



EMB145 – EMB135

AIRCRAFT
MAINTENANCE MANUAL

PASSENGER LOUDSPEAKERS - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

1. General

- A. This section gives the procedures to remove and install:
- The loudspeakers in the PSUs;
 - The loudspeaker in the service-door region ceiling;
 - The loudspeaker over the attendant seat.
- B. To remove and install the lavatory loudspeaker, refer to [AMM TASK 23-33-01-000-801-A/400](#) and [AMM TASK 23-33-01-400-801-A/400](#), respectively.
- 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
23-31-04-000-801-A	PASSENGER LOUDSPEAKER - REMOV- AL	ALL
23-31-04-400-801-A	PASSENGER LOUDSPEAKER - INSTAL- LATION	ALL



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TASK 23-31-04-000-801-A

EFFECTIVITY: ALL

2. PASSENGER LOUDSPEAKER - REMOVAL

A. General

(1) This procedure gives the instructions to remove:

- The loudspeakers in the PSUs;
- The loudspeaker in the ceiling at the service door region;
- The loudspeaker over the attendant seat.

B. References

REFERENCE	DESIGNATION
AMM TASK 25-21-02-000-801-A/400	FLIGHT ATTENDANT SEAT - REMOVAL
AMM TASK 25-22-04-000-801-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 841-002-A

- (1) On the circuit breaker panel, open the PA circuit breaker and attach a DO-NOT-CLOSE tag to it.

J. Removal

SUBTASK 020-002-A

- (1) To remove the loudspeakers of the PSUs, do as follows ([Figure 401](#)):

NOTE: These steps are applicable to all PSUs.

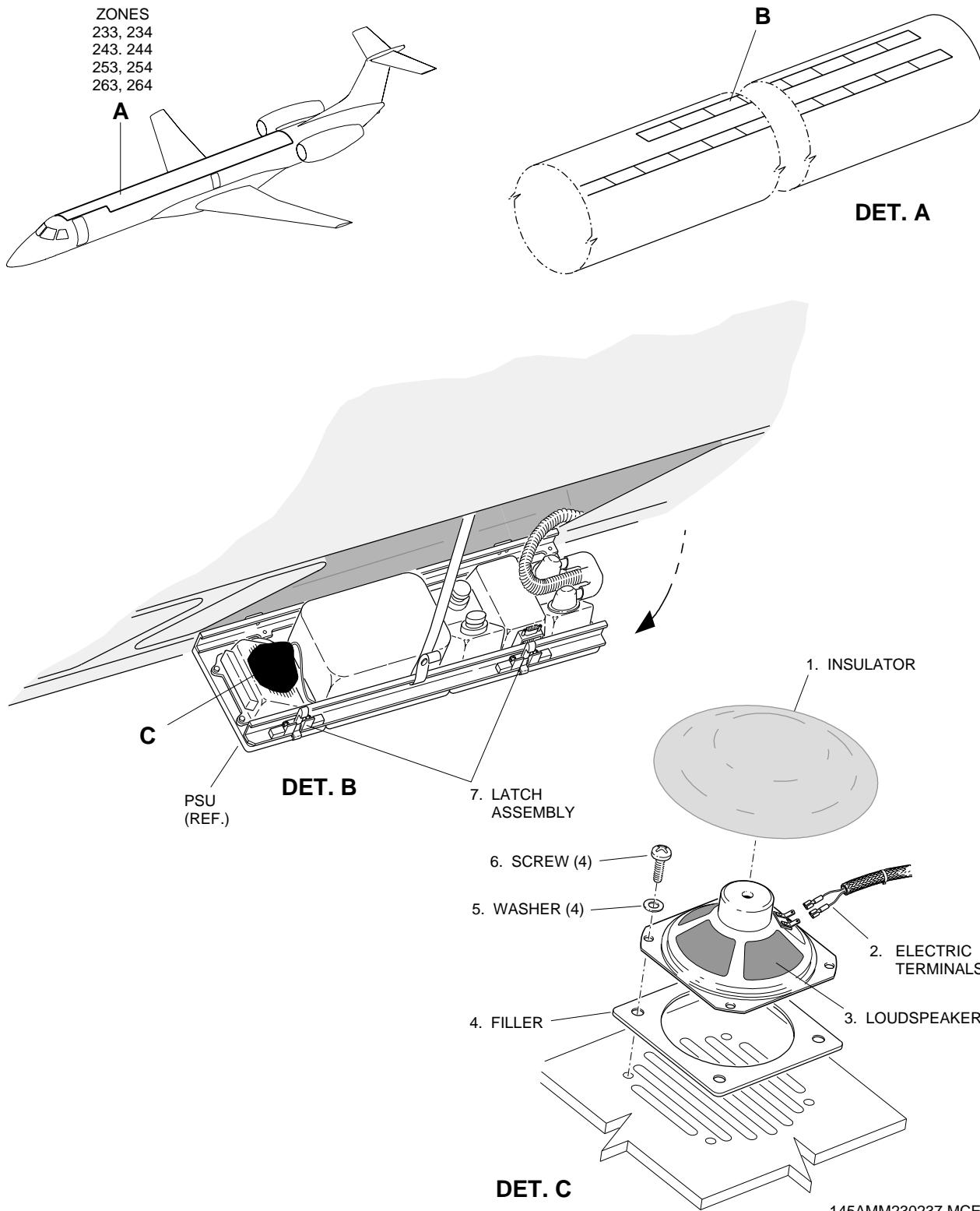
- (a) Push the latch assembly (7) to open the PSU.
 - (b) Carefully remove the loudspeaker insulator (1).
 - (c) Carefully disconnect the electric terminals (2).
 - (d) Remove the screws (6) and washers (5).

