



EMB145 - EMB135

AIRCRAFT  
MAINTENANCE MANUAL

RH SIDEWALL BALLASTS - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install the RH 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
33-21-04-000-801-A	RH SIDEWALL BALLASTS - REMOVAL	ALL
33-21-04-400-801-A	RH SIDEWALL BALLASTS - INSTALLATION	ALL



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TASK 33-21-04-000-801-A

EFFECTIVITY: ALL

2. RH SIDEWALL BALLASTS - REMOVAL

A. General

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

B. Zones and Accesses

Not Applicable

C. Tools and Equipment

Not Applicable

D. Auxiliary Items

Not Applicable

E. Consumable Materials

Not Applicable

F. Expandable Parts

Not Applicable

G. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Passenger cabin

H. Preparation

SUBTASK 841-002-A

- (1) On the RH electrical-power control/distribution box, open these circuit breakers and attach DO-NOT-CLOSE tags to them:
  - CABIN LIGHT 2 (Location tip: RB SERV BUS/CABIN LIGHT 2).
  - CABIN LIGHT 2 (Location tip: RB DC BUS 2/CABIN LIGHT 2).
- (2) Open the lower cover assembly, as applicable.

I. Removal (Figure 401)

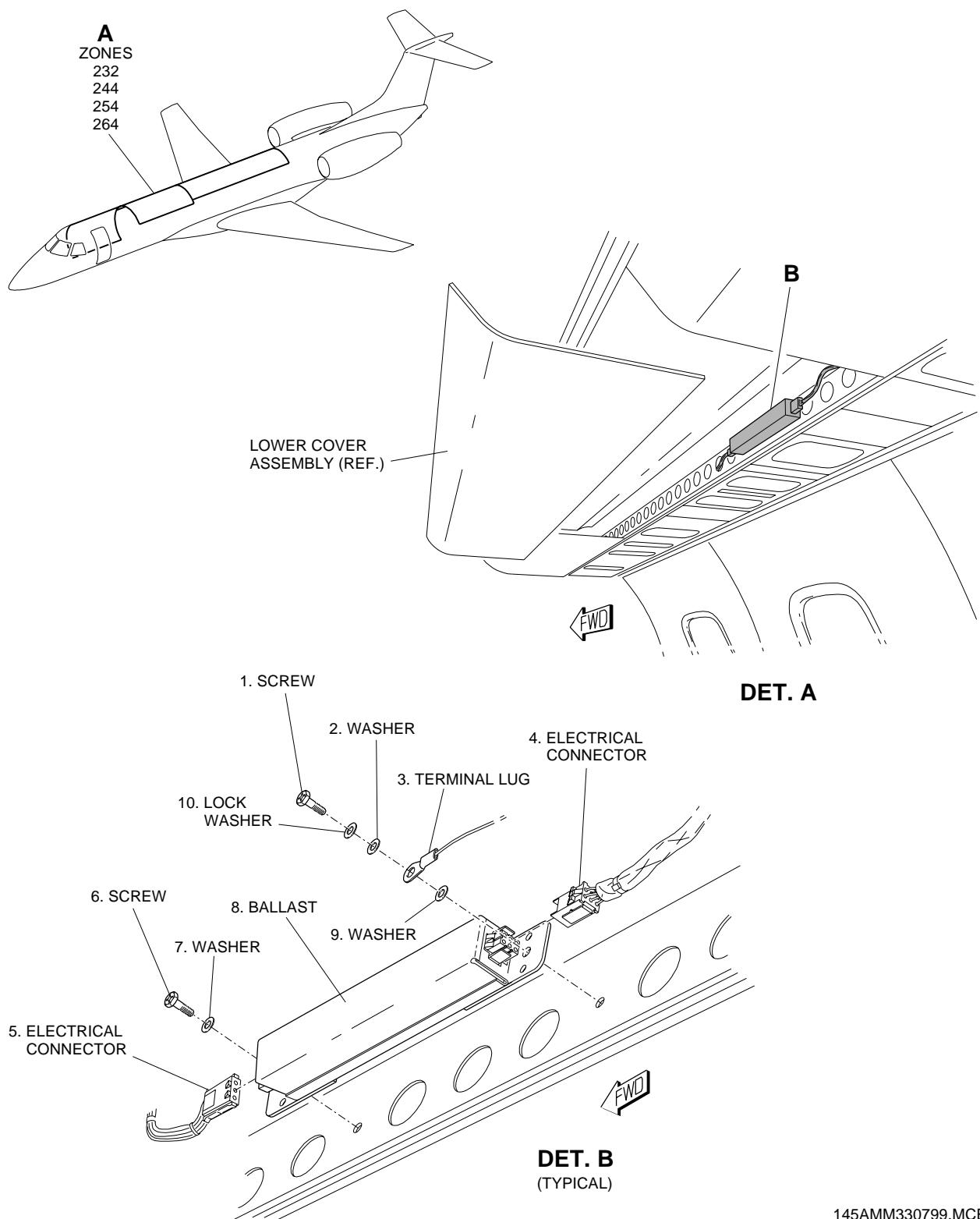
SUBTASK 020-002-A

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

Cabin Light Ballast - Removal/Installation

Figure 401



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TASK 33-21-04-400-801-A

EFFECTIVITY: ALL

3. RH SIDEWALL BALLASTS - INSTALLATION

A. General

- (1) This task gives the procedures to install the RH sidewall ballasts.
- (2) The ballasts are installed on the RH 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 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 420-002-A

- (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 842-002-A

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

