL RELAY

EFFECTIVITY  
WJE ALL

# 33-43-01

TP-80MM-WJE

Page 501  
Feb 01/2016

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**

**WJE ALL**

- (a) Place glareshield POS/STROBE switch to BOTH positions.

**WARNING:** DO NOT LOOK DIRECTLY AT FLASHING STROBE LIGHT FROM CLOSE RANGE. LIGHT FLASHES MAY CAUSE MOMENTARY VISION IMPAIRMENT.

- (b) Check that each fwd and aft strobe light in the left and right wingtip flashes.

Remove the safety tags and close these circuit breakers:

**UPPER EPC, L AC BUS**

**Row   Col   Number   Name**

**WJE 417, 419, 421, 423, 865, 869, 871, 872**

K   30   B1-23   LEFT GROUND CONTROL RELAY

**WJE 401-412, 414-416, 418, 420, 422, 424-427, 429, 861-864, 866, 868, 873-881, 883, 884, 886, 887, 891-893**

K   33   B1-23   LEFT GROUND CONTROL RELAY

**WJE ALL**

- (c) Make sure strobes stop operating.  
(d) Place POS/STROBE switch to OFF.

———— **END OF TASK** ————

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

**33-43-01**

Page 502  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### FORWARD AND AFT POSITION LIGHTS - INSPECTION CHECK

#### 1. General

A. This procedure has the forward position light lens inspection criteria.

NOTE: The forward position light lens is made from 0.250 in. (6.35 mm) thick polycarbonate material. Disposition defects found in accordance with Damage Criteria chart.

B. There are two configurations usable as replacements for the forward position light lens.

(1) One type of lens is defined by the features that follow:

- polycarbonate body and edge attachment
- attachment holes are straight or countersunk
- attachment holes = 14 or 10

(2) The other type of lens is defined by the features that follow:

- polycarbonate body
- notched areas around each attachment hole
- fiberglass edge attachment bonded to the polycarbonate
- attachment holes are straight
- attachment holes = 10

(3) Both lenses have an abrasion resistant wear coating applied to the exterior surface of the lens.

#### 2. Inspection/Check - Forward Position Light Lens

A. Inspect the Forward Position Light Lens

(1) **Crazing/Hazing** - Do an inspection of the forward position light lens for crazing/hazing as follows:

- (a) Crazing or hazing is defined as several small cracks or fissures that are perpendicular to the surface, but do not extend completely through the material.
- (b) Crazing can be caused by contact with non-approved fluids or cleaners. Crazing of the substrate material can be the result of improper cleaning or polishing, exposure to airborne contaminants or pollutants, or localized stresses at the attachments.
- (c) Crazing/Hazing will decrease the intensity and causes refraction or diffusion of light.
- (d) Immediate repairs are not necessary. Refurbish the lens at the next maintenance interval. (FORWARD AND AFT POSITION LIGHTS - APPROVED REPAIRS, PAGEBLOCK 33-43-01/801)

(2) **Scratches** - Do an inspection of the forward position light lens for scratches as follows:

- (a) A scratch is defined as a line type defect in the surface of the lens. There are three types of scratches.
  - 1) Hairline scratches can be seen but cannot be felt with the fingernail.
  - 2) Light scratches are less than 0.010 in. (0.25 mm) deep and can be felt with your fingernail.
  - 3) Heavy scratches are more than 0.010 in. (0.25 mm) deep and can be easily felt with your fingernail.
- (b) Scratches will decrease the intensity and causes refraction or diffusion of light.
- (c) Immediate repairs are not necessary. Refurbish the lens at the next maintenance interval. (FORWARD AND AFT POSITION LIGHTS - APPROVED REPAIRS, PAGEBLOCK 33-43-01/801)

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

# 33-43-01

Page 601  
Feb 01/2015

**MD-80**  
**AIRCRAFT MAINTENANCE MANUAL**

- (3) Discoloration - Do an inspection of the forward position light lens for discoloration as follows:
- (a) Discoloration is a noticeable difference in visual appearance of the lens or localized areas of the lens that are darker than surrounding areas.
  - (b) Discoloration will decrease the intensity and causes refraction or diffusion of light.
  - (c) Immediate repairs are not necessary. Refurbish the lens at the next maintenance interval. (FORWARD AND AFT POSITION LIGHTS - APPROVED REPAIRS, PAGEBLOCK 33-43-01/801)
- (4) Cracks - Do an inspection of the forward position light lens for cracks follows:
- (a) Cracks are line type defects through the entire surface and substrate material of the lens. Cracks can start from attachment holes or can occur in the body of the lens.
    - 1) Single cracks can occur anywhere on the lens.
    - 2) Multiple cracks originating from the same or different points of origin can lead to a piece of the lens separating and falling off.
  - (b) Cracks may cause the conditions that follow:
    - 1) Brittleness of the polycarbonate to be evident.
    - 2) The lens may be loose once installed.
    - 3) Pieces of the polycarbonate may separate from the lens.
  - (c) If there are cracks but the lens is not loose and there are no loose missing pieces, refer to FORWARD AND AFT POSITION LIGHTS - APPROVED REPAIRS, PAGEBLOCK 33-43-01/801.
  - (d) If there are loose or missing pieces go to Paragraph 2.A.(5).
- (5) Missing pieces - Do an inspection of the forward position light lens for missing pieces as follows:
- (a) Foreign object damage (FOD) to a lens can break off pieces or multiple cracks running together can cause a piece of a lens to fall off.
  - (b) Sections of the edge attachment or areas of the lens body missing can result in moisture egress into the wing tip lights.
  - (c) If there are missing pieces go to Paragraph 2.B. for temporary repair.
  - (d) If damage is too severe replace the lens completely.
- NOTE: Whether a temporary repair is feasible has to be evaluated on a case-by-case basis depending on lens condition.
- (6) Seal(s) - Do an inspection of the seals for the forward position light lens as follows:
- (a) Seals are attached to the inside edge of lens to protect against moisture egress into the area of wing tip position lights.
  - (b) Inspect seal for tears, splits, and cuts.

**WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893**

- (c) Immediate repairs are not necessary. Refurbish the lens seal at the next maintenance interval per FORWARD AND AFT POSITION LIGHTS - MAINTENANCE PRACTICES, PAGEBLOCK 33-43-01/201 Config 1.

**WJE 412, 414**

- (d) Immediate repairs are not necessary. Refurbish the lens seal at the next maintenance interval. (FORWARD AND AFT POSITION LIGHTS - MAINTENANCE PRACTICES, PAGEBLOCK 33-43-01/201 Config 3)

EFFECTIVITY  
WJE ALL

**33-43-01**

TP-80MM-WJE

Page 602  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### WJE ALL

#### B. Temporary Repair

- (1) If multiple attach holes in upper or lower lens surface are cracked, perform the following:
  - (a) Apply high speed tape around all edges of lens.
  - (b) Overlap lens edge by 1.5 in. (38.1 mm).
  - (c) Check condition of tape prior to each flight until lens is replaced.

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

# 33-43-01

Page 603  
Feb 01/2015



# MD-80 AIRCRAFT MAINTENANCE MANUAL

## FORWARD AND AFT POSITION LIGHTS - APPROVED REPAIRS

### 1. General

- A. Forward position light lens approved repairs consist of procedures for repairing and polishing of lens, dependent upon the severity of damage.

NOTE: The forward position light lens is made of 0.25 inch (6.4 mm) thick polycarbonate material. Light to moderate crazing in the edge mounting holes is acceptable provided cracks are not present.

### 2. Equipment and Materials

NOTE: Equivalent substitutes may be used instead of the following listed items:

NOTE: It is possible that some materials in the Equipment and Materials List cannot be used for some or all of their necessary applications. Before you use the materials, make sure the types, quantities, and applications of the materials necessary are legally permitted in your location. All persons must obey all applicable federal, state, local, and provincial laws and regulations when it is necessary to work with these materials.

**Table 801**

Name and Number	Manufacturer
Sealant, silicone RTV-738 DPM 5811	Dow Corning Corp. Midland, MI
Cement, high strength, acrylic epoxy, Weld-On 40 (components A and B) DPM 6000/-1	Industrial Polychemical Service Gardena, CA
Adhesive, silicone RTV 732-1 DPM 5614-1	Dow Corning Co. Midland, MI
Cleaning solvent, Naptha DPM 5629	Commercially available
Isopropyl alcohol (IPA) DPM 530	Commercially available
Detergent, mild, Joy DPM 3673	Commercially available
Abrasive, cushioned, Micro-Mesh '0000 range DPM 5760	Micro-Surfaces Finishing Products Wilton, IA
Optical polish and rubbing compound, Cerrox SR-XII DPM 5741	Anomet Inc. Compton, CA
Polishing compound, No. 720 DPM 5987	Transelco Inc. Penn Yan, NY
Wax, Simonize DPM 590	Commercially available
Masking tape	Commercially available
Cellophane or polyethylene tape	Commercially available
Paper, abrasive,	Commercially available
Carborundum, wet or dry, Grades 320, 400, 600	
Cloth, abrasive, wet or dry, Grades 1800, 2400, 3200 3600, 4000, 6000, 8000	Commercially available
Polycarbonate sheet, .25-inch thick DMS 1713	Commercially available
High temperature glass plug, Pyrex 1.5-inch diameter	Corning Glass Works

EFFECTIVITY  
WJE ALL

**33-43-01**

TP-80MM-WJE

Page 801  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

**Table 801 (Continued)**

Name and Number	Manufacturer
Outing flannel cloth, Wamco 101C	Detro Mfg. Company Rancho Dominguez, CA
Rubber block, 35 +/- shore A hardness or wood block	Commercially available
Buffing wheels (a) felt, 3/8-inch, 4 thru 10-inch diameter (b) flannel, 4 to 10-inch diameter	Commercially available
Drill and drill bits	Commercially available
Hole cutter, adjustable, size 1 3/8-inch shank	Gower
Rubber block, 35 +/- shore A hardness or wood block	Commercially available
Buffing wheels (a) felt, 3/8-inch, 4 thru 10-inch diameter (b) flannel, 4 to 10-inch diameter	Commercially available
Drill and drill bits	Commercially available
Hole cutter, adjustable, size 1 3/8-inch shank	Gower
Brush	Commercially available
Spring Clamps	Commercially available
Squeegee, Plastic	Commercially available
Sand Paper, 36-grit	Commercially available
Emory Cloth, 80-grit	Commercially available
Cleaning Wipers	Commercially available
Cleaning Solvent DPM 518	Commercially available
Reactive Cement DPM 1346, Type 2	Commercially available

### **3. Approved Repairs - Forward and Aft Position Lights**

#### **A. General Repair Guidelines**

- (1) Cracks of 6 inches (152.4 mm) or less may be stop drilled using number 40 drill and filled using Weld-On 40 acrylic epoxy.
- (2) Forward two attach holes and aft two attach holes should be plugged using Weld-On 40 acrylic epoxy (Lens with fiberglass edge attachment bonded to the polycarbonate only). Remaining ten attach holes offer sufficient clamp-down to retain lens in position. Two leading and two trailing edge holes induce undue stress on lens body during clamp-down.

**NOTE:** To minimize stress on the surrounding material surface the remaining ten (10) attachments may be installed using a domed washer with (RTV 738) silicone sealant under the washer. This will distribute the load over a larger area and minimize the stress imposed by the fastener.

- (3) Multiple cracks and cracks in excess of 6.0 inches in fastener area, are permissible.

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

# 33-43-01

Page 802  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

**WARNING:** LIQUID EPOXY RESIN IS AN AGENT THAT IS POISONOUS AND AN IRRITANT. MAKE SURE ALL PERSONS OBEY THE PRECAUTIONS WHEN LIQUID EPOXY RESIN IS USED.

- DO NOT USE IN AREAS WHERE THERE IS HIGH HEAT, SPARKS, OR FLAMES.
- USE IN AN AREA OPEN TO THE AIR.
- CLOSE THE CONTAINER WHEN NOT USED.
- DO NOT GET LIQUID EPOXY RESIN IN THE EYES, ON THE SKIN, OR ON YOUR CLOTHES.
- DO NOT BREATHE THE GAS.

**WARNING:** REFER TO THE APPLICABLE MANUFACTURER'S OR SUPPLIER'S MSDS FOR:

- MORE PRECAUTIONARY DATA
- APPROVED SAFETY EQUIPMENT
- EMERGENCY MEDICAL AID.

TALK WITH THE LOCAL SAFETY DEPARTMENT OR AUTHORITIES FOR THE PROCEDURES TO DISCARD THESE HAZARDOUS AGENTS.

- (4) Stop drill all cracks using number 40 drill and fill with PS-30 acrylic resin or Weld-on 40.
- (5) Replace any lens repaired per any of these temporary limits at earliest possible convenience.

B. Repair Forward Position Light Lens - Fastener Area

- (1) Route out crazed and crack area.

**NOTE:** Retain accurate hole pattern if it is necessary to route out fastener hole.

- (2) Smooth rework area by sanding to eliminate chips and rough surface.
- (3) Roughen faying surfaces with 320 grit wet-or-dry paper.

**WARNING:** LIQUID DETERGENT IS AN AGENT THAT IS AN IRRITANT. MAKE SURE ALL PERSONS OBEY THE PRECAUTIONS WHEN LIQUID DETERGENT IS USED.

- DO NOT USE IN AREAS WHERE THERE IS HIGH HEAT, SPARKS, OR FLAMES.
- USE IN AN AREA OPEN TO THE AIR.
- CLOSE THE CONTAINER WHEN NOT USED.
- DO NOT GET LIQUID DETERGENT IN THE EYES, ON THE SKIN, OR ON YOUR CLOTHES.
- DO NOT BREATHE THE GAS.

**WARNING:** PETROLEUM AROMATIC NAPHTHA IS AN AGENT THAT IS FLAMMABLE, POISONOUS, AND AN IRRITANT. MAKE SURE ALL PERSONS OBEY ALL OF THE PRECAUTIONS WHEN PETROLEUM AROMATIC NAPHTHA IS USED.

- GAS/AIR MIXTURES MORE THAN THE LOWER EXPLOSIVE LIMIT (LEL) CAN CAUSE AN EXPLOSION IF HIGH HEAT, SPARKS, OR FLAMES SUPPLY IGNITION.
- USE IN AN AREA OPEN TO THE AIR.
- CLOSE THE CONTAINER WHEN NOT USED.
- DO NOT GET PETROLEUM AROMATIC NAPHTHA IN THE EYES, ON THE SKIN, OR ON YOUR CLOTHES.
- DO NOT BREATHE THE GAS.

EFFECTIVITY  
WJE ALL

# 33-43-01

TP-80MM-WJE

Page 803  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### (WARNING PRECEDES)

**WARNING:** REFER TO THE APPLICABLE MANUFACTURER'S OR SUPPLIER'S MSDS FOR:

- MORE PRECAUTIONARY DATA
- APPROVED SAFETY EQUIPMENT
- EMERGENCY MEDICAL AID.

TALK WITH THE LOCAL SAFETY DEPARTMENT OR AUTHORITIES FOR THE PROCEDURES TO DISCARD THESE HAZARDOUS AGENTS.

- (4) Clean faying surfaces with mild detergent and water solution followed by naphtha.
- (5) Let faying surface dry.
- (6) Mask surrounding polycarbonate by covering the surface to within 1/32 inch (0.8 mm) of bonding area with tape.

**WARNING:** REFER TO THE APPLICABLE MANUFACTURER'S OR SUPPLIER'S MSDS FOR:

- MORE PRECAUTIONARY DATA
- APPROVED SAFETY EQUIPMENT
- EMERGENCY MEDICAL AID.

TALK WITH THE LOCAL SAFETY DEPARTMENT OR AUTHORITIES FOR THE PROCEDURES TO DISCARD THIS HAZARDOUS AGENT.

- (7) Prepare Weld-On 40 acrylic epoxy cement for use per manufacturer's instructions.
- (8) Back up repair area with polyethylene tape.
- (9) Pour area full of mixed acrylic epoxy, allowing it to crest to prevent valley.
- (10) If bubbles appear, use pointed object to release air bubbles in epoxy.
- (11) Prior to removal of masking tape, dress crack, file flush to tape surface and prepare for buffing.
- (12) Remove tape and masking.

**WARNING:** LIQUID DETERGENT IS AN AGENT THAT IS AN IRRITANT. MAKE SURE ALL PERSONS OBEY THE PRECAUTIONS WHEN LIQUID DETERGENT IS USED.

- DO NOT USE IN AREAS WHERE THERE IS HIGH HEAT, SPARKS, OR FLAMES.
- USE IN AN AREA OPEN TO THE AIR.
- CLOSE THE CONTAINER WHEN NOT USED.
- DO NOT GET LIQUID DETERGENT IN THE EYES, ON THE SKIN, OR ON YOUR CLOTHES.
- DO NOT BREATHE THE GAS.

**WARNING:** REFER TO THE APPLICABLE MANUFACTURER'S OR SUPPLIER'S MSDS FOR:

- MORE PRECAUTIONARY DATA
- APPROVED SAFETY EQUIPMENT
- EMERGENCY MEDICAL AID.

TALK WITH THE LOCAL SAFETY DEPARTMENT OR AUTHORITIES FOR THE PROCEDURES TO DISCARD THIS HAZARDOUS AGENT.

- (13) Wash with mild detergent and water solution.
- (14) Sand repaired area surface with progressively finer grit sandpaper 320-400-600 to desired finish (use rubber backed wheel).

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

# 33-43-01

Page 804  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

- (15) Smooth to equal blend of surrounding area.
- (16) Locate and drill ten fastener holes .305/.315 in. dia. to match original fastener locations.  
NOTE: Do not drill two previous forward (one upper and one lower) and two previous aft (one upper and one lower) hole locations. Do not countersink fastener holes.

**WARNING:** POLISHING COMPOUND IS AN AGENT THAT IS AN IRRITANT. MAKE SURE ALL PERSONS OBEY THE PRECAUTIONS WHEN POLISHING COMPOUND IS USED.

- DO NOT USE IN AREAS WHERE THERE IS HIGH HEAT, SPARKS, OR FLAMES.
- USE IN AN AREA OPEN TO THE AIR.
- CLOSE THE CONTAINER WHEN NOT USED.
- DO NOT GET POLISHING COMPOUND IN THE EYES, ON THE SKIN, OR ON YOUR CLOTHES.
- DO NOT BREATHE THE GAS.

**WARNING:** REFER TO THE APPLICABLE MANUFACTURER'S OR SUPPLIER'S MSDS FOR:

- MORE PRECAUTIONARY DATA
- APPROVED SAFETY EQUIPMENT
- EMERGENCY MEDICAL AID.

TALK WITH THE LOCAL SAFETY DEPARTMENT OR AUTHORITIES FOR THE PROCEDURES TO DISCARD THIS HAZARDOUS AGENT.

- (17) Wax and polish entire lens.
  - (18) Check finish.
  - (19) Protect for stock.
  - (20) Tag and place in container for stock.
- C. Repair Forward Position Light Lens - Surface Area
- (1) Route out crazed and crack area. Maximum area to be replaced 16 square inches (103.23 cm<sup>2</sup>).
  - (2) Fabricate polycarbonate plug 0.25 inch (6.4 mm) thick, approximate gap of 1/8 to 3/16 inch (3.2 to 4.8 mm).
  - (3) Smooth rework area and plug by sanding to eliminate chips and rough surface.
  - (4) Rough up faying surfaces with 320 grit wet-or-dry paper.

**WARNING:** LIQUID DETERGENT IS AN AGENT THAT IS AN IRRITANT. MAKE SURE ALL PERSONS OBEY THE PRECAUTIONS WHEN LIQUID DETERGENT IS USED.

- DO NOT USE IN AREAS WHERE THERE IS HIGH HEAT, SPARKS, OR FLAMES.
- USE IN AN AREA OPEN TO THE AIR.
- CLOSE THE CONTAINER WHEN NOT USED.
- DO NOT GET LIQUID DETERGENT IN THE EYES, ON THE SKIN, OR ON YOUR CLOTHES.
- DO NOT BREATHE THE GAS.

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

# 33-43-01

Page 805  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### (WARNING PRECEDES)

**WARNING:** PETROLEUM AROMATIC NAPHTHA IS AN AGENT THAT IS FLAMMABLE, POISONOUS, AND AN IRRITANT. MAKE SURE ALL PERSONS OBEY ALL OF THE PRECAUTIONS WHEN PETROLEUM AROMATIC NAPHTHA IS USED.

- GAS/AIR MIXTURES MORE THAN THE LOWER EXPLOSIVE LIMIT (LEL) CAN CAUSE AN EXPLOSION IF HIGH HEAT, SPARKS, OR FLAMES SUPPLY IGNITION.
- USE IN AN AREA OPEN TO THE AIR.
- CLOSE THE CONTAINER WHEN NOT USED.
- DO NOT GET PETROLEUM AROMATIC NAPHTHA IN THE EYES, ON THE SKIN, OR ON YOUR CLOTHES.
- DO NOT BREATHE THE GAS.

**WARNING:** REFER TO THE APPLICABLE MANUFACTURER'S OR SUPPLIER'S MSDS FOR:

- MORE PRECAUTIONARY DATA
- APPROVED SAFETY EQUIPMENT
- EMERGENCY MEDICAL AID.

TALK WITH THE LOCAL SAFETY DEPARTMENT OR AUTHORITIES FOR THE PROCEDURES TO DISCARD THESE HAZARDOUS AGENTS.

- (5) Clean faying surfaces with mild detergent and water solution followed by naphtha.
- (6) Let faying surface dry.
- (7) Mask surrounding polycarbonate by covering surface to within 1/32 inch (0.8 mm) of bonding area with tape.

**WARNING:** LIQUID EPOXY RESIN IS AN AGENT THAT IS POISONOUS AND AN IRRITANT. MAKE SURE ALL PERSONS OBEY THE PRECAUTIONS WHEN LIQUID EPOXY RESIN IS USED.

- DO NOT USE IN AREAS WHERE THERE IS HIGH HEAT, SPARKS, OR FLAMES.
- USE IN AN AREA OPEN TO THE AIR.
- CLOSE THE CONTAINER WHEN NOT USED.
- DO NOT GET LIQUID EPOXY RESIN IN THE EYES, ON THE SKIN, OR ON YOUR CLOTHES.
- DO NOT BREATHE THE GAS.

**WARNING:** REFER TO THE APPLICABLE MANUFACTURER'S OR SUPPLIER'S MSDS FOR:

- MORE PRECAUTIONARY DATA
- APPROVED SAFETY EQUIPMENT
- EMERGENCY MEDICAL AID.

TALK WITH THE LOCAL SAFETY DEPARTMENT OR AUTHORITIES FOR THE PROCEDURES TO DISCARD THIS HAZARDOUS AGENT.

- (8) Prepare Weld-On 40 acrylic epoxy for use per manufacturer's instructions.
- (9) Back up repair area with polyethylene tape.
- (10) Pour repair periphery full of mixed Weld-On 40, allowing it to crest to prevent valley.
- (11) If bubbles appear, use pointed object to release air bubbles in acrylic epoxy.

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

# 33-43-01

Page 806  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

- (12) Prior to removal of masking tape, dress periphery, file flush with tape and prepare for buffing.
- (13) Remove tape and masking.

**WARNING:** LIQUID DETERGENT IS AN AGENT THAT IS AN IRRITANT. MAKE SURE ALL PERSONS OBEY THE PRECAUTIONS WHEN LIQUID DETERGENT IS USED.

- DO NOT USE IN AREAS WHERE THERE IS HIGH HEAT, SPARKS, OR FLAMES.
- USE IN AN AREA OPEN TO THE AIR.
- CLOSE THE CONTAINER WHEN NOT USED.
- DO NOT GET LIQUID DETERGENT IN THE EYES, ON THE SKIN, OR ON YOUR CLOTHES.
- DO NOT BREATHE THE GAS.

**WARNING:** REFER TO THE APPLICABLE MANUFACTURER'S OR SUPPLIER'S MSDS FOR:

- MORE PRECAUTIONARY DATA
- APPROVED SAFETY EQUIPMENT
- EMERGENCY MEDICAL AID.

TALK WITH THE LOCAL SAFETY DEPARTMENT OR AUTHORITIES FOR THE PROCEDURES TO DISCARD THIS HAZARDOUS AGENT.

- (14) Wash with mild detergent and water solution.
- (15) Sand repaired area surface with progressive finer grit sandpaper 320-400-600 to desired finish (use rubber backed wheel).
- (16) Smooth to equal blend of surrounding area.

**WARNING:** POLISHING COMPOUND IS AN AGENT THAT IS AN IRRITANT. MAKE SURE ALL PERSONS OBEY THE PRECAUTIONS WHEN POLISHING COMPOUND IS USED.

- DO NOT USE IN AREAS WHERE THERE IS HIGH HEAT, SPARKS, OR FLAMES.
- USE IN AN AREA OPEN TO THE AIR.
- CLOSE THE CONTAINER WHEN NOT USED.
- DO NOT GET POLISHING COMPOUND IN THE EYES, ON THE SKIN, OR ON YOUR CLOTHES.
- DO NOT BREATHE THE GAS.

**WARNING:** REFER TO THE APPLICABLE MANUFACTURER'S OR SUPPLIER'S MSDS FOR:

- MORE PRECAUTIONARY DATA
- APPROVED SAFETY EQUIPMENT
- EMERGENCY MEDICAL AID.

TALK WITH THE LOCAL SAFETY DEPARTMENT OR AUTHORITIES FOR THE PROCEDURES TO DISCARD THIS HAZARDOUS AGENT.

- (17) Wax and polish entire lens.
- (18) Check finish.
- (19) Protect for stock.
- (20) Tag and place in container for stock.

### D. Repair Forward Position Light Lens - Hot Spot (Above Lamp) Surface Area

- (1) Clamp lens cover to drill press table.

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

# 33-43-01

Page 807  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

- (2) Protect surface of lens cover from damage as required.
- (3) Drill slightly larger than 3/8 inch (9.5 mm) diameter pilot hole directly above lamp location.
- (4) Use hole cutter applied at 600 rpm with water-soap solution added during cutting operation.  
Cut 1 1/2" (38.1 mm) diameter section from lens cover.

**WARNING:** ISOPROPYL ALCOHOL IS AN AGENT THAT IS FLAMMABLE, EXPLOSIVE, POISONOUS, AND AN IRRITANT. MAKE SURE ALL PERSONS OBEY ALL OF THE PRECAUTIONS WHEN ISOPROPYL ALCOHOL IS USED.

- GAS/AIR MIXTURES MORE THAN THE LOWER EXPLOSIVE LIMIT (LEL) CAN CAUSE AN EXPLOSION IF HIGH HEAT, SPARKS, OR FLAMES SUPPLY IGNITION.
- USE IN AN AREA OPEN TO THE AIR.
- CLOSE THE CONTAINER WHEN NOT USED.
- DO NOT GET ISOPROPYL ALCOHOL IN THE EYES, ON THE SKIN, OR ON YOUR CLOTHES.
- DO NOT BREATHE THE GAS.

**WARNING:** REFER TO THE APPLICABLE MANUFACTURER'S OR SUPPLIER'S MSDS FOR:

- MORE PRECAUTIONARY DATA
- APPROVED SAFETY EQUIPMENT
- EMERGENCY MEDICAL AID.

TALK WITH THE LOCAL SAFETY DEPARTMENT OR AUTHORITIES FOR THE PROCEDURES TO DISCARD THIS HAZARDOUS AGENT.

- (5) Sand edges of lens cover cutout with 320 grit sandpaper and clean with isopropyl alcohol.
- (6) Clean edge of high temperature Pyrex glass plug with isopropyl alcohol.
- (7) Clamp lens cover to table.
- (8) Protect surface of lens from damage as required.
- (9) Apply RTV 732-1 clear silicone adhesive to edges of lens cutout and glass plug.
- (10) Place plug into opening.
- (11) Allow adhesive to cure overnight (approximately 16 hours).

EFFECTIVITY  
WJE ALL

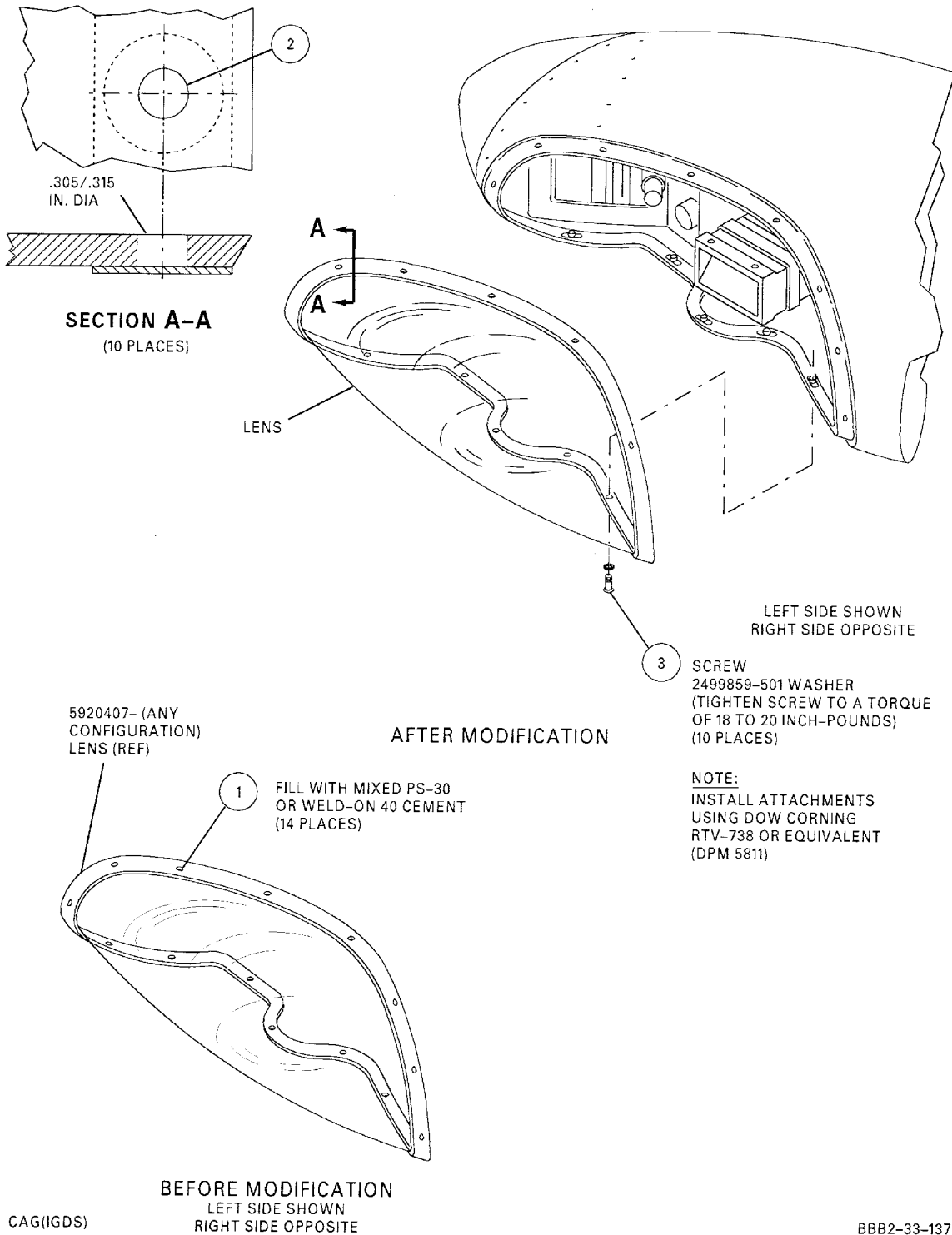
TP-80MM-WJE

# 33-43-01

Page 808  
Feb 01/2015



**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



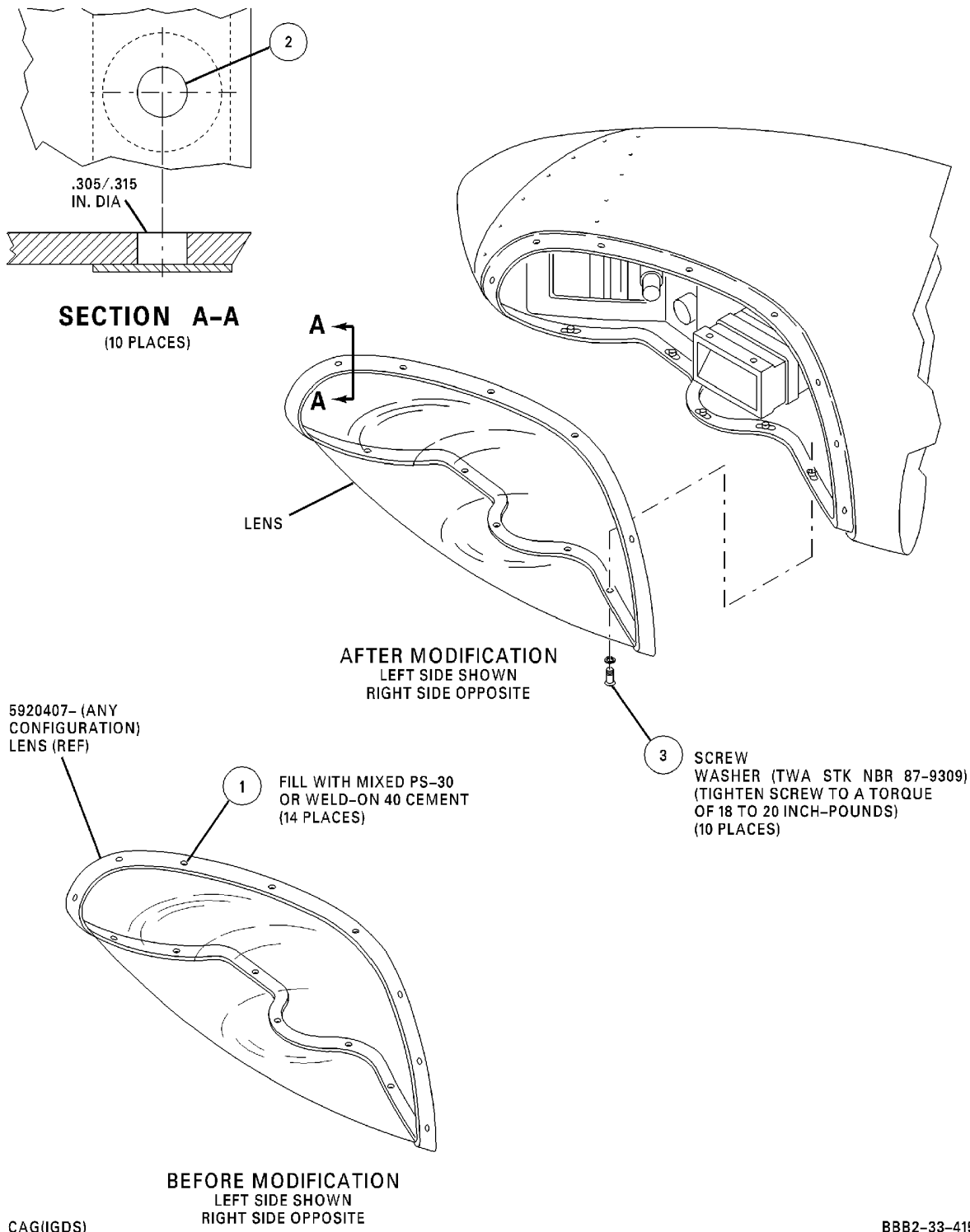
**Forward Position Lights -- Repair  
Figure 801/33-43-01-990-801**

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

**33-43-01**

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



**Forward Position Lights -- Repair**  
**Figure 802/33-43-01-990-802**

EFFECTIVITY  
WJE ALL

**33-43-01**

TP-80MM-WJE

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### 4. Repair - Forward Position Light Lens - Polishing Procedure

#### A. General Guidelines

**WARNING:** LIQUID DETERGENT IS AN AGENT THAT IS AN IRRITANT. MAKE SURE ALL PERSONS OBEY THE PRECAUTIONS WHEN LIQUID DETERGENT IS USED.

- DO NOT USE IN AREAS WHERE THERE IS HIGH HEAT, SPARKS, OR FLAMES.
- USE IN AN AREA OPEN TO THE AIR.
- CLOSE THE CONTAINER WHEN NOT USED.
- DO NOT GET LIQUID DETERGENT IN THE EYES, ON THE SKIN, OR ON YOUR CLOTHES.
- DO NOT BREATHE THE GAS.

**WARNING:** REFER TO THE APPLICABLE MANUFACTURER'S OR SUPPLIER'S MSDS FOR:

- MORE PRECAUTIONARY DATA
- APPROVED SAFETY EQUIPMENT
- EMERGENCY MEDICAL AID.

TALK WITH THE LOCAL SAFETY DEPARTMENT OR AUTHORITIES FOR THE PROCEDURES TO DISCARD THIS HAZARDOUS AGENT.

- (1) Clean lens with mild detergent and water solution before starting polishing operation.
- (2) Protect surfaces of lens outside of area being polished.
- (3) Use straight line sanding motion. Alternate at right angles to provide cross sanding pattern.
- (4) Use light pressure to avoid clogging of sanding medium.
- (5) Reduce pressure toward completion of each sanding step.
- (6) Work slightly larger area with each sanding pattern.
- (7) Wipe lens clean with damp cloth after each polishing operation to remove loose grit.

#### B. Refurbishing Procedure - Phase I

**NOTE:** The procedure used is dependent upon the severity of crazing/scratching damage.

Reference paragraph 3.B. for heavy crazing and paragraph 3.C. for light to moderate crazing.

- (1) For initial sanding use carborundum paper (320 grit minimum) or cushioned cloth wrapped around hard felt or rubber block.
- (2) Sand area using light pressure.
- (3) Slight amount of mild detergent and water solution may be used as lubricant to reduce drag and avoid clogging when using finer grades.
- (4) Use straight line sanding motion and alternate strokes at right angles with subsequent finer grits.
- (5) If initial sanding includes abrasive paper, use progressively finer grades, eg. 320, 400, 500 and 600. Do not skip grade.
- (6) Always remove each previous grit sanding pattern.
- (7) Gradually lighten pressure towards completion of each operation and work slightly larger area with each sanding step.

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

**33-43-01**

Page 811  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### C. Refurbishing Procedure - Phase II

**NOTE:** Dependent upon severity of damage operator may wish to proceed to Phase II refurbishment if warranted. Phase II is basically a finish sanding procedure for light to moderate crazing damage.

- (1) Final finish sand using cushioned abrasive cloth (Micro-Mesh typical) until preceding scratch pattern is removed.
- (2) Use progressively finer grade cloth, eg. 1800, 2400, 3200, 3600, 4000, 6000 and 8000. Do not skip grade.

**WARNING:** LIQUID DETERGENT IS AN AGENT THAT IS AN IRRITANT. MAKE SURE ALL PERSONS OBEY THE PRECAUTIONS WHEN LIQUID DETERGENT IS USED.

- DO NOT USE IN AREAS WHERE THERE IS HIGH HEAT, SPARKS, OR FLAMES.
- USE IN AN AREA OPEN TO THE AIR.
- CLOSE THE CONTAINER WHEN NOT USED.
- DO NOT GET LIQUID DETERGENT IN THE EYES, ON THE SKIN, OR ON YOUR CLOTHES.
- DO NOT BREATHE THE GAS.

**WARNING:** REFER TO THE APPLICABLE MANUFACTURER'S OR SUPPLIER'S MSDS FOR:

- MORE PRECAUTIONARY DATA
- APPROVED SAFETY EQUIPMENT
- EMERGENCY MEDICAL AID.

TALK WITH THE LOCAL SAFETY DEPARTMENT OR AUTHORITIES FOR THE PROCEDURES TO DISCARD THIS HAZARDOUS AGENT.

- (3) Slight amount of mild detergent and water solution may be used as lubricant to reduce drag and avoid clogging when using finer grades.
- (4) Cerox SR-XII (cerium oxide polish) or No. 720 (aluminium oxide polish) may be used to remove the 8000 grit pattern for final sanding operation.
- (5) Oxide polishing compounds are applied with outing flannel cloth (Wamco 101C).
- (6) Rinse lens with clean water and dry with clean dry cloth.

**WARNING:** POLISHING COMPOUND IS AN AGENT THAT IS AN IRRITANT. MAKE SURE ALL PERSONS OBEY THE PRECAUTIONS WHEN POLISHING COMPOUND IS USED.