NOTE: When you remove the loudspeaker (3), be careful not to drop the loudspeaker filler (4).
 - (e) Remove the loudspeaker (3).
- (2) To remove the loudspeaker in the service-door region ceiling, do as follows ([Figure 402](#)):
 - (a) Remove the service-door region ceiling panel (AMM TASK 25-22-04-000-801-A/400).
 - (b) Carefully remove the loudspeaker insulator (6).
 - (c) Carefully disconnect the electric terminals (1).
 - (d) Remove the screws (5) and washers (4).

NOTE: When you remove the loudspeaker (2), be careful not to drop the loudspeaker grill (3).
 - (e) Remove the loudspeaker (2).
 - (3) To remove the loudspeaker over the attendant seat, do as follows ([Figure 403](#)):
 - (a) Remove the shroud assembly ([AMM TASK 25-21-02-000-801-A/400](#)).
 - (b) Remove the screws (5), washers (4), nuts (2).

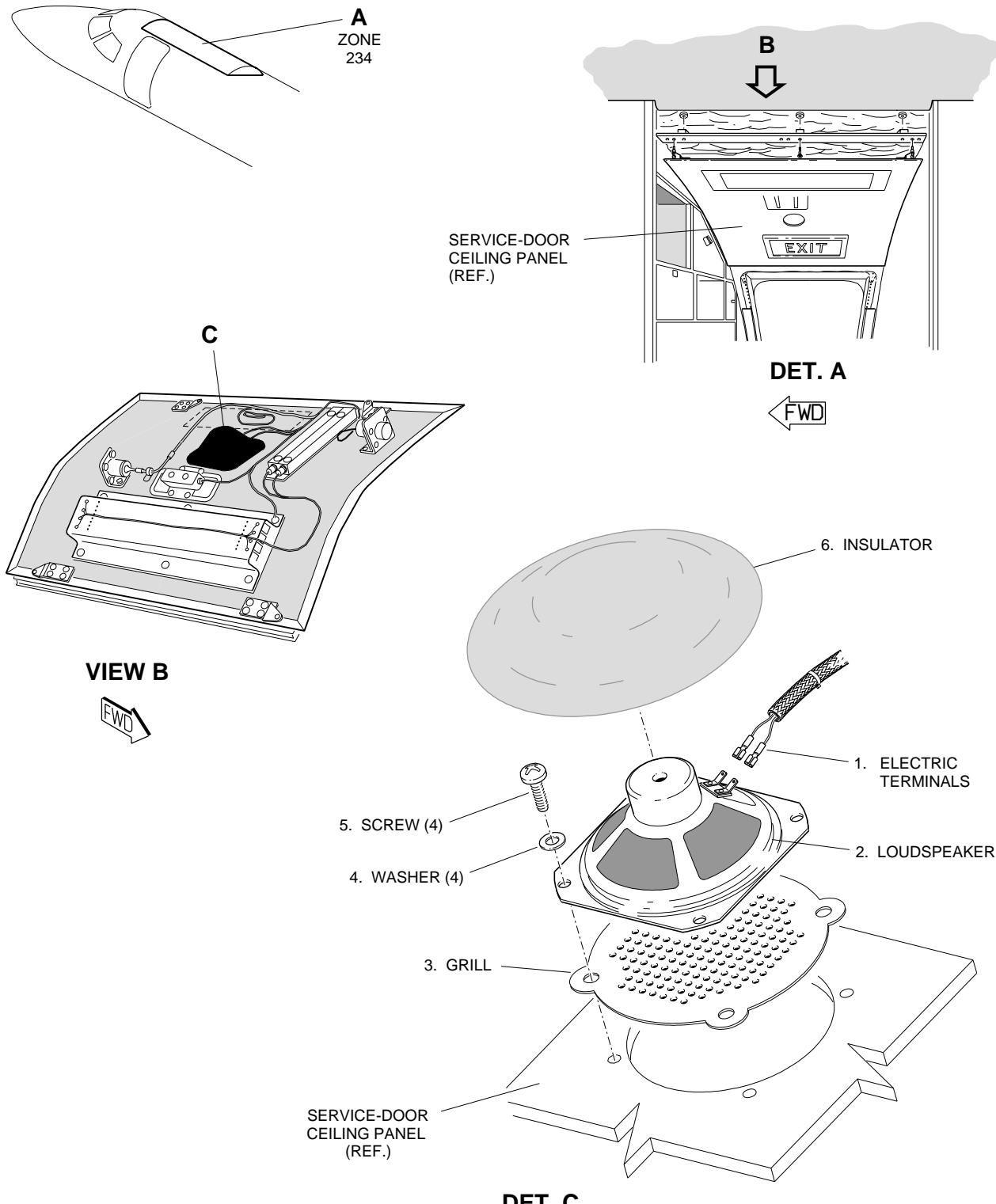
NOTE: When you remove the loudspeaker (1), be careful not to drop the loudspeaker grill (3).
 - (c) Remove the loudspeaker (1).

