



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

LH SIDEWALL BALLASTS - REMOVAL/INSTALLATION

EFFECTIVITY: ACFT MODEL(S) EMB-145

1. General

- A. This section gives the procedures to remove and install the LH sidewall ballasts.
- B. 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 |
|--------------------|--|--------------------------|
| 33-21-03-000-801-A | LH SIDEWALL BALLASTS - REMOVAL | ACFT MODEL(S) EMB-145 |
| 33-21-03-400-801-A | LH SIDEWALL BALLASTS - INSTALLA- TION | ACFT MODEL(S) EMB-145 |



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TASK 33-21-03-000-801-A

EFFECTIVITY: ACFT MODEL(S) EMB-145

2. LH SIDEWALL BALLASTS - REMOVAL

A. General

- (1) This task gives the procedures to remove the LH sidewall ballasts.
- (2) The ballasts are installed on the LH PSU supporting structure.

B. References

| REFERENCE | DESIGNATION |
|---------------------------------|-------------|
| AMM TASK 25-26-04-000-801-A/400 | - |

C. Zones and Accesses

Not Applicable

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 | Passenger cabin |

I. Preparation

SUBTASK 841-006-B

- (1) On the RH electrical-power control/distribution box, open these circuit breakers and attach DO-NOT-CLOSE tags to them:
 - CABIN LIGHT 3 (Location tip: RB SERV BUS/CABIN LIGHT 3).
 - CABIN LIGHT 3 (Location tip: RB DC BUS 2/CABIN LIGHT 3).
- (2) Remove the LH wardrobe (AMM TASK 25-26-04-000-801-A/400), if applicable.
- (3) Open the PSU assembly, as applicable.

J. Removal (Figure 401)

SUBTASK 020-006-B

- (1) Disconnect the two electrical connectors (4) (5).



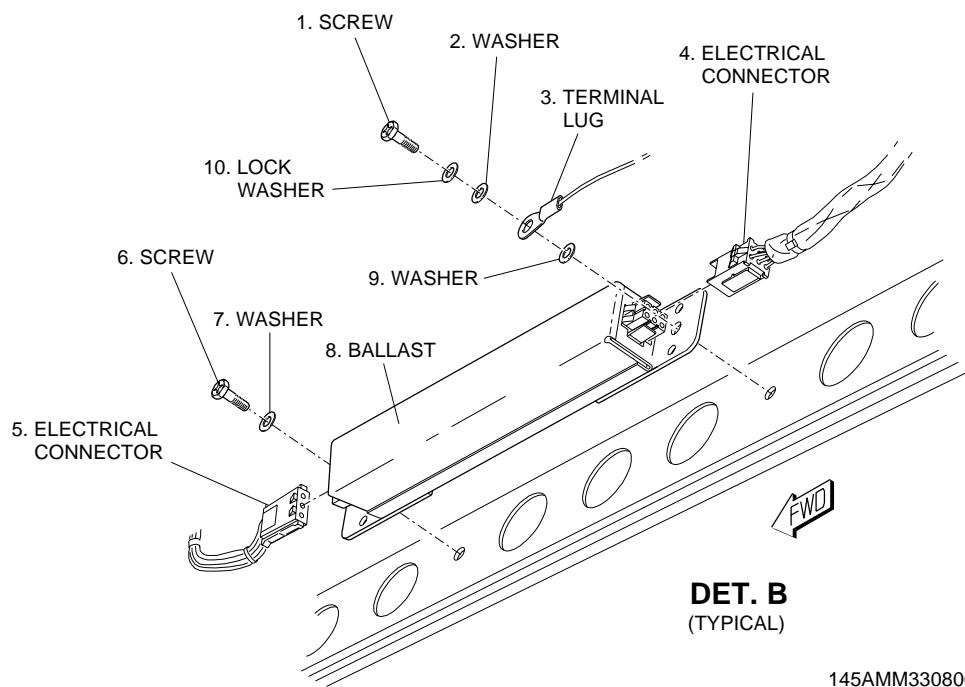
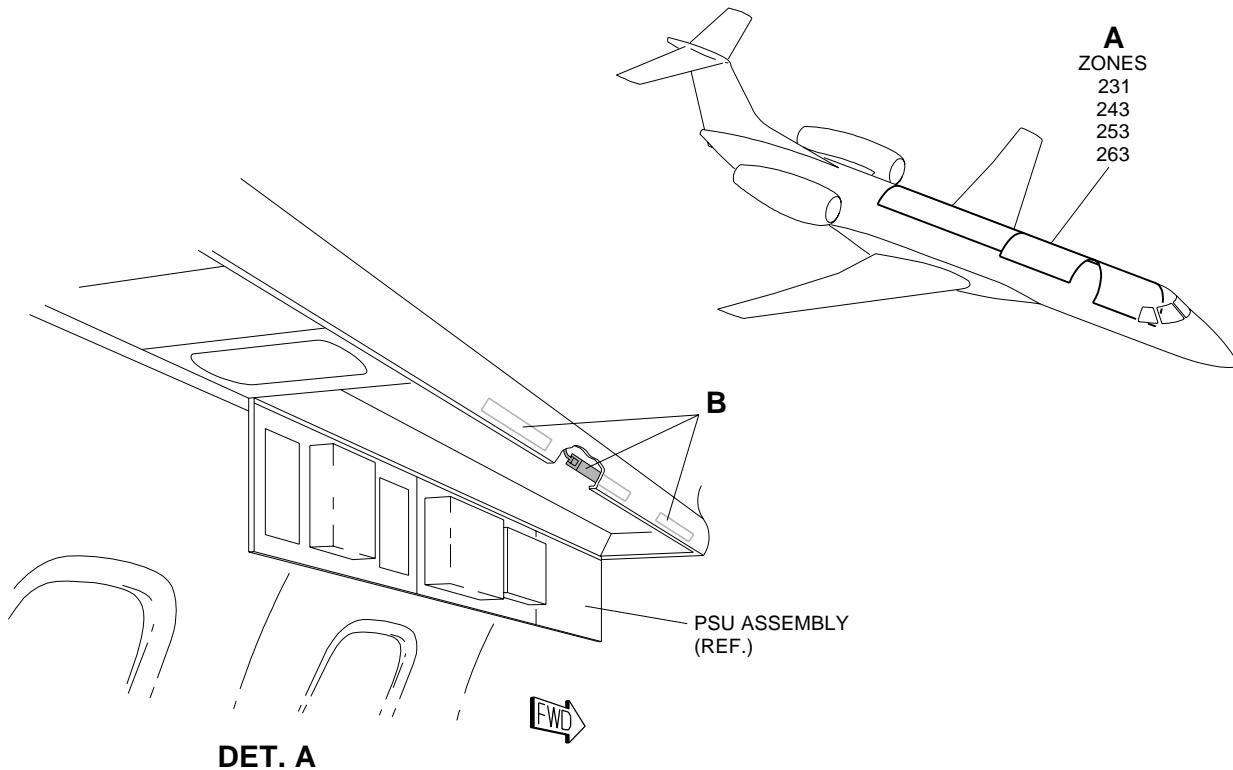
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- (2) Remove the screw (6) and washer (7) that attach the ballast (8) to the PSU support structure.
- (3) Remove the screw (1), lock washer (10), and washers (2) (9) that attach the terminal lug (3) to the ballast (8).
- (4) Remove the ballast (8).