- DO NOT USE IN AREAS WHERE THERE IS HIGH HEAT, SPARKS, OR FLAMES.
- USE IN AN AREA OPEN TO THE AIR.
- CLOSE THE CONTAINER WHEN NOT USED.
- DO NOT GET POLISHING COMPOUND IN THE EYES, ON THE SKIN, OR ON YOUR CLOTHES.
- DO NOT BREATHE THE GAS.

**WARNING:** REFER TO THE APPLICABLE MANUFACTURER'S OR SUPPLIER'S MSDS FOR:

- MORE PRECAUTIONARY DATA
- APPROVED SAFETY EQUIPMENT
- EMERGENCY MEDICAL AID.

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

# 33-43-01

Page 812  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### (WARNING PRECEDES)

TALK WITH THE LOCAL SAFETY DEPARTMENT OR AUTHORITIES FOR THE PROCEDURES TO DISCARD THIS HAZARDOUS AGENT.

- (7) Apply wax and buff to high luster.

### 5. Repair - Forward Position Light Lens Edge Retainer - Bonding Procedure

#### A. Bonding Procedure

#### WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893

- (1) Remove the forward position light lens. (FORWARD AND AFT POSITION LIGHTS - MAINTENANCE PRACTICES, PAGEBLOCK 33-43-01/201 Config 1)

#### WJE 412, 414

- (2) Remove the forward position light lens. (FORWARD AND AFT POSITION LIGHTS - MAINTENANCE PRACTICES, PAGEBLOCK 33-43-01/201 Config 3)

#### WJE ALL

- (3) Apply masking tape to the areas of the lens that will not be bonded to the edge retainer.
- (4) Use 36-grit sand paper to remove gloss from the area of the lens that will be bonded to the edge retainer.
- (5) Use 80-grit emory cloth to finish the area that was sanded.

**WARNING:** USE THE HAZARDOUS MATERIAL WARNINGS GIVEN BELOW FOR THE STEPS THAT FOLLOW.

THE HAZARDOUS MATERIAL WARNINGS ARE LISTED AFTER THE INTRODUCTION SECTION IN THE FRONT OF THE AMM.

Hazardous Material Warnings

HAZMAT 1118, SOLVENT/DRY CLEANING (DPM 518)

HAZMAT 1000, REFER TO MSDS

- (6) Clean the area with cleaning wipers and cleaning solvent.

**WARNING:** USE THE HAZARDOUS MATERIAL WARNINGS GIVEN BELOW FOR THE STEPS THAT FOLLOW.

THE HAZARDOUS MATERIAL WARNINGS ARE LISTED AFTER THE INTRODUCTION SECTION IN THE FRONT OF THE AMM.

Hazardous Material Warnings

HAZMAT 1030, ISOPROPYL ALCOHOL (DPM 530)

HAZMAT 1000, REFER TO MSDS

- (7) Clean the area with isopropyl alcohol.

**WARNING:** USE THE HAZARDOUS MATERIAL WARNINGS GIVEN BELOW FOR THE STEPS THAT FOLLOW.

THE HAZARDOUS MATERIAL WARNINGS ARE LISTED AFTER THE INTRODUCTION SECTION IN THE FRONT OF THE AMM.

Hazardous Material Warnings

HAZMAT 1773, WELD-ON 28 (3-COMPONENT KIT)

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

# 33-43-01

Page 813  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### (WARNING PRECEDES)

HAZMAT 1000, REFER TO MSDS

- (8) Mix the cement per the manufacturer instructions.
- (9) Use a clean brush to apply the cement to the faying surfaces of the lens and retainer.  
NOTE: The parts must be bonded within 10 minutes after the cement was applied.
- (10) Carefully align the retainer fastener tabs with the cutouts in the lens and attach the retainer to the lens.
- (11) Install spring clamps along the length of the retainer to apply uniform pressure while the lens and retainer bond.  
NOTE: The clamps must remain in position for a minimum of three hours.
- (12) If necessary, use a squeegee to remove excess cement. Leave a small fillet of cement along the edge of the retainer.
- (13) After the cement has cured for a minimum of three hours, remove the clamps and masking tape.

### **WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893**

- (14) Install the forward position light lens. (FORWARD AND AFT POSITION LIGHTS - MAINTENANCE PRACTICES, PAGEBLOCK 33-43-01/201 Config 1)

### **WJE 412, 414**

- (15) Install the forward position light lens. (FORWARD AND AFT POSITION LIGHTS - MAINTENANCE PRACTICES, PAGEBLOCK 33-43-01/201 Config 3)

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

# 33-43-01

Page 814  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### POSITION LIGHT TRANSFORMERS - MAINTENANCE PRACTICES

**1. General**

- A. There is one wing position lights transformer located in each wingtip. The removal and installation procedures for the position lights transformers are identical for both the left and the right wing.

**2. Removal/Installation Position Lights Transformer**

- A. Remove Transformer

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

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

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-437	POSITION LIGHTS

- (2) Gain access to transformer by removing wingtip access panel.  
 (3) Remove attaching screws from transformer.  
 (4) Disconnect electrical wiring.  
 (5) Remove transformer.

- B. Install Transformer

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

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

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-437	POSITION LIGHTS

- (2) Connect electrical wiring.  
 (3) Position transformer in wingtip and secure with attaching screws.  
 (4) Install wingtip access panel.  
 (5) Remove the safety tag and close this circuit breaker:

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-437	POSITION LIGHTS

EFFECTIVITY WJE ALL	
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33-43-02

## MD-80 AIRCRAFT MAINTENANCE MANUAL

**WARNING:** NORMAL ELECTRICAL POWER SUPPLY TO VARIOUS SYSTEMS ARE INTERRUPTED WHEN GROUND CONTROL RELAY CIRCUIT BREAKERS ARE CLOSED. MAKE CERTAIN THAT SWITCHES AND CONTROLS OF AFFECTED SYSTEMS ARE IN CORRECT POSITIONS TO PREVENT INADVERTENT OPERATION OR SHUTDOWN OF EQUIPMENT.

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

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

**UPPER EPC, L AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 417, 419, 421, 423, 865, 869, 871, 872</b>			
K	30	B1-23	LEFT GROUND CONTROL RELAY
<b>WJE 401-412, 414-416, 418, 420, 422, 424-427, 429, 861-864, 866, 868, 873-881, 883, 884, 886, 887, 891-893</b>			
K	33	B1-23	LEFT GROUND CONTROL RELAY

**WJE ALL**

**WARNING:** DO NOT LOOK DIRECTLY AT FLASHING STROBE LIGHT FROM CLOSE RANGE. LIGHT FLASHES MAY CAUSE MOMENTARY VISION IMPAIRMENT.

- (7) Place POS/STROBE lights switch in BOTH position to check proper operation of circuit.  
 (8) Remove the safety tags and close these circuit breakers:

**UPPER EPC, L AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 417, 419, 421, 423, 865, 869, 871, 872</b>			
K	30	B1-23	LEFT GROUND CONTROL RELAY
<b>WJE 401-412, 414-416, 418, 420, 422, 424-427, 429, 861-864, 866, 868, 873-881, 883, 884, 886, 887, 891-893</b>			
K	33	B1-23	LEFT GROUND CONTROL RELAY

**WJE ALL**

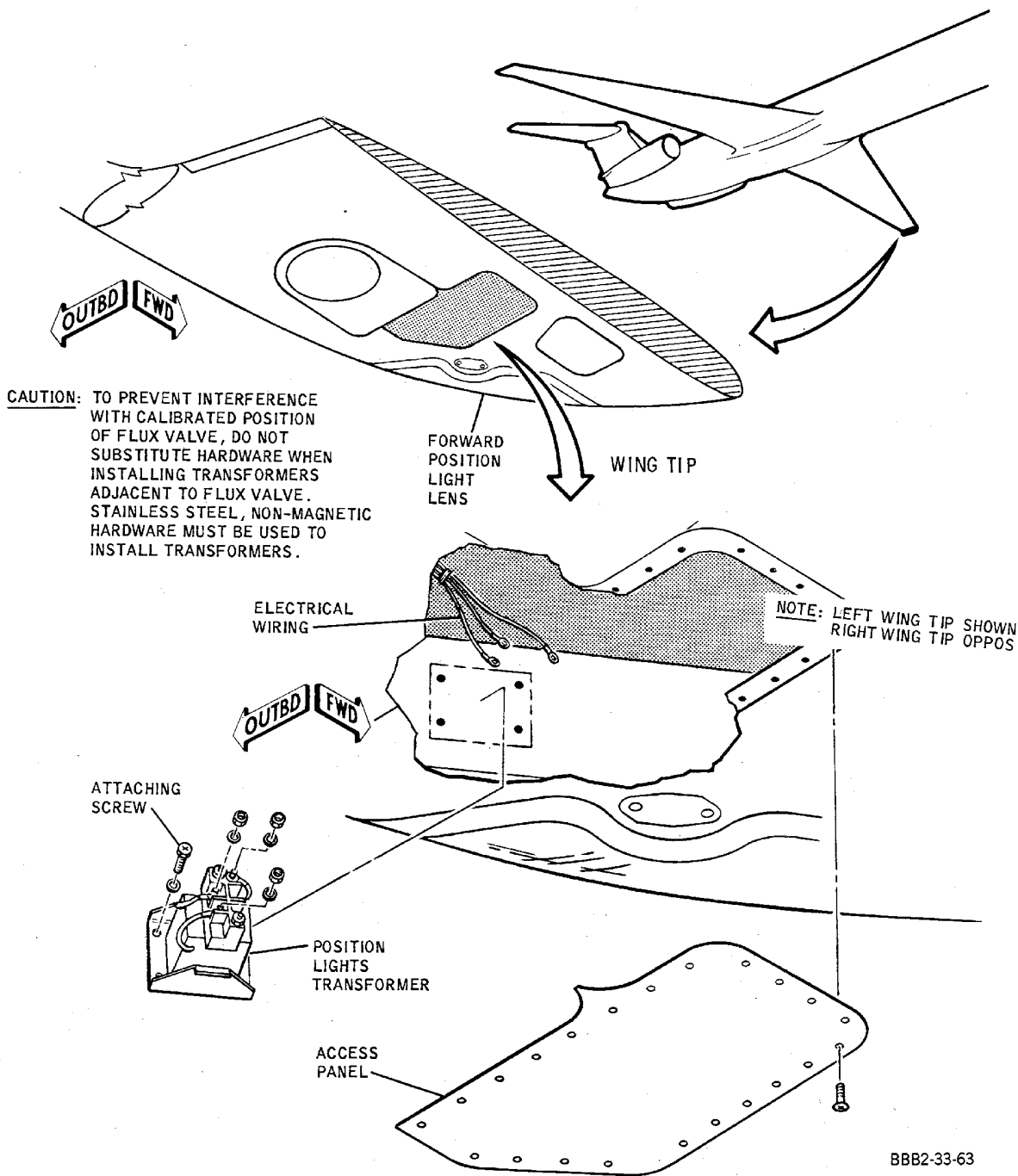
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 WJE ALL

**33-43-02**

TP-80MM-WJE



**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



BBB2-33-63

**Position Lights Transformer -- Removal/Installation  
Figure 201/33-43-02-990-804**

EFFECTIVITY  
WJE ALL

**33-43-02**

TP-80MM-WJE

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### FORWARD POSITION LIGHTS ASSEMBLY - REMOVAL/INSTALLATION

**1. General**

A. This section provides removal/installation procedures for the forward position lights assembly. The forward position lights assembly is located on the right and left wing tips.

**2. Equipment and Materials**

NOTE: Equivalent substitutes may be used instead of the following listed items:

**Table 401**

Name and Number	Manufacturer
Soap	
Non abrasive soft cloth	

**3. Removal/Installation Forward Position Lights Assembly**

**WJE ALL PRE MD80-33-112**

A. Remove Forward Position Lights Assembly. (Figure 401)

**WARNING:** TAG AND SAFETY CIRCUIT BREAKER.

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

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-437	POSITION LIGHTS

- (2) Remove lamp access panel.
- (3) Remove forward position light lens.
- (4) Remove terminal block cover from socket support bracket.
- (5) Remove nuts, lockwashers, and washers that attach electrical wires. Disconnect electrical wires attached to forward position lights assembly. Identify wires for later installation.
- (6) Remove lamps from lamp holders.
- (7) Remove lamp holders.
- (8) Remove wing nuts from forward position light assembly.
- (9) Remove bolts and washers from the hinge on forward position lights assembly.
- (10) Remove forward position lights assembly.

**WJE ALL POST MD80-33-112**

B. Remove Forward Position Lights Assembly (Figure 402 )

**WARNING:** TAG AND SAFETY CIRCUIT BREAKER.

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

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-437	POSITION LIGHTS

- (2) Remove lamp access panel.
- (3) Remove forward position light lens.

EFFECTIVITY WJE ALL
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**33-43-02**

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### WJE ALL POST MD80-33-112 (Continued)

- (4) Disconnect electrical wires attached to forward position lights assembly. Identify wires for later installation.
- (5) Remove lamps from lamp holders.
- (6) Remove spring and contact assembly with wire going through lamp holder and light subassembly. Identify wire for later installation.
- (7) Remove lamp holder and washer with screws (socket head cap) from light subassembly.
- (8) Remove bolts (1) with nuts and washers from base of light subassembly and support bracket.
- (9) Remove wing nuts and retaining rings from light subassembly.
- (10) Remove light subassembly with circuit board assembly and terminal board attached.
- (11) If circuit board assembly is removed, do as follows:
  - (a) Disconnect wires if still attached to light subassembly. Tag wires for later installation.
  - (b) Remove nuts (2) and screws (2) with washers and spacers from circuit board assembly and light subassembly.
  - (c) Remove nuts (3) and screws (3) with washers from circuit board assembly and light subassembly.
  - (d) Remove nut (4) and screw (4) with washers and nut attached from light subassembly.
  - (e) Remove circuit board assembly.
- (12) If terminal board is to be removed, do as follows:
  - (a) Remove nuts (5) and screws (5) with washers from terminal board.
  - (b) Remove terminal board.

### WJE ALL PRE MD80-33-112

- C. Install Forward Position Lights Assembly (Figure 401)

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

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

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-437	POSITION LIGHTS

- (2) Place forward position lights assembly on support brackets.
- (3) Install bolts and washers to hinge and support bracket.
- (4) Install wing nuts to support bracket and forward position lights assembly.
- (5) Install lamp holder with screws.
- (6) Install lamp assembly with new lamp if original was burnt out.
- (7) Connect electrical wires in locations identified. Install nuts, lockwashers, and washers to hold electrical wires.
- (8) Install terminal block.
- (9) Clean forward position light lens with soap and water.
- (10) Install forward position light lens.

EFFECTIVITY  
WJE ALL

**33-43-02**

TP-80MM-WJE

Page 402  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### WJE ALL PRE MD80-33-112 (Continued)

- (11) Install lamp access panel.

### WJE ALL POST MD80-33-112

- D. Install Forward Position Lights Assembly. (Figure 402)

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

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

**LEFT CONSOLE, GROUND SERVICE BUS**

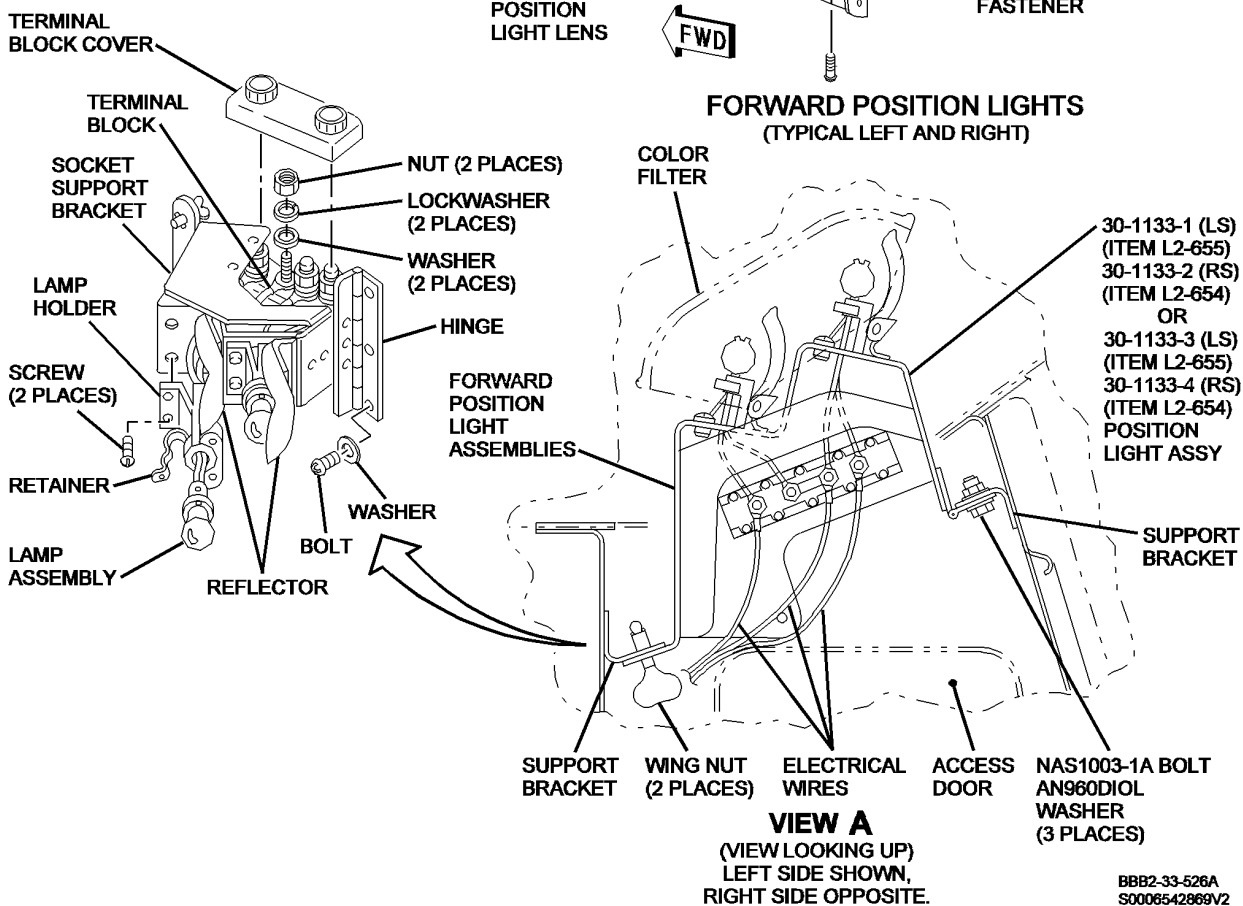
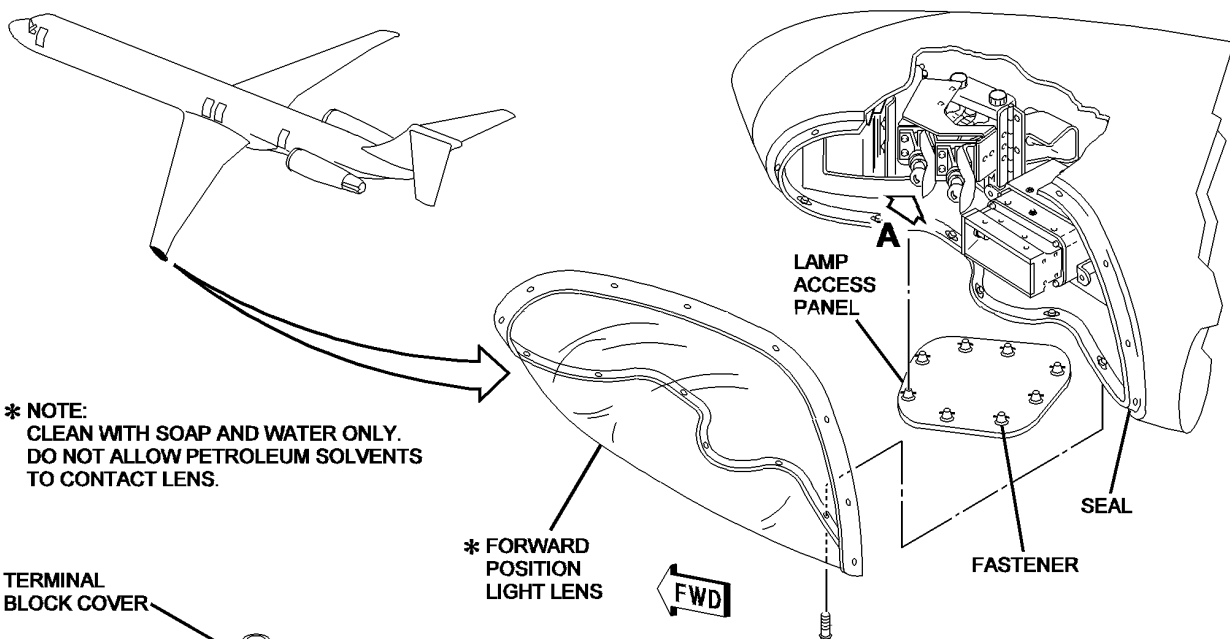
<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-437	POSITION LIGHTS

- (2) If terminal board is to be installed, do as follows:
  - (a) Place terminal board on light subassembly.
  - (b) Install nuts (5) and screws (5) with washers.
- (3) If circuit board assembly is replaced/installed, do as follows:
  - (a) Circuit board is supplied with all wires attached. To replace, cut existing wires from lamps at splices and remove attaching hardware.
  - (b) Install new circuit board, replacing Sil-pads and shoulder washers.
  - (c) Install nut (4) and screw (4) with washers and nut attached to light subassembly.
  - (d) Install nuts (3) and screws (3) with washers on circuit board assembly and light subassembly.
  - (e) Install nuts (2) and screws (2) with washers and spacers on circuit board assembly and light subassembly.
  - (f) Route wires upper lamp to LP1 on circuit board. (Figure 403)
  - (g) Splice wires and seal with shrink tube.
  - (h) Secure wires with cable ties provided.
- (4) Install light sub-assembly with circuit board assembly and terminal board attached on support bracket.
- (5) Install bolts (1) with nuts and washers on light sub-assembly and support bracket.
- (6) Install wing nuts and retaining rings on light subassembly and support bracket.
- (7) Install lamp holders and washers to light subassembly.
- (8) Install spring and contact assembly with wire going through lamp holder and light subassembly to where attached previously or as identified.
- (9) Install lamp.
- (10) Connect electrical wires attached to forward position lights assembly as identified.
- (11) Clean forward position light lens with soap and water.
- (12) Install forward position light lens.
- (13) Install lamp access panel.

EFFECTIVITY
WJE ALL

**33-43-02**

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



**Forward Position Lights Assembly - Removal/Installation**  
Figure 401/33-43-02-990-801

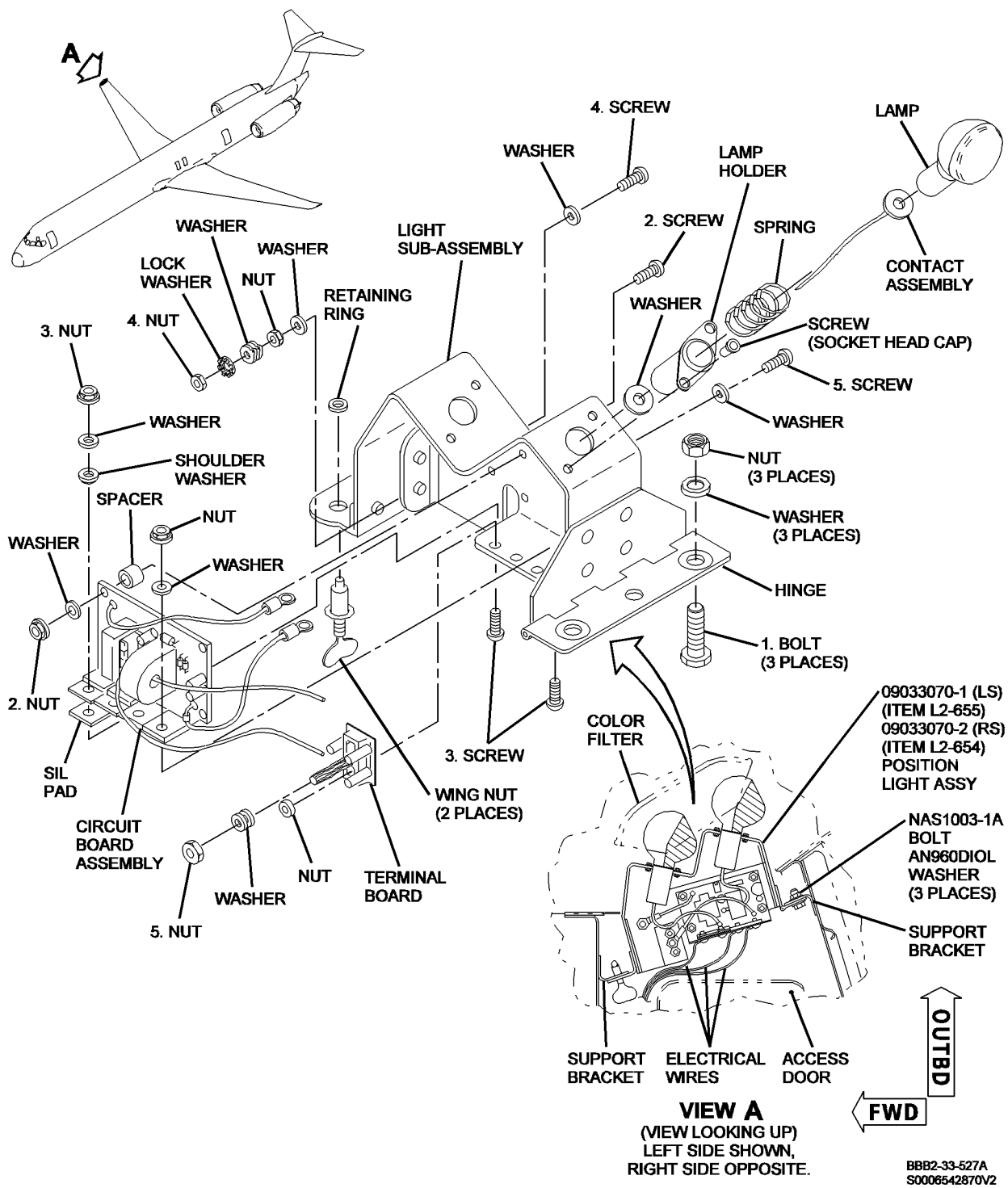
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**33-43-02**

TP-80MM-WJE

Page 404  
Feb 01/2015

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



**Forward Position Lights Assembly - Removal/Installation**  
**Figure 402/33-43-02-990-802**

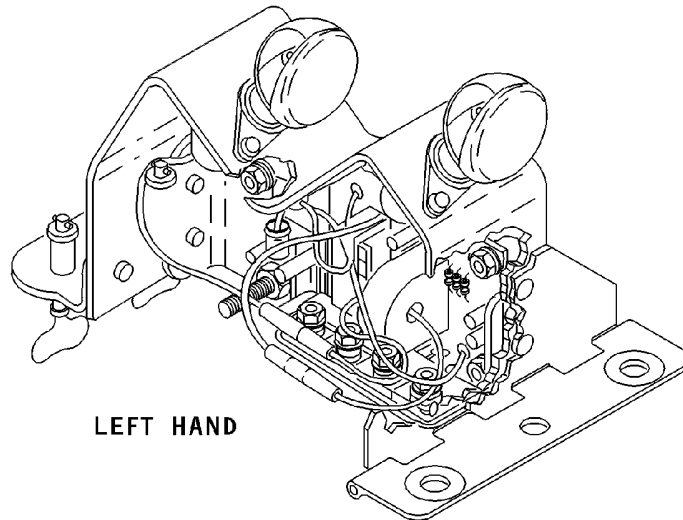
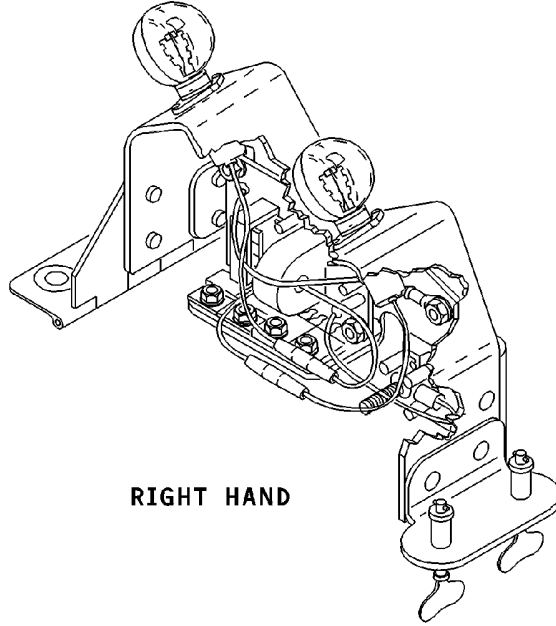
EFFECTIVITY  
WJE ALL POST MD80-33-112

**33-43-02**

TP-80MM-WJE

Page 405  
Feb 01/2015

# MD-80 AIRCRAFT MAINTENANCE MANUAL



CAG(IGDS)

BBB2-33-528

**Wire - Installation**  
**Figure 403/33-43-02-990-803**

EFFECTIVITY  
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TP-80MM-WJE

## 33-43-02

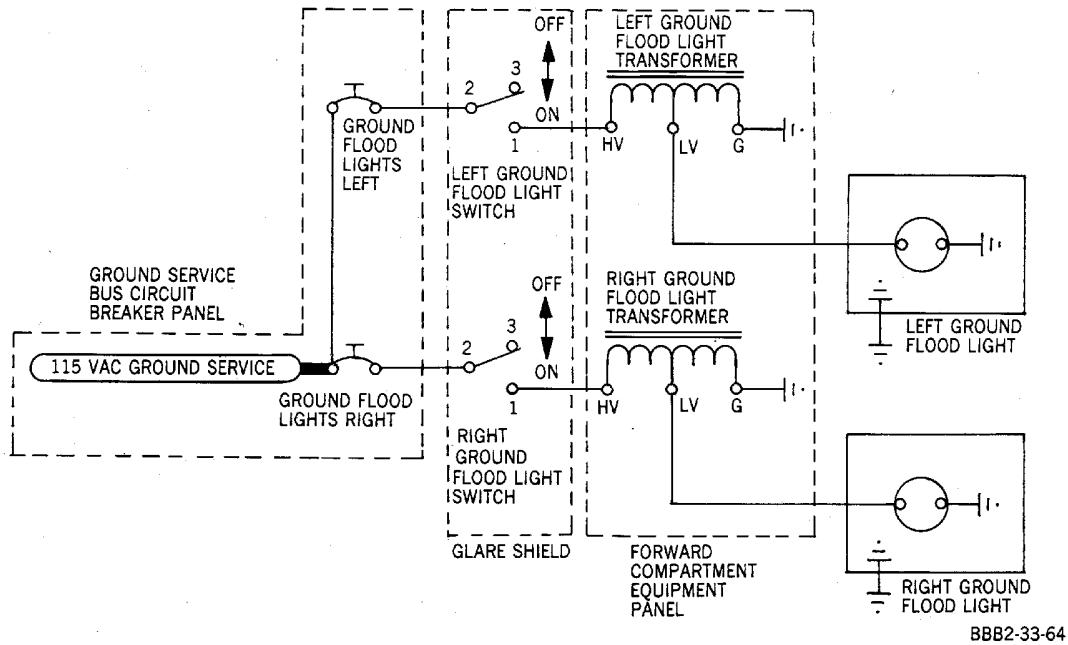
Page 406  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### GROUND FLOODLIGHTS - DESCRIPTION AND OPERATION

**1. General**

- A. The ground floodlights provide area lighting for ground service and aid side visibility while taxiing.
- B. The ground floodlights consist of two 450-watt fixed position lights installed in the left and right sides of the fuselage forward of the wings. Individual control of the lights is provided by switches located on the glareshield.



**Ground Floodlights -- Simplified Schematic  
Figure 1/33-44-00-990-805**

EFFECTIVITY  
WJE ALL

**33-44-00**

TP-80MM-WJE

Page 1  
Feb 01/2015



# MD-80 AIRCRAFT MAINTENANCE MANUAL

## GROUND FLOODLIGHTS - MAINTENANCE PRACTICES

### 1. General

**WARNING:** A CRACKED OR BROKEN GROUND FLOODLIGHT LENS SHOULD BE REPLACED AS SOON AS POSSIBLE. HEAT GENERATED BY GROUND FLOODLIGHT WITH CRACKED OR BROKEN LENS CAN CREATE A FIRE HAZARD IF LIGHT IS INADVERTENTLY TURNED ON DURING FUELING OPERATIONS.

- A. The following procedures are given for removing the left or right ground floodlight lamp, dome, or feed through. The ground floodlight lens refracts the light beam forward at the proper angle for taxiing and care must be taken to insure that the lens is not installed in reverse. An arrow on the lens retainer indicates the proper direction of installation.

### 2. Equipment and Materials

**NOTE:** Equivalent substitutes may be used in place of the following listed items:

**NOTE:** It is possible that some materials in the Equipment and Materials List cannot be used for some or all of their necessary applications. Before you use the materials, make sure the types, quantities, and applications of the materials necessary are legally permitted in your location. All persons must obey all applicable federal, state, local, and provincial laws and regulations when it is necessary to work with these materials.

**Table 201**

Name and Number	Manufacturer
Sealant, silicone 90-006 DPM 5697	Dow Corning Midland, MI
Catalyst, 90-006-1 DPM 5697	Dow Corning Midland, MI
Cleaner, Hand Wipe; Brulin MP 1793, DPM 6380-1	Brulin & Company, Inc. Richmond, CA (2)
Cleaner, Hand Wipe; EPA 2000, DPM 6380-2 or Cleaner/Solvent, hand wipe, bulk, DPM 6380-4	DPM 6380-2 is superseded by DPM 6380-4, however the DPM 6380-2 can be used until supplies are depleted. Contec, Inc., Spartanburg, SC
Cleaner, Hand Wipe; PF Degreaser, DPM 6380-3	P-T Technologies, Inc. Safety Harbor, FL (2)
Primer, RTV-1200 DPM 3202	Dow Corning Midland, MI
<b><u>NOTE:</u></b> For proper curing, mix sealant and accelerator slowly until an even color is obtained. After mixing, sealant must be applied within 2 to 6 hours. Curing time is 24 hours.	

### 3. Removal/Installation Ground Floodlights

- A. Remove Lamp

EFFECTIVITY <b>WJE ALL</b>	
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33-44-00

## MD-80 AIRCRAFT MAINTENANCE MANUAL

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

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

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-17	LEFT GROUND FLOOD LIGHT
		B1-18	RIGHT GROUND FLOOD LIGHT

- (2) Remove lens attaching screws and lens.  
 (3) Remove lamp retainer attaching screws, lamp retainer, and spacers.

**WJE ALL POST DC9-33-100**

NOTE: Remove gasket instead of spacers.

**WJE ALL**

- (4) Disconnect electrical wiring and remove lamp.

B. Install Lamp

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Make sure that these circuit breakers are open and have safety tags:

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-17	LEFT GROUND FLOOD LIGHT
		B1-18	RIGHT GROUND FLOOD LIGHT

- (2) Connect electrical wiring to lamp.  
 (3) Position lamp on mounting ring and install lamp retainer and spacers.  
 (a) On aircraft with SB 33-100 incorporated, place lamp on mounting ring and install lamp retainer.  
 (4) Install lens with arrow on retainer pointing forward.  
 (5) Remove the safety tags and close these circuit breakers:

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-17	LEFT GROUND FLOOD LIGHT
		B1-18	RIGHT GROUND FLOOD LIGHT

- (6) Actuate ground floodlights switches to check proper operation of lights.

C. Remove Dome

- (1) Remove lamp (Paragraph 3.A.).

EFFECTIVITY  
**WJE ALL**

**33-44-00**

TP-80MM-WJE

## MD-80 AIRCRAFT MAINTENANCE MANUAL

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

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

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-17	LEFT GROUND FLOOD LIGHT
		B1-18	RIGHT GROUND FLOOD LIGHT

- (3) Gain access to back of dome by removing cargo compartment lining in area of ground floodlight.
- (4) Disconnect electrical wiring from dome.
- (5) Remove attaching rivets and dome.

D. Install Dome

- (1) Remove old sealant from faying surfaces of dome and fuselage panel.

**WARNING:** HANDWIPE CLEANER IS AN AGENT THAT IS FLAMMABLE, A SENSITIZER, AN ASPHYXIANT, AND AN IRRITANT. MAKE SURE ALL PERSONS OBEY THE PRECAUTIONS WHEN HANDWIPE CLEANER IS USED.

- DO NOT USE IN AREAS WHERE THERE IS HIGH HEAT, SPARKS, OR FLAMES.
- USE IN AN AREA OPEN TO THE AIR.
- CLOSE THE CONTAINER WHEN NOT USED.
- DO NOT GET HANDWIPE CLEANER IN THE EYES, ON THE SKIN, OR ON YOUR CLOTHES.
- DO NOT BREATHE THE GAS.

**WARNING:** HANDWIPE CLEANER IS AN AGENT THAT IS FLAMMABLE, A REDUCER, AN ASPHYXIANT, AND AN IRRITANT. MAKE SURE ALL PERSONS OBEY THE PRECAUTIONS WHEN HANDWIPE CLEANER IS USED.

- DO NOT USE IN AREAS WHERE THERE IS HIGH HEAT, SPARKS, OR FLAMES.
- USE IN AN AREA OPEN TO THE AIR.
- CLOSE THE CONTAINER WHEN NOT USED.
- DO NOT GET HANDWIPE CLEANER IN THE EYES, ON THE SKIN, OR ON YOUR CLOTHES.
- DO NOT BREATHE THE GAS.

**WARNING:** HANDWIPE CLEANER IS AN AGENT THAT IS FLAMMABLE, POISONOUS, A REDUCER, AN ASPHYXIANT, AND AN IRRITANT. MAKE SURE ALL PERSONS OBEY THE PRECAUTIONS WHEN HANDWIPE CLEANER IS USED.

- DO NOT USE IN AREAS WHERE THERE IS HIGH HEAT, SPARKS, OR FLAMES.
- USE IN AN AREA OPEN TO THE AIR.
- CLOSE THE CONTAINER WHEN NOT USED.
- DO NOT GET HANDWIPE CLEANER IN THE EYES, ON THE SKIN, OR ON YOUR CLOTHES.
- DO NOT BREATHE THE GAS.

EFFECTIVITY  
WJE ALL

**33-44-00**

TP-80MM-WJE

Page 203  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### (WARNING PRECEDES)

**WARNING:** HANDWIPE CLEANER/SOLVENT IS AN AGENT THAT IS FLAMMABLE AND AN IRRITANT. MAKE SURE ALL PERSONS OBEY THE PRECAUTIONS WHEN HANDWIPE CLEANER/SOLVENT IS USED.

- DO NOT USE IN AREAS WHERE THERE IS HIGH HEAT, SPARKS, OR FLAMES.
- USE IN AN AREA OPEN TO THE AIR.
- CLOSE THE CONTAINER WHEN NOT USED.
- DO NOT GET HANDWIPE CLEANER/SOLVENT IN THE EYES, ON THE SKIN, OR ON YOUR CLOTHES.
- DO NOT BREATHE THE GAS.

**WARNING:** REFER TO THE APPLICABLE MANUFACTURER'S OR SUPPLIER'S MSDS FOR:

- MORE PRECAUTIONARY DATA
- APPROVED SAFETY EQUIPMENT
- EMERGENCY MEDICAL AID.

TALK WITH THE LOCAL SAFETY DEPARTMENT OR AUTHORITIES FOR THE PROCEDURES TO DISCARD THESE HAZARDOUS AGENTS.

(2) Clean faying surfaces with hand wipe cleaner.

**WARNING:** SILICONE PRIMER IS AN AGENT THAT IS FLAMMABLE, POISONOUS, AND AN IRRITANT. MAKE SURE ALL PERSONS OBEY THE PRECAUTIONS LISTED BELOW WHEN SILICONE PRIMER IS USED.

- DO NOT USE IN AREAS WHERE THERE IS HIGH HEAT, SPARKS, OR FLAMES.
- USE IN AN AREA OPEN TO THE AIR.
- CLOSE THE CONTAINER WHEN NOT USED.
- DO NOT GET SILICONE PRIMER IN THE EYES, ON THE SKIN, OR ON YOUR CLOTHES.
- DO NOT BREATHE THE GAS.

