



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

EMERGENCY LIGHT DC/AC INVERTER - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the Emergency Light DC/AC Inverter.
- B. There are six or eight inverters installed on the aircraft near the batteries to supply AC power to the electroluminescent exit signs and floor proximity lights, as follows:
 - (1) Emergency Light DC/AC Inverter 1 - Installed on the right side of the fuselage, between the TCAS computer and the cockpit wall.
 - (2) Emergency Light DC/AC Inverters 2, 3, and/or 7 - Installed on the ceiling, above the service door.
 - (3) Emergency Light DC/AC Inverters 4 and 5 - Installed on the ceiling, above the left emergency exit.
 - (4) Emergency Light DC/AC Inverter 6 and/or 8 - Installed on the ceiling, above the second and third windows, after the left emergency exit.
- C. The procedures in this section are given in the sequence below. The tasks identified with (♦) are part of the Scheduled Maintenance Requirements Document (SMRD).

TASK NUMBER	DESCRIPTION	EFFECTIVITY
33-50-11-000-801-A	EMERGENCY LIGHT DC/AC INVERTER - ALL REMOVAL	
33-50-11-400-801-A	EMERGENCY LIGHT DC/AC INVERTER - ALL INSTALLATION	



AIRCRAFT
MAINTENANCE MANUAL

TASK 33-50-11-000-801-A

EFFECTIVITY: ALL

2. EMERGENCY LIGHT DC/AC INVERTER - REMOVAL

A. General

- (1) This procedure gives the instructions to remove the Emergency Light DC/AC Inverter.

B. References

REFERENCE	DESIGNATION
AMM TASK 25-22-04-000-801-A/400	-
AMM TASK 25-22-04-000-802-A/400	-
AMM TASK 25-81-01-000-801-A/400	-
AMM TASK 25-81-01-000-802-A/400	-
SB145-25-0325	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
232		Aft wardrobe
234		Passenger cabin ceiling - RH
253		Passenger cabin ceiling - LH

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	In the passenger cabin

I. Preparation

SUBTASK 841-002-A

- (1) On the circuit breaker panel, open the LIGHTS EMERG circuit breaker and attach a DO-NOT-CLOSE tag to it.
- (2) For Emergency Light DC/AC Inverter 1:
 - (a) Remove the internal access panel from the wardrobe.

- (b) (PRE-MOD [SB145-25-0325](#)) Remove the insulation. Refer to (AMM TASK 25-81-01-000-801-A/400) or (AMM TASK 25-81-01-000-802-A/400), as applicable.
- (3) For Emergency Light DC/AC Inverters 2, 3, and 7:
 - (a) Remove the headliner panel. Refer to (AMM TASK 25-22-04-000-801-A/400) or (AMM TASK 25-22-04-000-802-A/400), as applicable.
 - (b) (PRE-MOD [SB145-25-0325](#)) Remove the insulation. Refer to (AMM TASK 25-81-01-000-801-A/400) or (AMM TASK 25-81-01-000-802-A/400), as applicable.
- (4) For Emergency Light DC/AC Inverters 4 and 5:
 - (a) Remove the headliner panel. Refer to (AMM TASK 25-22-04-000-801-A/400) or (AMM TASK 25-22-04-000-802-A/400), as applicable.
 - (b) (PRE-MOD [SB145-25-0325](#)) Remove the insulation. Refer to (AMM TASK 25-81-01-000-801-A/400) or (AMM TASK 25-81-01-000-802-A/400), as applicable.
- (5) For Emergency Light DC/AC Inverters 6 and 8:
 - (a) Remove the headliner panel. Refer to (AMM TASK 25-22-04-000-801-A/400) or (AMM TASK 25-22-04-000-802-A/400), as applicable.
 - (b) (PRE-MOD [SB145-25-0325](#)) Remove the insulation. Refer to (AMM TASK 25-81-01-000-801-A/400) or (AMM TASK 25-81-01-000-802-A/400), as applicable.

