



## AIRCRAFT MAINTENANCE MANUAL

### CEILING BALLASTS - REMOVAL/INSTALLATION

EFFECTIVITY: ACFT MODEL(S) EMB-145

#### 1. General

- A. This section gives the procedures to remove and install the ceiling 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
33-21-05-000-801-A	CEILING BALLASTS - REMOVAL	ACFT MODEL(S) EMB-145
33-21-05-400-801-A	CEILING BALLASTS - INSTALLATION	ACFT MODEL(S) EMB-145



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TASK 33-21-05-000-801-A

EFFECTIVITY: ACFT MODEL(S) EMB-145

2. CEILING BALLASTS - REMOVAL

A. General

- (1) This task gives the procedures to remove the ceiling 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 LH electrical-power control/distribution box, open these circuit breakers and attach DO-NOT-CLOSE tags to them:
  - CABIN LIGHT 1 (Location tip: RB SERV BUS/CABIN LIGHT 1).
  - CABIN LIGHT 1 (Location tip: RB DC BUS 2/CABIN LIGHT 1).
- (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).



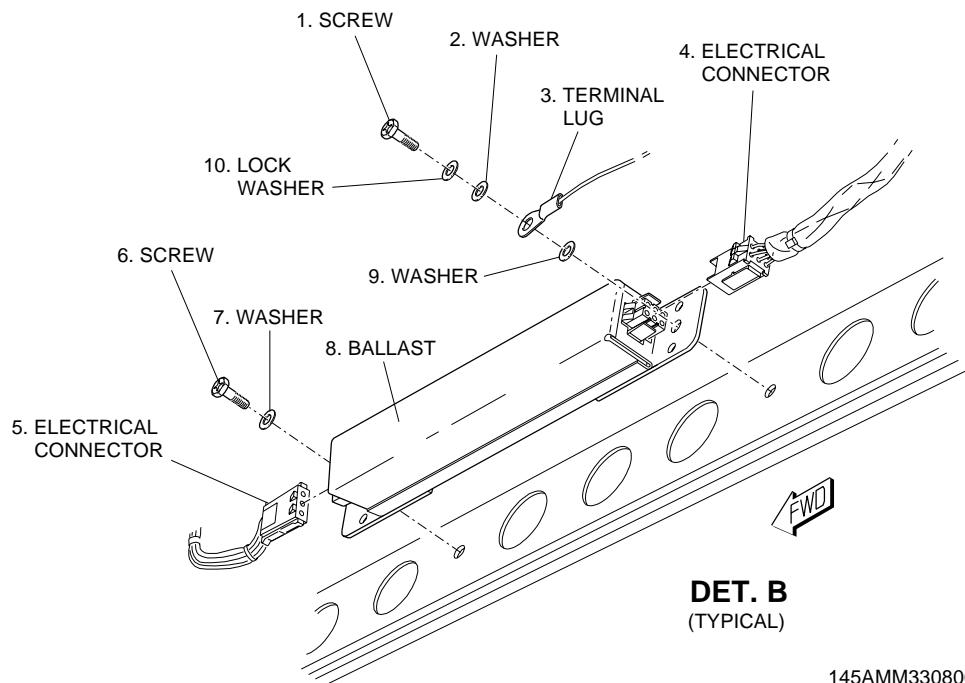
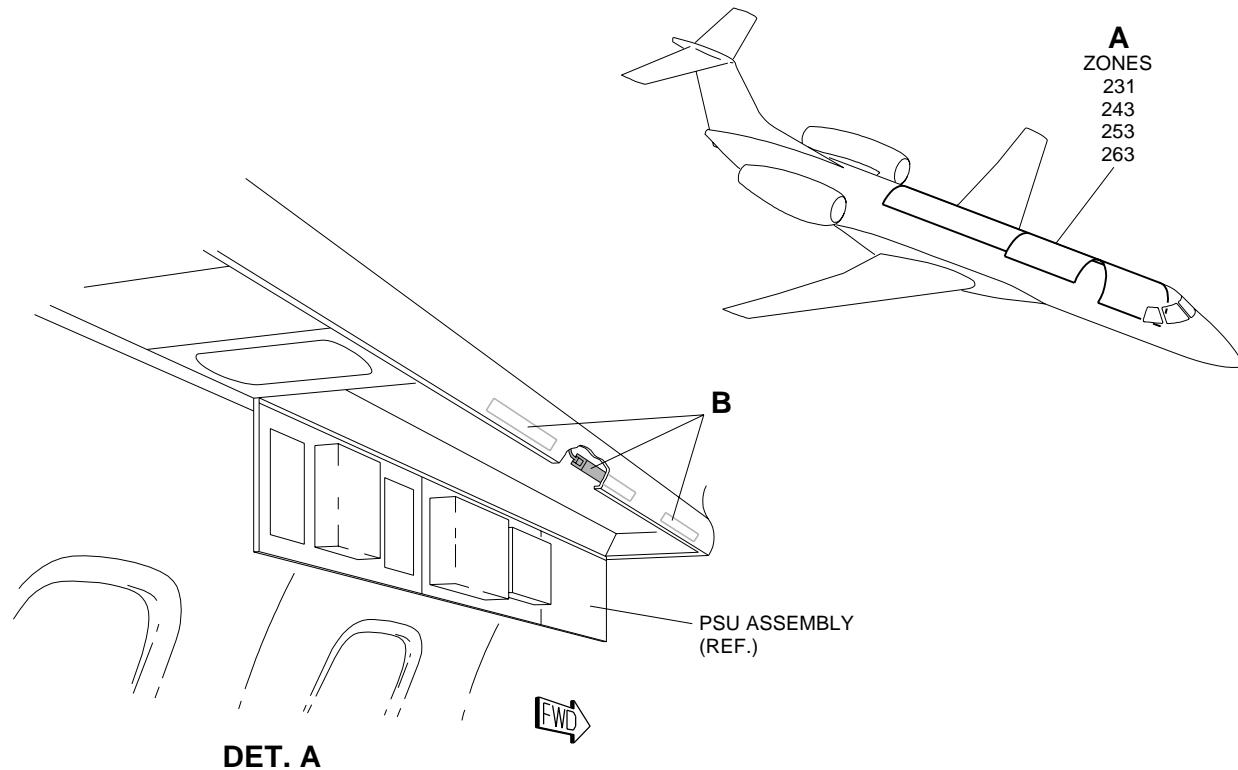
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- (2) Remove the screw (6) and washer (7) that attach the ballast (8) to the PSU support structure.
- (3) Remove the screw (1), lock washer (10), and washers (2) (9) that attach the terminal lug (3) to the ballast (8).
- (4) Remove the ballast (8).

**EFFECTIVITY: ACFT MODEL(S) EMB-145**

Cabin Light Ballast - Removal/Installation

Figure 401



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TASK 33-21-05-400-801-A

EFFECTIVITY: ACFT MODEL(S) EMB-145

3. CEILING BALLASTS - INSTALLATION

A. General

- (1) This task gives the procedures to install the ceiling 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 25-26-04-000-801-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 LH electrical-power control/distribution box, remove the DO-NOT-CLOSE tags from these circuit breakers and close them:
  - CABIN LIGHT 1 (Location tip: RB SERV BUS/CABIN LIGHT 1).
  - CABIN LIGHT 1 (Location tip: RB DC BUS 2/CABIN LIGHT 1).
- (2) Close the PSU assembly, as applicable.
- (3) Install the LH wardrobe (AMM TASK 25-26-04-000-801-A/400), if applicable.
- (4) Do the cabin-light operational test ([AMM TASK 33-21-00-700-801-A/500](#)).