**WARNING:** REFER TO THE APPLICABLE MANUFACTURER'S OR SUPPLIER'S MSDS FOR:

- MORE PRECAUTIONARY DATA
- APPROVED SAFETY EQUIPMENT
- EMERGENCY MEDICAL AID.

TALK WITH THE LOCAL SAFETY DEPARTMENT OR AUTHORITIES FOR THE PROCEDURES TO DISCARD THIS HAZARDOUS AGENT.

(3) Apply RTV-1200 primer to faying surfaces and allow to dry for 30 minutes.

**WARNING:** SILICONE SEALANT IS AN AGENT THAT IS A LOW HAZARD. MAKE SURE ALL PERSONS OBEY THE PRECAUTIONS WHEN SILICONE SEALANT IS USED.

- USE IN AN AREA OPEN TO THE AIR.
- CLOSE THE CONTAINER WHEN NOT USED.

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

**33-44-00**

Page 204  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

**(WARNING PRECEDES)**

**WARNING:** REFER TO THE APPLICABLE MANUFACTURER'S OR SUPPLIER'S MSDS FOR:

- MORE PRECAUTIONARY DATA
- APPROVED SAFETY EQUIPMENT
- EMERGENCY MEDICAL AID.

TALK WITH THE LOCAL SAFETY DEPARTMENT OR AUTHORITIES FOR THE PROCEDURES TO DISCARD THIS HAZARDOUS AGENT.

- (4) Apply silicone sealant (90-006) over one entire faying surface until uniform thickness of approximately 1/64 inch (0.397 mm) is obtained.

**NOTE:** All air bubbles should be worked out to obtain a quality seal.

- (5) Position dome on fuselage panel and install attaching rivets.  
 (6) Fair extruded sealant.

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (7) Make sure that these circuit breakers are open and have safety tags:

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-17	LEFT GROUND FLOOD LIGHT
		B1-18	RIGHT GROUND FLOOD LIGHT

- (8) Connect electrical wiring to outside of dome.  
 (9) Install cargo compartment lining.  
 (10) Install lamp (Paragraph 3.B.).  
 (11) Remove the safety tags and close these circuit breakers:

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-17	LEFT GROUND FLOOD LIGHT
		B1-18	RIGHT GROUND FLOOD LIGHT

**E. Remove Feed Through**

- (1) Remove lamp (Paragraph 3.A.).

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

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

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-17	LEFT GROUND FLOOD LIGHT
		B1-18	RIGHT GROUND FLOOD LIGHT

- (3) Remove nuts, washers, and electrical wiring from terminal stud on inside of dome.  
 (4) Gain access to back of dome by removing cargo compartment lining in area of ground floodlight.

EFFECTIVITY	
WJE ALL	

**33-44-00**

## MD-80 AIRCRAFT MAINTENANCE MANUAL

- (5) Remove terminal stud from feed through.
- (6) Remove attaching rivets from feed through.
- (7) Remove feed through.

### F. Install Feed Through

- (1) Remove old sealant from surface of dome where feed through is to be installed.

**WARNING:** HANDWIPE CLEANER IS AN AGENT THAT IS FLAMMABLE, A SENSITIZER, AN ASPHYXIANT, AND AN IRRITANT. MAKE SURE ALL PERSONS OBEY THE PRECAUTIONS WHEN HANDWIPE CLEANER IS USED.

- DO NOT USE IN AREAS WHERE THERE IS HIGH HEAT, SPARKS, OR FLAMES.
- USE IN AN AREA OPEN TO THE AIR.
- CLOSE THE CONTAINER WHEN NOT USED.
- DO NOT GET HANDWIPE CLEANER IN THE EYES, ON THE SKIN, OR ON YOUR CLOTHES.
- DO NOT BREATHE THE GAS.

**WARNING:** HANDWIPE CLEANER IS AN AGENT THAT IS FLAMMABLE, A REDUCER, AN ASPHYXIANT, AND AN IRRITANT. MAKE SURE ALL PERSONS OBEY THE PRECAUTIONS WHEN HANDWIPE CLEANER IS USED.

- DO NOT USE IN AREAS WHERE THERE IS HIGH HEAT, SPARKS, OR FLAMES.
- USE IN AN AREA OPEN TO THE AIR.
- CLOSE THE CONTAINER WHEN NOT USED.
- DO NOT GET HANDWIPE CLEANER IN THE EYES, ON THE SKIN, OR ON YOUR CLOTHES.
- DO NOT BREATHE THE GAS.

**WARNING:** HANDWIPE CLEANER IS AN AGENT THAT IS FLAMMABLE, POISONOUS, A REDUCER, AN ASPHYXIANT, AND AN IRRITANT. MAKE SURE ALL PERSONS OBEY THE PRECAUTIONS WHEN HANDWIPE CLEANER IS USED.

- DO NOT USE IN AREAS WHERE THERE IS HIGH HEAT, SPARKS, OR FLAMES.
- USE IN AN AREA OPEN TO THE AIR.
- CLOSE THE CONTAINER WHEN NOT USED.
- DO NOT GET HANDWIPE CLEANER IN THE EYES, ON THE SKIN, OR ON YOUR CLOTHES.
- DO NOT BREATHE THE GAS.

**WARNING:** HANDWIPE CLEANER/SOLVENT IS AN AGENT THAT IS FLAMMABLE AND AN IRRITANT. MAKE SURE ALL PERSONS OBEY THE PRECAUTIONS WHEN HANDWIPE CLEANER/SOLVENT IS USED.

- DO NOT USE IN AREAS WHERE THERE IS HIGH HEAT, SPARKS, OR FLAMES.
- USE IN AN AREA OPEN TO THE AIR.
- CLOSE THE CONTAINER WHEN NOT USED.
- DO NOT GET HANDWIPE CLEANER/SOLVENT IN THE EYES, ON THE SKIN, OR ON YOUR CLOTHES.
- DO NOT BREATHE THE GAS.

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

**33-44-00**

Page 206  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### (WARNING PRECEDES)

**WARNING:** REFER TO THE APPLICABLE MANUFACTURER'S OR SUPPLIER'S MSDS FOR:

- MORE PRECAUTIONARY DATA
- APPROVED SAFETY EQUIPMENT
- EMERGENCY MEDICAL AID.

TALK WITH THE LOCAL SAFETY DEPARTMENT OR AUTHORITIES FOR THE PROCEDURES TO DISCARD THESE HAZARDOUS AGENTS.

(2) Clean surface with hand wipe cleaner.

**WARNING:** SILICONE PRIMER IS AN AGENT THAT IS FLAMMABLE, POISONOUS, AND AN IRRITANT. MAKE SURE ALL PERSONS OBEY THE PRECAUTIONS LISTED BELOW WHEN SILICONE PRIMER IS USED.

- DO NOT USE IN AREAS WHERE THERE IS HIGH HEAT, SPARKS, OR FLAMES.
- USE IN AN AREA OPEN TO THE AIR.
- CLOSE THE CONTAINER WHEN NOT USED.
- DO NOT GET SILICONE PRIMER IN THE EYES, ON THE SKIN, OR ON YOUR CLOTHES.
- DO NOT BREATHE THE GAS.

**WARNING:** REFER TO THE APPLICABLE MANUFACTURER'S OR SUPPLIER'S MSDS FOR:

- MORE PRECAUTIONARY DATA
- APPROVED SAFETY EQUIPMENT
- EMERGENCY MEDICAL AID.

TALK WITH THE LOCAL SAFETY DEPARTMENT OR AUTHORITIES FOR THE PROCEDURES TO DISCARD THIS HAZARDOUS AGENT.

(3) Apply RTV-1200 primer to cleaned surface and allow to dry for 30 minutes.

(4) Position feed through on dome and install attaching rivets.

**WARNING:** SILICONE SEALANT IS AN AGENT THAT IS A LOW HAZARD. MAKE SURE ALL PERSONS OBEY THE PRECAUTIONS WHEN SILICONE SEALANT IS USED.

- USE IN AN AREA OPEN TO THE AIR.
- CLOSE THE CONTAINER WHEN NOT USED.

**WARNING:** REFER TO THE APPLICABLE MANUFACTURER'S OR SUPPLIER'S MSDS FOR:

- MORE PRECAUTIONARY DATA
- APPROVED SAFETY EQUIPMENT
- EMERGENCY MEDICAL AID.

TALK WITH THE LOCAL SAFETY DEPARTMENT OR AUTHORITIES FOR THE PROCEDURES TO DISCARD THIS HAZARDOUS AGENT.

(5) Apply fillet of silicone 90-006 sealant around the perimeter of feed through.

**NOTE:** All air bubbles should be worked out to obtain a quality seal.

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

**33-44-00**

Page 207  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (6) Make sure that these circuit breakers are open and have safety tags:

### LEFT CONSOLE, GROUND SERVICE BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-17	LEFT GROUND FLOOD LIGHT
		B1-18	RIGHT GROUND FLOOD LIGHT

- (7) Install terminal stud in feed through and connect electrical wiring.  
 (8) Install cargo compartment lining.  
 (9) Install nuts, washers, and electrical wiring on terminal stud on inside of dome.  
 (10) Install lamp (Paragraph 3.B.).  
 (11) Remove the safety tags and close these circuit breakers:

### LEFT CONSOLE, GROUND SERVICE BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-17	LEFT GROUND FLOOD LIGHT
		B1-18	RIGHT GROUND FLOOD LIGHT

#### 4. Adjustment/Test Ground Floodlights

##### A. Test Ground Floodlights

- (1) Place L FLOOD LTS GRD switch, located on glareshield, in ON position. Left floodlight should come on.
- (2) Place L FLOOD LTS GRD switch in OFF position. Left flood-light should go off.
- (3) Place R FLOOD LTS GRD switch in ON position. Right flood-light should come on.
- (4) Place R FLOOD LTS GRD switch in OFF position. Right flood-light should go off.

EFFECTIVITY  
WJE ALL

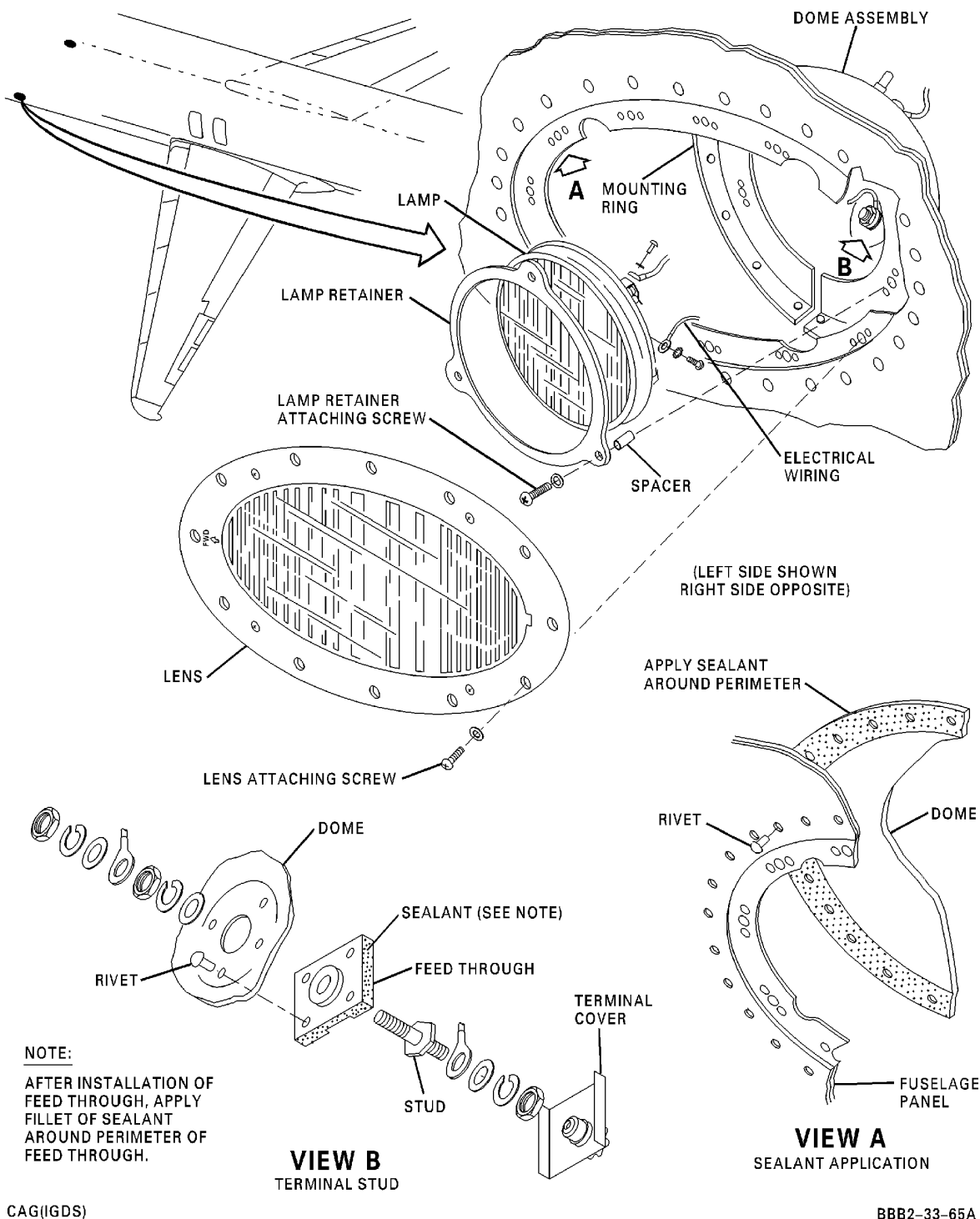
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**33-44-00**

Page 208  
Feb 01/2015



**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



CAG(IGDS)

BBB2-33-65A

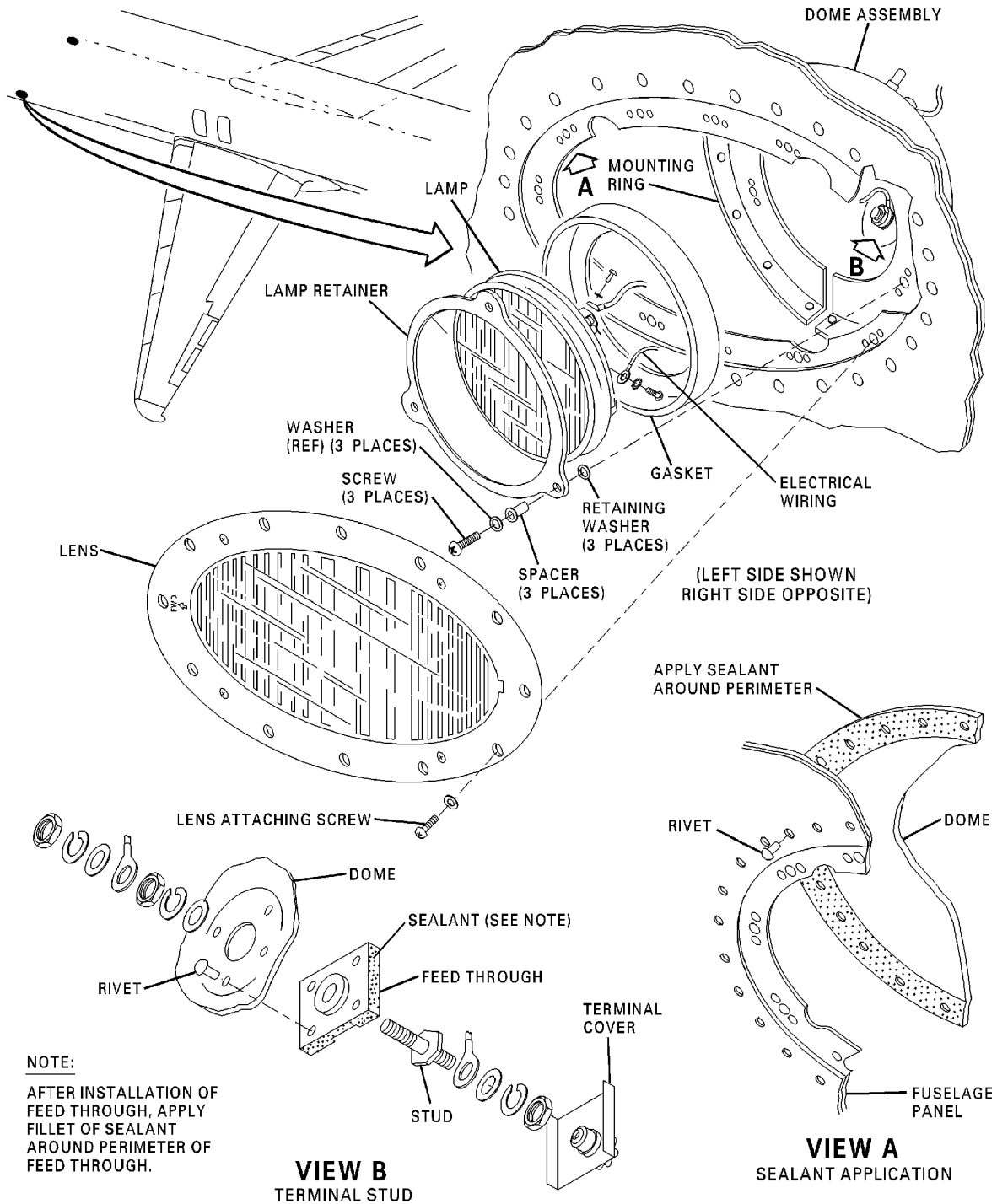
**Ground Floodlights -- Removal/Installation  
Figure 201/33-44-00-990-801**

EFFECTIVITY  
WJE ALL

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**33-44-00**

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



CAG(IGDS)

BBB2-33-455

**Ground Floodlights -- Removal/Installation  
Figure 202/33-44-00-990-803**

EFFECTIVITY  
WJE ALL POST DC9-33-100

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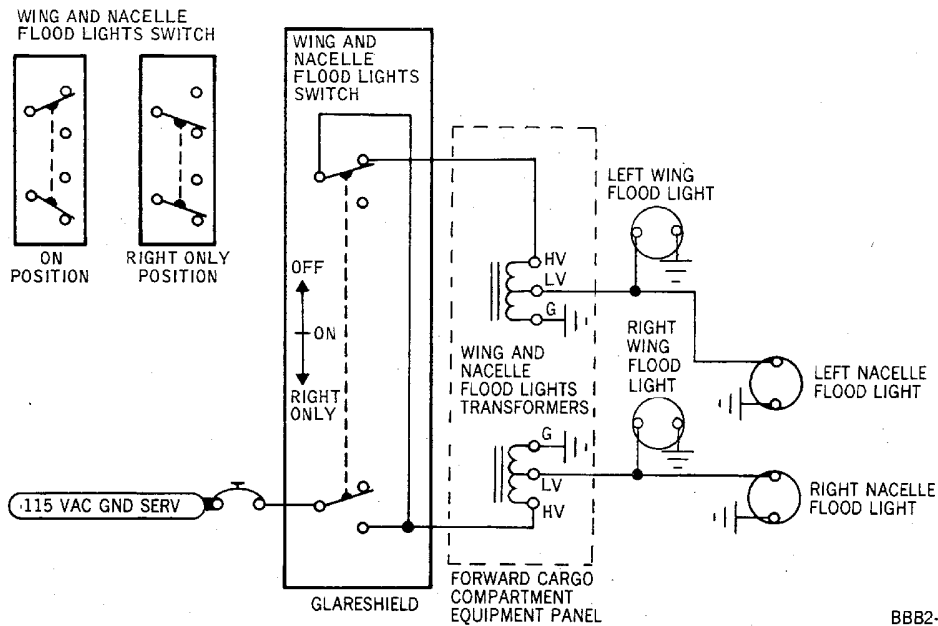
Page 210  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### WING AND NACELLE FLOOD LIGHTS - DESCRIPTION AND OPERATION

**1. General**

- A. The wing and nacelle flood lights are fixed position assemblies in each side of the fuselage and are used to visually check the engine nacelle and wing leading edge for icing conditions. The lights also have sufficient dispersion to facilitate ground fueling operations and to aid in taxiing.
- B. The wing flood lights are identical and consist of a housing, lamp, and lens. Power is supplied from the ground service bus, and voltage is reduced through a stepdown transformer.
- C. The nacelle flood lights are identical and consist of a housing, incandescent lamp, and lens. Power is supplied from the ground service bus, and voltage is reduced through a stepdown transformer.
- D. A 3-position switch, located on the glareshield panel, controls the flood lights. The switch has an ON and OFF position and R ONLY for fueling purposes.



BBB2-33-66

**Wing and Nacelle Scanning Lights -- Simplified Schematic  
Figure 1/33-45-00-990-801**

EFFECTIVITY  
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TP-80MM-WJE

**33-45-00**

Page 1  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### WING AND NACELLE FLOOD LIGHTS - REMOVAL/INSTALLATION

**1. General**

- A. The following procedure contains instructions for removing and installing the left and the right wing and nacelle flood lights.

**2. Removal/Installation Wing and Nacelle Flood Lights**

- A. Remove Lights

**WARNING:** TAG AND SAFETY CIRCUIT BREAKER.

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

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-21	WING & NACELLE FLOOD LIGHTS

- (2) Remove lens.  
 (3) Remove lamp retainer.  
 (4) Pull lamp out to gain access to electrical wiring.  
 (5) Disconnect electrical wiring and remove lamp.

- B. Install Lights

**WARNING:** TAG AND SAFETY CIRCUIT BREAKER.

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

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-21	WING & NACELLE FLOOD LIGHTS

- (2) Connect electrical wiring to lamp.  
 (3) Position lamp and retainer in lamp housing and install attaching screws.  
 (4) Position lens on housing and install attaching screws.  
 (5) Remove the safety tag and close this circuit breaker:

**LEFT CONSOLE, GROUND SERVICE BUS**

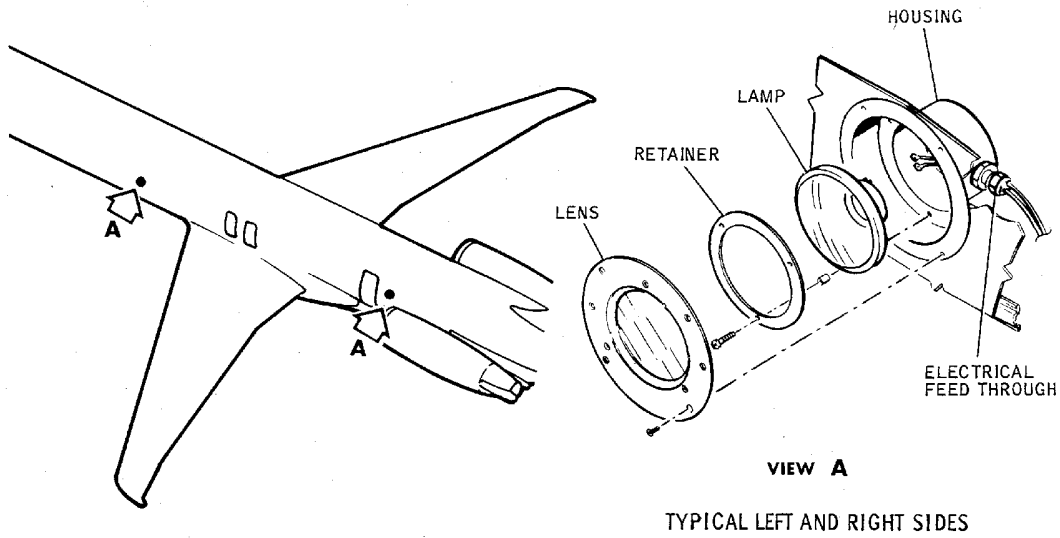
<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-21	WING & NACELLE FLOOD LIGHTS

EFFECTIVITY  
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**33-45-00**

# MD-80 AIRCRAFT MAINTENANCE MANUAL



BBB2-33-67

**Wing and Nacelle Flood Lights -- Removal/Installation**  
**Figure 401/33-45-00-990-802**

EFFECTIVITY  
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**33-45-00**

Page 402  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### WING AND NACELLE FLOODLIGHTS - ADJUSTMENT/TEST

#### 1. General

A. The following procedures provide an operational test of the wing and nacelle scanning lights circuit.

#### 2. Adjustment/Test Wing and Nacelle Floodlights

A. Wing and Nacelle Floodlights - Operational Test

- (1) Place WING/NACL switch, located on glareshield, in ON position.
- (2) Check that left and right wing and nacelle floodlights come on.
- (3) Place switch in R ONLY position.
- (4) Check that left lights go off and right lights remain on.
- (5) Place switch to OFF position. Lights should go off.

EFFECTIVITY  
WJE ALL

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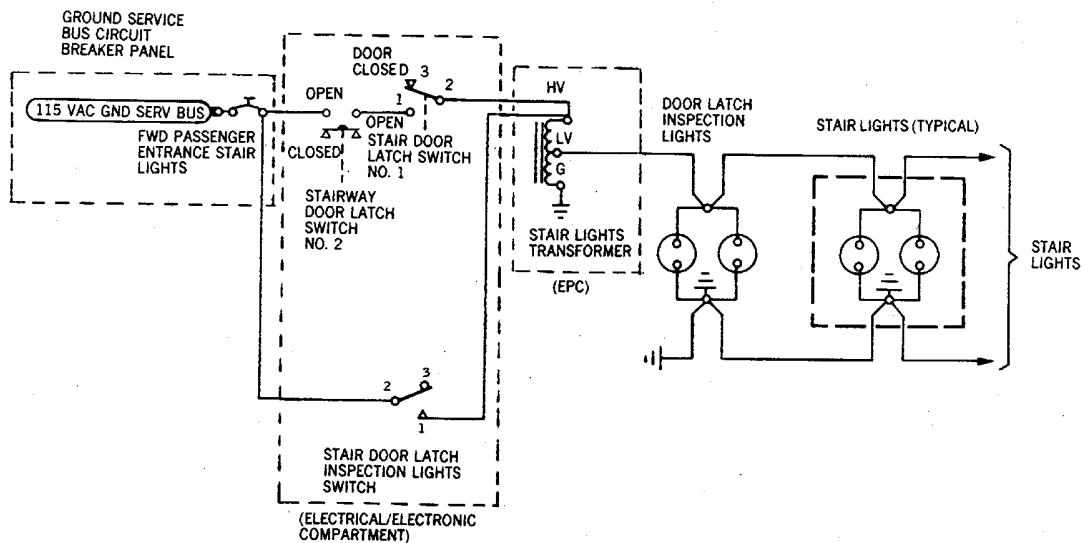
Page 501  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### PASSENGER FORWARD ENTRANCE DOOR STAIR LIGHTS - DESCRIPTION AND OPERATION

**1. General**

- A. The passenger forward entrance door stair lights are installed under each step of the stair to illuminate each preceding step.
- B. Each passenger forward entrance door stair light consists of two incandescent lamps in a housing, and a reflector to give adequate distribution of light. Power is supplied by the ground service ac bus, and voltage is reduced through a step-down transformer.
- C. The lights are controlled by switches that are actuated by the stair well door latches.



BBB2-33-68

**Passenger Forward Entrance Door Stair Lights -- Simplified Schematic  
Figure 1/33-46-00-990-801**

EFFECTIVITY  
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**33-46-00**

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### PASSENGER FORWARD ENTRANCE DOOR STAIR LIGHTS - MAINTENANCE PRACTICES

#### 1. Removal/Installation Passenger Forward Entrance Door Stair Lights

##### A. Remove Lights

**WARNING:** TAG AND SAFETY CIRCUIT BREAKER.

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

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-168	FWD PASS ENTRANCE STAIR LTS

- (2) With stairs extended loosen fasteners and remove cover from light. (GENERAL, SUBJECT 52-00-00)
- (3) Remove lamp(s).
- (4) Disconnect electrical wire.
- (5) Remove attachments and remove light housing from stair.

##### B. Install Lights

**WARNING:** TAG AND SAFETY CIRCUIT BREAKER.

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

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-168	FWD PASS ENTRANCE STAIR LTS

- (2) Position light housing on stair. Secure with attachments.
- (3) Connect electrical wiring.
- (4) Install lamp(s).
- (5) Position cover on light housing. Secure with fasteners.
- (6) Remove the safety tag and close this circuit breaker:

**LEFT CONSOLE, GROUND SERVICE BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
		B1-168	FWD PASS ENTRANCE STAIR LTS

- (7) Extend stairs to check proper operation of lights.

EFFECTIVITY  
WJE ALL

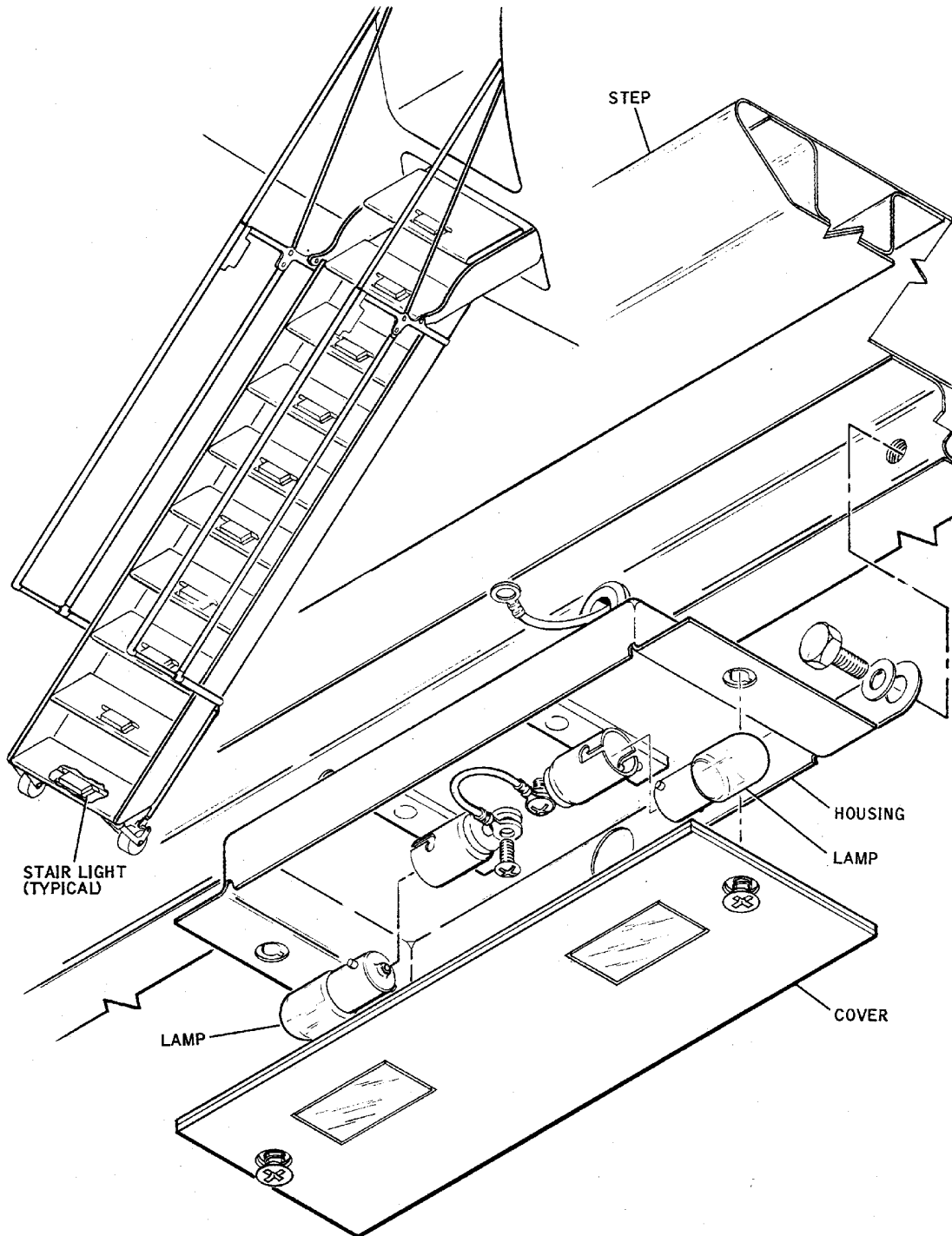
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# 33-46-00

Page 201  
Feb 01/2015



# MD-80 AIRCRAFT MAINTENANCE MANUAL



FORWARD PASSENGER DOOR STAIR LIGHT

BBB2-33-69

Passenger Forward Entrance Door Stair Lights - Removal/Installation  
Figure 201/33-46-00-990-802

EFFECTIVITY  
WJE ALL

**33-46-00**

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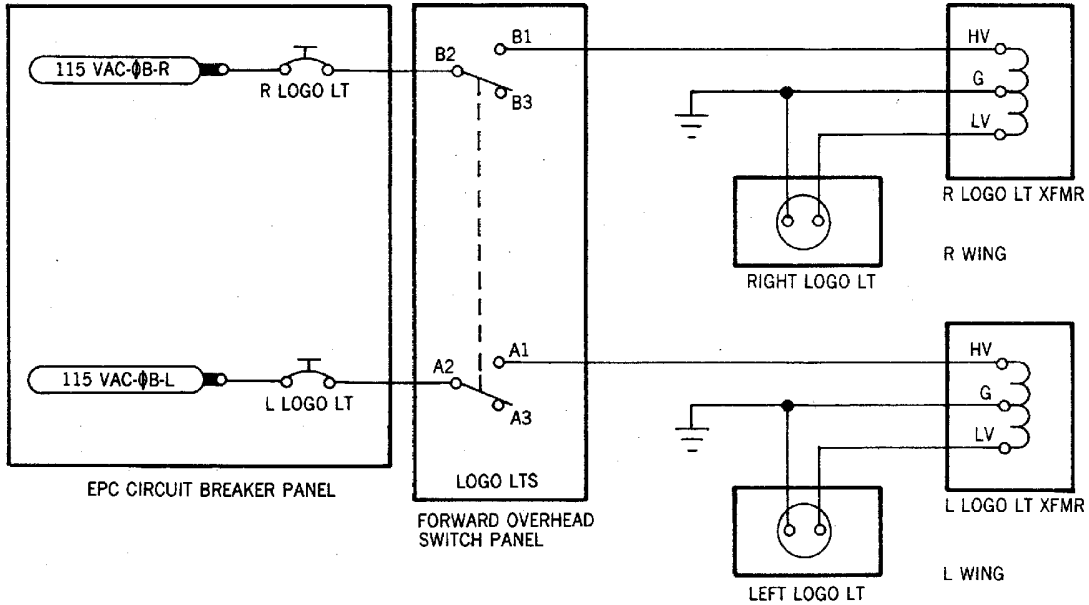
Page 202  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### LOGO LIGHTS - DESCRIPTION AND OPERATION

**1. General**

- A. The logo lights are sealed beam units installed in the aft edge of both wing tips to provide illumination for the airplane insignia. The units are covered with a louver assembly.
- B. The logo lights receive electrical power from the 115 vac bus through a step-down transformer that is also installed in the wing tip forward of the light. The lights are controlled by a single switch located on the overhead switch panel.



BBB2-33-81

**Logo Lights - Simplified Schematic  
Figure 1/33-47-00-990-801**

**EFFECTIVITY**

WJE 401-412, 414-427, 429, 861-866, 868, 869, 871, 872, 875-881, 883, 884, 886, 887, 891

TP-80MM-WJE

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# 33-47-00

**MD-80**  
**AIRCRAFT MAINTENANCE MANUAL**  
**LOGO LIGHTS - MAINTENANCE PRACTICES**

**1. General**

A. The following procedures are given for removal and installation of logo light and transformer and adjusting logo light.

**2. Equipment and Materials**

NOTE: Equivalent substitutes may be used instead of the following listed items:

NOTE: It is possible that some materials in the Equipment and Materials List cannot be used for some or all of their necessary applications. Before you use the materials, make sure the types, quantities, and applications of the materials necessary are legally permitted in your location. All persons must obey all applicable federal, state, local, and provincial laws and regulations when it is necessary to work with these materials.

**Table 201**

Name and Number	Manufacturer
SRD-859 Tag - Electrical Wire	
<b>WJE 401-411, 415-427, 429, 861-866, 868, 869, 871, 872, 875-881, 883, 884, 886, 887, 891</b>	
Antiseize compound/ high temperature MIL-A-907 DPM 377	Henkel Loctite Corp.
<b>WJE 412, 414</b>	
Antiseize compound/ high temperature G661	Norvgard Solutions
<b>WJE 401-411, 415-427, 429, 861-866, 868, 869, 871, 872, 875-881, 883, 884, 886, 887, 891</b>	
Silicone primer SS-4004 DPM 3202	General Electric
Silicone compound AS-8660 DPM 209	Dow Corning Corp. (DC-4)
<b>WJE 401-412, 414-427, 429, 861-866, 868, 869, 871, 872, 875-881, 883, 884, 886, 887, 891</b>	
STD-1181 Heat Protective Gloves	

**3. Removal/Installation Logo Lights**

A. Remove Logo Light (Figure 201)

(1) Push LOGO switchlight to OFF position on forward overhead panel.

<p style="text-align: center;">EFFECTIVITY</p> <p><b>WJE 401-412, 414-427, 429, 861-866, 868, 869, 871, 872, 875-881, 883, 884, 886, 887, 891</b></p>
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**33-47-00**

TP-80MM-WJE

## MD-80 AIRCRAFT MAINTENANCE MANUAL

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

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

**UPPER EPC, LIGHTS - LEFT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	24	B1-747	LEFT LOGO LIGHTS

**UPPER EPC, LIGHTS - RIGHT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
L	24	B1-746	RIGHT LOGO LIGHTS

**WJE 401-411, 415-427, 429, 861-866, 868, 869, 871, 872, 875-881, 883, 884, 886, 887, 891; Pre service letter MD-80-DL-33-102**

- (3) Remove louvre retaining screws and clips and remove louvre.

**WJE 401-411, 415-427, 429, 861-866, 868, 869, 871, 872, 875-881, 883, 884, 886, 887, 891**

- (4) Remove louvre retaining ring and remove louvre.

**WJE 412, 414**

- (5) Remove louvre retaining ring and remove louvre.

**WJE 401-412, 414-427, 429, 861-866, 868, 869, 871, 872, 875-881, 883, 884, 886, 887, 891**

- (6) Remove retaining ring, screw, clip, and louvre. Figure 201 (Sheet 3)

**WJE 401-412, 414-427, 429, 861-866, 868, 869, 871, 872, 875-881, 883, 884, 886, 887, 891; AIRCRAFT WITHOUT SERVICE LETTER MD-80-SL-33-102 INCORPORATED**

- (7) Remove lamp from housing shell.

**WJE 401-412, 414-427, 429, 861-866, 868, 869, 871, 872, 875-881, 883, 884, 886, 887, 891; AIRCRAFT WITH SERVICE LETTER MD-80-SL-33-102 INCORPORATED**

- (8) Remove lamp from housing shell as follows:

- (a) Insert phillips screwdriver through the 0.25 in. (6.35 mm) diameter hole in the housing shell.
- (b) Push the lamp out of the housing shell with the phillips screwdriver.

**WJE 401-412, 414-427, 429, 861-866, 868, 869, 871, 872, 875-881, 883, 884, 886, 887, 891**

- (9) Install wire tags, STD-859, and remove wires.
- (10) Remove gasket if damaged or deteriorated.

**B. Install Logo Light**

- (1) Make certain LOGO switchlight is in OFF position on forward overhead panel.
- (2) Make sure that the applicable circuit breaker is open and have safety tag:

**UPPER EPC, LIGHTS - LEFT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	24	B1-747	LEFT LOGO LIGHTS

**EFFECTIVITY**

**WJE 401-412, 414-427, 429, 861-866, 868, 869, 871, 872, 875-881, 883, 884, 886, 887, 891**

**33-47-00**

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### UPPER EPC, LIGHTS - RIGHT AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
L	24	B1-746	RIGHT LOGO LIGHTS

**WJE 401-411, 415-427, 429, 861-866, 868, 869, 871, 872, 875-881, 883, 884, 886, 887, 891**

**WARNING:** SILICONE PRIMER IS AN AGENT THAT IS FLAMMABLE, POISONOUS, AND AN IRRITANT. MAKE SURE ALL PERSONS OBEY THE PRECAUTIONS LISTED BELOW WHEN SILICONE PRIMER IS USED.

- DO NOT USE IN AREAS WHERE THERE IS HIGH HEAT, SPARKS, OR FLAMES.
- USE IN AN AREA OPEN TO THE AIR.
- CLOSE THE CONTAINER WHEN NOT USED.
- DO NOT GET SILICONE PRIMER IN THE EYES, ON THE SKIN, OR ON YOUR CLOTHES.
- DO NOT BREATHE THE GAS.