J. Removal ([Figure 401](#))

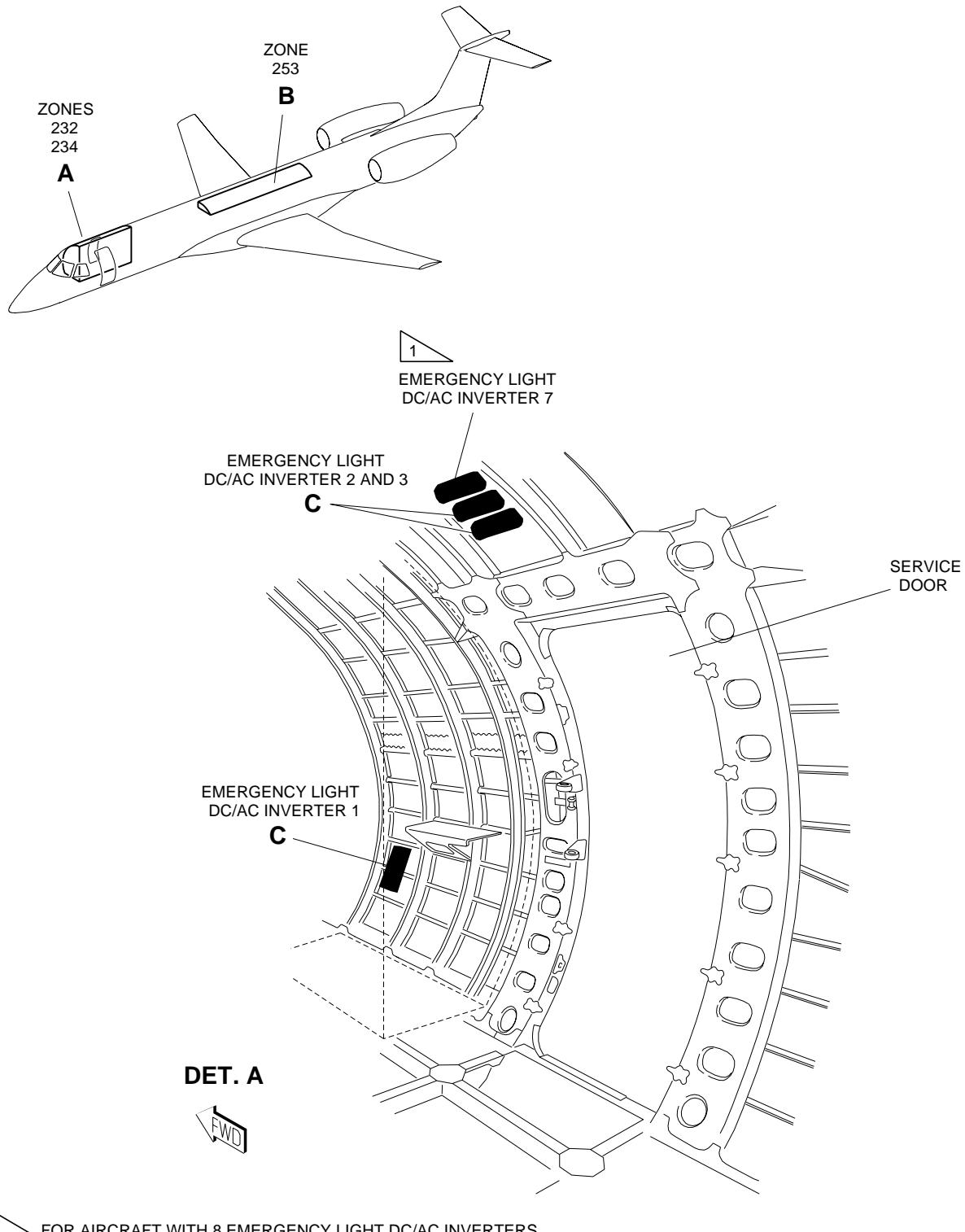
SUBTASK 020-002-A

- (1) Remove the electrical connector (2).
- (2) (PRE-MOD [SB145-25-0325](#)) Remove the two bolts (7) and washers (6).
- (3) (POST-MOD [SB145-25-0325](#)) Remove the two bolts (7), washers (6), and spacers (5).
- (4) Remove the Emergency Light DC/AC Inverter (1).