EFFECTIVITY: ACFT MODEL(S) EMB-145

Cabin Light Ballast - Removal/Installation

Figure 401



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TASK 33-21-03-400-801-A

EFFECTIVITY: ACFT MODEL(S) EMB-145

3. LH SIDEWALL BALLASTS - INSTALLATION

A. General

- (1) This task gives the procedures to install the LH sidewall ballasts.
- (2) The ballasts are installed on the LH PSU supporting structure.

B. References

| REFERENCE | DESIGNATION |
|---------------------------------|---|
| AMM TASK 20-13-21-700-801-A/200 | ELECTRICAL BONDING TEST - STANDARD PROCEDURES |
| AMM TASK 20-13-21-910-801-A/200 | TYPES OF ELECTRICAL BONDING AND SURFACE PREPARATION - STANDARD PROCEDURES |
| AMM TASK 20-13-21-910-802-A/200 | ELECTRICAL BONDING PROTECTION - STANDARD PROCEDURES |
| AMM TASK 25-26-04-400-801-A/400 | - |
| AMM TASK 33-21-00-700-801-A/500 | PASSENGER CABIN LIGHTS - OPERATIONAL TEST |

C. Zones and Accesses

Not Applicable

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 | Passenger cabin |

I. Installation (Figure 401)

SUBTASK 420-006-B

- (1) Do the bonding procedure, method 3 ([AMM TASK 20-13-21-910-801-A/200](#)).
- (2) Put the ballast (8) in position.
- (3) Tighten the screw (6) and washer (7) that attach the ballast (8) to the PSU supporting structure.



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- (4) Connect the terminal lug (3) to the ballast with the screw (1), lock washer (10), and washers (2) (9).
- (5) Tighten the screw (1), lock washer (10), and washers (2) (9) that attach the terminal lug to the ballast.
- (6) Do the bonding test ([AMM TASK 20-13-21-700-801-A/200](#)).
- (7) Do the bonding protection ([AMM TASK 20-13-21-910-802-A/200](#)).
- (8) Connect the two electrical connectors (4) (5) to the ballast (8).

J. Follow-on

SUBTASK 842-006-B

- (1) On the RH electrical-power control/distribution box, remove the DO-NOT-CLOSE tags from these circuit breakers and close them:
 - CABIN LIGHT 3 (Location tip: RB SERV BUS/CABIN LIGHT 3).
 - CABIN LIGHT 3 (Location tip: RB DC BUS 2/CABIN LIGHT 3).
- (2) Close the PSU assembly, as applicable.
- (3) Install the LH wardrobe (AMM TASK 25-26-04-400-801-A/400), if applicable.
- (4) Do the cabin-light operational test ([AMM TASK 33-21-00-700-801-A/500](#)).