**WARNING:** REFER TO THE APPLICABLE MANUFACTURER'S OR SUPPLIERS MSDS FOR:

- MORE PRECAUTIONARY DATA.
- APPROVED SAFETY EQUIPMENT.
- EMERGENCY MEDICAL AID.
- TALK WITH THE LOCAL SAFETY DEPARTMENT OR AUTHORITIES FOR THE PROCEDURES TO DISCARD THIS HAZARDOUS AGENT.

(3) Apply thin film of silicone primer (DPM 3202) to light housing shell in area of gasket installation and allow to dry for 30 minutes.

**WARNING:** HIGH TEMPERATURE ANTISEIZE IS AN AGENT THAT IS POISONOUS. MAKE SURE ALL PERSONS OBEY THE PRECAUTIONS WHEN HIGH TEMPERATURE ANTISEIZE IS USED.

- DO NOT USE IN AREAS WHERE THERE IS HIGH HEAT, SPARKS, OR FLAMES.
- USE IN AN AREA OPEN TO THE AIR.
- CLOSE THE CONTAINER WHEN NOT USED.
- DO NOT GET HIGH TEMPERATURE ANTISEIZE IN THE EYES, ON THE SKIN, OR ON YOUR CLOTHES.
- DO NOT BREATHE THE GAS.

**WARNING:** REFER TO THE APPLICABLE MANUFACTURER'S OR SUPPLIERS MSDS FOR:

- MORE PRECAUTIONARY DATA.
- APPROVED SAFETY EQUIPMENT.
- EMERGENCY MEDICAL AID.
- TALK WITH THE LOCAL SAFETY DEPARTMENT OR AUTHORITIES FOR THE PROCEDURES TO DISCARD THIS HAZARDOUS AGENT.

(4) Lightly coat inner surface of gasket with high temperature antiseize compound (DPM 377).

**WJE 401-412, 414-427, 429, 861-866, 868, 869, 871, 872, 875-881, 883, 884, 886, 887, 891**

(5) Connect wires to lamp and remove wire tags, STD-859.

(6) Install lamp in housing shell and make certain that lamp is firmly seated in gasket.

**EFFECTIVITY**

**WJE 401-412, 414-427, 429, 861-866, 868, 869, 871, 872, 875-881, 883, 884, 886, 887, 891**

**33-47-00**

TP-80MM-WJE

Page 203  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

(7) Make certain louvre gasket is installed in louvre.

**WJE 401-411, 415-427, 429, 861-866, 868, 869, 871, 872, 875-881, 883, 884, 886, 887, 891**

**WARNING:** SILICONE SEALANT IS AN AGENT THAT IS POISONOUS, CARCINOGENIC, CORROSIVE, AND AN IRRITANT. MAKE SURE ALL PERSONS OBEY THE PRECAUTIONS WHEN SILICONE SEALANT IS USED.

- DO NOT USE IN AREAS WHERE THERE IS HIGH HEAT, SPARKS, OR FLAMES.
- USE IN AN AREA OPEN TO THE AIR.
- CLOSE THE CONTAINER WHEN NOT USED.
- DO NOT GET SILICONE SEALANT IN THE EYES, ON THE SKIN, OR ON YOUR CLOTHES.
- DO NOT BREATHE THE GAS.

**WARNING:** REFER TO THE APPLICABLE MANUFACTURER'S OR SUPPLIERS MSDS FOR:

- MORE PRECAUTIONARY DATA.
- APPROVED SAFETY EQUIPMENT.
- EMERGENCY MEDICAL AID.
- TALK WITH THE LOCAL SAFETY DEPARTMENT OR AUTHORITIES FOR THE PROCEDURES TO DISCARD THIS HAZARDOUS AGENT.

(a) If louver gasket is replaced, apply thin layer of silicone compound (DPM 209) to gasket and light housing shell. Install gasket with large beads toward inside of housing shell. Allow 24 hours drying time.

**WJE 401-411, 415-427, 429, 861-866, 868, 869, 871, 872, 875-881, 883, 884, 886, 887, 891; Pre service letter MD-80-DL-33-102**

(8) Install louvre over lamp with louvres aligned vertically and secure with retaining clips, ensuring clips are installed under light housing lip, and secured 180 degrees apart using two retaining screws.

**WJE 401-411, 415-427, 429, 861-866, 868, 869, 871, 872, 875-881, 883, 884, 886, 887, 891**

(9) Install louvre over lamp with louvres aligned vertically and secure with retaining ring.

**WJE 401-412, 414-427, 429, 861-866, 868, 869, 871, 872, 875-881, 883, 884, 886, 887, 891**

- (10) Install louvre over lamp with louvres vertically aligned and install retaining ring. Figure 201 (Sheet 3)
- (11) Position clip between louvre and retaining ring, push down on clip and install screw. Figure 201 (Sheet 3)
- (12) Remove the applicable safety tag and close the circuit breaker:

### UPPER EPC, LIGHTS - LEFT AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	24	B1-747	LEFT LOGO LIGHTS

### UPPER EPC, LIGHTS - RIGHT AC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
L	24	B1-746	RIGHT LOGO LIGHTS

#### EFFECTIVITY

WJE 401-412, 414-427, 429, 861-866, 868, 869, 871, 872, 875-881, 883, 884, 886, 887, 891

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**MD-80  
AIRCRAFT MAINTENANCE MANUAL**

- (13) Perform adjustment test of logo light. (Paragraph 5.)

**EFFECTIVITY**

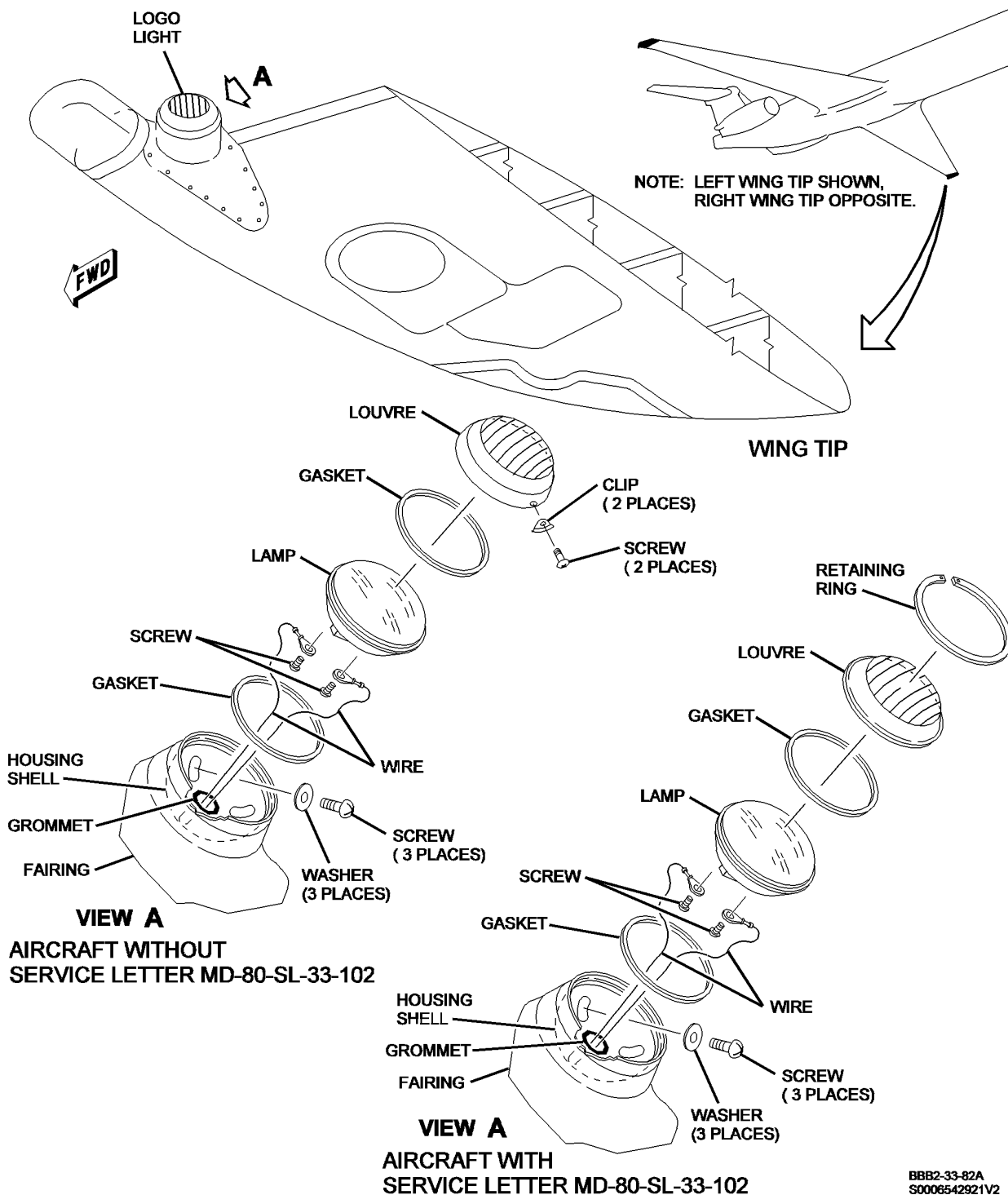
**WJE 401-412, 414-427, 429, 861-866, 868, 869, 871,  
872, 875-881, 883, 884, 886, 887, 891**

**TP-80MM-WJE**

**33-47-00**

Page 205  
Feb 01/2016

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



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S0006542921V2

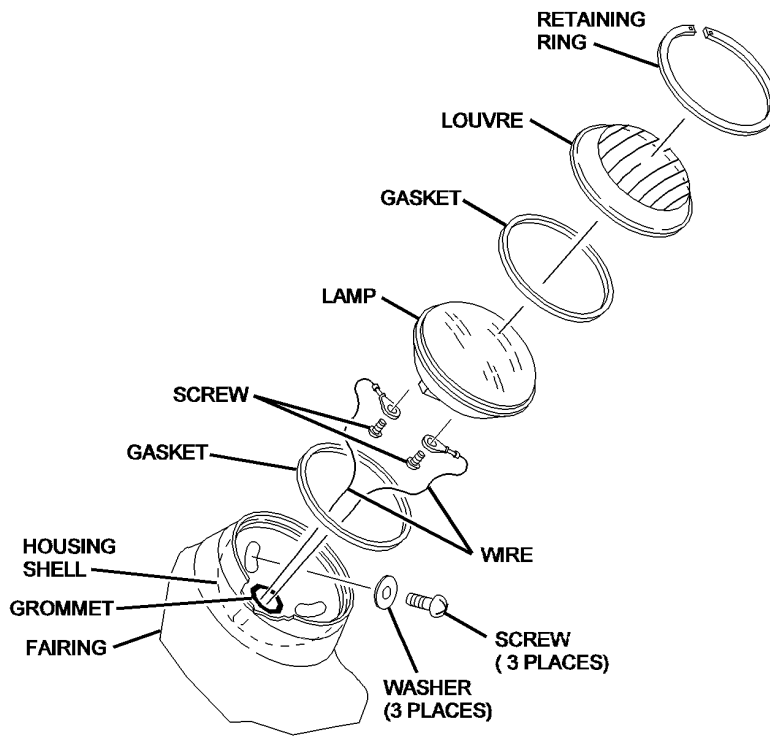
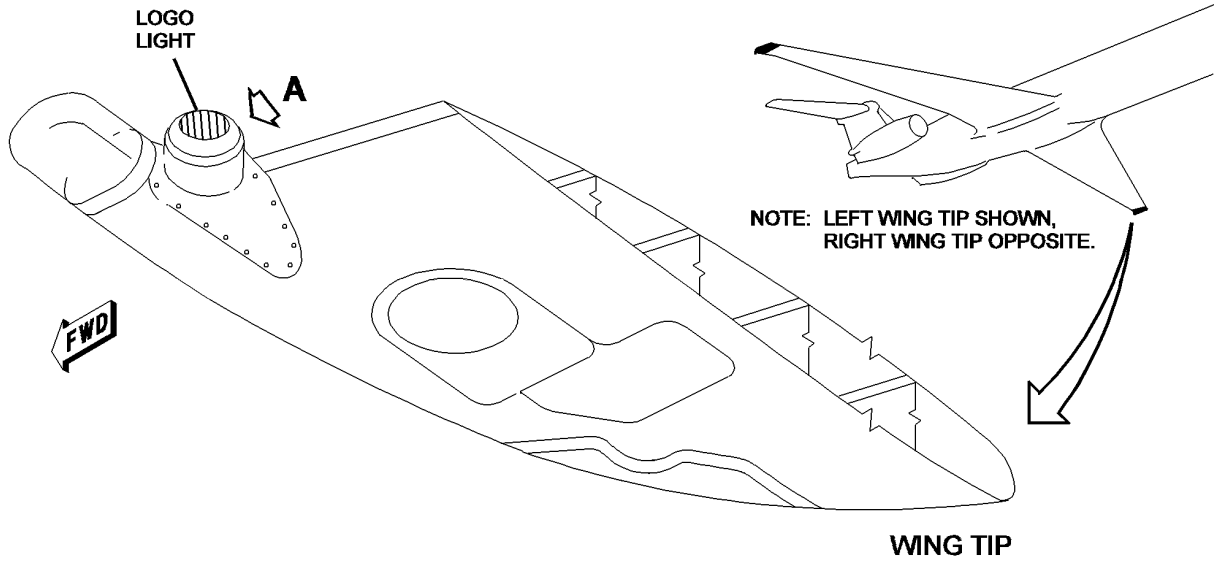
**Logo Lights -- Removal/Installation**  
Figure 201/33-47-00-990-802 (Sheet 1 of 3)

EFFECTIVITY  
WJE 401-411, 415-427, 429, 861-866, 868, 869, 871,  
872, 875-881, 883, 884, 886, 887, 891

**33-47-00**



**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



**VIEW A**

BBB2-33-580  
S0000225565V1

**Logo Lights -- Removal/Installation**  
Figure 201/33-47-00-990-802 (Sheet 2 of 3)

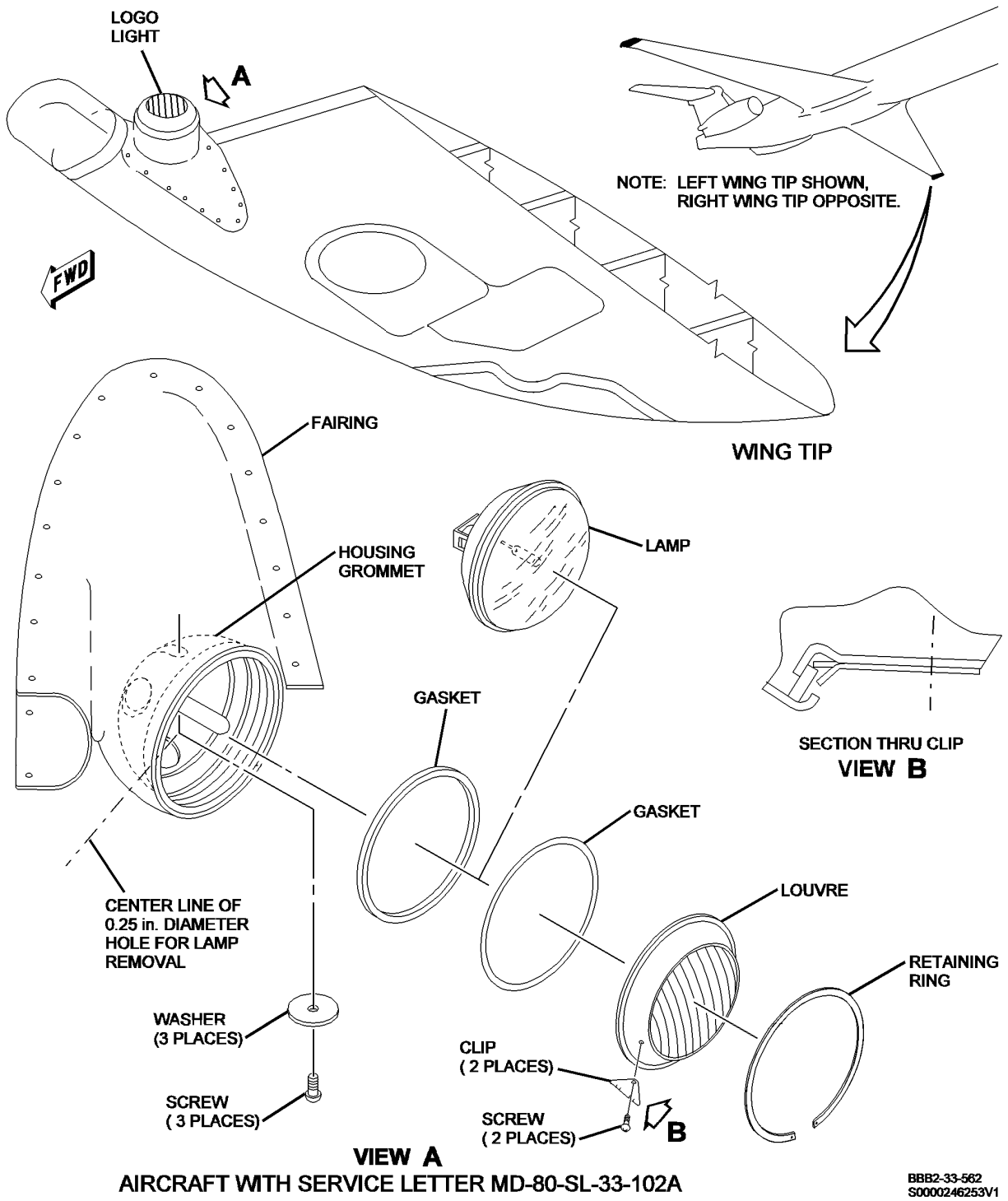
EFFECTIVITY  
WJE 412, 414

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**33-47-00**

Page 207  
Feb 01/2015

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



**Logo Lights -- Removal/Installation**  
Figure 201/33-47-00-990-802 (Sheet 3 of 3)

EFFECTIVITY  
WJE 401-412, 414-427, 429, 861-866, 868, 869, 871,  
872, 875-881, 883, 884, 886, 887, 891

**33-47-00**

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### 4. Removal/Installation Transformer

#### A. Remove Transformer (Figure 202)

- (1) Push LOGO switchlight to OFF position on forward overhead panel.

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

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

#### **UPPER EPC, LIGHTS - LEFT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	24	B1-747	LEFT LOGO LIGHTS

#### **UPPER EPC, LIGHTS - RIGHT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
L	24	B1-746	RIGHT LOGO LIGHTS

- (3) Open applicable access panel:

- Left - 1146A
- Right - 1207A

- (4) Install wire tags (STD-859) and disconnect electrical wiring from transformer.
- (5) Remove transformer retaining screws and remove transformer.

#### B. Install Transformer

- (1) Make certain LOGO switch is in OFF position on forward overhead panel.

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (2) Make sure that the applicable circuit breaker is open and has safety tag:

#### **UPPER EPC, LIGHTS - LEFT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	24	B1-747	LEFT LOGO LIGHTS

#### **UPPER EPC, LIGHTS - RIGHT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
L	24	B1-746	RIGHT LOGO LIGHTS

- (3) Install transformer and secure with retaining screws.
- (4) Connect electrical wiring to transformer and remove wire tags (STD-859).
- (5) Close applicable access panel:
  - Left - 1146A
  - Right - 1207A
- (6) Remove the applicable safety tag and close this circuit breaker:

#### **UPPER EPC, LIGHTS - LEFT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
K	24	B1-747	LEFT LOGO LIGHTS

#### EFFECTIVITY

WJE 401-412, 414-427, 429, 861-866, 868, 869, 871, 872, 875-881, 883, 884, 886, 887, 891

# 33-47-00

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**

**UPPER EPC, LIGHTS - RIGHT AC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
L	24	B1-746	RIGHT LOGO LIGHTS

- (7) Push LOGO switchlight on overhead switch panel to check proper operation of logo lights.

**EFFECTIVITY**

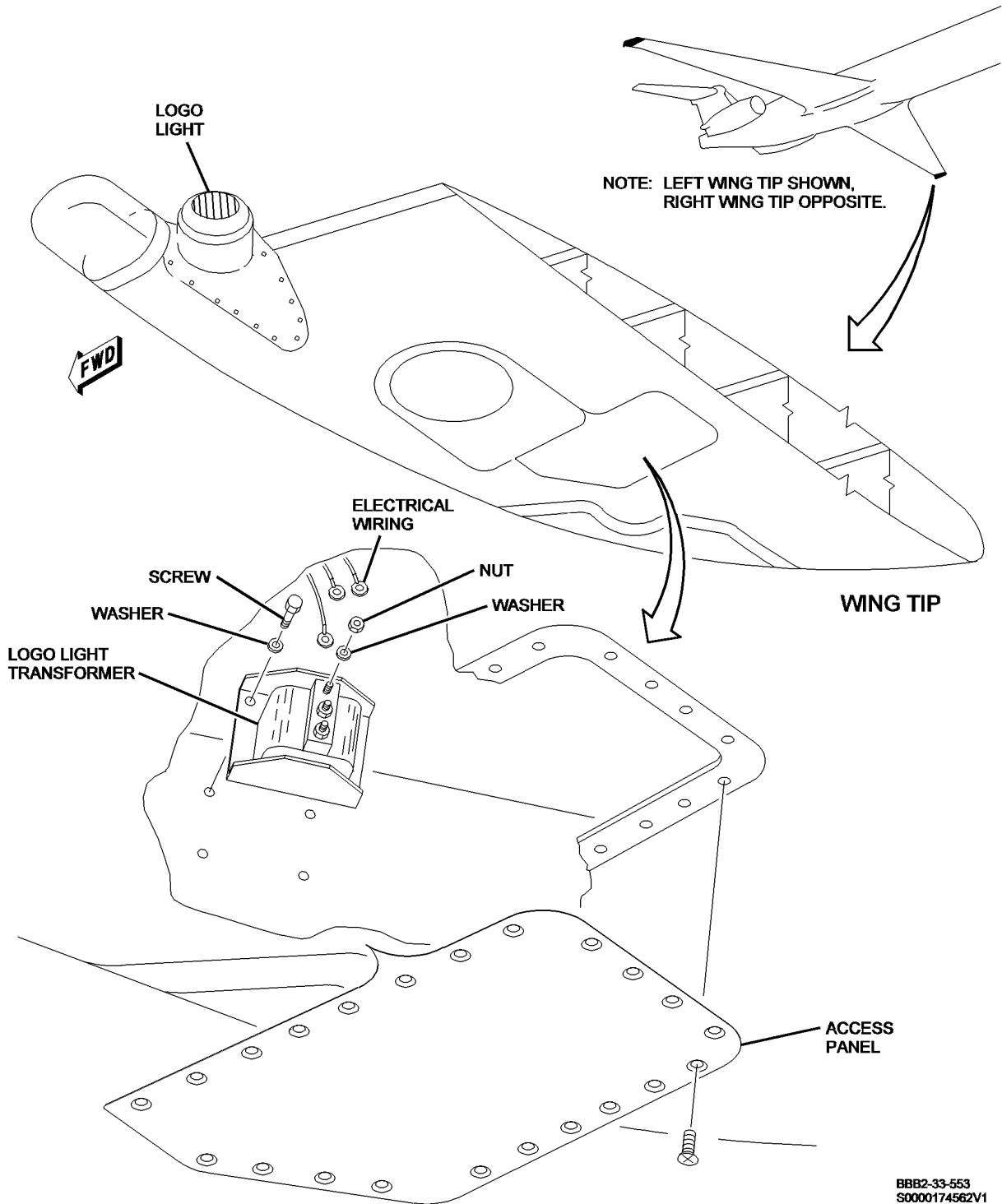
**WJE 401-412, 414-427, 429, 861-866, 868, 869, 871,  
872, 875-881, 883, 884, 886, 887, 891**

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**33-47-00**

Page 210  
Feb 01/2016

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



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**Logo Lights Transformer -- Removal/Installation**  
**Figure 202/33-47-00-990-803**

EFFECTIVITY  
WJE 401-412, 414-427, 429, 861-866, 868, 869, 871,  
872, 875-881, 883, 884, 886, 887, 891

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**33-47-00**

Page 211  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### 5. Adjustment/Test Logo Lights

#### A. Adjust Light

NOTE: Adjustments should be performed at night or in a darkened hangar.

**WJE 401-412, 414-427, 429, 861-866, 868, 869, 871, 872, 875-881, 883, 884, 886, 887, 891; AIRCRAFT WITHOUT SERVICE LETTER MD-80-SL-33-102 INCORPORATED**

- (1) Remove louvre retaining screws and clips and remove louvre.

**WJE 401-412, 414-427, 429, 861-866, 868, 869, 871, 872, 875-881, 883, 884, 886, 887, 891; AIRCRAFT WITH SERVICE LETTER MD-80-SL-33-102 INCORPORATED**

- (2) Remove louvre retaining ring and remove louvre.

**WJE 401-412, 414-427, 429, 861-866, 868, 869, 871, 872, 875-881, 883, 884, 886, 887, 891; AIRCRAFT WITHOUT SERVICE LETTER MD-80-SL-33-102 INCORPORATED**

- (3) Remove lamp from housing shell.

**WJE 401-412, 414-427, 429, 861-866, 868, 869, 871, 872, 875-881, 883, 884, 886, 887, 891; AIRCRAFT WITH SERVICE LETTER MD-80-SL-33-102 INCORPORATED**

- (4) Remove lamp from housing shell as follows:

- (a) Insert phillips screwdriver through the 0.25 in. (6.35 mm) diameter hole in the housing shell.
- (b) Push the lamp out of the housing shell with the phillips screwdriver.

**WJE 401-412, 414-427, 429, 861-866, 868, 869, 871, 872, 875-881, 883, 884, 886, 887, 891**

- (5) Loosen three housing adjustment screws to permit moving housing shell by hand within fairing while simultaneously providing enough friction to retain housing shell in place.

NOTE: Adjustment screws are readily identifiable by large area washers under screw heads.

- (6) Nest lamp firmly in housing shell and hold with heat protective gloves (STD-1181).
- (7) Push LOGO switchlight to ON, on forward overhead panel.
- (8) Slide or rotate housing shell in fairing for best insignia illumination.

NOTE: The lamp provides an elliptical type beam which may be oriented to provide maximum illumination of any particular insignia. Generally best results are obtained with the lamp filaments aligned approximately parallel to the rudder hinge line.

- (9) Push LOGO switchlight to OFF on forward overhead panel.
- (10) Remove lamp from housing shell.
- (11) Tighten housing adjustment screws to secure housing shell firmly in position.
- (12) Replace lamp in housing shell and hold with heat protection gloves (STD-1181).
- (13) Push LOGO switchlight to ON position and check beam pattern.
- (14) Repeat Paragraph 5.A.(8) if pattern is not acceptable.
- (15) Install louvre over lamp. Check that louvre is fully seated behind housing shell flange and that louvres are aligned vertically.

**WJE 401-412, 414-427, 429, 861-866, 868, 869, 871, 872, 875-881, 883, 884, 886, 887, 891; AIRCRAFT WITHOUT SERVICE LETTER MD-80-SL-33-102 INCORPORATED**

- (16) Secure louvre with retaining screws and clips.

**WJE 401-412, 414-427, 429, 861-866, 868, 869, 871, 872, 875-881, 883, 884, 886, 887, 891; AIRCRAFT WITH SERVICE LETTER MD-80-SL-33-102 INCORPORATED**

- (17) Secure louvre with retaining ring.

#### EFFECTIVITY

WJE 401-412, 414-427, 429, 861-866, 868, 869, 871, 872, 875-881, 883, 884, 886, 887, 891

# 33-47-00

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**

**WJE 401-412, 414-427, 429, 861-866, 868, 869, 871, 872, 875-881, 883, 884, 886, 887, 891**

**B. Test Light**

- (1) Push LOGO LT switchlight, located on forward overhead switch panel, to ON position. Left and right logo lights should come on.
- (2) Push LOGO LT switchlight to OFF position. Logo lights should go off.

**EFFECTIVITY**

**WJE 401-412, 414-427, 429, 861-866, 868, 869, 871,  
872, 875-881, 883, 884, 886, 887, 891**

**TP-80MM-WJE**

**33-47-00**

Page 213  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### EMERGENCY LIGHTING - DESCRIPTION AND OPERATION

#### 1. General

**WJE 405-411, 415-427, 429, 861-866, 868, 869, 871, 872, 880, 881, 883, 884, 886, 887, 891**

- A. The emergency lighting system is divided, for descriptive purposes, into three subsystems: flight compartment emergency flood lights, cabin standby lights, and emergency lights. The flight compartment utilizes several of the white floodlights for lighting during emergency conditions. These lights receive power from the dc transfer bus and the emergency dc bus. If ac power failure occurs, one 2.5-volt emergency light is located in the aft overhead switch panel, to provide lighting for the flight compartment.

**WJE 401-404, 412, 414, 873-879, 892, 893**

- B. The emergency lighting system is divided, for descriptive purposes, into four subsystems: flight compartment emergency flood lights, cabin standby lights, emergency lights, and emergency aisle floor lights and exit identifiers. The flight compartment utilizes several of the white floodlights for lighting during emergency conditions. These lights receive power from the dc transfer bus and the emergency dc bus. If ac power failure occurs, one 2.5-volt emergency light is located in the aft overhead switch panel, to provide lighting for the flight compartment.

**WJE ALL**

- C. The passenger compartment receives light, during emergency conditions, from one of two independently operated lighting systems. The cabin standby lights operate on 28-volt dc power and control is through the emergency power control switch. The alternate system is the emergency light system that operates on special 2.5-volt battery packs in case of total power failure.

**WJE 401-404, 412, 414, 873-879, 892, 893**

- D. The emergency aisle floor lights and exit identifiers provide an emergency escape path system designed to aid passengers during emergency evacuation of the aircraft when all sources of illumination above four feet (1.219M) are obscured. The emergency aisle floor lights and exit identifiers are interfaced with the overhead emergency lights. The aisle floor lights and exit identifiers augment the overall emergency lighting system. Operation of the emergency lighting system simultaneously activates the aisle floor lights and exit identifiers.

(EMERGENCY LIGHTS, SECTION 33-53).

**WJE ALL**

#### 2. Emergency Lighting -- System Schematics

EFFECTIVITY  
WJE ALL

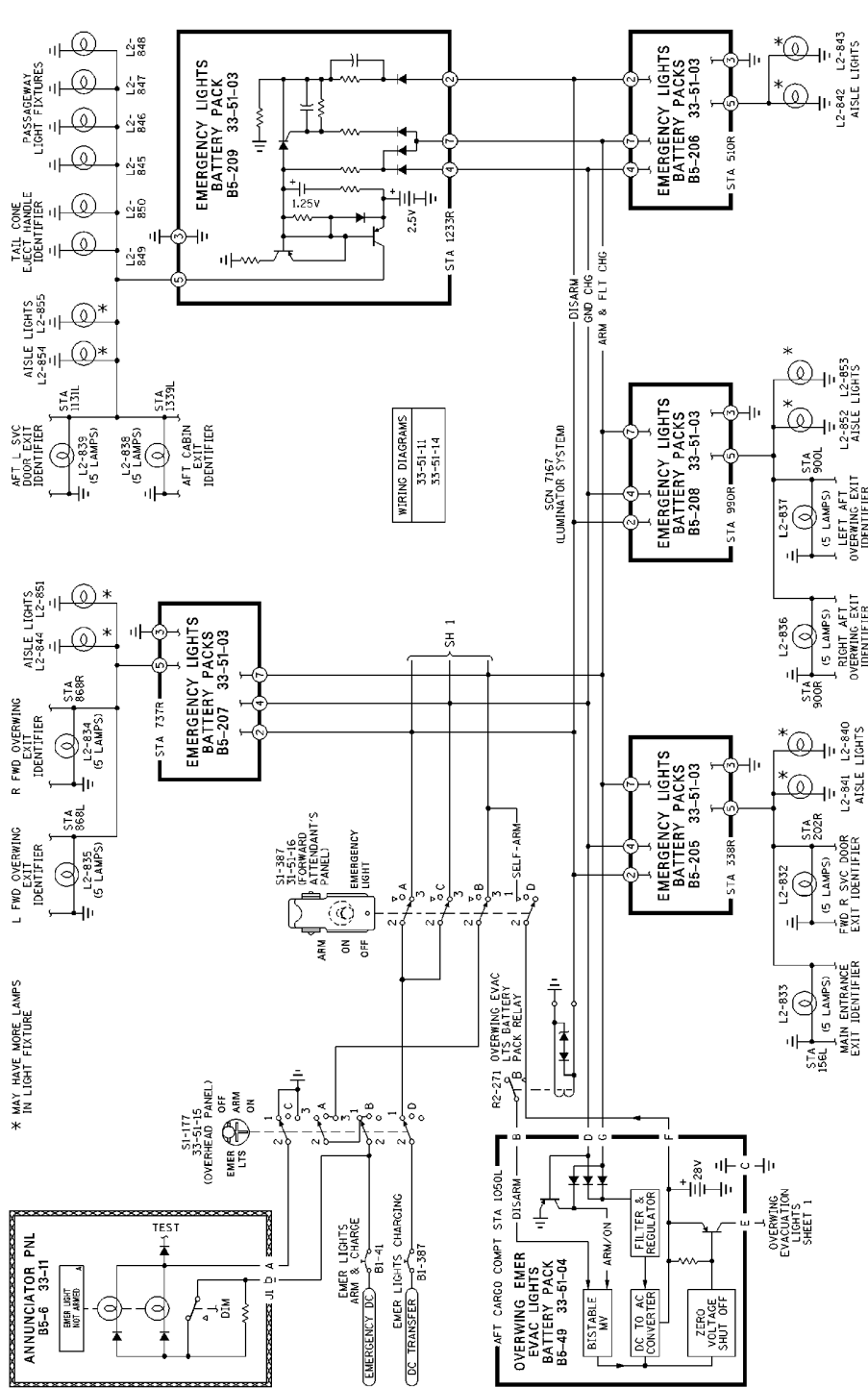
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Page 1  
Feb 01/2016



# MD-80 AIRCRAFT MAINTENANCE MANUAL



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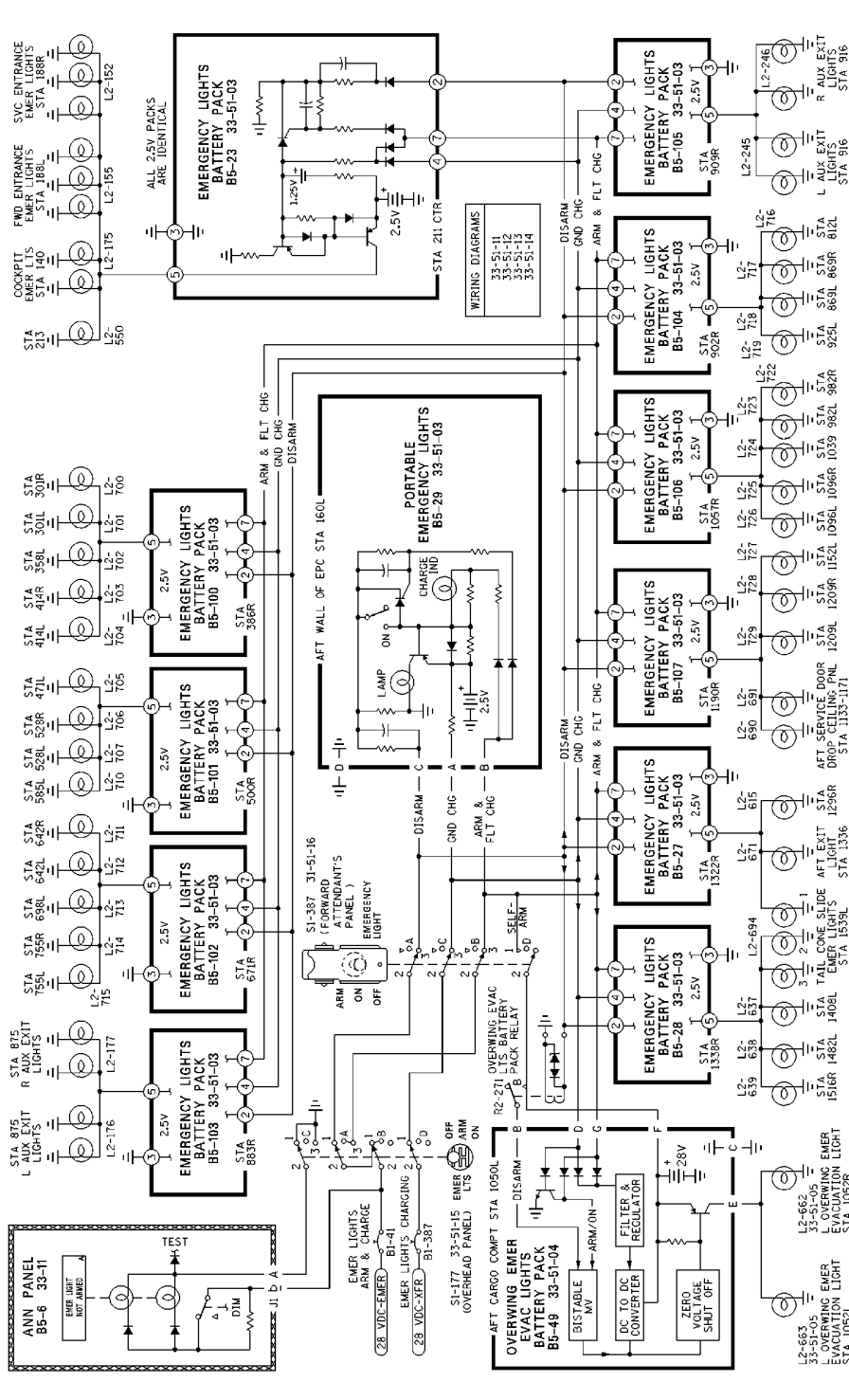
CAG(I)GDS)

Emergency Lighting -- System Schematic  
Figure 1/33-50-00-990-802 (Sheet 1 of 6)

EFFECTIVITY  
WJE 401-404, 412, 414, 873, 874, 892, 893

33-50-00

# MD-80 AIRCRAFT MAINTENANCE MANUAL



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MDC PROPRIETARY

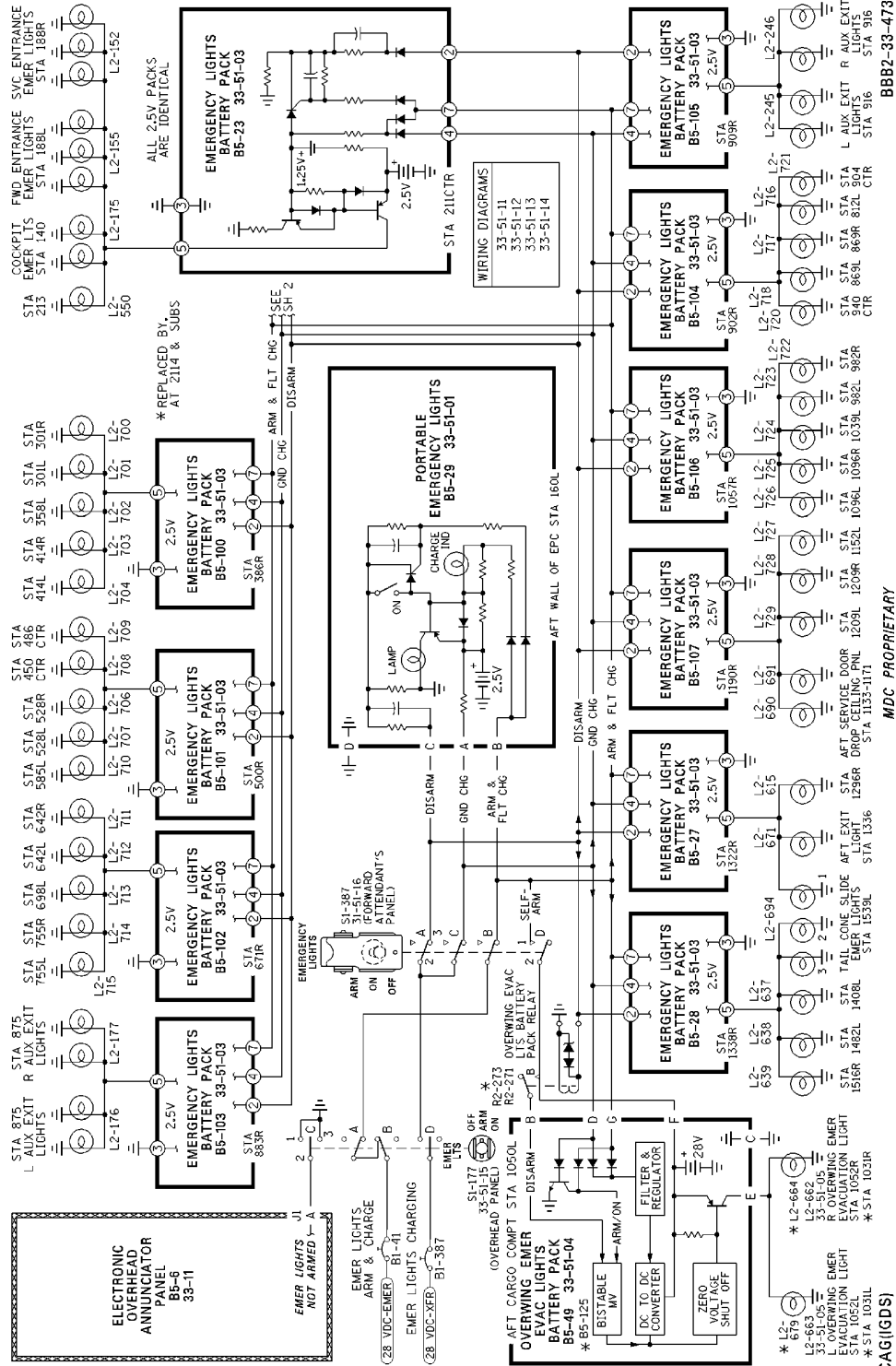
CAG(IIGDS)