EFFECTIVITY: ALL

Emergency Light DC/AC Inverter - Removal/Installation

Figure 401 - Sheet 1

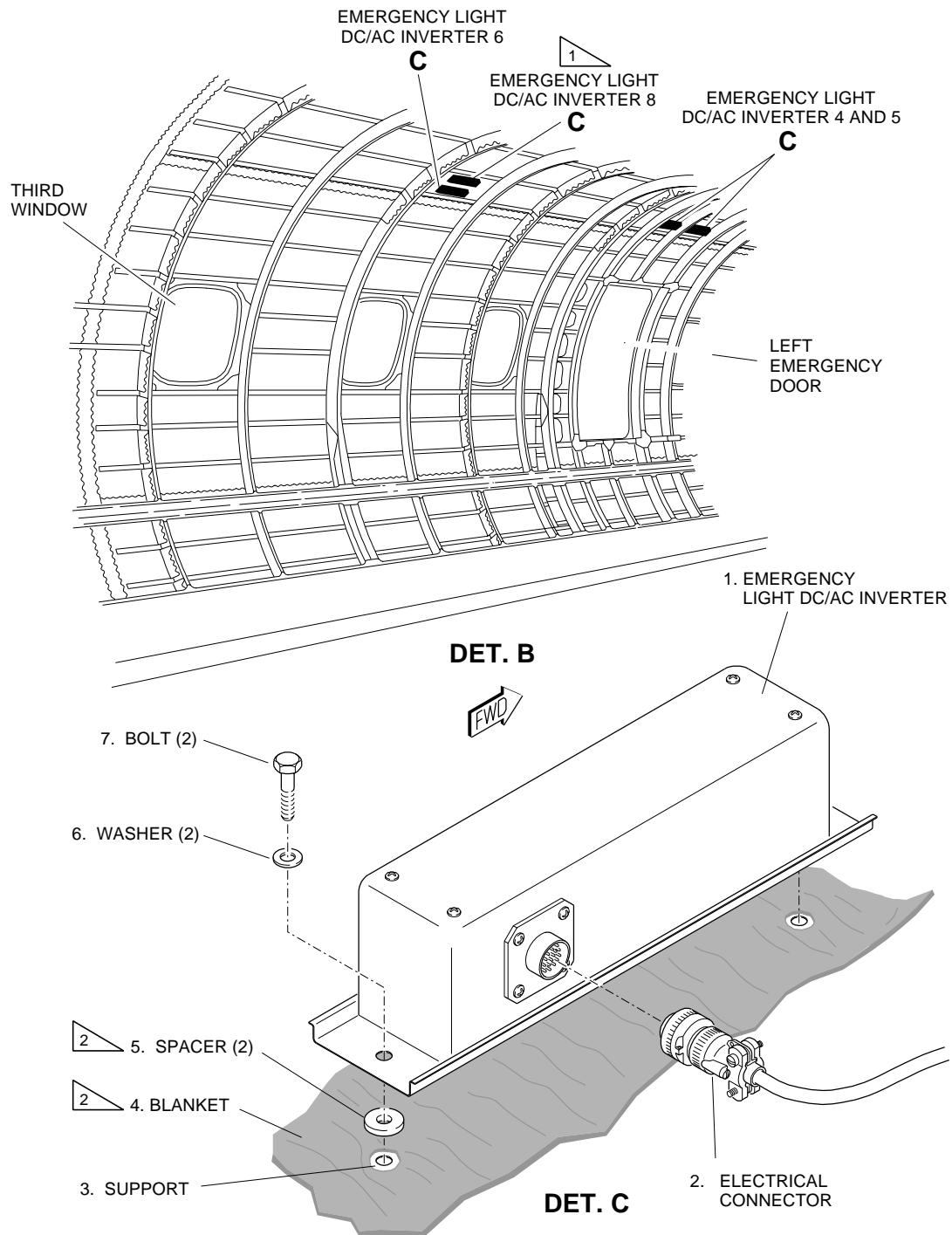


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EFFECTIVITY: ALL

Emergency Light DC/AC Inverter - Removal/Installation

Figure 401 - Sheet 2



1 FOR AIRCRAFT WITH 8 EMERGENCY LIGHT DC/AC INVERTERS.

2 POST-MOD SB 145-25-0325.

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EMB145 - EMB135

AIRCRAFT
MAINTENANCE MANUAL

TASK 33-50-11-400-801-A

EFFECTIVITY: ALL

3. EMERGENCY LIGHT DC/AC INVERTER - INSTALLATION

A. General

(1) This procedure gives the instructions to install the Emergency Light DC/AC Inverter.

B. References

REFERENCE	DESIGNATION
AMM TASK 25-22-04-400-801-A/400	-
AMM TASK 25-22-04-400-802-A/400	-
AMM TASK 25-81-01-400-801-A/400	-
AMM TASK 25-81-01-400-802-A/400	-
AMM TASK 33-50-00-700-801-A/500	EMERGENCY LIGHTS - OPERATIONAL CHECK
SB145-25-0325	-

C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
232		Aft wardrobe
234		Passenger cabin ceiling - RH
253		Passenger cabin ceiling - LH

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

Not Applicable

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	In the passenger cabin

I. Installation (Figure 401)

SUBTASK 420-002-A

(1) (PRE-MOD **SB145-25-0325**) Put the Emergency Light DC/AC Inverter (1) in its position.

- (2) (POST-MOD [SB145-25-0325](#)) Put the blanket (4), spacers (5), and the Emergency Light DC/AC Inverter (1) in their positions .
- (3) (PRE-MOD [SB145-25-0325](#)) Install the washers (6) and bolts (7) that attach the Emergency Light DC/AC Inverter (1) to the support (3).