EFFECTIVITY: ALL
PSU Loudspeakers
Figure 401



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EFFECTIVITY: ALL
 Ceiling Panel Loudspeaker
 Figure 402

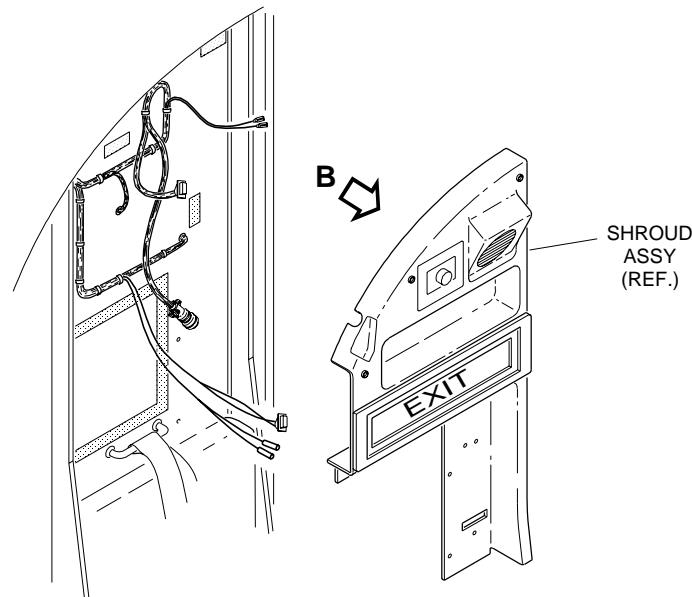
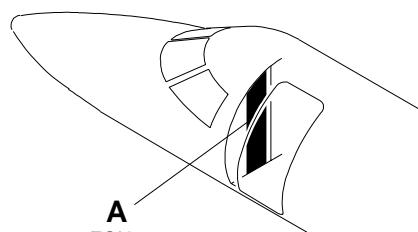


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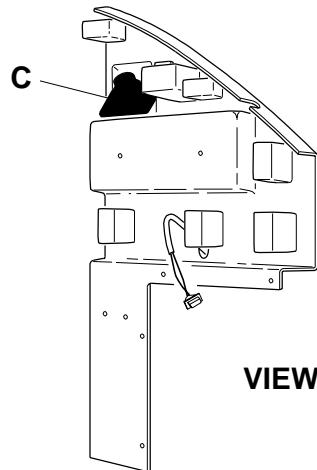
EFFECTIVITY: ALL