Emergency Lighting -- System Schematic  
Figure 1/33-50-00-990-802 (Sheet 2 of 6)

EFFECTIVITY  
WJE 401-404, 412, 414, 873, 874, 892, 893

33-50-00

# MD-80 AIRCRAFT MAINTENANCE MANUAL



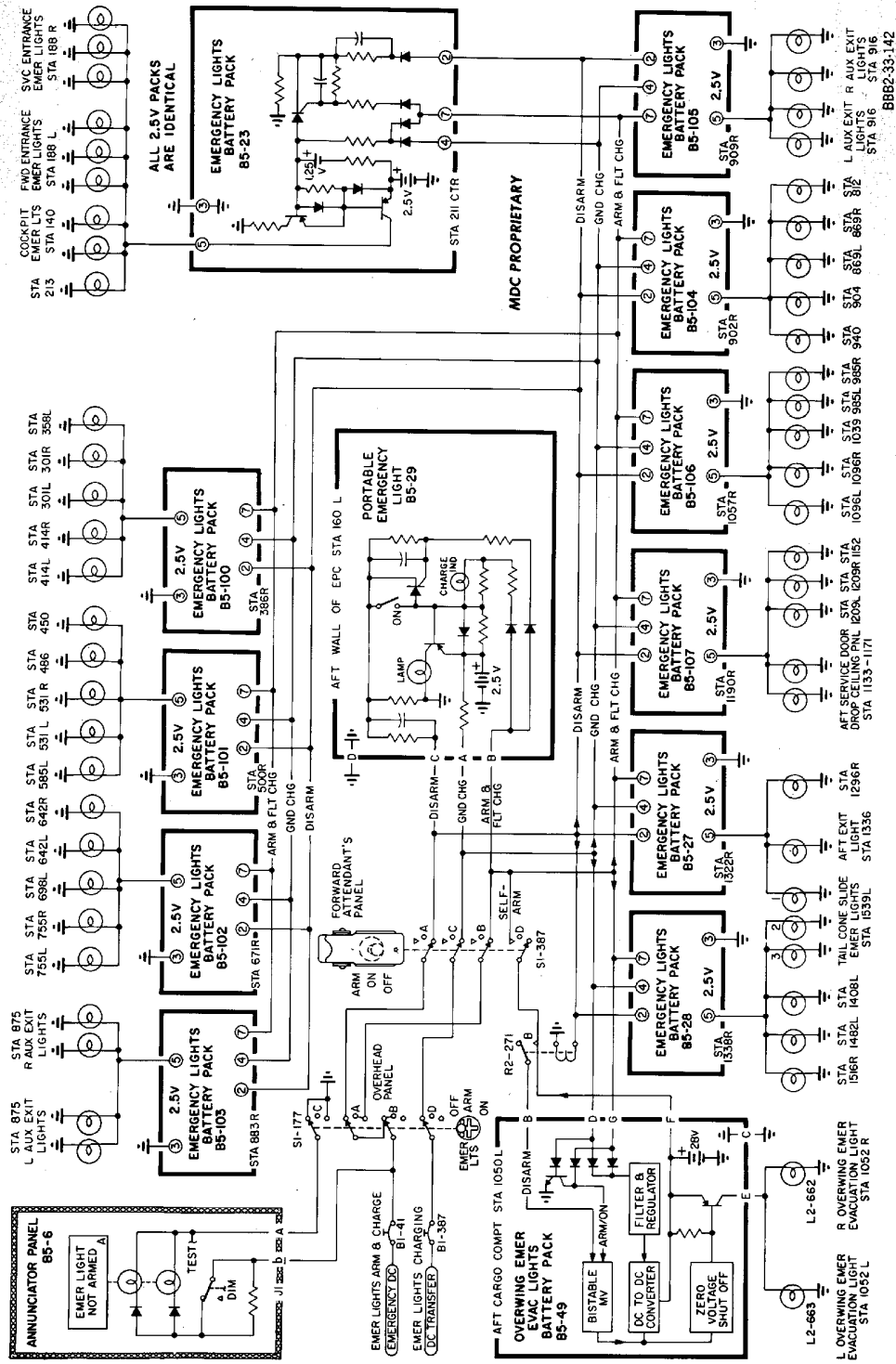
**Emergency Lighting -- System Schematic  
Figure 1/33-50-00-990-802 (Sheet 3 of 6)**

EFFECTIVITY  
WJE 875-879

# 33-50-00

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**MD-80  
AIRCRAFT MAINTENANCE MANUAL**

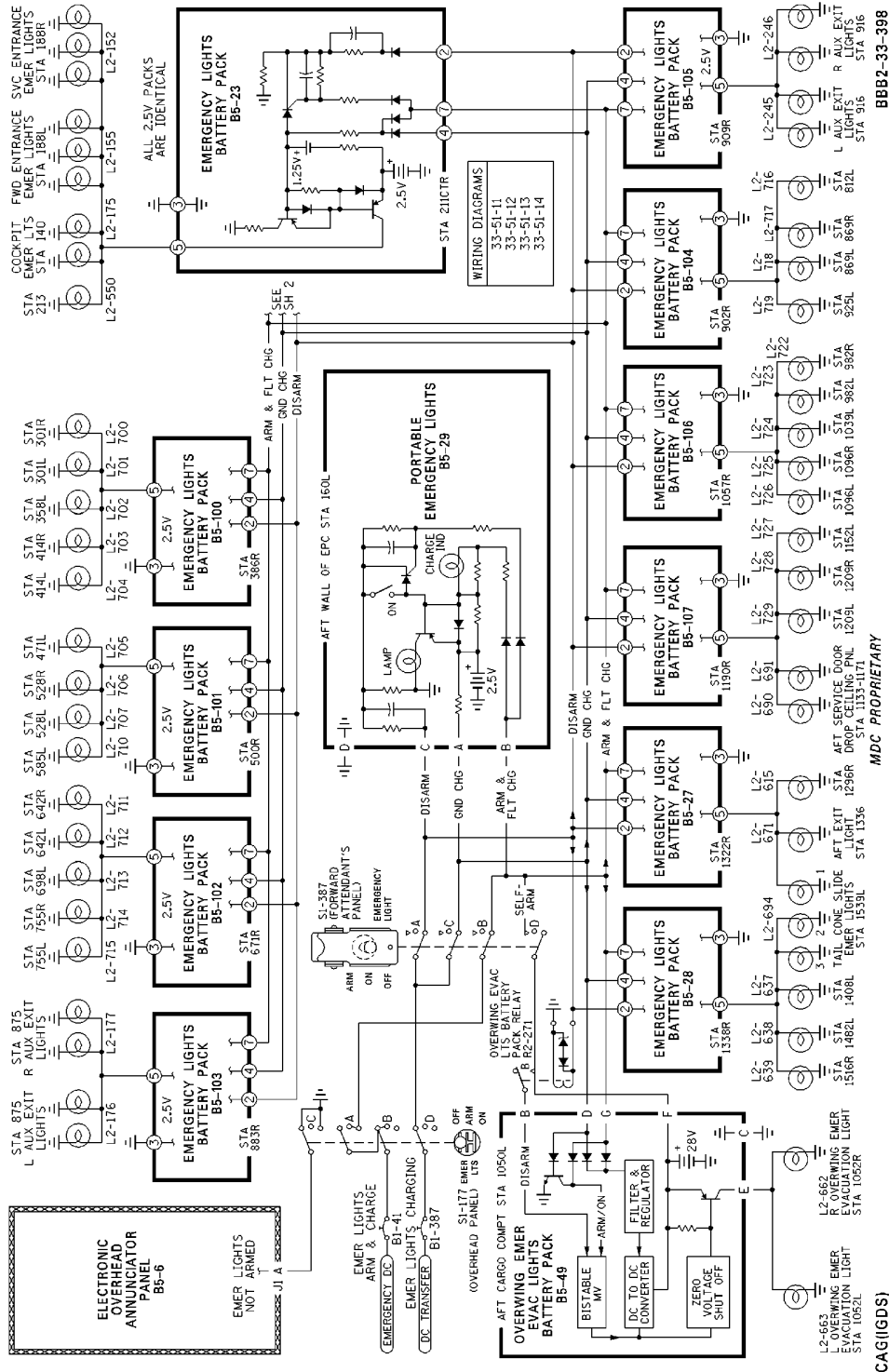


**Emergency Lighting -- System Schematic  
Figure 1/33-50-00-990-802 (Sheet 4 of 6)**

**EFFECTIVITY**  
WJE 405-411, 416, 422, 425-427, 861, 862, 868, 880,  
881, 883, 884

**33-50-00**

## MD-80 AIRCRAFT MAINTENANCE MANUAL

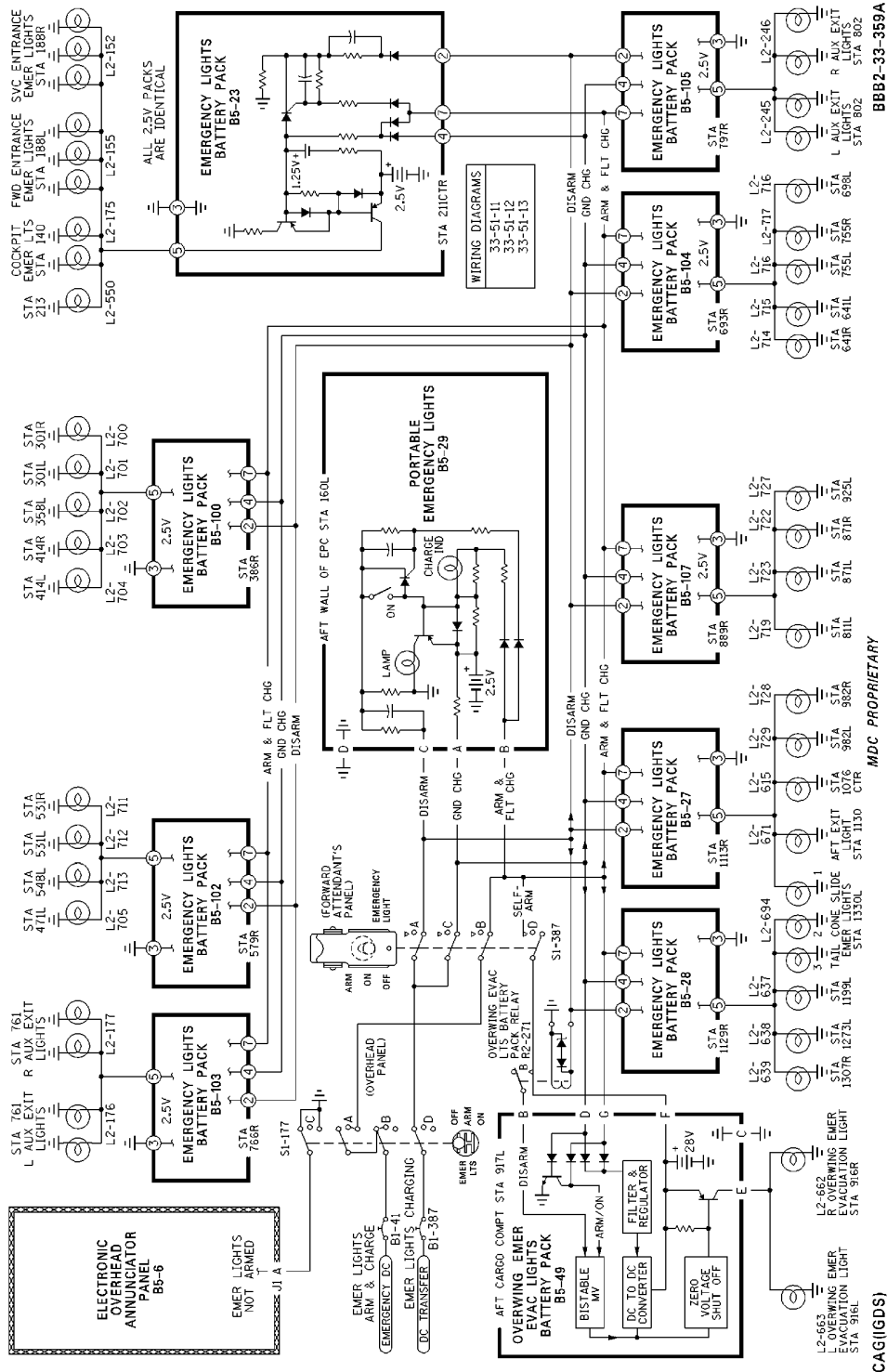


**Emergency Lighting -- System Schematic  
Figure 1/33-50-00-990-802 (Sheet 5 of 6)**

EFFECTIVITY  
WJE 886, 887

**33-50-00**

# MD-80 AIRCRAFT MAINTENANCE MANUAL



Emergency Lighting -- System Schematic  
Figure 1/33-50-00-990-802 (Sheet 6 of 6)

EFFECTIVITY  
WJE 415, 417-419, 421, 423, 863-866, 869, 871, 872

TP-80MM-WJE

33-50-00

Page 7  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### FLIGHT COMPARTMENT EMERGENCY FLOODLIGHTS - DESCRIPTION AND OPERATION

#### 1. General

- A. The instruments and control panels in the flight compartment are lighted by several white floodlights located on the glare-shield, ceiling, and bulkhead of the flight compartment. If ac power failure occurs the dc transfer bus and the emergency dc bus have power available from the 28-volt battery. The white floodlights will then operate until the battery is dis-charged. With the thunderstorm light switch in the on position, the lights are full bright. With the thunderstorm light switch in the off position, the lights can be controlled by the white light dimming rheostats on the light control panels.
- B. Maintenance of the flight compartment emergency floodlights is included under the flight compartment normal lighting systems.

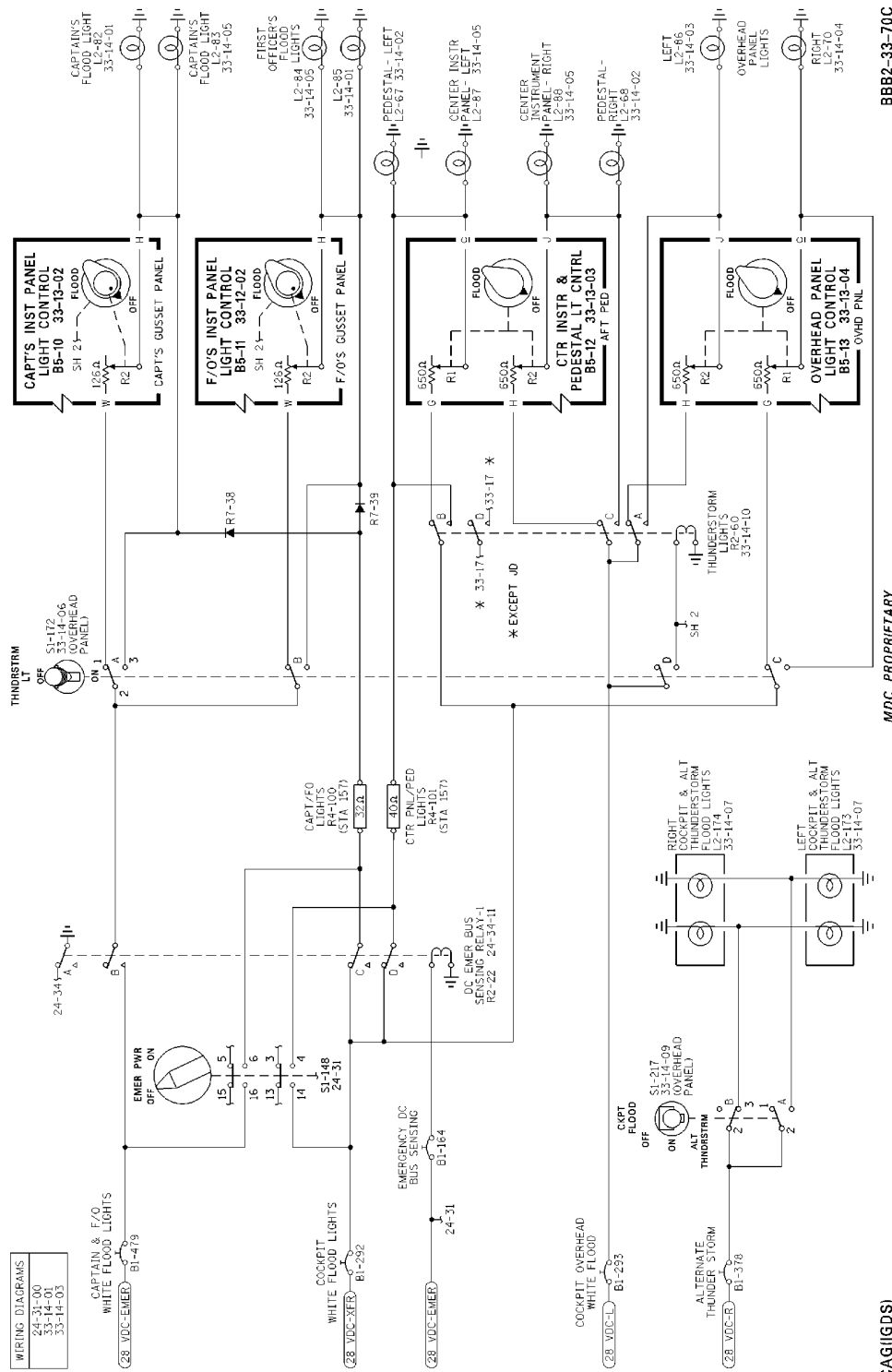
EFFECTIVITY  
WJE ALL

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**33-51-00**

Page 1  
Feb 01/2015

# MD-80 AIRCRAFT MAINTENANCE MANUAL



BBB2-33-70C

MDC PROPRIETARY

CAG(IIGDS)

Flight Compartment Emergency Floodlights -- System Schematic  
Figure 1/33-51-00-990-801

EFFECTIVITY  
WJE ALL

33-51-00



# MD-80 AIRCRAFT MAINTENANCE MANUAL

## FLIGHT COMPARTMENT EMERGENCY FLOODLIGHTS - ADJUSTMENT/TEST

### 1. General

A. The following procedures provide an operational test of the flight compartment emergency floodlight circuitry.

### 2. Adjustment/Test Emergency Floodlights

A. Test Emergency Floodlights

- (1) Connect external electrical power to aircraft. (EXTERNAL POWER - DESCRIPTION AND OPERATION, PAGEBLOCK 24-40-00/001)
  - (a) Make certain left and right AC buses are energized.
- (2) Check that BATT switch on overhead switch panel, is in ON position.
- (3) Open following circuit breakers; captain's, first officer's, left pedestal, and center instrument panel left floodlights should come on at fixed level:

#### **LOWER EPC, DC AIR CONDITIONING & MISCELLANEOUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
W	28	B1-378	ALTERNATE THUNDER STORM

#### **LOWER EPC, DC PWR FEED**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
N	37	B1-159	EMERGENCY DC BUS FEED
N	38	B1-167	CHARGER & TRANSFER RELAY CONTROL

#### **LOWER EPC, LIGHTS - LEFT DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
M	33	B1-293	COCKPIT OVERHEAD WHITE FLOOD

- (4) Place EMER PWR switch on overhead switch panel, in ON position: floodlights should remain on.

NOTE: Due to switching transient time, floodlights may flicker momentarily in the above step.

- (5) Rotate FLOOD knob on OVHD CONSOLE LTS control panel, fully clockwise from OFF position; right overhead floodlight should come on dim and become brighter.
- (6) Rotate FLOOD knob on OVHD CONSOLE LTS control panel, counterclockwise to approximately mid position; right overhead floodlight should decrease in intensity.
- (7) Place THNDRSTRM LT switch on overhead switch panel, in ON position; floodlights should increase in intensity.
- (8) Place THNDRSTRM LT switch on overhead switch panel, in OFF position; floodlights should decrease in intensity.
- (9) Rotate FLOOD knob on OVHD CONSOLE LTS control panel, counterclockwise to OFF position; right overhead floodlight should dim and go off.
- (10) Place EMER PWR switch on overhead switch panel, in OFF position.
- (11) Close following circuit breakers; floodlights should go off:

#### **LOWER EPC, DC AIR CONDITIONING & MISCELLANEOUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
W	28	B1-378	ALTERNATE THUNDER STORM

EFFECTIVITY  
WJE ALL

# 33-51-00

TP-80MM-WJE

Page 501  
Feb 01/2015

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**

**LOWER EPC, DC PWR FEED**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
N	37	B1-159	EMERGENCY DC BUS FEED
N	38	B1-167	CHARGER & TRANSFER RELAY CONTROL

**LOWER EPC, LIGHTS - LEFT DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
M	33	B1-293	COCKPIT OVERHEAD WHITE FLOOD

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

**33-51-00**

Page 502  
Feb 01/2015

# MD-80 AIRCRAFT MAINTENANCE MANUAL

## FLIGHT COMPARTMENT EMERGENCY FLOODLIGHTS - ADJUSTMENT/TEST

**1. General**

A. This procedure contains MSG-3 task card data.

**TASK 33-51-00-710-801**

**2. Operational Check of the Cockpit Flood Light and Thunderstorm Lights**

NOTE: This procedure is a scheduled maintenance task.

**A. References**

<u>Reference</u>	<u>Title</u>
24-00-00 P/B 001	GENERAL - DESCRIPTION AND OPERATION

**B. Prepare for the Operational Check of the Cockpit Flood Light and Thunderstorm Lights**

SUBTASK 33-51-00-861-001

- (1) Energize the aircraft electrical power system. (GENERAL - DESCRIPTION AND OPERATION, PAGEBLOCK 24-00-00/001)

SUBTASK 33-51-00-865-003

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

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

**LOWER EPC, DC AIR CONDITIONING & MISCELLANEOUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
W	28	B1-378	ALTERNATE THUNDER STORM

**LOWER EPC, DC PWR FEED**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
N	37	B1-159	EMERGENCY DC BUS FEED
N	38	B1-167	CHARGER & TRANSFER RELAY CONTROL

**LOWER EPC, LIGHTS - LEFT DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
M	33	B1-293	COCKPIT OVERHEAD WHITE FLOOD

**C. Operational Check of the Cockpit Flood Light and Thunderstorm Lights**

SUBTASK 33-51-00-710-001

- (1) Do an operational check of the cockpit flood light and thunderstorm lights.
- (a) Place EMER PWR switch on overhead switch panel, in ON position: floodlights should remain on.
- NOTE: Due to switching transient time, floodlights may flicker momentarily in the above step.
- (b) Rotate FLOOD knob on OVHD CONSOLE LTS control panel, fully clockwise from OFF position; right overhead floodlight should come on dim and become brighter.
- (c) Rotate FLOOD knob on OVHD CONSOLE LTS control panel, counterclockwise to approximately mid position; right overhead floodlight should decrease in intensity.

EFFECTIVITY  
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TP-80MM-WJE

**33-51-00**

Config 1  
Page 501  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

- (d) Place THNDRSTRM LT switch on overhead switch panel, in ON position; floodlights should increase in intensity.
- (e) Place THNDRSTRM LT switch on overhead switch panel, in OFF position; floodlights should decrease in intensity.
- (f) Rotate FLOOD knob on OVHD CONSOLE LTS control panel, counterclockwise to OFF position; right overhead floodlight should dim and go off.
- (g) Place EMER PWR switch on overhead switch panel, in OFF position.

### D. Job Close-up

SUBTASK 33-51-00-865-002

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

#### LOWER EPC, DC AIR CONDITIONING & MISCELLANEOUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
W	28	B1-378	ALTERNATE THUNDER STORM

#### LOWER EPC, DC PWR FEED

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
N	37	B1-159	EMERGENCY DC BUS FEED
N	38	B1-167	CHARGER & TRANSFER RELAY CONTROL

#### LOWER EPC, LIGHTS - LEFT DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
M	33	B1-293	COCKPIT OVERHEAD WHITE FLOOD

SUBTASK 33-51-00-862-001

- (2) De-energize the aircraft electrical power system. (GENERAL - DESCRIPTION AND OPERATION, PAGEBLOCK 24-00-00/001)

————— END OF TASK —————

### TASK 33-51-00-710-802

### 3. Operational Check of the Cockpit Floodlights by Pulling Emergency Bus Sensing Circuit Breaker

NOTE: This procedure is a scheduled maintenance task.

#### A. References

<u>Reference</u>	<u>Title</u>
24-00-00 P/B 001	GENERAL - DESCRIPTION AND OPERATION

#### B. Prepare for the Operational Check of the Cockpit Floodlights by Pulling Emergency Bus Sensing Circuit Breaker

SUBTASK 33-51-00-861-002

- (1) Energize the aircraft electrical power system. (GENERAL - DESCRIPTION AND OPERATION, PAGEBLOCK 24-00-00/001)

SUBTASK 33-51-00-861-003

- (2) Make sure the battery switch is in the ON position.
- (3) Make sure the THNDRSTRM LT switch is in the OFF position.
- (4) Make sure the CKPT FLOOD switch is in the OFF position.

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

# 33-51-00

Config 1  
Page 502  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### C. Operational Check of the Cockpit Floodlights by Pulling Emergency Bus Sensing Circuit Breaker

SUBTASK 33-51-00-710-002

- (1) Do an operational check of the cockpit floodlights by pulling emergency bus sensing circuit breaker.
  - (a) On the captain's gusset panel rotate the captain's instrument panel light control, rotate the FLOOD knob to the OFF position.
  - (b) On the first officers gusset panel rotate the first officers Instrument panel light control, rotate the FLOOD knob to the OFF position.
  - (c) On the aft pedestal, center instrument and pedestal light control, rotate the FLOOD knob to the OFF position.

SUBTASK 33-51-00-865-005

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (2) Open these circuit breakers:

#### OVERHEAD EMERGENCY DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 401-409, 411, 412, 414-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893</b>			
B	12	B1-164	EMERGENCY DC BUS SENSING
<b>WJE 410</b>			
B	13	B1-164	EMERGENCY DC BUS SENSING

#### WJE ALL

- (a) Make sure the captain's, first officer's, center pedestal left, and the center instrument panel left floodlights are ON.

### D. Job Close-up

SUBTASK 33-51-00-865-007

- (1) Close these circuit breakers:

#### OVERHEAD EMERGENCY DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 401-409, 411, 412, 414-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893</b>			
B	12	B1-164	EMERGENCY DC BUS SENSING
<b>WJE 410</b>			
B	13	B1-164	EMERGENCY DC BUS SENSING

#### WJE ALL

SUBTASK 33-51-00-865-006

- (2) Return aircraft to normal configuration.
- (3) De-energize the aircraft electrical power system. (GENERAL - DESCRIPTION AND OPERATION, PAGEBLOCK 24-00-00/001)

————— END OF TASK —————

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

# 33-51-00

Config 1  
Page 503  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### CABIN STANDBY LIGHTS - DESCRIPTION AND OPERATION

#### 1. General

- A. During emergency conditions, the passenger compartment is lighted by a number of lights installed in ceiling light fixtures. In the event of ac power failure, the emergency power control switch in the overhead switch panel is placed in the on position to connect the cabin standby light circuit directly to the battery direct bus. The battery direct bus supplies 28-volt power to the standby lights until the battery is discharged. During the interval from the time of ac power failure and the closing of the emergency power control switch; the passenger compartment is lighted by the emergency light system. (EMERGENCY LIGHTS - DESCRIPTION AND OPERATION, PAGEBLOCK 33-53-00/001)

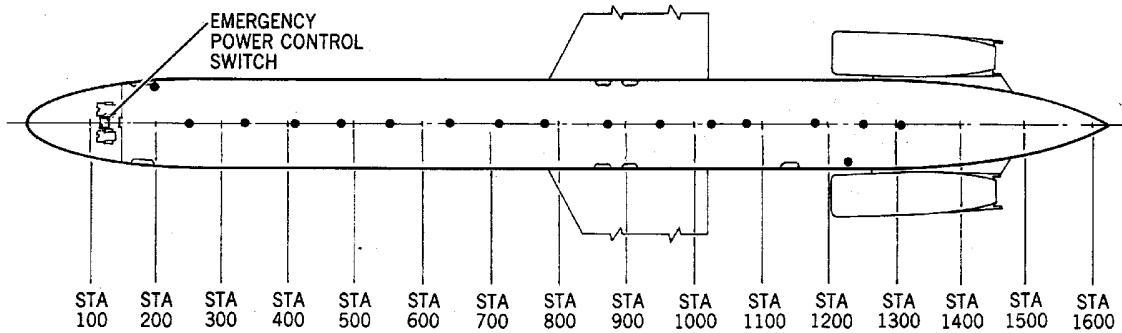
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WJE ALL

TP-80MM-WJE

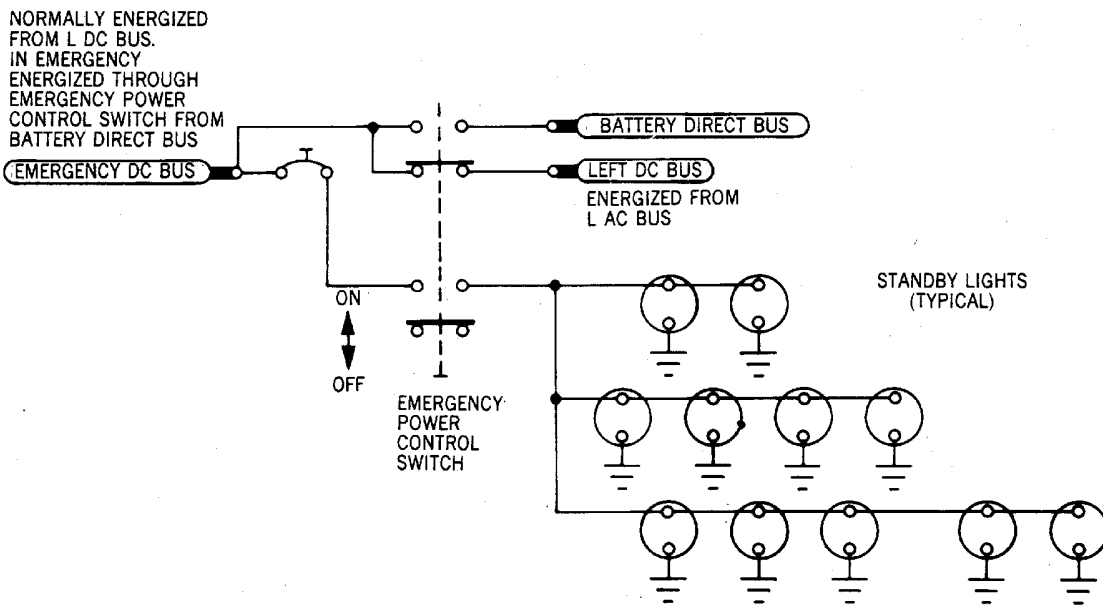
**33-52-00**

Page 1  
Feb 01/2015

**MD-80  
 AIRCRAFT MAINTENANCE MANUAL**



NOTE: LIGHT ARRANGEMENT  
 TYPICAL, LOCATIONS  
 SHOWN APPROXIMATE.



**OPERATION**

IF THE POWER BUSES BECOME DEENERGIZED, PLACING THE EMERGENCY POWER CONTROL SWITCH TO ON POSITION CONNECTS THE EMERGENCY DC BUS TO THE BATTERY DIRECT BUS AND AUTOMATICALLY TURNS ON THE CABIN STANDBY LIGHTS. THE LIGHTS WILL STAY ON UNTIL THE AIRPLANE BATTERY IS DISCHARGED. THE CABIN STANDBY LIGHTS ARE NOT CONNECTED TO THE EMERGENCY LIGHTS OR TO THE FLIGHT COMPARTMENT EMERGENCY FLOOD LIGHTS.

BBB2-33-71

**Cabin Standby Lights  
 Figure 1/33-52-00-990-802**

EFFECTIVITY  
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**33-52-00**

TP-80MM-WJE

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**

**CABIN STANDBY LIGHTS - ADJUSTMENT/TEST**

**1. General**

A. The following procedures provide an operational test of the cabin standby lights circuitry.

**2. Adjustment/Test Cabin Standby Lights**

A. Test Standby Lights

- (1) Make certain EMER PWR control switch on overhead panel is in OFF position.
- (2) Make sure that these circuit breakers are closed:

**OVERHEAD EMERGENCY DC BUS**

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

**WJE 401-409, 411, 412, 414-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893**

A	12	B1-165	EMERGENCY POWER IN USE LIGHTS
A	13	B1-42	CABIN STANDBY LIGHTS

**WJE 410**

A	13	B1-165	EMERGENCY POWER IN USE LIGHTS
A	14	B1-42	CABIN STANDBY LIGHTS

**WJE ALL**

- (3) Place EMER PWR control switch on overhead panel in ON position.
- (4) EMER PWR IN USE light on overhead panel and all cabin standby lights should illuminate.
- (5) Place EMER PWR control switch in OFF position.
- (6) EMER PWR IN USE light and all cabin standby lights should extinguish.

EFFECTIVITY
WJE ALL

**33-52-00**

TP-80MM-WJE

Page 501  
Feb 01/2016



## MD-80 AIRCRAFT MAINTENANCE MANUAL

### EMERGENCY LIGHTS - DESCRIPTION AND OPERATION

#### 1. General

**WJE 405-411, 415-427, 429, 861-866, 868, 869, 871, 872, 880, 881, 883, 884, 886, 887, 891**

- A. The emergency lights consist of numerous lights and lighted exit signs distributed throughout the passenger compartment and aft accessory compartment, one light in the aft overhead switch panel in the flight compartment, and the overwing emergency evacuation lights located in the fuselage. The emergency lights go on if total ac power loss occurs, or if power is removed from the emergency dc bus. The lights are powered by rechargeable battery packs. To prevent the battery packs energizing the lights by internal power, the emergency lights switches must be placed in the off position before shutting down airplane power. The batteries must be checked periodically and replaced as necessary.

**WJE 401-404, 412, 414, 873-879, 892, 893**

- B. The emergency lights, emergency aisle floor lights, and exit identifiers consist of numerous lights and lighted exit signs distributed throughout the passenger compartment and aft accessory compartment, one light in the aft overhead switch panel in the flight compartment, and the overwing emergency evacuation lights located in the fuselage. The emergency lights go on if total ac power loss occurs, or if power is removed from the emergency dc bus. The lights are powered by rechargeable battery packs. To prevent the battery packs energizing the lights by internal power, the emergency lights switches must be placed in the off position before shutting down aircraft power. The batteries must be checked periodically and replaced as necessary.

**WJE ALL**

- C. Each battery pack is transistorized, and contains an etched circuit and rechargeable nickel-cadmium batteries. One emergency light, installed on the aft partition of the electrical power center, is a portable, self-contained unit. It operates in the system circuit or can be removed and used as a flash-light. When the unit is used in the airplane circuit with the flight compartment emergency lights switch placed in the arm position, a 28-volt lamp in the unit glows continually to provide a visual indication that the pack is being charged.
- D. There are four operating conditions of the emergency lights circuit. The conditions are described with the attendant's emergency lights switch, located on the attendant's panel, in the off position. The first condition is with the flight compartment emergency lights switches in the off position. The emergency light not armed light on the annunciator panel is on. The battery packs are receiving a trickle charge from the dc transfer bus. The emergency lights are off. The 28-volt lamp in the portable battery pack is off. With power available to the emergency dc bus, the battery pack circuit is disarmed, preventing operation of the emergency lights from the batteries in the packs.
- E. The second condition of the emergency lights circuit is with the flight compartment emergency light switch in the on position. The emergency light not armed light on the annunciator panel is on. The circuit to the emergency dc bus is open. The emergency lights are on. The 28-volt lamp in the portable battery pack is off. With no power available to the battery pack through the emergency light, forward bias in the battery pack circuit turns the emergency lights on. This condition is established by passing momentarily through the ARM position between the OFF and TEST/ON positions.
- F. The third condition of the emergency lights circuit is with the flight compartment emergency lights switch in the arm position, which is the normal in-flight position. The emergency light not armed light on the annunciator panel is off. The emergency lights are off. The battery packs are receiving a trickle charge at a reduced rate from the emergency dc bus. The 28-volt lamp in the portable battery pack is on. With power available to the emergency dc bus, reverse bias in the battery pack circuit prevents operation of the emergency lights from the batteries in the packs. The 28-volt lamp in the portable unit glows to indicate the battery packs are being charged.

EFFECTIVITY  
WJE ALL

**33-53-00**

TP-80MM-WJE

Page 1  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

- G. The fourth condition of the emergency lights circuit is with the emergency light switch in the arm position if ac power loss occurs. The emergency lights come on until the emergency dc bus is energized through the emergency power control switch from the battery direct bus, until the emergency power control switch is turned off, or the battery is discharged. When the airplane battery is discharged, or the emergency power control switch is turned off, there is no power and the standby lights go off. With no power available to the battery pack through the emergency light switch, forward bias in the battery pack circuit turns the emergency lights on. The emergency lights will remain on until the 2.5-volt batteries are discharged.

**CAUTION:** DO NOT LEAVE EMERGENCY LIGHTS SWITCH, ON OVERHEAD SWITCH PANEL, IN ARM OR ON POSITION WHEN RESTORING ATTENDANT PANEL EMERGENCY LIGHT SWITCH TO OFF POSITION. BATTERIES WILL CONTINUE TO DISCHARGE IF PROPER SEQUENCE IS NOT FOLLOWED.

- H. The emergency lights switch on the forward cabin attendant's panel provides an alternate and independent means of energizing the emergency lights. The attendant's switch is normally locked in the off position and used only to override the flight compartment switch during emergency condition. To prevent accidental use of the emergency lights and inadvertent discharge of the emergency light batteries, the attendant's switch is equipped with a switch guard that is secured by a breakaway lockwire. The lockwire breaks when the switch guard is pulled to gain access to the switch. If the flight compartment switch is in the arm position, placing the attendant's switch in the on position will cause the emergency lights to come on. If the flight compartment switch is in the off position, it is necessary to arm the battery packs by placing the attendant's switch in the arm position momentarily, and releasing to on position, before the emergency lights will come on. When the attendant's switch is used to arm the battery packs, the arming voltage is supplied by the overwing emergency evacuation lights battery packs located in the aft cargo compartment. (LOCKWIRE SAFETYING - MAINTENANCE PRACTICES, PAGEBLOCK 20-10-18/201)

### 2. Care and Maintenance of Emergency Light System Batteries

- A. Optimum performance from the size "D" nickel cadmium (Ni-Cd) cells, in the cabin emergency lighting system, is dependent upon strict adherence to the following practices and methods:
- (1) New batteries must always be installed in sets and should be at the same initial state-of-charge. It is also desirable that these be of the same approximate age to avoid likelihood of an early loss of capacity and voltage by some of the cells.
  - (2) It is mandatory that cells used in a given battery pack be from the same manufacturer. It is also important that all cells, which are either being charged or discharged in a single string, be from the same manufacturer. Differences in the manufacturer's cell internal designs, operating impedance and performance characteristics do not permit equal charging, equal state of charge, or equal cell volt-ages if they are mixed in battery shop chargers or in the battery pack.
  - (3) When operated in the momentary TEST/ON position, operating time should be less than two (2) minutes in order to conserve battery state-of-charge. 1 1/2 hours (90 minutes) of charging time with emergency lights switch in "ARMED" condition or 1 hour (60 minutes) in "OFF" condition should be allowed for each minute in excess of two (2) operating minutes while supplying power to emergency lamps. Batteries must be recharged in this manner or as specified in applicable sections of this manual prior to returning the aircraft to service.
  - (4) Ni-Cd batteries are inherently subject to a partial, time-dependent reduction of available capacity. A major contributor to reduction is the memory effect, which is due to repetitive identical cycles of operation which include partial-capacity discharges. Significant reductions of both terminal voltage and available capacity have been identified due to this phenomenon.
  - (5) Memory effect can be cause of failed pre-flight test or an observed premature reduction of illumination. This effect can be removed by complete discharge of each cell and recharging per following reconditioning instructions.