- (4) (POST-MOD [SB145-25-0325](#)) Install the washers (6) and bolts (7) that attach the Emergency Light DC/AC Inverter (1) and spacers (5) to the support (3).
- (5) Install the electrical connector (2).

J. Follow-on

SUBTASK 842-002-A

- (1) For Emergency Light DC/AC Inverter 1:
 - (a) (PRE-MOD [SB145-25-0325](#)) Install the insulation. Refer to (AMM TASK 25-81-01-400-801-A/400) or (AMM TASK 25-81-01-400-802-A/400), as applicable.
 - (b) Install the internal access panel to the wardrobe.
- (2) For Emergency Light DC/AC Inverters 2, 3, and 7:
 - (a) (PRE-MOD [SB145-25-0325](#)) Install the insulation. Refer to (AMM TASK 25-81-01-400-801-A/400) or (AMM TASK 25-81-01-400-802-A/400), as applicable.
 - (b) Install the headliner panel. Refer to (AMM TASK 25-22-04-400-801-A/400) or (AMM TASK 25-22-04-400-802-A/400), as applicable.
- (3) For Emergency Light DC/AC Inverters 4 and 5:
 - (a) (PRE-MOD [SB145-25-0325](#)) Install the insulation. Refer to (AMM TASK 25-81-01-400-801-A/400) or (AMM TASK 25-81-01-400-802-A/400), as applicable.
 - (b) Install the headliner panel. Refer to (AMM TASK 25-22-04-400-801-A/400) or (AMM TASK 25-22-04-400-802-A/400), as applicable.
- (4) For Emergency Light DC/AC Inverter 6 and 8:
 - (a) (PRE-MOD [SB145-25-0325](#)) Install the insulation. Refer to (AMM TASK 25-81-01-400-801-A/400) or (AMM TASK 25-81-01-400-802-A/400), as applicable.
 - (b) Install the headliner panel. Refer to (AMM TASK 25-22-04-400-801-A/400) or (AMM TASK 25-22-04-400-802-A/400), as applicable.
- (5) On the circuit breaker panel, close the LIGHTS EMERG circuit breaker and remove the DO-NOT-CLOSE tag from it.
- (6) Do the operational check of the Emergency Lighting System ([AMM TASK 33-50-00-700-801-A/500](#)).