Loudspeaker Over the Attendant Seat

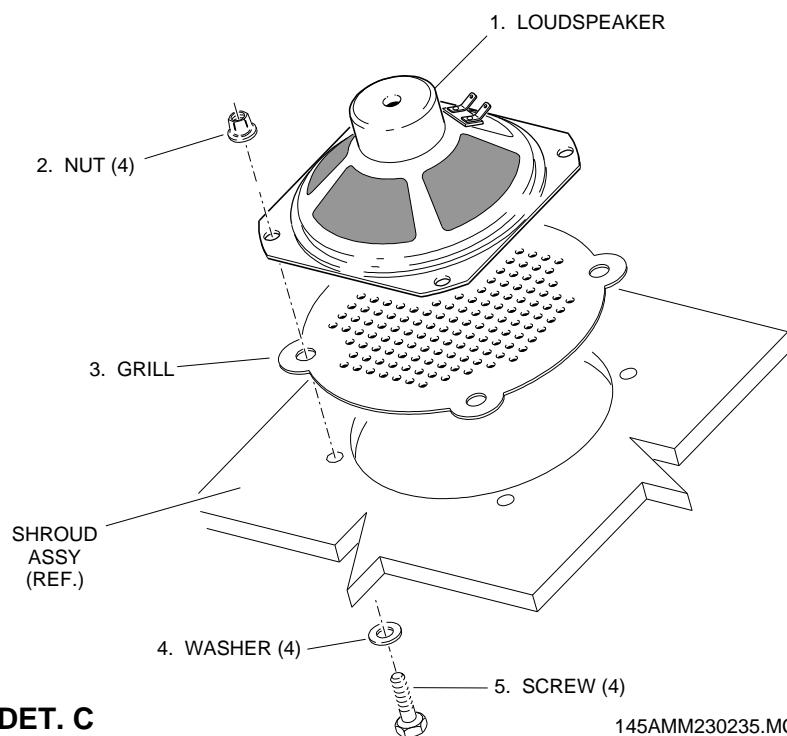
Figure 403



DET. A

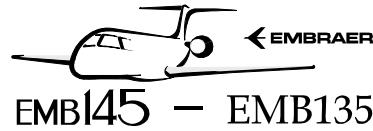


VIEW B



DET. C

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TASK 23-31-04-400-801-A

EFFECTIVITY: ALL

3. PASSENGER LOUDSPEAKER - INSTALLATION

A. General

(1) This procedure gives the instructions to install:

- The loudspeakers in the PSUs;
- The loudspeaker in the ceiling at the service door region;
- The loudspeaker over the attendant seat.

B. References

REFERENCE	DESIGNATION
AMM TASK 23-31-00-700-803-A/500	PASSENGER CABIN LOUDSPEAKER - OPERATIONAL CHECK
AMM TASK 25-21-02-400-801-A/400	FLIGHT ATTENDANT SEAT - INSTALLATION
AMM TASK 25-22-04-400-801-A/400	-

C. Zones and Accesses

Not Applicable

D. Tools and Equipment

Not Applicable

E. Auxiliary Items

Not Applicable

F. Consumable Materials

SPECIFICATION (BRAND)	DESCRIPTION	QTY
	3M Fast Bond X-30	AR

G. Expandable Parts

Not Applicable

H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Passenger cabin

I. Installation

SUBTASK 420-002-A

(1) To install the loudspeakers of the PSUs, do as follows (Figure 401):

- (a) Put the loudspeaker filler (4) in position.

- (b) Put the loudspeaker (3) in position.
 - (c) Install the screws (6) and washers (5).
 - (d) Carefully connect the electric terminals (2).
 - (e) Carefully apply the 3M Fast Bond X-30 to the loudspeaker insulator (1).
 - (f) Install the loudspeaker insulator (1).
 - (g) Close the PSU.
- (2) To install the loudspeaker in the ceiling at the service door region, do as follows (Figure 402):
- (a) Put the loudspeaker grill (3) in position.
 - (b) Put the loudspeaker (2) in position.
 - (c) Install the screws (5) and washers (4).
 - (d) Carefully connect the electric terminals (1).
 - (e) Carefully apply the 3M Fast Bond X-30 to the loudspeaker insulator (6).
 - (f) Install the loudspeaker insulator (6).
 - (g) Install the service-door region ceiling panel (AMM TASK 25-22-04-400-801-A/400).
- (3) To install the loudspeaker over the attendant seat, do as follows (Figure 403):
- (a) Put the loudspeaker grill (3) in position.
 - (b) Put the loudspeaker (1) in position.
 - (c) Install the screws (5), washers (4) and nuts (2).
 - (d) Install the shroud assembly ([AMM TASK 25-21-02-400-801-A/400](#)).

J. Follow-on

SUBTASK 842-002-A

- (1) On the circuit breaker panel, close the PA circuit breaker and remove the DO-NOT-CLOSE tag from it.
- (2) Do the Passenger-Cabin Loudspeaker Operational Check ([AMM TASK 23-31-00-700-803-A/500](#)).