EFFECTIVITY  
WJE ALL

**33-53-00**

TP-80MM-WJE

Page 2  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

- (a) Complete discharge of cell:

**CAUTION:** DO NOT ATTEMPT TO DISCHARGE TWO OR MORE CELLS IN SERIES.  
PERMANENT DAMAGE CAN BE CAUSED BY POLARITY REVERSAL.

- 1) Individually discharge each cell through circuit load of 0.2 ohms until cell voltage reads less than 0.2 volts while under load.

- (b) Recharge for capacity test or service:

- 1) Cells may be charged individually or in series. Charge at room temperature at 400 milliamperes maximum for 16 hours or at manufacturers recommended rate/time.

**NOTE:** Charge current should not exceed 400 milliamperes at any time. Charge voltage shall be 1.40 to 1.48 per cell while under charge.

### 3. Care and Maintenance of Emergency Lights

- A. Items contributing to reduction of illumination from ceiling emergency lights are dust and accumulation of tar and nicotine from cigarette smoke.

- (1) Both lenses and reflectors of emergency ceiling lights should be washed regularly with mild detergent to maintain lighting efficiency of fixture.

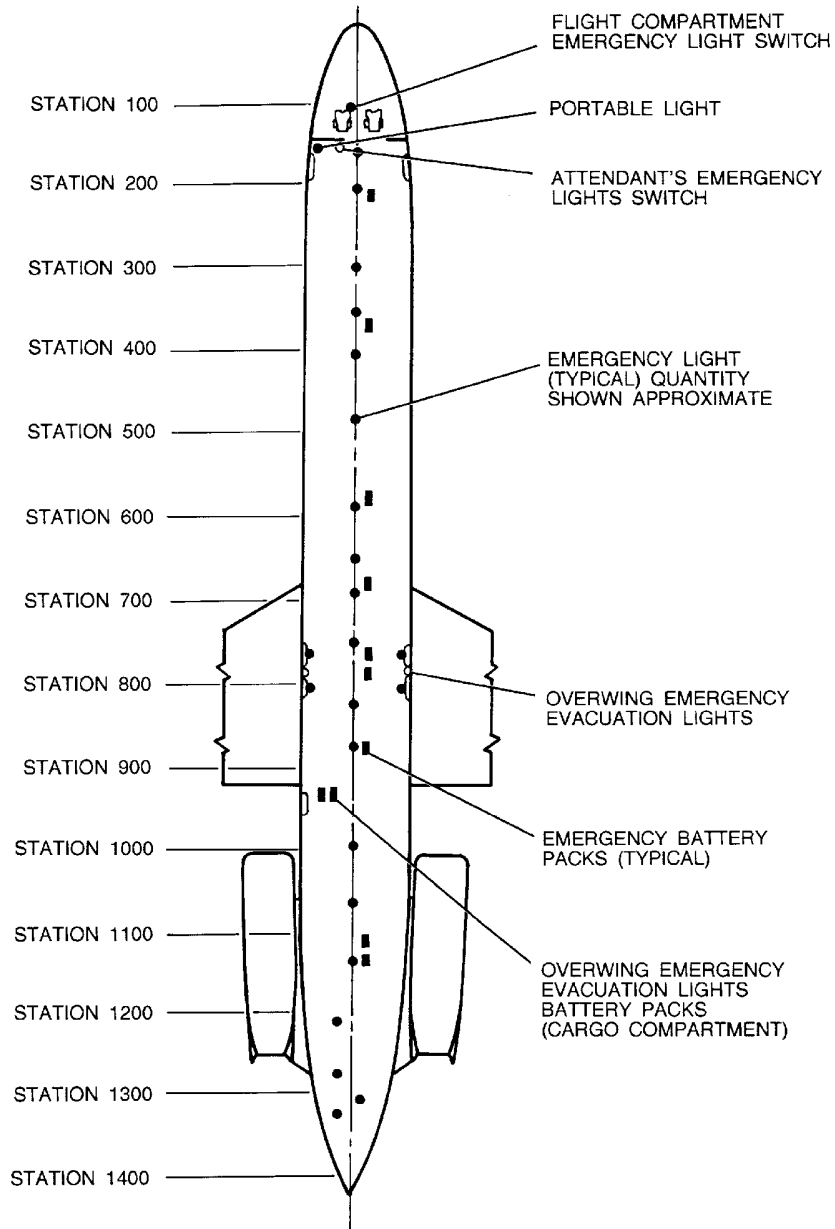
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TP-80MM-WJE

**33-53-00**

Page 3  
Feb 01/2015

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



**NOTE:**  
LIGHT AND BATTERY ARRANGEMENT  
TYPICAL, LOCATIONS SHOWN  
APPROXIMATE.

BBB2-33-313

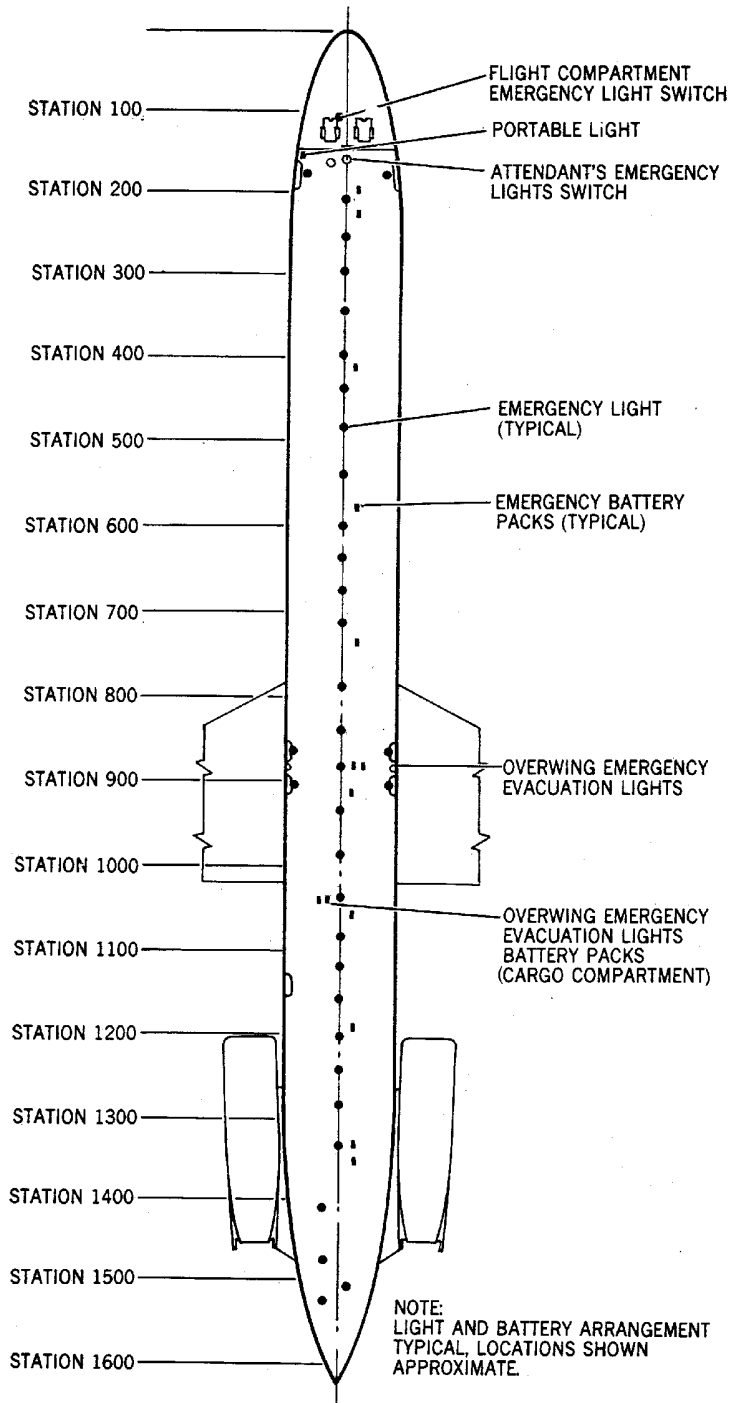
**Emergency Lights and Battery Packs Locations**  
**Figure 1/33-53-00-990-814 (Sheet 1 of 2)**

EFFECTIVITY  
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TP-80MM-WJE

**33-53-00**

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



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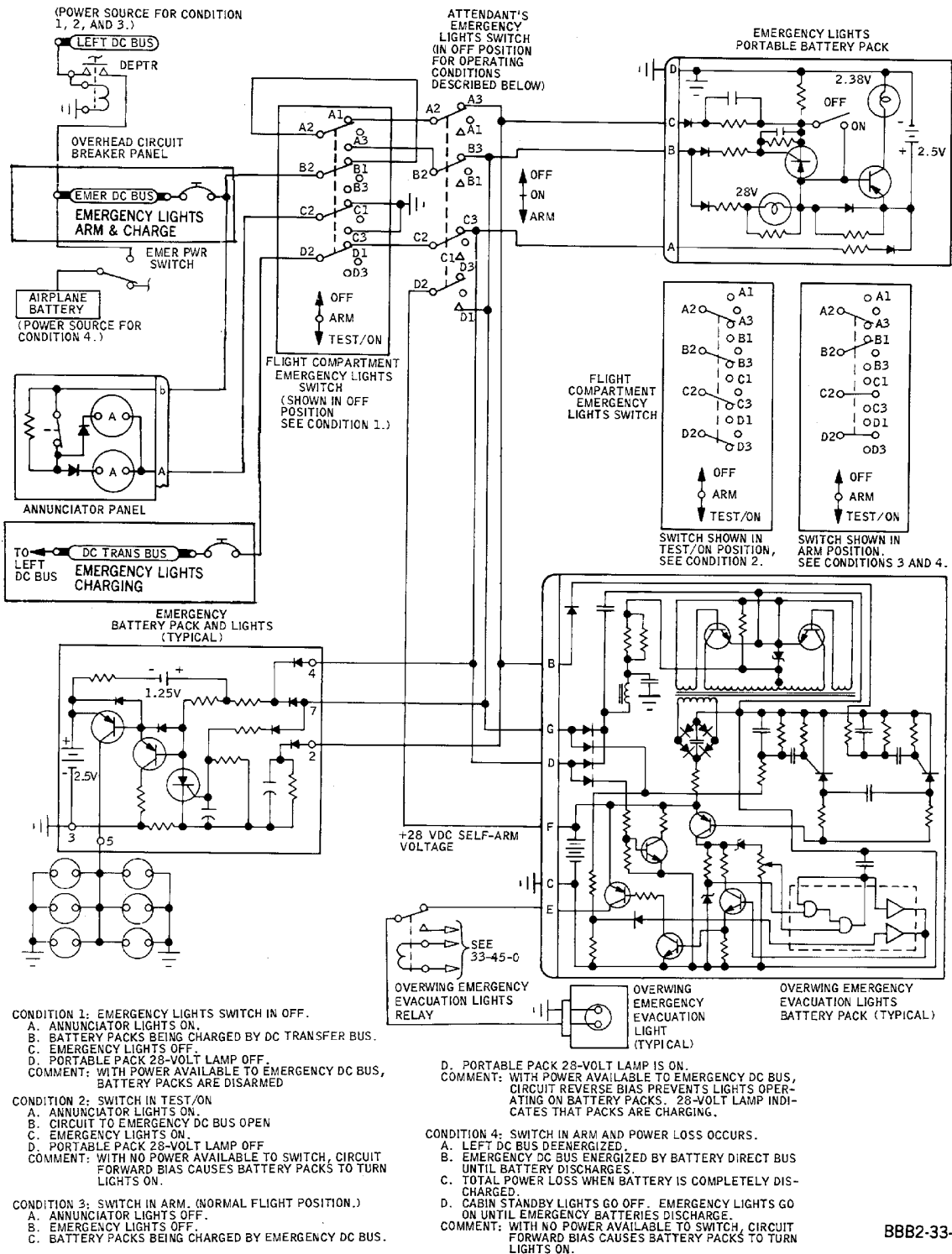
**Emergency Lights and Battery Packs Locations  
Figure 1/33-53-00-990-814 (Sheet 2 of 2)**

EFFECTIVITY  
WJE 401-404, 410, 412, 414, 873-879, 892, 893

**33-53-00**

TP-80MM-WJE

# MD-80 AIRCRAFT MAINTENANCE MANUAL



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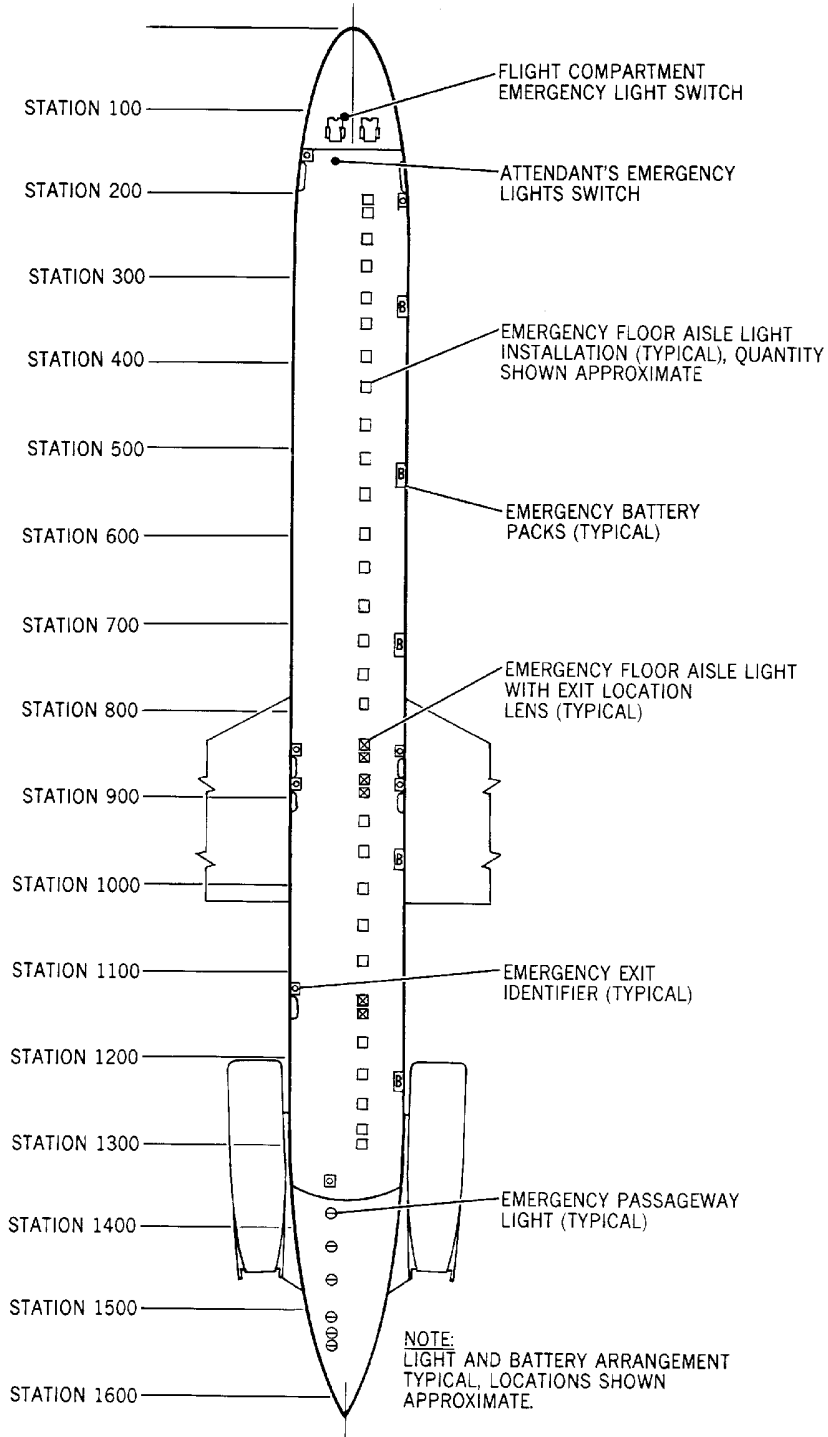
Emergency Lights -- Simplified Schematic  
Figure 2/33-53-00-990-816

EFFECTIVITY  
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33-53-00

TP-80MM-WJE

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



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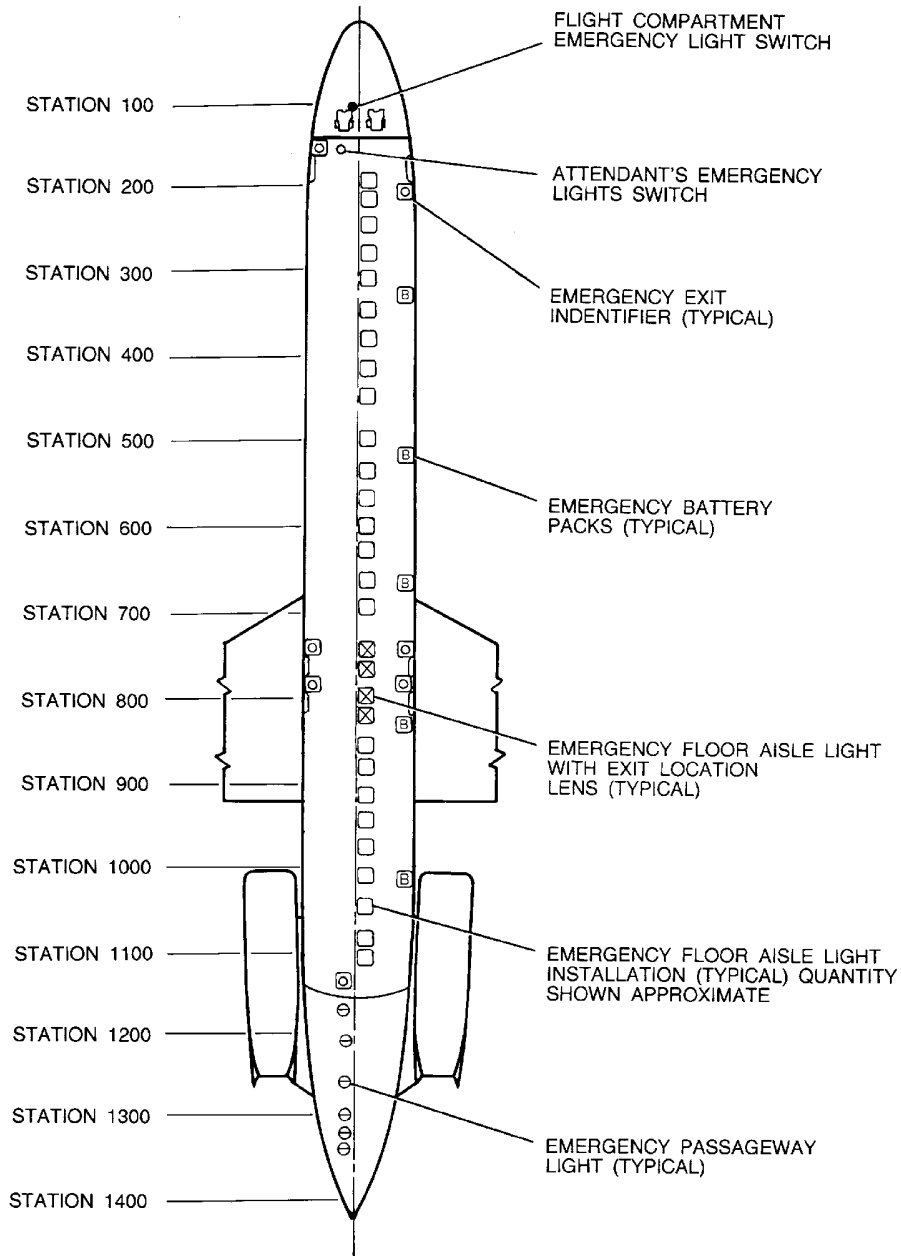
**Emergency Aisle Floor Lights, Passageway Lights, Exit Identifiers, and Battery Packs Locations  
Figure 3/33-53-00-990-818 (Sheet 1 of 2)**

EFFECTIVITY  
WJE 401-404, 412, 414, 873-879, 892, 893

**33-53-00**

TP-80MM-WJE

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



**NOTE:**  
LIGHT AND BATTERY ARRANGEMENT  
TYPICAL, LOCATIONS SHOWN  
APPROXIMATE.

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**Emergency Aisle Floor Lights, Passageway Lights, Exit Identifiers, and Battery Packs Locations  
Figure 3/33-53-00-990-818 (Sheet 2 of 2)**

EFFECTIVITY  
WJE 410

**33-53-00**

TP-80MM-WJE



## MD-80 AIRCRAFT MAINTENANCE MANUAL

### EMERGENCY LIGHTS - REMOVAL/INSTALLATION

#### 1. General

- A. Most of the emergency lights are contained in the normal lighting fixtures. If replacement of a lamp or other fixtures is necessary, refer to the removal/installation procedure for that particular fixture. The following procedures provide instructions for the removal and installation of the overwing emergency exit lights, the cabin emergency light batteries, the cabin emergency lights battery packs located in the cabin, and the overwing emergency evacuation lights emergency battery packs located in the aft cargo compartment.

**CAUTION:** DO NOT LEAVE EMERGENCY LIGHTS SWITCH, ON OVERHEAD SWITCH PANEL, IN ARM OR ON POSITION WHEN RESTORING ATTENDANT PANEL EMERGENCY LIGHT SWITCH TO OFF POSITION. BATTERIES WILL CONTINUE TO DISCHARGE IF PROPER SEQUENCE IS NOT FOLLOWED.

- B. The emergency lights switch on the overhead switch panel and the emergency lights switch on forward attendant's panel, should be placed in the off position before opening the emergency lights arm and charge circuit breaker to prevent inadvertent operation of the emergency battery packs. For each minute of operation, the batteries must charge approximately 1 hour and 30 minutes to recover.

**CAUTION:** AVOID CONTACT BETWEEN TERMINAL SCREW AND POSITIVE CONTACT OF BATTERY HOLDER. DAMAGE TO CHARGING CIRCUITRY MIGHT RESULT.

- C. Replace cabin emergency lights batteries as necessary. They are located inside of battery packs, two "D" size cells in series per pack. Removal of battery pack is not necessary for battery replacement.

NOTE: Battery manufacturer must be the same for both batteries.

#### 2. Removal/Installation Overwing Emergency Exit Lights

Figure 402

- A. Remove Lights

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

**CAUTION:** BEFORE OPENING CIRCUIT BREAKERS, MAKE CERTAIN EMERGENCY LIGHTS SWITCHES ARE IN OFF POSITION.

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

##### **LOWER EPC, DC TRANSFER BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	37	B1-387	EMERGENCY LIGHTS CHARGING

##### **OVERHEAD EMERGENCY DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 401-409, 411, 412, 414-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893</b>			
A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE
<b>WJE 410</b>			
A	15	B1-41	EMERGENCY LIGHTS ARM AND CHARGE

EFFECTIVITY  
WJE ALL

# 33-53-00

TP-80MM-WJE

## MD-80 AIRCRAFT MAINTENANCE MANUAL

**WJE ALL**

- (2) Remove emergency exit light cover by pressing up on lower flange.
- (3) Remove lamps.
- (4) Remove support attaching screws.
- (5) Disconnect electrical wiring.

**B. Install Light**

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Make sure that these circuit breakers are open and have safety tags:

**LOWER EPC, DC TRANSFER BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	37	B1-387	EMERGENCY LIGHTS CHARGING

**OVERHEAD EMERGENCY DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 401-409, 411, 412, 414-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893</b>			
A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE

**WJE 410**

A	15	B1-41	EMERGENCY LIGHTS ARM AND CHARGE
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**WJE ALL**

- (2) Connect electrical wiring.
- (3) Position support on brackets and install attaching screws.
- (4) Install lamps.
- (5) Install emergency exit light cover by pressing up on lower flange.
- (6) Remove the safety tags and close these circuit breakers:

**LOWER EPC, DC TRANSFER BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	37	B1-387	EMERGENCY LIGHTS CHARGING

**OVERHEAD EMERGENCY DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 401-409, 411, 412, 414-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893</b>			
A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE

**WJE 410**

A	15	B1-41	EMERGENCY LIGHTS ARM AND CHARGE
---	----	-------	---------------------------------

**WJE ALL**

- (7) Perform operational check to check proper operation of lights (EMERGENCY LIGHTS - CHECK, PAGEBLOCK 33-53-00/601).

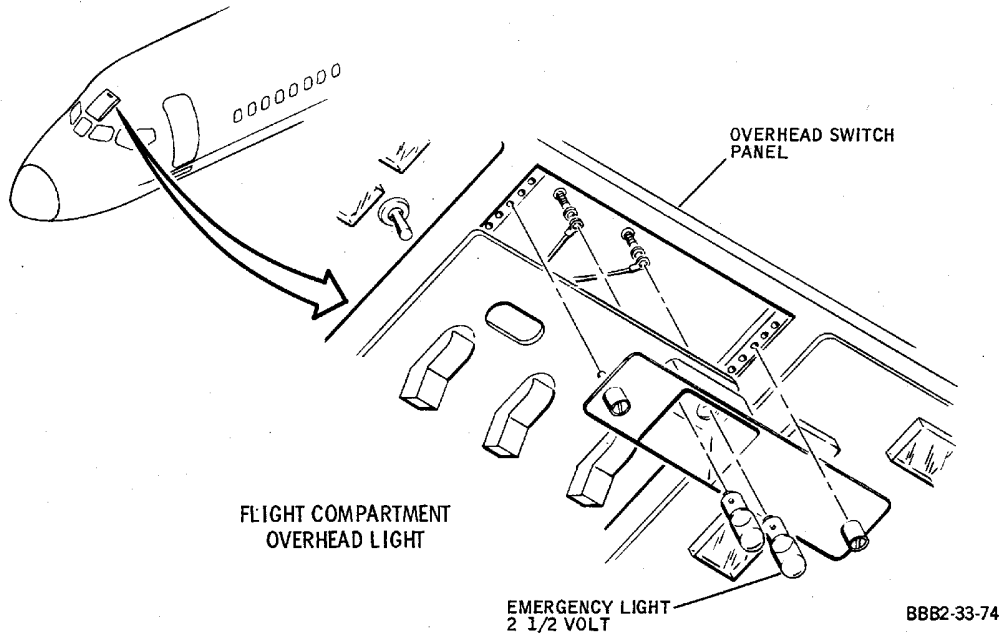
EFFECTIVITY  
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**33-53-00**

TP-80MM-WJE

Page 402  
Feb 01/2016

# MD-80 AIRCRAFT MAINTENANCE MANUAL



**Forward Fuselage Emergency Lights -- Removal/Installation**  
**Figure 401/33-53-00-990-801**

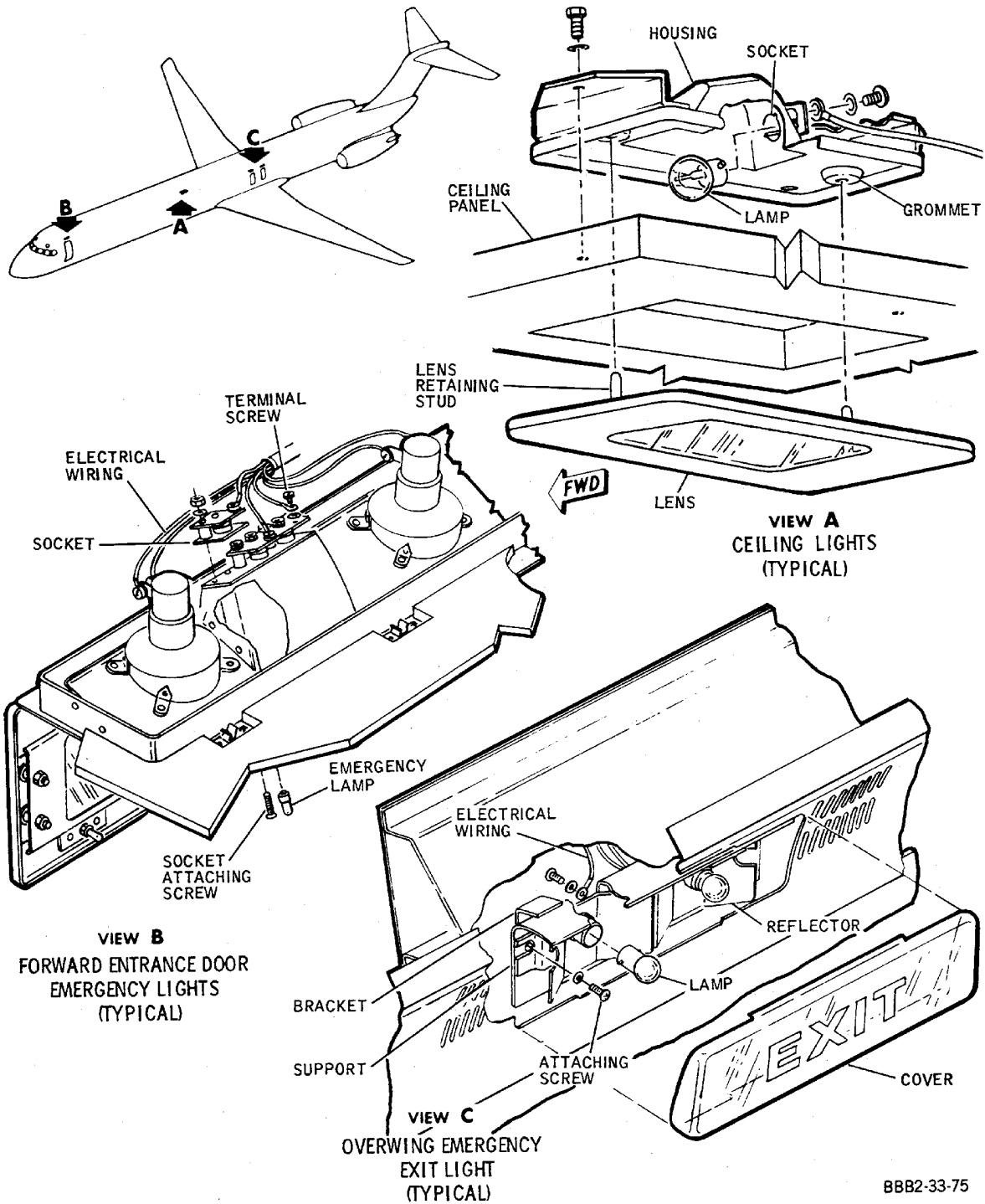
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TP-80MM-WJE

**33-53-00**

Page 403  
Feb 01/2015

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



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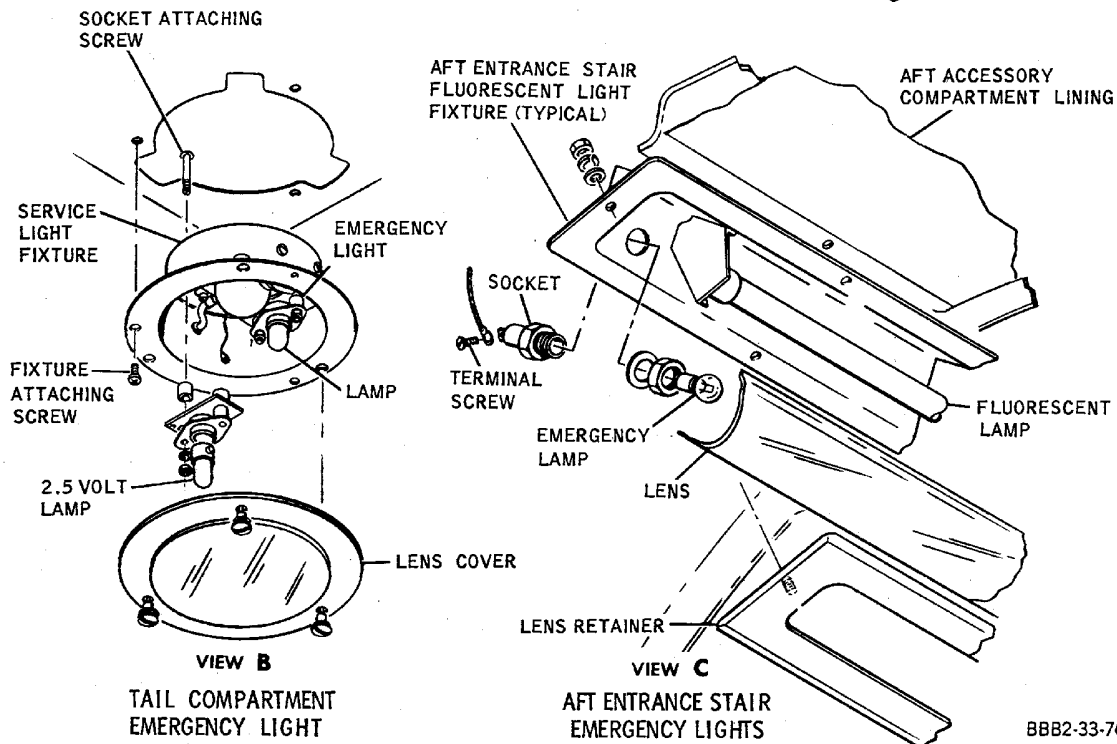
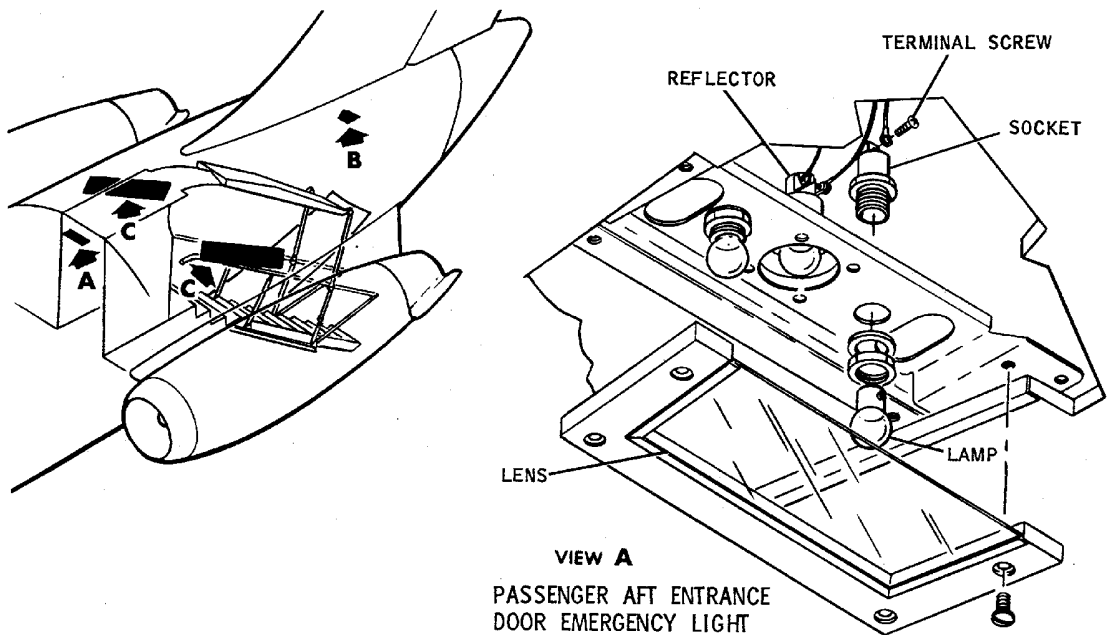
**Passenger Compartment Emergency Lights -- Removal/Installation  
Figure 402/33-53-00-990-802**

EFFECTIVITY  
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**33-53-00**

TP-80MM-WJE

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



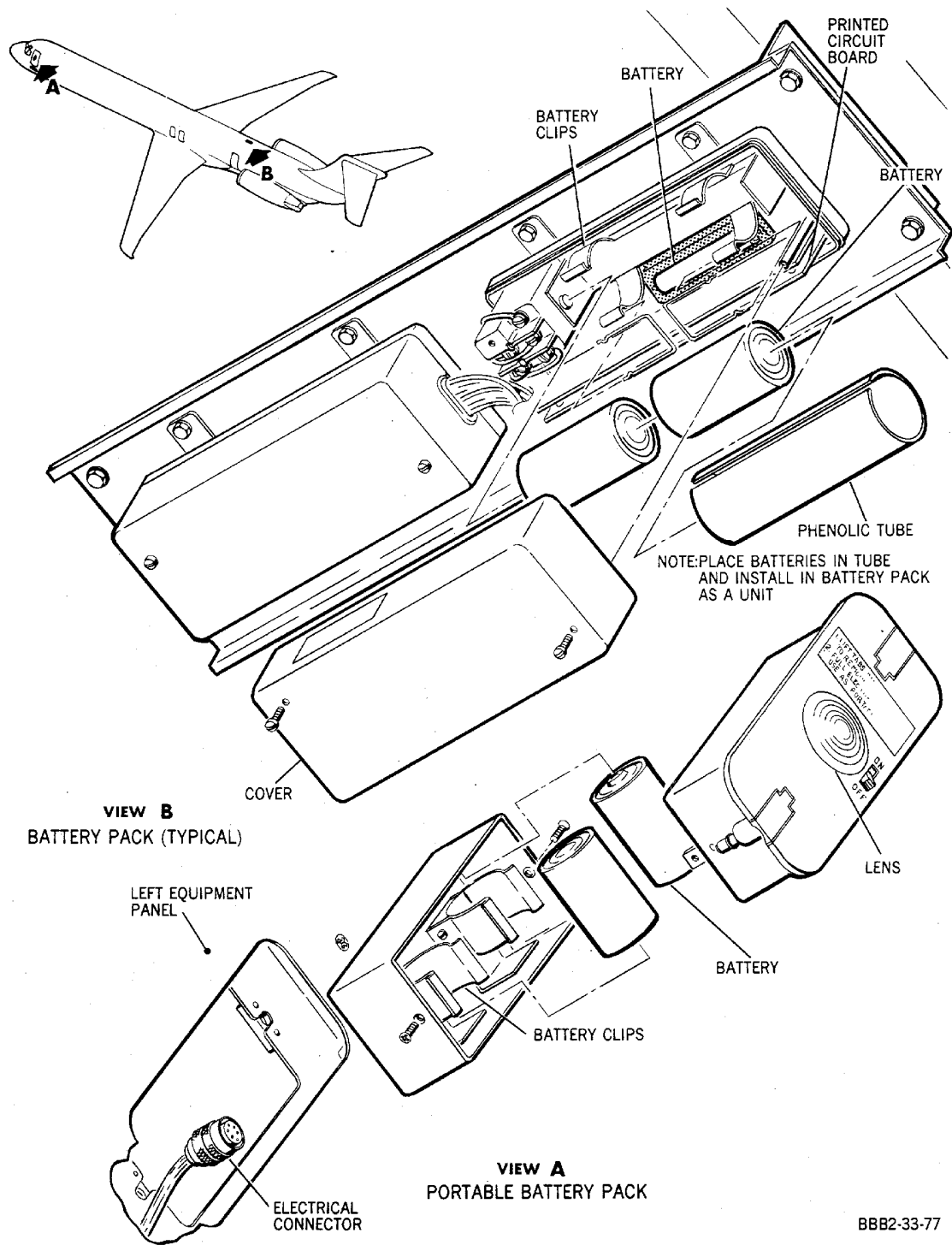
**Aft Fuselage Emergency Lights -- Removal/Installation  
Figure 403/33-53-00-990-803**

EFFECTIVITY  
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**33-53-00**

TP-80MM-WJE

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



**Cabin Emergency Lights Battery Packs -- Removal/Installation**  
**Figure 404/33-53-00-990-804**

EFFECTIVITY  
WJE ALL

**33-53-00**

TP-80MM-WJE

Page 406  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### 3. Removal/Installation Battery Packs

#### A. Remove Cabin Emergency Lights Battery Pack

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

**CAUTION:** BEFORE OPENING CIRCUIT BREAKERS MAKE CERTAIN EMERGENCY LIGHTS SWITCHES ARE IN OFF POSITION.

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

#### **LOWER EPC, DC TRANSFER BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	37	B1-387	EMERGENCY LIGHTS CHARGING

#### **OVERHEAD EMERGENCY DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 401-409, 411, 412, 414-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893</b>			
A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE

#### **WJE 410**

A	15	B1-41	EMERGENCY LIGHTS ARM AND CHARGE
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#### **WJE ALL**

- (2) Gain access to battery packs as follows:
- (a) Aft battery packs - Remove aft right lavatory ceiling panel and disconnect speaker wires from terminal strip on vertical panel.
  - (b) Mid-cabin battery packs - Remove access panel in cabin section.
  - (c) Forward battery packs - Open cabin forward drop ceiling access door.
- (3) Remove cover attaching screws and lift cover from battery pack.
- (4) Disconnect electrical wiring.
- (5) Remove attaching screws and remove battery pack.

#### B. Install Cabin Emergency Lights Battery Pack

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Make sure that these circuit breakers are open and have safety tags:

#### **LOWER EPC, DC TRANSFER BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	37	B1-387	EMERGENCY LIGHTS CHARGING

#### **OVERHEAD EMERGENCY DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 401-409, 411, 412, 414-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893</b>			
A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE

EFFECTIVITY  
WJE ALL

# 33-53-00

TP-80MM-WJE

## MD-80 AIRCRAFT MAINTENANCE MANUAL

WJE 401-409, 411, 412, 414-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893 (Continued)

(Continued)

### OVERHEAD EMERGENCY DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 410</b>			
A	15	B1-41	EMERGENCY LIGHTS ARM AND CHARGE

**WJE ALL**

- (2) Position battery pack on support and install attaching screws.
- (3) Connect electrical wiring to battery pack.
- (4) Position cover on battery pack and install attaching screws.
- (5) Close access as follows:
  - (a) Aft battery packs - Connect speaker wires to terminal strip and install right lavatory ceiling panel.
  - (b) Mid-cabin battery packs - Install access panel in cabin ceiling.
  - (c) Forward battery packs - Close cabin forward drop ceiling access door.
- (6) Remove the safety tags and close these circuit breakers:

### LOWER EPC, DC TRANSFER BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	37	B1-387	EMERGENCY LIGHTS CHARGING

### OVERHEAD EMERGENCY DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 401-409, 411, 412, 414-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893</b>			
A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE
<b>WJE 410</b>			
A	15	B1-41	EMERGENCY LIGHTS ARM AND CHARGE

**WJE ALL**

- (7) Perform operational check to check proper operation of circuit. (EMERGENCY LIGHTS - CHECK, PAGEBLOCK 33-53-00/601)
- C. Remove Overwing Emergency Evacuation Lights Emergency Battery Pack

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

**CAUTION:** BEFORE OPENING CIRCUIT BREAKERS, MAKE CERTAIN EMERGENCY LIGHTS SWITCHES ARE IN OFF POSITION.

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

### LOWER EPC, DC TRANSFER BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	37	B1-387	EMERGENCY LIGHTS CHARGING

EFFECTIVITY	
WJE ALL	

# 33-53-00



## MD-80 AIRCRAFT MAINTENANCE MANUAL

### OVERHEAD EMERGENCY DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 401-409, 411, 412, 414-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893</b>			
A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE
<b>WJE 410</b>			
A	15	B1-41	EMERGENCY LIGHTS ARM AND CHARGE

#### WJE 875-879, 886, 887

- (2) Gain access to battery packs located in aft cargo compartment ceiling (access panel 5719C).
- (3) Disconnect electrical wiring.
- (4) Remove attaching screws and remove battery pack.

#### WJE 401-412, 414-427, 429, 861-866, 868, 869, 871-874, 880, 881, 883, 884, 891-893

- (5) On aircraft without an auxiliary fuel tank installed in aft cargo compartment, remove battery pack as follows:
  - (a) Remove aft cargo compartment ceiling (access panel 5719C) to gain access to battery pack  
(PAGEBLOCK 25-52-01/201).
  - (b) Disconnect electrical wiring connector.
  - (c) Remove attaching screws and remove battery pack from mounting support.
- (6) On aircraft equipped with an auxiliary fuel tank installed in aft cargo compartment, remove battery pack as follows:
 

NOTE: On MD-82 and MD-83 aircraft, remove main cabin floor (access panel 5829D) to gain access to battery pack. (FLIGHT AND PASSENGER COMPARTMENT FLOOR PANELS, SUBJECT 53-20-01, Page 201)

NOTE: On MD-87 aircraft, remove main cabin floor (access panel 5831E) to gain access to battery pack. (FLIGHT AND PASSENGER COMPARTMENT FLOOR PANELS, SUBJECT 53-20-01, Page 201)

  - (a) Remove attaching hardware from battery pack mounting support.
  - (b) Lift up battery pack mounting support to gain access to battery pack electrical wiring connector.
  - (c) Disconnect electrical connector from battery pack.
  - (d) Remove screws attaching battery pack to mounting support and remove battery pack.

#### WJE ALL

- D. Install Overwing Emergency Evacuation Lights Emergency Battery Pack

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Make sure that these circuit breakers are open and have safety tags:

### LOWER EPC, DC TRANSFER BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	37	B1-387	EMERGENCY LIGHTS CHARGING

EFFECTIVITY  
WJE ALL

# 33-53-00

TP-80MM-WJE

Page 409  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### OVERHEAD EMERGENCY DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 401-409, 411, 412, 414-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893</b>			
A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE
<b>WJE 410</b>			
A	15	B1-41	EMERGENCY LIGHTS ARM AND CHARGE

#### WJE 875-879, 886, 887

- (2) Position battery pack on support and install attaching screws.
- (3) Connect electrical wiring.

#### WJE 401-412, 414-427, 429, 861-866, 868, 869, 871-874, 880, 881, 883, 884, 891-893

- (4) On aircraft without an auxiliary fuel tank installed in aft cargo compartment, install battery pack as follows:
  - (a) Position battery pack on mounting support and install attaching screws.

**CAUTION:** DAMAGE TO CONNECTOR MAY RESULT BY SHORTING PIN "F" TO WIRING CONNECTOR SHELL IF CONNECTOR ASSEMBLIES ARE NOT ALIGNED WHEN MATED.

- (b) Connect electrical connector making certain connector is keyed to battery receptacle.
- (5) On aircraft equipped with an auxiliary fuel tank installed in aft cargo compartment, install battery pack as follows:
  - (a) Position battery pack on mounting support and install attaching screws.

**CAUTION:** DAMAGE TO CONNECTOR MAY RESULT BY SHORTING PIN "F" TO WIRING CONNECTOR SHELL IF CONNECTOR ASSEMBLIES ARE NOT ALIGNED WHEN MATED.

- (b) Connect electrical connector making certain connector is keyed to battery receptacle.
- (c) Install battery pack mounting support and install attaching hardware.

#### WJE ALL

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

### LOWER EPC, DC TRANSFER BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	37	B1-387	EMERGENCY LIGHTS CHARGING

### OVERHEAD EMERGENCY DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 401-409, 411, 412, 414-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893</b>			
A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE
<b>WJE 410</b>			
A	15	B1-41	EMERGENCY LIGHTS ARM AND CHARGE

#### WJE ALL

- (7) Perform operational check to check proper operation of circuit (EMERGENCY LIGHTS - CHECK, PAGEBLOCK 33-53-00/601).

EFFECTIVITY  
WJE ALL

# 33-53-00

TP-80MM-WJE

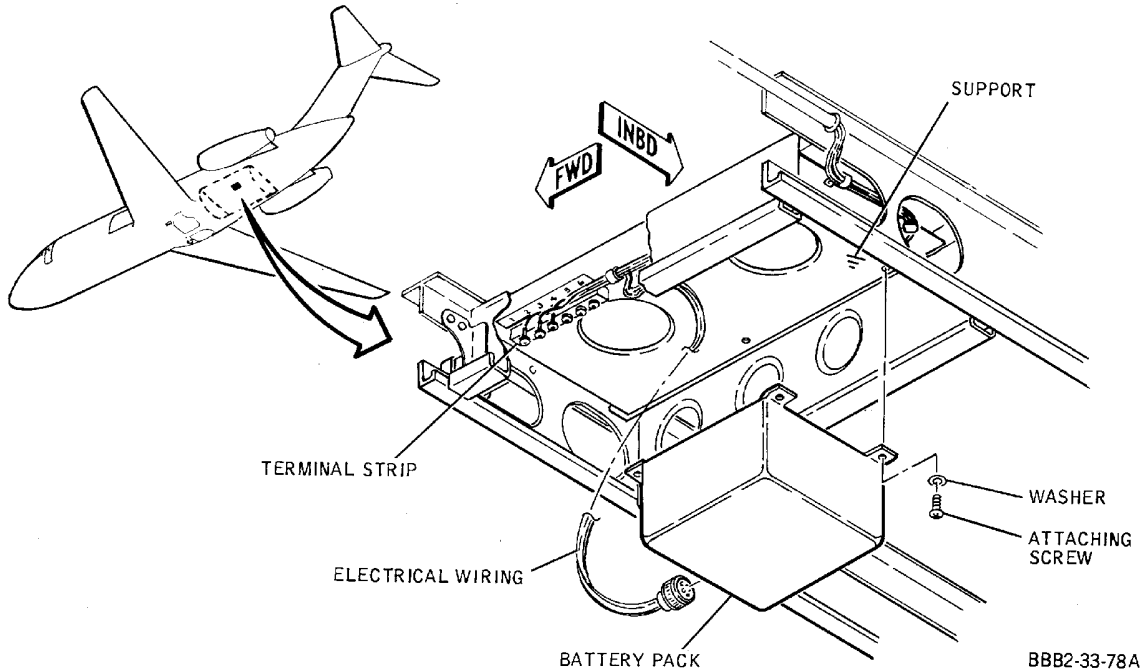
Page 410  
Feb 01/2016

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**

WJE 401-412, 414-427, 429, 861-866, 868, 869, 871-874, 880, 881, 883, 884, 891-893

(8) Install access panel.

WJE ALL



**Emergency Battery Pack -- Overwing Emergency Evacuation Lights  
Figure 405/33-53-00-990-806**

**4. Removal/Installation Aft Evacuation Slide Emergency Light**

NOTE: Ref. Figure 406

A. Remove Light

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

**CAUTION:** BEFORE OPENING CIRCUIT BREAKERS, MAKE CERTAIN EMERGENCY LIGHTS SWITCHES ARE IN OFF POSITION.

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

**LOWER EPC, DC TRANSFER BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	37	B1-387	EMERGENCY LIGHTS CHARGING

**OVERHEAD EMERGENCY DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE

WJE 401-409, 411, 412, 414-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893

EFFECTIVITY  
WJE ALL

**33-53-00**

TP-80MM-WJE

## MD-80 AIRCRAFT MAINTENANCE MANUAL

WJE 401-409, 411, 412, 414-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893 (Continued)

(Continued)

### OVERHEAD EMERGENCY DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 410</b>			
A	15	B1-41	EMERGENCY LIGHTS ARM AND CHARGE

WJE ALL

NOTE: Relamping can be accomplished by turning retaining screws one-quarter turn and opening cover and lens unit downward on hinge.

- (2) Remove attaching screws from mounting tabs.
- (3) Disconnect electrical wiring.

B. Install Light

**WARNING:** TAG AND SAFETY CIRCUIT BREAKERS.

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Make sure that these circuit breakers are open and have safety tags:

### LOWER EPC, DC TRANSFER BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	37	B1-387	EMERGENCY LIGHTS CHARGING

### OVERHEAD EMERGENCY DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 401-409, 411, 412, 414-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893</b>			
A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE
<b>WJE 410</b>			
A	15	B1-41	EMERGENCY LIGHTS ARM AND CHARGE

WJE ALL

- (2) Connect electrical wiring.
- (3) Position light and install attaching screws.
- (4) Remove the safety tags and close these circuit breakers:

### LOWER EPC, DC TRANSFER BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	37	B1-387	EMERGENCY LIGHTS CHARGING

### OVERHEAD EMERGENCY DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 401-409, 411, 412, 414-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893</b>			
A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE
<b>WJE 410</b>			
A	15	B1-41	EMERGENCY LIGHTS ARM AND CHARGE

EFFECTIVITY  
WJE ALL

**33-53-00**

TP-80MM-WJE

Page 412  
Feb 01/2016

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**

**WJE ALL**

- (5) Perform operational check  
(EMERGENCY LIGHTS - CHECK, PAGEBLOCK 33-53-00/601).

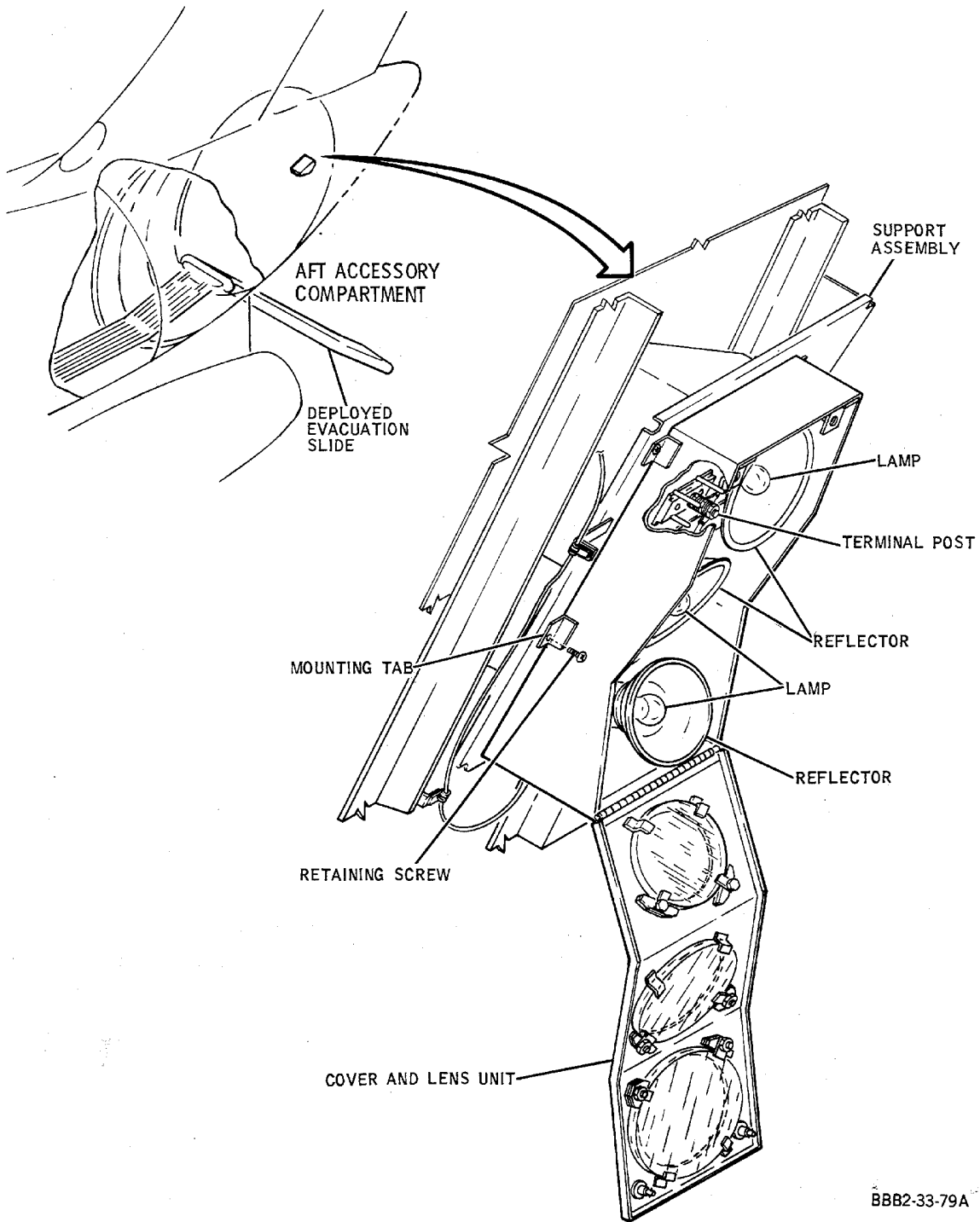
EFFECTIVITY  
WJE ALL

TP-80MM-WJE

**33-53-00**

Page 413  
Feb 01/2016

# MD-80 AIRCRAFT MAINTENANCE MANUAL



BBB2-33-79A

**Aft Evacuation Slide Emergency Light -- Removal/Installation**  
**Figure 406/33-53-00-990-808**

EFFECTIVITY  
WJE ALL

**33-53-00**

TP-80MM-WJE

Page 414  
Feb 01/2015

**MD-80**  
**AIRCRAFT MAINTENANCE MANUAL**  
**EMERGENCY LIGHTS - REMOVAL/INSTALLATION**

**1. General**

A. This procedure contains MSG-3 task card data.

**TASK 33-53-00-902-801**

**2. Restore the Emergency Light Battery Packs**

NOTE: This procedure is a scheduled maintenance task.

**A. References**

<u>Reference</u>	<u>Title</u>
33-53-00 P/B 401	EMERGENCY LIGHTS - REMOVAL/INSTALLATION
33-53-00 P/B 601	EMERGENCY LIGHTS - CHECK

**B. Restore the Emergency Light Battery Packs**

**SUBTASK 33-53-00-020-001**

- (1) Do a restoration of the following emergency light battery packs:
- (a) Remove the emergency exit battery packs. (EMERGENCY LIGHTS - REMOVAL/INSTALLATION, PAGEBLOCK 33-53-00/401)
  - (b) Remove the cabin fuselage battery packs. (EMERGENCY LIGHTS - REMOVAL/INSTALLATION, PAGEBLOCK 33-53-00/401)
  - (c) Remove overwing emergency battery packs. (EMERGENCY LIGHTS - REMOVAL/INSTALLATION, PAGEBLOCK 33-53-00/401)

**SUBTASK 33-53-00-510-001**

- (2) Send the emergency battery packs to the shop for restoration.

**SUBTASK 33-53-00-420-001**

- (3) Install the following serviceable emergency battery packs:
- (a) Emergency exit battery packs. (EMERGENCY LIGHTS - REMOVAL/INSTALLATION, PAGEBLOCK 33-53-00/401)
  - (b) Cabin fuselage battery packs. (EMERGENCY LIGHTS - REMOVAL/INSTALLATION, PAGEBLOCK 33-53-00/401)
  - (c) Overwing emergency battery packs. (EMERGENCY LIGHTS - REMOVAL/INSTALLATION, PAGEBLOCK 33-53-00/401)

**SUBTASK 33-53-00-710-002**

- (4) Do an operational check of the of the emergency lights battery packs. (EMERGENCY LIGHTS - CHECK, PAGEBLOCK 33-53-00/601)

**C. Job Close-up**

**SUBTASK 33-53-00-942-001**

- (1) Remove all the tools and equipment from the work area. Make sure the area is clean.

———— **END OF TASK** ————

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

**33-53-00**

Config 1  
Page 401  
Feb 01/2015

**MD-80  
AIRCRAFT MAINTENANCE MANUAL  
EMERGENCY LIGHTS - ADJUSTMENT/TEST**

**1. General**

- A. The emergency lighting systems include three dissimilar types of emergency battery packs: emergency exit, cabin fuselage, and overwing emergency evacuation. Basic circuits for each unit include 28 vdc, arm, and off. The entire system is wired in parallel, failure of any one unit will not effect the operation of remaining units.

**WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893**

- B. System operation is controlled by the positioning of the emergency lights switch located on the overhead switch panel or the cabin fuselage attendants panel (a guarded switch is normally safety wired in off position).

**WJE ALL**

- C. EMERGENCY LIGHTS ARM & CHARGE circuit breaker located on emergency dc bus section of overhead circuit breaker panel and EMERGENCY LIGHTS CHARGING circuit breaker located on dc transfer bus section of lower EPC circuit breaker panel when energized provide 28 vdc control voltages. Each battery pack contains internal solid-state logic circuits to regulate steady trickle charge automatically and set up response to arm or off condition.

**WJE 405-411, 415-427, 429, 861-866, 868, 869, 871, 872, 880, 881, 883, 884, 886, 887, 891**

- D. Procedures are given for the emergency lights luminosity test.

**WJE 401-404, 412, 414, 873-879, 892, 893**

- E. Procedures are given for the emergency lights luminosity test. Luminosity testing is to confirm that the cabin overhead emergency lighting levels meet those required by the FAA. For the test to be effective, the emergency floor lighting system is not to be included. All emergency aisle floor lights, exit identifiers, and passageway lights are to be concealed (covered over by a light blocking material) or deactivated so as not to interfere with the luminosity readings.

**WJE ALL**

- F. Procedures are given for testing the lighted emergency exit sign system for proper function and operation.

**2. Equipment and Materials**

NOTE: Equivalent substitutes may be used instead of the following listed items.

NOTE: Some materials in the Equipment and Materials list may not be permitted to be used in your location. Persons in each location must make sure they are permitted to use these materials. All persons must obey all applicable federal, state, local, and provincial regulations for their location.

**Table 501**

Name and Number	Manufacturer
DC milliammeter 0 to 500(±1.0) ma	
Multimeter 2000A	Dana
Ammeter 0 to 10(±0.5) amps	
Standard lamp load (Six No. 1315 lamps connected in parallel, with a pair of 18 gauge wires, 18 inches (457 mm) long attached)	
Emergency lights adaptor assembly ( Figure 501)	
Lamp 50 watt 4593 (1.8A Nominal)	General Electric

EFFECTIVITY  
WJE ALL

**33-53-00**

TP-80MM-WJE



## MD-80 AIRCRAFT MAINTENANCE MANUAL

Table 501 (Continued)

Name and Number	Manufacturer
Photometer/Radio-meter J-16	Tektronix
Illuminance probe J-6511	Tektronix
Light Intensity Test Adapter 5953642	Ref. Tool and Equipment List, 33-50-1
Masking Tape	
Stop watch	

### 3. De-energize Emergency Light Circuit

**NOTE:** The following procedure should be used when necessary to remove a lamp or battery pack from emergency light circuit.

#### A. De-energize Light Circuit

- (1) Place emergency lights switch located on overhead switch panel in off position. Check that attendants emergency lights switch located on attendant's panel is in guarded OFF position.

**NOTE:** If the switch is not positioned to OFF before opening the circuit breakers, emergency lights will come on.

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

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

#### LOWER EPC, DC TRANSFER BUS

Row	Col	Number	Name
Z	37	B1-387	EMERGENCY LIGHTS CHARGING

#### OVERHEAD EMERGENCY DC BUS

Row	Col	Number	Name
<b>WJE 401-409, 411, 412, 414-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893</b>			
A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE
<b>WJE 410</b>			
A	15	B1-41	EMERGENCY LIGHTS ARM AND CHARGE

#### WJE ALL

- (3) Remove and replace emergency light or battery pack as necessary.
- (4) Remove the safety tags and close these circuit breakers:

#### LOWER EPC, DC TRANSFER BUS

Row	Col	Number	Name
Z	37	B1-387	EMERGENCY LIGHTS CHARGING

#### OVERHEAD EMERGENCY DC BUS

Row	Col	Number	Name
<b>WJE 401-409, 411, 412, 414-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893</b>			
A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE

EFFECTIVITY  
WJE ALL

# 33-53-00

TP-80MM-WJE

Page 502  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

WJE 401-409, 411, 412, 414-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893 (Continued)

(Continued)

### OVERHEAD EMERGENCY DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 410</b>			
A	15	B1-41	EMERGENCY LIGHTS ARM AND CHARGE

WJE ALL

#### 4. Adjustment/Test Emergency Lights

- A. System Integrity Test - Battery Pack Installed

WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893

NOTE: Conduct this portion of test using emergency lights switch located on overhead switch panel. Maintain attendant's emergency lights switch in off guarded and safetied position.

WJE ALL

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

### OVERHEAD EMERGENCY DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 401-409, 411, 412, 414-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893</b>			
A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE
<b>WJE 410</b>			
A	15	B1-41	EMERGENCY LIGHTS ARM AND CHARGE

WJE ALL

CAUTION: EMERGENCY LIGHTS MUST NOT REMAIN ON LONGER THAN MINIMUM PERIOD ACTUALLY REQUIRED. NEVER EXCEED 1-MINUTE PERIOD FOR TEST. FOR EACH MINUTE ON, BATTERIES MUST BE ON CHARGE APPROXIMATELY 1 HOUR AND 30 MINUTES TO RECOVER.

- (2) Place EMERGENCY LIGHTS switch on overhead switch panel in ON position. Emergency lights should come on.
- (3) Observe that overwing emergency evacuation lights both left and right are illuminated. If illumination is unsatisfactory, associated battery pack located in aft cargo compartment should be removed and tested according to procedure in Paragraph 4.D..
- (4) At any convenient emergency light between stations 140 and 188 perform following steps:
  - (a) Remove lamp from emergency light fixture.
  - (b) Install lamp in Emergency Lights Adaptor. (Figure 501)
  - (c) Connect multimeter to Emergency Lights Adaptor.
  - (d) Install Emergency Lights Adaptor connector into empty emergency light fixture socket.
- (5) Multimeter should indicate minimum of 1.8-volts.
- (6) Perform Paragraph 4.A.(4) and Paragraph 4.A.(5) at any convenient emergency light between each of following locations:

**Table 502**

Y261 to Y374	Y866 to Y980
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EFFECTIVITY  
WJE ALL

**33-53-00**

TP-80MM-WJE

Page 503  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

**Table 502 (Continued)**

Y412 to Y526	Y1017 to Y1136
Y564 to Y677	Y1173 to Y1249
Y715 to Y828	Portable Pack

(7) Place EMERGENCY LIGHTS switch on overhead switch panel in OFF position.

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

(8) Open the following circuit breakers

**OVERHEAD EMERGENCY DC BUS**

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

**WJE 401-409, 411, 412, 414-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893**

A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE
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**WJE 410**

A	15	B1-41	EMERGENCY LIGHTS ARM AND CHARGE
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**WJE ALL**

B. Test Battery Charge - Battery Pack Cabin Fuselage Units

**NOTE:** This portion of test does not apply to portable battery pack (Paragraph 4.C.) or to overwing emergency evacuation light battery packs (Paragraph 4.D.).

- (1) Connect 28-volt dc power source and milliammeter in series between positive terminal 4 and negative terminal 3.
- (2) Normal milliammeter indication should be between 250 and 280 milliamperes.
- (3) Remove power source and meter. Connect power source and milliammeter in series between positive terminal 7 and negative terminal 3.
- (4) Charging current should be between 160 and 190 milliamperes.
- (5) Charge battery continuously for 20 (±1) hours through positive terminal 4 (Paragraph 4.B.(2) above ) or for 30 (±1) hours through positive terminal 7 (Paragraph 4.B.(4) above) to negative terminal 3.
- (6) Install standard lamp load. (Paragraph 2.)
- (7) Discharge battery for period of 20 minutes (maximum).
- (8) Measure voltage between positive terminal 5 and negative terminal 3, initial readings should be 2.2 volts or greater. Meter indication should be 1.9 volts or more at end of 20 minutes.

**CAUTION:** IF VOLTAGE DECREASES BELOW 1.9 VOLTS AT ANY TIME, DISCONTINUE TEST AND RECHARGE BATTERY AS OUTLINED IN PARAGRAPH 4.B.(3) THROUGH PARAGRAPH 4.B.(5).

- (9) Remove standard lamp load.
- (10) Charge battery as outlined in Paragraph 4.B.(3) through Paragraph 4.B.(5).
- (11) Remove milliammeter.

**NOTE:** Before installation, batteries should be charged at a constant rate of 300 milliamperes for 20 to 24 hours.

C. Test Battery Charge - Battery Pack (Portable)

EFFECTIVITY	
WJE ALL	

33-53-00

## MD-80 AIRCRAFT MAINTENANCE MANUAL

- (1) Place battery pack ON-OFF switch in OFF position.
- (2) Connect 28-volt dc power source and milliammeter between positive pin A and negative pin D.
- (3) Milliammeter should indicate between 170 and 200 milliamperes.
- (4) Remove power source and milliammeter. Connect power source and milliammeter in series between positive pin B and negative pin D.
- (5) The 28-volt lamp should come on and 2.38-volt lamp should remain off.
- (6) Charging current should be between 240 and 300 milliamperes.
- (7) Charge battery for 30 hours continuously. Do not exceed 35 hours charging time.
- (8) Remove power source and milliammeter.
- (9) The 2.38-volt lamp should come on and 28-volt lamp should go off.
- (10) Place ON-OFF switch to ON position and then to OFF position. The 2.38-volt lamp should go off.
- (11) Place ON-OFF switch to ON position, 2.38-volt lamp should come on.
- (12) Discharge battery through 2.38-volt lamp for four hours; lamp should remain on.

**CAUTION:** IF LAMP GOES OFF ANY TIME, DISCONTINUE TEST AND RECHARGE BATTERY AS OUTLINED IN PARAGRAPH 4.C.(4) THROUGH PARAGRAPH 4.C.(7).

- (13) Charge battery as outlined in Paragraph 4.C.(4) through Paragraph 4.C.(7).
  - (14) Remove power source and milliammeter.
  - (15) The 2.38-volt lamp should come on and 28-volt lamp should go off.
  - (16) Connect power source and milliammeter between positive pin C and negative pin D. The 2.38-volt lamp should go off.
  - (17) Remove power source. The 2.38-volt lamp should remain off.
  - (18) Place ON-OFF switch in OFF position.
- D. Test Battery Charge - Overwing Emergency Evacuation Battery Pack (Packs Removed from Aircraft)
- (1) Check battery packs for visible damage and clean battery terminals and contacts prior to charging. White deposit that may be present on battery terminals or contacts is not abnormal and may be removed with cloth dampened with warm water.
  - (2) Connect 28-volt dc power source and milliammeter in series between positive terminal D and negative terminal C.
  - (3) Normal milliammeter indication should be 700 ( $\pm 150$ ) milliamperes.
  - (4) Remove power source and meter. Connect power source and milliammeter between positive terminal G and negative terminal C.
  - (5) Charging current should be between 90 and 130 milliamperes.
  - (6) Charge battery continuously for 16 hours.
  - (7) Install 50 watt lamp, between terminals E and C. (Paragraph 2.)
  - (8) Connect ammeter in series between positive terminal E and negative terminal C. Ammeter should indicate zero. Connect voltmeter between terminals E and C.
  - (9) Remove power source. Lamps should illuminate and ammeter indication should indicate 1.8 ampere discharge current. After 16 minutes of discharge voltage measured across positive terminal E and negative terminal C should be not less than 28 volts, and ammeter should read not less than 1.7 amperes.
  - (10) Continue discharge until automatic cutoff occurs at 24 ( $\pm 1$ ) volt.

EFFECTIVITY  
WJE ALL

**33-53-00**

TP-80MM-WJE

## MD-80 AIRCRAFT MAINTENANCE MANUAL

- (11) Remove potentiometer and milliammeter.
  - (12) Charge battery as outlined in Paragraph 4.D.(4) and Paragraph 4.D.(6). Voltage should read 32.5 (±1.5) volts at end of charge.
- E. Test Overwing Emergency Evacuation Battery Operation
- (1) Make certain emergency floodlight battery packs in aft cargo compartment are installed and properly connected.
  - (2) Make sure that these circuit breakers are closed:

**OVERHEAD EMERGENCY DC BUS**

**Row   Col   Number   Name**

**WJE 401-409, 411, 412, 414-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893**

A      14      B1-41      EMERGENCY LIGHTS ARM AND CHARGE

**WJE 410**

A      15      B1-41      EMERGENCY LIGHTS ARM AND CHARGE

**WJE ALL**

- (3) Place EMERGENCY LIGHTS switch located on overhead switch panel in ARM position. Place ATTENDANTS EMERGENCY LIGHTS switch located on attendant's panel in ARM position momentarily and release to ON position. Check that both left and right overwing emergency evacuation floodlights come on.

**WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893**

**CAUTION:** DO NOT LEAVE EMERGENCY LIGHTS SWITCH, ON OVERHEAD SWITCH PANEL, IN ARM OR ON POSITION WHEN RESTORING ATTENDANT PANEL EMERGENCY LIGHT SWITCH TO OFF POSITION. BATTERIES WILL CONTINUE TO DISCHARGE IF PROPER SEQUENCE IS NOT FOLLOWED.

- (4) Place ATTENDANTS EMERGENCY LIGHTS switch in OFF position. Both left and right overwing emergency evacuation flood-lights should go off. Safety switch in off position with lockwire.

**WJE ALL**

**CAUTION:** EMERGENCY LIGHTS SWITCHES MUST BE IN OFF POSITION BEFORE REMOVING AIRCRAFT POWER TO PREVENT BATTERY PACKS FROM ENERGIZING EMERGENCY LIGHTS BY INTERNAL POWER.

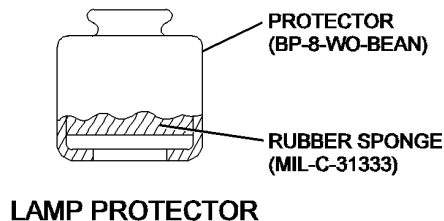
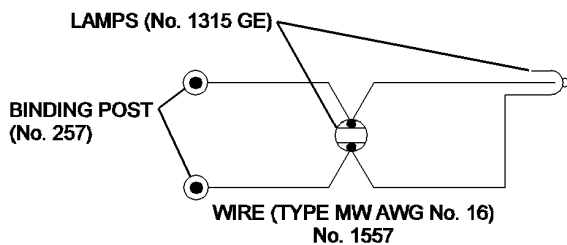
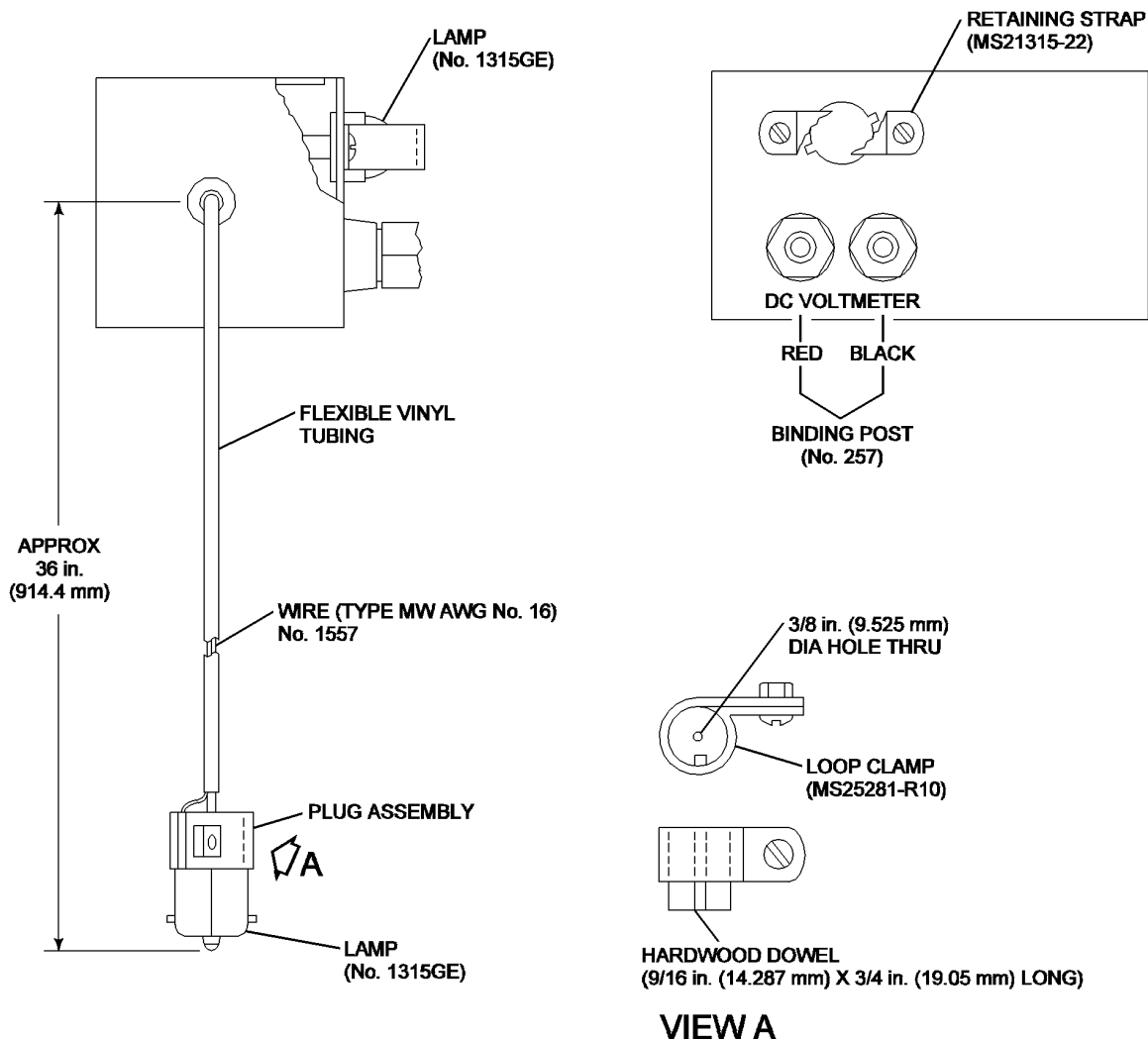
- (5) De-energize buses.

EFFECTIVITY	
WJE ALL	

33-53-00

TP-80MM-WJE

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



BBB2-33-80B  
S0006543041V2

**Emergency Lights Adaptor Assembly - Fabrication  
Figure 501/33-53-00-990-813**

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

**33-53-00**

Page 507  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### 5. Emergency Lights Luminosity Test

#### A. Cabin Interior Emergency Lights Luminosity Test

#### WJE 401-404, 412, 414, 873-879, 892, 893

NOTE: For the luminosity test to be effective, the emergency floor lighting system is not to be included. Light sources lower than four feet (1.219 m) above the floor are to be concealed by a light blocking material or deactivated so as not to interfere with luminosity readings.

- (1) Conceal or deactivate floor proximity emergency escape path lighting system by performing one of following:
  - (a) Cover all floor lights, exit identifiers, and passageway lights by using light blocking material; or
  - (b) Deactivate all floor lights, exit identifiers, and passageway lights by removing cabin emergency lights battery packs associated with the floor proximity emergency escape path lighting system. (EMERGENCY LIGHTS - REMOVAL/INSTALLATION, PAGEBLOCK 33-53-00/401)

#### WJE ALL

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

#### **OVERHEAD EMERGENCY DC BUS**

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

**WJE 401-409, 411, 412, 414-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893**

A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE
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**WJE 410**

A	15	B1-41	EMERGENCY LIGHTS ARM AND CHARGE
---	----	-------	---------------------------------

#### WJE ALL

- (3) Place EMERGENCY LIGHTS switch on overhead panel to ON position. Check that all cabin emergency lights are operating with equal intensity.
- (4) Place EMERGENCY LIGHTS switch in OFF position. Clean lenses and reflectors of cabin emergency lights if necessary.
- (5) Apply masking tape to floor at fuselage stations. (Paragraph 5.C.(10))
- (6) Close all window curtains in cabin.
- (7) Close entrance door, service doors, and cockpit door. Tape cockpit door sight glass with masking tape.
- (8) Check ambient lighting throughout length of cabin. Photometer/radiometer readings should not register on lower settings.

#### WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893

NOTE: Conduct the following portion of this test using emergency lights switch located on overhead switch panel. Maintain flight attendant's emergency lights switch in OFF guarded and safetied position.

#### WJE ALL

- (9) Place EMERGENCY LIGHTS switch in ON position.
- (10) Start the stop watch to record total time spent on test.

EFFECTIVITY
WJE ALL

# 33-53-00

TP-80MM-WJE

## MD-80 AIRCRAFT MAINTENANCE MANUAL

- (11) Remove cover from luminance probe and record illuminance at nine positions selected in step 4. Record readings on Paragraph 5.C.(10).

NOTE: Readings should be taken from equivalent height of passenger seat armrest.

- (12) Tail cone exit passage way reading must be minimum of 0.074 foot-candles.

NOTE: The average of the nine recorded illuminance readings must be a minimum of 0.074 foot-candles.

- (13) Place EMERGENCY LIGHTS switch in OFF position.

- (14) Stop the stop watch but do not reset.

### B. Tail Cone Evacuation Lights Luminosity Test

- (1) Clean lenses and reflectors if necessary.

- (2) Place EMERGENCY LIGHTS switch in ON position.

- (3) Start the stop watch.

- (4) Attach light intensity test adapter to lights and take readings with luminance probe attached to end of adapter. Record all three readings on Paragraph 5.C.(10).

NOTE: The average of the three recorded illuminance readings must be a minimum of 0.076 foot-candles.

- (5) Place EMERGENCY LIGHTS switch in OFF position.

- (6) Stop the stop watch but do not reset.

### C. Overwing Evacuation Lights Luminosity Test

- (1) Clean lenses of overwing evacuation lights if necessary.

- (2) Place EMERGENCY LIGHTS switch to ON position and check that both left and right overwing evacuation lights are operating.

- (3) Start the stop watch.

- (4) Attach light intensity test adapter to lights and take readings with luminance adapter attached to end of adapter. Record both readings on Paragraph 5.C.(10).

NOTE: The recorded overwing evacuation lights illuminance readings must be a minimum of 1.78 foot-candles for each side.

- (5) Place EMERGENCY LIGHTS switch to OFF position.

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

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

#### OVERHEAD EMERGENCY DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 401-409, 411, 412, 414-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893</b>			
A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE
<b>WJE 410</b>			
A	15	B1-41	EMERGENCY LIGHTS ARM AND CHARGE

EFFECTIVITY  
WJE ALL

# 33-53-00

TP-80MM-WJE

Page 509  
Feb 01/2016



## MD-80 AIRCRAFT MAINTENANCE MANUAL

**WJE ALL**

- (7) Stop the stop watch and record total time as recorded on watch on Figure 502.
- (8) Change all emergency lights battery packs or place all battery packs on charge as required.

NOTE: For each minute emergency lights are on, battery packs must be on charge approximately 1 hour and 30 minutes for recharge.

**WJE 401-404, 412, 414, 873-879, 892, 893**

- (9) Remove light blocking material from all floor lights, exit identifiers, and passageway lights or reactivate all floor lights, exit identifiers and passageway lights by installing battery packs associated with floor proximity emergency escape path lighting system. (EMERGENCY LIGHTS - REMOVAL/INSTALLATION, PAGEBLOCK 33-53-00/401)

**WJE ALL**

- (10) Illumination Record.

**WJE 401-412, 414-427, 429, 861-866, 868, 869, 871-881, 883, 884, 891-893**

**Table 503**

AIRPLANE REGISTRATION NO.		TOTAL TIME	DATE
BATTERY IDENTIFICATION	LOCATION (STATION NUMBER)	ILLUMINATION (FOOT-CANDLES)	MINIMUM ALLOWABLE
B5-23	213 First Light forward drop ceiling		
B5-100	358 * 2		
B5-101	471 * 4		
B5-101	585 * 6		
B5-102	698 * 8		
B5-104	812 * 10		
B5-104	925 * 12		
B5-106	1039 * 14		
B5-107	1152 * 16		
B5-27	1265 * 18		
Cabin Average (Total 10 locations)			0.074 foot candles
B5-28	Tail Cone Exit Passage-way (Center Light)		0.074 foot candles
* Ceiling joint No. from header.			
Illumination Record			

EFFECTIVITY  
WJE ALL

33-53-00

TP-80MM-WJE

## MD-80 AIRCRAFT MAINTENANCE MANUAL

WJE 886, 887

Table 504

AIRPLANE REGISTRATION NO.		TOTAL TIME	DATE
BATTERY IDENTIFICATION	LOCATION (STATION NUMBER)	ILLUMINATION (FOOT-CANDLES)	MINIMUM ALLOWABLE
B5-23	211 First Light forward drop ceiling		
B5-100	389 * 2		
B5-102	579 * 4		
B5-104	693 * 6		
B5-103	772 * 8		
B5-105	813 * 10		
B5-107	889 * 12		
B5-27	1113 * 14		
Cabin Average (Total 8 locations)			0.074 foot candles
B5-28	Tail Cone Exit Passage-way (Center Light)		0.074 foot candles
* Ceiling joint No. from header.			
Illumination Record			

WJE ALL

Table 505

BATTERY IDENTIFICATION	LOCATION (STATION NUMBER)	ILLUMINATION (FOOT-CANDLES)	MINIMUM ALLOWABLE
	<b>Tail Cone Slide</b>		
B5-27	Lower		0.076 foot candles
B5-28	Mid		0.076 foot candles
B5-28	Upper		0.076 foot candles
B5-49	Overwing Lights		
	Left		1.78 foot candles
	Right		1.78 foot candles
Meter Reader		Recorder	
Illumination Record			

6. Adjustment/Test - Floor Lighting FWD/AFT Diode

A. Test Floor Lighting FWD/AFT Diode

- (1) Place EMER LTS switch, located on Overhead Panel, in ON position.
- (2) Check that all floor lighting comes on.
- (3) Place EMER LTS switch in OFF position.

EFFECTIVITY WJE ALL
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33-53-00

TP-80MM-WJE

## MD-80 AIRCRAFT MAINTENANCE MANUAL

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

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

**LOWER EPC, DC TRANSFER BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	37	B1-387	EMERGENCY LIGHTS CHARGING

- (5) Open ceiling panel in forward cabin at Station 338R.  
 (6) Disconnect cannon plug from battery pack.  
 (7) Remove the safety tag and close this circuit breaker:

**LOWER EPC, DC TRANSFER BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	37	B1-387	EMERGENCY LIGHTS CHARGING

- (8) Place EMER LTS switch, located on Overhead Panel in ON position.  
 (9) Check that 3/4 of emergency floor lights come on.  
 (10) Place EMER LTS switch in OFF position.

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

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

**LOWER EPC, DC TRANSFER BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	37	B1-387	EMERGENCY LIGHTS CHARGING

- (12) Connect cannon plug to battery pack at Station 338. Close ceiling panel.  
 (13) Open aft cabin ceiling panel at station 1290R.  
 (14) Disconnect cannon plug from battery pack.  
 (15) Remove the safety tag and close this circuit breaker:

**LOWER EPC, DC TRANSFER BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	37	B1-387	EMERGENCY LIGHTS CHARGING

- (16) Place EMER LTS switch in ON position.  
 (17) Check that 3/4 of the emergency floor lights come on.  
 (18) Place EMER LTS switch in OFF position.

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

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

**LOWER EPC, DC TRANSFER BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	37	B1-387	EMERGENCY LIGHTS CHARGING

- (20) Connect cannon plug to battery pack in aft cabin. Close ceiling panel.

EFFECTIVITY	
WJE ALL	

33-53-00

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**

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

**LOWER EPC, DC TRANSFER BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	37	B1-387	EMERGENCY LIGHTS CHARGING

(22) Place EMER LTS switch in ON position. Check that all floor lights operate normally.

(23) Place EMER LTS switch in OFF position.

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

**33-53-00**

Page 513  
Feb 01/2015

**MD-80**  
**AIRCRAFT MAINTENANCE MANUAL**  
**EMERGENCY LIGHTS - ADJUSTMENT/TEST**

**1. General**

A. This procedure contains MSG-3 task card data.

**TASK 33-53-00-710-801**

**2. Operational Check of the Emergency Lighting System Operated From the Flight Deck and Flight Attendant Position**

NOTE: This procedure is a scheduled maintenance task.

**A. References**

<b>Reference</b>	<b>Title</b>
24-00-00 P/B 001	GENERAL - DESCRIPTION AND OPERATION
24-40-00 P/B 001	EXTERNAL POWER - DESCRIPTION AND OPERATION

**B. Prepare for the Operational Check of the Emergency Lighting System Operated From the Flight Deck and Flight Attendant Position**

**SUBTASK 33-53-00-861-001**

(1) Energize the aircraft electrical power system. (GENERAL - DESCRIPTION AND OPERATION, PAGEBLOCK 24-00-00/001)

NOTE: To facilitate the operational check of the emergency lights, all other lights in the airplane should be turned off.

NOTE: Turn the emergency lights off as soon as possible to prevent excessive discharge of the emergency batteries.

(2) It is recommended to perform this check with a team of three technicians, distributed as follows:

- (a) Cockpit and forward cabin.
- (b) Mid and aft cabin.
- (c) Outside of airplane.

**C. Operational Check of the Emergency Lighting System Operated From the Flight Deck and Flight Attendant Position**

**SUBTASK 33-53-00-710-001**

(1) Do an operational check of the emergency lighting system operated from the flight deck and flight attendant position.

NOTE: The ATTENDANTS EMERGENCY LIGHTS switch, located on the attendant's panel, must be in the OFF position while performing the following steps (2) through (9).

**CAUTION**: EMERGENCY LIGHTS MUST NOT REMAIN ON LONGER THAN MINIMUM PERIOD ACTUALLY REQUIRED. NEVER EXCEED A 1-MINUTE PERIOD PER TEST. FOR EACH MINUTE ON, BATTERIES MUST BE ON CHARGE FROM DC TRANSFER BUS FOR APPROXIMATELY 1 HOUR AND 30 MINUTES TO RECOVER.

(2) Place EMERGENCY LIGHTS switch, on overhead switch panel, in ON position. EMERGENCY LIGHTS NOT ARMED caution light on annunciator panel and emergency lights should come on.

- (a) Verify the emergency lights that follow are illuminated:
  - 1) Flight compartment emergency flood lights.
  - 2) Cabin floor and emergency evacuation lights.

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

**33-53-00**

Config 1  
Page 501  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

- 3) Tail emergency and evacuation slide lights.
- 4) Overwing, fwd and aft outside emergency door lights (both sides).
- (3) Place EMERGENCY LIGHTS switch in OFF position. Emergency lights should go off and annunciator light should remain on.
- (4) Place PULL TO DIM switch in DIM position. Annunciator light should dim.
- (5) Place PULL TO DIM in BRIGHT position. Annunciator light should brighten.
- (6) Place EMERGENCY LIGHTS switch in ARMED position. Annunciator light should go off and neon lamp in portable emergency light should come on.

NOTE: Neon lamp is located behind lens and adjacent to main lamp. It may be necessary to cup hands around lens to observe light.

Open these circuit breakers and install safety tags:

### OVERHEAD EMERGENCY DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 401-409, 411, 412, 414-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893</b>			
A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE
<b>WJE 410</b>			
A	15	B1-41	EMERGENCY LIGHTS ARM AND CHARGE

### WJE ALL

- (7) Emergency lights should come on.
- Remove the safety tags and close these circuit breakers:

### OVERHEAD EMERGENCY DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
<b>WJE 401-409, 411, 412, 414-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893</b>			
A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE
<b>WJE 410</b>			
A	15	B1-41	EMERGENCY LIGHTS ARM AND CHARGE

### WJE ALL

- (8) Emergency lights should go off.
  - (9) Place EMERGENCY LIGHTS switch in OFF position. Emergency lights should remain off.
- NOTE: The EMERGENCY LIGHTS switch, located on the overhead switch panel, must be in the OFF position while performing the following steps (10) through (12).
- (10) Place ATTENDANTS EMERGENCY LIGHTS switch, located on attendant's panel, in ON position. Emergency lights should not come on.

**CAUTION:** EMERGENCY LIGHTS MUST NOT STAY ON MORE THAN THE MINIMUM PERIOD NECESSARY TO DO THE TEST. DO NOT KEEP THE LIGHTS ON FOR MORE THAN ONE MINUTE. FOR EACH MINUTE THE LIGHTS ARE ON, YOU MUST CHARGE THE EMERGENCY BATTERIES FOR 1 HOUR AND 30 MINUTES FROM THE AIRCRAFT'S POWER SUPPLY.

- (11) Place ATTENDANTS EMERGENCY LIGHTS switch in ARM position momentarily and release to ON position. Emergency lights should come on.

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

**33-53-00**

Config 1  
Page 502  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

**CAUTION:** DO NOT LEAVE EMERGENCY LIGHTS SWITCH, ON OVERHEAD SWITCH PANEL, IN ARM OR ON POSITION WHEN RESTORING ATTENDANT PANEL EMERGENCY LIGHT SWITCH TO OFF POSITION. BATTERIES WILL CONTINUE TO DISCHARGE IF PROPER SEQUENCE IS NOT FOLLOWED.

- (12) Place ATTENDANTS EMERGENCY LIGHTS switch in OFF position. Emergency lights should go off.

### D. Job Close-up

SUBTASK 33-53-00-430-001

**CAUTION:** EMERGENCY LIGHTS SWITCHES MUST BE IN OFF POSITION BEFORE REMOVING AIRCRAFT POWER TO PREVENT BATTERY PACKS FROM ENERGIZING EMERGENCY LIGHTS BY INTERNAL POWER.

**CAUTION:** BEFORE OPENING CIRCUIT BREAKERS, MAKE CERTAIN EMERGENCY LIGHT SWITCHES ARE IN OFF POSITION.

- (1) Safety the attendant's emergency lights switch with break away lockwire.

SUBTASK 33-53-00-862-001

- (2) De-energize the aircraft electrical power system. (EXTERNAL POWER - DESCRIPTION AND OPERATION, PAGEBLOCK 24-40-00/001)

————— **END OF TASK** —————

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

**33-53-00**

Config 1  
Page 503  
Feb 01/2015

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### EMERGENCY LIGHTS - CHECK

**1. General**

- A. For ease of identity when performing an operational check on emergency lights, all other lights in airplane should be turned off. Turn emergency lights switches off as soon as practicable to prevent excessive discharge of emergency batteries.

**2. Check Emergency Lighting System**

- A. Emergency Lighting System - Operational Check

- (1) Energize buses.
- (2) Place the ATTENDANTS EMERGENCY LIGHTS switch, located on attendant's panel, in the OFF position.

**CAUTION:** EMERGENCY LIGHTS MUST NOT REMAIN ON LONGER THAN MINIMUM PERIOD ACTUALLY REQUIRED. NEVER EXCEED 1-MINUTE PERIOD PER TEST. FOR EACH MINUTE ON, BATTERIES MUST BE ON CHARGE FROM DC TRANSFER BUS FOR APPROXIMATELY 1 HOUR AND 30 MINUTES TO RECOVER.

- (3) Place EMERGENCY LIGHTS switch, on overhead switch panel, in ON position. EMERGENCY LIGHTS NOT ARMED caution light on annunciator panel and emergency lights should come on. (EMERGENCY LIGHTS - DESCRIPTION AND OPERATION, PAGEBLOCK 33-53-00/001, Figure 1 for approximate location of lights.)
- (4) Place EMERGENCY LIGHTS switch in OFF position. Emergency lights should go off and annunciator light should remain on.
- (5) Place PULL TO DIM switch in DIM position. Annunciator light should dim.
- (6) Place PULL TO DIM switch in BRIGHT position. Annunciator light should brighten.
- (7) Place EMERGENCY LIGHTS switch in ARMED position. Annunciator light should go off and neon lamp in portable emergency light should come on.

**NOTE:** Neon lamp is located behind lens and adjacent to main lamp. It may be necessary to cup hands around lens to observe light.

- (8) Open following circuit breaker;s emergency lights should come on:

**OVERHEAD EMERGENCY DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
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**WJE 401-409, 411, 412, 414-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893**

A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE
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**WJE 410**

A	15	B1-41	EMERGENCY LIGHTS ARM AND CHARGE
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**WJE ALL**

- (9) Close following circuit breakers; emergency lights should go off:

**OVERHEAD EMERGENCY DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
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**WJE 401-409, 411, 412, 414-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893**

A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE
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**WJE 410**

A	15	B1-41	EMERGENCY LIGHTS ARM AND CHARGE
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EFFECTIVITY
WJE ALL

33-53-00

TP-80MM-WJE

Page 601  
Feb 01/2016



## MD-80 AIRCRAFT MAINTENANCE MANUAL

### WJE ALL

- (10) Place EMERGENCY LIGHTS switch in OFF position. Emergency lights should remain off.

NOTE: The emergency lights may illuminate for 1 to 2 seconds during switch transition.

NOTE: The EMERGENCY LIGHTS switch, located on overhead switch panel, stays in OFF position while performing the steps that follow.

- (11) Place ATTENDANTS EMERGENCY LIGHTS switch, located on attendant's panel, in ON position. Emergency lights should not come on.

CAUTION: EMERGENCY LIGHTS MUST NOT REMAIN ON LONGER THAN MINIMUM PERIOD ACTUALLY REQUIRED. NEVER EXCEED 1-MINUTE PERIOD PER TEST. FOR EACH MINUTE ON, BATTERIES MUST BE ON CHARGE FROM DC TRANSFER BUS FOR APPROXIMATELY 1 HOUR AND 30 MINUTES TO RECOVER.

- (12) Place ATTENDANTS EMERGENCY LIGHTS switch in ARM position momentarily and release switch to ON position. Emergency lights should come on.

CAUTION: DO NOT LEAVE EMERGENCY LIGHTS SWITCH, ON OVERHEAD SWITCH PANEL, IN ARM OR ON POSITION WHEN RESTORING ATTENDANT PANEL EMERGENCY LIGHT SWITCH TO OFF POSITION. BATTERIES WILL CONTINUE TO DISCHARGE IF PROPER SEQUENCE IS NOT FOLLOWED.

- (13) Check that EMERGENCY LIGHT switch on overhead switch panel is in OFF position.

### WJE 401-411, 415-427, 429, 861-866, 868, 869, 871-881, 883, 884, 886, 887, 891-893

- (14) Place ATTENDANTS EMERGENCY LIGHTS switch in OFF position; emergency lights should go off. Safety switch with lock-wire.

### WJE ALL

CAUTION: EMERGENCY LIGHTS SWITCHES MUST BE IN OFF POSITION BEFORE REMOVING AIRPLANE POWER TO PREVENT BATTERY PACKS FROM ENERGIZING EMERGENCY LIGHTS BY INTERNAL POWER.

- (15) Deenergize buses.

EFFECTIVITY  
WJE ALL

TP-80MM-WJE

**33-53-00**

Page 602  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### EMERGENCY AISLE FLOOR LIGHTS AND EXIT IDENTIFIERS- DESCRIPTION AND OPERATION

#### 1. General

- A. The emergency aisle floor lights and exit identifiers provide an emergency escape path lighting system for evacuation guidance to passengers, when all sources of illumination above four feet (1.219 m) are obscured. The aisle lights and identifiers operate with the passenger compartment emergency lighting system, and are powered by rechargeable low voltage type (2.5 volts DC), battery packs. Each battery pack is transistorized, and contains an etched circuit and rechargeable nickel-cadmium batteries. The batteries must be checked periodically and replaced as necessary.
- B. Emergency aisle lights consist of incandescent lights, spaced and mounted on a continuous floor-mounted track adjacent to the aisle running forward and aft the full length of the passenger cabin. The floor-mounted track is composed of two parts with the upper half snapping into the lower half. The lower half of the track contains the lamps and fixtures. The upper half contains the track and lens covers. The solid red lens covers indicate an exit. Additional emergency passageway floor lights are installed on the walkway in the aft accessory compartment to provide an escape path through the tailcone exit.
- C. Emergency exit identifiers consist of incandescent lamps inside the exit signs installed on the sidewall, closely above the floor. The identifiers are adjacent to all passenger exit locations to identify each exit, from the emergency escape path. Identifiers are illuminated by lamps of the same type used in the floor track. The lens is designed to illuminate the threshold and surrounding area.
- D. The emergency escape path lighting system is integrated with the passenger compartment emergency lighting system. When the aircraft emergency lighting system is activated, both systems come on simultaneously. Refer to EMERGENCY LIGHTS - DESCRIPTION AND OPERATION, PAGEBLOCK 33-53-00/001 for operating conditions of the emergency lights circuit.

#### 2. Care and Maintenance of Emergency Light System Batteries

- A. Optimum performance from the size "D" nickel cadmium (Ni-Cd) cells, in the cabin emergency lighting system, is dependent upon strict adherence to the following practices and methods:
  - (1) New batteries must always be installed in sets and should be at the same initial state-of-charge. It is also desirable that these be of the same approximate age to avoid likelihood of an early loss of capacity and voltage by some of the cells.
  - (2) It is mandatory that cells used in a given battery pack be from the same manufacturer. It is also important that all cells, which are either being charged or discharged in a single string, be from the same manufacturer. Differences in the manufacturer's cell internal designs, operating impedance and performance characteristics do not permit equal charging, equal state of charge, or equal cell volt-ages if they are mixed in battery shop chargers or in the battery pack.
  - (3) When operated in the momentary TEST/ON position, operating time should be minimized in order to conserve battery state-of-charge. 1 1/2 hours (90 minutes) of charging time with emergency lights switch in "ARMED" condition or 1 hour (60 minutes) in "OFF" condition should be allowed for each minute of battery operating time while supplying power to emergency lamps. Batteries must be recharged in this manner or as specified in applicable sections of this manual prior to returning the aircraft to service.
  - (4) Ni-Cd batteries are inherently subject to a partial, time-dependent reduction of available capacity. A major contributor to reduction is the memory effect, which is due to repetitive identical cycles of operation which include partial-capacity discharges. Significant reductions of both terminal voltage and available capacity have been identified due to this phenomenon.
  - (5) The memory effect can be the cause of a failed pre-flight test or an observed premature reduction of illumination. This effect can be removed by complete discharge of each cell and recharging per following reconditioning instructions.

## MD-80 AIRCRAFT MAINTENANCE MANUAL

**CAUTION:** DO NOT ATTEMPT TO DISCHARGE TWO OR MORE CELLS IN SERIES.  
PERMANENT DAMAGE CAN BE CAUSED BY POLARITY REVERSAL.

- (a) Complete discharge of cell:

NOTE: Individually discharge each cell through a circuit load of 0.2 ohms until cell voltage reads less than 0.2 volts while under load.

- (b) Recharge for capacity test or service:

Cells may be charged individually or in series. Charge at room temperature at 400 milliamperes maximum for 16 hours or at manufacturers recommended rate/time.

NOTE: Charge current should not exceed 400 milliamperes at any time. Charge voltage shall be 1.40 to 1.48 per cell while under charge.

### 3. Care and Maintenance of Emergency Aisle Floor Lights and Exit Identifiers.

- A. Items contributing to reduction of illumination from the emergency aisle floor lights are dust and debris. Items contributing to reduction of illumination from the exit identifiers are dust and accumulation of tar and nicotine from cigarette smoke.

- (1) Lenses of the aisle lights and exit identifiers should be washed regularly with a mild detergent to maintain lighting efficiency of the fixture.

EFFECTIVITY  
WJE 401-404, 412, 414, 873-879, 892, 893

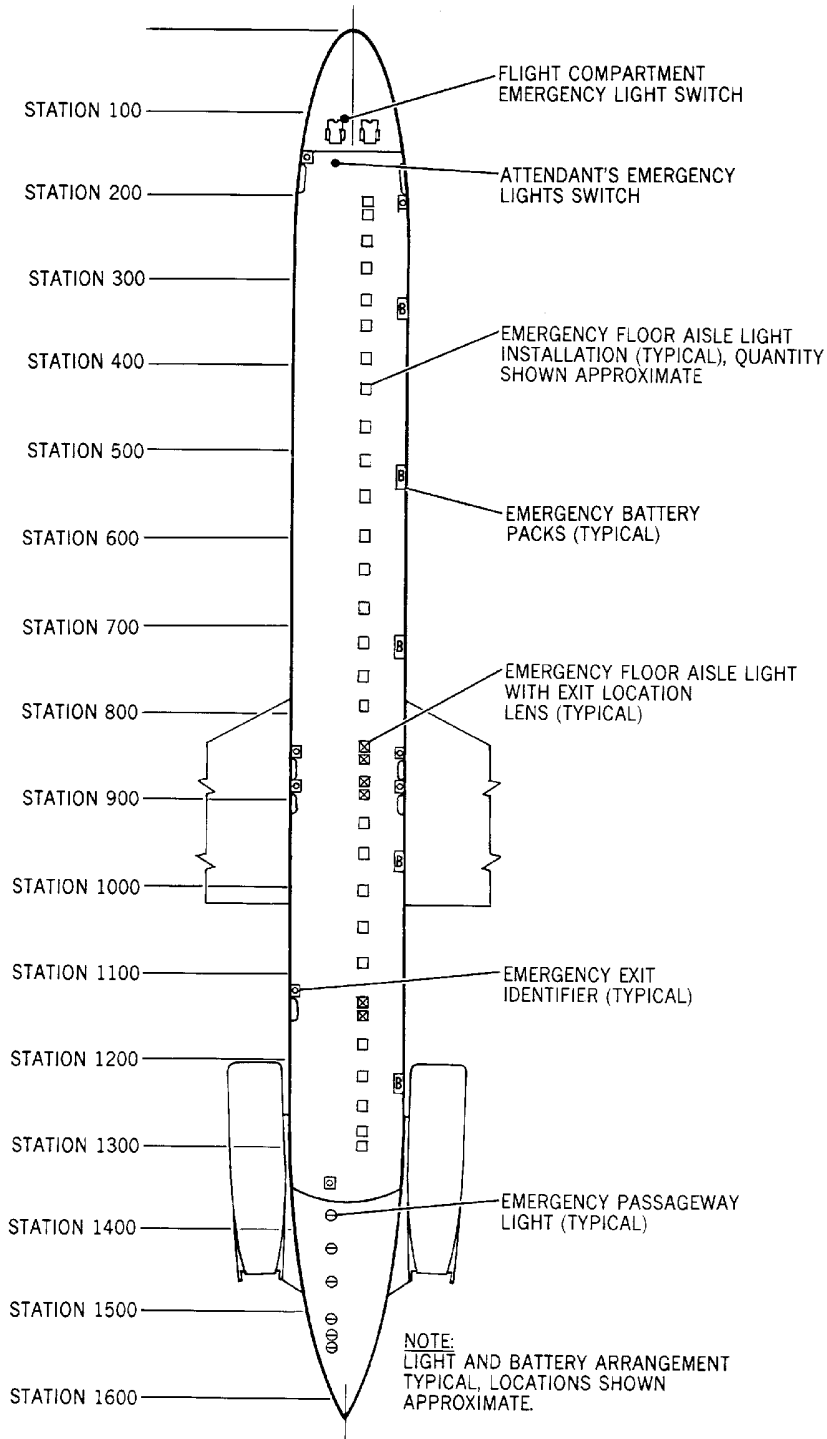
TP-80MM-WJE

**33-53-01**

Config 1  
Page 2

Feb 01/2016

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**



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**Emergency Aisle Floor Lights, Passageway Lights, Exit Identifiers, and Battery Packs Locations  
Figure 1/33-53-01-990-801**

EFFECTIVITY  
WJE 401-404, 412, 414, 873-879, 892, 893

TP-80MM-WJE

**33-53-01**

Config 1  
Page 3  
Feb 01/2016

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### EMERGENCY AISLE FLOOR LIGHTS AND EXIT IDENTIFIERS - REMOVAL/INSTALLATION

#### 1. General

- A. This maintenance practice provides removal/installation procedures for the emergency aisle floor lights installed throughout the cabin floor aisle, the exit identifiers installed on the cabin sidewall adjacent to all passenger exits, the passageway lights installed on the ventral stairway shroud and aft accessory area, and the emergency lights battery packs located in the cabin.

**CAUTION:** DO NOT LEAVE EMERGENCY LIGHTS SWITCH, ON OVERHEAD SWITCH PANEL, IN ARM OR ON POSITION WHEN RESTORING ATTENDANT PANEL EMERGENCY LIGHT SWITCH TO OFF POSITION. BATTERIES WILL CONTINUE TO DISCHARGE IF PROPER SEQUENCE IS NOT FOLLOWED.

- B. The emergency lights switch on the overhead switch panel and the emergency lights switch on forward attendant's panel, should be placed in the off position before opening the emergency lights arm and charge circuit breaker to prevent inadvertent operation of the emergency battery packs. For each minute of operation, the batteries must charge approximately 1 hour and 30 minutes to recover.

**CAUTION:** AVOID CONTACT BETWEEN TERMINAL SCREW AND POSITIVE CONTACT OF BATTERY HOLDER. DAMAGE TO CHARGING CIRCUITRY MIGHT RESULT.

- C. Replace cabin emergency lights batteries as necessary. They are located inside of battery packs, two "D" size cells in series per pack. Removal of battery pack is not necessary for battery replacement. Access to battery packs is through access doors located inside overhead stowage compartments.

#### 2. Removal/Installation Emergency Aisle Floor Lights and Exit Identifiers

- A. Remove Emergency Aisle Floor Light

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

**CAUTION:** BEFORE OPENING CIRCUIT BREAKERS, MAKE CERTAIN EMERGENCY LIGHT SWITCHES ARE IN OFF POSITION.

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

##### **LOWER EPC, DC TRANSFER BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	37	B1-387	EMERGENCY LIGHTS CHARGING

##### **OVERHEAD EMERGENCY DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE

- (2) Remove emergency aisle track cover adjacent to aisle light.  
 (3) Carefully slide and remove lens cover from track fixture.

**NOTE:** Track and lens cover removal is aided by applying a combination of downward pressure on one edge of track and lens cover while applying upward pressure on the opposite edge.

- (4) Remove integral lamp module from lens cover and remove lamp from module.  
 (5) Disconnect lamp module from wire harness receptacle.

- B. Install Emergency Aisle Floor Light

EFFECTIVITY  
 WJE 401-404, 412, 414, 873-879, 892, 893

# 33-53-01

## MD-80 AIRCRAFT MAINTENANCE MANUAL

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Make sure that these circuit breakers are open and have safety tags:

### LOWER EPC, DC TRANSFER BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	37	B1-387	EMERGENCY LIGHTS CHARGING

### OVERHEAD EMERGENCY DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE

- (2) Connect lamp module to wire harness receptacle.
- (3) Install new lamp inside module and place integral module inside lens cover.
- (4) Position lens cover over floor track fixture.

**CAUTION:** AVOID PINCHING OF WIRES DURING MODULE INSTALLATIONS.

- (5) Apply even pressure on edges of lens cover until cover seats over floor track fixture. Slide lens cover into position.
- (6) Position track cover over floor track fixture and apply even pressure on edges until cover seats fully over its entire length.
- (7) Remove the safety tags and close these circuit breakers:

### LOWER EPC, DC TRANSFER BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	37	B1-387	EMERGENCY LIGHTS CHARGING

### OVERHEAD EMERGENCY DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE

- (8) Check operation of lights. (PAGEBLOCK 33-53-00/601)

#### C. Remove Emergency Exit Identifier

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

**CAUTION:** BEFORE OPENING CIRCUIT BREAKERS, MAKE CERTAIN EMERGENCY LIGHT SWITCHES ARE IN OFF POSITION.

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

### LOWER EPC, DC TRANSFER BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	37	B1-387	EMERGENCY LIGHTS CHARGING

### OVERHEAD EMERGENCY DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE

## MD-80 AIRCRAFT MAINTENANCE MANUAL

- (2) Remove emergency exit identifier lens cover by releasing upper and lower catch latches from lamp fixture.
- (3) Remove lamp.
- (4) Remove attaching screws from lamp fixture.
- (5) Remove fixture from sidewall to gain access to electrical wires.
- (6) Tag and disconnect electrical wires.

### D. Install Emergency Exit Identifier

- (1) Make sure that these circuit breakers are open and have safety tags:

#### LOWER EPC, DC TRANSFER BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	37	B1-387	EMERGENCY LIGHTS CHARGING

#### OVERHEAD EMERGENCY DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE

- (2) Remove tags and connect electrical wires.
- (3) Position identifier lamp fixture to sidewall and install attaching screws.
- (4) Install new lamp.
- (5) Install lens cover by pressing upper and lower areas of cover to engage catch latches.
- (6) Remove the safety tags and close these circuit breakers:

#### LOWER EPC, DC TRANSFER BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	37	B1-387	EMERGENCY LIGHTS CHARGING

#### OVERHEAD EMERGENCY DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE

- (7) Check operation of lights. (PAGEBLOCK 33-53-00/601)

### 3. Removal/Installation Emergency Passenger Light

#### A. Remove Light

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

**CAUTION:** BEFORE OPENING CIRCUIT BREAKERS, MAKE CERTAIN EMERGENCY LIGHT SWITCHES ARE IN OFF POSITION.

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

#### LOWER EPC, DC TRANSFER BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	37	B1-387	EMERGENCY LIGHTS CHARGING

## MD-80 AIRCRAFT MAINTENANCE MANUAL

### OVERHEAD EMERGENCY DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE

- (2) Remove passageway light lens cover by carefully lifting up edge of cover from light fixture.
- (3) Remove integral lamp module from lens cover and remove lamp from module.
- (4) Remove attaching screws from light fixture.
- (5) Remove fixture from housing to gain access to electrical wiring.
- (6) Tag and disconnect electrical wires.

#### B. Install Light

**WARNING:** TAG AND USE SAFETY CLIPS TO SAFETY THE CIRCUIT BREAKERS. IF THE CIRCUIT BREAKERS ARE NOT OPENED, TAGGED, AND SAFETIED, INJURY TO PERSONS AND DAMAGE TO EQUIPMENT CAN OCCUR.

- (1) Make sure that these circuit breakers are open and have safety tags:

### LOWER EPC, DC TRANSFER BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	37	B1-387	EMERGENCY LIGHTS CHARGING

### OVERHEAD EMERGENCY DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE

- (2) Remove tags and connect electrical wires.
- (3) Place passageway light fixture on housing and install attaching screws.
- (4) Install new lamp inside module and place integral module inside lens cover.
- (5) Position lens cover over fixture.
- (6) Apply even pressure on edges of cover until cover seats over fixture.
- (7) Remove the safety tags and close these circuit breakers:

### LOWER EPC, DC TRANSFER BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	37	B1-387	EMERGENCY LIGHTS CHARGING

### OVERHEAD EMERGENCY DC BUS

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE

- (8) Check operation of lights. (EMERGENCY LIGHTS - CHECK, PAGEBLOCK 33-53-00/601)

#### 4. Removal/Installation Battery Packs

- A. Remove Cabin Emergency Lights Battery Pack. (EMERGENCY LIGHTS - REMOVAL/ INSTALLATION, PAGEBLOCK 33-53-00/401)

EFFECTIVITY  
WJE 401-404, 412, 414, 873-879, 892, 893

# 33-53-01

TP-80MM-WJE

Page 404  
Feb 01/2016



# MD-80 AIRCRAFT MAINTENANCE MANUAL

## FLOOR TRACK EMERGENCY LIGHTING - ADJUSTMENT/TEST

### 1. General

A. This procedure contains MSG-3 task card data.

#### **TASK 33-53-01-710-801**

### 2. Operational Check of the Floor Track Emergency Lighting

NOTE: This procedure is a scheduled maintenance task.

#### A. **References**

<u>Reference</u>	<u>Title</u>
24-00-00 P/B 001	GENERAL - DESCRIPTION AND OPERATION
24-40-00 P/B 001	EXTERNAL POWER - DESCRIPTION AND OPERATION

#### B. **Prepare for the Operational Check of the Floor Track Emergency Lighting**

SUBTASK 33-53-01-861-001

- (1) Energize the aircraft electrical power system. (GENERAL - DESCRIPTION AND OPERATION, PAGEBLOCK 24-00-00/001)

#### C. **Operational Check of the Floor Track Emergency Lighting**

SUBTASK 33-53-01-710-001

- (1) Do an operational check of the floor track lighting.  
Remove the safety tags and close these circuit breakers:

##### **LOWER EPC, DC TRANSFER BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	37	B1-387	EMERGENCY LIGHTS CHARGING

##### **OVERHEAD EMERGENCY DC BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	14	B1-41	EMERGENCY LIGHTS ARM AND CHARGE

- (2) Place EMER LTS switch to ON position.
  - (a) Make sure all floor lighting works properly.
- (3) Place EMER LTS switch to OFF position.

Open this circuit breaker and install safety tag:

##### **LOWER EPC, DC TRANSFER BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	37	B1-387	EMERGENCY LIGHTS CHARGING

- (4) Gain access to battery pack in forward cabin overhead (B5-211) at Station 338.
  - (a) Disconnect battery pack (B5-211) cannon plug (P1-791).  
Remove the safety tag and close this circuit breaker:

##### **LOWER EPC, DC TRANSFER BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	37	B1-387	EMERGENCY LIGHTS CHARGING

- (5) Place EMER LTS switch ON position.
  - (a) Make sure 3/4 of the emergency floor lighting operates.

EFFECTIVITY  
WJE 401-404, 412, 414, 873-879, 892, 893

TP-80MM-WJE

## 33-53-01

Config 1  
Page 501  
Feb 01/2016

**MD-80  
AIRCRAFT MAINTENANCE MANUAL**

- (6) Place EMER LTS switch to OFF position.  
Open this circuit breaker and install safety tag:

**LOWER EPC, DC TRANSFER BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	37	B1-387	EMERGENCY LIGHTS CHARGING

- (7) Reconnect battery pack (B5-211) cannon plug (P1-791).  
(8) Gain access to battery pack in aft cabin overhead (B5-212) at Station 1290.  
(a) Disconnect battery pack (B5-212) cannon plug (P1-792).  
Remove the safety tag and close this circuit breaker:

**LOWER EPC, DC TRANSFER BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	37	B1-387	EMERGENCY LIGHTS CHARGING

- (9) Place EMER LTS switch to ON position.  
(a) Make sure 3/4 of the emergency floor lighting operates.  
(10) Place EMER LTS switch to OFF position.  
Open this circuit breaker and install safety tag:

**LOWER EPC, DC TRANSFER BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	37	B1-387	EMERGENCY LIGHTS CHARGING

- (11) Reconnect battery pack (B5-212) cannon plug (P1-792).  
Remove the safety tag and close this circuit breaker:

**LOWER EPC, DC TRANSFER BUS**

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
Z	37	B1-387	EMERGENCY LIGHTS CHARGING

- (12) Place EMER LTS switch to ON position.  
(a) Make sure all floor lighting operates normally.  
(13) Place EMER LTS switch to OFF position.

**D. Job Close-up**

SUBTASK 33-53-01-942-001

- (1) Remove all the tools and equipment from the work area. Make sure the area is clean.

SUBTASK 33-53-01-862-001

- (2) De-energize the aircraft electrical power system. (EXTERNAL POWER - DESCRIPTION AND OPERATION, PAGEBLOCK 24-40-00/001)

————— **END OF TASK** —————

EFFECTIVITY  
WJE 401-404, 412, 414, 873-879, 892, 893

TP-80MM-WJE

**33-53-01**

Config 1  
Page 502  
Feb 01/2016

# MD-80 AIRCRAFT MAINTENANCE MANUAL

## EXIT IDENTIFIERS - ADJUSTMENT/TEST

**1. General**

A. This procedure contains MSG-3 task card data.

**TASK 33-53-01-720-801**

**2. Functional Check of Self Illuminating Exit Signs**

**A. Self Illuminating Signs Functional Check**

**WARNING:** IF AN ITEM CONTAINING TRITIUM IS DAMAGED OR BROKEN, ALL PERSONNEL MUST LEAVE THE AIRCRAFT IMMEDIATELY.

SUBTASK 33-53-01-720-001

(1) Check self illuminating signs as follows:

ITEM NO.	ITEM DESCRIPTION	MANUFACTURER
1	Comparator DB-45-B1 DB-45-B2	Self Powered Lighting 31 Waterloo Ave. PO Box 657 Berwyn, PA 19312

(a) Check signs for cracks or breakage.

NOTE: If cracks or breakage of sign is observed during removal, proceed immediately to AMM 11-00 for removal instructions.

(b) With comparator held in front of sign, focus on center of individual letters.

NOTE: Betalight comparator internal luminous source must be calibrated at 100 microlamberts to provide accurate comparison.

(c) Compare brightness of sign with comparator internal luminous source. If luminescence of any letter is less than comparator luminous source, replace sign.

———— **END OF TASK** ————

EFFECTIVITY  
WJE 401-404, 412, 414, 873-879, 892, 893

TP-80MM-WJE

**33-53-01**

Config 2  
Page 501  
Feb 01/2016